

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

EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer: JOHNS MANVILLE CORPORATION

Issued February 24, 2020

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

Manufacturing Plants: Scottsboro, AL

Pawtucket, RI Lancaster, SC

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing

Subcategory: Single Ply Roof System

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 PVC-50 mil	ASTM D 4434	Nominal 50-mil thick polyvinyl chloride with DuPont TM Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement
JM PVC-60 mil	ASTM D 4434	Nominal 60-mil thick polyvinyl chloride with DuPont TM Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement
JM PVC-80 mil	ASTM D 4434	Nominal 80-mil thick polyvinyl chloride with DuPont TM Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement
JM PVC Fleece Backed-50 mil	ASTM D 4434	Nominal 50-mil thick polyvinyl chloride with DuPont ^{IM} Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
JM PVC Fleece Backed-60 mil	ASTM D 4434	Nominal 60-mil thick polyvinyl chloride with DuPont [™] Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
JM PVC Fleece Backed-80 mil	ASTM D 4434	Nominal 80-mil thick polyvinyl chloride with DuPont TM Elvaloy KEE single-ply roof membrane with polyester scrim reinforcement and polyester fleece backing
JM PVC SD Plus-50 mil	ASTM D 4434	Nominal 50-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement
JM PVC SD Plus-60 mil	ASTM D 4434	Nominal 60-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement
JM PVC SD Plus-80 mil	ASTM D 4434	Nominal 80-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement
JM TPO-45	ASTM D 6878 TAS 131	Nominal 45-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
JM TPO-60	ASTM D 6878 TAS 131	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement
JM TPO-80	ASTM D 6878 TAS 131	Nominal 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement

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Products	Specification	Description
JM TPO FB 115	ASTM D 6878 TAS 131	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 131	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 131	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 131	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 131	Nominal 60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester scrim reinforcement and a self-adhesive backing

REFERENCES

Entity Atlantic & Caribbean Roof Consulting (TST4671)	Report No. ACRC 14-026	<u>Standard</u> TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-027	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-028	TAS 114(D) (1995)
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This evaluation report is provided for State of Florida		<u> </u>



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PRI Construction Materials Technologies (TST5878)	JMC-201-02-01A	FM 4474 (2011); TAS 114(J) (1995)
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PRI Construction Materials Technologies (TST5878)	JMC-306-02-01	FM 4474(B) (2011); TAS 114(D) (1995)
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Tra Condition Materials Toolinologies (1010070)	01010 040 02 01	UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-343-02-01	ASTM D 413 (1998(2017)); TAS 117(B)
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PRI Construction Materials Technologies (TST5878)	JMC-353-02-01	FM 4474(D) (2011); TAS 114(J) (1995);
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PRI Construction Materials Technologies (TST5878)	JMC-353-02-02	TAS 114(D) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-354-02-01	FM 4474(D) (2011); TAS 114(J) (1995);
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PRI Construction Materials Technologies (TST5878)	JMC-360-02-01	FM 4474(D) (2011); TAS 114(J) (1995);
1 11 Constituction Materials (Confologies (1015076)	31VIO 300 02 01	UL 1897 (2012)
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1 11 Construction Materials Technologies (1313070)	307 10000	UL 1897 (2012)
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PRI Construction Materials Technologies (TST5878)	507T0009 507T0031	FM 4474(C) (2011) FM 4474(C) (2011)
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FIXI Construction Materials Technologies (1313076)	307 10030	UL 1897 (2012)
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Report No.
JM-SC11320.03.16
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SFS-SC10010.02.16R1

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LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation.
- 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 shall be designed by others to meet the minimum design loads established for components and cladding.
- 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. 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. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. In the HVHZ, calculations shall be conducted in compliance with RAS 117 and/or RAS 137. Outside the HVHZ, commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
- 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. 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.
- 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.



COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 6th Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.



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 (6 pages)
- 2) APPENDIX B Nomenclature (4 pages)
- 3) APPENDIX C Approved Assemblies for JM TPO Single-Ply Membranes (51 pages)
- 4) APPENDIX D Approved Assemblies for JM PVC Single-Ply Membranes (38 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 Plate (Round)	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, SeparatoR CGF, DuraBoard, DuraFoam, Fesco, and Fesco Foam
	JM UltraFast Plate (Square)	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 PVC RhinoPlate	Min. 3-inch diameter for PVC membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with bareback membrane
	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 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.
	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 FI-P-6.8-PVC	Min. 3-inch diameter for PVC 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 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

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Component	Product	Installation Detail	
	Trufast Deep Well Batten Bar	Galvalume steel membrane batten with recessed holes	
Fasteners, Battens & Plates (Cont'd)	Trufast Straight Line Batten Bar	Galvalume steel membrane batten for use with Twin-Loc Nail without integrated plate	
	Trufast Twin Loc-Nail	Min. 1.4-inch shank; Base sheet fastener with and without integrated 2.7-inch diameter plate.	
	JM MBR Bonding Adhesive	Fully adhered at a rate of 1.5-2.0 gal/100 ft ²	
	JM One-Step Foamable Adhesive	5	
	ICP Adhesives CR-20	Ribbon adhered in 3/4 to 1-inch wide beads	
	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 ²	
	EPS	Min. 0.5-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	
	JM ENRGY 3		
	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	
	JM Fesco Foam	Min. 1.5-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM Invinsa Roof Board		
	JM Invinsa Foam Roof Board	1/4-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
Insulation/Cover	JM Invinsa FR Roof Board	4 11 1 4 11	
Boards	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	
	JM SECUROCK Glass-Mat Roof Board		
	JM SECUROCK Gypsum-Fiber Roof Board	Min. 1/4-inch thick	
	JM SeparatoR		
	JM SeparatoR CGF	1/2-inch thick; Min. 25 psi; Adhered boards shall be a	
	JM SeparatoR FR	maximum 4 ft x 4 ft	
	National Gypsum DEXcell Cement Roof	Min. 7/16-inch thick; Adhered boards shall be a maximum	
	Board	4 ft x 4 ft	
	National Gypsum DEXcell Glass Mat Roof Board		
	National Gypsum DEXcell FA Glass Mat Roof Board	Min. 1/4-inch thick	
PVC Membrane	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft ² ; For use only with JM PVC Fleece Backed membranes	
Adhesives	JM PVC Membrane Adhesive (Low VOC)	Fully adhered at rate of 50-90 ft²/gal (1.1-2.0 gal/100ft²); Applied simultaneously to underside of membrane and substrate	

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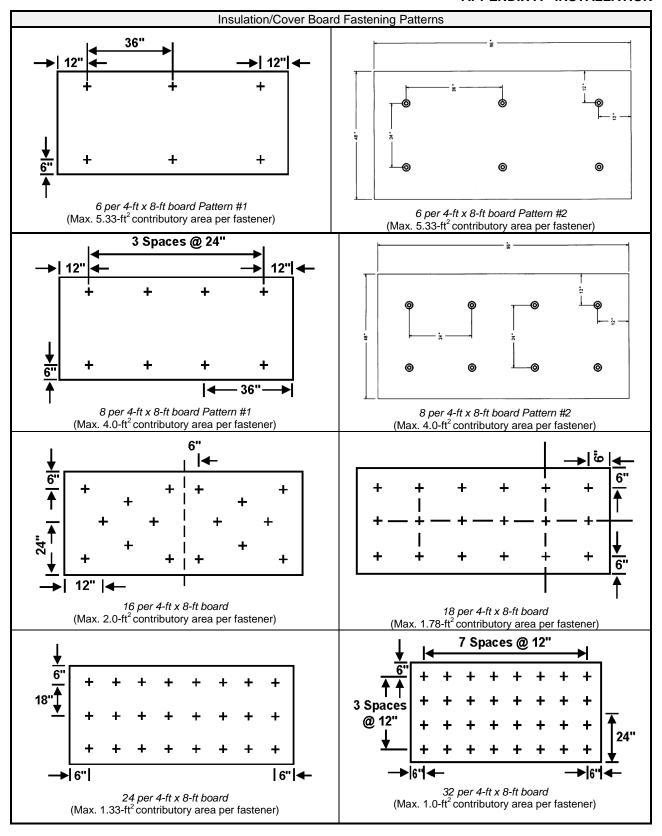
Component	Product	Installation Detail	
	JM PVC Membrane Adhesive (Water Based)	Fully adhered at a rate of 90-130 ft²/gal(0.77-1.1 gal/100ft²); Two-side application required for bareback TPO; Applied only to substrate when used with fleeceback TPO	
PVC Membrane Adhesives (Cont'd)	JM PVC Water Based Membrane Adhesive	Bareback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft ² ; Fleeceback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft ²	
	JM Roofing System Urethane Adhesive	Ribbon adhered in 1/2 to 3/4-inch wide beads	
	JM MBR Bonding Adhesive	Fully adhered at a rate of 1.5-2.0 gal/100 ft ²	
	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	
	JM All Season Sprayable Bonding Adhesive	Applied at a rate of 1,000ft ² /canister	
	JM Roofing System Urethane Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads	
	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	
TPO Membrane 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	
	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	
	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 ² or one-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft ² ; Fleeceback TPO shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft ²	
	JM Two Part Urethane Insulation Adhesive Canister	Applied in spatter pattern at a rate of 0.32 gal/100ft ² or 1/2-inch wide beads	
SA Primer	JM SA Primer Low VOC	Applied at rate of 0.5 gal/sq.	
	JM DynaBase HW	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered to primed concrete deck	
Vapor Barriers	JM DynaBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold <i>approved</i> adhesives	
vapor Barrioro	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	
	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	
base officers	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	
TPO Single-Ply	JM TPO-45		
	JM TPO-60	Min 2-inch wide eide lane with min 1.5 inch wide heet	
	JM TPO-80	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld for adhered systems; In-lap fastened systems shall	
	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	
		- OF THE WOOD TRUCKE FOR MECHANICALLY ATTACHED CYCTEMS	
	JM TPO FB 175	of the wood trusses for mechanically attached systems	

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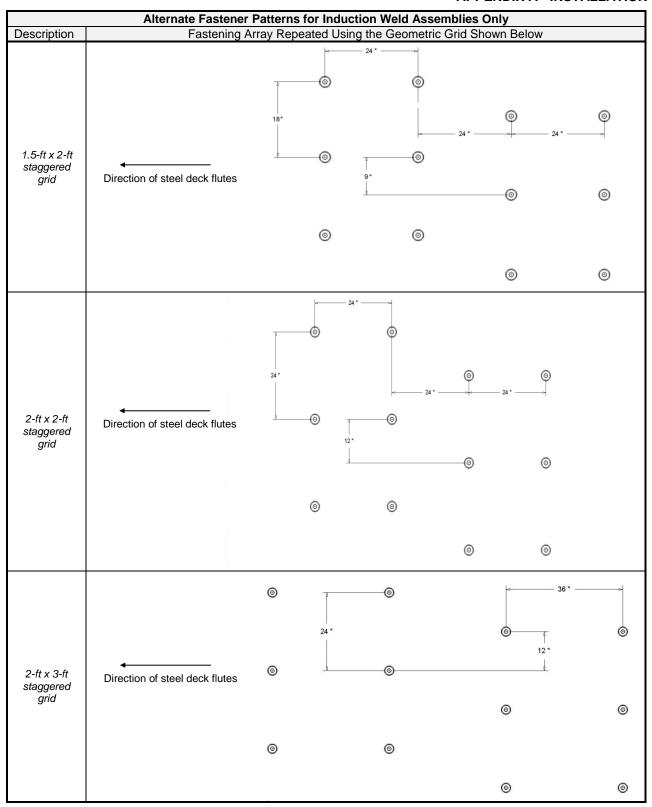


