

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	6-8
1B	Wood	New, Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	9-10
1C	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	11
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	12-13
1E	Wood	New, Reroof (Tear-Off) or Recover	C-2	Plate-Bonded Roof Cover	14
1F	Wood	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	15
1G	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	16
1H	Wood	New, Reroof (Tear-Off) or Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	16
1I	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	17-19
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	20
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	20-25
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base and Cap Ply	25-28
2D	Steel	New or Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	29-32
2E	Steel	New or Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Base and Cap Ply	33
2F	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	34-43
2G	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Base and Cap Ply	44-48
2H	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1A	Thermal Barrier with Vapor Barrier, Mechanically Attached Insulation, Bonded Roof Cover	49-52
2I	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	53-55
2J	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	55-58
2K	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	58
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	59-67
3B	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base and Cap Ply	67-68
3C	Structural concrete	New, Reroof (Tear-Off) or Recover	F	Non-Insulated, Bonded Roof Cover	69
4A	Lightweight concrete / concrete	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	70-73
4B	Lightweight concrete / steel	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	73
4C	Lightweight concrete / concrete	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	74
4D	Lightweight concrete / steel	New, Reroof (Tear-Off) or Recover	C-2	LWC to Deck, Through-attached Plate-Bonded Roof Cover	75
4E	Lightweight concrete / steel	New, Reroof (Tear-Off) or Recover	D-1	LWC to Deck, Through-attached Mechanically Attached Roof Cover	75-76
4F	Lightweight concrete / concrete	New, Reroof (Tear-Off) or Recover	D-1	LWC to Deck, Through-attached Mechanically Attached Roof Cover	76
4G	Lightweight concrete / steel	New or Reroof (Tear Off)	E	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	77-78
4H	Lightweight concrete / steel	New or Reroof (Tear Off)	F	LWC to Deck, Bonded Roof Cover	79
4I	Lightweight concrete / concrete	New or Reroof (Tear Off)	F	LWC to Deck, Bonded Roof Cover	80-81
4J	Lightweight concrete / concrete	New or Reroof (Tear Off)	F	Temp Roof / Vapor Barrier to Deck, LWC to Temp Roof / Vapor Barrier, Bonded Roof Cover	81
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	82
5B	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	83
5C	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	83
5D	Cementitious wood fiber	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	83
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	84-85
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	85
6C	Existing gypsum	Reroof (Tear-Off)	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	86-88
6D	Existing gypsum	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	88-89
6E	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	89
6F	Existing gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	89
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	90-103
7B	Wood or Steel	Recover	C-2	Plate-Bonded Roof Cover	104
7C	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	105
7D	Various	Recover	F	Non-Insulated, Bonded Roof Cover	106

The following notes apply to the systems outlined herein:

1. The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to ‘as-tested’ conditions under Testing Application Standard TAS 114, Appendix J. Roof decks shall be in accordance with FBC (HVHZ) requirements to the satisfaction of the Authority Having Jurisdiction.
2. Unless otherwise noted, fasteners and stress plates for insulation or base sheet attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood Deck: Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3” Standard Steel Plate, Drill-Tec 3” Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec ASAP 3S, Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3” Metal Plate, Drill-Tec #12 DP Fastener or Drill-Tec #14 HD Fastener with Drill-Tec 3” Flat Steel Plate, Drill-Tec #12 DPH Fastener with Drill-Tec 3” Recessed Steel Plate, Drill-Tec 3” ASAP Flat or Drill-Tec 3” ASAP Recessed. Min. 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
  - Steel Deck: Drill-Tec #12 Fastener, Drill-Tec #14 Fastener or Drill-Tec XHD Fastener with Drill-Tec 3” Standard Steel Plate, Drill-Tec 3” Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec ASAP 3S; Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3” Metal Plate; Drill-Tec Extra Heavy Duty ASAP Roofing Fastener – Insulation, Drill-Tec #12 DP Fastener, Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener with Drill-Tec 3” Flat Steel Plate, Drill-Tec #12 DPH Fastener with Drill-Tec 3” Recessed Steel Plate, Drill-Tec 3” ASAP Flat or Drill-Tec 3” ASAP Recessed. Minimum 0.75-inch steel penetration, engage the top flute of the steel deck.
  - Structural concrete: Drill-Tec #14 Fastener or Drill-Tec CD-10 with Drill-Tec 3” Standard Steel Plate, Drill-Tec 3” Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3” Metal Plate, Drill-Tec #14 HD Fastener with Drill-Tec 3” Flat Steel Plate or Drill-Tec 3” ASAP Flat (#14 only). Minimum 1.25-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer’s published installation instructions.
3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, gypsum-based roof board or mineral wool roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC (HVHZ) 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.

Refer to GAF published installation instructions for details and requirements regarding the use of FBC HVHZ approved polystyrene insulation in EverGuard® roofing systems:

INSULATION:	HIGH TRAFFIC APPLICATIONS:	RECOVER APPLICATIONS:
<ul style="list-style-type: none"> <li>➤ FBC HVHZ approved Expanded polystyrene (EPS) meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IX, nominal 1.8 lb/ft2 density and minimum 25 psi compressive strength.</li> <li>➤ FBC HVHZ approved Expanded polystyrene (EPS) with plastic facer meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IX, nominal 1.8 lb/ft2 density and minimum 25 psi compressive strength.</li> </ul>	<ul style="list-style-type: none"> <li>➤ FBC HVHZ approved Extruded polystyrene (XPS) meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IV, minimum 1-inch thick and minimum 25 psi compressive strength.</li> <li>➤ FBC HVHZ approved Expanded polystyrene (EPS) with plastic facer meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IX, minimum 1-inch thick and minimum 25 psi compressive strength.</li> </ul>	<ul style="list-style-type: none"> <li>➤ FBC HVHZ approved XPS Fan-Fold Recover Board with plastic facer meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IV, 3/8-inch thick and minimum 25 psi compressive strength.</li> <li>➤ FBC HVHZ approved EPS Recover Board meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IX, 1/2-inch thick and minimum 25 psi compressive strength.</li> <li>➤ FBC HVHZ approved EPS Recover Board with plastic facer meeting or exceeding Testing Application Standard TAS 110 and ASTM C578, Type IX, 1/2-inch thick and minimum 25 psi compressive strength.</li> </ul>

FireOut™ Fire Barrier Coating, VersaShield® Fire-Resistant Roof Deck Protection or VersaShield® Solo™ Fire-Resistant Slip Sheet, installed in accordance with GAF published installation instructions and fire resistance certification listings, may be used as a non-load-bearing, fire-barrier / slip-sheet component within any system outlined herein.

