

RC467| 1115

Product Evaluation

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID:	RC-467	Effective Date:	November 1, 2015		
		Re-evaluation Date:	October 2019		

Product Name: EverGuard[®] PVC Single Ply Roofing Systems

Manufacturer: GAF 1 Campus Drive Parsippany, NJ 07054 (973) 628-3000 technicalquestions@gaf.com

General Description:

EverGuard[®] **PVC Smooth** membranes are nominal 50-mil (1.27 mm), 60-mil (1.52 mm), or 80-mil (2.0 mm) thick, internally reinforced thermoplastic polyvinyl chloride roof covers. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to approved substrates.

EverGuard[®] **PVC XK** membranes are nominal 50-mil (1.27 mm), 60-mil (1.52 mm) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic polyvinyl chloride roof covers manufactured with DuPont[®] Elvaloy KEE. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to approved substrates.

EverGuard[®] **PVC XK Fleeceback** membranes are nominal 60-mil (1.52 m) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic polyvinyl chloride roof covers manufactured with DuPont[®] Elvaloy KEE and with a polyester fleece backing. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to approved substrates.

Limitations:

General installation Requirements: All International Residential Code (IRC) and the International Building Code (IBC) *re*quirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

New Roof Deck Attachment: The wood deck shall meet or exceed the uplift requirements of the IRC or IBC and must be installed as required for resistance to wind loads.

Roof Framing Members: The roof wood framing members must be spaced a maximum of 24" o.c.

For All applications: The roof shall have a minimum slope of 1/4:12.

Surfacing (Optional): TopCoat Membrane applied at a rate of 1 to 1.5 gallons per square.

		System 1- Wood Deck v	with Mechanica	lly Attac	hed Roo	of Cover			
System	Deck	Insulation Layers		Roof Cover					
No.	Deck	Туре	Attach	Base	Ply	Сар	Fastener		
1	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20 (optional) TopCoat FireOut Fire Barrier Coating applied at 1 gallon per square or mechanically fasten VersaShield Solo Fire-Resistant Slip Sheet	(optional: one or more of the following, any combination) Min. 0.5" thick EnergyGuard Polyiso Insulation, EnergyGuard RA, or RN Polyiso Insulation, EnergyGuard Perlite Roof Insulation, Structodek High Density Fiberboard Roof Insulation, min. 0.25" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, or DensDeck Prime Roof Board, 0.5" thick EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Preliminary attach each insulation board with a minimum of four, 11 gauge, galvanized ring shank nails per board. The nails must penetrate the plywood deck a minimum of 3/16".	NA	NA	EverGuard [®] PVC Smooth, EverGuard [®] PVC XK, or EverGuard [®] PVC XK Fleeceback, mechanically attached	Drill-Tec #14 Fasteners & Drill-Tec 2" Double Barbed XHD Plates, Drill-Tec 2-3/8" Barbed XHD Plates, or Drill-Tec Eyehook Accuseam Plates		
Desi	gn Pressure (psf)	Roof Cover Attachment	•						
	-45.0	8" o.c. in rows spaced 55" o.c. Th	e outside 1.5" o	f the 5" la	ap is he	at welded.			

		System 2 -	Wood Deck with Me	chanically Attach	ed Insulation and	d Fully Adhe	red Roof Co	over		
System	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover				
No.		Туре	Attach	Туре	Attach	Base	Ply	Сар	Adhered	
2	Min. 15/32" APA wood structural panel sheathing, Exposure 1, 40/20	Min. 2.0" EnergyGuard Polyiso Insulation	Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plates, 3" Standard Steel Plates, or AccuTrac Flat Plates,16 fasteners per board (every 2.0 ft ²)	Min. 0.25 in. SECUROCK Gypsum-Fiber Roof Board	Cover board is adhered to the insulation with OlyBond 500, OlyBond 500 Green, or LRF Adhesive M applied in 0.75 – 1.0" ribbons spaced 12.0" o.c. or GAF 2-Part Roofing Adhesive applied in 2.5" ribbons spaced 12" o.c.	NA	NA	EverGuard® PVC Smooth, EverGuard® PVC XK, or EverGuard® PVC XK Fleeceback	EverGuard [®] PVC Smooth and EverGuard [®] PVC XK with EverGuard TPO #2331 Bonding Adhesive. EverGuard PVC XK Fleeceback with GAF 2- Part Roofing Adhesive	
Design	Pressure (psf)	Roof Cover Att								
-!	52.5	1.8 gal/sq with min. 3" wide ar EverGuard [®] PVC the adhesive ap	half of the adhesive a Id sealed with min 1.1 CXK Fleeceback adhe	applied to the sub 5" wide heat weld red with GAF 2-Pa e and the membr	istrate and half is is (robotic welder art Roofing Adhe ane is installed in	applied to t r) or with mi sive applied ito the adhes	he back of t n. 2" wide h in a "spatte sive. The s	nding Adhesive appli the roof cover. The s heat welds (hand wel- r pattern" at 3.75 lbs ide laps are min. 3" w welding).	ide laps are ding). /sq with all of	

System 3 - Wood Deck with Roof Covers Bonded to RhinoBond Plates									
System No.	Deck	Insulation Layers			Roof Cover				
		Туре	Attach	Base	Ply	Сар	Attach		
	Min. 15/32" APA wood structural panel sheathing, Exposure 1, 40/20	(optional: one or more of the following, any combination) Min. 0.25" thick Dens Deck, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Glass-Mat Roof Board, min. 0.5" thick Structodek High Density Fiberboard Roof Insulation, 0.5" thick EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation, EnergyGuard Polyiso Insulation	Insulation is loose- laid over the deck when the optional	NA	NA	EverGuard [®] PVC Smooth or EverGuard [®] PVC XK	Drill-Tec #14 Fasteners and Drill-Tec RhinoBond PVC XHD Plates		
3	(optional) TopCoat FireOut Fire Barrier Coating applied at 1 gallon per square or mechanically fasten VersaShield Solo Fire-Resistant Slip Sheet		cover board is present or preliminarily secured when the optional cover board is not present						
Desi	gn Pressure (psf)	Roof Cover Attachment				•			
	-82.5	Drill-Tec fasteners and plates spaced 1 membrane is bonded to the plates using the second states and the second states and the second states are second states and the second states are second states and the second states are second are second states are second sta	• •		aced ma	ximum 24" O.C.). Th	e underside of the		

System 4- Wood Deck with Roof Covers Bonded to RhinoBond Plates									
System No.	Deck	Insulation Layers	Roof Cover						
		Туре	Attach	Base	Ply	Сар	Attach		
Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20 (optional) 4 TopCoat FireOut Fire Barrier Coating applied at 1 gallon per square or mechanically fasten VersaShield Solo Fire-Resistant Slip Sheet	wood structural panel sheathing,	(optional: one or more of the following, any combination) Min. 0.25" thick Dens Deck,	Drill-Tec #14 Fasteners and Drill-						
	SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Glass-Mat Roof Board, min. 0.5" thick Structodek High Density Fiberboard Roof Insulation, 0.5" thick EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation, EnergyGuard Polyiso Insulation	Tec RhinoBond PVC XHD Plates, 12 fasteners per 4' x 8' board (every 2.67 ft ²)	NA	NA	EverGuard® PVC Smooth or EverGuard® PVC XK	Drill-Tec #14 Fasteners and Drill-Tec RhinoBond PV0 XHD Plates			
Desi	gn Pressure (psf)	Roof Cover Attachment	1						
	-52.5	The underside of the membrane is bor	nded to the plates using	g the OM	G Rhinol	Bond tool.			

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.