Component	Product	Installation Detail	
	JM PVC-50 mil		
	JM PVC-60 mil		
	JM PVC-80 mil	Min. 2-inch wide side-laps with min. 1.5-inch wide heat	
DVC Cinale Div	JM PVC Fleece Backed-50 mil	weld for adhered systems; In-lap fastened systems shall	
PVC Single-Ply Membranes	JM PVC Fleece Backed-60 mil	have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the	
Wombranes	JM PVC Fleece Backed-80 mil	direction of the steel deck ribs and parallel to the direction	
	JM PVC SD Plus-50 mil	of the wood trusses for mechanically attached systems	
	JM PVC SD Plus-60 mil		
	JM PVC SD Plus-80 mil		
Cellular Lightweight	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.	
Concrete	Mearlcrete		
	Elastizell	Slurry coat min. 1/8-inch thick; 1" thick EPS board (1 lbs/ft³); Min. 2-inch thick top coat;	
	Concrecel		
	Cellular Lightweight Concrete		









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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 ²		
AP Fasteners & Plates	All Purpose Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast 3" Round Metal Plate or UltraFast Square Recessed Metal Plate		
AP Fasteners & Plates (Square)	All Purpose Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast Square Recessed Metal 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 -JM Invinsa Roof Board -JM Invinsa FR Roof Board -JM ProtectorR HD -JM ProtectorR HD FR -JM SECUROCK Glass-Mat Roof Board -JM SECUROCK Gypsum-Fiber Roof Board -National Gypsum DEXcell FA Glass Mat Roof Board -National Gypsum DEXcell 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	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: 15 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	
2001. 2010 (00.11.0)		SDL<#>	SDL-#14-HW5/16 secured <#>-inch o.c. along the panel side laps	
		HS<#>	Hilti S0SLC 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	
		HVHZ: 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	
	N<#	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	
DensDeck	Min. 1/4-inch Georgia-Pacific DensDeck			
DensDeck Prime	Min. 1/4-inch G	eorgia-Pacific I	DensDeck Prime	
DEXcell CB	Min. 1/4-inch N	ational Gypsun	n DEXcell Cement Roof Board	
DEXcell FA	Min. 1/4-inch National Gypsum DEXcell FA Glass Mat Roof Board			
E3	JM ENRGY 3, 3	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 CGF			
Extra HL Fasteners & Plates	JM Extra High Load Fasteners (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM Extra High Load Plates			
HL Fasteners & Plates	JM High Load Fasteners (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM High Load Plates			

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Name	Definition
INSULATION	One of more layers in any combination of the following products: -ENRGY 3 -ENRGY 3 AGF -ENRGY 3 CGF -ENRGY 3 FR -Fesco Board -Fesco Foam -Invinsa Roof Board -Invinsa FR Roof Board -Protector R HD -Protector R HD -Protector R HD FR -Retro-Fit Board -Retro-Fit Board -SECUROCK Glass-Mat Roof Board -SECUROCK Glypsum-Fiber Roof Board -SECUROCK Gypsum-Fiber Roof Board -EPS (flute fill only)
INVINSA	JM Invinsa or JM Invinsa FR Roof Board
ISOWELD -#15	For TPO membranes: isoweld FI-P-6.8-TPO plates and DEKFAST DF-#15-PH3 Fasteners For PVC membranes: isoweld FI-P-6.8-PVC plates and DEKFAST DF-#15-PH3 Fasteners
ISOWELD-#12	For TPO membranes: isoweld FI-P-6.8-TPO plates and DEKFAST DF-#12-PH3 Fasteners For PVC membranes: isoweld FI-P-6.8-PVC plates and DEKFAST DF-#12-PH3 Fasteners
JM PVC	One ply of any one of the following products: JM PVC-50 mil, JM PVC-60 mil, or JM PVC-80 mil
JM PVC FB	One ply of any one of the following products: JM PVC Fleece Backed-50 mil, JM PVC Fleece Backed-60 mil or JM PVC Fleece Backed-80 mil
JM PVC FB/DynaFast	One ply of JM PVC Fleece Backed-50 mil or JM PVC Fleece Backed-60 mil fully adhered in ASTM D 312 Type asphalt over DynaFast 180 S. DynaFast 180 S fastened to deck as described in <i>Approved Assembly</i>
JM PVC SD Plus	One ply of any one of the following products: JM PVC SD Plus-50 mil, JM PVC SD Plus-60 mil, or JM PVC SD Plus-80 mil
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 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
OSFA	JM One-Step Foamable Adhesive

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Name	Definition
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
PVC MA (LowVOC)	JM PVC Membrane Adhesive (Low VOC)
PVC MA (WB)	JM PVC Membrane Adhesive (Water Based)
PVC WBMA	JM PVC Water Based Membrane Adhesive
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
RSUA	JM Roofing System Urethane Adhesive
SECUROCK	Min. 1/4-inch JM SECUROCK Gypsum-Fiber Roof Board
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
UIA	JM Urethane Insulation Adhesive
UltraFast Fasteners & Plates	JM UltraFast Fasteners (Steel Deck and Wood Deck) or JM All Purpose Fasteners (Concrete Deck) and JM UltraFast Plates (Round or Square)
UltraFast Fasteners & Plates (Square)	JM UltraFast Fasteners (Steel Deck and Wood Deck) or JM All Purpose Fasteners (Concrete Deck) and JM UltraFast Plates (Square)
UltraFast Plates	JM UltraFast Plates (Round or Square)
Vapor Barrier	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 VOCDynaGrip 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
VB SAR	One ply of JM Vapor Barrier SAR applied to deck primed with JM SA Primer Low VOC up to a maximum MDP as shown below. The MDP of the roof assembly shall be limited to the lesser of rating of the Approved Assembly and the MDP below. 1. Board layers adhered to Vapor Barrier SAR in OSFA applied at 12" o.c.; MDP = -135psf 2. Board layers adhered to Vapor Barrier SAR in 2-Part UIA applied at 12" o.c.; MDP = -82.5psf 3. Not for use with RSUA

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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)
<u>C-M-#</u>	Mechanically Fastened Assemblies over Concrete Deck
<u>C-W-#</u>	Induction Welded Assemblies over Concrete Deck
<u>CW-A-#</u>	Adhered Assemblies over Cementitious Wood Fiber Decks (New or Existing)
<u>G-A-#</u>	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)
<u>LS-W-#</u>	Induction Welded Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)
R-A-#	Adhered Recover Assemblies
<u>R-M-#</u>	Mechanically Fastened Recover Assemblies
R-W-#	Induction Welded Recover Assemblies
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)
<u>S-W-#</u>	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 JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	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-2	OPTIONAL JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	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-3	OPTIONAL VB SAR	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. OPTIONAL JM Invinsa or ProtectoR HD in 2-Part UIA applied 12-inch o.c. MBA applied at 0.83 gal/100ft² to both membrane and substrate, TPO WBMA, ASBA or LVOC MA (not with JM Invinsa or ProtectoR HD)		-105 (Lim. 9)		
C-A-4	OPTIONAL VB SAR	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-5	OPTIONAL VB SAR	INVINSA in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim. 9)
C-A-6	OPTIONAL VB SAR	Min. 1.5-inch E3 in OSFA, RSUA or 2-Part UI applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim 9)
C-A-7	-	RetroPlus in ASTM D 312, Type IV asphalt	-	JM TPO	MBA	-105 (Lim. 9)
C-A-8	OPTIONAL VB SAR	Min. 1.5-inch E3 in OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	-	JM TPO FB	RSUA or 2-Part UIA applied 4-inch o.c.; or 2-Part UIA-C(S)	-112.5 (Lim 9)
C-A-9	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3 CGF, or ENRGY 3 FR in 2-Part UIA applied 12-inch o.c.	-	JM TPO	TPO WBMA or ASBA	-142.5 (Lim. 9)
C-A-10	OPTIONAL VB SAR	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.	JM TPO	ASBA	-157.5 (Lim. 9)

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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-11	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3 applied in 2-Part UIA at 12-inch o.c.	-	JM TPO	TPO WBMA or ASBA	-165 (Lim. 9)
C-A-12	OPTIONAL <i>VB SAR</i>	Min. 1.5-inch E3 in 2-Part UIA applied 12-inch o.c.	-	JM TPO	LVOC MA	-172.5 (Lim. 9)
C-A-13	OPTIONAL VB SAR	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, or 1168	-180 (Lim. 9)
C-A-14	OPTIONAL VB SAR	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-15	OPTIONAL VB SAR	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.	ЈМ ТРО	TPO WBMA or ASBA	-187.5 (Lim. 9)
C-A-16	OPTIONAL <i>VB SAR</i>	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF or ENRGY 3 FR in 2-Part UIA applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-187.5 (Lim. 9)
C-A-17	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF or ENRGY 3 FR in 2-Part UIA applied 12-inch o.c.	-	JM TPO	TPO WBMA (Two-sided application only) or ASBA	-195 (Lim. 9)
C-A-18	OPTIONAL VB SAR	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-19	OPTIONAL VB SAR	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-20	OPTIONAL VB SAR	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-21	OPTIONAL VB SAR	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	-225 (Lim. 9)

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		Adhered Asse	emblies over Concret	e Deck (New o	or Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-22	OPTIONAL VB SAR	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)
C-A-23	DynaBase HW	SECUROCK in RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-24	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-25	OPTIONAL VB SAR	SECUROCK in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-26	OPTIONAL VB SAR	INVINSA in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO	TPO WBMA (Two-sided application only) or ASBA	-255 (Lim. 9)
C-A-27	OPTIONAL VB SAR	INVINSA in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-277.5 (Lim. 9)
C-A-28	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-29	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-30	OPTIONAL VB SAR	Min. 1.5-inch E3 in 2-Part UIA applied 12-inch o.c.	-	JM TPO	MBA	-322.5 (Lim. 9)
C-A-31	OPTIONAL VB SAR	DEXcell CB in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO FB	TPO WBMA	-322.5 (Lim. 9)
C-A-32	OPTIONAL VB SAR	Min. 1-inch ENRGY 3 in 2-Part UIA applied 12-inch o.c.	DensDeck Prime in 2-Part UIA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-337.5 (Lim. 9)
C-A-33	OPTIONAL VB SAR	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-34	OPTIONAL VB SAR	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO	LVOC MA	-360 (Lim. 9)

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		Adhered Asse	emblies over Concre	te Deck (New or	Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-35	OPTIONAL VB SAR	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-36	OPTIONAL <i>VB</i> S <i>AR</i>	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-390 (Lim. 9)
C-A-37	OPTIONAL VB SAR	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM TPO	ASBA	-390 (Lim. 9)
C-A-38	OPTIONAL VB SAR	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-39	OPTIONAL VB SAR	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-40	-	-	-	JM TPO FB	2-Part UIA-C(S)	-457.5 (Lim. 9)
C-A-41	OPTIONAL VB SAR	SECUROCK in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	ЈМ ТРО	TPO WBMA	-465 (Lim. 9)
C-A-42	OPTIONAL VB SAR	INVINSA in 2-Part UIA, OSFA or RSUA applied 12-inch o.c.	-	JM TPO	MBA applied 0.83 gal/100ft ²	-465 (Lim. 9)
C-A-43	OPTIONAL VB SAR	SECUROCK in 2-Part UIA, OSFA, or RSUA applied 12-inch o.c.	-	JM TPO	MBA applied 0.83 gal/100ft ²	-495 (Lim. 9)
C-A-44	-	-	-	JM TPO FB	2-Part UIA-C(B) applied 6-inch o.c.	-495 (Lim. 9)
C-A-45	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-502.5 (Lim. 9)

	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, 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-1	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)			

