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EVALUATION REPORT

Skyline Building Systems, Inc.
4500 8A Street NE
Calgary, Alberta T2E 4J7
Canada

Evaluation Report S43670.12.12
FL7791-R3
Date of Issuance: 12/17/2012

SCOPE:

This Evaluation Report is issued under Rule 9N-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 designed to comply with the 2010 Florida Building Code.

DESCRIPTION: DecTec™ Waterproofing Systems

LABELING: Each unit shall bear labeling in accordance with the requirements 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 documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD 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 3, plus a 1-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facimilie seal appearing was authorized by Robert Nieminen, P.E. on 12/17/2012. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:

1. Exterior Research & Design, LLC. d/b/a Trinity|ERD 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. Exterior Research & Design, LLC. d/b/a Trinity|ERD 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.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Waterproofing
Compliance Statement: DecTec™ Waterproofing Systems, as produced by Skyline Building Systems, Inc., have demonstrated compliance with the following sections of the Florida Building Code 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:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2004
1504.7	Impact	FM 4470	1992
1507.13.2	Physical Properties	ASTM D4434	2006

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Physical Properties	4745.12.02-1	12/13/2002
ERD (TST6049)	Physical Properties	4745.12.02-2	12/13/2002
ERD (TST6049)	FM 4470/4474	S4610.11.06	11/10/2006
ICC-ES (EVL2396)	IBC Compliance	ESR-2413	04/01/2011
UL, LLC. (QUA9625)	Quality Control	Multiple-Listing, File R16979	06/20/2012
UL, LLC. (QUA9625)	Quality Control	Service Confirmation, File R8992	Exp. 10/27/2013

4. PRODUCT DESCRIPTION:

The following roof covers are fully adhered to Approved substrates, as outlined in the Limitations / Conditions of Use herein.

- **DecTec Select** is a nominal 60-mil (1.5 mm) or 80 mil (2.0 mm) thick, polyester scrim reinforced, single-ply roof membrane coated with a proprietary PVC compound.
- **DecTec Guardian** is a nominal 60-mil (1.5 mm) thick, fiberglass mat reinforced, single-ply roof membrane coated with a proprietary PVC compound.

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in HVHZ.
- 5.2 Refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.3 Unless otherwise noted in Appendix 1, roof decking and its attachment shall be specified and installed to meet project design criteria to the satisfaction of the AHJ.
- 5.4 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.
- 5.5 For existing substrates in a re-roof (tear off) installation, the existing deck 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 ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124 shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1, except the basic wind speed shall be determined from FBC Figure 1609.



5.7 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9N-3.

6. INSTALLATION:

- 6.1 DecTec™ Waterproofing Systems shall be installed in accordance with published installation instructions by a contractor approved by Skyline Building Systems, Inc., subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind pressures.
- 6.3 "MDP" = Maximum Design Pressure in Appendix 1 reflects the ultimate passing pressure divided by 2; the 2 to 1 margin of safety per FBC 1504.9 has already been applied.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order 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 9N-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

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

- THE ONE (1) PAGE THAT FOLLOWS FORMS PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description	Page
1	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Waterproofing	1
2	Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Waterproofing	1

The following notes apply to the systems outlined herein:

1. Roof decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. The maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
3. For existing substrates in a re-roof installation, the existing roof deck shall be examined for compatibility and bond performance with the waterproofing membrane to the satisfaction of the AHJ. The AHJ may require field uplift testing in accordance with ASTM E907, FM LPDS 1-52 or TAS 124.
4. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.

**TABLE 1: WOOD DECKS – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED WATERPROOFING**

System No.	Deck	Deck Waterproofing		MDP (psf)
		Membrane	Application	
W-1	Nominal 5/8-inch, tongue-and-groove (T&G), CDX plywood glued with LePage Bulldog Grip PL 400 Heavy-Duty Sub-Floor Adhesive and attached 6-inch o.c. to structural supports spaced 24-inch o.c. using #8 wood screws. Deck joints are sealed with DecPatch compound.	DecTec™ Guardian or DecTec™ Select	DecTec™ SBA 100 in a two-sided application at 1.0 gal/square on the substrate and 0.5 gal/square on the membrane for a combined rate of 1.5 gal/square. Or DecTec™ WBA 100 at 0.7 gal/square to the substrate only.	-135.0

**TABLE 2: CONCRETE DECKS – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED WATERPROOFING**

System No.	Deck	Deck Waterproofing		MDP (psf)
		Membrane	Application	
C-1	Min. 2,500 psi structural concrete	DecTec™ Guardian or DecTec™ Select	DecTec™ SBA 100 in a two-sided application at 1.25 gal/square on the substrate and 0.50 gal/square on the membrane for a combined rate of 1.75 gal/square.	-630.0