4. If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137. Calculations shall be prepared, signed and sealed by a qualified design professional.
5. Preliminary insulation attachment for System Type C-2 and D = Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.
6. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer’s published instructions.
  - Hot Asphalt (HA): Full mopping, 25-30 lbs/square.
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): Continuous 2.5 to 3.5-inch ribbons, 12-inch o.c.
  - LRF Adhesive M (LRF-M): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
  - OlyBond Adhesive Fastener (Classic): Full coverage, 1 gal/square.
  - OlyBond 500 (OB500): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c. using PaceCart, SpotShot or Canister delivery methods. *Note: OlyBond Classic or OlyBond 500 Green may be used in place of OB500 when used to bond insulation or coverboards.*

- *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
  - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*
7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.
    - Hot Asphalt (HA): MDP = -240.0 psf (Min. 0.5-inch thick)
    - GAF 2-Part Roofing Adhesive (GAF 2-Part): MDP = -117.5 psf (Min. 1.0-inch thick)
    - LRF Adhesive M (LRF-M): MDP = -232.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation)
    - OlyBond 500 (OB500): MDP = -315.0 psf (Min. 0.5-inch thick EnergyGuard RH or RN)
    - OlyBond 500 (OB500): MDP = -487.5 psf (Min. 0.5-inch thick EnergyGuard RA)
    - OlyBond 500 (OB500): MDP = -292.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation)
  8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
  9. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased, as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137 by a qualified design professional. ***\*This extrapolation is not permitted for systems marked with an asterisk\*.***
  10. For assemblies marked with an asterisk\*, the maximum design pressure (MDP) limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters and corners). Neither rational analysis, nor extrapolation is permitted for enhanced attachment at enhanced pressure zones (i.e., perimeters, corners and extended corners).
  11. Fastener spacing for mechanical attachment is based on a minimum fastener resistance value in conjunction with the maximum design pressure (MDP) listed for a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing – prepared, signed and sealed by a qualified design professional – may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standard TAS 105 and calculations in compliance with Roofing Application Standard RAS 117 or RAS 137.
  12. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with Testing Application Standard TAS 124.
  13. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
  14. For recover installations, the existing roof shall be examined in accordance with FBC 1521. For Recover Applications using System Type C-2 or or System Type D, the insulation is optional. Alternatively, a separator board may be installed prior to roof cover installation when using System Type C-2 or System Type D, or a separator sheet may be installed prior to roof cover installation when using any System Type D. The separator component shall be documented as meeting FBC (HVHZ) 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
    - Separator Board Options for Recover System Type C-2 or System Type D: Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard RA, EnergyGuard RN, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation, Structodeck High Density Fiberboard Roof Insulation, EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard NH HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation or EnergyGuard NH HD Plus Polyiso Insulation or min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board.
    - Separator Sheet Options for Recover System Type D: EverGuard Polymat Separation Layer (3 oz/yd<sup>2</sup>) or EverGuard Polymat Cushioning Layer (6 oz/yd<sup>2</sup>).
  15. Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC NOA or HVHZ Product Approval for specific deck construction and limitations. For systems where specific LWC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Unless otherwise noted, use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.



16. For adhesive-applied membrane systems, side laps shall be minimum 3-inch wide sealed with min. 1.5-inch heat weld. Unless otherwise noted, membrane adhesive application rates are as follows:

GAF ROOF COVER / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	METHOD	RATE
EverGuard TPO	EverGuard TPO #1121 Bonding Adhesive (#1121)	Contact (both sides)	0.8 to 1.0 gal/square/surface. For use over SECUROCK Gypsum-Fiber Roof Board, the application rate changes to 1.2 to 1.67 gal/sq/surface
EverGuard TPO	EverGuard WB181 Bonding Adhesive (WB181)	Contact (both sides)	To polyisocyanurate or Structodek High Density Fiberboard Roof Insulation, Fiber Base HD1 or Fiber Base HD6 at 0.63 gal/square and roof cover underside at 0.21 gal/square. To Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board at 0.63 to 0.75 gal/square and roof cover underside at 0.21 to 0.25 gal/square
EverGuard TPO	EverGuard Low VOC TPO Bonding Adhesive (L-VOC)	Contact (both sides)	0.46 gal/square/surface
EverGuard TPO	EverGuard TPO 3 Square Low VOC Bonding Adhesive (TPO 3-Square)	Contact (both sides)	0.84 gal/square/surface
EverGuard TPO FB Ultra	Hot asphalt	Wet lay (substrate)	25 lbs/square
EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive (WB181)	Wet lay (substrate)	0.83 to 1.0 gal/square
EverGuard TPO FB Ultra	GAF LRF Adhesive M (LRF-M) or LRF Adhesive O (LRF-O)	Wet lay (substrate)	1-inch wide ribbons spaced as noted in tables herein. Note: The adhesive ribbons are located directly over the adhesive ribbons used to secure the insulation when the cover is bonded to insulation less than 1.5-inch thick.
EverGuard TPO FB Ultra	GAF 2-Part Roofing Adhesive (GAF 2-Part)	Wet lay (substrate)	"Spatter pattern" at 3.75 lbs/sq.
EverGuard TPO FB Ultra	OlyBond 500	Wet lay (substrate)	"Spatter pattern" at 0.32 gal/square (to insulation or coverboard) "Spatter pattern" at 0.83 gal/square (to asphaltic base ply membrane).

17. Vapor barrier options for over **structural concrete deck** with adhered insulation carry the following Maximum Design Pressure (MDP) limitations. The lesser of the MDP listings below vs. those in **Table 3A or 3B** applies:

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A AND 3B					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)*
		TYPE	ATTACH		
VB-1.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	Hot asphalt	-360.0
VB-2.	GAF SA Primer	Ruberoid SA Universal Base	Self-adhering	GAF 2-Part, 12-inch o.c.	-157.5
VB-3.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule	Torch-applied	GAF 2-Part, 12-inch o.c.	-169.0
VB-4.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	GAF 2-Part, 12-inch o.c.	-180.0
VB-5.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	GAF 2-Part, 12-inch o.c.	-202.5
VB-6.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	GAF 2-Part, 12-inch o.c.	-250.0
VB-7.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-262.5
VB-8.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 30	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-270.0
VB-9.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	LRF-M, 12-inch o.c.	-157.5
VB-10.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	LRF-M, 12-inch o.c.	-180.0
VB-11.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	LRF-M, 12-inch o.c.	-202.5
VB-12.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	LRF-M, 12-inch o.c.	-495.0
VB-13.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-157.5
VB-14.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-165.0
VB-15.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-180.0
VB-16.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-187.5

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A AND 3B					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)*
		TYPE	ATTACH		
VB-17.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 20 Smooth	Matrix 102 SBS Membrane Adhesive at 1.5 gal/square	OlyBond 500, 12-inch o.c.	-202.5
VB-18.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	OlyBond 500, 12-inch o.c.	-202.5
VB-19.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule	Torch-applied	OlyBond 500, 12-inch o.c.	-225.0
VB-20.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-232.5
VB-21.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	OlyBond 500, 12-inch o.c.	-352.5

18. Side laps for EverGuard Freedom TPO with RapidSeam Technology are self-adhering. Side laps for EverGuard Freedom TPO HW are heat welded. Unless otherwise noted, reference to EverGuard Freedom TPO in this Appendix relates to either method.
19. The “Triposite Roofing System” noted herein consists of loose-laid GAFGLAS Stratavent Perforated Venting Base Sheet, followed by asphalt-applied two (2) plies of Ruberoid 20 Smooth or three (3) plies of GAFGLAS FlexPly 6, followed by asphalt-applied 80-mil EverGuard TPO FB Ultra with 1-5/8” heat welded side laps.
20. Unless otherwise noted, the “Hybrid Roofing System” noted herein consists of asphalt-applied Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet or GAFGLAS #80 Ultima Base Sheet followed by asphalt-applied EverGuard TPO FB Ultra.
21. EverGuard Extreme TPO may be used as an alternate to EverGuard TPO. EverGuard Extreme TPO FB Ultra may be used as an alternate to EverGuard TPO FB Ultra.
22. The following insulations are interchangeable within the scope of this Evaluation Report:
  - EnergyGuard Polyiso Insulation ⇔ EnergyGuard NH Polyiso Insulation;
  - EnergyGuard Ultra Polyiso Insulation ⇔ EnergyGuard NH Ultra Polyiso Insulation;
  - EnergyGuard HD Polyiso Insulation ⇔ EnergyGuard NH HD Polyiso Insulation;
  - EnergyGuard HD Plus Polyiso Insulation ⇔ EnergyGuard NH HD Plus Polyiso Insulation.
23. GAF SA Vapor Retarder may be installed atop the roof deck prior to installation of the insulation for System Type B-1 (Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover), Type C-1 (Mechanically Attached Insulation, Bonded Roof Cover) or Type C-2 (Plate Bonded Roof Cover). Substrate shall be primed with GAF SA Primer, if required by GAF published installation instructions. Refer to FM Loss Prevention Data Sheet 1-29 (January 2016) for design and installation recommendations and GAF fire resistance certification listings for internal fire requirements.
24. “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and RAS 128 for determination of design wind loads.

