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To: GAF Commercial Sales, Commercial Contractors & Distribution Partners
From: Commercial Testing & Design Services
Date: 05/12/2023
Subject: **New FM Approved Roofing Systems with Ultra HD™ Composite: Ribbon Adhered to Mechanically Fastened EnergyGuard™ Polyiso Insulation on 22 ga. Steel Deck for Class 1-90, Class 1-120 and Class 1-135 with Adhered EverGuard® TPO and PVC**

GAF Commercial has achieved new FM Approvals per FM Approval Standard 4470 for the roofing assemblies described on pages 2 – 12 of this TechNote. If you have project or product specific questions, do not hesitate to contact designservices@gaf.com for assistance or call (877)-423-7663, option 4 then 3.

Summary View Only Refer to Pages 2 – 12 and RoofNav.com^{1,2} for Detailed FM Approval Requirements and Ratings				
Adhered Single Ply Roof Covers for use with Constructions #1 – #4: Roof Cover #1: Self-Adhered TPO (pg. 2) Roof Cover #2: Smooth TPO in Solvent Based Adhesive (Spray or Bucket) (pg. 2) Roof Cover #3: Fleece Backed TPO in Foam Adhesive (Spatter) (pg. 2) Roof Cover #4: Fleece Backed TPO in Water Based Adhesive (pg. 3) Roof Cover #5: Smooth PVC and KEE in Solvent Based Adhesive (Spray or Bucket) (pg. 3) Roof Cover #6: Smooth PVC in PVC Quick Spray Adhesive (pg. 3) Roof Cover #7: Fleece Backed PVC and KEE in Foam Adhesive (Spatter) (pg. 4) Roof Cover #8: Fleece Backed PVC and KEE in Water Based Adhesive (pg. 4)				
Construction	Deck	EnergyGuard™ Polyiso Insulation Base Layer Attachment (Fasteners per 4 x 8 ft. Board)	Min. 2.0 in. Ultra HD™ Composite (4x4 ft.) Attachment to Base Insulation	Wind
#1 (pg. 5)	Min. 22 ga. Steel	Min. 2.0 in. with 6 fasteners/board	12" o.c. foam adhesive ribbons	1-90
#2 (pg. 6)		Min. 1.5 in. with 10 fasteners/board	12" o.c. foam adhesive ribbons	1-90
#3 (pg. 7)		Min. 2.0 in. with 16 fasteners/board	12" o.c. foam adhesive ribbons	1-120
#4 (pg. 8)		Min. 2.0 in. with 18 fasteners/board	6" o.c. foam adhesive ribbons	1-135

1. Newly approved systems are being added to RoofNav by FM. Contact Design Services for assistance.
2. Consult [Loss Prevention Data Sheets 1-29](#) and [1-49](#) to ensure compliance with FM Global requirements.

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New FM Approved Roofing Systems - Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Roof Cover #1: Self-Adhered TPO	
Roof Cover:	0.060 – 0.080 in. (1.5 – 2.0 mm) thick EverGuard® SA TPO
Roof Cover: Securement:	Self-Adhered
Hail:	SH
ASTM E108:	Class A at max. 0.5 in 12 roof slope

Roof Cover #2: Smooth TPO in Solvent Based Adhesive (Spray and Bucket)	
Roof Cover:	0.045 – 0.080 in. (1.1 – 2.0 mm) thick EverGuard® TPO 0.050 – 0.080 in. (1.3 – 2.0 mm) thick EverGuard Extreme® TPO
Roof Cover: Securement:	EverGuard® TPO #1121 Bonding Adhesive applied at a total rate of 1.67 gal./100 ft ² (0.68 l/m ²), half to substrate and half to back of roof cover EverGuard® TPO 3 Square Low VOC Bonding Adhesive applied at a total rate of 1.67 gal./100 ft ² (0.68 l/m ²), half to substrate and half to back of roof cover EverGuard® TPO Quick Spray Adhesive LV50 applied at a total rate of 0.837 gal./100 ft ² (0.041 kg/m ²), half to substrate and half to back of roof cover EverGuard® TPO Quick Spray Adhesive applied at a total rate of 0.705 gal./100 ft ² (0.034 kg/m ²), half to substrate and half to back of roof cover
Hail:	SH
ASTM E108:	Class A at max. 0.50 in 12 roof slope

