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**Product Approval**  
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FL #	FL16730-R30
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	GAF
Address/Phone/Email	1 Campus Drive Parispany, NJ 07054 (800) 766-3411 mstieh@gaf.com
Authorized Signature	Robert Nieminen Ireith@nemoetc.com
Technical Representative	William Broussard
Address/Phone/Email	1 Campus Drive Parsippany, NJ 07054 (800) 766-3411 TechnicalQuestionsGAF@gaf.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Single Ply Roof Systems
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen
Florida License	PE-59166
Quality Assurance Entity	UL LLC
Quality Assurance Contract Expiration Date	12/17/2021
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received

Certificate of Independence [FL16730\\_R30\\_COI\\_2020\\_01\\_COI\\_NIEMINEN.pdf](#)

Referenced Standard and Year (of Standard)	<b>Standard</b>	<b>Year</b>
	ASTM D2178	2015
	ASTM D4601	2012
	ASTM D4897	2009
	ASTM D5602	2018
	ASTM D5635	2018
	ASTM D6163	2015
	ASTM D6164	2011
	ASTM D6878	2013
	TAS 114	2011

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 10/22/2020  
Date Validated 10/25/2020  
Date Pending FBC Approval 10/28/2020  
Date Approved 12/15/2020

**Summary of Products**

FL #	Model, Number or Name	Description
16730.1	EverGuard TPO Single Ply Roof Systems	Thermoplastic polyolefin single ply roof systems
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> No <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +N/A/-502.5 <b>Other:</b> 1.) The design pressure herein pertains to one system. Refer to ER Appendix for all systems and maximum design pressures. 2.) Refer to ER Section 5 for Limits of Use.		<b>Installation Instructions</b> <a href="#">FL16730_R30_II_2020_10_15_FINAL_A1_ER_FL16730-R30.pdf</a> Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL16730_R30_AE_2020_10_15_FINAL_ER_FL16730-R30.pdf</a> Created by Independent Third Party: Yes

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**NEMO|etc.**

Certificate of Authorization #32455  
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**EVALUATION REPORT**

**GAF**

1 Campus Drive  
Parsippany, NJ 07054  
**(800) 766-3411**

**Evaluation Report 01506.12.13-1-R31  
FL16730-R30**

**Date of Issuance: 12/17/2013  
Revision 31: 10/15/2020**

**SCOPE:**

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **7<sup>th</sup> Edition (2020) Florida Building Code, High Velocity Hurricane Zone (HVHZ)** sections noted herein.

**DESCRIPTION: EverGuard® TPO Single-Ply Roof Membrane Systems**

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 6, plus a 118-page Appendix.

**Prepared by:**



**Robert J.M. Nieminen, P.E.**

Florida Registration No. 59166, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/15/2020. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

**ROOFING SYSTEMS EVALUATION:**
**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Single Ply Roof Systems  
**Compliance Statement:** EverGuard® TPO Single-Ply Roof Membrane Systems, as produced by GAF, have demonstrated compliance with the following sections of the 7<sup>th</sup> Edition (2020) Florida Building Code, HVHZ through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

Section	Property	Standard	Year
TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9	2011
TAS 110	Wind resistance	TAS 114, Appendix C, D or J	2011
TAS 110	Susceptibility to Hail Damage	TAS 114, Appendix F	2011
TAS 110	Susceptibility to Leakage	TAS 114, Appendix G	2011
TAS 110	Material standard	ASTM D2178	2015
TAS 110	Material standard	ASTM D4601	2012
TAS 110	Material standard	ASTM D4897	2009
TAS 110	Static puncture resistance	ASTM D5602	2018
TAS 110	Dynamic puncture resistance	ASTM D5635	2018
TAS 110	Material standard	ASTM D6163	2015
TAS 110	Material standard	ASTM D6164	2011
TAS 110	Material standard	ASTM D6878	2013

**3. REFERENCES:**

Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
ACRC (TST4671)	TAS 114	06-035	10/18/2006	FM App (TST1867)	FM 4474	3047636 - LTR	06/24/2015
ACRC (TST4671)	TAS 114	07-005	01/17/2007	FM App (TST1867)	FM 4474	RR202913	11/19/2015
ACRC (TST4671)	TAS 114	07-024	03/01/2007	FM App (TST1867)	FM 4474	3053501	01/14/2016
ACRC (TST4671)	TAS 114	07-016	04/19/2007	FM App (TST1867)	FM 4474	3056207 (released)	02/09/2016
ACRC (TST4671)	TAS 114	07-017	04/19/2007	FM App (TST1867)	FM 4474	3055167	02/10/2016
ACRC (TST4671)	TAS 114	07-025	05/02/2007	FM App (TST1867)	FM 4474	RR204005	04/13/2016
ACRC (TST4671)	TAS 114	07-026	05/03/2007	FM App (TST1867)	FM 4474	RR205159	05/05/2016
ACRC (TST4671)	TAS 114	07-027	05/04/2007	FM App (TST1867)	FM 4474	RR205192	05/09/2016
ACRC (TST4671)	TAS 114	07-042	08/31/2007	FM App (TST1867)	FM 4474	RR205233	06/15/2016
ACRC (TST4671)	TAS 114	07-043	09/05/2007	FM App (TST1867)	FM 4474	RR205846	07/21/2016
ACRC (TST4671)	TAS 114	07-045	09/06/2007	FM App (TST1867)	FM 4474	RR205474	08/31/2016
ACRC (TST4671)	TAS 114	07-046	09/06/2007	FM App (TST1867)	FM 4474	RR206198	09/01/2016
ACRC (TST4671)	TAS 114	07-048	09/07/2007	FM App (TST1867)	FM 4474	RR206353	09/07/2016
ACRC (TST4671)	TAS 114	07-049	09/10/2007	FM App (TST1867)	FM 4474	RR206620	09/12/2016
ACRC (TST4671)	TAS 114	07-080	01/03/2008	FM App (TST1867)	FM 4474	RR206351	10/21/2016
ACRC (TST4671)	TAS 114	08-022	04/17/2008	FM App (TST1867)	FM 4474	3055491	12/05/2016
ACRC (TST4671)	TAS 114	08-030	04/05/2008	FM App (TST1867)	FM 4474	3058483	12/09/2016
ACRC (TST4671)	TAS 114	08-023	04/17/2008	FM App (TST1867)	FM 4474	3056728 LTR	12/23/2016
ACRC (TST4671)	TAS 114	08-033	04/19/2008	FM App (TST1867)	FM 4470	3056822 LTR	01/04/2017
ACRC (TST4671)	TAS 114	08-032	04/19/2008	FM App (TST1867)	FM 4474	RR208456	02/13/2017
ACRC (TST4671)	TAS 114	11-004	03/21/2011	FM App (TST1867)	FM 4474	3061218	05/10/2017
ACRC (TST4671)	TAS 114	11-011	03/24/2011	FM App (TST1867)	FM 4474	3061218 LTR	05/16/2017
ACRC (TST4671)	TAS 114	11-012	04/06/2011	FM App (TST1867)	FM 4474	RR209927	06/23/2017
ACRC (TST4671)	TAS 114	11-013	04/06/2011	FM App (TST1867)	FM 4474	RR210305	07/13/2017
ACRC (TST4671)	TAS 114	11-019	04/08/2011	FM App (TST1867)	FM 4474	RR213506	03/28/2018
ACRC (TST4671)	TAS 114	11-020	04/08/2011	FM App (TST1867)	FM 4474	RR212730	04/05/2018
ACRC (TST4671)	TAS 114	11-021	04/11/2011	FM App (TST1867)	FM 4474	PR449797	04/24/2018
ACRC (TST4671)	TAS 114	11-040	08/05/2011	FM App (TST1867)	FM 4474	RR213333	04/25/2018
ACRC (TST4671)	TAS 114	11-041	08/05/2011	FM App (TST1867)	FM 4474	3056933	07/19/2018
ACRC (TST4671)	TAS 114	11-056	09/30/2011	FM App (TST1867)	FM 4474	3061784	07/25/2018
ACRC (TST4671)	TAS 114	12-008	04/10/2012	FM App (TST1867)	FM 4474	RR215107-267	09/27/2018
ACRC (TST4671)	TAS 114	12-012	04/23/2012	FM App (TST1867)	FM 4474	3055904	10/25/2018
ACRC (TST4671)	TAS 114	12-013	04/23/2012	FM App (TST1867)	FM 4474	RR215191-267	11/07/2018
ACRC (TST4671)	TAS 114	12-014	04/23/2012	FM App (TST1867)	FM 4474	RR215193-267	11/08/2018
ACRC (TST4671)	TAS 114	12-016	04/24/2012	FM App (TST1867)	FM 4474	RR217564-267	02/05/2019
ACRC (TST4671)	TAS 114	12-019	04/25/2012	FM App (TST1867)	FM 4474	PR453601-R1	11/15/2019
ACRC (TST4671)	TAS 114	12-024	05/09/2012	FM App (TST1867)	Criticality	PR452423	02/06/2020



Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
ACRC (TST4671)	TAS 114	12-025	05/09/2012	FM App (TST1867)	FM 4474	RR221253-267	02/07/2020
ACRC (TST4671)	TAS 114	12-029	05/23/2012	FM App (TST1867)	Criticality	PR452971	02/19/2020
ACRC (TST4671)	TAS 114	12-030	05/23/2012	FM App (TST1867)	FM 4474	RR222755-267	03/10/2020
ACRC (TST4671)	TAS 114	11-042-R1	01/27/2012	FM App (TST1867)	FM 4474	PR450754	04/03/2020
ACRC (TST4671)	TAS 114	12-033	08/10/2012	Intertek (TST1558)	TAS 114	G9819.01-109-44	08/15/2017
ACRC (TST4671)	TAS 114	12-036	08/13/2012	IRT (TST7408)	TAS 114	02-008	01/18/2002
ACRC (TST4671)	TAS 114	12-018-R1	01/30/2013	IRT (TST7408)	TAS 114	03-0728	02/17/2004
ACRC (TST4671)	TAS 114	08-022-R1	01/15/2015	IRT (TST7408)	TAS 114	04-012	02/18/2004
ACRC (TST4671)	TAS 114	11-056-R2	01/23/2015	IRT (TST7408)	TAS 114	04-019	04/26/2004
ACRC (TST4671)	TAS 114	16-002	03/04/2016	NEMO (TST6049)	TAS 114	SC16825.12.17-3A	01/01/2018
ATI (TST1558)	TAS 114	H-3320.01-109-44	08/10/2017	NEMO (TST6049)	Physicals	4q-GAF-19-SSMBB-03.A	05/13/2019
ATI (TST1558)	TAS 114	H-3314.01-109-44	08/14/2017	PRI (TST5878)	ASTM C1289	GAF-373-02-01	10/15/2012
ATI (TST1558)	TAS 114	H-3315.01-109-44	08/14/2017	PRI (TST5878)	TAS 114	GAF-043-02-03	09/16/2013
ATI (TST1558)	TAS 114	H-3317.01-109-44	08/14/2017	PRI (TST5878)	TAS 114	GAF-043-02-04	09/16/2013
ATI (TST1558)	TAS 114	H-3318.01-109-44	08/14/2017	PRI (TST5878)	ASTM D6878	GAF-421-02-01	10/22/2013
ATI (TST1558)	TAS 114	H-0730.01-109-44	08/16/2017	PRI (TST5878)	ASTM D6878	GAF-422-02-01	10/22/2013
ERD (TST6049)	TAS 114	SC8580.11.15-4	11/09/2015	PRI (TST5878)	ASTM D6878	GAF-424-02-01	11/11/2013
ERD (TST6049)	TAS 114	SC8580.11.15-2	11/18/2015	PRI (TST5878)	ASTM D6878	GAF-425-02-01	11/11/2013
ERD (TST6049)	Criticality	SC16505.17	09/22/2017	PRI (TST5878)	Criticality	GAF-462-02-02	11/18/2013
ERD (TST6049)	TAS 114	SC16825.12.17-1	12/31/2017	PRI (TST5878)	TAS 114	GAF-457-02-02	01/20/2014
ERD (TST6049)	TAS 114	SC16825.12.17-3B	12/31/2017	PRI (TST5878)	TAS 114	GAF-457-02-04	01/24/2014
F-TEC (TST7393)	TAS 114	08-050183	06/26/2008	PRI (TST5878)	TAS 114	GAF-457-02-06	01/24/2014
F-TEC (TST7393)	TAS 114	08-050184	06/26/2008	PRI (TST5878)	TAS 114	GAF-457-02-07	01/24/2014
F-TEC (TST7393)	TAS 114	08-070133	08/04/2008	PRI (TST5878)	TAS 114	GAF-457-02-08	01/24/2014
F-TEC (TST7393)	TAS 114	08-050185	10/14/2008	PRI (TST5878)	ASTM D6878	GAF-426-02-01	01/27/2014
F-TEC (TST7393)	TAS 114	08-072805	02/16/2009	PRI (TST5878)	Rupture	GAF-435-02-01	01/29/2014
FM App (TST1867)	FM 4470	3003617	12/20/1999	PRI (TST5878)	TAS 114	GAF-435-02-07	01/29/2014
FM App (TST1867)	FM 4470	3009026	06/18/2002	PRI (TST5878)	TAS 114	GAF-435-02-08	01/29/2014
FM App (TST1867)	FM 4470	3013861	03/28/2003	PRI (TST5878)	TAS 114	GAF-435-02-09	01/29/2014
FM App (TST1867)	FM 4470	3014692	08/05/2003	PRI (TST5878)	TAS 114	GAF-435-02-10	01/29/2014
FM App (TST1867)	FM 4470	3014955	01/22/2004	PRI (TST5878)	TAS 114	GAF-435-02-11	01/29/2014
FM App (TST1867)	FM 4470	3012721	02/11/2004	PRI (TST5878)	TAS 114	GAF-506-02-06	03/06/2014
FM App (TST1867)	FM 4470	3015029	02/19/2004	PRI (TST5878)	TAS 114	GAF-506-02-08	03/06/2014
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FM App (TST1867)	FM 4470	3020588	03/24/2004	PRI (TST5878)	TAS 114	GAF-510-02-02	04/08/2014
FM App (TST1867)	FM 4470	3019881	03/20/2004	PRI (TST5878)	TAS 114	GAF-510-02-04	04/08/2014
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FM App (TST1867)	FM 4470	3022136	03/17/2005	PRI (TST5878)	TAS 114	GAF-506-02-13	04/14/2014
FM App (TST1867)	FM 4470	3020681	09/01/2005	PRI (TST5878)	TAS 114	GAF-506-02-14	04/14/2014
FM App (TST1867)	FM 4470	3024051	03/28/2006	PRI (TST5878)	TAS 114	GAF-506-02-01	04/22/2014
FM App (TST1867)	FM 4470	797-02093-267	04/26/2006	PRI (TST5878)	TAS 114	GAF-514-02-01	05/12/2014
FM App (TST1867)	FM 4470	3023458	07/18/2006	PRI (TST5878)	TAS 114	GAF-514-02-03	05/12/2014
FM App (TST1867)	FM 4470	3028039	09/11/2006	PRI (TST5878)	TAS 114	GAF-514-02-04	05/12/2014
FM App (TST1867)	FM 4470	3027159	10/03/2006	PRI (TST5878)	TAS 114	GAF-514-02-05	05/12/2014
FM App (TST1867)	FM 4470	3026149	02/05/2007	PRI (TST5878)	TAS 114	GAF-514-02-07	05/12/2014
FM App (TST1867)	FM 4470	3026964	07/25/2007	PRI (TST5878)	TAS 114	GAF-514-02-08	05/12/2014
FM App (TST1867)	FM 4470	3028857	11/02/2007	PRI (TST5878)	TAS 114	GAF-516-02-01	05/13/2014
FM App (TST1867)	FM 4470	3030199	11/05/2007	PRI (TST5878)	TAS 114	GAF-516-02-03	05/13/2014
FM App (TST1867)	FM 4470	3030813	11/05/2007	PRI (TST5878)	TAS 114	GAF-516-02-02	06/06/2014
FM App (TST1867)	FM 4470	3031262	11/30/2007	PRI (TST5878)	TAS 114	GAF-525-02-02	06/23/2014
FM App (TST1867)	FM 4470	3030292	02/25/2008	PRI (TST5878)	TAS 114	GAF-525-02-03	06/23/2014
FM App (TST1867)	FM 4470	797-03825-267	07/21/2008	PRI (TST5878)	TAS 114	GAF-462-02-09	07/01/2014
FM App (TST1867)	FM 4470	3033314	08/26/2008	PRI (TST5878)	TAS 114	GAF-462-02-10	07/01/2014
FM App (TST1867)	FM 4470	3034749	10/16/2008	PRI (TST5878)	TAS 114	GAF-462-02-11	07/01/2014
FM App (TST1867)	FM 4470	3032856	11/24/2008	PRI (TST5878)	TAS 114	GAF-524-02-02	07/01/2014
FM App (TST1867)	FM 4470	3033135	11/24/2008	PRI (TST5878)	TAS 114	GAF-524-02-03	07/01/2014
FM App (TST1867)	FM 4470	3033862	12/24/2008	PRI (TST5878)	TAS 114	GAF-524-02-05	07/01/2014
FM App (TST1867)	FM 4470	3034394	02/27/2009	PRI (TST5878)	TAS 114	GAF-540-02-02	08/06/2014
FM App (TST1867)	FM 4470	3033121	04/13/2009	PRI (TST5878)	TAS 114	GAF-540-02-03	08/06/2014
FM App (TST1867)	FM 4470	3035300	05/06/2009	PRI (TST5878)	TAS 114	GAF-540-02-04	08/06/2014
FM App (TST1867)	FM 4470	3036614	06/09/2009	PRI (TST5878)	TAS 114	GAF-538-02-02	08/13/2014
FM App (TST1867)	FM 4470	3034310	06/15/2009	PRI (TST5878)	TAS 114	GAF-538-02-03	08/13/2014
FM App (TST1867)	FM 4470	3036141	08/10/2009	PRI (TST5878)	TAS 114	GAF-532-02-01	08/22/2014
FM App (TST1867)	FM 4470	3037820	04/30/2010	PRI (TST5878)	TAS 114	GAF-524-02-05	08/27/2014
FM App (TST1867)	FM 4470	797-059797-267	08/18/2010	PRI (TST5878)	TAS 114	GAF-549-02-01	08/08/2014
FM App (TST1867)	FM 4470	3038215	09/02/2010	PRI (TST5878)	TAS 114	GAF-538-02-04	09/02/2014
FM App (TST1867)	FM 4470	797-05901-267	10/01/2010	PRI (TST5878)	TAS 114	GAF-559-02-11	10/16/2014
FM App (TST1867)	FM 4470	797-06003-267	11/11/2010	PRI (TST5878)	TAS 114	GAF-559-02-12	10/16/2014



Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
FM App (TST1867)	FM 4470	3038318	12/10/2010	PRI (TST5878)	TAS 114	GAF-559-02-13	10/16/2014
FM App (TST1867)	FM 4470	797-06178-267	02/07/2011	PRI (TST5878)	TAS 114	GAF-559-02-14	10/16/2014
FM App (TST1867)	FM 4470	3040234	02/23/2011	PRI (TST5878)	TAS 114	GAF-559-02-15	10/16/2014
FM App (TST1867)	FM 4470	3040377	03/08/2011	PRI (TST5878)	TAS 114	GAF-559-02-16	10/16/2014
FM App (TST1867)	FM 4470	3041685	03/24/2011	PRI (TST5878)	TAS 114	GAF-559-02-18	10/16/2014
FM App (TST1867)	FM 4470	797-06254-267	03/24/2011	PRI (TST5878)	TAS 114	GAF-538-02-05	12/03/2014
FM App (TST1867)	FM 4470	3041535	06/08/2011	PRI (TST5878)	ASTM D6878	GAF-584-02-01	12/07/2015
FM App (TST1867)	FM 4470	797-06537-267	06/13/2011	PRI (TST5878)	ASTM D6878	GAF-585-02-01	12/07/2015
FM App (TST1867)	FM 4470	797-06538-267	06/13/2011	PRI (TST5878)	ASTM D6878	GAF-586-02-01	12/07/2015
FM App (TST1867)	FM 4470	3041746	08/17/2011	PRI (TST5878)	TAS 114	GAF-453-02-05	05/06/2016
FM App (TST1867)	FM 4470	797-06894-267	11/02/2011	PRI (TST5878)	TAS 114	GAF-453-02-09	05/06/2016
FM App (TST1867)	FM 4470	3038278	11/18/2011	PRI (TST5878)	Criticality	GAF-653-02-01	10/20/2016
FM App (TST1867)	FM 4470	3042905	01/10/2012	PRI (TST5878)	TAS 114	GAF-653-02-04	10/20/2016
FM App (TST1867)	FM 4470	797-07041-267	02/27/2012	PRI (TST5878)	TAS 114	GAF-746-02-01	12/14/2016
FM App (TST1867)	FM 4470	797-07183-267	03/01/2012	PRI (TST5878)	TAS 114	GAF-746-02-02	12/14/2016
FM App (TST1867)	FM 4470	3044506	03/28/2012	PRI (TST5878)	TAS 114	GAF-746-02-05	12/14/2016
FM App (TST1867)	FM 4470	797-07331-267	04/13/2012	PRI (TST5878)	TAS 114	GAF-746-02-06	12/14/2016
FM App (TST1867)	FM 4470	3044862	05/11/2012	PRI (TST5878)	FM 4470	GAF-755-02-01	02/02/2017
FM App (TST1867)	FM 4470	797-07455-267	05/31/2012	PRI (TST5878)	TAS 114	GAF-755-02-02	02/02/2017
FM App (TST1867)	FM 4470	797-07474-267	06/11/2012	PRI (TST5878)	TAS 114	GAF-755-02-03	02/02/2017
FM App (TST1867)	FM 4470	797-07476-267	06/21/2012	PRI (TST5878)	TAS 114	GAF-755-02-04	02/02/2017
FM App (TST1867)	FM 4470	3045789	07/12/2012	PRI (TST5878)	ASTM D6878	GAF-700-02-01	03/10/2017
FM App (TST1867)	FM 4470	3045166	07/24/2012	PRI (TST5878)	TAS 114	GAF-782-02-01	08/24/2017
FM App (TST1867)	FM 4470	3045863	08/16/2012	PRI (TST5878)	TAS 114	GAF-782-02-02	08/30/2017
FM App (TST1867)	FM 4470	3041749	08/23/2012	PRI (TST5878)	TAS 114	GAF-776-02-02	10/04/2017
FM App (TST1867)	FM 4470	3046328	09/13/2012	PRI (TST5878)	Criticality	GAF-793-02-01	12/08/2017
FM App (TST1867)	FM 4470	3041769	09/27/2012	PRI (TST5878)	TAS 114	GAF-793-02-02	12/08/2017
FM App (TST1867)	FM 4470	797-07744-267	10/17/2012	PRI (TST5878)	TAS 114	GAF-793-02-04	12/08/2017
FM App (TST1867)	FM 4470	797-07885-267	11/21/2012	PRI (TST5878)	TAS 114	GAF-835-02-02	02/19/2018
FM App (TST1867)	FM 4470	3046054	12/21/2012	PRI (TST5878)	TAS 114	GAF-834-02-01	02/28/2018
FM App (TST1867)	FM 4470	797-08216-267	04/11/2013	PRI (TST5878)	TAS 114	GAF-835-02-03	02/28/2018
FM App (TST1867)	FM 4470	3048122	04/29/2013	PRI (TST5878)	TAS 114	GAF-835-02-04	02/28/2018
FM App (TST1867)	FM 4470	797-08217-267	05/01/2013	PRI (TST5878)	TAS 114	GAF-833-02-01	03/02/2018
FM App (TST1867)	FM 4470	797-08264-267	05/23/2013	PRI (TST5878)	TAS 114	GAF-833-02-02	03/02/2018
FM App (TST1867)	FM 4470	3047237	07/15/2013	PRI (TST5878)	TAS 114	GAF-836-02-01	03/02/2018
FM App (TST1867)	FM 4470	3047636	08/08/2013	PRI (TST5878)	TAS 114	GAF-836-02-02	03/02/2018
FM App (TST1867)	FM 4474	797-08873-267	11/26/2013	PRI (TST5878)	TAS 114	GAF-836-02-03	03/02/2018
FM App (TST1867)	FM 4474	3048066	12/13/2013	PRI (TST5878)	TAS 114	GAF-836-02-04	03/02/2018
FM App (TST1867)	FM 4474	3041749	12/30/2013	PRI (TST5878)	TAS 114	GAF-858-02-05	04/27/2018
FM App (TST1867)	FM 4474	797-09116-267	01/24/2014	PRI (TST5878)	TAS 114	GAF-858-02-01	05/01/2018
FM App (TST1867)	FM 4474	797-09234-267	03/11/2014	PRI (TST5878)	TAS 114	GAF-858-02-02	05/01/2018
FM App (TST1867)	FM 4474	797-09317-267	04/18/2014	PRI (TST5878)	TAS 114	GAF-858-02-03	05/01/2018
FM App (TST1867)	FM 4474	797-09493-267	05/27/2014	PRI (TST5878)	TAS 114	GAF-858-02-04	05/01/2018
FM App (TST1867)	FM 4474	797-09495-267	05/27/2014	PRI (TST5878)	TAS 114	GAF-858-02-06	05/01/2018
FM App (TST1867)	FM 4474	797-09573-267	06/13/2014	PRI (TST5878)	TAS 114	GAF-834-02-03	05/11/2018
FM App (TST1867)	FM 4474	797-09497-267	06/23/2014	PRI (TST5878)	ASTM D6878	GAF-870-02-01	02/19/2019
FM App (TST1867)	FM 4474	797-09594-267	06/24/2014	PRI (TST5878)	TAS 114	GAF-902-02-02	02/27/2019
FM App (TST1867)	FM 4474	797-09635-267	07/16/2014	PRI (TST5878)	TAS 114	GAF-926-02-02	07/17/2019
FM App (TST1867)	FM 4474	797-09892-267	10/30/2014	PRI (TST5878)	TAS 114	376T0014	08/09/2019
FM App (TST1867)	FM 4474	797-10123-283	12/17/2014	PRI (TST5878)	TAS 114	376T0016	08/09/2019
FM App (TST1867)	FM 4474	797-10153-267	12/19/2014	PRI (TST5878)	TAS 114	376T0017	08/09/2019
FM App (TST1867)	FM 4474	797-10210-267	02/05/2015	PRI (TST5878)	TAS 114	376T0025	09/06/2019
FM App (TST1867)	FM 4474	797-10211-267	02/05/2015	PRI (TST5878)	TAS 114	376T0026	09/06/2019
FM App (TST1867)	FM 4474	797-10212-267	02/05/2015	PRI (TST5878)	TAS 114	376T0027	09/19/2019
FM App (TST1867)	FM 4474	797-RR20018	02/23/2015	PRI (TST5878)	Criticality	376T0006-3	09/06/2019
FM App (TST1867)	FM 4474	RR200320	04/07/2015	PRI (TST5878)	ASTM D6878	GAF-904-02-01	10/09/2019
FM App (TST1867)	FM 4474	RR200321	04/07/2015	PRI (TST5878)	ASTM D6878	GAF-889-02-01	11/01/2019
FM App (TST1867)	FM 4474	3055411	04/15/2015	UL,LLC(QUA9625)	QA	Service confirmation	09/29/2020
				UL,LLC(QUA9625)	QA	Florida BCIS	Current