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Decl	k (New, Existii	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-2	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 4.0ft ²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² , LVOC MA, or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
C-AM-3	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 2.0ft ²	-	-	JM TPO	<i>MBA</i> applied at 0.83 gal/100ft ² , <i>TPO WBMA</i> , <i>ASBA</i> or <i>LVOC MA</i>	-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 ²	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	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	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	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	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 ² ; 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	AP Fasteners & Plates (Square) secured 1 fastener per 4ft ²	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	AP Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM TPO (Min. 60 mil) or JM TPO FB	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft ² ; 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 l	nsulated Concrete Deck	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-9	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 4.0ft ²	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 ² , LVOC MA, or ASBA JM TPO FB: TPO WBMA, 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 ²	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO FB	TPO WBMA or RSUA 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	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	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 or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-13	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-14	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	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 ² , LVOC MA, or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-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 ²	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, 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-16	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 ²	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-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 ²	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-18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO	MBA applied 0.83 gal/100ft ² to both membrane and substrate, TPO WBMA or ASBA	-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	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO FB	2-Part UIA-C(S)	-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	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-21	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO	MBA applied 0.83 gal/100ft ² to both membrane and substrate or TPO WBMA	-52.5 (Lim. 7)
C-AM-22	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-23	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	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-24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	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 I	nsulated Concrete Dec	k (New, Existii	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-25	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	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-26	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners & Plates secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-27	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-28	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft ² ; LVOC MA, or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
C-AM-29	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 ²	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, LVOC MA, or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-30	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 ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-31	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	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 or 2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-32	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners & Plates secured 1 fastener per 1.78ft ²	JM TPO	LVOC MA	-60 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existi	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-34	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-35	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch E3	AP Fasteners & Plates secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
C-AM-36	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-37	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	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-38	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates secured 1 fastener per 1ft ²	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)
C-AM-39	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 1/2-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-40	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft Board	Min. 1/2-inch SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
C-AM-41	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate, TPO WBMA or ASBA	-67.5 (Lim. 7)
C-AM-42	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
C-AM-43	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3	AP Fasteners & Plates s secured 1 fastener per 2ft ²	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft ² , TPO WBMA (two-sided application only) or ASBA	-67.5 (Lim. 7)
C-AM-44	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3	AP Fasteners & Plates secured 1 fastener per 2ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
C-AM-45	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	TPO WBMA or ASBA	-67.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existii	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-46	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) at a rate of 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-75 (Lim. 7)
C-AM-47	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) at a rate of 1 fastener per 1.33ft ²	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied 0.83 gal/100ft ² , LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-75 (Lim. 7)
C-AM-48	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.6ft ²	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft ² , TPO WBMA (two-sided application only) or ASBA	-75 (Lim. 7)
C-AM-49	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.6ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
C-AM-50	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA, or ASBA	-75 (Lim. 7)
C-AM-51	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-75 (Lim. 7)
C-AM-52	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA, or ASBA	-75 (Lim. 7)
C-AM-53	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
C-AM-54	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	TPO WBMA or ASBA	-82.5 (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 SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO FB	2-Part UIA-C(S)	-82.5 (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 SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)

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		Assemblie	s with Adhered Me	mbranes over l	nsulated Concrete Deci	k (New, Existi	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-57	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO	MB, LVOC MA, or ASBA	-82.5 (Lim. 7)
C-AM-58	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-59	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
C-AM-60	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate or TPO WBMA	-105 (Lim. 7)
C-AM-61	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-105 (Lim. 7)
C-AM-62	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft², TPO WBMA, or ASBA	-105 (Lim. 7)
C-AM-63	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA, ASBA, or 1168	-112.5 (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 DensDeck Prime	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO SA	Self-adhered	-112.5 (Lim. 7)
C-AM-65	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft ² or TPO WBMA (Two-sided application only)	-120 (Lim. 7)
C-AM-66	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)
C-AM-67	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 ²	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 ² for one-sided and two-sided application), MBA, or LVOC MA	-120 (Lim. 7)
C-AM-68	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	ASBA	-127.5 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, 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-69	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO or JM TPO FB	TPO WBMA (Two-sided application only for JM TPO)	-150 (Lim. 7)				
C-AM-70	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	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	JM TPO	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-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)
C-M-4	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-5	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-6	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-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 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (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-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.	-52.5 (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	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-10	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-11	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-12	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)
C-M-13	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-14	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	Attached with JM All Purpose Fasteners and JM TPO 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 JM TPO RhinoPlates	-45 (Lim. 7)
C-W-2	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	JM TPO RhinoPlates fastened 12-inch o.c. with JM All Purpose Fasteners; Fastener rows max. 72-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)
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		Indu	ction Welded Asse	emblies over Concrete Deck (Ne	ew, Existing, or I	Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
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 ²	JM TPO (Min. 60 mil)	Induction welded to Isoweld 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 Isoweld 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 Isoweld 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 Isoweld plates	-45 (Lim. 7)
C-W-7	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO 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 JM TPO RhinoPlates	-52.5 (Lim. 7)
C-W-8	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 Isoweld plates	-60 (Lim. 7)
C-W-9	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO 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 JM TPO RhinoPlates	-67.5 (Lim. 7)
C-W-10	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO RhinoPlates at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-75 (Lim. 7)
C-W-11	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 ²	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-75 (Lim. 7)

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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-12	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 Isoweld plates	-82.5 (Lim. 7)
C-W-13	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO RhinoPlates in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)
C-W-14	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO 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 JM TPO RhinoPlates	-90 (Lim. 7)
C-W-15	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM All Purpose Fasteners and JM TPO RhinoPlates at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft²); Board installed with 6-inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)
C-W-16	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 Isoweld plates	-97.5 (Lim. 7)
C-W-17	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 Isoweld plates	-97.5 (Lim. 7)

		Adher	ed Assemblies ov	er Cementitious W	ood Fiber Decl	k (New or Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-1	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 or ASBA	-122.5 (Lim. 9)
CW-A-2	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 or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-135 (Lim. 9)

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		Adher	ed Assemblies ov	er Cementitious W	ood Fiber Decl	k (New or Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-3	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, or 1168 JM TPO FB: RSUA applied 12-inch o.c.	-140 (Lim. 9)
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	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 1168 JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-7	SECUROCK	RSUA, OSFA, or 2-Part UIA applied 12-inch o.c.	-	-	JM TPO SA	Self-adhered	-157.5 (Lim. 9)
CW-A-8	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-157.5 (Lim. 9)
CW-A-9	JM Invinsa	RSUA applied 12-inch o.c.	-	-	JM TPO FB	TPO WBMA	-160 (Lim. 9)
CW-A-10	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-11	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)

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		As	semblies with All	Layers Adhered or	ver Gypsum De	eck (New or Existing)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-1	Min. 1.5-inch E3 (no FR)	2-Part UIA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)
G-A-2	Min. 1.5-inch E3 (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 ² to both membrane and substrate or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)
G-A-3	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 ² to both membrane and substrate or ASBA	-75 (Lim. 9)
G-A-4	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-5	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 or JM TPO FB	JM TPO: TPO WBMA, LVOC MA, ASBA or 1168 JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-75 (Lim. 9)
G-A-6	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-7	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)
G-A-8	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa	OSFA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² to both membrane and substrate JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)
G-A-9	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 ² to both membrane and substrate or ASBA	-77.5 (Lim. 9)
G-A-10	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)
G-A-11	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA 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, or 1168 JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-77.5 (Lim. 9)

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		As	semblies with All	Layers Adhered o	ver Gypsum De	eck (New or Existing)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-12	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-13	-	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-85 (Lim. 9)
G-A-14	Min. 1.5-inch E3 (no FR)	2-Part UIA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-90 (Lim. 9)
G-A-15	JM Invinsa	OSFA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² 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-16	Min. 1.5-inch E3	OSFA applied 12-inch o.c.	-	-	JM TPO FB	TPO WBMA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVZH)
G-A-17	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM TPO	MBA applied at 0.55 gal/100ft ²	-150 (Lim. 9; Non- HVZH)
G-A-18	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- HVZH)
G-A-19	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- HVZH)
G-A-20	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- HVZH)
G-A-21	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- HVZH)

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Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)							
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 HFB	ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVZH)
G-A-23	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- HVZH)
G-A-24	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA 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, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVZH)
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 HFB	ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVZH)
G-A-26	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA 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 ² JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVZH)
G-A-27	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA 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- HVZH)
G-A-28	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA 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 or 2-Part UIA-C(S)	-150 (Lim. 9; Non- HVZH)
G-A-29	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- HVZH)
G-A-30	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- HVZH)
G-A-31	-	-	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-155 (Lim. 9)

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		As	semblies with All	Layers Adhered o	ver Gypsum De	ck (New or Existing)	
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-32	Min. 1.5-inch <i>E</i> 3	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-33	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-34	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-35	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-36	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-37	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-38	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)
G-A-39	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, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-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 HFB	ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)

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		As	semblies with All	Layers Adhered o	ver Gypsum De	ck (New or Existing)	
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.	INVINSA	RSUA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² JM TPO FB: TPO WBMA	-210 (Lim. 9; Non- HVHZ)
G-A-42	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-43	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-44	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-45	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-46	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.55 gal/100ft ² JM TPO FB: 2-Part UIA-C(S)	-210 (Lim. 9; Non- HVZH)

	Assemblies with Adhered Membranes over Insulated Gypsum 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	-	-	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	xisting)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-1	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	<i>RSUA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² , TPO WBMA (two- sided application only), LVOC MA or ASBA JM TPO FB: TPO WBMA or	-77.5 (Lim. 9)
					2-Part UIA-C(S)	
LC-A-2	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LC-A-3	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, or 1168 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	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-5	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2- <i>Part UIA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² , TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-80 (Lim. 9)
LC-A-6	Min. 300 psi LWIC	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LC-A-7	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, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-80 (Lim. 9)

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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-8	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-9	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA or DynaBase HW over ASTM D 41 primed concrete	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-112.5 (Lim. 9)
LC-A-10	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)
LC-A-11	Min. 310 psi Elastizell with Zell- Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² , TPO WBMA, LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-130 (Lim. 9)
LC-A-12	Min. 310 psi Elastizell with Zell- Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c	JM TPO SA	Self-adhered	-130 (Lim. 9)
LC-A-13	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, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-130 (Lim. 9)
LC-A-14	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-15	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-147.5 (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-16	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-17	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-172.5 (Lim. 9)
LC-A-18	Min. 375 psi Concrecel	-	-	JM TPO	LVOC MA	-257.5 (Lim. 9)
LC-A-19	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-20	Min. 213.5 Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-290 (Lim. 9)

	Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet	Base Sheet Attachement	Membrane	Membrane Attachment	MDP (psf)			
LC-AM-1	G33, P, L6, S18	Min. 200 psi Elastizell with Zell- Crete Fibers	PermaPly 28	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)			

	Mechanically Fastened Lightweight Concrete Assemblies over Concrete 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	G40, P, L6, S18	Min. 200 psi Elastizell with Zell- Crete Fibers	-	-	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)			

	Ind	luction Welded Lightweight Cond	crete Assemblies o	ver Concrete Deck (New o	r 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	G40, P, L6, S18	Min. 200 psi Elastizell with Zell- Crete Fibers	-	-	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates and JM All Purpose Fasteners secured 6-inch o.c. in rows spaced 96-inch o.c.	-60 (Lim. 7)

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		Adhered Light	weight Concrete As	ssemblies 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)
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	RSUA 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)	-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	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, or 1168 JM TPO FB: TPO WBMA 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	2-Part UIA applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83 gal/100ft ² , 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	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-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-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, or 1168 JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-80 (Lim. 9)
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-Part UIA 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, or 1168 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 ²	-180 (Lim. 9; HVHZ only)
LS-A-16	G33	Min. 700psi cellular lightweight concrete (<i>MCRF</i> = 152lbf with JM Lightweight Concrete (LWC) CR Base Fasteners)	-	-	JM TPO FB	2-Part UIA-C(S)	-180 (Lim. 9; HVHZ only)

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	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-17	G33	Min. 150 psi <i>LWIC</i>	-	-	JM TPO	<i>MBA</i> applied at 0.83 gal/100ft ²	-265 (Lim. 9; HVHZ only)				