Roof Cover #3: Fleece Backed TPO in Foam Adhesive (Spatter)	
Roof Cover:	0.045 – 0.080 in. (1.1 – 2.0 mm) thick EverGuard® TPO FB Ultra or EverGuard® TPO Fleece-Back Membrane 0.050 – 0.080 in. (1.3 – 2.0 mm) thick EverGuard Extreme® TPO FB Ultra or EverGuard Extreme® TPO Fleece-Back Membrane 0.045 in. (1.1 mm) EverGuard® TPO Fleece-Back Membrane 100 0.060 in. (1.2 mm) EverGuard® TPO Fleece-Back Membrane 115 0.080 in. (2.0 mm) EverGuard® TPO Fleece-Back Membrane 135
Roof Cover: Securement:	GAF LRF Adhesive XF spatter applied at 3.0 lbs./100 ft ² (0.14 kg/m ²) OlyBond 500 Adhesive Fastener spatter applied at 0.381 gal./100 ft ² (0.155 l/m ²) LRF Adhesive M spatter applied at 0.55 – 0.75 gal./100 ft ² (0.22 – 0.31 l/m ²)
Hail:	SH
ASTM E108:	Class A at max. 0.25 in 12 roof slope

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Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Roof Cover #4: Fleece Backed TPO in Water Based Adhesive	
Roof Cover:	0.045 – 0.080 in. (1.1 – 2.0 mm) thick EverGuard® TPO FB Ultra or EverGuard® TPO Fleece-Back Membrane
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick EverGuard Extreme® TPO FB Ultra or EverGuard Extreme® TPO Fleece-Back Membrane
	0.045 in. (1.1 mm) EverGuard® TPO Fleece-Back Membrane 100
	0.060 in. (1.2 mm) EverGuard® TPO Fleece-Back Membrane 115
	0.080 in. (2.0 mm) EverGuard® TPO Fleece-Back Membrane 135
Roof Cover: Securement:	Everguard® WB 181 Bonding Adhesive applied at 0.83 – 1.0 gal/100 ft ² (0.34 – 0.41 l/m ²), all adhesive is applied to the substrate and the roof cover is rolled into the wet adhesive.
Hail:	SH
ASTM E108:	Class A at max. 0.25 in 12 roof slope with EverGuard® TPO Fleece-Back Membrane 100, EverGuard® TPO Fleece-Back Membrane 115, EverGuard® TPO Fleece-Back Membrane 135
	Class A at max. 0.75 in 12 roof slope with EverGuard® TPO FB Ultra, EverGuard® TPO Fleece-Back Membrane, EverGuard Extreme® TPO FB Ultra or EverGuard Extreme® TPO Fleece-Back Membrane

Roof Cover #5: Smooth PVC in Solvent Based Adhesive (Spray and Bucket)	
Roof Cover:	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC KEE
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC XK
Roof Cover: Securement:	PVC Quick Spray Adhesive applied at a total rate 4.0 lbs./100 ft ² (0.20 kg/m ²), half to substrate and half to back of roof cover
	Everguard® #2331 Bonding Adhesive applied at a total rate of 1.67 gal./ 100 ft ² (0.68 l/m ²), half to substrate and half to back of roof cover
Hail:	SH
ASTM E108:	Class A at max. 2 in 12 roof slope with PVC Quick Spray Adhesive
	Class A at max. 1 in 12 roof slope with Everguard® #2331 Bonding Adhesive

Roof Cover #6: Smooth PVC in PVC Quick Lay Adhesive	
Roof Cover:	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC
Roof Cover: Securement:	PVC Quick Lay Adhesive applied at 1.0 gal./100 ft ² (0.41 l/m ²) all adhesive is applied to the substrate and roof cover is rolled into the wet adhesive.
Hail:	SH
ASTM E108:	Class A at max. 1 in 12 roof slope

