

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

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The following notes apply to the systems outlined herein:

- The evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Minimum ¾-inch steel penetration, engage the top flute of the steel deck.
 - Structural Concrete: All Purpose Fasteners with UltraFast Metal Plates or Structural Concrete Fasteners with UltraFast Metal Plates (flat bottom only). Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer’s published installation instructions.
- Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite or gypsum-based coverboard that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached membrane), whereby the membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Preliminary insulation attachment for System Type 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 coverage at 25 lbs/sq.
 - JM MBR Bonding Adhesive [MBR-BA]: Continuous 0.75-inch ribbons, 12-inch o.c.
 - JM One-Step Foamable Adhesive [JM-OSFA]: Continuous 0.75-inch ribbons, 12-inch o.c.
 - JM Roofing System Urethane Adhesive (JM-RSUA): Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.
 - JM Two-Part Urethane Insulation Adhesive [UIA-TWO-PART]: Continuous 0.75-inch ribbons, 12-inch o.c. *JM Green Two-Part Urethane Insulation Adhesive may be used where UIA-TWO-PART is referenced.*
 - ICP Adhesives CR-20 [CR-20]: Continuous 2½ to 3½-inch ribbons, 12-inch o.c.
 - *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:
- JM One-Step Foamable Adhesive [JM-OSFA]: MDP: -157.5 psf (Min. 0.5-inch thick)
 - JM Roofing System Urethane Adhesive (JM RSUA): MDP: -157.5 psf (Min. 0.5-inch thick)
 - JM Two-Part Urethane Insulation Adhesive [UIA-TWO-PART]: MDP: -315.0 psf (Min. 0.5-inch thick ENRGY 3 or JM ISO 3)
 - ICP Adhesives CR-20 [CR-20]: MDP: -117.5 psf (Min. 1.0-inch thick)
8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
10. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
12. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) 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 ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or 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 Applications using System Type D, the insulation is optional. Alternatively, Invinsa Roof Board, DensDeck, DensDeck Prime, DEXCell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board may be used as a separator board, preliminarily attached prior to roof cover installation. The existing roof system shall be suitable for a recover application.
15. LWIC shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. For systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.

16. For adhered membrane systems, side laps shall be minimum 2-inch wide sealed with min. 1.5-inch heat weld. Adhesive application rates are as follows:

ADHESIVE APPLICATION RATES			
Membrane	Adhesive	Method	Rate
JM TPO	JM TPO Membrane Adhesive (Solvent Based) [JM TPO MA-SB]	Contact (both sides)	1.67 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	JM TPO Membrane Adhesive (Low VOC) [JM TPO MA-LVOC]	Contact (both sides)	1.67 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	JM TPO Low VOC Membrane Adhesive [JM TPO Low-VOC MA]	Contact (both sides)	1.1 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	JM TPO LVOC Membrane Adhesive [JM TPO LVOC MA]	Contact (both sides)	1.1 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM) [JM MBA (TPO&EPDM)]	Contact (both sides)	ENRGY 3 & other polyisocyanurate: 1.1 gal/square (½ applied to substrate and ½ applied to membrane) Invinsa Roof Board, Dens Deck Prime & SECUROCK Gypsum Fiber Roof Board: 1.67 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	TACC FA-141	Contact (both sides)	1.67 gal/square (½ applied to substrate and ½ applied to membrane)
JM TPO	JM TPO Membrane Adhesive (Water Based) [JM TPO MA-WB]	Wet lay (substrate)	0.83 to 1 gal/square
JM TPO	JM TPO Water Based Membrane Adhesive [JM TPO WBMA]	Contact (both sides)	Invinsa Roof Board: 0.56 – 0.71 gal/square SECUROCK Gypsum-Fiber Roof Board: 0.59 – 0.77 gal/square ENRGY 3, ValuTherm: 0.63 – 0.83 gal/square
JM TPO FB	JM TPO Membrane Adhesive (Water Based) [JM TPO MA-WB]	Wet lay (substrate)	0.83 to 1 gal/square
JM TPO FB	JM TPO Water Based Membrane Adhesive [JM TPO WBMA]	Wet lay (substrate)	Invinsa Roof Board: 0.56 – 0.71 gal/square SECUROCK Gypsum-Fiber Roof Board: 0.59 – 0.77 gal/square ENRGY 3, ValuTherm: 0.63 – 0.83 gal/square
JM TPO FB	JM Roofing System Urethane Adhesive (JM-RSUA)	Wet lay (substrate)	0.5 to 0.75-inch wide ribbons spaced as noted in tables herein.
JM TPO FB	JM Single Ply Two Part Urethane Insulation Adhesive (JM-SP-UIA-TWO-PART)	Wet lay (substrate)	0.5 to 0.75-inch wide ribbons spaced as noted in tables herein.