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base Ply	Cap	
W-1.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-2.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-3.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-4.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-5.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-6.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base Ply	Cap	
W-7.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-8.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-9.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*
W-10.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-11.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-12.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base Ply	Cap	
W-13.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-14.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-15.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*



**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base Ply	Cap	
W-16.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-17.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-18.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-19.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-20.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*
W-21.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base Ply	Cap	
W-22.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-23.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-24.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5*

**TABLE 1C: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOMTPO APPLICATIONS:</b>								
W-25.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-52.5
<b>EVERGUARD TPO APPLICATIONS:</b>								
W-26.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
W-27.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 3" o.c.	Min. 3-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / #1121	-120.0
<b>EVERGUARD TPO FB ULTRA APPLICATIONS:</b>								
W-28.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-29.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 3" o.c.	Min. 3-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
<b>EVERGUARD TPO:</b>								
W-30.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-31.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-32.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-33.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-52.5
W-34.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-52.5
W-35.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
W-36.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
W-37.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 1.33 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
<b>EVERGUARD TPO FB ULTRA:</b>								
W-38.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
W-39.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
W-40.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-41.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
W-42.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-43.	Min. 19/32-inch plywood at max. 2 ft spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-44.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #14 with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	1 per 1.78 ft <sup>2</sup>	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or One or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter)	-60.0
W-45.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 1.33 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-46.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 with Drill-Tec AccuTrac Flat Plate	1 per 1.33 ft <sup>2</sup> 12 parts per 4 x 4 ft board	None	EverGuard TPO FB Ultra in hot asphalt	-82.5

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Spacing		
W-47.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec #14 Fastener and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.67 ft <sup>2</sup> (12 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-48.	Min. 19/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-49.	Min. 19/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
W-50.	Min. 19/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.; 8d ring shank nails, 6" o.c. at edges and 12" o.c. at intermediate supports.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
W-51.	Min. 19/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.; 8d ring shank nails, 3" o.c.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	9-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-90.0
W-52.	Min. 19/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.; 8d ring shank nails, 3" o.c.	One or more layers, any combination, min. 1-inch (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment into joist) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	9-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-105.0

**TABLE 1F: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
W-53.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d common nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-54.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d common nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-55.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-52.5
W-56.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1.5-inch embedment into joist	6-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5
W-57.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5

**TABLE 1G: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 14)		Base or Anchor Sheet			Roof Cover	MDP (psf)
		Type	Attach	Base	Fasteners	Attach		
W-58.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails, 6" o.c. at edges and 6" o.c. at intermediate supports	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3" Steel Plate or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0*
W-59.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails, 6" o.c. at edges and 6" o.c. at intermediate supports	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-60.0*

**TABLE 1H: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Roof Cover			MDP (psf)
		Membrane	Fasteners	Attachment	
W-60.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d common nails 6" o.c.	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-61.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d common nails 6" o.c.	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-62.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-60.0
W-63.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1.5-inch embedment into joist	6-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5
W-64.	Min. 19/32-inch (new) or min. 15/32-inch (existing) plywood or wood plank over No. 2 wood trusses at max. 2 ft spans; 8d ring shank nails 6" o.c.	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch embedment into joist	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-75.0



**TABLE 1: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
<b>SELF-ADHERING ROOF COVER:</b>							
W-65.	Min. 19/32-inch plywood or wood plank; 24" spans; #8 screws 6" o.c.	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0
W-66.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	32 ga., 1-5/8-inch diameter tin caps with 12 ga. x 1.25-inch annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*
W-67.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*
W-68.	Min. 19/32-inch plywood; 24" spans; 8d ring shank nails, 6" o.c.	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-67.5*
W-69.	Min. 19/32-inch plywood or wood plank; 24" spans; #10 screws 6" o.c.	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Steel Plates or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec #14 HD Fastener with Drill-Tec 3" Flat Steel Plate	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-105.0*
<b>HYBRID SYSTEM:</b>							
W-70.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-71.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-72.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5

**TABLE 1: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
W-73.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
W-74.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-60.0
W-75.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-75.0
W-76.	Min. 19/32-inch plywood; 24-inch span; 8d ring shank nails, 3" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-77.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-78.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-79.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-80.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
W-81.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-82.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-83.	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-84.	Min. 19/32-inch plywood; 24-inch span; 8d ring shank nails, 3" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5
W-85.	Min. 15/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5

**TABLE 2A: STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach		
S-1.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500 or LRF-M, 6" o.c.	None	N/A	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-120.0*
S-2.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500 or LRF-M, 6" o.c.	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
<b>EVERGUARD TPO FBEDOM / SELF-ADHERED:</b>								
S-3.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-4.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-5.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-6.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-7.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-8.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-9.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard RA EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-60.0
<b>EVERGUARD TPO:</b>								
S-10.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-11.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-12.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	One or more layers of Base Insulation or min. 0.5-inch thick Dens Deck	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-13.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.5-inch Dens Deck	Note 2	1 per 2 ft <sup>2</sup>	One or more layers, min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-14.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Fiber Base HD1, Fiber Base HD6	OB500	EverGuard TPO / WB181	-45.0*
S-15.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-16.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-17.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-18.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-19.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-20.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-21.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-22.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-23.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-24.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-25.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-26.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	Min. 3-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO / #1121	-120.0
S-27.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>								
S-28.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-29.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-30.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-31.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-32.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-60.0
S-33.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-34.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-35.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-36.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-37.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-60.0
S-38.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-39.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-40.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-60.0
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>								

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-41.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-42.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-43.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-44.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-45.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-46.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-47.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-48.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-49.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-50.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-51.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-52.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-53.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>								
S-54.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-55.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-56.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 1.5-inch x max. 4x4 ft base insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-57.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Optional layers of min. 1.5-inch x max. 4x4 ft base insulation followed by min. 0.25-inch x max. 4x4 ft Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD Polyiso Insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-58.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-59.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD Polyiso Insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-60.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	Min. 3-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0
S-61.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*



**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-62.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-63.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-64.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-65.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-66.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

‡ NOTE: As-Tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2A-1 assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>									
S-67.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck † (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
S-68.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-69.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-70.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA	Note 2	1 per 5.3 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-71.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-72.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-73.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>TORCH-APPLIED BASE PLY:</b>									
S-74.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>SELF-ADHERING BASE PLY:</b>									
S-75.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional layer(s), min. 0.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-76.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	Additional layer(s), min. 0.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-77.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-78.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-79.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers, min. 1-inch thick base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-80.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	Optional additional layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-81.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck ‡ (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
S-82.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers, min. 1.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-83.	Min. 22 ga., type B, Grade 50 steel; 6 ft span, 5/8" puddle welds, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-84.	Min. 22 ga., type B, Grade 50 steel; 6 ft span, 5/8" puddle welds, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-85.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-86.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-87.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-88.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-89.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