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Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Roof Cover #7: Fleece Backed PVC and KEE in Foam Adhesive (Spatter)	
Roof Cover:	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC Fleeceback
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC KEE Fleeceback
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC XK Fleeceback
Roof Cover: Securement:	GAF LRF Adhesive XF spatter applied at 3.0 lbs./100 ft ² (0.14 kg/m ²)
	OlyBond 500 Adhesive Fastener spatter applied at 0.381 gal/100 ft ² (0.155 l/m ²)
	LRF Adhesive M spatter applied at 0.55 – 0.75 gal./100 ft ² (0.22 – 0.31 l/m ²)
Hail:	SH
ASTM E108:	Class A at max. 0.25 in roof slope 12 with GAF LRF Adhesive XF
	Class A at max. 1.0 in 12 roof slope with OlyBond 500 Adhesive Fastener and LRF Adhesive M

Roof Cover #8: Fleece Backed PVC and KEE in Water Based Adhesive	
Roof Cover:	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC Fleeceback
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC KEE Fleeceback
	0.050 – 0.080 in. (1.3 – 2.0 mm) thick Everguard® PVC XK Fleeceback
Roof Cover: Securement:	Everguard® WB 181 Bonding Adhesive applied at 0.83 – 1.0 gal/100 ft ² (0.34 – 0.41 l/m ²), all adhesive is applied to the substrate and the roof cover is rolled into the wet adhesive
Hail:	SH
ASTM E108:	Class A at a max. 0.75 in 12 roof slope

[Roof construction assemblies continue on the following pages.]

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New FM Approved Roofing Systems – Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Construction #1: Min. 2.0 in. thick Fastened Insulation Base Layer Secured with 6 Fasteners per 4 x 8 ft. Board and min. 2.0 in. Ultra HD™ Composite (4 x 4 ft.) Ribbon Adhered 12" o.c. for Class 1-90

Roof Cover:	Any roof cover #1 through #8 shown above
Adhered Top Insulation:	48 x 48 x 2.0 – 4.0 in. (1220 x 1220 x 51 – 102 mm) Ultra HD™ Composite Insulation
Adhered Top Insulation Securement:	Adhered with GAF LRF Adhesive XF, OlyBond 500 Adhesive Fastener, LRF Adhesive M, LRF Adhesive M Canister, TPO LRF Adhesive M Low Temp or TPO LRF Adhesive M LTA applied in 0.75 – 1.0 in. (19 – 25 mm) wide ribbons spaced 12.0 in. (305 mm) o.c.
Fastened Insulation:	Min. 48 x 96 x 2.0 in. (1220 x 1220 x 51 mm) EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ NH Tapered Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ Ultra Tapered Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation or EnergyGuard™ NH Ultra Tapered Polyiso Insulation
Fastened Insulation Securement:	Mechanically attached with Drill-Tec 3" Recessed Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec 3" Flat Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat), Drill-Tec 3" Standard Steel Plate, Drill-Tec AccuTrac Flat Plate or Drill-Tec 3" DF Steel Insulation Plate and Drill-Tec #12 DF Fastener, Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #14 Fastener, Drill-Tec #14 DF Fastener or Drill-Tec #14 HD Fastener installed at 5.33 ft ² (0.50 m ²) per fastener [6 fasteners per 4 x 8 ft. (1220 x 2440 mm) board].
Insulation (optional):	Optional, one or more layers of min. 1.0 in. (25 mm) EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ NH Tapered, Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation, EnergyGuard™ NH Ultra Tapered Polyiso Insulation, EnergyGuard™ RA, EnergyGuard™ RA Tapered, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ Ultra Tapered Polyiso Insulation may be installed loose or presecured.
Vapor Retarder (optional):	Optional GAF SA Vapor Retarder XL may be self-adhered to the deck or optional thermal barrier, or optional 6 mil [0.006 in. (0.15 mm)] polyethylene may be installed loose over the deck or optional thermal barrier.
Thermal Barrier (optional):	Optional min. 0.50 in. (13 mm) thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Ultralight Glass-Mat Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board may be installed loose or presecured.
Deck:	Min. 22 ga, steel
Wind:	Meets Windstorm Classification 1-90
Total insulation thickness for all layers combined shall not exceed 12 in. (305 mm)	
Consult RoofNav.com assembly details and Loss Prevention Data Sheets 1-29 and 1-49 to ensure compliance with FM Global requirements.	



