

Registry No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

#### **EVALUATION REPORT**

# FLORIDA BUILDING CODE, 7<sup>TH</sup> EDITION (2020)

Manufacturer: JOHNS MANVILLE CORPORATION

Issued August 15, 2022

P.O. Box 5108 Denver, CO 80217 (303) 978-2478 <u>www.jm.com</u>

Manufacturing Plants: Scottsboro, AL

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing

Subcategory: Single Ply Roof System

**Code Edition;** Florida Building Code, 7<sup>th</sup> Edition (2020) including High-Velocity Hurricane Zones (HVHZ) **Code Sections:** 1504.3.1, 1504.6, 1504.7, 1507.13, 1515.1.1, 1515.1.4, 1515.2.4, 1523.1.1, 1523.6.2,

1523.6.5.2.9

Properties: Wind Resistance, Physical Properties, Impact Resistance

#### **PRODUCT DESCRIPTION**

Products	Specification	Description
JM TPO-45	ASTM D 6878 TAS 110	Nominal 45-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
JM TPO-60	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
JM TPO-80	ASTM D 6878 TAS 110	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
JM TPO FB 115	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
JM TPO FB 135	ASTM D 6878 TAS 110	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
JM TPO FB 150	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and heavy polyester fleece backing
JM TPO FB 175	ASTM D 6878 TAS 110	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and heavy polyester fleece backing
JM TPO SA-60 mil	ASTM D 6878 TAS 110	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and a self-adhesive backing



### **REFERENCES**

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Robert J.M. Nieminen, P.E.	Compliance Letter 02/09/2017	TAS 114 (2011)
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#### **LIMITATIONS**

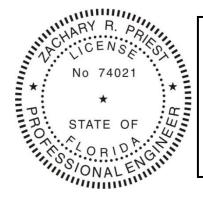
- 1. Fire classification is not within the scope of this evaluation.
- 2. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 and 2603.6.
- 3. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
- 4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf, then insulation attachment shall not be acceptable.
- 5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the MDP for the specified assembly. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
- 6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
- 7. **HVHZ:** For assemblies containing mechanical attachment, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117 and/or RAS 137.
  - **Non-HVHZ:** For assemblies containing mechanical attachment or adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117, RAS 137, or Section 2.2.10.1 FM LPDS 1-29 (February 2020).
- 8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
- 9. **HVHZ:** For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the assembly is not permitted, the *MDP* for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
  - **Non-HVHZ:** For assemblies adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with Section 2.2.10.1 FM LPDS 1-29 (February 2020).
- 10. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 11. The minimum roof slope shall be 1/4:12 for new construction.
- 12. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

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#### **COMPLIANCE STATEMENT**

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7<sup>th</sup> Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been digitally signed and sealed by Zachary R. Priest, PE, on 8/15/2022.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Zachary R. Priest, P.E. Florida Registration No. 74021 Organization No. ANE9641

#### **CERTIFICATION OF INDEPENDENCE**

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

## **APPENDICES**

- 1) APPENDIX A Installation (9 pages)
- 2) APPENDIX B Nomenclature (6 pages)
- 3) APPENDIX C Approved Assemblies for JM TPO Single-Ply Membranes (82 pages)



#### INSTALLATION

Note - Refer to the APPROVED ASSEMBLIES section of this report for specific installation details of a selected assembly.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
	JM All Purpose Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	JM APB Plates	2-inch diameter; Galvalume steel plate with reinforcing ribs and barbs
	JM Extra High Load Fastener	#21 fastener; Min. 3/4-inch penetration through the top rib of the steel deck
	JM Extra High Load Plates	3-inch diameter; Galvalume steel plate with eyehooks
	JM High Load Plates	2 3/8-inch diameter; Galvalume steel plate with eyehooks
	JM High Load Plus Plates	2 3/4-inch diameter; Galvalume steel plate with barbs
	JM High Load Fastener	#15 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	JM High Load LH Fastener	#15 fastener with oversized head; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	JM UltraFast Fastener	#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	JM UltraFast Metal Plate (Round) or UltraFast Plate Metal Recessed	3-inch diameter round; Galvalume steel plate; Only for use with the following products: ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 FR, ENRGY 3 C1, ENRGY 3 C1 CGF, RetroPlus, Retro-Fit, SeparatoR, SeparatoR CGF, SeparatoR CGF, DuraBoard, DuraFoam, Fesco, and Fesco Foam
	JM UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat	3-inch square; Galvalume steel plate
Fasteners, Battens & Plates	JM UltraLok Fastener	Min. 1.8-inch galvanized steel tube and coated-steel locking staple pre-assembled with 2.7-inch diameter Galvalume steel plate
	JM Polymer Membrane Batten	Membrane anchors and plastic strips
	JM Purlin Fastener	Min. 3/4-inch penetration through purlin
	JM Structural Concrete Deck Fastener	Concrete deck only; Min. 1-inch penetration into concrete deck
	JM TPO RhinoPlate	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane
	OMG 3 in. Ribbed Galvalume Plate (Flat)	3-inch diameter round; Galvalume steel plate
	OMG #12 Standard Roofgrip	#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	OMG CR Base Sheet Fastener	Base sheet fastener with 1.75-inch galvanized steel shank coated with CR-10 and integrated 2.75-inch diameter Galvalume plate.
	OMG XHD	#15 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	SFS Intec Dekfast DF-#12-PH3 Fastener	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck
	SFS Intec Dekfast DF-#14-PH3 Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	SFS Intec Dekfast DF-#15-PH3 Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	SFS Intec Dekfast PLT-H-2-7/8	2-7/8" hexagonal galvalume steel stress plate
	SFS Intec Dekfast PLT-R-3	3-inch diameter round; Galvalume steel plate

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Component	Product	Installation Detail	
	SFS Intec FI-P-6.8-TPO	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane	
	SFS Intec isofast PLT-R-2-3/8-BL	2 3/8-inch diameter; Galvalume steel plate	
	Trufast 2.4" Barbed Metal Seam Plate		
	Trufast 2.4" Barbed Metal Seam Plate (14-Barb)	2.4-inch diameter; Galvalume steel plate	
	Trufast 2.4" Scoop Seam Plate		
	Trufast 3" Metal Insulation Plate	3-inch diameter round; Galvalume steel plate	
	Trufast #12 Purlin Fastener	Installed into min. 16ga. steel purlins	
	Trufast #12 DP Fastener	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck	
Fasteners, Battens & Plates (Cont'd)	Trufast #14 HD Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck	
	Trufast #15 EHD Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck	
	Trufast Fluted Concrete Nails	Concrete deck only; Min. 1-inch penetration into concrete deck	
	Trufast Deep Well Batten Bar	Galvalume steel membrane batten with recessed holes	
	Trufast Straight Line Batten Bar	Galvalume steel membrane batten for use with Twin-Loc Nail without integrated plate	
	Trufast TPO IW Plates	Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane	
	Trufast Twin Loc-Nail	Min. 1.4-inch shank; Base sheet fastener with and without integrated 2.7-inch diameter plate	
	Trufast VERSA-FAST fastener	1/4-inch thread diameter; 2 1/4-inch length	
	JM MBR Bonding Adhesive	Fully adhered at a rate of 1.5-2.0 gal/100 ft <sup>2</sup>	
	JM One-Step Foamable Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads	
	ICP Adhesives CR-20	1.1.5.5.1 dd.1.5.15.1 11.5.1 11.5.5 5.5.5.5	
	OMG OlyBond 500		
Insulation Adhesives	JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister	Ribbon adhered in 3/4 to 1-inch wide beads	
	JM Two Part Urethane Insulation Adhesive or JM Two-Part UIA		
	JM Roofing System Urethane Adhesive		
	JM Urethane Insulation Adhesive	Ribbon adhered in 1/2-inch wide beads	
	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft <sup>2</sup>	
	EPS	Min. 1/2-inch, min. 1.8 pcf (HVHZ) or min. 1.5 pcf (non-HVHZ) expanded polystyrene; Adhered boards shall be a maximum 4-ft x 4-ft	
	Georgia-Pacific DensDeck	Min. 1/4-inch thick	
	Georgia-Pacific DensDeck Prime		
	Georgia-Pacific DensDeckStorm X Prime	Min. 5/8-inch thick	
Insulation/Cover	JM ENRGY 3		
Boards	JM ENRGY 3 C1		
	JM ENRGY 3 AGF	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a	
	JM ENRGY 3 CGF	maximum 4 ft x 4 ft	
	JM ENRGY 3 C1 CGF JM ENRGY 3 FR		
	JM Fesco Board	Min. 3/4-inch thick; Min. 20 psi	
		Min. 1 1/2-inch thick; Min. 20 psi  Min. 1 1/2-inch thick; Min. 20 psi; Adhered boards shall be	
	JM Fesco Foam	a maximum 4 ft x 4 ft	

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Component	Product	Installation Detail	
	JM Invinsa Roof Board	1/4-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM Invinsa Foam Roof Board		
	JM Invinsa FR Roof Board	1/4-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM ProtectoR Foam	Min. 2-inch thick; Min. 80psi top layer; Min. 20psi bottom layer; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM ProtectoR HD	1/2-inch thick; Min. 80 psi; Adhered boards shall be a	
	JM ProtectoR HD FR	maximum 4 ft x 4 ft	
	JM Retro-Fit Board	1/2-inch thick; Adhered boards shall be a maximum	
	JM RetroPlus Roof Board	4 ft x 4 ft	
Insulation/Cover	JM SECUROCK Glass-Mat Roof Board		
Boards (Cont'd)	JM SECUROCK Gypsum-Fiber Roof Board	Min. 1/4-inch thick	
	JM SeparatoR	4/O habithiala Mia Of asia Adhanad basada aball ba	
	JM SeparatoR CGF	1/2-inch thick; Min. 25 psi; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM SeparatoR FR	THANHAIT TRATE	
	National Gypsum DEXcell Cement Roof Board	Min. 7/16-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
	National Gypsum DEXcell Glass Mat Roof Board	Min 1/4 inch thick	
	National Gypsum DEXcell FA Glass Mat Roof Board	Min. 1/4-inch thick	
	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft; For use only with JM TPO FB 150 and 175 membranes only	
	JM All Season Sprayable Bonding Adhesive	For JM TPO smooth backed membranes, the adhesive is applied at a total rate of 1,000ft²/canister; Applied simultaneously to underside of membrane and substrate;  For JM TPO fleece backed membranes the adhesive is applied both to the substrate and the underside of the membrane at a rate of 0.21-0.23 gal/100ft² for a total	
	JM Roofing System Urethane Adhesive	application rate of 0.41-0.47gal/100ft <sup>2</sup> Ribbon adhered in 3/4 to 1-inch wide beads; For use only with JM TPO Fleece Backed membranes only	
TPO Membrane	JM Membrane Bonding Adhesive (TPO & EPDM)	Fully adhered at rate of 50-90 ft²/gal(1.1-2.0 gal/100ft²); Applied simultaneously to underside of membrane and substrate; For use with JM TPO smooth backed membranes only	
Adhesives	JM LVOC Membrane Adhesive (TPO & EPDM)	Fully adhered at rate of 50-90 ft²/gal(1.1-2.0 gal/100ft²); Applied simultaneously to underside of membrane and substrate; For use with JM TPO smooth backed membranes only	
	JM TPO 1168 Membrane Adhesive	Fully adhered at rate of 50-90 ft²/gal(1.1-2.0 gal/100ft²); Applied simultaneously to underside of membrane and substrate; For use with JM TPO smooth backed membranes only	
	JM TPO Water Based Membrane Adhesive	Bareback TPO shall be fully adhered in two-sided application at a combined rate of 0.6-0.8 gal/100ft <sup>2</sup> or one-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft <sup>2</sup> ; Fleeceback TPO shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft <sup>2</sup>	
	JM Two Part Urethane Insulation Adhesive Canister	Applied in spatter pattern at a rate of 0.32 gal/100ft <sup>2</sup> or 1/2-inch wide beads; For use only with JM TPO Fleece Backed membranes only	
	JM SA Primer Low VOC	Applied at rate of 0.5 gal/100ft <sup>2</sup>	
SA Primer	JM SA Primer	Applied 0.75-1.25 gal/100ft <sup>2</sup> on porous surfaces and 0.25-0.75 gal/100ft <sup>2</sup> on nonporous surfaces	

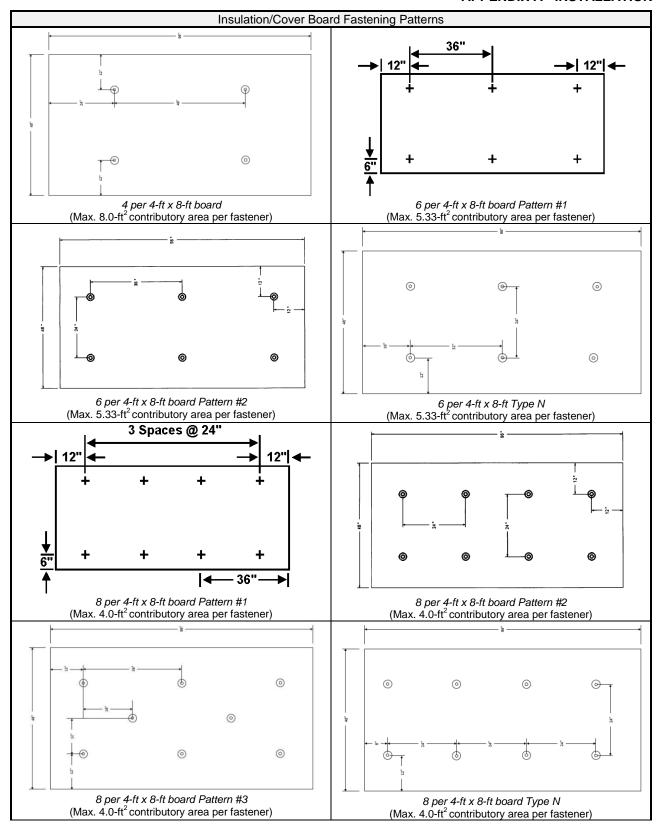
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Component	Product	Installation Detail	
SA Primer (Cont'd)	JM All Season Sprayable Bonding Adhesive	Applied at rate of 500 ft²/canister	
	JM DynaBase HW JM DynaWeld Base JM DynaWeld Cap	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered; Concrete decks primed prior to torch	
	JM DynaBase JM DynaBase PR	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied	
Vanor Darriora	JM DynaLastic 180 S JM DynaLastic 250 S	with hot or cold approved adhesives	
Vapor Barriers	JM DynaFast 180 S	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold <i>approved</i> adhesives	
	JM DynaGrip Base SD/SA	Min. 3-inch wide side-laps; Min. 6-inch end laps; Self-adhered	
	JM Vapor Barrier SA	Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps	
	JM Vapor Barrier SAR	Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps	
Vapor Barrier Adhesives	DynaSet 1k  DynaSet 2k	Min. 4-inch laps sealed at a rate of 1.5-2.0gal/100ft <sup>2</sup> ; Applied to substrate in 0.5-0.75-inch wide continuous ribbons	
	JM DynaBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold <i>approved</i> adhesives	
Base Sheets	JM DynaBase HW	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered	
Dase Glicele	JM DynaFast 180 S	Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems	
	JM Ventsulation Felt	Min. 4-inch wide side-laps; Min. 6-inch end laps	
	JM TPO-45		
	JM TPO-60	Min. 2-inch wide side-laps with min. 1.5-inch wide heat	
	JM TPO-80	weld for adhered systems; In-lap fastened systems shall	
TPO Single-Ply	JM TPO FB 115	have min. 6-inch wide side-laps with min. 1.5-inch wide	
Membranes	JM TPO FB 135	heat weld; Side-laps shall be installed perpendicular to the	
	JM TPO FB 150	direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems	
	JM TPO FB 175	of the wood trusses for inconanically attached systems	
	JM TPO SA-60 mil		
Collular Liebtusiah	Celcore MF with HS Rheology Admixture	Slurry coat min. 1/8-inch thick; 1-inch thick EPS board (1 lbs/ft³); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of 300 ft²/gal	
Cellular Lightweight Concrete	Mearlcrete		
Concrete	Elastizell	Slurry coat min. 1/8-inch thick; 1" thick EPS board	
	Concrecel	(1 lbs/ft <sup>3</sup> ); Min. 2-inch thick top coat	
	Cellular Lightweight Concrete		