17. Modified bitumen vapor barrier options for use over **structural concrete deck** followed by adhered insulation **applied as follows** carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in **Table 3A** applies:

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHERED INSULATION PER TABLE 3A:				
Option #	Primer	Vapor Barrier	Insulation Adhesive	MDP (psf)
1	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-180.0
2	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	JM One-Step Foamable Adhesive (OSFA), 12-inch o.c.	-180.0
3	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 250 FR S in hot asphalt or DynaBase HW, DynaWeld Base, DynaWeld 180 S torch-applied	JM One-Step Foamable Adhesive (OSFA), 12-inch o.c.	-180.0
4	JM SA Primer Low VOC	JM Vapor Barrier SA, self-adhered	JM Two-Part Urethane Insulation Adhesive (UIA-2), 12-inch o.c.	-277.5
5	JM SA Primer Low VOC	JM Vapor Barrier SA, self-adhered	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-277.5
6	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 250 FR S in hot asphalt or DynaBase HW, DynaWeld Base, DynaWeld 180 S torch-applied	JM Two-Part Urethane Insulation Adhesive (UIA-2), 12-inch o.c.	-277.5
7	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 250 FR S in hot asphalt	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-277.5
8	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S torch-applied	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-292.5

18. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

TABLE 1A-1: 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	Type	Attach	
JM TPO APPLICATIONS:								
W-1	Min. 19/32" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-37.5*
W-2	Min. 23/32-inch plywood or wood plank at max 24" spans	One or more layers, any combination, loose laid	Min. 7/16-inch OSB	Note 2	1 per 2 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
W-3	Min. 15/32" TECO rated plywood or OSB	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-45.0*
W-4	Min. 7/16" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
JM TPO FB APPLICATIONS:								
W-5	Min. 19/32" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.67 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-37.5*
W-6	Min. 15/32" TECO rated plywood or OSB	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.67 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*

TABLE 1A-2: WOOD 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	Attach		Roof Cover	MDP (psf)
			Fasteners	Density		
W-7	Min. 19/32" APA rated OSB	One or more layers, any combination	All Purpose Fasteners with JM TPO RhinoPlates	1 per 5.33 ft ² (6 parts per 4x8 ft board)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-22.5*
W-8	Min. 15/32" APA rated plywood at 24" span	One or more layers, any combination	All Purpose Fasteners with JM TPO RhinoPlates	1 per 2.67 ft ² (16" x 24" grid)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-37.5
W-9	Min. 7/16" APA rated OSB at 24" span	One or more layers, any combination	All Purpose Fasteners with JM TPO RhinoPlates, installed to engage wood joists	18" o.c. in rows spaced 48" o.c. (Fasteners engage wood joists)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-45.0*
W-10	Min. 15/32" TECO rated OSB or Min. 19/32" APA rated plywood	One or more layers, any combination	All Purpose Fasteners with JM TPO RhinoPlates	1 per 4 ft ² (24" x 24" grid)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-45.0*

TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER							
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER							
System No.	Deck (Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
W-11	Min. 19/32" APA rated plywood at 24" span	One or more layers, any combination with top layer of Invinsa Roof Board	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	All Purpose Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
W-12	Min. 19/32" plywood at max. 24" spans with blocking at unsupported joints	One or more layers, any combination with top layer of Dens Deck, Dens Deck Prime, DEXCell FA Glass Mat Roof Board or SECURROCK Gypsum Fiber Roof Board	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-60.0

TABLE 2A-1: 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	Type	Attach	
JM TPO APPLICATIONS:									
SC-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.5-inch RetroPlus Board	JM-RSUA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2 (square plates)	1 per 4 ft ²	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-45.0*
SC-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-52.5
JM TPO FB APPLICATIONS:									
SC-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Additional layer(s) base insulation	Hot Asphalt	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-OSFA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-37.5*

TABLE 2A-1: 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	Type	Attach	
SC-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.67 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-OSFA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.5-inch RetroPlus Board	JM-RSUA	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 1 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA, 6-inch o.c.	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
SC-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-37.5*
SC-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Additional layer(s) base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.67 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-52.5
SC-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-37.5*