		Lightweight Concrete A	ssemblies with A	dhered Membranes over St	eel Deck (New or	Existing)	
System No.	Deck Detail	LWIC	Base Sheet	Base Sheet Attachement	Membrane	Membrane Attachment	MDP (psf)
LS-AM-1	G33, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	PermaPly 28	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 FB	ASTM D 312 hot asphalt	-45 (Lim. 7)

		Mechanically Fastened Light	htweight Concrete	Assemblies over Steel De	ck (New, Existing	, or <i>Recover</i>)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-M-1	G40, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fastener & 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	G40, P, L6, S18	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates and High Load Fasteners secured 6-inch o.c. in rows spaced 96-inch o.c.	-60 (Lim. 7)					

			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)

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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-2	Concrete Deck	OPTIONAL INSULATION under Min. 1.5-inch E3	AP Fasteners & Plates (Square) secured 1 fastener per 2ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-45 (Lim. 7)
R-A-3	Concrete Deck	OPTIONAL INSULATION under Min. 1.5-inch E3	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
R-A-4	BUR over Concrete Deck	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-217.5 (Lim. 9)

			Mech	anically Fastened <i>I</i>	Recover Assemblies	i		
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	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill 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 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-4	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-5	Existing metal roof having Min. 14 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill 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 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	JM TPO	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	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	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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			Mech	anically Fastened <i>I</i>	Recover Assemblies			
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.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill 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-15	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)

			Inc	luction 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.	INSULATION	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured to structural supports 18-inch o.c.; Fastener rows max. 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)
R-W-2	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 120-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)
R-W-3	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
R-W-4	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 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 JM TPO RhinoPlates	-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 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 JM TPO RhinoPlates	-52.5 (Lim. 7)

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			Inc	luction 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-6	Wood Deck (T15/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates 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 JM TPO RhinoPlates	-60 (Lim. 7)
R-W-7	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured to structural supports 12-inch o.c.; Fastener rows max. 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-67.5 (Lim. 7)
R-W-8	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	Attached with High Load Fasteners and JM TPO RhinoPlates at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-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 E3 or Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-90 (Lim. 7)
R-W-10	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-97.5 (Lim. 7)
R-W-11	Wood Deck (T15/32, L24, N6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates 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 JM TPO RhinoPlates	-112.5 (Lim. 7)
R-W-12	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	Min. 1-inch INSULATION over fill or Cover Board	JM Purlin Fasteners and JM TPO RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 60-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-120 (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-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	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2.67ft ²	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	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2.67ft ²	JM TPO or JM TPO FB	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft ² ; LVOC MA or ASBA JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S) 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	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM TPO	MBA, or LVOC MA	-37.5 (Lim. 7; Non- HVHZ)
S-AM-4	G33	ProtectoR attached with UltraFast Fasteners & Plates (Square) at 8 per 4-ft x 8-ft board Pattern #2; 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	OSFA, RSUA, 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) 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, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2.67ft²	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 Ins	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-6	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2.67ft²	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 ² ; LVOC MA or ASBA JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S) or TPO WBMA	-45 (Lim. 7)
S-AM-7	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-8	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM TPO (Min. 60 mil) or <i>JM TPO FB</i>	JM TPO: TPO WBMA; MBA applied at 0.83 gal/100ft ² ; LVOC MA or ASBA JM TPO FB: RSUA applied 12-inch o.c., 2-Part UIA-C(S) or TPO WBMA	-45 (Lim. 9)
S-AM-9	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates (Square) secured 1 fastener per 5.3ft ²	JM TPO	MBA, TPO WBMA, LVOC MA, or ASBA	-45 (Lim. 7; Non- HVHZ)
S-AM-10	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates (Square) secured 1 fastener pr 5.3ft ²	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-11	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² or ASBA JM TPO FB: TPO WBMA	-45 (Lim. 7; Non- HVHZ)
S-AM-12	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-13	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	RSUA applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-14	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	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 Membi	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-15	G33	OPTIONAL JM Vapor Barrier SA or SAR	-	-	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	RSUA applied 12-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-45 (Lim. 7; Non- HVHZ)
S-AM-16	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4.0ft²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² , LVOC MA , or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-45 (Lim. 9)
S-AM-17	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4.0ft ²	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-18	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 2.0ft ²	-	-	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate, TPO WBMA, ASBA or LVOC MA	-45 (Lim. 9)
S-AM-19	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 2.0ft ²	-	-	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-20	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 2.0ft ²	RetroPlus	RSUA or 2-Part UIA applied 12-inch o.c	JM TPO	MBA	-45 (Lim. 9)
S-AM-21	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 4.0ft ²	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 ² , LVOC MA or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-45 (Lim. 7)
S-AM-22	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 4.0ft ²	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 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-23	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² , LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-24	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-25	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft ²	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 ² , LVOC MA, or ASBA JM TPO FB: TPO WBMA, RSUA applied 12-inch o.c., or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-26	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft2	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-27	G40, P, L6, S20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.45ft²	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)
S-AM-28	G40, P, L6, S20	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast 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-29	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate or TPO WBMA or ASBA	-52.5 (Lim. 7)

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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-30	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate, TPO WBMA or ASBA	-52.5 (Lim. 7)
S-AM-31	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-32	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO HFB	Base Ply: Torch Adhered Membrane: ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-33	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-34	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft ²	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-35	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft²	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-36	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners & Plates secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-37	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-38	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft²	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft ² , LVOC MA applied at 0.83 gal/100ft ² or ASBA JM TPO FB: TPO WBMA	-52.5 (Lim. 7)

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		As	semblies with	Adhered Memb	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-39	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.78ft²	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 ² , LVOC MA, or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-40	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.78ft²	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-41	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² , LVOC MA , or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-42	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft²	JM TPO or JM TPO FB	JM TPO: MBA applied at 0.83-1.10 gal/100ft ² , LVOC MA , or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-43	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
S-AM-44	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners & Plates secured 1 fastener per 1.78ft ²	JM TPO	LVOC MA or MBA applied at 0.55 gal/100ft ²	-60 (Lim. 7)
S-AM-45	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft²	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-46	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners & Plates secured 1 fastener per 1.78ft²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)

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		As	semblies with	Adhered Memb	ranes over Insi	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-47	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-48	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	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-49	G33, F2W, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast 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)
S-AM-50	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	UltraFast 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-51	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	UltraFast 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 or 2-Part UIA-C(S)	-67.5 (Lim. 7)
S-AM-52	L6, G80, F1, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch ENRGY 3	UltraFast 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-53	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate, TPO WBMA or ASBA	-67.5 (Lim. 7)
S-AM-54	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
S-AM-55	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	TPO WBMA or ASBA	-67.5 (Lim. 7)

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		As	semblies with	Adhered Membi	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-56	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3	UltraFast Fasteners & Plates secured 1 fastener per 2ft ²	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft ² , TPO WBMA (two-sided application only) or ASBA	-67.5 (Lim. 7)
S-AM-57	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENERGY 3	UltraFast Fasteners & Plates secured 1 fastener per 2ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-67.5 (Lim. 7)
S-AM-58	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-75 (Lim. 7)
S-AM-59	G33, P, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 1.33ft²	JM TPO or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft ² , LVOC MA or ASBA JM TPO FB: TPO WBMA or 2-Part UIA-C(S)	-75 (Lim. 7)
S-AM-60	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.6ft ²	JM TPO	MBA, LVOC MA applied at 1.1 gal/100ft ² , TPO WBMA (two-sided application only) or ASBA	-75 (Lim. 7)
S-AM-61	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.6ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-62	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA or ASBA	-75 (Lim. 7)
S-AM-63	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-75 (Lim. 7)
S-AM-64	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA or ASBA	-75 (Lim. 7)
S-AM-65	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-66	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)

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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-67	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-68	G80, F1W, L6, S24	Min. 0.5-inch DEXcell FA; UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft²; 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-69	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO FB	RSUA applied 4-inch o.c.	-82.5 (Lim. 7)
S-AM-70	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft ² or TPO WBMA (two- sided application only)	-82.5 (Lim. 7)
S-AM-71	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-82.5 (Lim. 7)
S-AM-72	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA, or ASBA	-82.5 (Lim. 7)
S-AM-73	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft², TPO WBMA, or ASBA	-82.5 (Lim. 7)
S-AM-74	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	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-75	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) 1 fastener per 1.33ft²	JM TPO	MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
S-AM-76	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) 1 fastener per 1.33ft²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-77	G33, H1, L6, SH24	OPTIONAL Vapor Barrier	Min. 1-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) 1 fastener per 1.33ft ²	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-78	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plate) 1 fastener per 1.6ft ²	ProtectoR HD	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO	MBA, LVOC MA, or ASBA	-82.5 (Lim. 7)
S-AM-79	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plate) 1 fastener per 1.6ft ²	ProtectoR HD	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-80	G33, F1, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plate) 1 fastener per 1.6ft²	ProtectoR HD	RSUA or 2-Part UIA applied 6-inch o.c.	JM TPO FB	2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-81	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	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 ² for one-sided and two-sided application), MBA, ASBA, or LVOC MA	-82.5 (Lim. 7)
S-AM-82	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft² for one-sided and two-sided application), MBA, or LVOC MA	-82.5 (Lim. 7)
S-AM-83	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	ASBA	-82.5 (Lim. 7)
S-AM-84	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft²	JM TPO	MBA applied at 0.83 gal/100ft ² to both membrane and substrate or TPO WBMA	-105 (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-85	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-105 (Lim. 7)
S-AM-86	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA, or ASBA	-105 (Lim. 7)
S-AM-87	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO	MBA, LVOC MA applied at 1.67 gal/100ft ² , TPO WBMA (two-sided application only), or ASBA	-112.5 (Lim. 7)
S-AM-88	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO SA	Self-adhered	-112.5 (Lim. 7)
S-AM-89	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	TPO WBMA (rate 0.6-0.8 gal/100-ft ² for one-sided and two-sided application), MBA, or LVOC MA	-112.5 (Lim. 7)
S-AM-90	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF)	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	ASBA	-112.5 (Lim. 7)
S-AM-91	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO	MBA or LVOC MA applied at 1.1 gal/100ft ² or TP WBMA (two-sided application only)	-120 (Lim. 7)
S-AM-92	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)
S-AM-93	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5- inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 1ft ²	JM TPO	MBA or ASBA	-120 (Lim. 7)
S-AM-94	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	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 ² for one-sided and two-sided application), MBA, or LVOC MA	-120 (Lim. 7)
S-AM-95	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM TPO	ASBA	-127.5 (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-96	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO FB	RSUA applied 4-inch o.c.	-142.5 (Lim. 7)
S-AM-97	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	TPO WBMA (two-sided application only for JM TPO)	-150 (Lim. 7)
S-AM-98	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-150 (Lim. 7)

		М	echanically Faste	ened Assemblies	s over Steel Deck (New, Ex	cisting, or Rec	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 Faste	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, 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-8	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-9	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-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 6-inch o.c. with 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 Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-12	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-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	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-14	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-15	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)

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		М	echanically Faste	ened Assemblie	s over Steel Deck (New, Ex	isting, 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	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-17	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-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 Extra HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-67.5 (Lim. 7)
S-M-19	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-20	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-21	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)