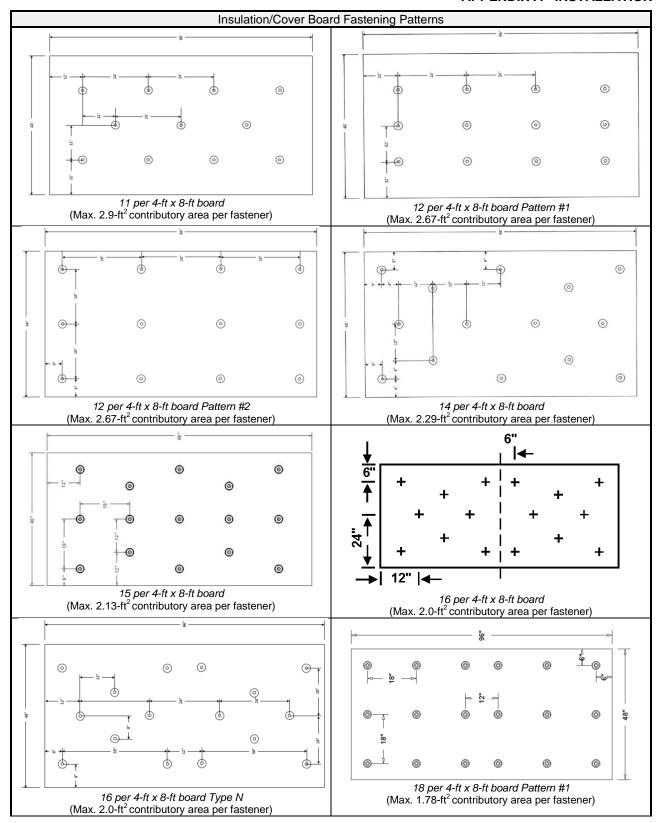
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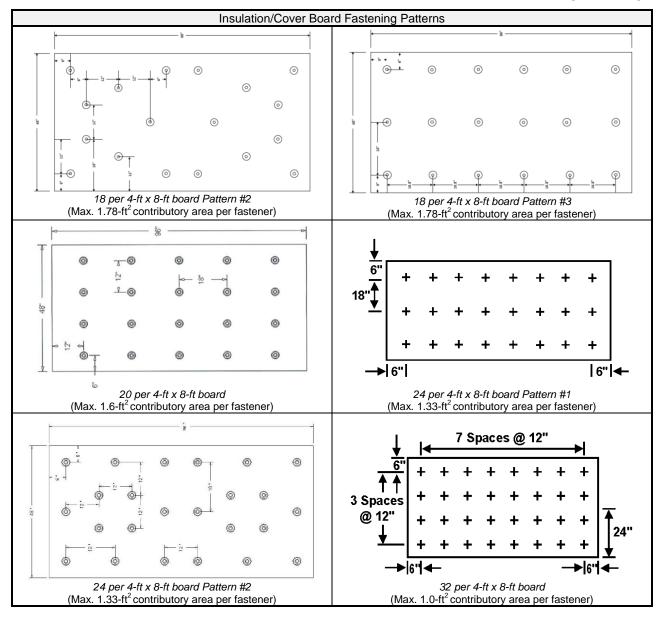


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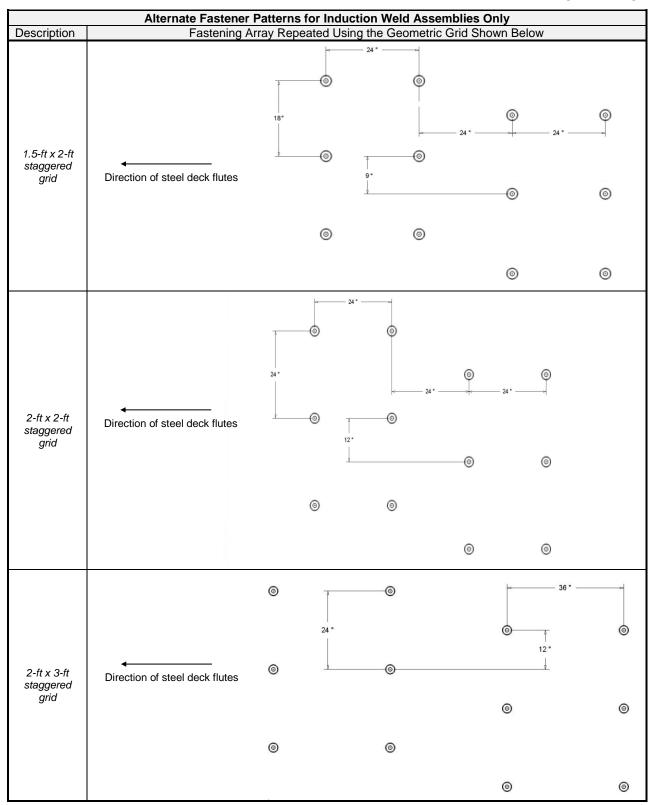






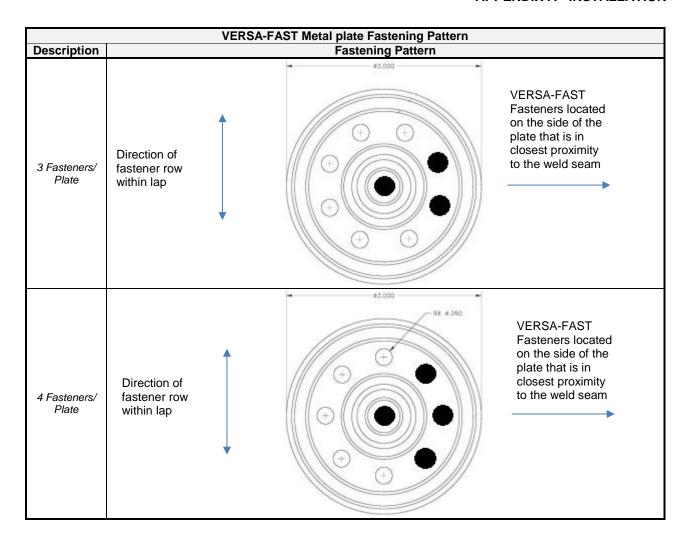






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#### **NOMENCLATURE**

The following naming conventions are utilized to specify products in the <u>APPROVED ASSEMBLIES</u> section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected assembly. Installation requirements shall be as noted in the <u>APPROVED ASSEMBLIES</u> section of this report.

Name	Definition		
1168	JM 1168 Membrane Adhesive		
2-Part UIA	JM Two Part Urethane Insulation Adhesive, JM Two-Part UIA, JM Two Part Urethane Insulation Adhesive Canister, or JM Two-Part UIA Canister		
2-Part UIA-C(B)	JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister applied in 1/2-inch wide beads		
2-Part UIA-C(S)	JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister applied in spatter application at a rate of 3.5-3.9 lbs/100ft <sup>2</sup>		
AP Fasteners & Plates	All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast Metal Plate (Round) or UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat		
AP Fasteners & Plates (Square)	All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat		
AP Fasteners & Trufast Plates	All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and Trufast 3" Metal Insulation Plate		
APB Fasteners & Plates	JM APB Plates and JM High Load Fasteners (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck)		
As Tested	Information provided to the report user based on the as tested condition of the roof system		
ASBA	JM All Season Sprayable Bonding Adhesive		
Cover Board	One layer of any of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime - Georgia-Pacific DensDeck StormX Prime -JM Invinsa Roof Board -JM Invinsa FR Roof Board -JM ProtectorR HD -JM ProtectorR HD -JM PSECUROCK Glass-Mat Roof Board -JM SECUROCK Gypsum-Fiber Roof Board -JM SeparatoR -JM SeparatoR -JM SeparatoR -JM SeparatoR CGF -JM SeparatoR FR -National Gypsum DEXcell FA Glass Mat Roof Board -National Gypsum DEXcell Cement Roof Board		
Deck Detail	All decks shall be designed by others in accordance with FBC requirements.  As Tested deck construction details are described as follows:  Concrete Deck Min. $f_c = 2,500$ psi at 28 days  CWF Deck Min. 2.5-inch thick Tectum I cementitious wood fiber panels		

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Name Definition					
			Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for <i>LWIC</i> applications only. The following nomenclature is used to further describe the <i>As Tested</i> condition.		
		F<#>	<#> of #12-24 HWH self-drilling screws or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration		
		G<#>	Min. Grade <#> of Steel Deck		
		H<#>	<#> of Hilti X-HSN 24 fastener or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration		
	0, 10, 1	L<#>	Max. span of <#> ft		
	Steel Deck	Р	Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports		
		S<#>	1/4 "-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps		
Deck Detail (Cont'd)		SD<#>	<#> of SFS Intec SD5-#12-HW5/16 Fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration		
		SDL<#>	SDL-#14-HW5/16 secured <#>-inch o.c. along the panel side laps		
		HS<#>	Hilti SOSLC 01M fastener or equivalent fastener secured <#>-inch o.c. along the panel side laps		
		W	3/4-inch O.D. flat washer used with indicated fastener		
	Wood Deck	HVHZ: AP condition:	<b>HVHZ:</b> APA Span-Rated sheathing. The following nomenclature is used to further describe the <i>As Tested</i> condition:		
		T<#>P	Min. <#>-inch thickness of the plywood		
		T<#>0	Min. <#>-inch thickness of the OSB		
		L<#>	Max. span of <#> inches		
		N<#>	Min. 0.113-inch diameter x 2-3/8-inch ring shank nails spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board		
		16S<#>	Min. 16 ga. staples, 1.5-inch x 1-inch crown spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board		
DF	Dekfast DF-#12-PH (Steel Deck, or Woo		ood Deck), Dekfast DF-#14-PH# (Concrete Deck, Steel Deck, or Wood Deck), or Dekfast DF-#15-PH3 st PLT-R-3		
DensDeck	Min. 1/4-inch Georg	ia-Pacific DensDec	k		
DensDeck Prime	Min. 1/4-inch Georg	ia-Pacific DensDec	k Prime; or Georgia-Pacific DensDeck StormX Prime		
DEXcell CB	Min. 1/4-inch Natior	nal Gypsum DEXcel	Cement Roof Board		
DEXcell FA	Min. 1/4-inch Natior	Min. 1/4-inch National Gypsum DEXcell FA Glass Mat Roof Board			
E3	JM ENRGY 3, JM E	JM ENRGY 3, JM ENRGY 3 AGF, JM ENRGY 3 CGF or JM ENRGY 3 FR			
E3 C1	JM ENRGY 3 C1 or	JM ENRGY 3 C1 or JM ENRGY 3 C1 CGF			
EPS	ASTM C 578 expan	ASTM C 578 expanded polystyrene insulation board, min. Type IX in HVHZ			
Extra HL Fasteners & Plates	JM Extra High Load	Fasteners (Wood L	Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM Extra High Load Plates		
FASTENERS			Fastener, Dekfast DF-#12-PH3, JM All Purpose Fastener, Trufast #14 HD Fastener, Dekfast DF-#14- DF-#15-PH3, or Trufast #15 EHD Fastener		

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Name	Definition	Definition				
	Choose one of the following fastener and plate combinations for the given conditions:					
	Board or Base Sheet Fastener Plate			Roof Deck		
	Any	JM All Purpose Fastener, JM Structural Concrete Deck Fastener, Dekfast DF-#14- PH3, or Trufast #14 HD Fastener	JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed	Concrete		
	Any	JM UltraFast Fastener, Trufast #12 DP Fastener, Trufast #14 HD Fastener, JM High Load Fastener, Dekfast DP-#15-PH3, or Trufast #15 EHD Fastener	JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed	Steel		
	Any	JM UltraFast Fastener, Trufast #12 DP Fastener, Dekfast DF-#12-PH3, JM All Purpose Fastener, Dekfast DF-#14-PH3, JM High Load Fastener, Dekfast DF-#15- PH3, or Trufast #15 EHD Fastener	JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed	Plywood		
	Any	Dekfast DF-#14-PH3	Dekfast PLT-R-3	Concrete		
Fasteners & Plates	Any	Dekfast DF-#12-PH3 or Dekfast DP-#15- PH3	Dekfast PLT-R-3	Steel		
Tasieriers & Fraies	Any	Dekfast DF-#12-PH3, Dekfast DF-#14- PH#, or Dekfast DF-#15-PH3	Dekfast PLT-R-3	Plywood		
	Any	JM All Purpose Fastener, JM Structural Concrete Deck Fastener, or Trufast #14 HD Fastener	Trufast 3" Metal Insulation Plates	Concrete		
	ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK	JM UltraFast Fastener or JM High Load Fastener	Trufast 3" Metal Insulation Plates	Steel		
	ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK	JM UltraFast Fastener, JM All Purpose Fastener or JM High Load Fastener	Trufast 3" Metal Insulation Plates	Plywood		
	Any	Trufast #12 DP Fastener, Trufast #14 HD Fastener, or Trufast #15 EHD Fastener	Trufast 3" Metal Insulation Plates	Steel		
	Any	Trufast #12 DP Fastener or Trufast #15 EHD Fastener	Trufast 3" Metal Insulation Plates	Plywood		
HL Fasteners & Plates	1) JM High Load (Concrete Dec 2) Trufast #15 EH Metal Seam P	<ul> <li>(Concrete Deck) and JM High Load Plates;</li> <li>Trufast #15 EHD Fasteners (Steel Deck) or Trufast #14 HD Fasteners (Concrete Deck) and 2.4" Scoop Seam Plate, 2.4" Barbed Metal Seam Plate, or 2.4" Barbed Metal Seam Plate (14-Barb);</li> </ul>				