‡ NOTE: As-Tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2A-1 assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOM TPO:</b>									
S-90.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-91.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-92.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-93.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-60.0
<b>EVERGUARD TPO:</b>									
S-94.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / EverGuard TPO #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-95.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-96.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-97.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck	Note 2 (no recessed plate)	1 per 4 ft <sup>2</sup>	Two plies GAFGLAS Ply 4, applied in hot asphalt	Min. 1.5-inch EnergyGuard RA	HA or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-98.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-99.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, #1121, TPO 3-Square, WB181	-45.0*
S-100.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-101.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-102.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / L-VOC	-52.5
S-103.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-67.5

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-104.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek's 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-67.5
<b>EVERGUARD TPO FB ULTRA:</b>									
S-105.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-106.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-107.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-108.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-109.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-110.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-111.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 ( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof / Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-112.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181	-52.5
S-113.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-114.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.) or LRF-O (12-inch o.c.)	-60.0
S-115.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (4-inch o.c.), LRF-O (4-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5



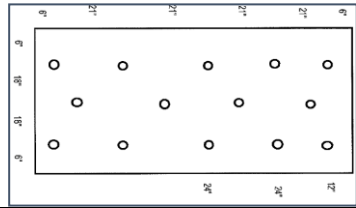
**TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)		MDP (psf)
		Type	Fastener	Attach		Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>										
S-116.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-117.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-118.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-119.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-120.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-121.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) (no recessed plate)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	GAF 2-Part, LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5

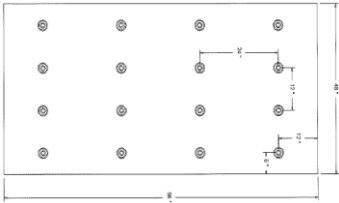
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-122.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-123.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-124.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-125.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-126.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
S-127.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (#14 only)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
S-128.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0
S-129.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.33 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0
S-130.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-75.0
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-131.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 ( <i>Drill-Tec 3" Standard Steel Plate only</i> )	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-132.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 ( <i>Drill-Tec 3" Steel Plate or Drill-Tec 3" Flat Steel Plate only</i> )	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-133.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-134.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck or Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-135.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck or Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-136.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-137.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-138.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 19/32-inch plywood	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-139.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 19/32-inch plywood	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-140.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-141.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-142.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / #1121, TPO 3-Square	-45.0
S-143.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-144.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-145.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-146.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5
S-147.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-148.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation	Note 2 	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-149.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-150.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-151.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-152.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-153.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, two (2) Traxx/5 screws 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-97.5
S-154.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121	-127.5

**EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:**

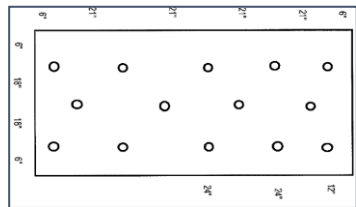
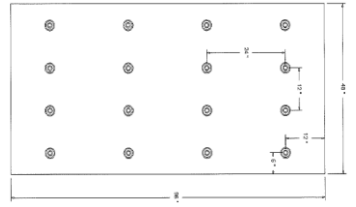
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-155.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-156.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-157.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-158.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-159.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-160.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-161.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-162.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-163.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-164.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-165.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-166.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5
S-167.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-168.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or struct. conc.	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-75.0
S-169.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-82.5
S-170.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-127.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-171.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate only)	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-172.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Steel Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-173.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-174.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-175.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-176.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-177.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-178.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
S-179.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-180.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

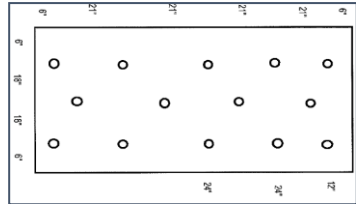
System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-181.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
S-182.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-183.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-184.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-185.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-60.0
S-186.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation	Note 2 	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-60.0
S-187.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-188.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-189.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

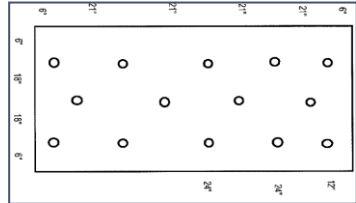
System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-190.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-191.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-75.0
S-192.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, two (2) Traxx/5 screws 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-127.5
<b>TRIPPOSITE ROOFING SYSTEM:</b>							
S-193.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 2.0 ft <sup>2</sup>	Triposite System / Note 19	-45.0*
S-194.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Triposite System / Note 19	-45.0*
<b>HYBRID ROOFING SYSTEM:</b>							
S-195.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	Hybrid System / Note 20	-45.0*
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
S-196.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-197.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-198.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-199.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-200.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-67.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							



**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-201.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-202.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
S-203.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-204.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.75-inch ACFoam Composite/GB	Note 2	1 per 5.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-205.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate, AccuTrac Flat Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-206.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3" Standard Steel Plate, AccuTrac Flat Plate or Drill-Tec 3" Flat Steel Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-207.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2 (Drill-Tec 3" Steel Plate only)	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-208.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-209.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
S-210.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-211.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-212.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-213.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-214.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-215.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-67.5
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
S-216.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-217.	Min. 22 ga., Type B, Grade 33 steel, 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
S-218.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-219.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-220.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-221.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
S-222.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5
S-223.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c. or structural concrete	(Optional for recover) One or more layers, min. 1.5-inch, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5

‡NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2B-1A assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
S-224.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 4 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-225.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-226.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-227.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.33 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>TORCH-APPLIED BASE PLY:</b>								

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
S-228.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 4 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-229.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-230.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-231.	Min. 22 ga., type B, Grade 40 steel; 6' span, 5/8-inch puddle welds 6" o.c. or structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	Ruberoid HW 25 Smooth, Ruberoid HW Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
S-232.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate, Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate or Drill-Tec #12 DPH Fastener (steel only) with Drill-Tec 3" Recessed Steel Plate	1 per 1.33 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>								
S-233.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 4 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-234.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 3.2 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-235.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2.7 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-236.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-237.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-238.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra	Note 2 (no recessed plate)	1 per 3.2 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
S-239.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-240.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.6 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-241.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.78 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-242.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.6 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-243.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener (steel only), Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec #12 DP Fastener (steel only), Drill-Tec #14 HD Fastener or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 3" Flat Steel Plate	1 per 1.33 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
S-244.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2 (#14 only) (no recessed plate)	1 per 1.78 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-245.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.33 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
S-246.	Min. 22 ga., type B, Grade 50 steel; 6 ft span, 5/8" puddle welds, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.78 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-247.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.45 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-248.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.33 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-249.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.33 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-250.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch EnergyGuard Polyiso Insulation. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.78 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-251.	Min. 22 ga., type B, Grade 33 steel; 6' span, Traxx/5 or Tek/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2 (no recessed plate)	1 per 1.33 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5



**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-252.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-253.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (no recessed plate)	1 per 4 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-254.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-255.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2 (no recessed plate)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-256.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (#14) (no recessed plate)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-257.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-258.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-259.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-260.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-261.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-262.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-263.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-264.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-265.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-266.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-267.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-268.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-269.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-270.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-271.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-272.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

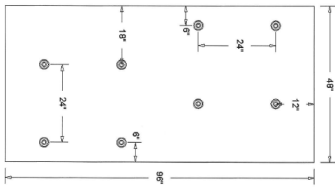
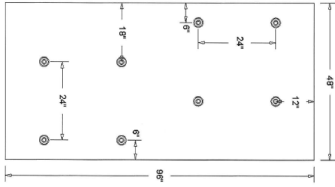
System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-273.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-274.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-275.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-276.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-277.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-278.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-279.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-280.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-281.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-282.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-283.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

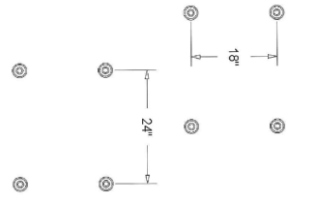
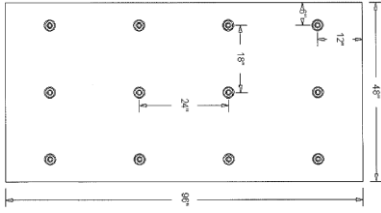
System No.	Deck‡ (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-284.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-285.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-286.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-287.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
S-288.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-289.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-290.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*
S-291.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, Traxx/5 or Tek/5 screw 6" o.c. or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0

‡NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table 2B-1B assemblies to a maximum design pressure of -82.5 psf. Note 1.