	Induction Welded Assemblies 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, P, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-45 (Lim. 7)				
S-W-2	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with JM TPO RhinoPlates fastened 12-inch o.c. with High Load Fasteners; Fastener rows max. 72-inch o.c.	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)				
S-W-3	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 ²	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-45 (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-4	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" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
S-W-5	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
S-W-6	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 Isoweld plates	-45 (Lim. 7)
S-W-7	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-52.5 (Lim. 7)
S-W-8	G40, 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 Isoweld plates	-60 (Lim. 7)
S-W-9	G33, H1, L6, SH24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-67.5 (Lim. 7)
S-W-10	G33, F2, L6, S18	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-67.5 (Lim. 7)
S-W-11	G33, P, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO RhinoPlates at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-75 (Lim. 7)
S-W-12	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 ²	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-75 (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-13	G33, F2, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO RhinoPlates in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-82.5 (Lim. 7)
S-W-14	G40, 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 Isoweld plates	-82.5 (Lim. 7)
S-W-15	G80, F2, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO RhinoPlates in a 24-inch by 16-inch grid pattern	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)
S-W-16	G33, F2W, L6	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO 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 JM TPO RhinoPlates	-90 (Lim. 7)
S-W-17	G33, H1, L6, S24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM TPO RhinoPlates at a rate of 12 per 4-ft x 8-ft board (1 fastener per 2.67-ft ²); Board length perpendicular to deck flutes with 6- inch stagger from preceding course	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)
S-W-18	G40, F1, L5, S30	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-90 (Lim. 7)
S-W-19	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 18" o.c. in rows 18" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-97.5 (Lim. 7)
S-W-20	G80, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM TPO (Min. 60 mil)	Induction welded to Isoweld plates	-97.5 (Lim. 7)

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		Assemi	blies with Adhered	l Membranes over I	nsulated Wood Deck (Ne	w, 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	T7/160, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ²	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)
W-AM-2	T7/16O, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ²	JM TPO (Min. 60 mil) or JM TPO FB	JM TPO: TPO WBMA, MBA applied at 0.83 gal/100ft ² , 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)
W-AM-3	T7/160, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and JM TPO Rhino Plates secured at a rate of 1 per 2.13ft ²	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-4	T7/160, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	ProtectoR	JM All Purpose Fasteners and JM TPO Rhino Plates secured at a rate of 1 per 2.13ft ²	JM TPO SA	Self-adhered	-37.5 (Lim. 7; Non- HVHZ)

			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	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)

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			Induct	ion Welded Asser	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	77/16O or 715/32P, 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 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 JM TPO RhinoPlates	-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 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 JM TPO RhinoPlates	-37.5 (Lim. 7; Non- HVHZ)
W-W-3	77/160 or 715/32P, 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 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 JM TPO RhinoPlates	-45 (Lim. 7; Non- HVHZ)
W-W-4	77/160 or 715/32P, 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 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 JM TPO RhinoPlates	-45 (Lim. 7; Non- HVHZ)
W-W-5	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 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 JM TPO RhinoPlates	-52.5 (Lim. 7)

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			Induct	ion Welded Asser	mblies 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-6	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 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 JM TPO RhinoPlates	-60 (Lim. 7)
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 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 JM TPO RhinoPlates	-112.5 (Lim. 7)

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APPROVED ASSEMBLIES FOR JM PVC 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-#, G-M-#, LC-M-#, LS-M-#, S-M-#, 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)
<u>C-AM-#</u>	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)
<u>C-M-#</u>	Mechanically Fastened Assemblies over Concrete Deck
<u>C-W-#</u>	Induction Welded Assemblies over Concrete Deck
<u>CW-A-#</u>	Adhered Assemblies over CWF Deck (New or Existing)
<u>CW-M-#</u>	Mechanically Fastened Assemblies over CWF Deck (New, Existing, or Recover)
<u>G-A-#</u>	Adhered Assemblies over Poured Gypsum Deck (New or Existing)
<u>G-M-#</u>	Mechanically Fastened Assemblies over Poured Gypsum Deck (New, Existing or Recover)
LC-A-#	Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing)
LC-M-#	Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)
LS-A-#	Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)
<u>LS-M-#</u>	Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)
<u>R-A-#</u>	Adhered Recover Assemblies
<u>R-M-#</u>	Mechanically Fastened Recover Assemblies
<u>R-W-#</u>	Induction Welded Recover Assemblies
<u>S-AM-#</u>	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)
<u>S-M-#</u>	Mechanically Fastened Assemblies over Steel Deck (New, Existing or Recover)
<u>S-W-#</u>	Induction Welded Assemblies over Steel Deck
W-AM-#	Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)
<u>W-M-#</u>	Mechanically Fastened Assemblies over Wood Deck (New or Existing)
<u>W-W-#</u>	Induction Welded Assemblies over Wood Deck (New or Existing)

		Adhered Assen	nblies over Concrete Deck	(New or Existing)		
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-1	OPTIONAL JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	Min. 1.5-inch <i>E3</i> in <i>RSUA</i> or <i>2-Part UIA</i> applied12-inch o.c.	OPTIONAL SECUROCK, RetroPlus, or JM Invinsa in RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)

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		Adhered Assem	blies over Concrete Deck	(New or Existing)		
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-2	OPTIONAL DynaBase HW or JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	Min. 1.5-inch <i>E3</i> in <i>RSUA</i> applied 12-inch o.c.	SECUROCK in OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. followed by OPTIONAL DynaBase HW	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)
C-A-3	OPTIONAL VB SAR	Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA</i> , 2- <i>Part UIA</i> , <i>OSFA</i> , or <i>RSUA</i> applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in UIA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	PVC MA (WB)	-105 (Lim. 9)
C-A-4	OPTIONAL VB SAR	Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA</i> , 2- <i>Part UIA</i> , <i>OSFA</i> or <i>RSUA</i> applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in UIA or 2-Part UIA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) or PVC MA (WB) applied at 0.67 gal/100ft ²	-105 (Lim. 9)
C-A-5	OPTIONAL VB SAR	Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA</i> , 2- <i>Part UIA</i> , <i>OSFA</i> or <i>RSUA</i> applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in UIA or 2-Part UIA applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC)	-105 (Lim. 9)
C-A-6	OPTIONAL VB SAR	Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c.	JM Invinsa or ProtectoR HD adhered with <i>UIA</i> at 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC MA (WB) applied at 0.67 gal/100ft ²	-112.5 (Lim. 9)
C-A-7	OPTIONAL VB SAR	Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c.	JM Invinsa or ProtectoR HD adhered with <i>UIA</i> at 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ²	-112.5 (Lim. 9)
C-A-8	OPTIONAL VB SAR	Min. 1.5-inch E3 (no FR) applied in RSUA, OSFA or 2-Part UIA applied 12-inch o.c.	-	JM PVC FB	RSUA or 2-Part UIA applied 4-inch o.c.	-112.5 (Lim 9)
C-A-9	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with OSFA or RSUA at 12-inch o.c.	JM PVC JM PVC SD Plus	PVC WBMA or PVC MA (LowVOC)	-127.5 (Lim. 9)
C-A-10	-	Min. 1.5-inch E3 (no FR), min. 1-inch Fesco, min. 1.5-inch Fesco Foam, or Retro-Fit in ASTM D 312 Type asphalt	-	JM PVC FB	ASTM D 312 Type IV Asphalt	-150 (Lim. 9)
C-A-11	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9)

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		Adhered Assem	nblies over Concrete Deck	(New or Existing)		
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-12	OPTIONAL VB SAR	Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	JM PVC JM PVC SD Plus	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9)
C-A-13	OPTIONAL VB SAR	Min. 1.5-inch <i>E3</i> (no FR) adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	ProtectoR HD adhered with RSUA at 12-inch o.c.	JM PVC JM PVC SD Plus	PVC WBMA or PVC MA (LowVOC)	-180 (Lim. 9)
C-A-14	OPTIONAL VB SAR	Min. 1.5-inch <i>E3</i> (no FR) adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	ProtectoR HD adhered with RSUA at 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9)
C-A-15	OPTIONAL DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch <i>E3</i> (no FR) in <i>RSUA</i> applied 12-inch o.c.	SECUROCK in RSUA applied 12-inch o.c.	JM PVC JM PVC SD Plus	PVC WBMA	-180 (Lim. 9)
C-A-16	OPTIONAL DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch <i>E3</i> (no FR) in <i>RSUA</i> applied 12-inch o.c.	SECUROCK in RSUA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9)
C-A-17	OPTIONAL VB SAR	Min. 1.5-inch E3 (no FR) in 2-Part UIA, OSFA or RSUA applied 12-inch o.c. or ASTM D 312 Type IV Asphalt	-	JM PVC	PVC MA (LowVOC)	-217.5 (Lim. 9)
C-A-18	OPTIONAL VB SAR	Min. 1.5-inch E3 (no FR) in 2-Part UIA, OSFA or RSUA applied 12-inch o.c. or ASTM D 312 Type IV Asphalt	-	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-217.5 (Lim. 9)
C-A-19	-	-	-	JM PVC FB	PVC MA (WB)	-217.5 (Lim. 9)
C-A-20	DynaBase HW	SECUROCK in RSUA applied 12-inch o.c.	DynaBase HW	JM PVC FB	RSUA applied 12-inch o.c.	-217.5 (Lim. 9)
C-A-21	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 PVC JM PVC SD Plus	PVC MA (LowVOC)	-292.5 (Lim. 9)
C-A-22	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 PVC FB	2-Part UIA-C(S)	-292.5 (Lim. 9)

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Adhered Assemblies over Concrete Deck (New or Existing)									
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)			
C-A-23	OPTIONAL VB SAR	DEXcell CB or DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM PVC JM PVC SD Plus	PVC MA (LowVOC)	-390 (Lim. 9)			
C-A-24	OPTIONAL VB SAR	DEXcell CB or DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM PVC FB	PVC MA (WB)	-390 (Lim. 9)			
C-A-25	OPTIONAL <i>VB SAR</i>	DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c.	-	JM PVC FB	2-Part UIA-C(S)	-390 (Lim. 9)			

	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, 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-1	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² or PVC MA (LowVOC)	-30 (Lim. 7; Non- HVHZ)		
C-AM-2	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-30 (Lim. 7; Non- HVHZ)		
C-AM-3	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC FB	RSUA applied 12-inch o.c. or 2-Part UIA- C(S)	-30 (Lim. 7; Non- HVHZ)		
C-AM-4	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² or PVC MA (LowVOC)	-45 (Lim. 9)		
C-AM-5	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-45 (Lim. 9)		
C-AM-6	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	AP Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC FB	RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-45 (Lim. 9)		
C-AM-7	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC or PVC SD Plus	PVC MA (WB) or PVC WBMA	-45 (Lim. 7)		

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	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, 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-8	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c., PVC MA (WB) or PVC WBMA	-45 (Lim. 7)		
C-AM-9	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-52.5 (Lim. 7)		
C-AM-10	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-52.5 (Lim. 7)		
C-AM-11	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-52.5 (Lim. 7)		
C-AM-12	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied 1-1.1 gal/100ft ²	-52.5 (Lim. 7)		
C-AM-13	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	PVC MA (WB)	-52.5 (Lim. 7)		
C-AM-14	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-52.5 (Lim. 7)		
C-AM-15	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners & Plates secured 1 fastener per 1.78ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)		
C-AM-16	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-60 (Lim. 7)		

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		Assemblies	with Adhered Me	mbranes over Insu	lated Concrete Deck (N	ew, Existing, or F	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-17	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC FB	JM PVC MA (WB) or 2-Part UIA-C(S)	-60 (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 1.78ft ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-60 (Lim. 7)
C-AM-19	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 ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-60 (Lim. 7)
C-AM-20	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 ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-21	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Simultaneously secured with top layer	SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-60 (Lim. 7)
C-AM-22	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	2-Part UIA-C(S)	-60 (Lim. 7)
C-AM-23	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates secured 1 fastener per 1ft ²	SECUROCK, RetroPlus, or JM Invinsa	RSUA or 2-Part UIA applied 6-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 7)
C-AM-24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates secured 1 fastener per 1ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 6-inch o.c.	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-67.5 (Lim. 7)
C-AM-25	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-67.5 (Lim. 7)

