



PRI Construction Materials Technologies LLC

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DYNAMIC UPLIFT RESISTANCE (DUR) EVALUATION OF GAF ROOF SYSTEMS

(PROJECT NO. 376A0001)

For

GAF

1 Campus Drive

Parsippany, NJ 07054

(877) 423-7663

<https://www.gaf.com/en-us>

November 4, 2025

Evaluation Scope: The following roof systems evaluated herein have demonstrated compliance with the CSA A123.21-14 and CSA A123.21: 20 *Standard Test Method for the Dynamic Uplift Resistance of Membrane-Roof Systems* for their stated dynamic uplift resistance (DUR).

Quality Assurance: All products listed herein shall be manufactured under a Quality Assurance program audited by an ISO/IEC 17020 accredited third-party.

Product Descriptions:

Multi-Ply Membranes:

Products	Description
GAFGLAS® Ply 4	Asphalt-saturated glass felt
GAFGLAS® Stratavent® Perforated Venting Base Sheet	Asphalt-saturated, perforated glass felt base sheet

Single-Ply Membranes:

Products	Description
EverGuard® PVC Membrane	Nominal 50-mil, 60-mil, or 80-mil thick thermoplastic PVC, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
EverGuard® PVC Fleeceback Membrane	Nominal 50-mil, 60-mil, or 80-mil thick thermoplastic PVC, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 3.5oz/yd ² non-woven polyester fleece backing
EverGuard® PVC KEE Membrane	Nominal 50-mil, 60-mil, or 80-mil thick thermoplastic PVC KEE, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
EverGuard® PVC KEE Fleeceback Membrane	Nominal 50-mil, 60-mil, or 80-mil thick thermoplastic PVC KEE, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 3.5oz/yd ² non-woven polyester fleece backing
EverGuard® TPO Membrane	Nominal 45-mil, 60-mil, or 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
EverGuard Extreme® TPO Membrane	Nominal 50-mil, 60-mil, 70-mil or 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
EverGuard® TPO Fleece-Back Membrane	Nominal 45-mil, 60-mil, or 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 3.5oz/yd ² non-woven polyester fleece backing
EverGuard Extreme® TPO Fleece-Back Membrane	Nominal 50-mil, 60-mil, 70-mil or 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 3.5oz/yd ² non-woven polyester fleece backing

Vapor Retarders:

Products	Description
GAF SA Vapor Retarder	Self-adhering, modified asphalt-based vapor retarder
GAF SA Vapor Retarder XL	Self-adhering, butyl-based vapor retarder.
GAF SA Vapor Retarder XL40	Self-adhering, butyl-based vapor retarder
Polyethylene plastic sheet	Min. 6mil polyethylene sheet as required by building code
Asphalt-coated kraft paper	As required by building code

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Insulation Boards:

Products	Description
EnergyGuard™ RA HD Polyiso Insulation	High density, polyisocyanurate cover board with coated glass facers; Manufactured by Atlas Roofing Corp.
EnergyGuard™ HD Barrier Polyiso Cover Board	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF
EnergyGuard™ HD Polyiso Cover Board	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF
EnergyGuard™ HD Plus Polyiso Cover Board	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF
EnergyGuard™ NH HD Polyiso Cover Board	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF
EnergyGuard™ NH HD Plus Polyiso Cover Board	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Manufactured by GAF
EnergyGuard™ NH Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Manufactured by GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Distributed by GAF
EnergyGuard™ Ultra Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF
EnergyGuard™ NH Ultra Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF
EnergyGuard™ Ultra RA Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF
Ultra HD Composite Insulation	High density, polyisocyanurate cover board with coated glass facers factory laminated to polyisocyanurate foam insulation board with fiberglass reinforced organic facer; Manufactured by GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Manufactured by GAF
EnergyGuard™ NH Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Manufactured by GAF
EnergyGuard™ RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with fiberglass reinforced organic facer, Distributed by GAF
EnergyGuard™ Ultra Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF
EnergyGuard™ NH Ultra Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF
EnergyGuard™ Ultra RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation board with coated glass facers, Manufactured by GAF

Thermal Barriers and Cover Boards:

Products	Description
DensDeck Roof Board	Fiberglass faced gypsum coverboard; Manufactured by G-P Gypsum, LLC
DensDeck Prime Roof Board	Coated-fiberglass faced gypsum coverboard; Manufactured by G-P Gypsum, LLC
DensDeck StormX Prime Roof	Min. 5/8-inch thick; Coated-fiberglass faced gypsum coverboard; Manufactured by G-P Gypsum, LLC

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Products	Description
Board	
DEXcell Cement Roof Board	Cementitious coverboard; Manufactured by National Gypsum
DEXcell FA VSH Glass Mat Roof Board	Coated-fiberglass faced gypsum coverboard; Manufactured by National Gypsum
DEXcell FA Glass Mat Roof Board	Coated-fiberglass faced gypsum coverboard; Manufactured by National Gypsum
DEXcell Glass Mat Roof Board	Fiberglass faced gypsum coverboard; Manufactured by National Gypsum
SECUROCK Cement Roof Board	Cementitious coverboard; Manufactured by US Gypsum.
SECUROCK Gypsum-Fiber Roof Board	Fiber-reinforced gypsum coverboard; Manufactured by US Gypsum.
SECUROCK Ultralight Coated Glass-Mat Roof Board	Coated-fiberglass faced gypsum coverboard; Manufactured by US Gypsum.
SECUROCK Ultralight Glass-Mat Roof Board	Fiberglass faced gypsum coverboard; Manufactured by US Gypsum.

Membrane Adhesives for Single-Ply Systems:

Products	Description
EverGuard® PVC Quick Spray Adhesive	Fully adhered at rate of 6.0lbs/100 ft ² ; Applied simultaneously to underside of membrane and substrate
EverGuard® PVC #2331 Bonding Adhesive	Fully adhered at rate of 1.67gal/100 ft ² ; Applied simultaneously to underside of membrane and substrate
EverGuard® TPO 1121 Bonding Adhesive	Fully adhered at rate of 1.67gal/100 ft ² ; Applied simultaneously to underside of membrane and substrate
EverGuard® TPO Quick Spray Adhesive LV-50	Fully adhered at rate of 2.7lbs/100 ft ² ; Applied simultaneously to underside of membrane and substrate
OlyBond 500 Canister	Spatter pattern applied; 0.32 gal/100ft ²
GAF LRF Adhesive XF	Spatter pattern applied; 3 lbs./100ft ²

Insulation Adhesives:

Products	Description
OlyBond 500	Two component urethane foam adhesive; Manufactured by OMG
GAF LRF Adhesive M	Two component urethane foam adhesive;
GAF LRF Adhesive M Canister	
GAF LRF Adhesive XF	
GAF LRF Adhesive XF Canister	

Fastening Components:

Products	Description
Drill-Tec™ #12 Fastener	#12 fastener; For steel deck or wood deck
Drill-Tec™ #12 DF Fastener	#12 fastener; For steel deck or wood deck
Drill-Tec™ #12 DP Fastener	#12 fastener; For steel deck or wood deck
Drill-Tec™ #14 Fastener	#14 fastener; For concrete deck, steel deck or wood deck
Drill-Tec™ #14 DF Fastener	#14 fastener; For concrete deck, steel deck or wood deck
Drill-Tec™ #14 HD Fastener	#14 fastener; For concrete deck, steel deck or wood deck
Drill-Tec™ #15 DF Fastener	#15 fastener; For steel deck or wood deck
Drill-Tec™ #15 EHD Fastener	#15 fastener; For steel deck or wood deck

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Products	Description
Drill-Tec™ XHD Fastener	#15 fastener; For steel deck or wood deck
Drill-Tec™ 2" Double Barbed XHD Plate	2-inch diameter galvalume steel seam plate with barbs
Drill-Tec™ 2-3/8" Barbed XHD Plate	2 3/8-inch diameter galvalume steel seam plate with barbs
Drill-Tec™ 2-3/8" Double Barbed XHD Plate	2 3/8-inch diameter galvalume steel seam plate with barbs
Drill-Tec™ 2.4" Barbed Seam Plate	2.4-inch diameter galvalume steel seam plate with barbs
Drill-Tec™ 2.4" Scoop Seam Plate	2.4-inch diameter galvalume steel seam plate with scoops
Drill-Tec™ 2-3/8" DF Barbed Seam Plate	2 3/8-inch diameter galvalume steel seam plate with barbs
Drill-Tec™ AccuTrac Flat Plate	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ 3" DF Steel Insulation Plate	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ 3" Standard Steel Plate	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ 3" Steel Plate	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ 3" Flat Steel Plate	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ 3" Ribbed Galv. Plates (Flat)	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ RhinoBond® PVC XHD Plates	Min. 3-inch diameter, steel insulation plate;
Drill-Tec™ RhinoBond® TPO XHD Plates	Min. 3-inch diameter, steel insulation plate;
Drill-Tec™ PVC IW Plates	Min. 3-inch diameter, steel insulation plate;
Drill-Tec™ TPO IW Plates	Min. 3-inch diameter, steel insulation plate;