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Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Construction #2: Min. 1.5 in. thick Fastened Insulation Base Layer Secured with 10 Fasteners per 4 x 8 ft. Board and min. 2.0 in. Ultra HD Composite (4 x 4 ft.) Ribbon Adhered 12" o.c. for Class 1-90

Roof Cover:	Any roof cover #1 through #8 shown above
Adhered Top Insulation:	Same as Construction #1 above
Adhered Top Insulation Securement:	
Fastened Insulation:	
Fastened Insulation Securement:	Same as Construction #1 above, except the fasteners are applied at a rate of 3.2 ft ² (0.30 m ²) per fastener [10 fasteners per 4 x 8 ft. (1220 x 2440 mm) board] .
Insulation (optional):	Same as Construction #1 above
Vapor Retarder (optional):	
Thermal Barrier (optional):	
Deck:	Min. 22 ga, steel
Wind:	Meets Windstorm Classification 1-90
Total insulation thickness for all layers combined shall not exceed 12 in. (305 mm)	
Consult RoofNav.com assembly details and Loss Prevention Data Sheets 1-29 and 1-49 to ensure compliance with FM Global requirements.	

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New FM Approved Roofing Systems - Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Construction #3: Min. 2.0 in. thick Fastened Insulation Base Layer Secured with 16 Fasteners per 4 x 8 ft. Board and min. 2.0 in. Ultra HD™ Composite (4 x 4 ft.) Ribbon Adhered 12" o.c. for Class 1-120

Roof Cover	Any roof cover #1 through #8 shown above
Adhered Insulation:	Same as Construction #1 above
Adhered Insulation Securement:	
Fastened Insulation:	
Fastened Insulation Securement:	Same as Construction #1 above, except the fasteners are applied at a rate of 2.0 ft ² (0.19 m ²) per fastener [16 fasteners per 4 x 8 ft. (1220 x 2440 mm) board] .
Insulation (optional):	Same as Construction #1 above
Vapor Retarder (optional):	
Thermal Barrier (optional):	
Deck:	Min. 22 ga, [0.0299 in. (0.7595 mm)] 33 ksi (228 mPa), 1.5 in. (38 mm) deep, Type B steel secured to supports spaced maximum 72 in. (1.8 m) o.c. with #12 HWH Tekes 4, #12 HWH Tekes 5 fasteners or Hilti X-HSN 24 fasteners spaced 6 in. (152 mm) o.c. Deck side laps are secured 24 in. (610 mm) o.c. with #10 HWH Tekes 1, #10 HWH Tekes 3, #12 HWH Tekes 1, #12 HWH Tekes 3 fasteners, Hilti S-SLC 01M HWH, Hilti S-SLC 02 M HWH or Hilti #10 HWH Screws.
Wind:	Meets Windstorm Classification 1-120
Total insulation thickness for all layers combined shall not exceed 12 in. (305 mm)	
Consult RoofNav.com assembly details and Loss Prevention Data Sheets 1-29 and 1-49 to ensure compliance with FM Global requirements.	

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New FM Approved Roofing Systems - Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Construction #4: Min. 2.0 in. thick Fastened Insulation Base Layer Secured with 18 Fasteners per 4 x 8 ft. Board and min. 2.0 in. Ultra HD™ Composite (4 x 4 ft.) Ribbon Adhered 6" o.c. for Class 1-135