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		Assemblies	with Adhered Me	mbranes over Insu	lated Concrete Deck (N	ew, Existing, or F	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-26	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.6ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)
C-AM-27	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.6ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-75 (Lim. 7)
C-AM-28	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	AP Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)
C-AM-29	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates (Square) secured 1 fastener per 1.6ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)
C-AM-30	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1.0 gal/100ft ²	-105 (Lim. 7)
C-AM-31	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DEXcell FA	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-105 (Lim. 7)
C-AM-32	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-105 (Lim. 7)
C-AM-33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-112.5 (Lim. 7)
C-AM-34	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-112.5 (Lim. 7)
C-AM-35	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-120 (Lim. 7)
C-AM-36	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	AP Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-120 (Lim. 7)
C-AM-37	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i>	AP Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-120 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, 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-38	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 ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)			

		Mechani	cally 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	JM PVC	Attached in-lap 6-inch o.c. with Extra HL Fastener & Plates; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
C-M-2	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	-45 (Lim. 7)
C-M-3	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC or PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
C-M-4	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-45 (Lim. 7)
C-M-5	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 72-inch o.c.	-45 (Lim. 7)
C-M-6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c.	-52.5 (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 PVC FB/ DynaFast	HL Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	-52.5 (Lim. 9)
C-M-8	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	-60 (Lim. 7)
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		Mechani	cally 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-9	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-60 (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 PVC or JM PVC FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 4.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
C-M-11	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; 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 PVC	Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-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 PVC FB/ DynaFast	APB Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)
C-M-14	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	HL Fasteners & Plates spaced 12-inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)
C-M-15	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	-60 (Lim. 9)
C-M-16	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c.	-75 (Lim. 7)

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		Indu	ction Welded A	Assemblies over Concrete Deck (N	lew, Existing,	or Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-1	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 12" o.c. in rows max. 72" o.c.	-37.5 (Lim. 7; Non- HVHZ)
C-W-2	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
C-W-3	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
C-W-4	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
C-W-5	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 12" o.c. in rows max. 60" o.c.	-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 24" o.c. in rows 24" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
C-W-7	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
C-W-8	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with All Purpose Fasteners and JM PVC RhinoPlates in a 2-ft x 2-ft staggered grid pattern	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)
C-W-9	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-60 (Lim. 7)
C-W-10	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with All Purpose Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)

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		Indu	ction Welded A	Assemblies over <i>Concrete Deck</i> (N	lew, Existing,	or Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-11	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#14 or ISOWELD-#15 spaced 18" o.c. in rows 24" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-67.5 (Lim. 7)
C-W-12	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 6" o.c. in rows max. 72" o.c.	-82.5 (Lim. 7)
C-W-13	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-82.5 (Lim. 7)
C-W-14	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-82.5 (Lim. 7)
C-W-15	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 6" o.c. in rows max. 60" o.c.	-90 (Lim. 7)
C-W-16	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with All Purpose Fasteners and JM PVC RhinoPlates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft²)	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-90 (Lim. 7)
C-W-17	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-90 (Lim. 7)

			Adhered Assembl	ies over CWF Deck	(New or Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-1	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA or 2-Part UIA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft²,PVC MA (WB) applied at 0.67 gal/100ft², or PVC WBMA	-112.5 (Lim. 9)
CW-A-2	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA or 2-Part UIA applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-112.5 (Lim. 9)
CW-A-3	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA, OSFA, or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-140 (Lim. 9)
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			Adhered Assembl	ies over CWF Deck	(New or Existing		
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-4	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC MA (WB) applied at 0.67 gal/100ft ²	-157.5 (Lim. 9)
CW-A-5	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ²	-157.5 (Lim. 9)
CW-A-6	Min. 475 psi Celcore MF with HS Rheology Admixture installed	Poured-in-place	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-167.5 (Lim. 9)
CW-A-7	Min. 475 psi Celcore MF with HS Rheology Admixture installed	Poured-in-place	-	-	JM PVC FB	RSUA applied 4-inch o.c.	-197.5 (Lim. 9)

	Mechanically Fastened Assemblies over CWF Deck (New or Existing)										
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)				
CW-M-1	-	-	-	-	JM PVC FB/ DynaFast	1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps	-60 (Lim. 9)				

		Adhe	red Assemblies ove	er Poured Gypsum	Deck (New or Exist	ing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-1	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	-	-	JM PVC	PVC MA (LowVOC)	-60 (Lim. 9)
G-A-2	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-60 (Lim. 9)
G-A-3	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 PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² ,PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-60 (Lim. 9)
G-A-4	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 PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-60 (Lim. 9)
G-A-5	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	SECUROCK	RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-60 (Lim. 9)

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		Adhe	red Assemblies ov	er Poured Gypsum	Deck (New or Exist	ing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-6	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM PVC or JM PVC SD Plus	PVC MA (LowVOC); Applied 1.67 gal/100ft ² or PVC WBMA	-77.5 (Lim. 9)
G-A-7	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft², PVC MA (WB) applied at 0.67 gal/100ft², or PVC WBMA	-77.5 (Lim. 9)
G-A-8	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-77.5 (Lim. 9)
G-A-9	Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	JM Invinsa or ProtectoR HD	OSFA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-77.5 (Lim. 9)
G-A-10	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA or OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-77.5 (Lim. 9)
G-A-11	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	RSUA or OSFA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-77.5 (Lim. 9)
G-A-12	JM Invinsa	OSFA applied 12-inch o.c.	-	-	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² ,PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-92.5 (Lim. 9)
G-A-13	JM Invinsa	OSFA applied 12-inch o.c.	-	-	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-92.5 (Lim. 9)
G-A-14	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	JM Invinsa or ProtectoR HD	<i>UIA</i> applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² ,PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-112.5 (Lim. 9)
G-A-15	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	JM Invinsa or ProtectoR HD	<i>UIA</i> applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-112.5 (Lim. 9)
G-A-16	Min. 1.5-inch <i>E</i> 3	OSFA applied 12-inch o.c.	-	-	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-150 (Lim. 9; Non- HVZH)
G-A-17	Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	-	-	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-150 (Lim. 9; Non- HVZH)
G-A-18	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	ProtectoR	OSFA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-150 (Lim. 9; Non- HVZH)
G-A-19	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	ProtectoR	OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC WBMA or PVC MA (LowVOC)	-150 (Lim. 9; Non- HVZH)

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		Adhe	red Assemblies ove	er Poured Gypsum	Deck (New or Exist	ing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-20	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DensDeck Prime	OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-150 (Lim. 9; Non- HVZH)
G-A-21	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DensDeck Prime	OSFA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVZH)
G-A-22	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c. after DynaBase HW torched adhered	-150 (Lim. 9; Non- HVZH)
G-A-23	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-150 (Lim. 9; Non- HVZH)
G-A-24	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	SECUROCK	OSFA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S), ASTM D 312, Type IV Asphalt, or PVC WBMA	-150 (Lim. 9; Non- HVZH)
G-A-25	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell CB	OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-150 (Lim. 9; Non- HVZH)
G-A-26	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell CB	OSFA applied 12-inch o.c.	JM PVC FB	PVC MA (WB)	-150 (Lim. 9; Non- HVZH)
G-A-27	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell FA	OSFA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-150 (Lim. 9; Non- HVZH)
G-A-28	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12-inch o.c.	DEXcell FA	OSFA applied 12-inch o.c.	JM PVC FB	PVC MA (WB), 2-Part UIA-C(S), or ASTM D 312, Type IV Asphalt	-150 (Lim. 9; Non- HVZH)
G-A-29	Min. 1.5-inch <i>E</i> 3	RSUA applied 12-inch o.c.	-	-	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9; Non- HVHZ)

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		Adhe	red Assemblies ove	er Poured Gypsum	Deck (New or Exist	ing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-30	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	ProtectoR	RSUA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-180 (Lim. 9; Non- HVHZ)
G-A-31	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	ProtectoR	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC WBMA or PVC MA (LowVOC)	-180 (Lim. 9; Non- HVHZ)
G-A-32	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-210 (Lim. 9; Non- HVHZ)
G-A-33	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DensDeck Prime	RSUA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-34	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c. after DynaBase HW torched adhered	-210 (Lim. 9; Non- HVHZ)
G-A-35	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-210 (Lim. 9; Non- HVHZ)
G-A-36	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	SECUROCK	RSUA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-37	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell CB	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-210 (Lim. 9; Non- HVHZ)
G-A-38	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell CB	RSUA applied 12-inch o.c.	JM PVC FB	PVC MA (WB)	-210 (Lim. 9; Non- HVHZ)
G-A-39	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell FA	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-210 (Lim. 9; Non- HVHZ)

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		Adhe	red Assemblies ove	er Poured Gypsum	Deck (New or Exist	ing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-40	OPTIONAL Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	DEXcell FA	RSUA applied 12-inch o.c.	JM PVC FB	PVC MA (WB), 2-Part UIA-C(S), or ASTM D 312, Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)
G-A-41	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	-	-	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-210 (Lim. 9; Non- HVHZ)
G-A-42	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	-	-	JM PVC FB	ASTM D 312 Type IV Asphalt	-210 (Lim. 9; Non- HVHZ)

	Mechanically Attached Assemblies over Poured Gypsum Deck (New, Existing, or Recover)									
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)			
G-M-1	-	-	-	-	JM PVC FB/ DynaFast	Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps	-60 (Lim. 9)			

	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or Exist	ing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-1	Min. 250 psi Elastizell with Zell-Crete Fibers installed over DynaBase HW over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-75 (Lim. 9)
LC-A-2	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-77.5 (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	RSUA applied 12-inch o.c.	JM PVC FB	RSUA applied 4-inch o.c.	-77.5 (Lim. 9)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or Exist	ing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-4	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 in RSUA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC), PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-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 in RSUA applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-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 in RSUA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-77.5 (Lim. 9)
LC-A-7	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-80 (Lim. 9)
LC-A-8	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c.	JM PVC FB	2-Part UIA applied 4-inch o.c. or PVC WBMA	-80 (Lim. 9)
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 PVC	PVC MA (LowVOC) or PVC MA (WB) applied at 0.67 gal/100ft ²	-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- <i>Part UIA</i> applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC)	-80 (Lim. 9)
LC-A-11	Min. 250 psi Elastizell with Zell-Crete Fibers installed over DynaBase HW over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-85 (Lim. 9)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or Exist	ing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-12	Min. 330 psi <i>LWIC</i>	-	-	JM PVC FB	PVC MA (WB)	-90 (Lim. 9)
LC-A-13	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA or DynaBase HW over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-92.5 (Lim. 9)
LC-A-14	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA or DynaBase HW over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-102.5 (Lim. 9)
LC-A-15	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch E3 (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: <i>UIA</i> applied 6-inch o.c. or 2- <i>Part UIA</i> applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-112.5 (Lim. 9)
LC-A-16	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch E3 (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: <i>UIA</i> applied 6-inch o.c. or 2- <i>Part UIA</i> applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-112.5 (Lim. 9)
LC-A-17	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-117.5 (Lim. 9)
LC-A-18	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-130 (Lim. 9)
LC-A-19	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 PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-130 (Lim. 9)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete D	Deck (New or Exist	ing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
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:	2-Part UIA applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-130 (Lim. 9)
		SECUROCK			50//	-147.5
LC-A-21	Min. 375 psi Concrecel	-	-	JM PVC FB	RSUA applied 12-inch o.c.	(Lim. 9)
LC-A-22	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-167.5 (Lim. 9)
LC-A-23	Min. 375 psi Concrecel	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-172.5 (Lim. 9)
LC-A-24	Min. 550 psi Elastizell with Zell-Fibers	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-177.5 (Lim. 9)
LC-A-25	Min. 262 psi <i>LWIC</i>	SECUROCK	2-Part UIA applied 12-inch o.c	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ²	-210 (Lim. 9; Non- HVHZ)
LC-A-26	Min. 262 psi <i>LWIC</i>	SECUROCK	2-Part UIA applied 12-inch o.c	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch adhered Membrane: RSUA applied 12-inch o.c.	-210 (Lim. 9; Non- HVHZ)
LC-A-27	Min. 550 psi Elastizell with Zell-Fibers	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-225 (Lim. 9)
LC-A-28	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW	-	-	JM PVC FB	RSUA applied 4-inch o.c.	-257.5 (Lim. 9)
LC-A-29	Min. 383.5 psi Celcore MF with HS Rheology Admixture (No EPS Board) installed over DynaBase HW over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-262.5 (Lim. 9)
LC-A-30	Min. 250 Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-290 (Lim. 9)
LC-A-31	Min. 375 psi Concrecel	-	-	JM PVC FB	MBR Low VOC Membrane Adhesive	-342.5 (Lim. 9)
LC-A-32	Celcore MF with HS Rheology Admixture (min. 49 pcf wet cast density)	-	-	JM PVC FB	PVC MA (WB)	-367.5 (Lim. 9)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete D	eck (New or Exist	ing)	Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing)										
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)										
LC-A-33	Min. 370 psi Concrecel (No EPS Board)	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-375 (Lim. 9)										
LC-A-34	Min. 250 psi Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	JM PVC FB	RSUA applied 4-inch o.c.	-390 (Lim. 9)										
LC-A-35	Min. 383.5 psi Celcore MF with HS Rheology Admixture (no EPS board) installed over ASTM D 41 primed concrete	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-417.5 (Lim. 9)										
LC-A-36	Min. 370 psi Concrecel (No EPS board)	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-480 (Lim. 9)										
LC-A-37	Min. 383.5 psi Celcore MF with HS Rheology Admixture (No EPS Board)	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-502.5 (Lim. 9)										