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Insulation Layer (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-292.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edge and 12- and 48-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-293.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 8 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edge and 12- and 48-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-294.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 4 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-295.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 4 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 4 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-296.	Min. 22 ga., Type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 12-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
S-297.	Min. 20 ga., Type B, Grade 33 steel; 7' spans, 5/8" puddle weld 6" o.c.	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
S-298.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, 5/8" puddle weld 6" o.c.	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Insulation Layer (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-299.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination	Drill-Tec SXHD and Drill-Tec RhinoBond TPO SXHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO SXHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-300.	Min. 2,500 psi structural concrete	One or more layers, any combination	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-301.	Min. 22 ga., Type B, Grade 33 steel; 6' spans, two (2) Traxx/5 screws with 0.75" washers, 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-302.	Min. 22 ga., type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.67 ft <sup>2</sup> (12 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-303.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	18 x 24 inch staggered grid 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
S-304.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.67 ft <sup>2</sup> (12 parts per 4 x 8 ft board) 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
S-305.	Min. 22 ga., type B, Grade 80 steel; 6' spans, two (2) Traxx/5 screws with 0.75" washers, 6" o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck‡ (Note 1)	Insulation Layer (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-306.	Min. 22 ga., type B, Grade 60 steel; 6 ft span, 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 2-inch	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	18 x 16 inch grid, staggered 6-inch	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-105.0

‡ NOTE: As-tested steel deck performance under Testing Application Standard TAS 114, Appendix J indicates steel deck at max. 6' spans attached with 5/8" diameter puddle welds spaced 6" o.c. may be substituted for Tek/5 screws or Traxx/5 screws in the Table C-2 assemblies up to a maximum design pressure of -67.5 psf. Note 1.

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
<b>EVERGUARD TPO:</b>							
S-307.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
S-308.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with with Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/8 in. Barbed XHD Plates; or Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-309.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-310.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-311.	Min. 20 ga., type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-312.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 12-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
S-313.	Min. 20 ga., type B, Grade 80 steel; 6 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-314.	Min. 22 ga., type B, Grade 60 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-315.	Min. 22 ga., type B, Grade 80 steel; 5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-316.	Min. 18 ga., type B, Grade 33 steel; 4.5 ft span; Tek 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-317.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates, Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/4 in. Barbed SXHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-318.	Min. 22 ga., type B, Grade 40 steel; Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-319.	Min. 22 ga., type B, Grade 40 steel; 5/8" puddle welds or Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5



**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
S-320.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screws or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-321.	Structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach or OB500	EverGuard TPO	Drill-Tec #14 or Drill-Tec CD-10 fasteners with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec Eyehook AccuSeam Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-322.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-323.	Min. 18 ga., type B, Grade 80 steel; 6 ft span; Teks 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-324.	Min. 20 ga., type B, Grade 80 steel; 5.5 ft span; Teks 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-325.	Min. 22 ga., type B, Grade 80 steel; 4.5 ft span; Teks 5 screws, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-326.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-327.	Min. 22 ga., type B, Grade 40 steel; 5/8" puddle welds or Hilti X-HSN 24, 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-328.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-329.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw or 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-330.	Min. 22 ga., type B, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
S-331.	Min. 18 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screws 6" o.c.	One or more layers, min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Five (5) fasteners/ plates per 4 x 4 ft board	EverGuard TPO	Drill-Tec XHD Fasteners with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-90.0
<b>EVERGUARD TPO FB ULTRA:</b>							
S-332.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener (steel only) or Drill-Tec #14 HD Fastener (concrete only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
S-333.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener (steel only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate or Drill-Tec #15 EHD Fastener (steel only) or Drill-Tec #14 HD Fastener (concrete only) with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 2K: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 14)		Base or Anchor Sheet			Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Base	Fasteners	Attach		
S-334.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2 (no recessed plate)	12-inch o.c. at min. 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0
S-335.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2 (no recessed plate)	18-inch o.c. at min. 4-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-52.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOM TPO</b>							
C-1.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5*
C-2.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-232.5*
C-3.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-382.5*
C-4.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard Freedom TPO / self adhered	-97.5*
C-5.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-232.5*
C-6.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-292.5*
C-7.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-52.5*
C-8.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5*
C-9.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5*
C-10.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-127.5*
C-11.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	-	EverGuard Freedom TPO / self adhered	-230.0*
C-12.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-232.5*
C-13.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard Freedom TPO / self adhered	-292.5*
C-14.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-347.5*
C-15.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-382.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
C-16.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime or Min. 19/32-inch plywood	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-17.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-82.5*
C-18.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
C-19.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-20.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-21.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
C-22.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5*
C-23.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5*
C-24.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-97.5*
C-25.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-162.5*
C-26.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-27.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-239.5*
C-28.	Structural concrete	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0*
C-29.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0*
C-30.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-52.5*
C-31.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-32.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5*
C-33.	Structural concrete	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
C-34.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-127.5*
C-35.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
C-36.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-232.5*
C-37.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-240.0*
C-38.	Structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-247.5*
C-39.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-292.5*
C-40.	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-502.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE</b>							
C-41.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot asphalt	(Optional) Additional layer of base insulation	Hot asphalt	EverGuard TPO / WB181	-135.0*
C-42.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
C-43.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-232.5*
C-44.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0*
C-45.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / WB181	-97.5*
C-46.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO / WB181	-112.5*
C-47.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-162.5*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-48.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-232.5*
C-49.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / WB181	-292.5*
C-50.	Structural concrete	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-45.0*
C-51.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-45.0*
C-52.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-52.5*
C-53.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-97.5*
C-54.	Structural concrete	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0*
C-55.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0*
C-56.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-135.0*
C-57.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	None	N/A	EverGuard TPO / WB181	-215.0*
C-58.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-232.5*
C-59.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / WB181	-292.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
C-60.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-61.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-62.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-63.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-64.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-65.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-66.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-67.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-162.5*
C-68.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-69.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*
C-70.	Structural concrete	Min. 0.5-inch EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-360.0*
C-71.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-72.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-73.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
C-74.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
C-75.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-76.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
C-77.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-127.5*
C-78.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-232.5*
C-79.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-80.	Structural concrete	Min. 1-inch EnergyGuard RH	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-502.5*
<b>TRIPOSITE ROOFING SYSTEM:</b>							
C-81.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	Hot Asphalt	(Optional) Additional layers of base insulation	Hot asphalt	Triposite System. Note 19	-172.5*
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
C-82.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Hot Asphalt	Min. 0.25-inch Dens Deck	Hot asphalt	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
C-83.	Structural concrete (primed)	Min. 1-inch EnergyGuard RH	Hot asphalt	None	N/A	EverGuard TPO FB Ultra / Hot asphalt	-470.0*
C-84.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck	OB500	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
<b>EVERGUARD TPO FB ULTRA IN WB181:</b>							
C-85.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-232.5*
C-86.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-97.5*
C-87.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-232.5*
C-88.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-292.5*
C-89.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-52.5*
C-90.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-97.5*
C-91.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-97.5*
C-92.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-127.5*
C-93.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-225.0*