Installation: The roof shall have a minimum slope of ¼:12.

Insulation and Cover Board Fastening:

For roof systems with adhered roof cover, the insulation and cover boards shall be fastened using named fastener and plate at the given fastening rate per board. Fasteners shall be installed through the top rib of steel deck and penetrate a minimum of ¾-inches. Fasteners shall be installed through the plywood sheathing and penetrate a minimum of ¾-inches. Fasteners installed in concrete deck shall embed a minimum of 1-inch.

For induction welded systems, the insulation shall be secured with Drill-Tec™ RhinoBond® XHD Plates using the named fastener at the given fastening rate per board. The PVC and TPO membranes shall be induction welded in the field of membrane with RhinoBond® welding tool, avoiding lap seams.

Insulation and Cover Board Attachment with Adhesives:

4-ft x 4-ft shall be the maximum allowable board size when board is adhered.

OlyBond 500 shall be applied in min. 0.75-inch wide, continuous ribbons.

Ply Sheet Attachment:

Minimum three (3) plies shall be applied in hot asphalt at a rate of 25-30 gal/sq.

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Membrane Adhesives:

Unless otherwise noted, membrane adhesives are applied in full coverage to membrane and substrate at the combined rate list in the product description tables for each adhesive. Follow manufacturer's recommendations for proper flashing of the adhesive prior to engaging the membrane to the substrate.

Mechanically Fastened Single-Ply Membranes:

Laps shall be installed parallel to the bar joists and shall be a minimum 6" wide with a minimum 1.5" wide heat weld.

Roof Deck:

Concrete - Minimum $f'c = 2,500$ psi at 28 days.

Steel - Minimum 22 ga., Grade 33, Type B steel deck. The flutes shall be 0.5% vented when used with cellular lightweight concrete.

Wood - Minimum 15/32-inch thick APA approved plywood or wood plank.

Limitations of Use:

GAF roof systems used and installed herein are subject to following limitations of use:

- 1) Fire resistance of the components and assembly are not within the scope of this report
- 2) Installation of the evaluated assembly shall comply with this report and manufacturer's published application instructions.
- 3) Extrapolation of mechanically fastened roof systems to meet design requirements for the perimeter and corner roof zones shall be permitted at the discretion of the Authority Having Jurisdiction.
- 4) The deck and deck attachment shall be designed by others to meet the required design loads.

Evidence Submitted:

CSA A123.21-14, CSA A123.21: 20 and other testing conducted at ISO/IEC 17025 accredited laboratories was provided by the named manufacturer.

<u>Entity</u>	<u>Report No.</u>	<u>Date</u>
Nemo Etc LLC	2b=GAF-23-LSWUD-01.A	11/28/2023
PRI Construction Materials Technologies	GAF-623-02-01	05/05/2016
PRI Construction Materials Technologies	GAF-623-02-02	05/05/2016
PRI Construction Materials Technologies	GAF-623-02-03	05/05/2016
PRI Construction Materials Technologies	GAF-623-02-04	05/05/2016
PRI Construction Materials Technologies	GAF-623-02-06	05/05/2016
PRI Construction Materials Technologies	GAF-794-02-01	11/2/2017
PRI Construction Materials Technologies	GAF-794-02-02	11/2/2017
PRI Construction Materials Technologies	GAF-794-02-07	11/2/2017
PRI Construction Materials Technologies	GAF-794-02-08	11/2/2017
PRI Construction Materials Technologies	GAF-891-02-03	11/28/2018
PRI Construction Materials Technologies	GAF-891-02-04	11/28/2018
PRI Construction Materials Technologies	GAF-891-02-05	11/28/2018
PRI Construction Materials Technologies	GAF-891-02-06	11/28/2018
PRI Construction Materials Technologies	GAF-891-02-07	11/28/2018
PRI Construction Materials Technologies	GAF-891-02-08	11/28/2018
PRI Construction Materials Technologies	376T0281	03/23/2022
PRI Construction Materials Technologies	376T0283	03/24/2022
PRI Construction Materials Technologies	376T0284	03/24/2022
PRI Construction Materials Technologies	376T0358	02/17/2023
PRI Construction Materials Technologies	376T0421	07/19/2023
PRI Construction Materials Technologies	376T0422	07/19/2023