	Mechanically Attached Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)									
System No.	LWIC Insulation/ Insulation/Cover Board Attachment		Insulation/Cover Board Attachment	Membrane Membrane Attachment		MDP (psf)				
LC-M-1	Min. 475 psi Celcore MF with HS Rheology	-	-	JM PVC FB/ DynaFast	1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps	-60 (Lim. 9)				

		Adhered Light	weight Concrete A	Assemblies over Steel Dec	k (New or Existing	g)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-1	G33, P, L5, S15	Min. 475 psi Celcore MF with HS Rheology	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-60 (Lim. 9)
LS-A-2	G80, P, L5, S15	Min. 383.5 psi Celcore MF with HS Rheology Admixture	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-75 (Lim. 9)
LS-A-3	G80, P, L5, S15	Min. 383.5 psi Celcore MF with HS Rheology Admixture	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-75 (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	RSUA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-77.5 (Lim. 9)
LS-A-5	G33	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	JM PVC FB	RSUA applied 4-inch o.c. or PVC WBMA	-77.5 (Lim. 9)

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		Adhered Ligh	tweight Concrete A	Assemblies over Steel Dec	k (New or Existing	g)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
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 in RSUA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC), PVC MA (WB) applied at 0.67 gal/100ft ² , or PVC WBMA	-77.5 (Lim. 9)
LS-A-7	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 in RSUA applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-77.5 (Lim. 9)
LS-A-8	G33	Min. 300 psi LWIC	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-80 (Lim. 9)
LS-A-9	G33	Min. 300 psi LWIC	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c.	JM PVC FB	2-Part UIA applied 4-inch o.c. or PVC WBMA	-80 (Lim. 9)
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-Part UIA applied 12-inch o.c.	JM PVC	PVC MA (LowVOC), PVC MA (WB) applied at 0.67 gal/100ft², or PVC WBMA	-80 (Lim. 9)
LS-A-11	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 PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-80 (Lim. 9)
LS-A-12	G80, P, L5, S12	Min. 370 psi Concrecel	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-97.5 (Lim. 9)
LS-A-13	G80, P, L5, S15	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-97.5 (Lim. 9)
LS-A-14	G80, P, L5, S15	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-97.5 (Lim. 9)
LS-A-15	G33	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA applied 12-inch o.c	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-130 (Lim. 9)

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	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-16	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 applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) or PVC WBMA	-130 (Lim. 9)					

	Mechanically Attached 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, L5, S15	Min. 475 psi Celcore MF with HS Rheology	-	-	JM PVC FB/ DynaFast	1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps	-60 (Lim. 9)				

			Adhered Recover Asse	mblies		
System No.	Deck Detail	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-A-1	BUR or Mod-Bit Roofing with mineral surfacing	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-45 (Lim. 9)
R-A-2	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates (Square) secured 1 fastener per 2ft ²	JM PVC FB	PVC MA (WB) or ASTM D 312 Type IV Asphalt	-45 (Lim. 7)
R-A-3	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM PVC or JM PVC SD Plus	JM PVC: PVC MA (LowVOC)	-52.5 (Lim. 7)
R-A-4	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners & Plates (Square) secured 1 fastener per 1.78ft ²	JM PVC FB	JM PVC FB: PVC MA (WB) or ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
R-A-5	BUR over Concrete Deck	Base Layer: Min. 1.5- inch <i>E3</i> (no FR) Top Layer: Optional JM Invinsa	Base Layer: 2 <i>-Part UIA</i> applied 12-inch o.c. Top Layer: 2 <i>-Part UIA</i> applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-105 (Lim. 9)

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			Adhered Recover Asse	mblies		
System No.	Deck Detail	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-A-6	BUR over Concrete Deck	Base Layer: Min. 1.5- inch E3 (no FR) Top Layer: Optional JM Invinsa	Base Layer: 2- <i>Part UIA</i> applied 12-inch o.c. Top Layer: 2- <i>Part UIA</i> applied 12-inch o.c.	JM PVC FB	PVC MA (WB) or ASTM D 312 Type IV Asphalt	-105 (Lim. 9)
R-A-7	BUR over Concrete Deck	JM Invinsa	JM MBR Bonding Adhesive	JM PVC	PVC MA (LowVOC) applied 0.83 gal/100ft ² or PVC MA (WB) applied at 0.67 gal/100ft ²	-112.5 (Lim. 9)
R-A-8	BUR over Concrete Deck	JM Invinsa	JM MBR Bonding Adhesive	JM PVC SD Plus	PVC MA (LowVOC) applied 0.83 gal/100ft ²	-112.5 (Lim. 9)
R-A-9	BUR over Concrete Deck	Base Layer: Min. 1.5- inch <i>E3</i> (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: <i>UIA</i> applied 6-inch o.c. or 2-Part UIA applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c.	JM PVC	PVC MA (LowVOC) applied at 0.83 gal/100ft², PVC MA (WB) applied at 0.67 gal/100ft², or PVC WBMA	-112.5 (Lim. 9)
R-A-10	BUR over Concrete Deck	Base Layer: Min. 1.5- inch E3 (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: <i>UIA</i> applied 6-inch o.c. or 2-Part UIA applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c.	JM PVC SD Plus	PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA	-112.5 (Lim. 9)
R-A-11	BUR over Concrete Deck	Base Layer: Min. 1.5- inch E3 (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: <i>UIA</i> applied 6-inch o.c. or 2-Part UIA applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c.	JM PVC FB	2-Part UIA-C(S) or PVC WBMA	-112.5 (Lim. 9)
R-A-12	BUR over Concrete Deck	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-217.5 (Lim. 9)
R-A-13	BUR over Concrete Deck	Min. 1.5-inch <i>E3</i> (no FR)	2-Part UIA applied 12-inch o.c.	JM PVC FB	ASTM D 312 Type IV Asphalt	-217.5 (Lim. 9)

	Mechanically Fastened 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, P, L6, S24) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)			

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			Mech	nanically Fastened I	Recover Assemblie	es		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-2	Steel Deck (G33, F1, L6, S24) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-45 (Lim. 7)
R-M-3	Steel Deck (G33, F1, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	HL Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	-52.5 (Lim. 9)
R-M-4	Steel Deck (G33, F1, L6, S24) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)
R-M-5	LWIC over Steel Deck (G33, F1, L5, S12) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL INSULATION	Preliminarily Secured	JM PVC FB (min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
R-M-6	Steel Deck (G33, P, L6)	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> or Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	-60 (Lim. 9)
R-M-7	Steel Deck (G33, F1, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	APB Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)
R-M-8	Steel Deck (G33, F1 or P, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	HL Fasteners & Plates spaced 12-inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)

	Induction Welded Recover Assemblies										
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)			
R-W-1	Steel Deck (G33, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3, or Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates placed max. 12" o.c. in rows max. 72" o.c.	-37.5 (Lim. 7; Non- HVHZ)			

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			Ind	luction Welded Re	cover Assemblies			
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-W-2	Steel Deck (G33, F1, 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	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates placed max. 12" o.c. in rows max. 60" o.c.	-45 (Lim. 7)
R-W-3	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch E3, or Cover Board	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 120-inch o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-45 (Lim. 7)
R-W-4	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch E3, or Cover Board	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 18-inch o.c.; Fastener rows max. 60-inch o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-45 (Lim. 7)
R-W-5	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
R-W-6	Steel Deck (G33, F1, 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>	High Load Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board (staggered) (1 fastener per 4.0-ft²)	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)
R-W-7	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Optional SECUROCK	JM All Purpose Fasteners and JM PVC RhinoPlates secured at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
R-W-8	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch E3, or Cover Board	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 12-inch o.c.; Fastener rows max. 60-inch o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
R-W-9	Steel Deck (G33, F1, L6, S24) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch E3, or Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates placed max. 6" o.c. in rows max. 72" o.c.	-82.5 (Lim. 7)
R-W-10	Steel Deck (G33, F1, 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	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates placed max. 6" o.c. in rows max. 60" o.c.	-90 (Lim. 7)
R-W-11	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with <i>ISOWELD-#15</i> spaced 6" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-90 (Lim. 7)

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	Induction Welded Recover Assemblies									
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)		
R-W-12	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	Min. 1-inch E3, or Cover Board	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 60-inch o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-120 (Lim. 7)		

		Assen	nblies with Adl	nered Membranes	over Insulated	d Steel Deck (New, I	Existing, or <i>Re</i>	cover)	
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	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² , PVC MA (LowVOC)	-30 (Lim. 7; Non- HVHZ)
S-AM-2	G33, P, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-30 (Lim. 7; Non- HVHZ)
S-AM-3	G33, P, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.67ft ²	JM PVC FB	RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-30 (Lim. 7; Non- HVHZ)
S-AM-4	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² or PVC MA (LowVOC)	-37.5 (Lim. 9; Non- HVHZ)
S-AM-5	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-37.5 (Lim. 9; Non- HVHZ)
S-AM-6	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM PVC FB	PVC MA (WB)	-37.5 (Lim. 9; Non- HVHZ)

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		Assen	nblies with Adl	hered Membranes	s over Insulated	Steel Deck (New,	Existing, or Red	cover)	
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-7	G33	ProtectoR attached with UltraFast Fasteners & Plates (Square) 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, RetroPlus, SeparatorR CGF, SeparatoR FR, INVINSA, DensDeck, DensDeck Prime, DEXcell FA, or SECUROCK	<i>OSFA, RSUA</i> , or 2- <i>Part UIA</i> applied 12-inch o.c.	JM PVC, or JM PVC SD Plus	PVC MA (WB) or PVC MA (LowVOC)	-37.5 (Lim. 7; Non- HVHZ)
S-AM-8	G33	ProtectoR attached with UltraFast Fasteners & Plates (Square) 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, RetroPlus, SeparatorR CGF, SeparatoR FR, INVINSA, DensDeck, DensDeck Prime, DEXcell FA, or SECUROCK	<i>OSFA, RSUA</i> , or 2 <i>-Part UIA</i> applied 12-inch o.c.	JM PVC FB	PVC MA (WB), RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)
S-AM-9	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² or PVC MA (LowVOC)	-45 (Lim. 7)
S-AM-10	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-45 (Lim. 7)