**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-94.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-232.5*
C-95.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-240.0*
C-96.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-292.5*
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
C-97.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-98.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-99.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-100.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-101.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*
C-102.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-103.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	LRF-M	Min. 1.75-inch ACfoam Composite/GB	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-104.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-105.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-106.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-107.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-108.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-109.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RN, EnergyGuard RM	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-110.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-111.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*
C-112.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-210.0*
C-113.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-114.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	OB500	Min. 1.75-inch ACfoam Composite/GB	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-115.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-116.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-117.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-118.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
C-119.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-120.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
C-121.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-122.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-123.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
C-124.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0*
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
C-125.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-126.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-127.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*
C-128.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-129.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-130.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*
C-131.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-132.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
C-133.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0*

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE AND CAP PLY**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
C-134.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE AND CAP PLY**

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
C-135.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*
<b>TORCH-APPLIED BASE PLY:</b>								
C-136.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-137.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*
<b>SELF-ADHERING BASE PLY:</b>								
C-138.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0*
C-139.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	LRF-M, OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-97.5
C-140.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	LRF-M, OB500 or GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0
C-141.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	(Optional) Additional layer(s) base insulation. Top surface primed with GAF SA Primer.	LRF-M, OB500 or GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-127.5
C-142.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0*

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Roof Cover (Note 16)	MDP (psf)
C-143.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
C-144.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / WB181	-300.0*
C-145.	Min. 3,000 psi structural concrete primed with Matrix 307 Premium Asphalt Primer.	EverGuard TPO FB Ultra / Hot asphalt	-390.0*
C-146.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / OlyBond 500 (spattter)	-435.0*
C-147.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / GAF 2-Part (spattter)	-497.5*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)	MDP (psf)
			Type	Attach	Type	Attach		
<b>CELCORE (NOA 18-0717.05):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-1.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-2.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-3.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
LWC-4.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-5.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-6.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-7.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-8.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5*
<b>ELASTIZELL (NOA 18-0208.03):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-9.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5*
LWC-10.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0*
LWC-11.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-180.0*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-12.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)	MDP (psf)
			Type	Attach	Type	Attach		
LWC-13.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-14.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0*
LWC-15.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0*
LWC-16.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-17.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-18.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0*
LWC-19.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0*
LWC-20.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-180.0*
LWC-21.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-22.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-23.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-24.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-25.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastzell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>								
<b>EVERGUARD FREEDOM TPO</b>								
LWC-26.	Structural concrete	Min. 250 psi Mearlcrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-75.0*
LWC-27.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-240.0*

**TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)	MDP (psf)
			Type	Attach	Type	Attach		
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-28.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
LWC-29.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-30.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
LWC-31.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-240.0*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
LWC-32.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
LWC-33.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-240.0*



**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: LWC TO DECK, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck* (Note 1)	LWC (Note 15)	Anchor Sheet			Insulation			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Cap Ply	
<b>CELCORE (NOA 18-0717.05):</b>											
LWC-34.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard Freedom TPO / Self-adhered	-45.0
LWC-35.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	None	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0
LWC-36.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO / WB181	-45.0
LWC-37.	Min. 22 ga., Type BV, Grade 33 steel at max. 6' spans	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO FB Ultra / WB181	-45.0

\* For steel deck application where specific deck attachment is not referenced, 'as tested' attachment was not less than 5/8" puddle welds with weld-washers or Tek/5 screws spaced 6" o.c. Note 1.

**TABLE 4C: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: LWC TO DECK, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Insulation			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Cap Ply	
<b>CELCORE (NOA 18-0717.05):</b>											
LWC-38.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard Freedom TPO / Self-adhered	-45.0
LWC-39.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	None	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0
LWC-40.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO / WB181	-45.0
LWC-41.	Structural concrete	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO FB Ultra / WB181	-45.0

**TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: LWC TO DECK, MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
				Fasteners (Note 4)	Density		
LWC-42.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates, through to engage steel deck	Max. 24-inch o.c. in rows spaced max. 30-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5

**TABLE 4E: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck* (Note 1)	LWC (Note 15)	Insulation		Roof Cover			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4)	Attachment	
LWC-43.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
LWC-44.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
LWC-45.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened through to engage structural deck, 12-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
LWC-46.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
LWC-47.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 200 psi, min. 3-inch thick Elastizell	(Optional) One or more layers, any combination, min. 1-inch	Prelim. Attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
LWC-48.	Min. 22 ga., type B, Grade 33 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 4E: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck* (Note 1)	LWC (Note 15)	Insulation		Roof Cover			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4)	Attachment	
LWC-49.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #15 EHD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-50.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-51.	Min. 22 ga., type B, Grade 80 steel; 6' spans, Traxx/5 screw 6" o.c.	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
LWC-52.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Min. 200 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete.	(Optional) One or more layers, any combination, min. 0.25-inch	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2-3/4 in. SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
LWC-53.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	None	N/A	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	Fastened through to engage structural deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
LWC-54.	Min. 22 ga., type BV (0.5%), Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Min. 200 psi, min. 3-inch thick Elastizell Lightweight Insulating Concrete	None	N/A	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates (to engage steel deck)	Fastened through to engage steel deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-75.0

**TABLE 4F: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-1: LWC TO DECK, MECHANICALLY ATTACHED ROOF COVER (THROUGH LWIC TO ENGAGE STRUCTURAL DECK)**

System No.	Deck* (Note 1)	LWC (Note 15)	Insulation		Roof Cover			MDP (psf)
			Type	Attach	Membrane	Fasteners (Note 4)	Attachment	
LWC-55.	Min. 2,500 psi structural concrete	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec #14 Fasteners with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
LWC-56.	Min. 2,500 psi structural concrete	FBC HVHZ approved cellular lightweight insulating concrete	(Optional) One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec #14 Fasteners with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec #14 HD Fastener with Drill-Tec 2.4" Barbed Seam Plate or Drill-Tec 2.4" Scoop Seam Plate	Fastened through to engage structural deck, 6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0

**TABLE 4G: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck* (Note 1)	LWC (Note 15)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners (Note 4)	Attach	Base	Cap	
<b>CELCORE (NOA 18-0717.05):</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-57.	Min. 22 ga., type B, Grade 33 vented steel; 5 ft spans; 5/8" puddle welds & washers or Traxx/4 or 5 screws 6" o.c.	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Tri-Flex 30	Drill-Tec CR Base Sheet Fasteners	9-inch o.c. in the 4-inch lap and 9-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
<b>MEARLCRETE (NOA 18-0829.06):</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-58.	Min. 22 ga., type B, Grade 33 vented steel; 6 ft spans; 5/8" puddle welds & washers or Traxx/4 or 5 screws 6" o.c.	Min. 300 psi, min. 2-inch thick Mearlcrete	GAF StormSafe Anchor Sheet	Drill-Tec Locking Impact Nail, min. 1.8-inch	7.5-inch o.c. in the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
<b>PRE-EXISTENT CELLULAR LWC (NOTE 15):</b>								
<b>SELF-ADHERING ROOF COVER:</b>								
LWC-59.	Min. 22 ga., type B, Grade 33 vented steel; 6 ft spans; 5/8" puddle welds 6" o.c.	Min. 250-300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete	GAF StormSafe Anchor Sheet	Drill-Tec #12 screws and 3" Drill-Tec AccuTrac Plates (engage steel deck)	12-inch o.c. at the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-45.0
<b>HYBRID SYSTEMS:</b>								
LWC-60.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve MCRF of 60 lbf or greater when tested per TAS105.</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
LWC-61.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve MCRF of 60 lbf or greater when tested per TAS105.</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 4G: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck* (Note 1)	LWC (Note 15)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners (Note 4)	Attach	Base	Cap	
LWC-62.	Min. 22 ga., type B, Grade 50 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c.	Min. 180 psi, min. 3-inch thick pre-existent cellular lightweight concrete.	Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth	Drill-Tec XHD Fastener with Drill-Tec 2-3/8 in. Barbed XHD Plate or Drill-Tec Eyehook AccuSeam Plate, fastened through LWC to engage steel deck	Fasteners located 3.75-inch from edge of sheet, and spaced 12-inch o.c. within the min. 6.25-inch wide laps. Laps sealed with min. 4-inch wide heat-weld, encapsulating the fastener row	(Optional) Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
LWC-63.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve MCRF of <b>95 lbf or greater</b> when tested per TAS105.	Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5
LWC-64.	Min. 22 ga., type BV, Grade 40; 6 ft spans; 5/8" puddle welds or Traxx/5 screws 6" o.c.	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve MCRF of <b>95 lbf or greater</b> when tested per TAS105.	GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5