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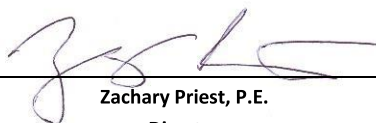
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<u>Entity</u>	<u>Report No.</u>	<u>Date</u>
PRI Construction Materials Technologies	376T0414.2	06/05/2023
PRI Construction Materials Technologies	376T0458	12/14/2023
PRI Construction Materials Technologies	376T0459	12/14/2023
PRI Construction Materials Technologies	376T0500	03/08/2024
PRI Construction Materials Technologies	376T0514	04/03/2024
PRI Construction Materials Technologies	376T0620.1	07/03/2025
PRI Construction Materials Technologies	376T0620.2	07/03/2025
PRI Construction Materials Technologies	376T0539.2	07/24/2025
PRI Construction Materials Technologies	376T0539.3	07/24/2025
PRI Construction Materials Technologies	376T0539.4	07/24/2025
PRI Construction Materials Technologies	376T0560	10/15/2024
PRI Construction Materials Technologies	376T0571	10/15/2024
PRI Construction Materials Technologies	376T0592	12/16/2024
PRI Construction Materials Technologies	376T0614.1	05/07/2025
PRI Construction Materials Technologies	376T0614.2	05/07/2025
PRI Construction Materials Technologies	376T0614.3	05/07/2025
PRI Construction Materials Technologies	376T0618.1	05/07/2025
PRI Construction Materials Technologies	376T0618.2	05/07/2025
PRI Construction Materials Technologies	376T0618.3	05/07/2025
PRI Construction Materials Technologies	376T0670.1	09/16/2025
PRI Construction Materials Technologies	376T0670.2	09/16/2025

Report Issue History:

<u>Issue #</u>	<u>Date</u>	<u>Pages</u>	<u>Revision Description (if applicable)</u>
Original	12/01/2022	10	NA
Rev 1	05/31/2024	16	Added additional CSA assemblies
Rev 2	07/15/2024	16	Editorial update
Rev 3	11/04/2025	24	Added additional CSA assemblies

Signed:



Zachary Priest, P.E.
Director

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Evaluated Roof Systems:

The following notes shall be observed when using the assembly tables below.

- Dynamic Uplift Resistance (DUR) is expressed in both the form required by CSA A123.21-14 (shown as 2014) which includes a safety factor of 1.5 on the result, and the form required by CSA A123.21: 20 (shown as 2020), which does not include a safety factor on the result.
- The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
- EverGuard Extreme® TPO may be substituted in place of EverGuard® TPO Membrane
- EverGuard Extreme® TPO Fleece-Back Membrane may be substituted for EverGuard® TPO Fleece-Back Membrane
- When fastening into structural concrete, Drill-Tec™ #14 Fastener, Drill-Tec™ #14 DF Fastener, or Drill-Tec™ #14 HD Fastener shall be used.
- Fill layer insulation may be substituted with any insulation or cover board listed in this report.
- Drill-Tec 2-3/8" Barbed XHD Plates, Drill-Tec 2-3/8" Double Barbed XHD Plates, Drill-Tec 2.4" Barbed Seam Plates, Drill-Tec 2.4" Scoop Seam Plates or Drill-Tec 2-3/8" DF Barbed Seam Plates may be substituted for Drill-Tec 2" Double Barbed XHD Plates.
- Tapered versions of the named insulation boards may be used provided it complies with the minimum stated thickness.
- GAF High Solids Silicone Roof Coating has demonstrated meeting the minimum adhesion requirements in accordance with ASTM D6694 when applied to TPO primed with TPO Red Primer.
- Drill-Tec TPO IW Plate may be used with Drill-Tec #15 EHD Fastener or Drill-Tec XHD Fastener, or Drill-Tec RhinoBond TPO XHD Plate may be used with Drill-Tec #15 EHD Fastener in place of Drill-Tec TPO XHD Plate with Drill-Tec XHD Fastener.
- Drill-Tec PVC IW Plate may be used with Drill-Tec #15 EHD Fastener or Drill-Tec XHD Fastener, or Drill-Tec RhinoBond PVC XHD Plate may be used with Drill-Tec #15 EHD Fastener in place of Drill-Tec PVC XHD Plate with Drill-Tec XHD Fastener.