TABLE 2A-1: 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	Type	Attach	
SC-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.67 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*

TABLE 2A-2: 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		Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach	Type	Attach	Type	Attach	Type	Attach	
JM TPO APPLICATIONS:													
SC-19	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-20	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-21	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-45.0*

TABLE 2A-2: 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		Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach	Type	Attach	Type	Attach	Type	Attach	
SC-22	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-45.0*
JM TPO FB APPLICATIONS:													
SC-23	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Additional layer(s) base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-24	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-25	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-26	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-27	Min. 22 ga., Grade 80 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1 ft ²	JM SA Primer followed by JM Vapor Barrier SA	Self-adhered	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	RSUA, 6-inch o.c.	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	RSUA, 6-inch o.c.	JM TPO FB 100, 115 or 135	JM-RSUA, 6-inch o.c.	-82.5

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
JM TPO APPLICATIONS:								
SC-28	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. 1.75-inch Invinso Foam	Note 2	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-30.0*
SC-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch Invinso Roof Board	Note 2	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-30.0*
SC-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-37.5*
SC-31	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Fesco Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-37.5*
SC-32	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-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-45.0*
SC-33	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 ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-45.0*
SC-34	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsoPlus	Note 2	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-35	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. 1.75-inch Invinso Foam	Note 2	1 per 2.9 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-45.0*

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
SC-36	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Invinsa Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-45.0*
SC-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-45.0*
SC-38	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-45.0*
SC-39	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Note 2	1 per 3.2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-45.0*
SC-40	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-45.0*
SC-41	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-45.0*
SC-42	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. 7/16-inch APA rated OSB	Note 2	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-45.0*
SC-43	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2 (square plates)	1 per 1.78 ft ²	JM TPO 45, 60, 72 or 80	JM TPO Low VOC MA	-45.0

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
SC-44	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 ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSA CGF	Note 2	1 per 1.78 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-52.5
SC-45	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-inch ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-52.5
SC-46	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.33 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-52.5
SC-47	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsoPlus	Note 2	1 per 2.67 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-52.5
SC-48	Min. 22 ga., Type B, Grade 80 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsoPlus	Note 2	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-60.0
SC-49	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 ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	Note 2 (square plates)	1 per 1.78 ft ²	JM TPO 45, 60, 72 or 80	JM MBA (TPO&EPDM), JM TPO LVOC MA	-60.0
SC-50	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-inch ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 2 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-67.5

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
SC-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 7/16-inch APA rated OSB	Note 2	1 per 1.78 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-75.0
SC-52	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-inch ENRGY 3 CGF, ValuTherm CGF	Note 2 (square recessed plates)	1 per 1 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM)	-75.0
SC-53	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 1.33 ft ²	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA	-105.0
SC-54	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1 ft ²	JM TPO 45, 60, 72 or 80	JM TPO Low VOC MA	-135.0*
SC-55	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1 ft ²	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-150.0*
JM TPO FB APPLICATIONS:								
SC-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-37.5*
SC-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.67 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-37.5*
SC-58	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Fesco Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-37.5*
SC-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
SC-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 7/16-inch OSB	Note 2	1 per 2 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-62	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 4 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-63	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Note 2	1 per 3.2 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-64	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-65	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.67 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-45.0*
SC-66	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Invinsa Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-45.0*
SC-67	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.33 ft ²	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-52.5
SC-68	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, loose laid, followed by JM Vapor Barrier SA, self-adhered, followed by Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1 ft ²	JM TPO FB 100, 115 or 135	JM-RSUA, 4-inch o.c.	-82.5

TABLE 2B-1: 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	Fasteners	Attach	Type	Attach	
SC-69	Min. 22 ga., Type B, Grade 80 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, loose laid, followed by JM Vapor Barrier SA, self-adhered, followed by Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1 ft ²	JM TPO FB 100, 115 or 135	JM-RSUA, 4-inch o.c.	-142.5
SC-70	Min. 22 ga., Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1 ft ²	JM TPO FB 100, 115 or 135	JM TPO WBMA	-150.0*