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Name	Definition
INSULATION	One of more layers in any combination of the following products:  -Approved EPS board  -ENRGY 3  -ENRGY 3 AGF  -ENRGY 3 CGF  -ENRGY 3 FR  -ENRGY 3 C1  -Fesco Board  -Fesco Foam  -Invinsa Roof Board  -Invinsa FR Roof Board  -ProtectoR Foam  -ProtectoR HD  -ProtectoR HD FR  -Retro-Fit Board  -Retro-Fit Board  -SECUROCK Glass-Mat Roof Board  -SECUROCK Gypsum-Fiber Roof Board  -SeparatoR  -SeparatoR  -SeparatoR  -SeparatoR FR
INVINSA	JM Invinsa or JM Invinsa FR Roof Board
ISOWELD-#15	isoweld FI-P-6.8-TPO plates and DEKFAST DF-#15-PH3 Fasteners
ISOWELD-#12	isoweld FI-P-6.8-TPO plates and DEKFAST DF-#12-PH3 Fasteners
IW	Any one of the following fastener and plate combinations:  1) JM All Purpose Fasteners, JM High Load Fasteners, JM Structural Concrete Deck Fasteners, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3, Trufast #14 HD Fasteners, or Trufast #15 EHD Fasteners and JM TPO RhinoPlates;  2) Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Trufast Fluted Concrete Nails and Trufast TPO IW Plates;  3) JM All Purpose Fasteners, JM High Load Fasteners, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3 and isoweld FI-P-6.8-TPO plates;
JM TPO	One ply of any one of the following products: JM TPO-45, JM TPO-60, or JM TPO-80
JM TPO FB	One ply of any one of the following products: JM TPO FB 115 or JM TPO FB 135
JM TPO FB w/DynaBase HW	JM TPO FB 115 or JM TPO FB 135 adhered over a torch applied DynaBase HW base ply
JM TPO HFB	One ply of any one of the following products: JM TPO FB 150 or JM TPO FB 175
JM TPO SA	One ply of any one of the following products:  JM TPO SA-60 mil
LVOC MA	JM LVOC Membrane Adhesive (TPO & EPDM)
LWIC	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
MBA	JM Membrane Bonding Adhesive (TPO & EPDM)
MCRF	Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly
MDP	Maximum Design Pressure

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Name	Definition
OMG Fasteners & Plates	OMG XHD fasteners and 3 in. Ribbed Galvalume Plates (Flat)
OSFA	JM One-Step Foamable Adhesive
PLT-R-3	Dekfast PLT-R-3 plates
Preliminarily Secured	Fastened at minimum rate of 5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board.
ProtectoR	JM ProtectoR HD or JM ProtectoR HD FR Roof Board
Recover	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened roof assemblies and induction welded assemblies, i.e. systems x-M-# and x-W-#, the insulation layer is optional, or any INSULATION board or slip sheet may be used as separation layer prior to installing the approved roof assembly.
Retro-Fit	JM Retro-Fit Board
RetroPlus	JM RetroPlus Roof Board
RhinoPlates	Any one of the following fastener and plate combinations:  4) JM High Load Fasteners (Steel or Wood Deck), Trufast #15 EHD Fasteners (Steel Deck), or JM All Purpose Fasteners (Concrete Deck) and JM TPO RhinoPlates;  5) Trufast #15 EHD Fasteners (Steel Deck), Trufast #14 HD Fasteners (Concrete Deck), or Trufast Fluted Concrete Nails (Concrete Deck) and Trufast TPO IW Plates;  6) JM High Load Fasteners (Steel or Wood Deck), JM All Purpose Fasteners (Concrete Deck), Dekfast DF-#14-PH3 (Concrete Deck) and isoweld FI-P-6.8-TPO plates;
RSUA	JM Roofing System Urethane Adhesive
SECUROCK	Min. 1/4-inch JM SECUROCK Gypsum-Fiber Roof Board
StormX	DensDeck StormX Prime
TF	Trufast #12 DP Fastener (Steel Deck or Wood Deck), Trufast #14 HD Fastener (Concrete Deck, Steel Deck, or Wood Deck), or Trufast #15 EHD Fasteners (Concrete Deck, Steel Deck or Wood Deck) with Trufast 3" Metal Insulation Plate
TPO Bonding Adhesives	Any one of the following products: -JM Membrane Bonding Adhesive (TPO & EPDM) -JM LVOC Membrane Adhesive (TPO & EPDM) -JM TPO Water Based Membrane Adhesive
TPO WBMA	JM TPO Water Based Membrane Adhesive
Trufast Seam Plates	Trufast 2.4" Scoop Seam Plates and Trufast #15 EHD Fasteners
Trufast IW Plates	Trufast TPO IW Plates and Trufast #15 EHD Fasteners (steel deck only), Trufast #14 HD Fasteners (concrete deck only), or Trufast Fluted Concrete Nails (concrete deck only)
UF	JM UltraFast Fasteners (Steel Deck or Wood Deck), JM All Purpose Fasteners (Concrete Deck, Steel Deck, or Wood Deck), or JM High Load Fasteners (Wood Deck or Steel Deck) with JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed
UIA	JM Urethane Insulation Adhesive
UltraFast Fasteners & Trufast Plates	JM UltraFast Fasteners (Steel Deck and Wood Deck), Trufast #12 DP Fasteners, JM All Purpose Fasteners (Concrete Deck), or Trufast #14 HD Fasteners and Trufast 3" Metal Insulation Plates
UltraFast Plates	UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plates (Round), or UltraFast Plate Metal Recessed
UltraFast Plates (Square)	UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat

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Name	Definition								
Vapor Barrier	-4mil or 6mil Polyethylene -JM Vapor Barrier SA or J Glass Mat Roof Board or I -DynaGrip Base SD/SA, s	One of the following vapor barriers installed over the deck:  4mil or 6mil Polyethylene, loose laid  JM Vapor Barrier SA or JM Vapor Barrier SAR, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board, DEXcell FA  Glass Mat Roof Board or DEXcell Cement Roof Board. The thermal barrier may be primed with JM SA Primer Low VOC, or SA Primer  DynaGrip Base SD/SA, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board  DynaBase HW, torch applied to minimum 0.5-inch thick DEXcell FA Glass Mat Roof Board  Done of the following options may be utilized as allowed by the Approved Assembly. The MDP shall be limited to the lesser of rating of the							
		he <i>MDP</i> for the chosen vapor barrier		,	limited to the lesser of rating				
	Primer	Vapor Barrier		VB Application	Insulation Adhesive	MDP (psf)			
	None	DynaBase HW		Torch adhered	OSFA 12-inch o.c.	-172.5			
	None	DynaBase HW		Torch adhered	2-Part UIA 12-inch o.c.	-135			
	None	DynaBase HW		Torch adhered	RSUA 12-inch o.c.	-195			
	ASTM D 41	DynaGrip Base SD/SA		Self-adhered	OSFA 12-inch o.c.	-90			
	ASTM D 41	DynaGrip Base SD/SA		Self-adhered	2-Part UIA 12-inch o.c.	-97.5			
	ASTM D 41	DynaGrip Base SD/SA		Self-adhered	RSUA 12-inch o.c.	-82.5			
	None	DynaLastic 180 S, DynaLastic 250 DynaFast 180 S, or DynaBase PR sealed with DynaSet 1k	·Lans	DynaSet 1k 12-inch o.c.	OSFA, 2-Part UIA, or RSUA 12-inch o.c.	-232.5			
Vapor Barriers for Adhered Assemblies over Concrete Deck	None	DynaLastic 180 S, DynaLastic 250 DynaFast 180 S, or DynaBase PR sealed with DynaSet 1k	·Lans	DynaSet 1k 12-inch o.c.	ASTM D 312, Type IV Asphalt	-337.5			
	None	DynaLastic 180 S, DynaLastic 250 DynaFast 180 S, or DynaBase PR sealed with DynaSet 2k	·Lans	DynaSet 2k 12-inch o.c.	OSFA, 2-Part UIA, or RSUA 12-inch o.c.	-97.5			
	None	DynaLastic 180 S, DynaLastic 250 DynaFast 180 S, or DynaBase PR sealed with DynaSet 2k	·Lans	DynaSet 2k 12-inch o.c.	ASTM D 312, Type IV Asphalt	-75			
	ASTM D 41	DynaWeld Base		Torch adhered	OSFA 12-inch o.c.	-150			
	ASTM D 41	DynaWeld Base		Torch adhered	2-Part UIA 12-inch o.c.	-120			
	ASTM D 41	DynaWeld Base		Torch adhered	RSUA 12-inch o.c.	-285			
	JM SA Primer Low VOC	JM Vapor Barrier SA or SAR		Self-adhered	OSFA or RSUA 12-inch o.c.	-135			
	JM SA Primer Low VOC	JM Vapor Barrier SA or SAR		Self-adhered	2-Part UIA 12-inch o.c.	-82.5			
Vapor Barriers for Adhered Assemblies over CWF Deck	Approved Assembly and t	ns may be utilized as allowed by the he MDP for the chosen vapor barrier Adhesive Primer		•	limited to the lesser of rating				
Assemblies over CVVF Deck				VB Application  Torch adhered		MDP (psf)			
VEDOA FACT			DynaWeld Cap	1 orch adhered	RSUA 12-inch o.c.	-250			
VERSA-FAST	Trufast VERSA-FAST Pla	tes and Fasteners							

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#### APPROVED ASSEMBLIES FOR JM TPO SINGLE-PLY MEMBRANES

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

- 1. Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9.
- 2. Refer to LIMITATIONS and NOMENCLATURE sections of this evaluation when using the table(s) below.
- 3. Refer to INSTALLATION section of this report for installation detail when the information is not explicitly stated for the selected assembly.
- 4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
- 5. JM Vapor Barrier SA or JM Vapor Barrier SAR may be installed direct to deck prior to installing the roof assembly components for the following assembly types: C-M-#, C-W-#, LC-M-#, LC-W-#, LS-M-#, S-M-#, S-W-#, W-M-#, and W-W-#
- 6. As Tested information for roof deck construction is provided for information only. The addition of the As Tested deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.

	Assembly System Numbers and Definitions
<u>C-A-#</u>	Adhered Assemblies over Concrete Deck (New or Existing)
C-AM-#	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)
C-M-#	Mechanically Fastened Assemblies over Concrete Deck
C-W-#	Induction Welded Assemblies over Concrete Deck
CW-A-#	Adhered Assemblies over Cementitious Wood Fiber Decks (New or Existing)
CW-AM-#	Assemblies with Adhered Membranes over Cementitious Wood Fiber Decks (New or Existing)
G-A-#	Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)
G-AM-#	Assemblies with Adhered Membranes over Insulated Gypsum Deck (New or Existing)
LC-A-#	Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing)
LC-AM-#	Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing)
LC-M-#	Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)
LC-W-#	Induction Welded Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)
LS-A-#	Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)
LS-AM-#	Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing)
LS-M-#	Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)
LS-W-#	Induction Welded Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)
R-A-#	Adhered Recover Assemblies
R-M-#	Mechanically Fastened Recover Assemblies
R-W-#	Induction Welded Recover Assemblies
S-A-#	Adhered Assemblies over Steel Deck (New or Existing)
S-AM-#	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)
S-M-#	Mechanically Fastened Assemblies over Steel Deck (New, Existing or Recover)
S-W-#	Induction Welded Assemblies over Steel Deck
W-M-#	Mechanically Fastened Assemblies over Wood Deck (New or Existing)
W-W-#	Induction Welded Assemblies over Wood Deck (New or Existing)

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		Adhered Asse	emblies over Concret	e Deck (New o	r Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-1	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	DensDeck Prime or StormX in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)
C-A-2	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch <i>E3</i> in <i>RSUA</i> or 2-Part UIA applied 12-inch o.c.	OPTIONAL SECUROCK or JM Invinsa in RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-67.5 (Lim. 9)
C-A-3	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch <i>E3</i> in <i>RSUA</i> or 2-Part UIA applied 12-inch o.c.	OPTIONAL SECUROCK, JM Invinsa or ProtectoR HD in RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 9)
C-A-4	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA or 2-Part UIA applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in 2-Part UIA applied 12-inch o.c.	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA, ASBA	-105 (Lim. 9)
C-A-5	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA or 2-Part UIA applied 12-inch o.c.	OPTIONAL  JM Invinsa or ProtectoR HD in 2- Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-105 (Lim. 9)
C-A-6	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	INVINSA in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim. 9)
C-A-7	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch E3 or ProtectoR Foam in OSFA, RSUA or 2-Part UI applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim 9)
C-A-8	-	RetroPlus in ASTM D 312, Type IV asphalt	-	JM TPO	MBA	-105 (Lim. 9)
C-A-9	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch E3 or ProtectoR Foam in OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	-	JM TPO FB	RSUA applied 4-inch o.c.; or 2-Part UIA-C(S)	-112.5 (Lim 9)

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		Adhered Asse	emblies over Concrete	e Deck (New o	r Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-10	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	DensDeck Prime or StormX in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 4-inch o.c.	-135 (Lim. 9)
C-A-11	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 FR or ProtectoR Foam in 2-Part UIA applied 12-inch o.c.	-	JM TPO	TPO WBMA, ASBA, or MBA	-142.5 (Lim. 9)
C-A-12	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	Min. 1-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	ЈМ ТРО	ASBA or MBA	-157.5 (Lim. 9)
C-A-13	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 or ProtectoR Foam applied in 2-Part UIA at 12-inch o.c.	-	ЈМ ТРО	TPO WBMA or ASBA	-165 (Lim. 9)
C-A-14	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	DensDeck Prime in OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO FB w/DynaBase HW	RSUA applied 12-inch o.c.	-165 (Lim. 9)
C-A-15	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch <i>E3</i> or ProtectoR Foam in <i>2-Part</i> <i>UIA</i> applied 12-inch o.c.	-	JM TPO	LVOC MA	-172.5 (Lim. 9)
C-A-16	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	OPTIONAL Min. 1.5-inch ENRGY 3, ENRGY 3 CGF or ENRGY 3 FR in 2-Part UIA applied 12-inch o.c.	SECUROCK in 2-Part UIA applied 12-inch o.c.	JM TPO	TPO WBMA, ASBA, 1168, or MBA	-180 (Lim. 9)
C-A-17	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	OPTIONAL Min. 1.5-inch ENRGY 3, ENRGY 3 CGF or ENRGY 3 FR in 2-Part UIA applied 12-inch o.c.	DEXcell CB or DEXcell FA in 2-Part UIA applied 12-inch o.c.	JM TPO	TPO WBMA or ASBA	-180 (Lim. 9)
C-A-18	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	DEXcell CB in 2-Part UIA or RSUA applied 12-inch o.c.	JM TPO FB w/DynaBase HW	RSUA applied 12-inch o.c.	-180 (Lim. 9)
C-A-19	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1-inch ENRGY 3, in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	ProtectoR in OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO	TPO WBMA, ASBA, or MBA	-187.5 (Lim. 9)

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		Adhered Asse	emblies over Concret	e Deck (New or	r Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-20	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR, or ProtectoR Foam in 2-Part UIA applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-187.5 (Lim. 9)
C-A-21	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR, or ProtectoR Foam in 2-Part UIA applied 12-inch o.c.	-	JM TPO	TPO WBMA (Two-sided application only) or ASBA	-195 (Lim. 9)
C-A-22	DynaWeld Base over deck primed with ASTM D 41 primer	Min. 0.5-inch E3 C1 or E3 (less ENRGY 3 FR) in 2-Part UIA, RSUA, or OSFA applied12-inch o.c.	DensDeck Prime in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-195 (Lim. 9)
C-A-23	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3, in OSFA or RSUA applied 12-inch o.c.	ProtectoR in OSFA or RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: LVOC MA or MBA  JM TPO FB: 2-Part UIA-C(S)	-210 (Lim. 9)
C-A-24	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3, in OSFA or RSUA applied 12-inch o.c.	ProtectoR in OSFA or RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9)
C-A-25	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	DEXcell FA in OSFA or RSUA; applied 12-inch o.c.	JM TPO	ASBA	-217.5 (Lim. 9)
C-A-26	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	DEXcell FA in OSFA or RSUA; applied 12-inch o.c.	JM TPO FB w/DynaBase HW	RSUA applied 12-inch o.c.	-217.5 (Lim. 9)
C-A-27	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	DensDeck Prime or StormX in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 4-inch o.c.	-217.5 (Lim. 9)
C-A-28	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1.5-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	ProtectoR HD in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	JM TPO	ASBA or MBA	-225 (Lim. 9)
C-A-29	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	Min. 1-inch ENRGY 3 in OSFA, RSUA or 2-Part UIA; applied 12-inch o.c.	DensDeck Prime in OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO	TPO WBMA, ASBA, or 1168	-232.5 (Lim. 9)