#### 4. PRODUCT DESCRIPTION:

This Evaluation Report covers **EverGuard® TPO Single-Ply Roof Membrane Systems** installed in accordance with **GAF** published installation instructions and the Limitations / Conditions of Use herein.

**TABLE 1: ROLL-GOODS FOR TPO ROOF SYSTEMS**

Type	Product		Material Standard			Plant(s)
			Reference	Type	Grade	
Roof Cover or Cap Ply	EverGuard® TPO	45, 60, 80-mil	ASTM D6878	N/A	N/A	IN, PA, TX, UT
	EverGuard Extreme® TPO	50, 60, 70, 80-mil	ASTM D6878	N/A	N/A	IN, TX, UT
	EverGuard® TPO FB Ultra	45, 60, 80-mil	ASTM D6878	N/A	N/A	IN, PA, UT
	EverGuard Extreme® TPO FB Ultra	50, 60, 70, 80-mil	ASTM D6878	N/A	N/A	IN
	EverGuard® Freedom™ TPO HW	45, 60-mil	ASTM D6878	N/A	N/A	IN
Base Sheets	GAFGLAS® #75 Base Sheet		ASTM D4601	II	N/A	CA-F, GA
	Tri-Ply® #75 Base Sheet		ASTM D4601	II	N/A	CA-F, GA
	GAFGLAS® #80 Ultima™ Base Sheet		ASTM D4601	II	N/A	GA
	GAFGLAS® Stratavent® Nailable Venting Base Sheet		ASTM D4897	II	N/A	CA-F, GA
Ply Sheet	GAFGLAS® Ply 4		ASTM D2178	IV	N/A	AL, CA-F, GA
	GAFGLAS® FlexPly™ 6		ASTM D2178	VI	N/A	AL, CA-F, GA
Base Ply or Vapor Barrier Membranes	Ruberoid® 20 Smooth		ASTM D6163	I	S	AR, CA-S, GA
	Ruberoid® HW 25 Smooth		ASTM D6163	I	S	GA
	Ruberoid® 30 Granule		ASTM D6163	I	G	GA
	Ruberoid® HW Smooth		ASTM D6164	I	S	GA
	Ruberoid® Mop Smooth		ASTM D6164	I	S	CA-S, GA
	Ruberoid® Mop Smooth 1.5		ASTM D6164	I	S	CA-S, GA
	Ruberoid® Mop Plus Smooth		ASTM D6164	II	S	CA-S
	Liberty™ SBS Self-Adhering Cap Sheet		ASTM D6164	I	G	AR, GA, IN
	Ruberoid® Torch Granule		ASTM D6222	I	G	GA, IN

#### 5. LIMITATIONS:

- 5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in Non-High Velocity Hurricane Zone jurisdictions.
- 5.3 The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to 'as-tested' conditions under **Testing Application Standard TAS 114, Appendix J**. Roof decks shall be in accordance with **FBC HVHZ** requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This Evaluation Report does not include evaluation of roof edge termination. Refer to **Roofing Application Standard RAS 111** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC HVHZ 1521** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **Testing Application Standard TAS 105**.

- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **Testing Application Standard TAS 124**.
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **Testing Application Standard TAS 114** has already been applied). Refer to **FBC HVHZ 1620** and **Roofing Application Standard RAS 128** for determination of design wind loads.
- 5.7.2 For mechanically attached components, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC HVHZ 1620** or **Roofing Application Standard RAS 128**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with **Roofing Application Standard RAS 117** or **Roofing Application Standard RAS 137**. *\*This extrapolation is not permitted for systems marked with an asterisk\**.
- 5.7.3 For assemblies marked with an asterisk\*, the maximum design pressure (MDP) limitation shall be applicable to all roof pressure zones. Rational analysis is not permitted.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

## 6. INSTALLATION:

**EverGuard® TPO Single-Ply Roof Membrane Systems** shall be installed in accordance with **GAF** published installation instructions, subject to the Limitations / Conditions of Use noted herein.

## 7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

## 8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

## 9. QUALITY ASSURANCE ENTITY:

UL, LLC – QUA9625: (414) 248-6409, karen.buchmann@ul.com

**- THE 118-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -**



**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	6-9
1B	Wood	New, Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	10-12
1C	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	12
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	13-14
1E	Wood	New, Reroof (Tear-Off) or Recover	C-2	Plate-Bonded Roof Cover	15
1F	Wood	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	16
1G	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	16
1H	Wood	New, Reroof (Tear-Off) or Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	17
1I	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	17-20
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	21
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	21-29
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base and Cap Ply	29-30
2D	Steel	New or Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	31-36
2E	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	36-49
2F	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Base and Cap Ply	49-51
2G	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1A	Thermal Barrier with Vapor Barrier, Mechanically Attached Insulation, Bonded Roof Cover	51-56
2H	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	57-59
2I	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	59-62
2J	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	62
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	63-76
3B	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base and Cap Ply	77
3C	Structural concrete	New, Reroof (Tear-Off) or Recover	F	Non-Insulated, Bonded Roof Cover	77
4A	Lightweight concrete / concrete	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	78-80
4B	Lightweight concrete / steel	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	81
4C	Lightweight concrete / concrete	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	82
4D	Lightweight concrete / steel	New, Reroof (Tear-Off) or Recover	C-2	LWC to Deck, Through-attached Plate-Bonded Roof Cover	83
4E	Lightweight concrete / steel	New, Reroof (Tear-Off) or Recover	D-1	LWC to Deck, Through-attached Mechanically Attached Roof Cover	83-84
4F	Lightweight concrete / concrete	New, Reroof (Tear-Off) or Recover	D-1	LWC to Deck, Through-attached Mechanically Attached Roof Cover	84
4G	Lightweight concrete / steel	New or Reroof (Tear Off)	E	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	85-86
4H	Lightweight concrete / steel	New or Reroof (Tear Off)	F	LWC to Deck, Bonded Roof Cover	86-87
4I	Lightweight concrete / concrete	New or Reroof (Tear Off)	F	LWC to Deck, Bonded Roof Cover	87-88
4J	Lightweight concrete / concrete	New or Reroof (Tear Off)	F	Temp Roof / Vapor Barrier to Deck, LWC to Temp Roof / Vapor Barrier, Bonded Roof Cover	89
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	90-91
5B	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	91
5C	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	92
5D	Cementitious wood fiber	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	92
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	93-94
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	94
6C	Existing gypsum	Reroof (Tear-Off)	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	95-97
6D	Existing gypsum	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	98-99
6E	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	99
6F	Existing gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	99
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	100-16
7B	Wood or Steel	Recover	C-2	Plate-Bonded Roof Cover	116-117
7C	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	117
7D	Various	Recover	F	Non-Insulated, Bonded Roof Cover	118