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

System No.	Deck (Note 1)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
			Fasteners	Spacing		
SC-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	18-inch o.c. at rows spaced 60-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld	-37.5
SC-72	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	6-inch o.c. at rows spaced 120-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-45.0
SC-73	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	12-inch o.c. at rows spaced 60-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-52.5
SC-74	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	6-inch o.c. at rows spaced 60-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-105.0
SC-75	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	1 per 5.33 ft ² (6 parts per 4 x 8 ft board)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-45.0*
SC-76	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	1 per 4 ft ² (8 parts per 4 x 8 ft board)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-67.5
SC-77	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	1 per 2.67 ft ² (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.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-75.0
SC-78	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	16-inch o.c. in rows spaced 24-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-82.5
SC-79	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	1 per 2.13 ft ² (15 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 30-, 48-, 66- and 84-inches from the board's short edge.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-90.0
SC-80	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	JM TPO RhinoPlates and High Load Fasteners	16-inch o.c. in rows spaced 24-inch o.c.	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions. Laps sealed with 1.5-inch heat weld.	-90.0
SC-81	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	JM TPO 10" RPS fastened with JM High Load Plates and High Load Fasteners	Fasteners 6-inch o.c. through RPS at rows spaced 114-inch o.c.	JM TPO 45, 60, 72 or 80 underside is primed with Primer 240 or ADCO SPC-3 Primer and walked-in over the self-adhering RPS. Laps sealed with 1.5-inch heat weld.	-52.5

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

System No.	Deck (Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
SYSTEMS OVER MIN. GRADE 33 STEEL DECK OR STRUCTURAL CONCRETE (AS NOTED)							
SC-82	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-30.0
SC-83	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-30.0
SC-84	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
SC-85	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-86	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-87	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-52.5
SC-88	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-60.0
SC-89	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-75.0
SC-90	Min. 22 ga., type B, Grade 33 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (5 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-97.5
SYSTEMS OVER MIN. GRADE 60 STEEL DECK OR STRUCTURAL CONCRETE (AS NOTED)							
SC-91	Min. 22 ga., type B, Grade 60 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with OMG 2-3/4" Super XHD Barbed Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-30.0
SC-92	Min. 22 ga., type B, Grade 60 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with OMG 2-3/4" Super XHD Barbed Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
SC-93	Min. 22 ga., type B, Grade 60 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-60.0

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

System No.	Deck (Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
SC-94	Min. 22 ga., type B, Grade 60 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-75.0
SYSTEMS OVER MIN. GRADE 80 STEEL DECK OR STRUCTURAL CONCRETE (AS NOTED)							
SC-95	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
SC-96	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
SC-97	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with OMG 2-3/4" Super XHD Barbed Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-98	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-99	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-100	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0
SC-101	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (10 ft sheet)	Extra High Load Fasteners (steel only) or JM Structural Concrete Deck Fasteners (concrete only) with Extra High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-52.5
SC-102	Min. 22 ga., type B, Grade 80 steel or min. 3,000 psi structural concrete	One or more layers, any combination	Prelim. attached	JM TPO 45, 60, 72 or 80 (8 ft sheet)	High Load Fasteners (steel or concrete) or JM Structural Concrete Deck Fasteners (concrete only) with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-52.5

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SEE NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Prime	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
JM TPO APPLICATIONS:									
C-1	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	(Optional) Min. 0.25-inch DensDeck or Invinsa Roof Board	JM-OSFA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-75.0
C-2	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	(Optional) Min. 0.25-inch Invinsa Roof Board	JM-OSFA	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-75.0
C-3	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-OSFA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-247.5
C-4	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-247.5
C-5	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Min. 0.25-inch DensDeck or Invinsa Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
C-6	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-105.0
C-7	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-105.0
C-8	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	MBR-BA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-105.0

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SEE NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Prime	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
C-9	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	MBR-BA (full coverage at 1.5 gal/sq)	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-112.5
C-10	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-120.0
C-11	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO Low-VOC MA, JM TPO LVOC MA	-172.5
C-12	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-195.0
C-13	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-247.5
C-14	Min. 2,500 psi structural concrete	None	Min. 0.25-inch Invinsa Roof Board or Invinsa Plus	UIA-TWO-PART	None	N/A	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-255.0
C-15	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM MBA (TPO&EPDM)	-322.5
C-16	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-330.0
C-17	Min. 2,500 psi structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-330.0

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SEE NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Prime	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
C-18	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	N/A	JM TPO 45, 60, 72 or 80	JM TPO Low-VOC MA, JM TPO LVOC MA	-360.0
C-19	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ValuTherm	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC	-390.0
C-20	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	N/A	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-465.0
C-21	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch DensDeck	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
C-22	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Min. 0.25-inch DensDeck	MBR-BA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
C-23	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch Invinsa Roof Board	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-112.5
C-24	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch Invinsa Roof Board	MBR-BA <i>(full coverage at 1.5 gal/sq)</i>	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-112.5
C-25	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO Low-VOC MA, JM TPO LVOC MA	-172.5
C-26	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-217.5
C-27	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA	-247.5