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		Adhered Asse	emblies over Concrete	e Deck (New o	r Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-30	DynaBase HW	SECUROCK in RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-31	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF in <i>RSUA</i> applied 12-inch o.c.	SECUROCK in RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-32	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	SECUROCK in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-33	DynaWeld Cap over deck primed with ASTM D 41 primer	Min. 0.5-inch E3 C1 or E3 (less ENRGY 3 FR) in 2-Part UIA, RSUA, or OSFA applied12-inch o.c.	DensDeck Prime in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-247.5 (Lim. 9)
C-A-34	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	INVINSA in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	ЈМ ТРО	TPO WBMA (Two-sided application only) or ASBA	-255 (Lim. 9)
C-A-35	OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck	INVINSA in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-277.5 (Lim. 9)
C-A-36	-	Min. 1.5-inch ENRGY 3 in 2-Part UIA-C(B) applied 12-inch o.c.	-	JM TPO FB	2-Part UIA-C(S)	-277.5 (Lim. 9)
C-A-37	DynaBase HW	SECUROCK in RSUA applied 12-inch o.c.	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA (Two-sided application only), LVOC MA, ASBA, or 1168  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-292.5 (Lim. 9)
C-A-38	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF in <i>RSUA</i> applied 12-inch o.c.	SECUROCK in RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA (Two-sided application only), LVOC MA, ASBA, or 1168  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-292.5 (Lim. 9)
C-A-39	-	Min. 1.5-inch E3 or ProtectoR Foam in 2-Part UIA applied 12-inch o.c.	-	ЈМ ТРО	MBA	-322.5 (Lim. 9)
C-A-40	-	DEXcell CB in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-322.5 (Lim. 9)

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		Adhered Asse	emblies over Concret	e Deck (New or	Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-41	OPTIONAL DynaGrip SD/SA over deck primed with ASTM D 41 primer	Min. 1-inch E3 C1 or E3 (less ENRGY 3 FR) in 2-Part UIA, RSUA, or OSFA applied12-inch o.c.	DensDeck Prime in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-337.5 (Lim. 9)
C-A-42	-	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-345 (Lim. 9)
C-A-43	-	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO	LVOC MA	-360 (Lim. 9)
C-A-44	-	DEXcell CB or DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO	LVOC MA, TPO WBMA (Two-sided application only), MBA, or 1168 (DEXcell FA only)	-390 (Lim. 9)
C-A-45	-	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-390 (Lim. 9)
C-A-46	-	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO	ASBA	-390 (Lim. 9)
C-A-47	-	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-390 (Lim. 9)
C-A-48	-	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO HFB	ASTM D 312, Type IV Asphalt	-390 (Lim. 9)
C-A-49	-	-	-	JM TPO FB	2-Part UIA-C(S)	-457.5 (Lim. 9)
C-A-50	-	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO	TPO WBMA	-465 (Lim. 9)
C-A-51	-	INVINSA in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	ЈМ ТРО	MBA applied 0.83 gal/100ft <sup>2</sup>	-465 (Lim. 9)
C-A-52	-	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO FB	2-Part UIA-C(S)	-465 (Lim. 9)
C-A-53	-	SECUROCK in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO	MBA applied 0.83 gal/100ft <sup>2</sup>	-495 (Lim. 9)
C-A-54	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-502.5 (Lim. 9)

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		Assemblie	s with Adhered Me	mbranes over I	nsulated Concrete Decl	k (New, Existii	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-1	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> or ASBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
C-AM-2	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates secured 1 fastener per 4.0ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
C-AM-3	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	AP Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft², TPO WBMA, ASBA or LVOC MA	-45 (Lim. 7; Non- HVHZ)
C-AM-4	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	RetroPlus	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO	MBA	-45 (Lim. 7; Non- HVHZ)
C-AM-5	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO SA	Self-adhered	-45 (Lim. 7)
C-AM-6	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO or JM TPO FB	JM TPO: TPO WBMA;  MBA applied at 0.83 gal/100ft <sup>2</sup> ;  LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S) or  TPO WBMA	-45 (Lim. 7)
C-AM-7	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	Fasteners & Plates secured 1 fastener per 4ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 9)
C-AM-8	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	Fasteners & Plates secured 1 fastener per 4ft <sup>2</sup>	JM TPO (Min. 60 mil) or JM TPO FB	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft <sup>2</sup> ; LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S) or TPO WBMA	-45 (Lim. 9)

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		Assemblie	s with Adhered Me	mbranes over I	nsulated Concrete Decl	k (New, Existii	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-9	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 4.0ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7)
C-AM-10	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 4.0ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7)
C-AM-11	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	AP Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO FB	<i>TPO WBMA</i> or <i>RSUA</i> applied 12-inch o.c.	-45 (Lim. 7)
C-AM-12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern 2	JM TPO FB w/DynaBase HW	RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
C-AM-13	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-14	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-15	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-16	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existir	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-17	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5-inch ENRGY 3	AP Fasteners & Plates secured at a rate of 1 fastener per 1.45ft <sup>2</sup>	JM Invinsa	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-52.5 (Lim. 7)
C-AM-18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5-inch ENRGY 3	AP Fasteners & Plates secured at a rate of 1 fastener per 1.45ft <sup>2</sup>	JM Invinsa or ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-19	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO	MBA applied 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA or ASBA	-52.5 (Lim. 7)
C-AM-20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-21	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-22	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	MBA applied 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or TPO WBMA	-52.5 (Lim. 7)
C-AM-23	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	Base Ply: DynaBase HW Membrane: JM TPO HFB	Base Ply: Torch Adhered  Membrane: ASTM D 312 Type IV  Asphalt	-52.5 (Lim. 7)
C-AM-25	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existir	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-26	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: JM TPO HFB	Base Ply: Torch Adhered  Membrane: ASTM D 312 Type IV  Asphalt	-52.5 (Lim. 7)
C-AM-27	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	AP Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-28	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	AP Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-29	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	AP Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	<i>LVOC MA</i> or <i>MBA</i> applied at 0.55 gal/100ft <sup>2</sup>	-52.5 (Lim. 7)
C-AM-30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-31	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> ; LVOC MA, or ASBA  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-32	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-34	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-35	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured at a rate of 1 fastener per 1.78ft <sup>2</sup>	Min 0.5-inch SECUROCK	<i>OSFA, RSUA</i> or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft, LVOC MA, or ASBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over li	nsulated Concrete Decl	k (New, Existir	ng, or Recover)	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-36	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured at a rate of 1 fastener per 1.78ft <sup>2</sup>	Min 05-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-37	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-38	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	Fasteners & Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-39	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	AP Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	LVOC MA	-60 (Lim. 7)
C-AM-40	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-41	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
C-AM-42	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-43	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, or ASBA  JM TPO FB: 2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-44	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	Min. 1.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-45	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-46	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	SECUROCK, or JM Invinsa	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Decl	k (New, Existi	ng, or Recover)	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-47	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 0.5-inch SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	TPO WBMA or ASBA	-67.5 (Lim. 7)
C-AM-48	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 0.5-inch SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
C-AM-49	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA or ASBA	-67.5 (Lim. 7)
C-AM-50	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
C-AM-51	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3 or ProtectoR Foam	Fasteners & Plates s secured 1 fastener per 2ft <sup>2</sup>	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only) or ASBA	-67.5 (Lim. 7)
C-AM-52	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3	Fasteners & Plates secured 1 fastener per 2ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
C-AM-53	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	TPO WBMA, ASBA, or MBA	-67.5 (Lim. 7)
C-AM-54	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B) or 2-Part UIA applied 6-inch o.c.	JM TPO FB	RSUA 6-inch o.c.	-67.5 (Lim. 7)
C-AM-55	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA, or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-67.5 (Lim. 7)
C-AM-56	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
C-AM-57	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-67.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existii	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-58	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-75 (Lim. 7)
C-AM-59	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-75 (Lim. 7)
C-AM-60	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft², TPO WBMA (two-sided application only) or ASBA	-75 (Lim. 7)
C-AM-61	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
C-AM-62	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA, or ASBA	-75 (Lim. 7)
C-AM-63	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-75 (Lim. 7)
C-AM-64	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates (Square) secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft², TPO WBMA, or ASBA	-75 (Lim. 7)
C-AM-65	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates (Square) secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
C-AM-66	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates (Square) secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	TPO WBMA, ASBA, or MBA	-82.5 (Lim. 7)
C-AM-67	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates (Square) secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
C-AM-68	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates (Square) secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-82.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deck	k (New, Existir	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-69	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO	MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
C-AM-70	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-71	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
C-AM-72	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	TPO WBMA, MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
C-AM-73	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-74	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B) or 2-Part UIA applied 6-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
C-AM-75	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	Min. 0.5-inch DensDeck Prime, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	ASBA, TPO WBMA, MBA or LVOC MA	-82.5 (Lim. 7)
C-AM-76	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	Min. 0.5-inch DensDeck Prime, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-77	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	Min. 1.5-inch E3 or E3 C1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	ASBA, TPO WBMA, MBA or LVOC MA	-82.5 (Lim. 7)
C-AM-78	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	AP Fasteners & Plate secured 1 fastener per 1.6ft <sup>2</sup>	Min. 1.5-inch E3 or E3 C1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-79	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA, or 1168 JM TPO FB: TPO WBMA or ASBA	-90 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existir	ng, or Recover)	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-80	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-90 (Lim. 7)
C-AM-81	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-90 (Lim. 7)
C-AM-82	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: 2-Part UIA-C(S)	-90 (Lim. 7)
C-AM-83	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or TPO WBMA	-105 (Lim. 7)
C-AM-84	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-105 (Lim. 7)
C-AM-85	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft², TPO WBMA, or ASBA	-105 (Lim. 7)
C-AM-86	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA, ASBA, or 1168	-112.5 (Lim. 7)
C-AM-87	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-112.5 (Lim. 7)
C-AM-88	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft <sup>2</sup> or TPO WBMA (Two-sided application only)	-120 (Lim. 7)
C-AM-89	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)
C-AM-90	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft <sup>2</sup> for one-sided and two-sided application), MBA, or LVOC MA	-120 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deck	k (New, Existir	ng, or <i>Recover</i> )	
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-91	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 4-inch o.c.	JM TPO	TPO WBMA, MBA, LVOC MA, or ASBA	-120 (Lim. 7)
C-AM-92	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	ASBA or MBA	-127.5 (Lim. 7)
C-AM-93	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-135 (Lim. 7)
C-AM-94	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO or JM TPO FB	TPO WBMA (Two-sided application only for JM TPO)	-150 (Lim. 7)
C-AM-95	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-150 (Lim. 7)

		Mechan	ically Fastened Asse	emblies over Concrete	Deck (New or I	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-1	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	ЈМ ТРО	Attached in-lap 12-inch o.c. with JM All Purpose Fasteners and JM High Load Plus Plates; Fastener rows max. 114-inch o.c.	-30 (Lim. 7; Non- HVHZ)
C-M-2	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7; Non- HVHZ)
C-M-3	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-30 (Lim. 7; Non- HVHZ)
C-M-4	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)

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		Mechan	cally Fastened Asse	emblies over Concrete	Deck (New or	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-5	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 66-inch .c.	(-45 Lim. 7)
C-M-6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 12-inch o.c. with JM All Purpose Fasteners and JM High Load Plus Plates; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)
C-M-7	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
C-M-8	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
C-M-9	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
C-M-10	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-11	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
C-M-12	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	(-60 Lim. 7)
C-M-13	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-14	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)

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		Mechan	ically Fastened Asse	emblies over Concrete	Deck (New or	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-15	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
C-M-16	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 66-inch o.c.	(-105 Lim. 7)

		Indu	ction Welded Asse	emblies over Concrete Deck (Ne	w, Existing, or	Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-1	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-2	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates 12-inch o.c. with rows max. 72-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
C-W-3	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 at a rate of 1 fastener per 4.0-ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
C-W-4	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced 24" o.c. in rows 24" o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
C-W-5	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
C-W-6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
C-W-7	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 5.33ft <sup>2</sup> ; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7; Non- HVHZ)

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		Indu	ction Welded Asse	emblies over Concrete Deck (Ne	w, Existing, or	Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-8	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 6 per 4-ft x 8-ft board Pattern #2 (1 fastener per 5.33-ft²); Board installed with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-52.5 (Lim. 7)
C-W-9	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 4.0ft <sup>2</sup> ; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-52.5 (Lim. 7)
C-W-10	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 2-ft x 2-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-60 (Lim. 7)
C-W-11	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #2 (1 fastener per 4.0-ft²); Board installed with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-67.5 (Lim. 7)
C-W-12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
C-W-13	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 at a rate of 1 fastener per 3.2-ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-75 (Lim. 7)
C-W-14	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 1.5-ft x 2-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-82.5 (Lim. 7)
C-W-15	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-16	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
C-W-17	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	RhinoPlates at a rate of 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft²); Board installed with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)

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		Indu	ction Welded Asse	emblies over Concrete Deck (Ne	w, Existing, or	Recover)	
System No.	I Institution I for institution I		Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)	
C-W-18	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 6-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
C-W-19	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced 18" o.c. in rows 18" o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
C-W-20	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
C-W-21	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 2.0ft <sup>2</sup> ; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-105 (Lim. 7)

		Adh	ered Assemblies ov	er Cementitious	Wood Fiber Deck (	New or Exist	ing)	
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-1	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA or RSUA applied 12-inch o.c.	JM Invinsa or Protector R HD	OSFA, 2-Part UIA, or RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c., TPO WBMA	-122.5 (Lim. 9)
CW-A-2	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	OPTIONAL SECUROCK	RSUA, OSFA, or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, or MBA JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-135 (Lim. 9)
CW-A-3	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	OPTIONAL SECUROCK	RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-135 (Lim. 9)
CW-A-4	-	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: LVOC MA, ASBA, 1168, or MBA JM TPO FB: RSUA applied 12-inch o.c.	-140 (Lim. 9)

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		Adh	ered Assemblies ov	er Cementitious	Wood Fiber Deck	New or Exist	ing)	
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-5	-	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-140 (Lim. 9)
CW-A-6	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC, ASBA, or MBA JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-150 (Lim. 9)
CW-A-7	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	SECUROCK	RSUA, OSFA, or 2-Part UIA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-8	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	SECUROCK	RSUA, OSFA, or 2-Part UIA applied 12-inch o.c.	-	-	JM TPO SA	Self-adhered	-157.5 (Lim. 9)
CW-A-9	-	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	OSFA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC, ASBA, or MBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-10	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	OSFA or RSUA applied 12-inch o.c.	Protector R HD	OSFA or RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: LVOC MA, ASBA or MBA  JM TPO FB: 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-11	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	OSFA or RSUA applied 12-inch o.c.	DensDeck Prime	OSFA or RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, ASBA, 1168 or MBA JM TPO FB: 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-12	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	JM Invinsa	RSUA applied 12-inch o.c.	-	-	JM TPO FB	TPO WBMA	-160 (Lim. 9)