PARS Multi-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Base Sheet	Ply Sheet	Cap Sheet or Surfacing
								DUR
MSP-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation Board installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DP Fasteners and Drill-Tec 3" Steel Plates or Drill-Tec 3" Flat Steel Plates at 2.9ft² per fastener (11 fasteners per 4ft x 8ft board)	GA/GLAS Stratavent Perforated Venting Base Sheet	Min. (3) plies of GA/GLAS Ply 4 applied in hot asphalt	OPTIONAL Hot asphalt and gravel
								-48 psf -2.30 kPa

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AARS EverGuard PVC and PVC KEE Single-Ply Roof Systems (New or Existing)							
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	DUR	
						2014	2020
PSA-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 1.75" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	-	EnergyGuard HD Polyiso Cover Board adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	-50 psf -2.39 kPa	-75 psf -3.59 kPa

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EverGuard PVC and PVC KEE Single-Ply Roof Systems over Steel Deck (New or Existing) – Membrane Induction Welded to RhinoBond Plates								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
PSI-1A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation, , EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 5.33ft² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-50 psf -2.39 kPa	-75 psf -3.59 kPa
PSI-1B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso, EnergyGuard NH Polyiso Insulation, Insulation or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 5.33ft² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-50 psf -2.39 kPa	-75 psf -3.59 kPa
PSI-2A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa
PSI-2B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa
PSI-3A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-86 psf -4.12 kPa	-129 psf -6.18 kPa
PSI-3B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond PVC XHD Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane	-86 psf -4.12 kPa	-129 psf -6.18 kPa

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PARS EverGuard PVC and PVC KEE Single-Ply Roof Systems over Steel Deck (New or Existing)							DUR	
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	2014	2020
PSP-1A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2.67ft ² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane adhered in EverGuard PVC Quick Spray Adhesive or EverGuard PVC #2331 Bonding Adhesive	-34 psf -1.63 kPa	-51 psf -2.44 kPa
PSP-1B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2.67ft ² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-34 psf -1.63 kPa	-51 psf -2.44 kPa
PSP-2	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 2" EnergyGuard Polyiso Insulation installed with Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plate at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	One or more layers of min. 2" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 12" o.c.	Min. 0.25" DensDeck Prime adhered with OlyBond 500 spaced 12" o.c.	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-42.5 psf -2.03 kPa	-63.8 psf -3.05 kPa
PSP-3A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2ft ² per fastener (16 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane adhered in EverGuard PVC Quick Spray Adhesive or EverGuard PVC #2331 Bonding Adhesive	-44 psf -2.11 kPa	-66 psf -3.16 kPa
PSP-3B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2ft ² per fastener (16 fasteners per 4ft x 8ft board)	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-44 psf -2.11 kPa	-66 psf -3.16 kPa
PSP-4	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 2" EnergyGuard Polyiso Insulation installed with Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plate at 2.67ft ² per fastener (12 fasteners per 4ft x 8ft board)	One or more layers of min. 2" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 12" o.c.	Min. 0.25" DensDeck Prime adhered with OlyBond 500 spaced 12" o.c.	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-63 psf -3.02 kPa	-94.5 psf -4.52 kPa
PSP-5	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plate at 1.45ft ² per fastener (22 fasteners per 4ft x 8ft board)	-	One or more layers of min. 1.75" EnergyGuard Polyiso Insulation with GAF LRF Adhesive XF Canister spaced 6" o.c.	EverGuard PVC Membrane adhered in EverGuard PVC #2331 Bonding Adhesive	-80 psf -3.83 kPa	-120 psf -5.75 kPa