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SEE NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Prime	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
JM TPO FB APPLICATIONS:									
C-28	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	HA	(Optional) Additional layers of base insulation	HA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-29	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-30	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	(Optional) Additional layers of base insulation	JM-OSFA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-31	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-OSFA	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-32	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	JM-OSFA	(Optional) Additional layers of base insulation	JM-OSFA	JM TPO FB 100, 115 or 135	JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-33	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm	JM-RSUA	(Optional) Additional layers of base insulation	JM-RSUA	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
C-34	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
C-35	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	JM-RSUA	(Optional) Additional layers of base insulation	JM-RSUA	JM TPO FB 100, 115 or 135	JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-36	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
C-37	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM-RSUA, 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

SEE NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Prime	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
C-38	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-39	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-40	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-41	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-120.0
C-42	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO WBMA	-187.5
C-43	Min. 2,500 psi structural concrete	None	Min. 0.25-inch Invinsa Roof Board or Invinsa Plus	UIA-TWO-PART	None	N/A	JM TPO FB 100, 115 or 135	JM TPO WBMA	-277.5
C-44	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	N/A	JM TPO FB 100, 115 or 135	JM TPO WBMA	-345.0
C-45	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ValuTherm	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB	-390.0
C-46	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
C-47	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0

TABLE 4A-1: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 15)	Roof Cover (Note 16)		MDP (psf)
			Type	Attach	
LWC-1	Min. 2,500 psi structural concrete	Min. 379 psi, min. 2" thick Concrecel Concrete, with optional 1" thick, 1.0 pcf EPS holey board and surfacing of Concrecel Curing Compound.	JM TPO 45, 60, 72 or 80	JM TPO MA-LVOC, JM TPO LVOC MA	-285.0
LWC-2	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2" thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, with optional 1" thick, 1.0 pcf EPS holey board and surfacing of Celcore PVA Curing Compound.	JM TPO 45, 60, 72 or 80	JM TPO MA-LVOC, JM TPO LVOC MA	-367.5
LWC-3	Min. 22 ga., Type BV, Grade 33 vented steel at max 6 ft spans or min. 2,500 psi concrete	Min. 213 psi, min. 2" thick Elastizell, min. 370 psi, min. 2" thick Concrecel Concrete or min. 380 psi, min. 2" thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board. Concrecel treated with Concrecel Curing Compound. Celcore treated with Celcore Curing Compound	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
LWC-4	Min. 2,500 psi structural concrete	Min. 213 psi, min. 2" thick Elastizell, min. 370 psi, min. 2" thick Concrecel Concrete or min. 380 psi, min. 2" thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board. Concrecel treated with Concrecel Curing Compound. Celcore treated with Celcore Curing Compound	JM TPO FB 100, 115 or 135	JM-RSUA, 4-inch o.c. (full coverage)	-290.0

TABLE 4A-2: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: VAPOR BARRIER TO DECK, LWC TO VAPOR BARRIER, BONDED ROOF COVER

System No.	Deck (Note 1)	Vapor Barrier	LWC (Note 15)	Roof Cover (Note 16)		MDP (psf)
				Type	Attach	
LWC-5	Min. 2,500 psi structural concrete primed with ASTM D41 primer	DynaBase HW, torch-applied	Min. 213 psi, min. 2" thick Elastizell or min. 380 psi, min. 2" thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board. Celcore treated with Celcore Curing Compound	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-67.5
LWC-6	Min. 2,500 psi structural concrete primed with ASTM D41 primer	DynaBase HW, torch-applied	Min. 213 psi, min. 2" thick Elastizell with optional 1" thick, 1.0 pcf EPS holey board.	JM TPO FB 100, 115 or 135	JM-RSUA, 4-inch o.c. (full coverage)	-85.0
LWC-7	Min. 2,500 psi structural concrete primed with ASTM D41 primer	DynaBase HW, torch-applied	Min. 380 psi, min. 2" thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board and surfacing of Celcore Curing Compound.	JM TPO FB 100, 115 or 135	JM-RSUA, 4-inch o.c. (full coverage)	-262.5