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		Adh	ered Assemblies ov	er Cementitious \	Wood Fiber Deck	(New or Exist	ing)	
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-13	-	Min. 475 psi Celcore MF with HS Rheology Admixture installed	Poured-in-place	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-167.5 (Lim. 9)
CW-A-14	-	Min. 475 psi Celcore MF with HS Rheology Admixture installed	Poured-in-place	-	-	JM TPO FB	RSUA applied 4-inch o.c.	-197.5 (Lim. 9)
CW-A-15	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: MBA or 1168  JM TPO FB: 2-Part UIA-C(S)	-255 (Lim. 9; HVHZ only)
CW-A-16	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch E3 C1 or E3 (less ENRGY 3 FR)	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-255 (Lim. 9; HVHZ only)
C-W-A-17	OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck	Min. 1.5-inch ENRGY 3 CGF	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA (Two-sided application only), LVOC MA, ASBA, or 1168  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-255 (Lim. 9; HVHZ only)

		Assemblies with Adh	ered Membranes	over Cementitious Wood	l Fiber Deck (Ne	w or Existing)	
System No.	Base Insulation/Sheet	Base Insulation/Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-AM-1	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	2-Part UIA, applied 12-inch o.c.	JM TPO	TPO WBMA, LVOC MA, ASBA, 1168 or MBA	-45 (Lim. 7; Non- HVHZ)

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		Assemblies with Adh	ered Membranes	over Cementitious Wood	d Fiber Deck (Ne	w or Existing)	
System No.	Base Insulation/Sheet	Base Insulation/Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-AM-2	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch ENRGY 3	2-Part UIA, applied 12-inch o.c.	JM TPO FB	TPO WBMA	-45 (Lim. 7; Non- HVHZ)
CW-AM-3	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	2-Part UIA, applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
CW-AM-4	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	2- <i>Part UIA</i> , applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
CW-AM-5	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18- inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1  Top layer: ProtectoR HD, StormX, or DensDeck Prime	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168 or MBA JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)
CW-AM-6	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18- inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1  Top layer: Invinsa	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, ASBA, or 1168 JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)
CW-AM-7	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18- inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1 Top layer: SeparatoR CGF or SECUROCK	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: ASBA JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)

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		Assemblies with Adh	ered Membranes	over Cementitious Wood	d Fiber Deck (Ne	w or Existing)	
System No.	Base Insulation/Sheet	Base Insulation/Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-AM-8	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18- inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1 Top layer: DensDeck Prime, StormX, or SECUROCK	2-Part UIA, applied 12-inch o.c.	JM TPO FB HFB	ASTM D 312 Type IV Asphalt	-45 (Lim. 7; Non- HVHZ)
CW-AM-9	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18- inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1 Top layer: DEXcell FA	<i>2-Part UIA</i> , applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)

		Assemblies with All	Layers Adhered	over Gypsum Deck	(New or Exist	ting)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-1	OPTIONAL Min. 0.5-inch E3 over OPTIONAL GlasPly IV, GlasPly Premier, PermaPly 28, or DynaBase in ASTM D 312, Type IV asphalt	2-Part UIA applied 12-inch o.c.	ProtectoR HD	2-Part UIA, RSUA or OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, or MBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 9; Non- HVHZ)
G-A-2	OPTIONAL Min. 0.5-inch E3 over OPTIONAL GlasPly IV, GlasPly Premier, PermaPly 28, or DynaBase in ASTM D 312, Type IV asphalt	2-Part UIA applied 12-inch o.c.	ProtectoR HD	2-Part UIA, RSUA or OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 9; Non- HVHZ)
G-A-3	Min. 1.5-inch <i>E3</i> (no FR) or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, or MBA  JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)

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		Assemblies with All	Layers Adhered	over Gypsum Deck	(New or Exis	ting)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-4	Min. 1.5-inch <i>E3</i> (no FR)	2-Part UIA applied 12-inch o.c.	JM Invinsa	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or ASBA  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)
G-A-5	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	ProtectoR HD	2-Part UIA applied 12-inch o.c.	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or ASBA	-75 (Lim. 9)
G-A-6	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-75 (Lim. 9)
G-A-7	Min. 1.5-inch <i>E3</i> (no FR)	2-Part UIA applied 12-inch o.c.	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)
G-A-8	Min. 1.5-inch E3 (no FR)	2-Part UIA applied 12-inch o.c.	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-75 (Lim. 9)
G-A-9	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	<i>OSFA</i> applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, or MBA  JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)
G-A-10	Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	JM Invinsa	<i>OSFA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)
G-A-11	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	ProtectoR HD	OSFA applied 12-inch o.c.	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or ASBA	-77.5 (Lim. 9)
G-A-12	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)

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		Assemblies with All	Layers Adhered	over Gypsum Deck	(New or Exist	ing)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-13	OPTIONAL Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	SECUROCK	RSUA or OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)
G-A-14	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA or OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
G-A-15	-	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-85 (Lim. 9)
G-A-16	Min. 1.5-inch <i>E3</i> (no FR) or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, or MBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-90 (Lim. 9)
G-A-17	JM Invinsa	OSFA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-92.5 (Lim. 9)
G-A-18	Min. 1.5-inch <i>E3</i> or ProtectoR Foam	OSFA applied 12-inch o.c.	-	-	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)
G-A-19	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	OSFA applied 12-inch o.c.	-	-	JM TPO	MBA applied at 0.55 gal/100ft <sup>2</sup>	-150 (Lim. 9; Non- HVHZ)
G-A-20	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	ProtectoR	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, MBA or ASBA JM TPO FB: 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)
G-A-21	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	ProtectoR	OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-150 (Lim. 9; Non- HVHZ)

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		Assemblies with All	Layers Adhered	over Gypsum Decl	k (New or Exis	ting)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-22	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DensDeck Prime	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, MBA, ASBA, or 1168 JM TPO FB: 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)
G-A-23	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DensDeck Prime	OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-150 (Lim. 9; Non- HVHZ)
G-A-24	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DensDeck Prime	OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVHZ)
G-A-25	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-150 (Lim. 9; Non- HVHZ)
G-A-26	OPTIONAL Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)
G-A-27	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVHZ)
G-A-28	OPTIONAL Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	INVINSA	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)
G-A-29	OPTIONAL Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	DEXcell CB	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO MA (LowVOC), LVOC MA, TPO WBMA, MBA or ASBA JM TPO FB: TPO WBMA	-150 (Lim. 9; Non- HVHZ)
G-A-30	OPTIONAL Min. 1.5-inch ENRGY 3	<i>OSFA</i> applied 12-inch o.c.	DEXcell FA	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO MA (LowVOC), LVOC MA, TPO WBMA, MBA, ASBA, or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVHZ)

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		Assemblies with All	Layers Adhered	over Gypsum Deck	(New or Exist	ting)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-31	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell FA	OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-150 (Lim. 9; Non- HVHZ)
G-A-32	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell FA	OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVHZ)
G-A-33	-	-	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-155 (Lim. 9)
G-A-34	Min. 1.5-inch <i>E3</i> or ProtectoR Foam	RSUA applied 12-inch o.c.	-	-	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-187.5 (Lim. 9; Non- HVHZ)
G-A-35	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	ProtectoR	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, MBA or ASBA JM TPO FB: 2-Part UIA-C(S)	-187.5 (Lim. 9; Non- HVHZ)
G-A-36	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	ProtectoR	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-187.5 (Lim. 9; Non- HVHZ)
G-A-37	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, MBA, ASBA, or 1168 JM TPO FB: 2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)
G-A-38	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9; Non- HVHZ)
G-A-39	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-40	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9; Non- HVHZ)

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		Assemblies with All	Layers Adhered	over Gypsum Deck	(New or Exist	ting)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-41	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA (Two-sided application only), LVOC MA, ASBA, 1168, or MBA  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)
G-A-42	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-43	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	INVINSA	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> JM TPO FB: TPO WBMA	-210 (Lim. 9; Non- HVHZ)
G-A-44	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell CB	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO MA (LowVOC), LVOC MA, TPO WBMA (Two-sided application only) or MBA JM TPO FB: TPO WBMA	-210 (Lim. 9; Non- HVHZ)
G-A-45	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell FA	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO MA (LowVOC), LVOC MA, TPO WBMA (Two-sided application only), MBA, ASBA, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)
G-A-46	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell FA	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9; Non- HVHZ)
G-A-47	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell FA	RSUA applied 12-inch o.c.	JM TPO HFB	ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-48	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	RSUA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.55 gal/100ft <sup>2</sup> JM TPO FB: 2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)

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		Assemblie	es with Adhered M	lembranes over Insulated Gypsul	m Deck (New or	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
G-AM-1	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	2-Part UIA, applied 12-inch o.c.	JM TPO	TPO WBMA, LVOC MA, ASBA, 1168 or MBA	-45 (Lim. 7; Non- HVHZ)
G-AM-2	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch ENRGY 3	2-Part UIA, applied 12-inch o.c.	JM TPO FB	TPO WBMA	-45 (Lim. 7; Non- HVHZ)
G-AM-3	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E3 C1</i>	2-Part UIA, applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
G-AM-4	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	2-Part UIA, applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
G-AM-5	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1  Top layer: ProtectoR HD, StormX, or DensDeck Prime	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168 or MBA JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)

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		Assemblie	es with Adhered M	lembranes over Insulated Gypsur	m Deck (New or	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
G-AM-6	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1 Top layer: Invinsa	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, ASBA, or 1168 JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)
G-AM-7	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1  Top layer: SeparatoR CGF or SECUROCK	2-Part UIA, applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: ASBA JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)
G-AM-8	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1  Top layer: DensDeck Prime, StormX or SECUROCK	2-Part UIA, applied 12-inch o.c.	JM TPO FB HFB	ASTM D 312 Type IV Asphalt	-45 (Lim. 7; Non- HVHZ)
G-AM-9	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	OPTIONAL Base layer: Min. 0.5-inch E3 or E3 C1 Top layer: DEXcell FA	2-Part UIA, applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
G-AM-10	-	-	PermaPly 28	Min, 1.8-inch JM UltraLok Fastener secured 7-inch o.c. at the lap and 7-inch o.c. in two (2) equally spaced and staggered rows in the field	JM TPO HFB	ASTM D 312, Type IV hot asphalt	-52.5 (Lim. 7)

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	Adhere	d Lightweight Concrete	Assemblies over Concrete	Deck (New or E	existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-1	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	OSFA or RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 9)
LC-A-2	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by <i>DensDeck</i> <i>Prime</i>	OSFA or RSUA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-45 (Lim. 9)
LC-A-3	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	<i>RSUA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> , TPO WBMA (two- sided application only), LVOC MA or ASBA  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-77.5 (Lim. 9)
LC-A-4	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LC-A-5	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK	Base and Top layer secured with <i>RSUA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA ASBA, 1168, or MBA JM TPO FB: TPO WBM, ASBA or 2-Part UIA-C(S)	-77.5 (Lim. 9)
LC-A-6	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK	Base and Top layer secured with <i>RSUA</i> applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LC-A-7	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> , TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-80 (Lim. 9)
LC-A-8	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)

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	Adhere	d Lightweight Concrete A	Assemblies over Concrete	Deck (New or E	xisting)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-9	Min. 300 psi <i>LWIC</i>	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-80 (Lim. 9)
LC-A-10	Min. 300 psi <i>LWIC</i>	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LC-A-11	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by <i>DEXcell FA</i> , <i>SECUROCK</i> , ProtectoR HD or SeparatoR CGF	OSFA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-90 (Lim. 9)
LC-A-12	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD, SECUROCK, or StormX	OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-90 (Lim. 9)
LC-A-13	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by <i>DensDeck</i> <i>Prime</i>	OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-90 (Lim. 9)
LC-A-14	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by DEXcell FA or SECUROCK	RSUA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-105 (Lim. 9)
LC-A-15	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA, DynaBase HW, or DynaWeld 180 S over ASTM D 41 primed concrete	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-112.5 (Lim. 9)
LC-A-16	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD or SECUROCK	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-112.5 (Lim. 9)
LC-A-17	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by <i>DensDeck</i> <i>Prime</i>	RSUA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-112.5 (Lim. 9)

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	Adhere	d Lightweight Concrete A	Assemblies over Concrete	Deck (New or E	Existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-18	Min. 310 psi Elastizell with Zell- Crete Fibers	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft², TPO WBMA, LVOC MA or ASBA  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-130 (Lim. 9)
LC-A-19	Min. 310 psi Elastizell with Zell- Crete Fibers	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c	JM TPO SA	Self-adhered	-130 (Lim. 9)
LC-A-20	Min. 310 psi Elastizell with Zell- Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-130 (Lim. 9)
LC-A-21	Min. 310 psi Elastizell with Zell- Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-130 (Lim. 9)
LC-A-22	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-147.5 (Lim. 9)
LC-A-23	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-167.5 (Lim. 9)
LC-A-24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase PR under Min. 1.5-inch ENRGY 3	DynaBase PR applied in DynaSet 1k 12-inch o.c.; ENERGY 3 applied in RSUA 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, 1168, ASBA, or TPO WBMA (Two-sided application only)  JM TPO FB: TPO WBMA, or 2-Part UIA-C(S)	-170 (Lim. 9; HVHZ only)
LC-A-25	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-172.5 (Lim. 9)
LC-A-26	Min. 700psi cellular lightweight concrete (MCRF = 152lbf with JM Lightweight Concrete (LWC) CR Base Fasteners)	-	-	JM TPO FB	2-Part UIA-C(S) or TPO WBMA	-180 (Lim. 9)
LC-A-27	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD or SeparatoR CGF	RSUA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-187.5 (Lim. 9)

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	Adhered	d Lightweight Concrete	Assemblies over Concrete	Deck (New or E	Existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-28	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S	-	-	JM TPO FB	TPO WBMA	-202.5 (Lim. 9)
LC-A-29	Min. 360 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S	-	-	JM TPO FB	RSUA applied 8-inch o.c.	-202.5 (Lim. 9)
LC-A-30	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S	-	-	JM TPO	ASBA, LVOC MA, or MBA	-202.5 (Lim. 9)
LC-A-31	Min. 360 psi Celcore MF with HS Rheology Admixture	-	-	JM TPO	ASBA or LVOC MA	-222.5 (Lim. 9)
LC-A-32	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by StormX	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-240 (Lim. 9)
LC-A-33	Min. 375 psi Concrecel	-	-	JM TPO	LVOC MA or MBA	-257.5 (Lim. 9)
LC-A-34	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW	-	-	JM TPO FB	RSUA applied 4-inch o.c.	-257.5 (Lim. 9)
LC-A-35	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, 1168, or ASBA JM TPO FB: 2-Part UIA-C(S)	-277.5 (Lim. 9; HVHZ only)
LC-A-36	Min. 213.5 Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-290 (Lim. 9)
LC-A-37	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1	-	-	JM TPO	ASBA, LVOC MA, or MBA	-305 (Lim. 9)
LC-A-38	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1	-	-	JM TPO FB	TPO WBMA	-305 (Lim. 9)
LC-A-39	Min. 360 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1	-	-	JM TPO FB	RSUA applied 8-inch o.c.	-305 (Lim. 9)
LC-A-40	Min. 360 psi Celcore MF with HS Rheology Admixture	-	-	JM TPO	MBA	-337.5 (Lim. 9)
LC-A-41	Min. 360 psi Celcore MF with HS Rheology Admixture	-	-	JM TPO FB	RSUA applied 8-inch o.c.	-502.5 (Lim. 9)