**TABLE 4H: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
<b>ELASTIZELL (NOA 18-0208.03):</b>							
LWC-65.	Min. 22 ga., 33 ksi, type BV (0.5%) steel; 6' spans, 5/8" puddle welds 6" o.c.	Elastizell	200	3	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>							
LWC-66.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5*
LWC-67.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-52.5*
LWC-68.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8" puddle welds 6" o.c.	Mearlcrete	300	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5*
<b>PRE-EXISTENT CELLULAR LWC (NOTE 15):</b>							
LWC-69.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5*
LWC-70.	Min. 22 ga., type BV, Grade 33 steel; 6' spans, 5/8-inch puddle welds, 6" o.c.	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5*

**TABLE 4I: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
<b>CELCORE (NOA 18-0717.05):</b>							
LWC-71.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-300.0*
LWC-72.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-300.0*
<b>CONCRECEL (NOA 18-0207.03):</b>							
LWC-73.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-225.0*
LWC-74.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-225.0*
LWC-75.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-225.0*
<b>ELASTIZELL (NOA 18-0208.03):</b>							
LWC-76.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-200.0*
LWC-77.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0*
LWC-78.	Structural concrete	Elastizell	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-210.0*
<b>SIPLAST INSULCEL (NOA 16-1024.02):</b>							
LWC-79.	Structural concrete	Insulcel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-270.0*
LWC-80.	Structural concrete	Insulcel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-270.0*
<b>MEARLCRETE (NOA 18-0829.06):</b>							
LWC-81.	Structural concrete	Mearlcrete	730	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 6-inch o.c.	-45.0*
LWC-82.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-205.0*
LWC-83.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-205.0*
LWC-84.	Structural concrete	Mearlcrete	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-270.0*
<b>PRE-EXISTENT CELLULAR LWIC (NOTE 15):</b>							
LWC-85.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of 97 lbf or greater when tested per TAS105.	180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5*
LWC-86.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of 97 lbf or greater when tested per TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5*
LWC-87.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of 97 lbf or greater when tested per TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5*



TABLE 4I: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)									
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER									
System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)		
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach			
LWC-88.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve MCRF of <b>97 lbf or greater</b> when tested per TAS105.			180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5*

TABLE 4J: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)											
SYSTEM TYPE F: TEMP ROOF / VAPOR BARRIER TO DECK, LWC TO TEMP ROOF / VAPOR BARRIER, BONDED ROOF COVER											
System No.	Deck (Note 1)	Primer	Temp Roof / Vapor Barrier	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)		
				Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach			
<b>PRE-EXISTENT CELLULAR LWIC (NOTE 15):</b>											
LWC-89.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.			180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5
LWC-90.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.			180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5
LWC-91.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.			180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5
LWC-92.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.			180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5
LWC-93.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>146 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.			540	2	EverGuard TPO FB Ultra	OlyBond 500 (spatter)	-357.5

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
CWF-1.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard Freedom TPO / self adhered	-45.0*
CWF-2.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard Freedom TPO / self adhered	-52.5*
<b>EVERGUARD TPO:</b>							
CWF-3.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
CWF-4.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-52.5*
CWF-5.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO / #1121	-120.0*
CWF-6.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO / #1121	-127.5*
<b>EVERGUARD TPO FB ULTRA:</b>							
CWF-7.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
CWF-8.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
CWF-9.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	LRF-M	(Optional) Additional layers base insulation, flat or tapered	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*
CWF-10.	Existing (reroof) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*
CWF-11.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-120.0*
CWF-12.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-127.5*

TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER							
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CWF-13.	Existing (reroof/recover) Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates; Minimum 2-inch fastener embedment.	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
CWF-14.	Existing (reroof/recover)) Min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
CWF-15.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
CWF-16.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER						
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
System No.	Deck (Note 1)	Base Sheet			Roof Cover	MDP (psf)
		Base	Fasteners	Attach		
CWF-17.	New or existing (reroof/recover) Min. 3-inch Tectum I Plank at max 4 ft spans, bonded to structural members and between tongue-and-groove joints using single-component polyurethane adhesive, and attached with two (2) Drill-Tec Purlin Screws and Tectum 2" washers per plank-width, approximately 5-inch from plank edges.	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (min. 1.8-inch embedment) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)				
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER				
System No.	Deck (Note 1)	Primer / Treatment	Roof Cover (Note 16)	MDP (psf)
CWF-18.	New or existing (reroof) Min. 2-inch Tectum I Plank at max 3 ft spans attached with OMG 2" Galvalume Plates and Drill-Tec Purlin Fasteners; 3 parts per bearing.	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) in accordance with GAF published installation instructions for Tectum applications	-127.5*

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO</b>							
G-1.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-135.0*
G-2.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5*
G-3.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-187.5*
G-4.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5*
G-5.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-257.5*
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>							
G-6.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
G-7.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0*
G-8.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-135.0*
G-9.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-270.0*
G-10.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-387.5*
G-11.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
G-12.	Existing poured gypsum or gypsum plank	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
G-13.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5*
G-14.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-257.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
G-15.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0*
G-16.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0*
G-17.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-135.0*

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)	
		Type	Attach	Type	Attach			
G-18.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA		OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-210.0*
G-19.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS		GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0*
G-20.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra		GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-257.5*
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE</b>								
G-21.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN, min. 2-inch, min. 2.0 pcf Insulfoam EPS		OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
G-22.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN		OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-135.0*
G-23.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS		GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
G-24.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN		GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-257.5*
<b>EVERGUARD TPO FB ULTRA:</b>								
G-25.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RH		OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 6-inch o.c.	-75.0*
G-26.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra		GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-257.5*

**TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Temp Roof	Base Insulation		Top Insulation		Roof Cover (Note 16)	MDP (psf)
		Type	Fasteners (Note 11)	Attach		Type	Attach	Type	Attach		
G-27.	Existing poured gypsum or gypsum plank	GAFGLAS #75 Base Sheet or Tri-Ply #75 Base Sheet	Drill-Tec Base Sheet Fastener (1.2 in.) or Drill-Tec Base Sheet Fastener E (1.2 in.) (MCRF ≥ 105 lbf)	9-inch o.c. in the min. 2-inch laps and 18-inch o.c. in two, equally spaced center rows	Ruberoid HW 25 Smooth, SBS HW Smooth, Ruberoid Torch Smooth or Tri-Ply APP Smooth	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek HD Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>								
G-28.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-29.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-30.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-31.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-32.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-33.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-34.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-35.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-36.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-37.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
<b>EVERGUARD TPO:</b>								
G-38.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-39.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
G-40.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-41.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-42.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-43.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-44.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-45.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-46.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-47.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
<b>EVERGUARD TPO FB ULTRA:</b>								
G-48.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-49.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-50.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-51.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)								
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
G-52.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-53.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-54.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-55.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-56.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-57.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 288 lbf)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