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PARS EverGuard PVC and PVC KEE Single-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
PSP-6A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 1ft ² per fastener (32 fasteners per 4ft x 8ft board)	EverGuard PVC Membrane adhered in EverGuard PVC Quick Spray Adhesive or EverGuard PVC #2331 Bonding Adhesive	-86 psf -4.12 kPa	-129 psf -6.18 kPa
PSP-6B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 1ft ² per fastener (32 fasteners per 4ft x 8ft board)	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-86 psf -4.12 kPa	-129 psf -6.18 kPa

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PARS EverGuard PVC and PVC KEE Single-Ply Roof Systems over Wood Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
PWP-1	Min. 23/32" plywood sheathing	Polyethylene sheet or any self-adhered vapor barrier	Min. 2" EnergyGuard Polyiso Insulation installed with Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plate at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	One or more layers of min. 2" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 12" o.c.	Min. 0.25" DensDeck Prime adhered with OlyBond 500 spaced 12" o.c.	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-42.5 psf -2.03 kPa	-63.8 psf -3.05 kPa
PWP-2	Min. 23/32" plywood sheathing	Polyethylene sheet or any self-adhered vapor barrier	Min. 2" EnergyGuard Polyiso Insulation installed with Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plate at 2.67ft ² per fastener (12 fasteners per 4ft x 8ft board)	One or more layers of min. 2" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 12" o.c.	Min. 0.25" DensDeck Prime adhered with OlyBond 500 spaced 12" o.c.	EverGuard PVC KEE Membrane adhered in EverGuard PVC #2331 Bonding Adhesive H	-63 psf -3.02 kPa	-94.5 psf -4.52 kPa

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AARS EverGuard TPO Single-Ply Roof Systems (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSA-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 1.75" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	-	-	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive	-62.5 psf -2.99 kPa	-93.8 psf -4.49 kPa
TSA-2	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 1.5" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	-	Min. 0.25" DensDeck Prime adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-75 psf -3.59 kPa	-112.5 psf -5.39 kPa
TSA-3	Min. 22 ga., Grade 33, Type B galvanized steel deck	GAF SA Vapor Retarder	Min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	-	One or more layers of min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa
TSA-4	Min. 22 ga., Grade 33, Type B galvanized steel deck	GAF SA Vapor Retarder	Min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	-	One or more layers of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa
TSA-5	Min. 22 ga., Grade 33, Type B galvanized steel deck	GAF SA Vapor Retarder	Min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	One or more layers of min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Cover Board adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa
TSA-6	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 1.5" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 6" o.c.	-	Min. 0.25" DensDeck Prime adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-100 psf -4.79 kPa	-150 psf -7.18 kPa
TSA-7	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Min. 0.5" DensDeck Prime adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.; GAF SA Vapor Retarder XL	Min. 1.5" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	-	Min. 0.25" DensDeck Prime adhered with GAF LRF Adhesive M or GAF LRF Adhesive M Canister spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-100 psf -4.79 kPa	-150 psf -7.18 kPa

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EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing) – Membrane Induction Welded to RhinoBond Plates							DUR	
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	2014	2020
TSI-1A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation, or Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-50 psf -2.39 kPa	-75 psf -3.59 kPa
TSI-1B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-50 psf -2.39 kPa	-75 psf -3.59 kPa
TSI-2A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-60 psf -2.87 kPa	-90 psf -4.31 kPa
TSI-2B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-60 psf -2.87 kPa	-90 psf -4.31 kPa
TSI-3A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa
TSI-3B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa
TSI-4A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa
TSI-4B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa

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EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing) – Membrane Induction Welded to RhinoBond Plates								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSI-5A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 3.1” EnergyGuard Ultra RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft² per fastener (6 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-70 psf -3.35 kPa	-105 psf -5.03 kPa
TSI-5B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 3.1” EnergyGuard Ultra RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 5.33ft² per fastener (6 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-70 psf -3.35 kPa	-105 psf -5.03 kPa
TSI-6A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5” EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or Min. 2.6” EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-70 psf -3.35 kPa	-105 psf -5.03 kPa
TSI-6B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5” EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-70 psf -3.35 kPa	-105 psf -5.03 kPa
TSI-7A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5” EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 3.2ft² per fastener (10 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-75 psf -3.59 kPa	-112.5 psf -5.39 kPa
TSI-7B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5” EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 3.2ft² per fastener (10 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-75 psf -3.59 kPa	-112.5 psf -5.39 kPa
TSI-8A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5” EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or Min. 2.6” EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-97.3 psf -4.66 kPa	-146 psf -6.99 kPa
TSI-8B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5” EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane	-97.3 psf -4.66 kPa	-146 psf -6.99 kPa