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	Lightw	eight Concrete Assemblies v	vith Adhered Membranes	over Concrete Deck (New o	or Existing)	
System No.	LWIC	Base Sheet	Insulation	Cover Board	Membrane	MDP (psf)
LC-AM-1	Min. 200 psi Elastizell with Zell-Crete Fibers	PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field	-	-	JM TPO HFB fully adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)
LC-AM-2	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO adhered in TPO WBMA, MBA, ASBA, LVOC MA, or 1168	-45 (Lim. 7)
LC-AM-3	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO SA	-45 (Lim. 7)
LC-AM-4	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO FB adhered in 2-Part UIA-C(S)	-45 (Lim. 7)
LC-AM-5	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	-	JM Invinsa, ProtectoR HD, SeparatoR CGF, SECUROCK or DensDeck Prime adhered in 2-Part UIA applied 12-inch o.c.	JM TPO adhered in TPO WBMA	-45 (Lim. 7)

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	Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing)										
System No.	LWIC	Base Sheet	Insulation	Cover Board	Membrane	MDP (psf)					
LC-AM-6	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	- -	SECUROCK or DensDeck Prime adhered in 2-Part UIA applied 12-inch o.c.	JM TPO HFB adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)					

	Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)										
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)					
LC-M-1	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)					

	Induction Welded Lightweight Concrete Assemblies over Concrete Deck (New or Existing) (New, Existing, or Recover)										
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)					
LC-W-1	Min. 200 psi Elastizell with Zell-Crete Fibers	-	JM TPO RhinoPlates and JM All Purpose Fasteners secured (into <i>Concrete Deck</i> ) 6-inch o.c. in rows spaced 96-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to plates	-60 (Lim. 7)					

	Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)										
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)				
LS-A-1	G33	Min. 475 psi Celcore MF with HS Rheology	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)				
LS-A-2	G33, P, L6, S18	Min. 700psi cellular lightweight concrete ( <i>MCRF</i> = 121lbf with JM Lightweight Concrete (LWC) CR Base Fasteners)	-	-	JM TPO FB	2-Part UIA-C(S)	-52.5 (Lim. 9)				

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		Adhered Light	weight Concrete As	ssemblies over Steel Deck	(New or Existing	1)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-3	G33	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> , TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-77.5 (Lim. 9)
LS-A-4	G33	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LS-A-5	G33	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK	Base and Top layer secured with RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-77.5 (Lim. 9)
LS-A-6	G33	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK	Base and Top layer secured with RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LS-A-7	G33	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft <sup>2</sup> , TPO WBMA, LVOC MA or ASBA  JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-80 (Lim. 9)
LS-A-8	G33	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LS-A-9	G33	Min. 300 psi <i>LWIC</i>	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-80 (Lim. 9)

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		Adhered Light	weight Concrete As	ssemblies over Steel Deck	(New or Existing	1)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-10	G33	Min. 300 psi <i>LWIC</i>	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2- <i>Part UIA</i> applied 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LS-A-11	G80, P, L5, S15	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-97.5 (Lim. 9)
LS-A-12	G80, P, L5, S15	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO	LVOC MA	-97.5 (Lim. 9)
LS-A-13	G33	Min. 310 psi Elastizell with Zell- Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2-Part UIA ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA, 1168, or MBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-130 (Lim. 9)
LS-A-14	G33	Min. 310 psi Elastizell with Zell-Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	2- <i>Part UIA</i> applied 12-inch o.c.	JM TPO SA	Self-adhered	-130 (Lim. 9)
LS-A-15	G33	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup>	-180 (Lim. 9; HVHZ only)
LS-A-16	G33	Min. 700psi cellular lightweight concrete (MCRF = 152lbf with JM Lightweight Concrete (LWC) CR Base Fasteners)	-	-	JM TPO FB	2-Part UIA-C(S)	-180 (Lim. 9; HVHZ only)
LS-A-17	G33	Min. 150 psi <i>LWIC</i>	-	-	JM TPO	<i>MBA</i> applied at 0.83 gal/100ft <sup>2</sup>	-265 (Lim. 9; HVHZ only)

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		Lightweig	ht Concrete Assemblies with	Adhered Membranes o	ver Steel Deck (New or Ex	xisting)	
System No.	Deck Detail	LWIC	Base Sheet	Insulation	Cover Board	Membrane	MDP (psf)
LS-AM-1	G33, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field	-	-	JM TPO HFB adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)
LS-AM-2	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO adhered in TPO WBMA, MBA, ASBA, LVOC MA, or 1168	-45 (Lim. 7)
LS-AM-3	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c.	-	JM TPO SA	-45 (Lim. 7)
LS-AM-4	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO FB adhered in 2-Part UIA-C(S)	-45 (Lim. 7)
LS-AM-5	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.		JM TPO FB adhered in RSUA applied 4-inch o.c.	-45 (Lim. 7)

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		Lightweig	ht Concrete Assemblies with	Adhered Membranes of	over Steel Deck (New or Ex	kisting)	
System No.	Deck Detail	LWIC	Base Sheet	Insulation	Cover Board	Membrane	MDP (psf)
LS-AM-6	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 adhered in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO HFB adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)
LS-AM-7	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	-	JM Invinsa, ProtectoR HD, SeparatoR CGF, SECUROCK or DensDeck Prime adhered in 2-Part UIA applied 12-inch o.c.	JM TPO adhered in TPO WBMA	-45 (Lim. 7)
LS-AM-8	G33, P, L6, S24	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	-	SECUROCK or DensDeck Prime adhered in 2-Part UIA applied 12-inch o.c.	JM TPO HFB adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)

	Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)			
LS-M-1	G33, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fastener &amp; Plates</i> ; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)			

	Induction Welded Lightweight Concrete Assemblies over Steel Deck (New or Existing) (New, Existing, or Recover)											
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)					
LS-W-1	G33, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	-	JM TPO RhinoPlates and High Load Fasteners (into Steel Deck) secured 6-inch o.c. in rows spaced 96-inch o.c	JM TPO (Min. 60 mil)	Induction welded to plates	-60 (Lim. 7)					

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			Adhered Recover Assemblies			
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
R-A-1	BUR or Mod-Bit Roofing with mineral surfacing	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)
R-A-2	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, gypsum, or treated wood	-	DensDeck Prime in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)
R-A-3	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 1.5-inch ENRGY 3 in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	DensDeck Prime or StormX in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)
R-A-4	BUR or Granular Mod- Bit Roofing over cementitious panel, gypsum, or treated wood	-	DensDeck Prime in 2-Part UIA or RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 9)
R-A-5	BUR or Granular Mod- Bit Roofing over <i>Steel</i> <i>Deck</i> , cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-90 (Lim. 9)
R-A-6	BUR or Granular Mod- Bit Roofing over <i>Steel</i> <i>Deck</i> , cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ЈМ ТРО	<i>LVOC</i> MA or 1168	-105 (Lim. 9)
R-A-7	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-105 (Lim. 9)
R-A-8	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	MBA, LVOC MA, ASBA,1168, or TPO WBMA	-105 (Lim. 9)

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	Adhered Recover Assemblies										
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)					
R-A-9	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-105 (Lim. 9)					
R-A-10	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA or ASBA	-105 (Lim. 9)					
R-A-11	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-105 (Lim. 9)					
R-A-12	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-105 (Lim. 9)					
R-A-13	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA, LVOC MA, TPO WBMA, ASBA, or 1168	-105 (Lim. 9)					
R-A-14	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-105 (Lim. 9)					
R-A-15	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-105 (Lim. 9)					
R-A-16	BUR or Granular Mod- Bit Roofing over Steel Deck, cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2- Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-105 (Lim. 9)					

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	Adhered Recover Assemblies										
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)					
R-A-17	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	RSUA applied 4-inch o.c.	-112.5 (Lim. 9)					
R-A-18	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-120 (Lim. 9)					
R-A-19	BUR or Granular Mod- Bit Roofing over over Concrete Deck, Steel Deck, cementitious panel, or treated wood	-	Min. 1-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c.	JM TPO	MBA, LVOC MA, ASBA,1168, or TPO WBMA	-157.5 (Lim. 9)					
R-A-20	BUR or Granular Mod- Bit Roofing over Concrete Deck, Steel Deck, cementitious panel, or treated wood	-	Min. 1-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-157.5 (Lim. 9)					
R-A-21	BUR or Granular Mod- Bit Roofing over over Concrete Deck, Steel Deck, cementitious panel, or treated wood	-	Min. 1-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S) or RSUA applied 12-inch o.c.	-157.5 (Lim. 9)					
R-A-22	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA	-180 (Lim. 9)					
R-A-23	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2- Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA, LVOC MA, TPO WBMA, ASBA, or 1168	-180 (Lim. 9)					
R-A-24	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2- Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self adhered	-180 (Lim. 9)					

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	Adhered Recover Assemblies										
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)					
R-A-25	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2- Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-180 (Lim. 9)					
R-A-26	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2- Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-180 (Lim. 9)					
R-A-27	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-187.5 (Lim. 9)					
R-A-28	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA	-187.5 (Lim. 9)					
R-A-29	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	TPO WBMA	-187.5 (Lim. 9)					
R-A-30	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	TPO WBMA	-195 (Lim. 9)					
R-A-31	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-210 (Lim. 9)					
R-A-32	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	LVOC MA	-210 (Lim. 9)					

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			Adhered Recover Assemblies			
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
R-A-33	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9)
R-A-34	BUR over Concrete Deck	Min. 1.5-inch E3 (no FR) adhered in 2-Part UIA applied 12-inch o.c.	-	JM TPO HFB	ASTM D 312 Type IV Asphalt	-217.5 (Lim. 9)
R-A-35	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ЈМ ТРО	LVOC MA or 1168	-217.5 (Lim. 9)
R-A-36	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO	ASBA	-217.5 (Lim. 9)
R-A-37	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-217.5 (Lim. 9)
R-A-38	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-217.5 (Lim. 9)
R-A-39	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 1.5-inch ENRGY 3 in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	DensDeck Prime or StormX in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 4-inch o.c.	-217.5 (Lim. 9)
R-A-40	BUR or Granular Mod- Bit Roofing over Concrete Deck	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	ProtectoR HD adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c.	JM TPO	ASBA or MBA	-225 (Lim. 9)
R-A-41	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c.	-	JM TPO	<i>MBA</i> or <i>1168</i>	-210 (Lim. 9; Non- HVHZ)

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			Adhered Recover Assemblies			
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
R-A-42	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c.	-	JM PVC FB	2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)
R-A-43	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c.	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO	MBA or LVOC MA	-210 (Lim. 9; Non- HVHZ)
R-A-44	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c.	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-210 (Lim. 9; Non- HVHZ)
R-A-45	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c.	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-210 (Lim. 9; Non- HVHZ)
R-A-46	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-247.5 (Lim. 9; Non- HVHZ)
R-A-47	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO	MBA or LVOC MA	-285 (Lim. 9; Non- HVHZ)
R-A-48	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-285 (Lim. 9; Non- HVHZ)
R-A-49	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	DensDeck Prime adhered in RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-285 (Lim. 9; Non- HVHZ)
R-A-50	BUR or Granular Mod- Bit Roofing over Steel Deck or Concrete Deck	-	DensDeck Prime in 2-Part UIA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-337.5 (Lim. 9)
R-A-51	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	ProtectoR HD adhered in RSUA applied 12-inch o.c.	JM TPO	MBA or LVOC MA	-400 (Lim. 9)
R-A-52	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	ProtectoR HD adhered in RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-400 (Lim. 9)

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	Adhered Recover Assemblies										
System No.	Existing Roof	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)					
R-A-53	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	ProtectoR HD adhered in RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-400 (Lim. 9)					
R-A-54	Granular Mod-Bit Roofing or Granular BUR over Concrete Deck	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-440 (Lim. 9)					

			Mech	nanically Fastened I	Recover Assemblies			
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-1	Steel Deck (G33) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates for Steel Deck or JM All Purpose Fasteners and JM High Load Plus Plates for Concrete Deck; Fastener rows max. 114-inch o.c.	-30 (Lim. 7; Non- HVHZ)
R-M-2	Steel Deck (G80) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fastener & Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
R-M-3	Wood Deck (T19/32)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 4-inch o.c. with APB Fasteners & Plates; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
R-M-4	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 60-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
R-M-5	Existing metal roof having Min. 14 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 60-inch o.c.	-45 (Lim. 7)

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			Mech	nanically Fastened F	Recover Assemblies	}		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-6	Steel Deck (G80, F2W, L6, S24) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Preliminarily Secured	ЈМ ТРО	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates for Steel Deck or JM All Purpose Fasteners and JM High Load Plus Plates for Concrete Deck; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)
R-M-7	Steel Deck (G80, F1, L6, S18) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
R-M-8	Steel Deck (G80, F1, L6, S18) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
R-M-9	Steel Deck (G80, F1, L6, S18) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
R-M-10	Wood Deck (T19/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)
R-M-11	Steel Deck (G80, F1, L6, S18) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
R-M-12	Steel Deck (G33, L6, P) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
R-M-13	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)

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			Mech	nanically Fastened F	Recover Assemblies	<b>.</b>		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-14	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
R-M-15	Steel Deck (G33, L6, P) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
R-M-16	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
R-M-17	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 60-inch o.c.	-82.5 (Lim. 7)
R-M-18	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
R-M-19	Steel Deck (G33, L6, P) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board (Insulation is OPTIONAL with JM TPO FB)	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
R-M-20	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and High Load Plates to structural supports; Fastener rows max. 66-inch o.c.	-105 (Lim. 7)

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			Ind	uction Welded Rec	over Assemblies			
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-W-1	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured 18-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-2	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch <i>E3</i> or <i>Cover Board</i>	JM Purlin Fasteners and JM TPO RhinoPlates secured 6-inch o.c. along the purlins with fastener rows max. 120-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-3	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
R-W-4	Steel Deck (G33, L6, P) or Concrete Deck	OPTIONAL Min. 1.5-inch INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Attached with High Load Fasteners and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P- 6.8-TPO plates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7)
R-W-5	Wood Deck (T15/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)
R-W-6	Wood Deck (T15/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 9-inch o.c. through sheathing into wood structural supports in rows max. 48" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
R-W-7	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured 12-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to weld plates	-67.5 (Lim. 7)

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			Ind	luction Welded Red	over Assemblies			
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-W-8	Steel Deck (G33, L6, P) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Attached with High Load Fasteners and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates at a rate of 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-75 (Lim. 7)
R-W-9	Steel Deck (G33, F2W, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Attached with High Load Fasteners and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft²)	JM TPO (Min. 60 mil)	Induction welded to weld plates	-90 (Lim. 7)
R-W-10	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1-inch <i>E3</i> or <i>EPS</i> placed between ribs	Preliminarily Secured or secured with top layer	OPTIONAL INSULATION	Attached with Trufast TPO IW Plates and Trufast #12 Purlin Fasteners spaced 6-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
R-W-11	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 6-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
R-W-12	Wood Deck (T15/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or <i>Cover Board</i>	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 6-inch o.c. through sheathing into wood structural supports in rows max. 48" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-112.5 (Lim. 7)
R-W-13	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch E3 or EPS placed between ribs	Preliminarily Secured or secured with top layer	Min. 1-inch E3 or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured 6-inch o.c. along the purlins	JM TPO (Min. 60 mil)	Induction welded to weld plates	-120 (Lim. 7)