Roof Cover	Any roof cover #1 through #8 shown above
Adhered Insulation:	Same as Construction #1 above
Adhered Insulation Securement:	Same as Construction #1 above, except ribbons are spaced 6.0 in. (152 mm) o.c.
Fastened Insulation:	Same as Construction #1 above
Fastened Insulation Securement:	Same as Construction #1 above, except the fasteners are applied at a rate of 1.78 ft ² (0.17 m ²) per fastener [18 fasteners per 4 x 8 ft. (1220 x 2440 mm) board].
Insulation (optional):	Same as Construction #1 above
Vapor Retarder (optional):	
Thermal Barrier (optional):	
Deck:	Min. 22 ga, [0.0299 in. (0.7595 mm)] 33 ksi (228 mPa), 1.5 in. (38 mm) deep, Type B steel secured to supports spaced maximum 72 in. (1.8 m) o.c. with #12 HWH Tek 4, #12 HWH Tek 5 fasteners or Hilti X-HSN 24 fasteners spaced 6 in. (152 mm) o.c. Deck side laps are secured 24 in. (610 mm) o.c. with #10 HWH Tek 1, #10 HWH Tek 3, #12 HWH Tek 1, #12 HWH Tek 3 fasteners, Hilti S-SLC 01M HWH, Hilti S-SLC 02 M HWH or Hilti #10 HWH Screws.
Wind:	Meets Windstorm Classification 1-135
Total insulation thickness for all layers combined shall not exceed 12 in. (305 mm)	
Consult RoofNav.com assembly details and Loss Prevention Data Sheets 1-29 and 1-49 to ensure compliance with FM Global requirements.	

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New FM Approved Roofing Systems - Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Base Layer Insulation & Attachment: Min. 2.0" thick EnergyGuard Polyiso Insulation (4 x 8 ft.) secured 1 per 5.33 Sq. Ft. for Class 1-90											
Top Layer Insulation & Attachment: Min. 2" Ultra HD Composite (4 x 4 ft.) in Foam Adhesive in 12" o.c. Ribbons											
Membrane	Membrane Adhesive(s)	RoofNav Assembly #	Cover Type	Application Type	Securement Type	Deck Type	Wind Uplift	I/Fire	E/Fire	Slope	Hail
EverGuard SA TPO	self-adhered	550845-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.5	SH
EverGuard TPO	#1121, Quick Spray LV50, Quick Spray, 3 Sq. Low VOC	550914-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.5	SH
EverGuard TPO Fleece-Back, Fleece-Back 100, 115 and 135	LRF M (Spatter), LRF XF (Spatter), OlyBond 500 (Spatter)	550915-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard TPO Fleece-Back 100, 115 and 135	WB 181	550916-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard TPO Fleece-Back	WB 181	550917-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.75	SH
EverGuard PVC, PVC KEE, PVC XK	#2331	550918-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC, PVC KEE, PVC XK	PVC Quick Spray	550919-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	2	SH
EverGuard PVC	PVC Quick Lay	550920-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF XF (Spatter)	550921-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF M (Spatter), OlyBond 500 (Spatter)	550922-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	WB 181	550923-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.75	SH

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Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Base Layer Insulation & Attachment: Min. 1.5" thick EnergyGuard Polyiso Insulation (4 x 8 ft.) Secured 1 per 3.2 Sq. Ft. for Class 1-90											
Top Layer Insulation & Attachment: Min. 2" Ultra HD Composite (4 x 4 ft.) in Foam Adhesive in 12" o.c. Ribbons											
Membrane	Membrane Adhesive(s)	RoofNav Assembly #	Cover Type	Application Type	Securement Type	Deck Type	Wind Uplift	I/Fire	E/Fire	Slope	Hail
EverGuard SA TPO	self-adhered	550924-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.5	SH
EverGuard TPO	#1121, Quick Spray LV50, Quick Spray, 3 Sq. Low VOC	550962-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.5	SH
EverGuard TPO Fleece-Back, Fleece-Back 100, 115 and 135	LRF M (Spatter), LRF XF (Spatter), OlyBond 500 (Spatter)	550964-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard TPO Fleece-Back 100, 115 and 135	WB 181	550965-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard TPO Fleece-Back	WB 181	550966-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.75	SH
EverGuard PVC, PVC KEE, PVC XK	#2331	550967-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC, PVC KEE, PVC XK	PVC Quick Spray	550968-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	2	SH
EverGuard PVC	PVC Quick Lay	550969-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF XF (Spatter)	550970-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.25	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF M (Spatter), OlyBond 500 (Spatter)	550971-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	WB 181	550972-0-0	Single-Ply System	New Roof	Adhered	Steel	90	1	A	0.75	SH