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		Asser	nblies with Adl	nered Membranes	over Insulated	Steel Deck (New,	Existing, or Re	cover)	
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-11	G33	OPTIONAL Vapor Barrier	Min. 1.5-inch E3	Simultaneously secured with top layer	ProtectoR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 4ft ²	JM PVC FB	RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-45 (Lim. 7)
S-AM-12	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM PVC or JM PVC SD Plus	PVC MA (WB) or PVC MA (LowVOC)	-45 (Lim. 7; Non- HVHZ)
S-AM-13	G33	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates secured 1 fastener per 5.3ft ²	JM PVC FB	PVC MA (WB)	-45 (Lim. 7; Non- HVHZ)
S-AM-14	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC or PVC SD Plus	PVC MA (WB) or PVC WBMA	-45 (Lim. 7)
S-AM-15	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c., PVC MA (WB) or PVC WBMA	-45 (Lim. 7)
S-AM-16	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-52.5 (Lim. 7)
S-AM-17	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-52.5 (Lim. 7)
S-AM-18	G33, F1, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-19	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-52.5 (Lim. 7)

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		Assen	nblies with Adh	nered Membranes	over Insulated	Steel Deck (New,	Existing, or Re	cover)	
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-20	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-52.5 (Lim. 7)
S-AM-21	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners & Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: RSUA applied 12-inch o.c.	-52.5 (Lim. 7)
S-AM-22	G33, F2, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners & Plates secured 1 fastener per 1.78ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-23	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²	-60 (Lim. 7)
S-AM-24	G33, F2W, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-25	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.78ft ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: JM PVC FB	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-60 (Lim. 7)
S-AM-26	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.78ft ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC or JM PVC SD Plus	PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²)	-60 (Lim. 7)
S-AM-27	G33, F1, L6, S30	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.78ft ²	Min 1/2-inch SECUROCK	OSFA, RSUA or 2-Part UIA applied 12-inch o.c.	JM PVC FB	PVC MA (WB) or 2-Part UIA-C(S)	-60 (Lim. 7)

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		Asser	nblies with Adh	nered Membranes	s over Insulated	Steel Deck (New,	Existing, or Red	cover)	
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)
C AM 00	G40, P,	OPTIONAL	OPTIONAL INSULATION	Simultaneously	SECUROSK	UltraFast Fasteners & Plates (Square)	Base Ply: DynaBase HW	Base Ply: Torch Adhered	-60
S-AM-28	L6, S20	Vapor Barrier	under min. 1.5-inch <i>E</i> 3	secured with top layer	SECUROCK	secured 1 fastener per 1.78ft ²	Membrane: JM PVC FB	Membrane: <i>RSUA</i> applied 12-inch o.c.	(Lim. 7)
S-AM-29	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	2-Part UIA-C(S)	-60 (Lim. 7)
S-AM-30	G33, F2W, L6, S18	OPTIONAL Vapor Barrier	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners & Plates secured 1 fastener per 1ft²	SECUROCK, RetroPlus, or JM Invinsa	RSUA or 2-Part UIA applied 6-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 7)
	G33,	OPTIONAL	OPTIONAL INSULATION	UltraFast Fasteners &	0=0//500//	OSFA, RSUA or	Base Ply: DynaBase HW	Base Ply: Torch Adhered	-67.5
S-AM-31	S-AM-31 F2W, L6, S18	Vapor Barrier	rrier under min. 1.5-inch E3	Plates secured 1 fastener per 1ft ²	SECUROCK	2-Part UIA applied 6-inch o.c.	Membrane: JM PVC FB	Membrane: <i>RSUA</i> applied 12-inch o.c.	(Lim. 7)
S-AM-32	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-67.5 (Lim. 7)
S-AM-33	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM PVC FB	2-Part UIA-C(S)	-67.5 (Lim. 7)
S-AM-34	G33, F, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.6ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)
S-AM-35	G33, F, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.6ft ²	JM PVC FB	2-Part UIA-C(S)	-75 (Lim. 7)
S-AM-36	G33, F, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.6ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-75 (Lim. 7)
S-AM-37	G33, F2, L6, S24	OPTIONAL Vapor Barrier	Min. 1.5-inch <i>E</i> 3	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners & Plates (Square) secured 1 fastener per 2.0ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)

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		Assen	nblies with Adl	nered Membranes	s over Insulated	Steel Deck (New, I	Existing, or Re	cover)	
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-38	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.6ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-75 (Lim. 7)
S-AM-39	G80, F1W, L6, S24	Min. 0.5-inch DEXcell FA; UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ² ; 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.	<i>JM PVC FB</i> (Min. 60 mil)	RSUA applied 6-inch o.c. or 2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-40	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	<i>JM PVC FB</i> (Min. 60 mil)	RSUA applied 4-inch o.c. or 2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-41	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-82.5 (Lim. 7)
S-AM-42	G33, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-82.5 (Lim. 7)
S-AM-43	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC) applied at 1.0 gal/100ft ²	-82.5 (Lim. 7)
S-AM-44	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC) applied at 1.0 gal/100ft ²	-82.5 (Lim. 7)
S-AM-45	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S)	-82.5 (Lim. 7)

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		Assen	nblies with Adh	nered Membranes	s over Insulated	Steel Deck (New,	Existing, or <i>Re</i>	cover)	
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-46	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-82.5 (Lim. 7)
S-AM-47	G33, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	ASTM D 312 Type IV	-82.5 (Lim. 7)
S-AM-48	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC) applied at 1.0 gal/100ft ²	-105 (Lim. 7)
S-AM-49	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-105 (Lim. 7)
S-AM-50	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC) applied at 1.0 gal/100ft ²	-112.5 (Lim. 7)
S-AM-51	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-112.5 (Lim. 7)
S-AM-52	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-120 (Lim. 7)
S-AM-53	G80, F2, L6, S24	OPTIONAL Vapor Barrier	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch E3 (no AGF) or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1.0ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-120 (Lim. 7)
S-AM-54	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC or PVC SD Plus	PVC MA (LowVOC)	-120 (Lim. 7)
S-AM-55	G80, F1W, L6, S24	OPTIONAL Vapor Barrier	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or E3 C1	UltraFast Fasteners & Plates secured 1 fastener per 1ft ²	Min. 1.5-inch ENRGY 3	OSFA, RSUA or 2-Part UIA applied 4-inch o.c.	JM PVC FB	ASTM D 312 Type IV Asphalt	-120 (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-56	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	UltraFast Fasteners & Plates (Square) secured 1 fastener per 1.0ft ²	JM PVC FB	RSUA applied 4-inch o.c.	-142.5 (Lim. 7)			

		ı	Mechanically Faste	ened Assemblies o	ver Steel Deck (New, E	xisting, or Re	cover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-1	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (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-2	G33, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with Extra HL Fastener & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)
S-M-3	G33, F1 or P, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC or JM PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-4	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-45 (Lim. 7)
S-M-5	G33, F1 or P, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-6	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	-45 (Lim. 7)
S-M-7	G33, P, L6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 72-inch o.c.	-45 (Lim. 7)

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		ı	Mechanically Faste	ened Assemblies o	ver Steel Deck (New, E	xisting, or Re	cover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-8	G33, H1, L6, SH24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 138-inch o.c.	-52.5 (Lim. 7)
S-M-9	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (Min. 60 mil)	Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c.	-52.5 (Lim. 7)
S-M-10	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 PVC FB/ DynaFast	HL Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	-52.5 (Lim. 9)
S-M-11	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 PVC SD Plus	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)
S-M-12	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	-60 (Lim. 7)
S-M-13	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC or JM PVC FB	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 4.5- inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-14	G80, F1, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 5.5- inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-15	G80, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-16	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	APB Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)

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		ı	Mechanically Faste	ened Assemblies o	ver Steel Deck (New, E	xisting, or Re	cover)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
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 PVC FB/ DynaFast	HL Fasteners & Plates spaced 12- inch o.c within each min. 4-inch heat welded side lap.	-60 (Lim. 9)
S-M-18	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC FB/ DynaFast	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	-60 (Lim. 9)
S-M-19	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC (Min. 60 mil)	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c.	-75 (Lim. 7)

			Induction Wel	ded Assemblies	over Steel Deck (New, Existin	ng, or <i>Recov</i> e	r)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-1	G33, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 12" o.c. in rows max. 72" o.c.	-37.5 (Lim. 7; Non- HVHZ)
S-W-2	G33, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
S-W-3	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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
S-W-4	G40, P, L6, S36	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-37.5 (Lim. 7; Non- HVHZ)
S-W-5	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 12" o.c. in rows max. 60" o.c.	-45 (Lim. 7)

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			Induction Wel	ded Assemblies	over Steel Deck (New, Existing	ng, or <i>Recove</i>	r)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-6	G33, 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" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
S-W-7	G80, F1, L6, S36	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-45 (Lim. 7)
S-W-8	G33, P, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	High Load Fasteners and JM PVC RhinoPlates in a 2-ft x 2-ft staggered grid pattern	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)
S-W-9	G33, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-60 (Lim. 7)
S-W-10	G33, F1, L6, S18	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	High Load Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft²)	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
S-W-11	G33, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 or ISOWELD-#14 spaced 18" o.c. in rows 24" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-67.5 (Lim. 7)
S-W-12	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 6" o.c. in rows max. 72" o.c.	-82.5 (Lim. 7)
S-W-13	G40, 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 PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-82.5 (Lim. 7)
S-W-14	G33, SD1W, L6, SDL24	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 18" o.c. in rows 18" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-82.5 (Lim. 7)
S-W-15	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC SD Plus (Min. 60 mil)	Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 6" o.c. in rows max. 60" o.c.	-90 (Lim. 7)

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			Induction Wel	ded Assemblies	over Steel Deck (New, Existi	ng, or <i>Recove</i>	r)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-16	G33, F2W, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	High Load Fasteners and JM PVC RhinoPlates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft²)	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-90 (Lim. 7)
S-W-17	G40, F1, L5, S30	INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with ISOWELD-#15 spaced 6" o.c. in rows 60" o.c.	JM PVC JM PVC SD Plus (Min. 60 mil)	Induction welded to Isoweld plates	-90 (Lim. 7)

		Asseml	olies with Adhered	l Membranes over l	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	T19/320, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	DEXcell FA	AP Fasteners & Plates (Square) at a rate of 6 per 4-ft x 4-ft board (1 fastener per 2.67-ft²)	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-2	T7/160, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ²	JM PVC	PVC MA (WB) applied at 0.67 gal/100ft ² or PVC MA (LowVOC)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-3	T7/160, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ²	JM PVC SD Plus	PVC MA (LowVOC)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-4	T7/160, L24, N6	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	ProtectoR HD	UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ²	JM PVC FB	RSUA applied 12-inch o.c. or 2-Part UIA-C(S)	-37.5 (Lim. 7; Non- HVHZ)
W-AM-5	T7/160 or T15/32P, L24	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 1.5-inch ENRGY 3	AP Fasteners & Plates (Square) at a rate of 16 per 4-ft x 8-ft board (1 fastener per 2-ft²)	JM PVC or JM PVC SD Plus	PVC MA (LowVOC)	-45 (Lim. 7; Non- HVHZ))

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	Mechanically Fastened Assemblies over Wood 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-M-1	T19/32P, L25	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Fastener rows max. 72-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)				
W-M-2	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 12-inch o.c. with All Purpose Fasteners and High Load Plates through deck into wood supports; Fastener shall have sufficient length to penetrate min. 1.5-inch into wood supports; Fastener rows max. 72-inch o.c.	-45 (Lim. 7)				

Induction Welded Assemblies over Wood 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	T7/160 or T15/32P, L24	As required	Min. 1-inch <i>E</i> 3 or <i>E</i> 3 <i>C</i> 1	Loose laid	OPTIONAL Cover Board	JM All Purpose Fasteners (min. 1.5- inch embedment into wood supports) and JM PVC RhinoPlates secured max. 48-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-37.5 (Lim. 7; Non- HVHZ)	
W-W-2	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 PVC RhinoPlates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	JM PVC (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)	

END OF REPORT

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