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			Adhered Assemblies of	ver Steel Deck (New or Exis	sting)		
System No.	Deck	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
S-A-1	G33	Optional JM Vapor Barrier SA	OPTIONAL Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in RSUA spaced12-inch o.c.	Min. 1.5-inch ENRGY 3 applied in <i>RSUA</i> spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-45 (Lim. 9; Non- HVHZ)
S-A-2	G33	Optional JM Vapor Barrier SA	OPTIONAL Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in RSUA spaced12-inch o.c.	Min. 1.5-inch ENRGY 3 applied in <i>RSUA</i> spaced 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 9; Non- HVHZ)
S-A-3	G33	Optional JM Vapor Barrier SA	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in RSUA spaced 12-inch o.c.	ProtectoR HD, SECUROCK, or DensDeck Prime applied in 2-Part UIA, OSFA, or RSUA spaced 12" o.c.	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-45 (Lim. 9; Non- HVHZ)
S-A-4	G33	Optional JM Vapor Barrier SA	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in RSUA spaced 12-inch o.c.	ProtectoR HD, DEXcell FA, SECUROCK, or DensDeck Prime applied in 2-Part UIA, OSFA, or RSUA spaced 12" o.c.	JM TPO SA	Self-adhered	-45 (Lim. 9; Non- HVHZ)

		As	semblies with	Adhered Membi	ranes over Insu	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-1	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 2.67ft <sup>2</sup>	JM TPO SA	Self-adhered	-30 (Lim. 7 Non- HVHZ)
S-AM-2	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 2.67ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft²; LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S), ASBA or TPO WBMA	-30 (Lim. 7 Non- HVHZ)
S-AM-3	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Fesco Foam	Fasteners & Plates secured 1 fastener per 5.3ft <sup>2</sup>	JM TPO	MBA, or LVOC MA	-37.5 (Lim. 7; Non- HVHZ)

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		As	semblies with	Adhered Memb	ranes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-4	G33	ProtectoR attached with Fasteners & Plates at 8 per 4-ft x 8-ft board Pattern #2; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF	OSFA, RSUA, or 2-Part UIA applied 12-inch o.c.	ProtectoR, Retro-Fit, Retro-Plus, SeparatorR CGF, SeparatoR FR, INVINSA, DensDeck, DensDeck Prime, DEXcell FA, or SECUROCK	<i>OSFA, RSUA,</i> or 2-Part UIA applied 12-inch o.c.	JM TPO, JM TPO FB, JM TPO SA, or JM TPO HFB	JM TPO: TPO WBMA, MBA LVOC MA, or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S), ASBA or TPO WBMA  JM TPO: self-adhered  JM TPO HFB: ASTM D 312 Type IV Asphalt	-37.5 (Lim. 7; Non- HVHZ)
S-AM-5	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 per 4-ft x 8-ft board Pattern 3	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)
S-AM-6	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 per 4-ft x 8-ft board Pattern 3	JM TPO HFB	ASTM D 312 Type IV Asphalt	-37.5 (Lim. 7; Non- HVHZ)
S-AM-7	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 per 4-ft x 8-ft board Pattern 3	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
S-AM-8	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates at a rate of 1 fastener per 2.67ft <sup>2</sup>	ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO SA	Self-adhered	-45 (Lim. 7)

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		As	semblies with	Adhered Memb	ranes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-9	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates at a rate of 1 fastener per 2.67ft <sup>2</sup>	ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO or JM TPO FB	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft <sup>2</sup> ; LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S), TPO WBMA, or ASBA	-45 (Lim. 7)
S-AM-10	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	Fasteners & Plates secured 1 fastener per 4ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-11	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	Fasteners & Plates secured 1 fastener per 4ft <sup>2</sup>	JM TPO (Min. 60 mil) or <i>JM TPO FB</i>	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft <sup>2</sup> ; LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S), TPO WBMA, or ASBA	-45 (Lim. 9)
S-AM-12	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener per 5.3ft <sup>2</sup>	JM TPO	MBA, TPO WBMA, LVOC MA, or ASBA	-45 (Lim. 7; Non- HVHZ)
S-AM-13	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener pr 5.3ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-14	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> or ASBA  JM TPO FB: TPO WBMA or ASBA	-45 (Lim. 7; Non- HVHZ)
S-AM-15	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-16	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-17	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO	MBA, LVOC MA, TPO WBMA or ASBA	-45 (Lim. 7; Non- HVHZ)

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		As	semblies with	Adhered Memb	ranes over Ins	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-18	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, or ProtectoR Foam	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
S-AM-19	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 4.0ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA , or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-45 (Lim. 9)
S-AM-20	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 4.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-21	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min.1.5-inch ENRGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA, ASBA or LVOC MA	-45 (Lim. 9)
S-AM-22	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min.1.5-inch ENRGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-23	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	RetroPlus	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO	MBA	-45 (Lim. 9)
S-AM-24	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 4.0ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2- Part UIA;Applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft², LVOC MA or ASBA  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7)
S-AM-25	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 4.0ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7)

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		As	semblies with	Adhered Membi	ranes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-26	22 GA Type N; G80, H1, L12, HS24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3	JM All Purpose Fasteners and Dekfast PLT-H-2-7/8 Plates secured at a rate of 16 per 4-ft x 8-ft board Type N	JM TPO	ASBA, LVOC MA or MBA	-45 (Lim. 7)
S-AM-27	22 GA Type N; G80, H1, L12, HS24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3	JM All Purpose Fasteners and Dekfast PLT-H-2-7/8 Plates secured at a rate of 16 per 4-ft x 8-ft board Type N	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 7)
S-AM-28	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
S-AM-29	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board	JM TPO HFB	ASTM D 312 Type IV Asphalt	-45 (Lim. 7; Non- HVHZ)
S-AM-30	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-31	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	StormX	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
S-AM-32	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	StormX	RSUA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-45 (Lim. 7; Non- HVHZ)
S-AM-33	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	StormX	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-34	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern 2	JM TPO FB w/DynaBase HW	RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)

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		As	semblies with	Adhered Membi	ranes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-35	G33	Min. 0.5-inch DensDeck Prime secured with DF or TF at 1 fastener per 4ft² over OPTIONAL Vapor Barrier	Min. 1.5-inch ENRGY 3	2-Part UIA, OSFA, or RSUA applied 12" o.c.	OPTIONAL ProtectoR HD, SECUROCK, or DensDeck Prime	2-Part UIA, OSFA, or RSUA applied 12" o.c.	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
S-AM-36	G33	Min. 0.5-inch DensDeck Prime secured with DF or TF at 1 fastener per 4ft² over OPTIONAL Vapor Barrier	Min. 1.5-inch ENRGY 3	2-Part UIA, OSFA, or RSUA applied 12" o.c.	OPTIONAL ProtectoR HD, DEXcell FA, SECUROCK, or DensDeck Prime	2-Part UIA, OSFA, or RSUA applied 12" o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-37	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-38	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-39	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-40	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-41	G33, P, L6, S20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured at a rate of 1 fastener per 1.45ft <sup>2</sup>	JM Invinsa	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-52.5 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)												
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	•	Membrane	Membrane Attachment	MDP (psf)				
S-AM-42	G33, P, L6, S20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured at a rate of 1 fastener per 1.45ft²	JM Invinsa or ProtectoR HD	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)				
S-AM-43	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or TPO WBMA or ASBA	-52.5 (Lim. 7)				
S-AM-44	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA or ASBA	-52.5 (Lim. 7)				
S-AM-45	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.67ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)				
S-AM-46	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO HFB	Base Ply: Torch Adhered  Membrane: ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)				
S-AM-47	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)				
S-AM-48	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)				
S-AM-49	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO HFB	Base Ply: Torch Adhered  Membrane: ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)				
S-AM-50	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)				
S-AM-51	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-52.5 (Lim. 7)				

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		As	semblies with	Adhered Membi	ranes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-52	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	LVOC MA or MBA applied at 0.55 gal/100ft <sup>2</sup>	-52.5 (Lim. 7)
S-AM-53	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-54	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft²	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA applied at 0.83 gal/100ft <sup>2</sup> or ASBA  JM TPO FB: TPO WBMA or ASBA	-52.5 (Lim. 7)
S-AM-55	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-56	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-57	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-58	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-59	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-60	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3	JM TPO SA	Self-adhered	-52.5 (Lim. 7)

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		As	semblies with	Adhered Memb	ranes over Insu	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-61	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured at a rate of 1 fastener per 1.78ft <sup>2</sup>	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-62	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Fasteners & Plates secured at a rate of 1 fastener per 1.78ft <sup>2</sup>	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-63	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft <sup>2</sup> , LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-64	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft², LVOC MA, or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-65	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	DF or Fasteners & Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
S-AM-66	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO	LVOC MA or MBA applied at 0.55 gal/100ft <sup>2</sup>	-60 (Lim. 7)
S-AM-67	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-68	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)

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		As	semblies with	Adhered Membr	anes over Ins	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-69	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-70	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-71	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-72	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	UltraFast Fasteners & Plate) 1 fastener per 1.6ft <sup>2</sup>	Min. 1.5-inch E3 or E3 C1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-73	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip fasteners and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 16 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-74	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip fasteners and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 16 per 4-ft x 8-ft board	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
S-AM-75	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	OMG #12 Standard Roofgrip fasteners and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 16 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-76	G33, F2W, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Fasteners & Plates secured 1 fastener per 1ft²	SECUROCK or JM Invinsa	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)												
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)				
S-AM-77	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO	TPO WBMA	-67.5 (Lim. 7)				
S-AM-78	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO FB	TPO WBMA, ASBA or 2-Part UIA-C(S)	-67.5 (Lim. 7)				
S-AM-79	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 7)				
S-AM-80	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate, TPO WBMA or ASBA	-67.5 (Lim. 7)				
S-AM-81	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-67.5 (Lim. 7)				
S-AM-82	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	TPO WBMA or ASBA	-67.5 (Lim. 7)				
S-AM-83	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 2ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only) or ASBA	-67.5 (Lim. 7)				
S-AM-84	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 2ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)				
S-AM-85	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	UltraFast Fasteners & Plate secured 1 fastener per 1.6ft²	Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B) or 2-Part UIA applied 6-inch o.c.	JM TPO FB	RSUA 6-inch o.c.	-67.5 (Lim. 7)				

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		As	semblies with	Adhered Membr	anes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-86	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-67.5 (Lim. 7)
S-AM-87	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
S-AM-88	G33, F1, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.5-inch DensDeck Prime	Fasteners & Plates secured or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.78ft <sup>2</sup>	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
S-AM-89	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-67.5 (Lim. 7)
S-AM-90	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
S-AM-91	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
S-AM-92	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-75 (Lim. 7)
S-AM-93	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: TPO WBMA, ASBA or 2-Part UIA-C(S)	-75 (Lim. 7)
S-AM-94	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only) or ASBA	-75 (Lim. 7)

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		As	semblies with	Adhered Membi	anes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-95	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-96	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA or ASBA	-75 (Lim. 7)
S-AM-97	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	Fasteners & Plates secured 1 fastener per 2.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-75 (Lim. 7)
S-AM-98	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , <i>TPO WBMA</i> or ASBA	-75 (Lim. 7)
S-AM-99	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-100	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA or ASBA	-75 (Lim. 7)
S-AM-101	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-102	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-75 (Lim. 7)
S-AM-103	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-104	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-82.5 (Lim. 7)

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		As	semblies with	Adhered Membi	anes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-105	G80, F1W, L6, S24	Min. 0.5-inch DEXcell FA; Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup> ; JM Vapor Barrier SA self- adhered over SA Primer	Min. 1.5-inch <i>E</i> 3	RSUA or 2-Part UIA applied 6-inch o.c.	Min. 0.5-inch DEXcell FA	<i>RSUA a</i> pplied 6-inch o.c.	JM TPO FB	RSUA applied 6-inch o.c.	-82.5 (Lim. 7)
S-AM-106	G33, F2, L6, S24	Min. 0.5-inch DEXcell FA secured with top layer; JM Vapor Barrier SA self- adhered	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO FB	RSUA applied 4-inch o.c.	-82.5 (Lim. 7)
S-AM-107	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft <sup>2</sup> or TPO WBMA (two-sided application only)	-82.5 (Lim. 7)
S-AM-108	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-82.5 (Lim. 7)
S-AM-109	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA, or ASBA	-82.5 (Lim. 7)
S-AM-110	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA, or ASBA	-82.5 (Lim. 7)
S-AM-111	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-112	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates 1 fastener per 1.33ft <sup>2</sup>	JM TPO	MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
S-AM-113	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-82.5 (Lim. 7)

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		As	semblies with	Adhered Membr	anes over Insu	ilated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-114	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	Fasteners & Plates 1 fastener per 1.33ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-115	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft²	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	TPO WBMA, MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
S-AM-116	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	UltraFast Fasteners & Plate secured 1 fastener per 1.6ft²	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-117	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	UltraFast Fasteners & Plate secured 1 fastener per 1.6ft²	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B) or 2-Part UIA applied 6-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-118	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	Min. 0.5-inch DensDeck Prime, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	ASBA, TPO WBMA, MBA or LVOC MA	-82.5 (Lim. 7)
S-AM-119	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	Min. 0.5-inch DensDeck Prime, DEXcell FA, or SECUROCK	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-120	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1.6ft²	Min. 1.5-inch E3 or E3 C1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO	ASBA, TPO WBMA, MBA or LVOC MA	-82.5 (Lim. 7)
S-AM-121	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	Fasteners & Plates secured 1 fastener per 1.6ft <sup>2</sup>	Min. 1.5-inch E3 or E3 C1	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-122	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA, 2-Part UIA-C(B) or 2-Part UIA applied 4-inch o.c.	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft <sup>2</sup> for one-sided and two-sided application), MBA, ASBA, or LVOC MA	-82.5 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)												
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)				
S-AM-123	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft <sup>2</sup> for one-sided and two-sided application), MBA, or LVOC MA	-82.5 (Lim. 7)				
S-AM-124	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3, E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	ASBA or MBA	-82.5 (Lim. 7)				
S-AM-125	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2	JM TPO SA	Self-adhered	-82.5 (Lim. 7)				
S-AM-126	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168  JM TPO FB: TPO WBMA or ASBA	-82.5 (Lim. 7)				
S-AM-127	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2	JM TPO HFB	ASTM D 312 Type IV Asphalt	-82.5 (Lim. 7)				
S-AM-128	G80, F2, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168  JM TPO FB: TPO WBMA or ASBA	-90 (Lim. 7)				
S-AM-129	G80, F2, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-90 (Lim. 7)				
S-AM-130	G80, F2, L6, S12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min 0.625-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-90 (Lim. 7)				
S-AM-131	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	E3 (no AGF) or E3 C1	FASTENERS and PLT-R-3 or UltraFast Plates (Square) secured 24 per 4-ft x 8-ft board Pattern #2	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft <sup>2</sup> or TP WBMA (two-sided application only)	-90 (Lim. 7)				
S-AM-132	G33, P, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA, LVOC MA, ASBA or 1168 JM TPO FB: 2-Part UIA-C(S)	-90 (Lim. 7)				