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC HVHZ requirements to the satisfaction of the Authority Having Jurisdiction. Deck-attachment details pertain to 'as-tested' conditions under Testing Application Standard TAS 114, Appendix J.
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood Deck: Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec ASAP 3S, Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate, Drill-Tec #12 DP Fastener or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate, Drill-Tec #12 DPH Fastener with Drill-Tec 3" Recessed Steel Plate, Drill-Tec 3" ASAP Flat or Drill-Tec 3" ASAP Recessed. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
  - Steel Deck: Drill-Tec #12 Fastener, Drill-Tec #14 Fastener or Drill-Tec XHD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only); Drill-Tec ASAP 3S; Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate; Drill-Tec Extra Heavy Duty ASAP Roofing Fastener - Insulation, Drill-Tec #12 DP Fastener, Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener with Drill-Tec 3" Flat Steel Plate, Drill-Tec #12 DPH Fastener with Drill-Tec 3" Recessed Steel Plate, Drill-Tec 3" ASAP Flat or Drill-Tec 3" ASAP Recessed. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
  - Structural Concrete: Drill-Tec #14 Fastener or Drill-Tec CD-10 with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate, Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" ASAP Flat (#14 only). Minimum 1.25-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.
- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137. Calculations shall be prepared, signed and sealed by a qualified design professional.
- 5 Preliminary insulation attachment for System Type D: Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.
- 6 Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
  - Hot asphalt: Full Coverage at 25-30 lbs/square. If applying to concrete deck; deck shall be primed with ASTM D41 primer.
  - GAF 2-Part Roofing Adhesive (G-2-Part): Continuous 2.5 to 3.5-inch ribbons, 12-inch o.c.
  - LRF Adhesive M (LRF-M): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
  - H.B. Fuller Millennium One-Step Foamable Adhesive (M-OSFA): Continuous 1-inch wide ribbons, 12-inch o.c.
  - OlyBond 500 (OB500): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c. using OMG PaceCart, SpotShot or Canister delivery methods. *Note: OlyBond Classic or OlyBond 500 Green may be used where OlyBond 500 is referenced*
  - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
  - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*
- 7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.
  - Hot asphalt: MDP = -240.0 psf (Min. 0.5-inch thick)
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): MDP = -117.5 psf (Min. 1.0-inch thick)
  - LRF Adhesive M (LRF-M): MDP = -232.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation)
  - H.B. Fuller Millennium One-Step Foamable Adhesive (M-OSFA): MDP = -157.5 psf (Min. 0.5-inch thick polyisocyanurate)
  - OlyBond 500 (OB500): MDP = -292.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation)
  - OlyBond 500 (OB500): MDP = -315.0 psf (Min. 0.5-inch thick EnergyGuard RH or RN)
  - OlyBond 500 (OB500): MDP = -487.5 psf (Min. 0.5-inch thick EnergyGuard RA)

- 8 Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
- 9 For mechanically attached components, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC HVHZ 1620 or Roofing Application Standard RAS 128. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria in accordance with Roofing Application Standard RAS 117 or Roofing Application Standard RAS 137. \*This extrapolation is not permitted for systems marked with an asterisk\*
- 10 For assemblies marked with an asterisk\*, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance in accordance with Testing Application Standard TAS 105. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Should the fastener resistance be less than that required, a revised fastener spacing – prepared, signed and sealed by a qualified design professional in accordance with Roofing Application Standard RAS 117 or Roofing Application Standard RAS 137 – may be submitted to the Building Official for review and acceptance.
- 12 Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations. For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with Testing Application Standard TAS 124.
- 13 For Structural Concrete Deck or Recover Applications using System Type C-1, C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC HVHZ Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5 herein). The separator component shall be documented as meeting FBC HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC FBC HVHZ Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15 For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes. For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	APPLICATION	RATE
EverGuard TPO	EverGuard TPO #1121 Bonding Adhesive (#1121)	Contact (both sides)	0.8 to 1.0 gal/square/surface. For use over SECUROCK Gypsum-Fiber Roof Board, the application rate changes to 1.2 to 1.67 gal/sq/surface
EverGuard TPO	EverGuard WB181 Bonding Adhesive (WB181)	Contact (both sides)	To polyisocyanurate or Structodek High Density Fiberboard Roof Insulation, Fiber Base HD1 or Fiber Base HD6 at 0.63 gal/square and roof cover underside at 0.21 gal/square. To DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board at 0.63 to 0.75 gal/square and roof cover underside at 0.21 to 0.25 gal/square
EverGuard TPO	EverGuard Low VOC TPO Bonding Adhesive (L-VOC)	Contact (both sides)	0.46 gal/square/surface
EverGuard TPO	EverGuard TPO 3 Square Low VOC Bonding Adhesive (TPO 3-Square)	Contact (both sides)	0.84 gal/square/surface
EverGuard TPO	EverGuard TPO Quick Spray Adhesive (TPO QSA)	Contact (both sides)	Total application rate: ~0.71 lbs/sq (dry rate).
EverGuard TPO	EverGuard TPO Quick Spray Adhesive LV 50 (TPO QSA LV50)	Contact (both sides)	Total application rate: ~0.84 lbs/sq (dry-rate).
EverGuard TPO	FastLayn TPO TPO Adhesive	Wet lay (substrate)	0.4 gal/square
EverGuard TPO FB Ultra	Hot asphalt	Wet lay (substrate)	25 lbs/square

MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	APPLICATION	RATE
EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive (WB181)	Wet lay (substrate)	0.83 to 1.0 gal/square
EverGuard TPO FB Ultra	GAF LRF Adhesive M (LRF-M) or LRF Adhesive O (LRF-O)	Wet lay (substrate)	1-inch wide ribbons spaced as noted in tables herein. Note: The adhesive ribbons are located directly over the adhesive ribbons used to secure the insulation when the cover is bonded to insulation less than 1.5-inch thick.
EverGuard TPO FB Ultra	GAF 2-Part Roofing Adhesive (GAF 2-Part)	Wet lay (substrate)	"Spatter pattern" at 3.75 lbs/sq.
EverGuard TPO FB Ultra	OlyBond 500 Canister	Wet lay (substrate)	"Spatter pattern" at 0.32 gal/square (to insulation or coverboard) "Spatter pattern" at 0.83 gal/square (to asphaltic base ply membrane).

- 15A For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.
- 15B The "Triposite Roofing System" noted herein consists of loose-laid GAFGLAS Stratavent Perforated Venting Base Sheet, followed by asphalt-applied one (1) or two (2) plies of Ruberoid 20 Smooth or three (3) plies of GAFGLAS FlexPly 6, followed by asphalt-applied EverGuard TPO FB Ultra with 1-5/8" heat welded side laps.
- 15C The "Hybrid Roofing System" noted herein consists of asphalt-applied Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet or GAFGLAS #80 Ultima Base Sheet followed by asphalt-applied EverGuard TPO FB Ultra.
- 16 Vapor barrier options for use over structural concrete deck followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. those in Table 3A applies.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	APPLICATION		
C-VB-1.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6	Hot asphalt applied	Hot asphalt	-360.0
C-VB-2.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule	Torch-applied	GAF 2-Part, 12-inch o.c.	-169.0
C-VB-3.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	GAF 2-Part, 12-inch o.c.	-180.0
C-VB-4.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	GAF 2-Part, 12-inch o.c.	-202.5
C-VB-5.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	GAF 2-Part, 12-inch o.c.	-250.0
C-VB-6.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-262.5
C-VB-7.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 30	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-270.0
C-VB-8.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	LRF-M, 12-inch o.c.	-180.0
C-VB-9.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	LRF-M, 12-inch o.c.	-202.5
C-VB-10.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6	Hot asphalt applied	LRF-M, 12-inch o.c.	-495.0
C-VB-11.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-165.0
C-VB-12.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-180.0
C-VB-13.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-187.5
C-VB-14.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 20 Smooth	Matrix 102 SBS Membrane Adhesive at 1.5 gal/square	OlyBond 500, 12-inch o.c.	-202.5
C-VB-15.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	OlyBond 500, 12-inch o.c.	-202.5
C-VB-16.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule	Torch-applied	OlyBond 500, 12-inch o.c.	-225.0
C-VB-17.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-232.5

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	APPLICATION		
C-VB-18.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6	Hot asphalt applied	OlyBond 500, 12-inch o.c.	-352.5

17 Fire barriers of FireOut™ Fire Barrier Coating, VersaShield Solo™ Fire-Resistant Slip Sheet are optional in all assemblies when overlying components are mechanically fastened.

18 The following products are interchangeable within the scope of this Evaluation Report:

ACCEPTABLE ALTERNATES	
Listed Product	Alternate
EverGuard TPO	EverGuard Extreme TPO
EverGuard TPO FB Ultra	EverGuard Extreme TPO FB Ultra
EnergyGuard Polyiso Insulation	EnergyGuard NH Polyiso Insulation
EnergyGuard Ultra Polyiso Insulation	EnergyGuard NH Ultra Polyiso Insulation
EnergyGuard HD Polyiso Insulation	EnergyGuard NH HD Polyiso Insulation
EnergyGuard HD Plus Polyiso Insulation	EnergyGuard NH HD Plus Polyiso Insulation

19 For System Types B-1, B-2, C-1, C-2, D-1 or Type D-2, GAF SA Vapor Retarder may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to FM Loss Prevention Data Sheet 1-29 (February 2020) for design and installation limitations.

20 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and Roofing Application Standard RAS 128 for determination of design wind loads.

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-1.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-2.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-3.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-4.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-5.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-6.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-7.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-8.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-9.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*
W-10.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-11.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-12.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0



**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-13.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-14.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-15.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-16.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-17.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-18.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-19.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-20.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*
W-21.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	hot asphalt	Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum-Fiber Roof Board	hot asphalt	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5
W-22.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-23.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap	
W-24.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RH Polyiso	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5*

**TABLE 1C: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOMTPO APPLICATIONS:</b>								
W-25.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-52.5
<b>EVERGUARD TPO APPLICATIONS:</b>								
W-26.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
W-27.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 3" o.c.	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5
W-28.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 3" o.c.	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / #1121	-120.0
<b>EVERGUARD TPO FB ULTRA APPLICATIONS:</b>								
W-29.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-30.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 3" o.c.	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
<b>EVERGUARD TPO:</b>								
W-31.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 2.7 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-45.0*
W-32.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 Fastener only)	1 per 2.7 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-45.0*
W-33.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 2.0 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-45.0*
W-34.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-52.5
W-35.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-52.5
W-36.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-60.0
W-37.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-60.0
W-38.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 1.3 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square, TPO QSA or TPO QSA LV50	-60.0
<b>EVERGUARD TPO FB ULTRA:</b>								
W-39.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 2.7 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
W-40.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 Fastener only)	1 per 2.7 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-41.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 2.0 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
W-42.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-43.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-44.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-45.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-46.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #14 with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	1 per 1.8 ft <sup>2</sup>	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or One or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter)	-60.0
W-47.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2 (#14 Fastener only)	1 per 1.3 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-48.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 with Drill-Tec AccuTrac Flat Plate	1 per 1.3 ft <sup>2</sup>	None	EverGuard TPO FB Ultra in hot asphalt	-82.5

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 13)	Spacing		
W-49.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec #14 Fastener and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-50.	Min. 19/32-inch plywood or 1-inch wood plank over nominal No. 2 wood trusses; 2 ft span; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-51.	Min. 19/32-inch plywood or 1-inch wood plank over nominal No. 2 wood trusses; 2 ft span; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
W-52.	Min. 19/32-inch plywood or 1-inch wood plank over nominal No. 2 wood trusses; 2 ft span; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
W-53.	Min. 19/32-inch plywood or 1-inch wood plank over nominal No. 2 wood trusses; 2 ft span; 8d ring shank nails, 3" o.c.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	9-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-90.0
W-54.	Min. 19/32-inch plywood or 1-inch wood plank over nominal No. 2 wood trusses; 2 ft span; 8d ring shank nails, 3" o.c.	One or more layers, any combination, min. 1-inch (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	9-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-105.0

**TABLE 1F: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fasteners	Attachment	
W-55.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d common nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-56.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d common nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-57.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-52.5
W-58.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1.5-inch embedment into joist	6-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5
W-59.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5

**TABLE 1G: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)	MDP (psf)
		Type	Attach	Base	Fasteners (Note 11)	Attach		
W-60.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 6" o.c. at edges and 6" o.c. at intermediate supports	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3" Steel Plate or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0*
W-61.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 6" o.c. at edges and 6" o.c. at intermediate supports	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-60.0*



**TABLE 1H: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Separator Sheet	Roof Cover			MDP (psf)
			Membrane	Fasteners (Note 11)	Attachment	
W-62.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d common nails 6" o.c.	(Optional) Note 17	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-63.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d common nails 6" o.c.	(Optional) Note 17	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-64.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) Note 17	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-60.0
W-65.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) Note 17	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1.5-inch embedment into joist	6-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5
W-66.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or 1-inch wood plank over No. 2 wood trusses; 2 ft span; 8d ring shank nails 6" o.c.	(Optional) Note 17	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-75.0

**TABLE 1I: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base	Cap	
<b>SELF-ADHERING ROOF COVER:</b>							
W-67.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; #8 screws 6" o.c.	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0
W-68.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	32 ga., 1-5/8-inch diameter tin caps with 12 ga. x 1.25-inch annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*
W-69.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*