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Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Base Layer Insulation & Attachment: Min. 2.0" thick EnergyGuard Polyiso Insulation (4 x 8 ft.) secured 1 per 2.0 Sq. Ft. for Class 1-120											
Top Layer Insulation & Attachment: Min. 2" Ultra HD Composite (4 x 4 ft.) in Foam Adhesive in 12" o.c. Ribbons											
Membrane	Membrane Adhesive(s)	RoofNav Assembly #	Cover Type	Application Type	Securement Type	Deck Type	Wind Uplift	I/Fire	E/Fire	Slope	Hail
EverGuard SA TPO	self-adhered	550973-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.5	SH
EverGuard TPO	#1121, Quick Spray LV50, Quick Spray, 3 Sq. Low VOC	551026-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.5	SH
EverGuard TPO Fleece-Back, Fleece-Back 100, 115 and 135	LRF M (Spatter), LRF XF (Spatter), OlyBond 500 (Spatter)	551027-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.25	SH
EverGuard TPO Fleece-Back 100, 115 and 135	WB 181	551029-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.25	SH
EverGuard TPO Fleece-Back	WB 181	551030-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.75	SH
EverGuard PVC, PVC KEE, PVC XK	#2331	551031-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	1	SH
EverGuard PVC, PVC KEE, PVC XK	PVC Quick Spray	551032-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	2	SH
EverGuard PVC	PVC Quick Lay	551033-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF XF (Spatter)	551035-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.25	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF M (Spatter), OlyBond 500 (Spatter)	551036-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	WB 181	551037-0-0	Single-Ply System	New Roof	Adhered	Steel	120	1	A	0.75	SH

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New FM Approved Roofing Systems - Ultra HD™ Composite Top Insulation Layer Ribbon Adhered to Fastened Base Layer Insulation on 22 ga. Steel Deck

Class 1-90, 1-120 and 1-135 with Adhered Single Ply Roof Covers

Base Layer Insulation & Attachment: Min. 2.0" thick EnergyGuard Polyiso Insulation (4 x 8 ft.) secured 1 per 1.78 Sq. Ft. for Class 1-135											
Top Layer Insulation & Attachment: Min. 2" Ultra HD Composite (4 x 4 ft.) in Foam Adhesive in 6" o.c. Ribbons											
Membrane	Membrane Adhesive(s)	RoofNav Assembly #	Cover Type	Application Type	Securement Type	Deck Type	Wind Uplift	I/Fire	E/Fire	Slope	Hail
EverGuard SA TPO	self-adhered	551038-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.5	SH
EverGuard TPO	#1121, Quick Spray LV50, Quick Spray, 3 Sq. Low VOC	551039-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.5	SH
EverGuard TPO Fleece-Back, Fleece-Back 100, 115 and 135	LRF M (Spatter), LRF XF (Spatter), OlyBond 500 (Spatter)	551040-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.25	SH
EverGuard TPO Fleece-Back 100, 115 and 135	WB 181	551041-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.25	SH
EverGuard TPO Fleece-Back	WB 181	551042-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.75	SH
EverGuard PVC, PVC KEE, PVC XK	#2331	551043-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	1	SH
EverGuard PVC, PVC KEE, PVC XK	PVC Quick Spray	551044-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	2	SH
EverGuard PVC	PVC Quick Lay	551045-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF XF (Spatter)	551046-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.25	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	LRF M (Spatter), OlyBond 500 (Spatter)	551047-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	1	SH
EverGuard PVC Fleeceback, PVC XK Fleeceback, PVC KEE Fleeceback	WB 181	551048-0-0	Single-Ply System	New Roof	Adhered	Steel	135	1	A	0.75	SH