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		As	semblies with	Adhered Memb	ranes over Insi	ulated Steel Deck (No	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-133	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 18 per 4-ft x 8-ft board Pattern #1	JM TPO SA	Self-adhered	-97.5 (Lim. 7)
S-AM-134	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 18 per 4-ft x 8-ft board Pattern #1	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only), or ASBA	-97.5 (Lim. 7)
S-AM-135	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO	MBA applied at 0.83 gal/100ft <sup>2</sup> to both membrane and substrate or TPO WBMA	-105 (Lim. 7)
S-AM-136	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	Fasteners & Plates secured 1 fastener per 1.33ft <sup>2</sup>	JM TPO SA	Self-adhered	-105 (Lim. 7)
S-AM-137	G80, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA, or ASBA	-105 (Lim. 7)
S-AM-138	G80, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only), or ASBA	-112.5 (Lim. 7)
S-AM-139	G80, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO SA	Self-adhered	-112.5 (Lim. 7)
S-AM-140	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft <sup>2</sup> for one-sided and two-sided application), MBA, or LVOC MA	-112.5 (Lim. 7)
S-AM-141	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3, E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	ASBA or MBA	-112.5 (Lim. 7)

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		As	semblies with	Adhered Membi	anes over Insi	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-142	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 20 per 4-ft x 8-ft board or 18 per 4-ft x 8-ft board Pattern #2	JM TPO SA	Self-adhered	-112.5 (Lim. 7)
S-AM-143	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	StormX	OMG Fasteners & Plates secured 20 per 4-ft x 8-ft board or 18 per 4-ft x 8-ft board Pattern #2	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft <sup>2</sup> , TPO WBMA (two-sided application only), or ASBA	-112.5 (Lim. 7)
S-AM-144	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft <sup>2</sup> or TP WBMA (two-sided application only)	-120 (Lim. 7)
S-AM-145	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO HFB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)
S-AM-146	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	Fasteners & Plates at a rate of 1 fastener per 1ft <sup>2</sup>	JM TPO	MBA or ASBA	-120 (Lim. 7)
S-AM-147	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft <sup>2</sup> for one-sided and two-sided application), MBA, or LVOC MA	-120 (Lim. 7)
S-AM-148	G80, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch E3 or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	ProtectoR HD	OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 4-inch o.c.	JM TPO	TPO WBMA, MBA, LVOC MA, or ASBA	-120 (Lim. 7)
S-AM-149	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	ASBA or MBA	-127.5 (Lim. 7)
S-AM-150	G80, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1ft <sup>2</sup>	JM TPO FB	2-Part UIA-C(S)	-135 (Lim. 7)

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		As	semblies with	Adhered Membi	anes over Inst	ulated Steel Deck (No	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-151	G80, F2, L6, S24	Min. 0.5-inch DEXcell FA secured with top layer; JM Vapor Barrier SA self- adhered	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	Fasteners & Plates secured 1 fastener per 1.0ft <sup>2</sup>	JM TPO FB	RSUA applied 4-inch o.c.	-142.5 (Lim. 7)
S-AM-152	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO or JM TPO FB	TPO WBMA (two-sided application only for JM TPO)	-150 (Lim. 7)
S-AM-153	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	Fasteners & Plates or UltraFast Fasteners & Trufast Plates secured 1 fastener per 1.00ft <sup>2</sup>	JM TPO SA	Self-adhered	-150 (Lim. 7)

		М	echanically Faste	ened Assemblie	s over <i>Steel Deck</i> (New, Ex	kisting, or <i>Rec</i>	over)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-1	G33, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates; Fastener rows max. 114-inch o.c.	-30 (Lim. 7; Non- HVHZ)
S-M-2	G33, F, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7; Non- HVHZ)
S-M-3	G80, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
S-M-4	G33, F, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
S-M-5	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)

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		М	echanically Fast	ened Assemblies	s over Steel Deck (New, Ex	xisting, or Rec	over)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-6	G33, P, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-30 (Lim. 7; Non- HVHZ)
S-M-7	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-30 (Lim. 7; Non- HVHZ)
S-M-8	G33, P, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Fastener rows max. 66-inch o.c.	(-45 Lim. 7)
S-M-9	G80, F2W, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates; Fastener rows max. 90-inch o.c.	-45 (Lim. 7)
S-M-10	G80, F1, L6, S18	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 12-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-11	G80, F1, L6, S18	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-12	22 GA Type N; G80, H1, L12, HS24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 8-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-45 (Lim. 7)
S-M-13	G80, F1, L6, S18	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-14	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-15	22 GA Type N; G80, H1, L12, HS24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 8-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)

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		М	echanically Faste	ened Assemblies	s over Steel Deck (New, E	xisting, or Rec	over)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-16	G80, F1, L6, S18	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-17	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-18	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-60 (Lim. 7)
S-M-19	G33, P, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-60 (Lim. 7)
S-M-20	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with Trufast Seam Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-21	G80, P, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
S-M-22	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
S-M-23	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
S-M-24	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO or JM TPO FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)
S-M-25	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 66-inch o.c.	(-105 Lim. 7)

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			Induction Welded	d Assemblies o	over Steel Deck (New, Existing, or	Recover)		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-1	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with All Purpose Fasteners and JM TPO RhinoPlates at a rate of 6 per 4-ft x 8-ft board Pattern #2	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-37.5 (Lim. 7; Non- HVHZ)
S-W-2	22 GA Type N; G80, H1, L12, HS24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 6 per 4-ft x 8-ft board Type N; Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	JM TPO	Induction welded to Weld plates	-37.5 (Lim. 7; Non- HVHZ)
S-W-3	G33, P, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft <sup>2</sup> )	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-4	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> fastened 12-inch o.c.; Fastener rows max. 72-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-5	G33, F1, L6, S30	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 at a rate of 1 fastener per 4.0-ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-6	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 24" o.c. in rows 24-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-7	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-8	G80, F1, L6, S36	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7)
S-W-9	G33	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 5.33ft <sup>2</sup> ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-45 (Lim. 7; Non- HVHZ)
S-W-10	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 6 per 4-ft x 8-ft board Pattern #2 (1 fastener per 5.33-ft²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-52.5 (Lim. 7)

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			Induction Welder	d Assemblies o	over Steel Deck (New, Existing, or	Recover)		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-11	G33, F1, L6, S12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 4.0ft <sup>2</sup> ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-52.5 (Lim. 7)
S-W-12	22 GA Type N; G80, H1, L12, HS24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 8 per 4-ft x 8-ft board Type N; Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	JM TPO	Induction welded to Weld plates	-52.5 (Lim. 7)
S-W-13	G33, P, L6, S36	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced in a 2-ft x 2-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-60 (Lim. 7)
S-W-14	G33, F1, L6, S12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 6-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-60 (Lim. 7)
S-W-15	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #2 (1 fastener per 4.0-ft²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-67.5 (Lim. 7)
S-W-16	G33, F2, L6, S18	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-67.5 (Lim. 7)
S-W-17	G33, P, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft <sup>2</sup> )	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-75 (Lim. 7)
S-W-18	G33, F1, L6, S30	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 at a rate of 1 fastener per 3.2-ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-75 (Lim. 7)
S-W-19	G33, F2, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-82.5 (Lim. 7)
S-W-20	G33, P, L6, S36	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced in a 1.5-ft x 2-ft staggered grid	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-82.5 (Lim. 7)

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			Induction Welded	d Assemblies o	ver Steel Deck (New, Existing, or	Recover)		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-21	G33, F1W, L6, S12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 2.0ft <sup>2</sup> ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-82.5 (Lim. 7)
S-W-22	G80, F2, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
S-W-23	G33, F2W, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>RhinoPlates</i> at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft <sup>2</sup> )	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
S-W-24	G33, H1, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with RhinoPlates at a rate of 12 per 4-ft x 8-ft board Pattern #1 (1 fastener per 2.67-ft²); Board length perpendicular to deck flutes with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
S-W-25	G33, F1, L5, S30	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 6-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
S-W-26	G80, F1, L6, S12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 6-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-90 (Lim. 7)
S-W-27	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>ISOWELD-#15</i> spaced 18-inch o.c. in rows 18-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
S-W-28	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 6-inch o.c. in rows 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-97.5 (Lim. 7)
S-W-29	G80, F1W, L6, S12	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Trufast IW Plates attached 1 fastener per 2.0ft <sup>2</sup> ; Boards placed perpendicular to deck ribs; End joints offset 12-inches between board rows	JM TPO (Min. 60 mil)	Induction welded to Weld plates	-105 (Lim. 7)

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		Assemi	blies with Adhered	d Membranes over I	nsulated Wood Deck (Ne	ew, Existing, o	r Recover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-1	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and UltraFast Plates (Square) secured at a rate of 12 per 4-ft x 8-ft board Pattern #1	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-30 (Lim. 7; Non- HVHZ)
W-AM-2	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and <i>UltraFast Plates</i> ( <i>Square</i> ) secured at a rate of 12 per 4-ft x 8-ft board Pattern #1	JM TPO SA	Self-adhered	-30 (Lim. 7; Non- HVHZ)
W-AM-3	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener and PLT-R-3 secured at a rate of 11 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-30 (Lim. 7; Non- HVHZ)
W-AM-4	T15/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener or FASTENERS and PLT-R-3 secured at a rate of 11 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-30 (Lim. 7; Non- HVHZ)
W-AM-5	T7/160, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener and PLT-R-3 secured at a rate of 11 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-30 (Lim. 7; Non- HVHZ)
W-AM-6	T15/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener or FASTNERS and PLT-R-3 secured at a rate of 11 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-30 (Lim. 7; Non- HVHZ)
W-AM-7	T7/160, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR	Fasteners & Plates at a rate of 1 fastener per 2-ft <sup>2</sup>	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
W-AM-8	T7/16O, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR	Fasteners & Plates at a rate of 1 fastener per 2-ft <sup>2</sup>	JM TPO (Min. 60 mil) or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft <sup>2</sup> , LVOC MA or ASBA  JM TPO FB: RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)

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		Asseml	blies with Adhered	Membranes over I	nsulated Wood Deck (Ne	ew, Existing, o	or Recover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-9	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Fasteners & Plates secured at a rate of 1 per 2.13ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-37.5 (Lim. 7; Non- HVHZ)
W-AM-10	T7/160, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Fasteners & Plates secured at a rate of 1 per 2.13ft <sup>2</sup>	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
W-AM-11	T15/32P, L24	-	-	ProtectoR HD	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
W-AM-12	T15/32P, L24	-	-	ProtectoR HD	RSUA applied 12-inch o.c.	JM TPO	MBA, LVOC MA, TPO WBMA or ASBA	-37.5 (Lim. 7; Non- HVHZ)
W-AM-13	T15/32P, L24	-	-	ProtectoR HD	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-14	19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	DF, TF or UF secured 1 fastener per 4ft <sup>2</sup>	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA  JM TPO FB: 2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-15	19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	<i>DF, TF</i> or <i>UF</i> secured 1 fastener per 4ft <sup>2</sup>	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
W-AM-16	T7/16O, L24	-	-	ProtectoR HD	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-45 (Lim. 7; Non- HVHZ)
W-AM-17	T7/160, L24	-	-	ProtectoR HD	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
W-AM-18	T7/16O, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and <i>UltraFast Plates</i> ( <i>Square</i> )secured at a rate of 15 per 4-ft x 8-ft board	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-45 (Lim. 7; Non- HVHZ)

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		Assem	blies with Adhered	d Membranes over I	nsulated Wood Deck (Ne	ew, Existing, o	r Recover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-19	T7/160, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and <i>UltraFast Plates</i> ( <i>Square</i> ) secured at a rate of 15 per 4-ft x 8-ft board	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
W-AM-20	19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch E3 (no AGF) or E3 C1	DF or TF secured 12 per 4-ft x 8-ft board Pattern #1	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
W-AM-21	19/32P, L24	Optional INSULATION and/or Vapor Barrier	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	DF or TF secured 12 per 4-ft x 8-ft board Pattern #1	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
W-AM-22	T15/32P, L24, N6	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener or FASTENERS and PLT-R-3 secured at a rate of 18 per 4-ft x 8-ft board Pattern #3	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S), TPO WBMA or ASBA	-45 (Lim. 7)
W-AM-23	T15/32P, L24, N6	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	Trufast VERSA-FAST fastener or FASTENERS and PLT-R-3 secured at a rate of 18 per 4-ft x 8-ft board Pattern #3	JM TPO SA	Self-adhered	-45 (Lim. 7)
W-AM-24	T19/32P, L24, N6	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	FASTENERS (no UltraFast Fastener) with UltraFast Plates (Square) secured at a rate of 18 per 4-ft x 8-ft board Pattern #1	JM TPO or JM TPO FB	JM TPO: MBA, TPO WBMA, LVOC MA, or ASBA JM TPO FB: 2-Part UIA-C(S)	-60 (Lim. 7)
W-AM-25	T19/32P, L24, N6	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	FASTENERS (no UltraFast Fastener) with UltraFast Plates (Square) secured at a rate of 18 per 4-ft x 8-ft board Pattern #1	JM TPO SA	Self-adhered	-60 (Lim. 7)

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			Mechanica	lly Fastened Asse	emblies over	Wood Deck (N	ew or Existing)		
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-M-1	T19/32P, L24	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 4-inch o.c. with JM APB Plates and High Load Fasteners; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
W-M-2	T7/16O, L24	As required	Min. 0.5-inch	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with VERSA-FAST at a rate of 4 Fasteners/Plate; Fastener rows max. 138-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
W-M-3	T19/32P, L24, N6	As required	Min. 0.5-inch	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with VERSA-FAST at a rate of 3 Fasteners/Plate; Fastener rows max. 138-inch o.c.	-52.5 (Lim. 7)
W-M-4	T19/32P, L24, N6	As required	Min. 0.25- inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)

			nduct	ion Welded Assen	nblies over Woo	d Deck (New or Existing)			
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-W-1	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	JM All Purpose Fasteners (min. 1-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 12-inch o.c. through sheathing into wood structural supports in row max. 8-ft o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7; Non- HVHZ)
W-W-2	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Loose laid	ProtectoR	JM All Purpose Fasteners (min. 1-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 48-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7; Non- HVHZ)

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			nduct	ion Welded Assen	nblies over Woo	d Deck (New or Existing)			
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-W-3	T15/32P, L24	As required	Min. 0.5-inch INSULATION	Loose laid	OPTIONAL Cover Board	Trufast VERSA-FAST or FASTENERS and JM TPO Rhino Plates secured at a rate of 1 fastener per 4ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7; Non- HVHZ)
W-W-4	T19/32P, L24	As required	Min. 0.5-inch	Loose laid	OPTIONAL Cover Board	IW secured at a rate of 1 fastener per 4ft <sup>2</sup>	JM TPO (Min. 60 mil)	Induction welded to weld plates	-37.5 (Lim. 7; Non- HVHZ)
W-W-5	T7/16O or T15/32P, L24	As required	Min. 1-inch <i>E3</i> or <i>E3 C1</i>	Loose laid	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.5-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 48-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7; Non- HVHZ)
W-W-6	T7/16O or T15/32P, L24	As required	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.75-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 18-inch o.c. through sheathing into wood structural supports in row max. 4-ft o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-45 (Lim. 7; Non- HVHZ)
W-W-7	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.5-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-52.5 (Lim. 7)

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			nduct	ion Welded Assen	nblies over Woo	d Deck (New or Existing)			
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-W-8	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.5-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 9-inch o.c. through sheathing into wood structural supports in rows max. 48" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-60 (Lim. 7)
W-W-9	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.5-inch embedment into wood supports) and JM TPO Rhino Plates, Trufast TPO IW Plates, or isoweld FI-P-6.8-TPO plates secured max. 6-inch o.c. through sheathing into wood structural supports in rows max. 48" o.c.	JM TPO (Min. 60 mil)	Induction welded to weld plates	-112.5 (Lim. 7)

### **END OF REPORT**

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