



PRI Construction Materials Technologies LLC

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DYNAMIC UPLIFT RESISTANCE (DUR) EVALUATION OF GAF ROOF SYSTEMS

(PROJECT NO. 376A0001)

For

GAF
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December 1st, 2022

Evaluation Scope: The following roof systems evaluated herein have demonstrated compliance with the 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® 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

Thermal Barriers:

Products	Description
DensDeck Prime	Gypsum coverboard with coated fiberglass facer on the top surface and a fiberglass facer on the bottom surface; Manufactured by Georgia Pacific Gypsum

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

Insulations and Cover Boards:

Products	Description
EnergyGuard™ RA HD Polyiso Insulation	High density, polyisocyanurate cover board with coated glass facers; Manufactured by Atlas Roofing Corp.

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Products	Description
DensDeck Prime Roof Board	Coated-fiberglass faced gypsum coverboard; Manufactured by G-P Gypsum, LLC
EnergyGuard™ 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
SECUROCK Gypsum-Fiber Roof Board	Fiber-reinforced gypsum coverboard; Manufactured by US Gypsum.
EnergyGuard™ HD Polyiso Insulation	High density, polyisocyanurate cover board with coated glass facers; Manufactured by GAF

Membrane Adhesives for Single-Ply Systems:

Products	Description
EverGuard® TPO 1121 Bonding Adhesive	Fully adhered at rate of 1.67gal/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

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
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™ 2.4" 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

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Products	Description
Drill-Tec™ 3" Ribbed Gavl. Plates (Flat)	3-inch diameter; Galvalume steel insulation plate
Drill-Tec™ RhinoBond® XHD Plates	Min. 3-inch diameter, steel insulation plate;

Installation: The roof shall have a minimum slope of 1/12.

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 $\frac{3}{4}$ -inches. Fasteners shall be installed through the plywood sheathing and penetrate a minimum of $\frac{3}{4}$ -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 TPO membrane 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.

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

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- 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: 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>
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

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	12/01/2022	10	NA

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.

1. Dynamic Uplift Resistance (DUR) are based on testing conducted in accordance with CSA A123.21: 20.
2. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
3. EverGuard Extreme® TPO may be substituted in place of EverGuard® TPO Membrane
4. EverGuard Extreme® TPO Fleece-Back Membrane may be substituted for EverGuard® TPO Fleece-Back Membrane
4. When fastening into structural concrete, Drill-Tec™ #14 Fastener, Drill-Tec™ #14 DF Fastener, or Drill-Tec™ #14 HD Fastener shall be used.
5. Fill layer insulation may be substituted with any insulation or cover board listed in this report.
6. 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 may be substituted for Drill-Tec 2" Double Barbed XHD Plates.

Multi-Ply Roof Systems (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
MP-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	Min. 2.6" EnergyGuard 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 2.9ft ² per fastener	GAFGLAS Stratavent Perforated Venting Base Sheet	Min. (3) plies of GAFGLAS Ply 4 applied in hot asphalt	OPTIONAL Hot asphalt and gravel	-3.45 kPa -72 psf

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Single-Ply Roof Systems (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
SI-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	Min. 2.6" EnergyGuard Polyiso Insulation	Min. 2.6" EnergyGuard Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener	EverGuard TPO Membrane	-3.44 kPa -72 psf
SI-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	Min. two (2) layers of 2.6" EnergyGuard Polyiso Insulation	EnergyGuard HD Polyiso Insulation, Min. 0.25" DensDeck Prime, or Min. 0.25" SECUROCK Gypsum-Fiber installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener	EverGuard TPO Membrane	-3.44 kPa -72 psf
SI-2A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard RA Polyiso Insulation	-	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener	EverGuard TPO Membrane	-5.03 kPa -105 psf
SI-2B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Insulation, Min. 0.25" DensDeck Prime, or Min. 0.25" SECUROCK Gypsum-Fiber installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 4ft ² per fastener	EverGuard TPO Membrane	-5.03 kPa -105 psf
SI-3A	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard RA Polyiso Insulation	-	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 2.67ft ² per fastener	EverGuard TPO Membrane	-6.99 kPa -146 psf
SI-3B	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard RA Polyiso Insulation	EnergyGuard HD Polyiso Insulation, Min. 0.25" DensDeck Prime, or Min. 0.25" SECUROCK Gypsum-Fiber installed with Drill-Tec XHD Fasteners and Drill-Tec RhinoBond TPO XHD Plates at 2.67ft ² per fastener	EverGuard TPO Membrane	-6.99 kPa -146 psf

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Single-Ply Roof Systems (New or Existing) – Membrane Mechanically Fastened							
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR
SM-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 RA Polyiso Insulation	Min. 2.6" EnergyGuard 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 4ft ² per fastener	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..	-3.59 kPa -75 psf
SM-2	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	Min. 2.6" EnergyGuard 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 5.33ft ² per fastener	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..	-5.75 kPa -120 psf

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Single-Ply Roof Systems (New or Existing) – Membrane Adhered							
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR
SA-1	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder XL	Min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation	Min. 2.6" EnergyGuard 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 4ft ² per fastener	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-2.87 kPa -60 psf
SA-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	Min. 2.6" EnergyGuard 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 2.67ft ² per fastener	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister or GAF LRF Adhesive XF	-3.59 kPa -75 psf
SA-3	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 RA Polyiso Insulation	Min. 2.6" 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	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-3.59 kPa -75 psf
SA-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 layer 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	-5.84 kPa -122 psf
SA-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 layer of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-5.84 kPa -122 psf
SA-6	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 layer of min. 2.6" EnergyGuard or EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-5.84 kPa -122 psf
SA-7	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	OPTIONAL one or more layers of 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	One or more layer 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	-5.84 kPa -122 psf
SA-8	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	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	One or more layer 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	-5.84 kPa -122 psf

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Single-Ply Roof Systems (New or Existing) – Membrane Adhered							
System No.	Deck	Thermal Barrier/ Vapor Barrier	Base Insulation	Middle Insulation	Top Insulation or Cover Board	Membrane	DUR
SA-9	Min. 22 ga., Grade 33, Type B galvanized steel deck or structural concrete	GAF SA Vapor Retarder	Min. 2.6" EnergyGuard RA Polyiso Insulation installed with Drill-Tec #12 DF Fasteners or Drill- Tec #12 Fasteners and Drill-Tec 3" Standard Steel Plates or Drill-Tec 3" Steel Insulation Plates at 1.78ft ² per fastener	One or more layer of min. 2.6" EnergyGuard RA Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-6.84 kPa -122 psf
SA-10	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	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	One or more layer 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	-7.28 kPa -152 psf
SA-11	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	-	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	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-7.28 kPa -152 psf
SA-13	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	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	One or more layer of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Membrane adhered in EverGuard #1121 Bonding Adhesive	-7.28 kPa -152 psf
SA-14	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	One or more layer of min. 2.6" EnergyGuard Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EnergyGuard HD Polyiso Insulation adhered with OlyBond 500 spaced 6" o.c.	EverGuard TPO Fleece-Back Membrane applied in OlyBond 500 Canister	-7.28 kPa -152 psf

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