TABLE 5A: 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	Type	Attach	
JM TPO APPLICATIONS:								
G-1.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Min. 0.25-inch DensDeck or Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
G-2.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Min. 0.25-inch Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-105.0
G-3.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA, TACC FA-141	-112.5
G-4.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Min. 0.25-inch DensDeck	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
G-5.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO Low-VOC MA, JM TPO LVOC MA	-172.5
G-6.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-217.5
JM TPO FB APPLICATIONS:								
G-7.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
G-8.	Existing poured gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0

TABLE 6A: RECOVER APPLICATIONS
SYSTEM TYPE A: 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	Type	Attach	
JM TPO APPLICATIONS:								
R-1	Existing asphaltic BUR	Min. 0.25-inch Invinsa Roof Board	MBR-BA (full coverage at 1.5 gal/sq)	N/A	N/A	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO WBMA, JM TPO MA-SB, JM MBA (TPO&EPDM)	-112.5
R-2	Existing asphaltic BUR	(Optional if coverboard used) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	(Optional if base insulation used) Min. 0.25-inch DensDeck or Invinsa Roof Board	JM-OSFA	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-75.0
R-3	Existing asphaltic BUR	(Optional if coverboard used) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	(Optional if base insulation used) Min. 0.25-inch Invinsa Roof Board	JM-OSFA	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-75.0
R-4	Existing asphaltic BUR	(Optional if coverboard used) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional if base insulation used) Min. 0.25-inch DensDeck or Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
R-5	Existing asphaltic BUR	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO WBMA	-105.0
R-6	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, JM TPO Low-VOC MA, TACC FA-141	-120.0
R-7	Existing asphaltic BUR or mineral surface cap sheet	Min. 0.25-inch DensDeck	CR-20	N/A	N/A	JM TPO 45, 60, 72 or 80	JM TPO MA-WB, JM TPO MA-SB, JM MBA (TPO&EPDM), TACC FA-141	-105.0
R-8	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO Low-VOC MA, JM TPO LVOC MA	-172.5

TABLE 6A: RECOVER APPLICATIONS
SYSTEM TYPE A: 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	Type	Attach	
R-9	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	JM TPO 45, 60, 72 or 80	JM TPO MA-SB, JM MBA (TPO&EPDM), JM TPO MA-LVOC, JM TPO LVOC MA, TACC FA-141	-217.5
JM TPO FB APPLICATIONS:								
R-10	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0
R-11	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	CR-20	(Optional) Additional layers of base insulation or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	JM TPO FB 100, 115 or 135	JM TPO MA-WB, JM TPO WBMA	-105.0

TABLE 6B: RECOVER OVER EXISTING METAL PANEL ROOF
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
R-12	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securment: JM Purlin Fasteners with JM TPO RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM TPO Rhino Plates spaced 6-inch o.c. at every-other structural steel support (max. 120-inch o.c.)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-13	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securment: JM Purlin Fasteners with JM TPO RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM TPO Rhino Plates spaced 18-inch o.c. at every structural steel support (max. 60-inch o.c.)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-14	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securment: JM Purlin Fasteners with JM TPO RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM TPO Rhino Plates spaced 12-inch o.c. at every structural steel support (max. 60-inch o.c.)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-15	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securment: JM Purlin Fasteners with JM TPO RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM TPO Rhino Plates spaced 6-inch o.c. at every structural steel support (max. 60-inch o.c.)	JM TPO 60, 72 or 80 bonded to JM TPO RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-120.0

TABLE 6C: RECOVER OVER EXISTING METAL PANEL ROOF
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER

System No.	Deck (Note 1)	Insulation			Roof Cover			MDP (psf)
		Base Layer	Top Layer	Attach	Membrane	Fasteners	Attachment	
R-16	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attached	JM TPO 45, 60, 72 or 80	JM Purlin Fasteners with High Load Plates	Fasteners spaced 12-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-37.5
R-17	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attached	JM TPO 45, 60, 72 or 80	JM Purlin Fasteners with Extra High Load Plates	Fasteners spaced 12-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
R-18	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attached	JM TPO 45, 60, 72 or 80	JM Purlin Fasteners with High Load Plates	Fasteners spaced 6-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-82.5

TABLE 6D: RECOVER APPLICATIONS
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Substrate (Notes 1 & 12)	Roof Cover (Note 16)		MDP (psf)
		Type	Attach	
R-19	Existing asphaltic granule surface cap sheet	JM TPO FB 100, 115 or 135	JM-RSUA, 12-inch o.c.	-45.0