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EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing) – Membrane Induction Welded to RhinoBond Plates								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSI-9A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.5" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-100 psf -4.79 kPa	-150 psf -7.18 kPa
TSI-9B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Any cover board listed in this report installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	Min. 60mil EverGuard TPO Membrane	-100 psf -4.79 kPa	-150 psf -7.18 kPa

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MARS EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSM-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.7" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 6.4ft² per fastener (5 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any Drill-Tec XHD Fasteners and Drill-Tec 2" Double Barbed XHD Plates spaced 18" o.c. in rows spaced 114" o.c.	-33.3 psf -1.60 kPa	-50 psf -2.39 kPa
TSM-2	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DP Fasteners and Drill-Tec 3" Steel Plates or Drill-Tec 3" Flat Steel Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any #15 fastener listed above and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 114" o.c.	-50 psf -2.39 kPa	-75 psf -3.59 kPa
TSM-3	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.7" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any Drill-Tec XHD Fasteners and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 114" o.c.	-50 psf -2.39 kPa	-75 psf -3.59 kPa
TSM-4	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DP Fasteners and Drill-Tec 3" Steel Plates or Drill-Tec 3" Flat Steel Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any #15 fastener listed above and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 54" o.c.	-75 psf -3.59 kPa	-112.5 psf -5.39 kPa
TSM-5	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.7" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any Drill-Tec XHD Fasteners and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 54" o.c.	-75 psf -3.59 kPa	-112.5 psf -5.39 kPa
TSM-6	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Min. 0.5" DensDeck Prime with GAF SA Vapor Retarder	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation	Min. 0.25" DensDeck Prime installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DP Fasteners and Drill-Tec 3" Steel Plates or Drill-Tec 3" Flat Steel Plates at 5.33ft² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any #15 fastener listed above and Drill-Tec 2-3/8" Barbed XHD Plates, Drill-Tec 2.4" Barbed Seam Plates, Drill-Tec 2.4" Scoop Seam Plates or Drill-Tec 2-3/8" DF Barbed Seam Plates spaced 12" o.c. in rows spaced 54" o.c.	-80 psf -3.83 kPa	-120 psf -5.75 kPa

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PARS EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSP-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Min. 0.5" DensDeck Prime installed with Drill-Tec #12 Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 4ft² per fastener (8 fasteners per 4ft x 8ft board); GAF SA Vapor Retarder XL	Min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 12" o.c.	-	Min. 0.5" DensDeck Prime adhered with OlyBond 500 spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-30 psf -1.44 kPa	-45 psf -2.15 kPa
TSP-2	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-34 psf -1.63 kPa	-51 psf -2.44 kPa
TSP-3	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	-	One or more layers of Min. 1.75" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive XF Canister spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive	-37.5 psf -1.80 kPa	-56.3 psf -2.69 kPa
TSP-4	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard RA HD Polyiso Insulation installed with Drill-Tec #12 Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 4ft² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-40 psf -1.92 kPa	-60 psf -2.87 kPa
TSP-5	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Steel Plates at 2ft² per fastener (16 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-44 psf -2.11 kPa	-66 psf -3.16 kPa
TSP-6	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DP Fasteners and Drill-Tec 3" Steel Plates or Drill-Tec 3" Flat Steel Plates at 2.67ft² per fastener (12 fasteners per 4ft x 8ft board)	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister or GAF LRF Adhesive XF	-50 psf -2.39 kPa	-75 psf -3.59 kPa

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PARS EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing)									
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR		
							2014	2020	
TSP-7	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-50 psf -2.39 kPa	-75 psf -3.59 kPa	
TSP-8	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 2.67ft ² per fastener (12 fasteners per 4ft x 8ft board)	-	One or more layers of Min. 1.75" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive XF Canister spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive	-55 psf -2.63 kPa	-82.5 psf -3.95 kPa	
TSP-9	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 2ft ² per fastener (16 fasteners per 4ft x 8ft board)	-	One or more layers of Min. 1.75" EnergyGuard Polyiso Insulation adhered with GAF LRF Adhesive XF Canister spaced 12" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa	
TSP-10	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 2ft ² per fastener (16 fasteners per 4ft x 8ft board)	One or more layers of min. 1.75" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with GAF LRF Adhesive XF spaced 6" o.c.	Min. 0.25" DensDeck Prime adhered with GAF LRF Adhesive XF or GAF LRF Adhesive M spaced 6" o.c.	EverGuard TPO Membrane applied in EverGuard #1121 Bonding Adhesive	-66.7 psf -3.19 kPa	-100 psf -4.79 kPa	
TSP-11A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa	
TSP-11B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa	