TABLE 6D: GYPSUM DECKS - REROOF (TEAR-OFF)							
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-58.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates (Minimum 2-inch fastener embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-59.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-60.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-61.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF ≥ 180 lbf)	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*



**TABLE 6D: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-62.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-63.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 180 lbf)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-64.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment) (MCRF $\geq$ 261 lbf)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-65.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (MCRF $\geq$ 140 lbf)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
G-66.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (MCRF $\geq$ 140 lbf)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 6E: GYPSUM DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover	MDP (psf)
		Base	Fasteners (Note 11)	Attach		
G-67.	Existing poured gypsum or gypsum plank	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (MCRF $\geq$ 83 lbf) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

**TABLE 6F: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Primer / Treatment	Roof Cover (Note 16)	MDP (psf)
G-68.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / WB181	-90.0*
G-69.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-95.0*
G-70.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-280.0
G-71.	Existing poured gypsum or gypsum plank	SureBond Primer at 0.5 gal/square	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-327.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
R-1.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-45.0*
R-2.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-110.0*
R-3.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-120.0*
R-4.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5*
R-5.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0*
R-6.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5*
R-7.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-120.0*
R-8.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0*
R-9.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard Freedom TPO / self adhered	-45.0*
R-10.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-110.0*
R-11.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-12.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0*
R-13.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard Freedom TPO / self adhered	-75.0*
R-14.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-75.0*
R-15.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-225.0*
R-16.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard Freedom TPO / self adhered	-45.0*
R-17.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-110.0*
R-18.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5*
R-19.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0*
R-20.	Existing smooth-surfaced modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5*
R-21.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard Freedom TPO / self adhered	-245.0*
R-22.	Existing smooth-surfaced BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-262.5*
R-23.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-270.0*
<b>EVERGUARD TPO IN EVERGUARD TPO #1121 OR EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
R-24.	Existing asphalt BUR or mineral surfaced cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime or Min. 19/32-inch plywood	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-25.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0*
R-26.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-110.0*
R-27.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5*
R-28.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0*
R-29.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5*
R-30.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5*
R-31.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0*
R-32.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0*
R-33.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-225.0*
R-34.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0*
R-35.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-110.0*
R-36.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-37.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0*
R-38.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0*
R-39.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5*
R-40.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0*
R-41.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-225.0*
R-42.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0*
R-43.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-110.0*
R-44.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5*
R-45.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0*
R-46.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0*
R-47.	Existing smooth-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
R-48.	Existing smooth-surfaced BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-262.5*
R-49.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-270.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-50.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0*
R-51.	Existing smooth-surfaced modified bitumen over struct. concrete deck	(Optional) Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5*
R-52.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	One or more layers, min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0*
R-53.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-245.0*
R-54.	Existing smooth-surfaced BUR or granule surfaced modified bitumen over struct. concrete deck	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5*
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-55.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / WB181	-45.0*
R-56.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-110.0*
R-57.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / WB181	-157.5*
R-58.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / WB181	-200.0*
R-59.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-97.5*
R-60.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-45.0*
R-61.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-62.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-225.0*
R-63.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / WB181	-45.0*
R-64.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-110.0*
R-65.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / WB181	-157.5*
R-66.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / WB181	-200.0*
R-67.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / WB181	-75.0*
R-68.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-75.0*
R-69.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-225.0*
R-70.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / WB181	-45.0*
R-71.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-110.0*
R-72.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / WB181	-157.5*
R-73.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-74.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / WB181	-200.0*
R-75.	Existing smooth-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5*
R-76.	Existing smooth-surfaced BUR over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-245.0*
R-77.	Existing granule-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0*
R-78.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf Insulfoam EPS	GAF 2-Part	Min. 0.25-inch Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-130.0*
<b>EVERGUARD TPO IN EVERGUARD LOW VOC TPO OR EVERGUARD TPO 3-SQUARE LOW VOC BONDING ADHESIVE:</b>							
R-79.	Existing asphalt BUR or mineral surfaced cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
R-80.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
R-81.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-110.0*
R-82.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5*
R-83.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0*
R-84.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5*
R-85.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*



**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-86.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
R-87.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-225.0*
R-88.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
R-89.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-110.0*
R-90.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5*
R-91.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0*
R-92.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0*
R-93.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
R-94.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5*
R-95.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0*
R-96.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-225.0*
R-97.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-98.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-110.0*
R-99.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5*
R-100.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0*
R-101.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0*
R-102.	Existing smooth-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5*
R-103.	Existing smooth-surfaced BUR or granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-245.0*
R-104.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0*
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-105.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
R-106.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-110.0*
R-107.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-120.0*
R-108.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5*
R-109.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-110.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-97.5*
R-111.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-120.0*
R-112.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-225.0*
R-113.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-45.0*
R-114.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-75.0*
R-115.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-110.0*
R-116.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5*
R-117.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0*
R-118.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-75.0*
R-119.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-225.0*
R-120.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
R-121.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-110.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-122.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5*
R-123.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-180.0*
R-124.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0*
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
R-125.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-126.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-127.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
R-128.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-129.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-130.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
R-131.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-132.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-133.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-134.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-135.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RH	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
R-136.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-137.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-138.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
R-139.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-140.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*
R-141.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-142.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-143.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0*

**EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:**

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-144.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
R-145.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0*
R-146.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5*
R-147.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0*
R-148.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
R-149.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
R-150.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0*
R-151.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5*
R-152.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0*
R-153.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
R-154.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-155.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0*
R-156.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5*
R-157.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*
R-158.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0*
R-159.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0*

**TABLE 7B: WOOD OR STEEL - RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

*(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)*

System No.	Substrate (Notes 1 & 11)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-160.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened per FM Approvals requirements	Drill-Tec Hex-Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-161.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened per FM Approvals requirements	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-162.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
R-163.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened per FM Approvals requirements	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-164.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened per FM Approvals requirements	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-165.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
R-166.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
R-167.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened per FM Approvals requirements	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5
R-168.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened per FM Approvals requirements	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5



**TABLE 7C: STEEL - RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Deck (Note 1 11)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners (Note 11)	Attachment	
R-169.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 120-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-45.0
R-170.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Eyehook Reel-Fast Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-171.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 114-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 114-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-52.5
R-172.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2-3/4 in. Barbed SXHD Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0

**TABLE 7D: RECOVER APPLICATIONS**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Roof Cover (Note 16)	MDP (psf)
R-173.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
R-174.	Existing asphaltic granule surfaced roof cover over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0*
R-175.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0*
R-176.	Existing asphaltic granule surfaced cap sheet	EverGuard TPO FB Ultra / LRF Adhesive-M, 6-inch o.c.	-67.5*
R-177.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-105.0*
R-178.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c.	-120.0*
R-179.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-337.5*
R-180.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c. (for full coverage)	-415.0*
R-181.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c. (for full coverage)	-492.5*
R-182.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
R-183.	Existing smooth surfaced SBS modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0*
R-184.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0*
R-185.	Existing smooth or granule surfaced SBS modified bitumen or existing granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-337.5*
R-186.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-497.5*
R-187.	Existing asphaltic granule surfaced cap sheet over structural concrete deck	EverGuard TPO FB Ultra / Hot Asphalt	-405.0*