**TABLE 11: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base	Cap	
W-70.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-67.5*
W-71.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; #10 screws 6" o.c.	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Steel Plates or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-105.0*
<b>HYBRID SYSTEM:</b>							
W-72.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-73.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-74.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
W-75.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
W-76.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-60.0

**TABLE 11: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base	Cap	
W-77.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-75.0
W-78.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 3" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-79.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-80.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-81.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-82.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-83.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 11: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base	Cap	
W-84.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-85.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-86.	Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails, 3" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5
W-87.	Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5

**TABLE 2A: STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)		
<b>EVERGUARD TPO:</b>					
S-1.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500 or LRF-M, 6" o.c.	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5*
S-2.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500 or LRF-M, 6" o.c.	EverGuard TPO / FastLayn TPO Adhesive	-90.0*
S-3.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500 or LRF-M, 6" o.c.	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-120.0*
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>					
S-4.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500 or LRF-M, 6" o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO / SELF-ADHERED:</b>								
S-5.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-6.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-7.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-8.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-9.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-10.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-11.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard RA EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-60.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD TPO:</b>								
S-12.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-13.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4.0 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-14.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	One or more layers of Base Insulation or min. 0.5-inch thick DensDeck	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-15.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck	Note 2	1 per 2.0 ft <sup>2</sup>	One or more layers, min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-16.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch Fiber Base HD1, Fiber Base HD6	OB500	EverGuard TPO / WB181	-45.0*
S-17.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-18.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-19.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-20.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-21.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-22.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-23.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-24.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-25.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-26.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-27.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-28.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / #1121	-120.0
S-29.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
<b>EVERGUARD TPO / EVERGUARD TPO QUICK SPRAY OR EVERGUARD TPO QUICK SPRAY LV 50 APPLICATIONS:</b>								
S-30.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-37.5*
S-31.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck	Note 2	1 per 2.0 ft <sup>2</sup>	One or more layers, min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500 or GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-32.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-33.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-34.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-35.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-36.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-37.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-38.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-60.0
S-39.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-60.0
S-40.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-41.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / #1121	-82.5
<b>EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:</b>								
S-42.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard RA	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	hot asphalt	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-43.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard RA	Note 2	1 per 4.0 ft <sup>2</sup>	Additional layers of base insulation	hot asphalt	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-44.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-45.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck	Note 2	1 per 2.0 ft <sup>2</sup>	One or more layers, min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-46.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-47.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*



**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-48.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-49.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-50.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-51.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-52.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span; Tek/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-52.5
S-53.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span; Tek/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-60.0
S-54.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span; Tek/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part or OB500	EverGuard TPO / FastLayn TPO Adhesive	-60.0
S-55.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span; Tek/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-60.0
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>								
S-56.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-57.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-58.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-59.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-60.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-60.0
S-61.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-62.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-63.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-64.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-65.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-60.0
S-66.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-67.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-68.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-60.0

**EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:**

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-69.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-70.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-71.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-72.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-73.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-74.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-75.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-76.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-77.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-78.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-79.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-80.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-81.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>								
S-82.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-83.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-84.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	Min. 1.5-inch x max. 4x4 ft base insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-85.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	Optional layers of min. 1.5-inch x max. 4x4 ft base insulation followed by min. 0.25-inch x max. 4x4 ft DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-86.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-87.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-88.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	Min. 3-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra	Note 2	1 per 1.0 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0
S-89.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-90.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-91.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-92.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-93.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-94.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

‡ NOTE: As-Tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2A-1 assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>									
S-95.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-96.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 4.0 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-97.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 4.0 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Cap Ply	
S-98.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA	Note 2	1 per 5.3 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-99.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-100.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4.0 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-101.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>TORCH-APPLIED BASE PLY:</b>									
S-102.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>SELF-ADHERING BASE PLY:</b>									
S-103.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

‡ NOTE: As-Tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2A-1 assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO:</b>									
S-104.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-105.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-106.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-107.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-60.0
<b>EVERGUARD TPO:</b>									
S-108.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / EverGuard TPO #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-109.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-110.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
S-111.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck	Note 2 (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Two plies GAFGLAS Ply 4, applied in hot asphalt	Min. 1.5-inch EnergyGuard RA	hot asphalt or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-112.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-113.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-114.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-115.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-116.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / L-VOC	-52.5



**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
S-117.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-67.5
S-118.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-67.5
<b>EVERGUARD TPO / EVERGUARD TPO QUICK SPRAY ADHESIVE OR EVERGUARD TPO QUICK SPRAY LV 50 APPLICATIONS:</b>									
S-119.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Insulation: Min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard RA Coverboard: (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-120.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	Insulation: Min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard RA Coverboard: (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0*
S-121.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	Insulation: Min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard RA Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-67.5
<b>EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:</b>									
S-122.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> )	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	One or more layers, any combination, min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
S-123.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch Dens Deck	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4.0 ft <sup>2</sup>	Two plies GAFGLAS Ply 4, applied in hot asphalt	Min. 1.5-inch EnergyGuard RA	hot asphalt or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-124.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-125.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION or EnergyGuard HD Plus POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-60.0
S-126.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard TPO / FastLayn TPO Adhesive	-67.5
<b>EVERGUARD TPO FB ULTRA:</b>									
S-127.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-128.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
S-129.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-130.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-131.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-132.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-133.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4.0 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-134.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181	-52.5
S-135.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

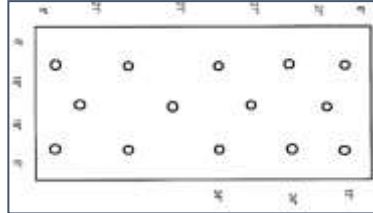
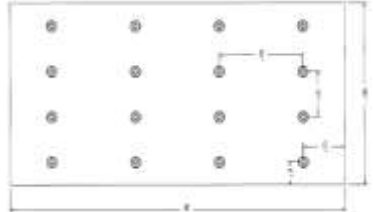
TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)									
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach		Type	Attach (Notes 6,7,8)		
S-136.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.) or LRF-O (12-inch o.c.)	-60.0
S-137.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (4-inch o.c.), LRF-O (4-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5

TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER							
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-138.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-139.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-140.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-141.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-142.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
S-143.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (#14 only)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-144.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0
S-145.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.3 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0
S-146.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-75.0
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-147.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate only)	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-148.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 (Drill-Tec 3" Steel Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-149.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-150.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch DensDeck or DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-151.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch DensDeck or DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-152.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-153.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-154.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 19/32-inch plywood	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-155.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 19/32-inch plywood	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-156.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-157.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-158.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / #1121, TPO 3-Square	-45.0
S-159.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-160.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-161.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5
S-162.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-163.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION	Note 2 	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-164.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

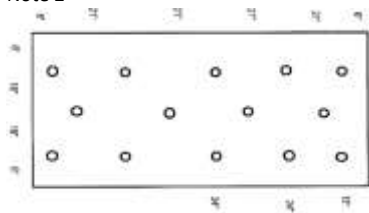
System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-165.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard RH	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-166.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-167.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-168.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, two (2) Traxx/5 screws 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-97.5
S-169.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121	-127.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-170.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-171.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-172.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-173.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-174.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-175.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

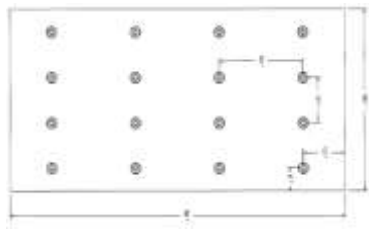
System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-176.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-177.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-178.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-179.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-180.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-181.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5
S-182.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5
S-183.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or struct. conc.	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-75.0
S-184.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-82.5
S-185.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-127.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-186.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate only)	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*



**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-187.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 (Drill-Tec 3" Steel Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-188.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-189.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-190.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-191.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-192.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-193.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
S-194.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-195.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-196.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
S-197.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-198.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*

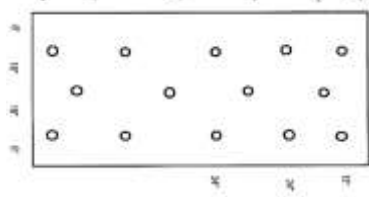
**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-199.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-200.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-60.0
S-201.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION	Note 2 	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-60.0
S-202.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-203.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-204.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-205.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-206.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-75.0
S-207.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Traxx/5 screws 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch DensDeck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-127.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
<b>EVERGUARD TPO / EVERGUARD TPO QUICK SPRAY ADHESIVE or EVERGUARD TPO QUICK SPRAY ADHESIVE LV 50:</b>							
S-208.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / TPO QSA or TPO QSA LV50	-52.5
S-209.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener or Drill-Tec XHD Fastener (steel only) with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / TPO QSA LV50	-60.0
S-210.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener or Drill-Tec XHD Fastener (steel only) with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / TPO QSA	-75.0
S-211.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener or Drill-Tec XHD Fastener (steel only) with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5
S-212.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination, min. 2-inch	Min. 0.25-inch DensDeck Prime	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener or Drill-Tec XHD Fastener (steel only) with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5
S-213.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination, min. 2-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener or Drill-Tec XHD Fastener (steel only) with Drill-Tec AccuTrac Flat Plate	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5
<b>EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:</b>							
S-214.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-30.0*
S-215.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-30.0*
S-216.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-30.0*
S-217.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-30.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-218.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA	Note 2	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-37.5*
S-219.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	Note 2	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-37.5*
S-220.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-37.5*
S-221.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA or Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-222.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-223.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / FastLayn TPO Adhesive	-45.0
S-224.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-225.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 ( <i>Drill-Tec 3" Standard Steel Plate only</i> )	1 per 2.7 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-226.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 ( <i>Drill-Tec 3" Steel Plate, Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate only</i> )	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*

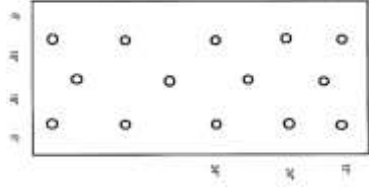
**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-227.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-45.0*
S-228.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-52.5
S-229.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-60.0
S-230.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-67.5
S-231.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-82.5
S-232.	Min. 22 ga., Type B, Grade 40 steel; 6' spans, Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-90.0
<b>TRIPOSITE ROOFING SYSTEM:</b>							
S-233.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Triposite System / Note 15B	-45.0*
S-234.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Triposite System / Note 15B	-45.0*
S-235.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RA	Note 2	1 per 2.0 ft <sup>2</sup>	Triposite System / Note 15B	-60.0

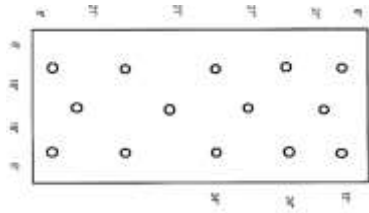
**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-236.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5 screws, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RA	Note 2	1 per 1.45 ft <sup>2</sup>	Triposite System / Note 15B	-75.0
<b>HYBRID ROOFING SYSTEM:</b>							
S-237.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	Hybrid System / Note 15C	-45.0*
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
S-238.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-239.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-240.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-241.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-242.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-67.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
S-243.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-244.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
S-245.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-246.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.75-inch ACFoam Composite/GB	Note 2	1 per 5.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-247.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate, AccuTrac Flat Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-248.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3" Standard Steel Plate, AccuTrac Flat Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-249.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2 (Drill-Tec 3" Steel Plate only)	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-250.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-251.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
S-252.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5
S-253.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-254.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-255.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-256.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-257.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-67.5
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
S-258.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-259.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
S-260.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-261.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-262.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0



**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck† (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-263.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-264.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
S-265.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5
S-266.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional for recover) One or more layers, min. 1.5-inch, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5

†NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2B-1A assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
S-267.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 4.0 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-268.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
S-269.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-270.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.3 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>TORCH-APPLIED BASE PLY:</b>								
S-271.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 4.0 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-272.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-273.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-274.	Min. 22 ga., type B, Grade 40 steel; 6' span, 5/8-inch puddle welds 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	Ruberoid HW 25 Smooth, Ruberoid HW Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
S-275.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.3 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>SELF-ADHERING BASE PLY:</b>								
S-276.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 4.0 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-277.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 3.2 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-278.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-279.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.3 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck# (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-280.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	Note 2 (no recessed plate)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	- 45.0*
S-281.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (no recessed plate)	1 per 4.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	- 45.0*

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-282.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	- 45.0*
S-283.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2 (no recessed plate)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	- 45.0*
S-284.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (#14) (no recessed plate)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-285.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-286.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-287.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-288.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-289.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-290.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	- 45.0*
S-291.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-292.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-293.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-294.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-295.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-296.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-297.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-298.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / WB181	- 45.0*
S-299.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-300.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-301.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-302.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*
S-303.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*
S-304.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*
S-305.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*
S-306.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	- 45.0*
S-307.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-308.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
<b>EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:</b>							
S-309.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*
S-310.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*
S-311.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-312.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*
S-313.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*
S-314.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard HD POLYISO INSULATION	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	- 45.0*
S-315.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-52.5
S-316.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / FastLayn TPO Adhesive	-52.5
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-317.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	- 45.0*
S-318.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	- 45.0*
S-319.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	- 45.0*
S-320.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch DensDeck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	- 45.0*
S-321.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch DensDeck Prime	Note 2	1 per 4.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	- 45.0*

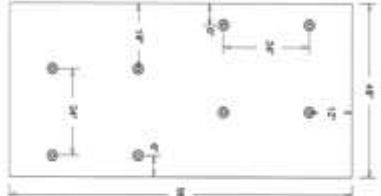
**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach		
S-322.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-323.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
S-324.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	- 45.0*
S-325.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	- 45.0*
S-326.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	- 45.0*
S-327.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder, self-adhered	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0

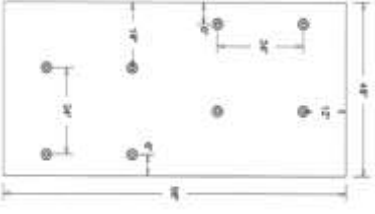
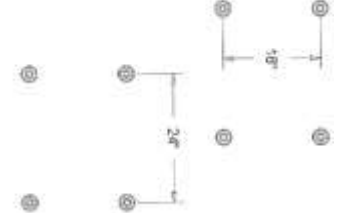
‡NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2B-1B assemblies to a maximum design pressure of -82.5 psf. Note 1.



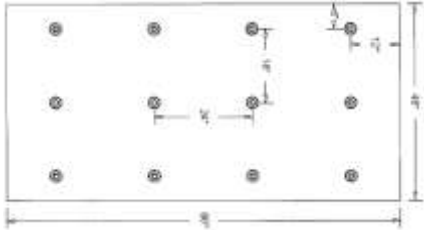
**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck† (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 11)	Density		
S-328.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edge and 12- and 48-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-329.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 8 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edge and 12- and 48-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-330.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 4 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4.0 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-331.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 4 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 4.0 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-332.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 12-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
S-333.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c.	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck† (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 11)	Density		
S-334.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-335.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination	Drill-Tec SXHD and Drill-Tec RhinoBond TPO SXHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO SXHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-336.	Min. 2,500 psi structural concrete	One or more layers, any combination	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-337.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, two (2) Traxx/5 screws with 0.75" washers, 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-338.	Min. 22 ga., type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-339.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	18 x 24 inch staggered grid 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck† (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 11)	Density		
S-340.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
S-341.	Min. 22 ga., type B, Grade 80 steel; 6' spans, 6' spans, two (2) Traxx/5 screws with 0.75" washers, 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5
S-342.	Min. 22 ga., type B, Grade 60 steel; 6 ft span, 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 2-inch	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	18 x 16 inch grid, staggered 6-inch	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-105.0

‡ NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table C-2 assemblies up to a maximum design pressure of -67.5 psf. Note 1.

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attachment	
<b>EVERGUARD TPO:</b>							
S-343.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
S-344.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with with Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/8 in. Barbed XHD Plates; or Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attachment	
S-345.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-346.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-347.	Min. 20 ga., type B, Grade 33 steel; 6' spans, Traxx/5 puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-348.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-349.	Min. 20 ga., type B, Grade 80 steel; 6 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-350.	Min. 22 ga., type B, Grade 60 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-351.	Min. 22 ga., type B, Grade 80 steel; 5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-352.	Min. 18 ga., type B, Grade 33 steel; 4.5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-353.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates, Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-354.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attachment	
S-355.	Min. 22 ga., type B, Grade 40 steel; 5/8" puddle welds or Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-356.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screws or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-357.	Structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach or OB500	EverGuard TPO	Drill-Tec #14 or Drill-Tec CD-10 fasteners with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec Eyehook AccuSeam Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-358.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-359.	Min. 18 ga., type B, Grade 80 steel; 6 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-360.	Min. 20 ga., type B, Grade 80 steel; 5.5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-361.	Min. 22 ga., type B, Grade 80 steel; 4.5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-362.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-363.	Min. 22 ga., type B, Grade 40 steel; 5/8" puddle welds or Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-364.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-365.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attachment	
S-366.	Min. 22 ga., type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
S-367.	Min. 18 ga., type B, Grade 33 steel; 6' spans, two (2) Traxx/5 screws 6" o.c.	One or more layers, min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Five (5) parts per 4x4 ft board	EverGuard TPO	Drill-Tec XHD Fasteners with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-90.0
<b>EVERGUARD TPO FB ULTRA:</b>							
S-368.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener (steel only) or Drill-Tec #14 HD Fastener (concrete only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
S-369.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate or Drill-Tec #15 EHD Fastener (steel only) or Drill-Tec #14 HD Fastener (concrete only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)	MDP (psf)
		Type	Attach	Base	Fasteners	Attach		
S-370.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2 (no recessed plate)	12-inch o.c. at min. 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0
S-371.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2 (no recessed plate)	18-inch o.c. at min. 4-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-52.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO</b>							
C-1.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5*
C-2.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-232.5*
C-3.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-382.5*
C-4.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard Freedom TPO / self adhered	-97.5*
C-5.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-232.5*
C-6.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-292.5*
C-7.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-52.5*
C-8.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard Freedom TPO / self adhered	-97.5*
C-9.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard Freedom TPO / self adhered	-97.5*
C-10.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-127.5*
C-11.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	-	EverGuard Freedom TPO / self adhered	-230.0*
C-12.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-232.5*
C-13.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard Freedom TPO / self adhered	-292.5*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-14.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-347.5*
C-15.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-382.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
C-16.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch DensDeck Prime or Min. 19/32-inch plywood	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0*
C-17.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-82.5*
C-18.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
C-19.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-20.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-21.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
C-22.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5*
C-23.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5*
C-24.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-97.5*
C-25.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-162.5*
C-26.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-27.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-239.5*



**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-28.	Structural concrete	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0*
C-29.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0*
C-30.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-52.5*
C-31.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5*
C-32.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5*
C-33.	Structural concrete	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
C-34.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-127.5*
C-35.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
C-36.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-37.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-240.0*
C-38.	Structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-247.5*
C-39.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-292.5*
C-40.	Structural concrete	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-502.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE</b>							
C-41.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot asphalt	(Optional) Additional layer of base insulation	Hot asphalt	EverGuard TPO / WB181	-135.0*
C-42.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER  
REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-43.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-232.5*
C-44.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0*
C-45.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / WB181	-97.5*
C-46.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO / WB181	-112.5*
C-47.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-162.5*
C-48.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-232.5*
C-49.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / WB181	-292.5*
C-50.	Structural concrete	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-45.0*
C-51.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-45.0*
C-52.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-52.5*
C-53.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / WB181	-97.5*
C-54.	Structural concrete	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-120.0*
C-55.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-130.0*
C-56.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-135.0*
C-57.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	None	N/A	EverGuard TPO / WB181	-215.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER  
REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-58.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-232.5*
C-59.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / WB181	-292.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
C-60.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch DensDeck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-61.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-62.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-63.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-64.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0*
C-65.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-66.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-67.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-162.5*
C-68.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-69.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*
C-70.	Structural concrete	Min. 0.5-inch EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-360.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-71.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-72.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-73.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-74.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-75.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-76.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-77.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-127.5*
C-78.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-79.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*
C-80.	Structural concrete	Min. 1-inch EnergyGuard RH	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-502.5*
<b>EVERGUARD TPO / EVERGUARD TPO QUICK SPRAY OR EVERGUARD TPO QUICK SPRAY LV 50 APPLICATIONS:</b>							
C-81.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layers of base insulation	GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-82.5
C-82.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-270.0
C-83.	Structural concrete	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-87.5
C-84.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / TPO QSA or TPO QSA LV50	-130.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-85.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-202.5
C-86.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / TPO QSA	-232.5
C-87.	Structural concrete	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-87.5
C-88.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATIONPOLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATIONPOLYISO INSULATION, EnergyGuard RA, or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA	-90.0
C-89.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-180.0
C-90.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-232.5
C-91.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-232.5
C-92.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 2.0 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / TPO QSA LV50	-240.0
C-93.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / TPO QSA	-82.5
C-94.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / TPO QSA LV50	-292.5
C-95.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	LRF-M	EverGuard TPO / TPO QSA or TPO QSA LV50	-97.5
C-96.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	LRF-M	EverGuard TPO / TPO QSA LV50	-202.5
C-97.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	LRF-M	EverGuard TPO / TPO QSA	-232.5
C-98.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / TPO QSA	-97.5
C-99.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / TPO QSA LV50	-232.5
C-100.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-101.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	None	N/A	EverGuard TPO / TPO QSA or TPO QSA LV50	-75.0
C-102.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / TPO QSA	-82.5
C-103.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / TPO QSA LV50	-292.5
C-104.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-97.5
C-105.	Structural concrete	Min. 1.5-inch Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0
C-106.	Structural concrete	Min. 2-inch Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA	-120.0
C-107.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-135.0
C-108.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA LV50	-202.5
C-109.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA	-232.5
C-110.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / TPO QSA	-240.0
C-111.	Structural concrete	Min. 1.5-inch Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA or TPO QSA LV50	-45.0
C-112.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 2-inch Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA	-97.5
C-113.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA LV50	-127.5
C-114.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA LV50	-232.5
C-115.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA LV50	-240.0
C-116.	Structural concrete	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA LV50	-247.5
C-117.	Structural concrete	Min. 1-inch EnergyGuard RH	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / TPO QSA LV50	-502.5

**EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:**

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-118.	Structural concrete	Min. 1.5-inch EnergyGuard RA	hot asphalt	(Optional) Min. 0.25-inch DensDeck Prime	hot asphalt	EverGuard TPO / FastLayn TPO Adhesive	-45.0
C-119.	Structural concrete	Min. 1.5-inch thick, min. 1.25 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens DeckPrime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-87.5
C-120.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION, EnergyGuard RA, or EnergyGuard RN	GAF 2-Part	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-90.0
C-121.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-130.0
C-122.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 1.5 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-180.0
C-123.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layers of base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-232.5
C-124.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-232.5
C-125.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-240.0
C-126.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-247.5
C-127.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION, EnergyGuard RA, or EnergyGuard RN	LRF-M	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-90.0
C-128.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-97.5
C-129.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-232.5
C-130.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-292.5
C-131.	Structural concrete	Min. 1.5-inch, min. 1.8 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0
C-132.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0
C-133.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / FastLayn TPO Adhesive	-52.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-134.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION, EnergyGuard RA, or EnergyGuard RN	OB500	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / FastLayn TPO Adhesive	-90.0
C-135.	Structural concrete	Min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / FastLayn TPO Adhesive	-97.5
C-136.	Structural concrete	Min. 2-inch, min. 1.0 pcf, Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / FastLayn TPO Adhesive	-120.0
C-137.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-127.5
C-138.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / FastLayn TPO Adhesive	-130.0
C-139.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-232.5
C-140.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-240.0
C-141.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-247.5
C-142.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / FastLayn TPO Adhesive	-292.5
C-143.	Structural concrete	(Optional) Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra POLYISO INSULATION or EnergyGuard RA	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / FastLayn TPO Adhesive	-270.0
C-144.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard RA	OB500	None	N/A	EverGuard TPO / FastLayn TPO Adhesive	-375.0
<b>TRIPOSITE ROOFING SYSTEM:</b>							
C-145.	Structural concrete (primed)	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RN	Hot Asphalt	(Optional) Additional layers of base insulation	Hot asphalt	Triposite System. Note 15B	-172.5*
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
C-146.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Hot Asphalt	Min. 0.25-inch DensDeck	Hot asphalt	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
C-147.	Structural concrete (primed)	Min. 1-inch EnergyGuard RH	Hot asphalt	None	N/A	EverGuard TPO FB Ultra / Hot asphalt	-470.0*





**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-148.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch DensDeck	OB500	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
<b>EVERGUARD TPO FB ULTRA IN WB181:</b>							
C-149.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-232.5*
C-150.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO FB Ultra / WB181	-97.5*
C-151.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-232.5*
C-152.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-292.5*
C-153.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-52.5*
C-154.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO FB Ultra / WB181	-97.5*
C-155.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO FB Ultra / WB181	-97.5*
C-156.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-127.5*
C-157.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-225.0*
C-158.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-232.5*
C-159.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-240.0*
C-160.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-292.5*
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-161.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-162.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-163.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-164.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-165.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*
C-166.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-167.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	LRF-M	Min. 1.75-inch ACFoam Composite/GB	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-168.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch DensDeck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-169.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch DensDeck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-170.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-171.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-172.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-173.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RN, EnergyGuard RM	LRF-M	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-174.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-175.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*
C-176.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-210.0*
C-177.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-178.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	OB500	Min. 1.75-inch ACfoam Composite/GB	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-179.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-180.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-181.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-182.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-183.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-184.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-185.	Structural concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-186.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-187.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-188.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*

**EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:**

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-189.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-190.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-191.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*
C-192.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-193.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-194.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*
C-195.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-196.	Structural concrete	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-197.	Structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE AND CAP PLY**

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
C-198.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-199.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*
<b>TORCH-APPLIED BASE PLY:</b>								
C-200.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-201.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*
<b>SELF-ADHERING BASE PLY:</b>								
C-202.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-203.	Structural concrete	EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Roof Cover (Note 15)	MDP (psf)
C-204.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-205.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / WB181	-300.0*
C-206.	Min. 3,000 psi structural concrete primed with Matrix 307 Premium Asphalt Primer.	EverGuard TPO FB Ultra / Hot asphalt	-390.0*
C-207.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / OlyBond 500 (spattter)	-435.0*
C-208.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / GAF 2-Part (spattter)	-497.5*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)	MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>CELCORE (NOA 18-0717.05):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-1.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-2.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-3.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
LWC-4.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-5.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-6.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-7.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-8.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5*
<b>ELASTIZELL (NOA 18-0208.03):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-9.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5*
LWC-10.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)	MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-11.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-180.0*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-12.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
LWC-13.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-14.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0*
LWC-15.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0*
LWC-16.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-17.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-18.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-120.0*
LWC-19.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-130.0*
LWC-20.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-180.0*
LWC-21.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-22.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-23.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)	MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-24.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-25.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-26.	Structural concrete	Min. 250 psi Mearlcrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-75.0*
LWC-27.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-240.0*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-28.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-29.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-30.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-31.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-240.0*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-32.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-33.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*



**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: LWC TO DECK, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck* (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Cap Ply	
<b>CELCORE (NOA 18-0717.05):</b>											
LWC-34.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard Freedom TPO / Self-adhered	-45.0
LWC-35.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	None	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0
LWC-36.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO / WB181	-45.0
LWC-37.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO FB Ultra / WB181	-45.0

\* For steel deck application where specific deck attachment is not referenced, 'as tested' attachment was not less than 5/8" puddle welds with weld-washers or Tek/5 screws spaced 6" o.c. Note 1.

**TABLE 4C: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: LWC TO DECK, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Cap Ply	
<b>CELCORE (NOA 18-0717.05):</b>											
LWC-38.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard Freedom TPO / Self-adhered	-45.0
LWC-39.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	None	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0
LWC-40.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO / WB181	-45.0
LWC-41.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO FB Ultra / WB181	-45.0

**TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: LWC TO DECK, MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Insulation Layer	Attachment		Roof Cover (Note 15A)	MDP (psf)
				Fasteners (Note 4 & 11)	Density		
LWC-42.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates, through to engage steel deck	Max. 24-inch o.c. in rows spaced max. 30-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5

**TABLE 4E: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4 & 11)	Attachment	
LWC-43.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
LWC-44.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
LWC-45.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened through to engage structural deck, 12-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
LWC-46.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
LWC-47.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 200 psi, min. 3-inch thick Elastizell	(Optional) One or more layers, any combination, min. 1-inch	Prelim. Attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
LWC-48.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 4E: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Insulation (Note 13)		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4 & 11)	Attachment	
LWC-49.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-50.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-51.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-52.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2-3/4 in. SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
LWC-53.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	None	N/A	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
LWC-54.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 200 psi, min. 3-inch thick Elastizell Lightweight Insulating Concrete	None	N/A	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates (to engage steel deck)	Fastened through to engage steel deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-75.0

**TABLE 4F: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Insulation (Note 13)		Roof Cover			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4 & 11)	Attachment	
LWC-55.	Min. 2,500 psi structural concrete	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec #14 Fasteners with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
LWC-56.	Min. 2,500 psi structural concrete	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec #14 Fasteners with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 4G: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Cap	
<b>CELCORE (NOA 18-0717.05):</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-57.	Min. 22 ga., type B, Grade 33 vented steel; 5 ft spans; 5/8" puddle welds & washers or Traxx/4 or 5 screws 6" o.c.	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Tri-Flex 30	Drill-Tec CR Base Sheet Fasteners	9-inch o.c. in the 4-inch lap and 9-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
<b>MEARLCRETE (NOA 18-0829.06):</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-58.	Min. 22 ga., type B, Grade 33 vented steel; 6 ft spans; 5/8" puddle welds & washers or Traxx/4 or 5 screws 6" o.c.	Min. 300 psi, min. 2-inch thick Mearlcrete	GAF StormSafe Anchor Sheet	Drill-Tec Locking Impact Nail, min. 1.8-inch	7.5-inch o.c. in the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
<b>PRE-EXISTENT CELLULAR LWC:</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-59.	Min. 22 ga., type B, Grade 33 vented steel; 6 ft spans; 5/8" puddle welds 6" o.c.	Min. 250-300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete	GAF StormSafe Anchor Sheet	Drill-Tec #12 screws and 3" Drill-Tec AccuTrac Plates (engage steel deck)	12-inch o.c. at the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-45.0
<b>HYBRID SYSTEMS:</b>								
LWC-60.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve MCRF of 60 lbf or greater when tested per TAS105.</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
LWC-61.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve MCRF of 60 lbf or greater when tested per TAS105.</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

TABLE 4G: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Cap	
LWC-62.	Min. 22 ga., type B, Grade 50 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c.	Min. 180 psi, min. 3-inch thick pre-existent cellular lightweight concrete.	Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth	Drill-Tec XHD Fastener with Drill-Tec 2-3/8 in. Barbed XHD Plate or Drill-Tec Eyehook AccuSeam Plate, fastened through LWC to engage steel deck	Fasteners located 3.75-inch from edge of sheet, and spaced 12-inch o.c. within the min. 6.25-inch wide laps. Laps sealed with min. 4-inch wide heat-weld, encapsulating the fastener row	(Optional) Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
LWC-63.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <i>Note: To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve MCRF of 95 lbf or greater when tested per TAS105.</i>	Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5
LWC-64.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <i>Note: To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve MCRF of 95 lbf or greater when tested per TAS105.</i>	GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5

TABLE 4H: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER							
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Roof Cover (Note 15)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
<b>ELASTIZELL (NOA 18-0208.03):</b>							
LWC-65.	Min. 22 ga., 33 ksi, type BV (0.5%) steel; 6' spans, 5/8" puddle welds 6" o.c.	Elastizell	200	3	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>							

TABLE 4H: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)							
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER							
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Roof Cover (Note 15)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-66.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5*
LWC-67.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-52.5*
LWC-68.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5*
<b>PRE-EXISTENT CELLULAR LWC:</b>							
LWC-69.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of 97 lbf or greater when tested per TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5*
LWC-70.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of 97 lbf or greater when tested per TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5*

TABLE 4I: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)							
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER							
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Roof Cover (Note 15)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
<b>CELCORE (NOA 18-0717.05):</b>							
LWC-71.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-300.0*
LWC-72.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-300.0*
<b>CONCRECEL (NOA 18-0207.03):</b>							
LWC-73.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-225.0*
LWC-74.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-225.0*
LWC-75.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-225.0*
<b>ELASTIZELL (NOA 18-0208.03):</b>							

**TABLE 4I: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Roof Cover (Note 15)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-76.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-200.0*
LWC-77.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0*
LWC-78.	Structural concrete	Elastizell	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-210.0*
<b>SIPLAST INSULCEL (NOA 16-1024.02):</b>							
LWC-79.	Structural concrete	Insulcel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-270.0*
LWC-80.	Structural concrete	Insulcel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-270.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>							
LWC-81.	Structural concrete	Mearlcrete	730	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 6-inch o.c.	-45.0*
LWC-82.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-205.0*
LWC-83.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-205.0*
LWC-84.	Structural concrete	Mearlcrete	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-270.0*
<b>PRE-EXISTENT CELLULAR LWC:</b>							
LWC-85.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5*
LWC-86.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5*
LWC-87.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5*
LWC-88.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5*
LWC-89.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>146 lbf or greater</b> when tested per TAS105.	540	2	EverGuard TPO	EverGuard TPO #1121 BA	-487.5*



**TABLE 4J: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: TEMP ROOF / VAPOR BARRIER TO DECK, LWC TO TEMP ROOF / VAPOR BARRIER, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Temp Roof / Vapor Barrier	Lightweight Concrete (Note 14)			Roof Cover (Note 15)		MDP (psf)
				Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
<b>PRE-EXISTENT CELLULAR LWC:</b>									
LWC-90.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5
LWC-91.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5
LWC-92.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5
LWC-93.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5
LWC-94.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>146 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	540	2	EverGuard TPO FB Ultra	OlyBond 500 (spatter)	-357.5

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO:</b>							
CWF-1.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard Freedom TPO / self adhered	-45.0*
CWF-2.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard Freedom TPO / self adhered	-52.5*
<b>EVERGUARD TPO:</b>							
CWF-3.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
CWF-4.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-52.5*
CWF-5.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO / #1121	-120.0*
CWF-6.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO / #1121	-127.5*
<b>EVERGUARD TPO FB ULTRA:</b>							
CWF-7.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
CWF-8.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
CWF-9.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	LRF-M	(Optional) Additional layers base insulation, flat or tapered	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*
CWF-10.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CWF-11.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-120.0*
CWF-12.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-127.5*

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CWF-13.	Existing (reroof/recover) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates; Minimum 2-inch fastener embedment.	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
CWF-14.	Existing (reroof/recover)) Min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (min. 2-inch embedment)	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
CWF-15.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.3 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
CWF-16.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)	MDP (psf)
		Base	Fasteners (Note 11)	Attach		
CWF-17.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (min. 1.8-inch embedment) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

**TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer / Treatment	Roof Cover (Note 15)	MDP (psf)
CWF-18.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) in accordance with GAF published installation instructions for Tectum applications	-127.5*

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO</b>							
G-1.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-135.0*
G-2.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5*
G-3.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-187.5*
G-4.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5*
G-5.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-257.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
G-6.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
G-7.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
G-8.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-135.0*
G-9.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-270.0*
G-10.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-387.5*
G-11.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
G-12.	Existing poured gypsum or gypsum plank	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
G-13.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5*
G-14.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-257.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
G-15.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-120.0*
G-16.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-130.0*

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
G-17.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-135.0*
G-18.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-210.0*
G-19.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
G-20.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-257.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
G-21.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN, min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
G-22.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-135.0*
G-23.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
G-24.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-257.5*
<b>EVERGUARD TPO FB ULTRA:</b>							
G-25.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RH	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 6-inch o.c.	-75.0*
G-26.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-257.5*

**TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Temp Roof	Base Insulation		Top Insulation		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
G-27.	Existing poured gypsum or gypsum plank	GAFGLAS #75 Base Sheet or Tri-Ply #75 Base Sheet	Drill-Tec Base Sheet Fastener (1.2 in.) or Drill-Tec Base Sheet Fastener E (1.2 in.) (MCRF ≥ 105 lbf)	9-inch o.c. in the min. 2-inch laps and 18-inch o.c. in two, equally spaced center rows	Ruberoid HW 25 Smooth, SBS HW Smooth, Ruberoid Torch Smooth or Tri-Ply APP Smooth	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek HD Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO:</b>								
G-28.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-29.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-30.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-31.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-32.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-33.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-34.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-35.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-36.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-37.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
<b>EVERGUARD TPO:</b>								

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
G-38.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-39.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-40.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-41.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-42.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-43.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-44.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-45.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-46.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-47.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**EVERGUARD TPO FB ULTRA:**



**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
G-48.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-49.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-50.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-51.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-52.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-53.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-54.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-55.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2.0 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-56.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-57.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

**TABLE 6D: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-58.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates (Minimum 2-inch fastener embedment) (MCRF ≥ 180 lbf)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-59.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-60.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 360 lbf) 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-61.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-62.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2.0 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-63.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 360 lbf) 8 parts per min. 4 x 8 ft board with parts installed 24-inch o.c. in two parallel rows, 12 inches from the 8 ft edges of the board	1 per 4.0 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-64.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-65.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2.0 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-66.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

TABLE 6D: GYPSUM DECKS - REROOF (TEAR-OFF) SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-67.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard RH	Drill-Tec Locking Impact Nail (MCRF $\geq$ 140 lbf)	1 per 1.3 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
G-68.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard POLYISO INSULATION or EnergyGuard RH	Drill-Tec Locking Impact Nail (MCRF $\geq$ 140 lbf)	1 per 1.3 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

TABLE 6E: GYPSUM DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)	MDP (psf)
		Base	Fasteners (Note 11)	Attach		
G-69.	Existing poured gypsum or gypsum plank	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (MCRF $\geq$ 83 lbf) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

TABLE 6F: GYPSUM DECKS - REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER				
System No.	Deck (Notes 1 & 12)	Primer / Treatment	Roof Cover (Note 15)	MDP (psf)
G-70.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / WB181	-90.0*
G-71.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-95.0*
G-72.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-280.0
G-73.	Existing poured gypsum or gypsum plank	SureBond Primer at 0.5 gal/square	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-327.5

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>EVERGUARD FREEDOM TPO:</b>							
R-1.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-45.0
R-2.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-110.0
R-3.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-120.0
R-4.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5
R-5.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-6.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard Freedom TPO / self adhered	-97.5
R-7.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-120.0
R-8.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0
R-9.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard Freedom TPO / self adhered	-45.0
R-10.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-110.0
R-11.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-12.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-13.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard Freedom TPO / self adhered	-75.0
R-14.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-75.0
R-15.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-225.0
R-16.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard Freedom TPO / self adhered	-45.0
R-17.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-110.0
R-18.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5
R-19.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-20.	Existing smooth-surfaced modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5
R-21.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard Freedom TPO / self adhered	-245.0
R-22.	Existing smooth-surfaced BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-262.5
R-23.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-270.0

**EVERGUARD TPO IN EVERGUARD TPO #1121 OR EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:**

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-24.	Existing asphalt BUR or mineral surfaced cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch DensDeck Prime or Min. 19/32-inch plywood	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-25.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-26.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-110.0
R-27.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-28.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0
R-29.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5
R-30.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5
R-31.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-32.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
R-33.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-225.0
R-34.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-35.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-110.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-36.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-37.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0
R-38.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0
R-39.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5
R-40.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0
R-41.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-225.0
R-42.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-43.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-110.0
R-44.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-45.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0
R-46.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-47.	Existing smooth-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
R-48.	Existing smooth-surfaced BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-262.5
R-49.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-270.0
R-50.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck or DensDeck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0
R-51.	Existing smooth-surfaced modified bitumen over struct. concrete deck	(Optional) Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
R-52.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0
R-53.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-245.0
R-54.	Existing smooth-surfaced BUR or granule surfaced modified bitumen over struct. concrete deck	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-55.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / WB181	-45.0
R-56.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-110.0
R-57.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-58.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / WB181	-200.0



**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-59.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / WB181	-97.5
R-60.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-45.0
R-61.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / WB181	-120.0
R-62.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-225.0
R-63.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / WB181	-45.0
R-64.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-110.0
R-65.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-66.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / WB181	-200.0
R-67.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / WB181	-75.0
R-68.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-75.0
R-69.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-225.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-70.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / WB181	-45.0
R-71.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-110.0
R-72.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-73.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0
R-74.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / WB181	-200.0
R-75.	Existing smooth-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5
R-76.	Existing smooth-surfaced BUR over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-245.0
R-77.	Existing granule-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0
R-78.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-130.0
<b>EVERGUARD TPO IN EVERGUARD LOW VOC TPO OR EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
R-79.	Existing asphalt BUR or mineral surfaced cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch DensDeck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-80.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-81.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-110.0
R-82.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-83.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-84.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5
R-85.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
R-86.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-87.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-225.0
R-88.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-89.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-110.0
R-90.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5
R-91.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-92.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0
R-93.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-94.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
R-95.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0
R-96.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-225.0
R-97.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-98.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-110.0
R-99.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5
R-100.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0
R-101.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-102.	Existing smooth-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5
R-103.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-245.0
R-104.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0
<b>EVERGUARD TPO / FASTLAYN TPO ADHESIVE APPLICATIONS:</b>							
R-105.	Existing asphalt BUR or mineral surface cap sheet	Min. 1.5-inch EnergyGuard RA	hot asphalt	(Optional) Min. 0.25-inch DensDeck Prime	hot asphalt	EverGuard TPO / FastLayn TPO Adhesive	-45.0
R-106.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION	OB500	None	N/A	EverGuard TPO / FastLayn TPO Adhesive	-45.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-107.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / FastLayn TPO Adhesive	-110.0
R-108.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-157.5
R-109.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-200.0
R-110.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	OB500	EverGuard TPO / FastLayn TPO Adhesive	-97.5
R-111.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch, min. 1.8 pcf, Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO / FastLayn TPO Adhesive	-45.0
R-112.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 1.8 pcf Insulfoam EPS	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-120.0
R-113.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / FastLayn TPO Adhesive	-225.0
R-114.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION	LRF-M	None	N/A	EverGuard TPO / FastLayn TPO Adhesive	-45.0
R-115.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-110.0
R-116.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-157.5
R-117.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-200.0
R-118.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard HD POLYISO INSULATION	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-75.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-119.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-75.0
R-120.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / FastLayn TPO Adhesive	-225.0
R-121.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-45.0
R-122.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-110.0
R-123.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-157.5
R-124.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / FastLayn TPO Adhesive	-200.0
R-125.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-180.0
R-126.	Existing smooth-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-222.5
R-127.	Existing smooth-surface BUR over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-262.5
R-128.	Existing granule-surface modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-270.0
R-129.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-130.0
R-130.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch thick, min. 1.25 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-87.5
R-131.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	One or more layers, min. 1.5-inch thick, min. 1.5 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-180.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-132.	Existing smooth-surfaced modified bitumen over structural concrete deck	(Optional) Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-222.5
R-133.	Existing smooth-surface BUR or granule-surface modified bitumen over structural concrete deck	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-240.0
R-134.	Existing smooth-surface BUR or granule-surface modified bitumen over structural concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO / FastLayn TPO Adhesive	-245.0
R-135.	Existing smooth-surface BUR or granule surface modified bitumen over structural concrete deck	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / FastLayn TPO Adhesive	-247.5
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-136.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	OB500	EverGuard TPO FB Ultra / WB181	-45.0
R-137.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-110.0
R-138.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-120.0
R-139.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5
R-140.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
R-141.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	OB500	EverGuard TPO FB Ultra / WB181	-97.5
R-142.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-120.0
R-143.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-225.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-144.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-45.0
R-145.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-75.0
R-146.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-110.0
R-147.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5
R-148.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
R-149.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD POLYISO INSULATION, EnergyGuard HD POLYISO INSULATION, EnergyGuard HD Plus POLYISO INSULATION	LRF-M	EverGuard TPO FB Ultra / WB181	-75.0
R-150.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-225.0
R-151.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0
R-152.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-110.0
R-153.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5
R-154.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-180.0



**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-155.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
R-156.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-157.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-158.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-159.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-160.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-161.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch DensDeck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-162.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-163.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
R-164.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-165.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-166.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RH	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-167.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-168.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-169.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch DensDeck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-170.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-171.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
R-172.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-173.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-174.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
R-175.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-176.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-177.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5
R-178.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-179.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-180.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-181.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0
R-182.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5
R-183.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-184.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-185.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-186.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0
R-187.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-188.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-189.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard POLYISO INSULATION	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-190.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard POLYISO INSULATION, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0

**TABLE 7B: WOOD OR STEEL - RECOVER**  
**SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Substrate (Notes 1 & 11)	Insulation Layer	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-191.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners or Drill-Tec Hex-Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-192.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-193.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
R-194.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners or Drill-Tec Hex Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-195.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5

**TABLE 7B: WOOD OR STEEL - RECOVER**

**SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Substrate (Notes 1 & 11)	Insulation Layer	Attachment		Roof Cover (Note 15A)	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-196.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
R-197.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
R-198.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners or Drill-Tec Hex Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5
R-199.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5

**TABLE 7C: STEEL - RECOVER**

**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Deck (Note 1 & 11)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners (Note 11)	Attachment	
R-200.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 120-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-45.0
R-201.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Eyehook Reel-Fast Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-202.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 114-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 114-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-52.5
R-203.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2-3/4 in. Barbed SXHD Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0

**TABLE 7D: RECOVER APPLICATIONS  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

<b>System No.</b>	<b>Substrate (Notes 1 &amp; 12)</b>	<b>Roof Cover (Note 15)</b>	<b>MDP (psf)</b>
R-204.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-205.	Existing asphaltic granule surfaced roof cover over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-206.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0*
R-207.	Existing asphaltic granule surfaced cap sheet	EverGuard TPO FB Ultra / LRF Adhesive-M, 6-inch o.c.	-67.5*
R-208.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-105.0*
R-209.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c.	-120.0*
R-210.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-337.5*
R-211.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c. (for full coverage)	-415.0*
R-212.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c. (for full coverage)	-492.5*
R-213.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
R-214.	Existing smooth surfaced SBS modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0*
R-215.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0*
R-216.	Existing smooth or granule surfaced SBS modified bitumen or existing granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-337.5*
R-217.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-497.5*
R-218.	Existing asphaltic granule surfaced cap sheet over structural concrete deck	EverGuard TPO FB Ultra / Hot Asphalt	-405.0*