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PARS EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSP-12	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder or GAF SA Vapor Retarder XL	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 Fasteners and Drill-Tec #12 DF Fasteners and Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Cover Board adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-81.3 psf -3.89 kPa	-122 psf -5.84 kPa
TSP-13	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 1.5" EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Cover Board installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Ribbed Galv. Plates (Flat) at 1ft ² per fastener (32 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50 or EverGuard #1121 Bonding Adhesive	-86 psf -4.12 kPa	-129 psf -6.18 kPa
TSP-14	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	Polyethylene sheet or any self-adhered vapor barrier	Min. 1.75" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 DF Fasteners and Drill-Tec 3" Recessed Steel Plates at 1.45ft ² per fastener (22 fasteners per 4ft x 8ft board)	One or more layers of min. 1.75" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with GAF LRF Adhesive XF spaced 6" o.c.	Min. 0.25" DensDeck Prime adhered with GAF LRF Adhesive XF or GAF LRF Adhesive M spaced 6" o.c.	EverGuard TPO Membrane applied in EverGuard #1121 Bonding Adhesive	-91.7 psf -4.39 kPa	-137.5 psf -6.58 kPa
TSP-15	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-101.3 psf -4.85 kPa	-152 psf -7.28 kPa
TSP-16	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-101.3 psf -4.85 kPa	-152 psf -7.28 kPa

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PARS EverGuard TPO Single-Ply Roof Systems over Steel Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TSP-17	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation; EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-101.3 psf -4.85 kPa	-152 psf -7.28 kPa
TSP-18	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec #12 Fasteners or Drill-Tec #12 DF Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener (18 fasteners per 4ft x 8ft board)	One or more layers of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Cover Board adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-101.3 psf -4.85 kPa	-152 psf -7.28 kPa

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MARS EverGuard TPO Single-Ply Roof Systems over Wood Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TWM-1	Min. 19/32" plywood sheathing	Polyethylene sheet or any self-adhered vapor barrier	OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.75" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec #12 Fasteners and Drill-Tec 3" Recessed Steel Plates at 5.33ft ² per fastener (6 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any Drill-Tec XHD Fasteners and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 114" o.c.	-50 psf -2.39 kPa	-75 psf -3.59 kPa
			OPTIONAL one or more layers of EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, or EnergyGuard RA Polyiso Insulation	-	Min. 1.75" EnergyGuard Polyiso Insulation or EnergyGuard NH Polyiso Insulation installed with Drill-Tec #12 Fasteners and Drill-Tec 3" Recessed Steel Plates at 4ft ² per fastener (8 fasteners per 4ft x 8ft board)	EverGuard TPO Membrane attached with any Drill-Tec XHD Fasteners and Drill-Tec 2" Double Barbed XHD Plates spaced 12" o.c. in rows spaced 54" o.c.	-62.5 psf -2.99 kPa	-93.8 psf -4.49 kPa
TWM-2	Min. 19/32" plywood sheathing	Polyethylene sheet or any self-adhered vapor barrier						

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PARS EverGuard TPO Single-Ply Roof Systems over Wood Deck (New or Existing)								
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR	
							2014	2020
TWP-1	Min. 23/32" plywood sheathing	Polyethylene sheet or any self-adhered vapor barrier	Min. 2" EnergyGuard Polyiso Insulation installed with Drill-Tec #14 Fasteners and Drill-Tec 3" Steel Plate at 1.45ft ² per fastener (22 fasteners per 4ft x 8ft board)	One or more layers of min. 2" EnergyGuard Polyiso Insulation or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	Min. 0.25" DensDeck Prime adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard TPO Quick Spray Adhesive LV-50	-101.7 psf -4.87 kPa	-152.5 psf -7.30 kPa

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