

EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer:	JOHNS MANVILLE CORPORATION Issued December 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: Subcategory: Code Sections: Properties:	Roofing Single Ply Roof System 1504.3.1, 1504.6, 1504.7, 1507.13, 1515.1.1 , 1515.1.4, 151 1523.6.5.2.9 Wind Resistance, Physical Properties, Impact Resistance	5.2.4, 1523.1.1, 1523.6.2,	

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 ^{1M} 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 [™] 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 [™] 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 [™] 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	Report No.	Standard
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-026	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)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-029	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-030	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-031	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-032	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-033	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-034	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-035	TAS 114(D) (1995)
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Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-037	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-038	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-039	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-040	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-041	TAS 114(D) (1995)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-042	TAS 114(D) (1995)
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Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-046	TAS 114(D) (1995)
FM Approvals (TST1867)	3009502	FM 4470 (2012)
FM Approvals (TST1867)	3012321	FM 4470 (2012)
FM Approvals (TST1867)	3014692	FM 4470 (2012)
FM Approvals (TST1867)	3014751	FM 4470 (2012)
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FM Approvals (TST1867)	3016629	FM 4470 (2012)
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FM Approvals (TST1867)	3028040	FM 4470 (2012)
FM Approvals (TST1867)	3030259	FM 4470 (2012)
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FM Approvals (TST1867)	3039813	FM 4470 (2012)
FM Approvals (TST1867)	3040105	FM 4470 (2012)
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FM Approvals (TST1867)	3058201	FM 4470 (2012)
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FM Approvals (TST1867)	3060573	FM 4470 (2012)
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Miami-Dade (EVL1528)	12-0216.01	TAS 114(J) (1995)
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Miami-Dade (EVL1528)	13-0617.20	TAS 114(J) (1995)
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Momentum Technologies (TST2508)	CX23G3A	ASTM D 4434 (2012)
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PRI Construction Materials Technologies (TST5878)	JMC-086-02-01	FM 4474 (2011); TAS 114(J) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-088-02-01	ASTM D 1876 (2008); TAS 117(B) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-107-02-01 Rev 4	ASTM D 903 (1998); ASTM D 1876 (2008);
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		ASTM D 5147 (2011a) TAS 117(B & A)
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PRI Construction Materials Technologies (TST5878)	JMC-108-02-01	(1995); TAS 114(C) (1995) FM 4474 (2011); TAS 114 (J) (1995)
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PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	JMC-109-02-01 JMC-114-02-01 JMC-131-02-01	(1995); TAS 114(C) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (D) (1995)
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PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	JMC-109-02-01 JMC-114-02-01 JMC-131-02-01 JMC-132-02-02 JMC-141-02-01 JMC-143-02-01 JMC-162-02-01 JMC-163-02-01 JMC-193-02-01 JMC-193-02-01 JMC-201-02-01A JMC-201-02-01B JMC-201-02-01 JMC-205-02-01 JMC-205-02-01 JMC-216-02-01	(1995); TAS 114(C) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (D) (1995) FM 4474 (2011); TAS 114(D) (1995) FM 4474 (2011); TAS 114(D) (1995) FM 4474 (2011); TAS 114(J) (1995) ASTM D 3746 [(1985(2015)] FM 4474 (2011); TAS 114(J) (1995) ASTM D 6878 (2011a)
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	JMC-109-02-01 JMC-114-02-01 JMC-131-02-01 JMC-132-02-01 JMC-132-02-02 JMC-141-02-01 JMC-143-02-01 JMC-163-02-01 JMC-163-02-01 JMC-193-02-01 JMC-193-02-01 JMC-193-02-01 JMC-201-02-01A JMC-201-02-01B JMC-209-02-01 JMC-209-02-01 JMC-216-02-03	(1995); TAS 114(C) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (J) (1995) FM 4474 (2011); TAS 114 (D) (1995) FM 4474 (2011); TAS 114(D) (1995) FM 4474 (2011); TAS 114(J) (1995) ASTM D 3746 [(1885(2015)] FM 4474 (2011); TAS 114(J) (1995) ASTM D 6878 (2011a) ASTM D 6878 (2011a)
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Entity	Report No.	<u>Standard</u>
PRI Construction Materials Technologies (TST5878)	JMC-278-02-03	FM 4474(D) (2011); TAS 114(J) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-303-02-01	FM 4474(D) (2011); TAS 114(J) (1995);
C ()		UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-01	FM 4474(B) (2011); TAS 114(D) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-02	FM 4474(D) (2011); TAS 114(J) (1995);
		UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-03	FM 4474(D) (2011); TAS 114(J) (1995);
		UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-311-02-01	FM 4474(B) (2011); TAS 114(D) (1995)
Robert J.M. Nieminen, P.E.	Compliance Letter	TAS 114 (2011)
	02/09/2017	
Trinity ERD (TST6049)	J33600.08.13	TAS 131 (1995)
Trinity ERD (TST6049)	J45020.05.13-1	TAS 114(C) (1995)
Trinity ERD (TST6049)	J45020.09.13-1-R1	TAS 114(C) (1995)
Trinity ERD (TST6049)	JM-SC11190.03.16	TAS 114(J) (1995)
Trinity ERD (TST6049)	JM-SC11320.03.16	TAS 114(D) (1995)
Trinity ERD (TST6049)	JM-SC12145.02.17	FM 4474(C) (2004)
Trinity ERD (TST6049)	SC4910	FM 4474 (2011); TAS 114(J) (1995)

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LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation.
- 2. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 and 2603.6.
- 3. The roof deck and the roof deck attachment 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.

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This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



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 (4 pages)
- APPENDIX B Nomenclature (3 pages)
- 3) APPENDIX C Approved Assemblies for JM TPO Single-Ply Membranes (37 pages)
- 4) APPENDIX D Approved Assemblies for JM PVC Single-Ply Membranes (24 pages)

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APPENDIX A - INSTALLATION

INSTALLATION

Note - Refer to the <u>APPROVED ASSEMBLIES</u> 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
Fasteners. Battens &	JM UltraFast Plate (Square)	3-inch square; Galvalume steel plate
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; 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; 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.
	Trufast Deep Well Batten Bar	Galvalume steel membrane batten with recessed holes
	Trufast Straight Line Batten Bar	Galvalume steel membrane batten for use with Twin-Loc Nail without integrated plate
	Trufast 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	
	ICP Adhesives CR-20	
	OMG OlyBond 500	Ribbon adhered in 3/4 to 1-inch wide beads
Insulation Adhesives	JM Two Part Urethane Insulation Adhesive Canister	
	JM Urethane Insulation Adhesive	Ribbon adhered in 1/2-inch wide beads
	JM Two Part Urethane Insulation Adhesive	Ribbon adhered in 1/2 to 3/4-inch wide beads
	JM Roofing System Urethane Adhesive	
	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ${\rm ft}^2$
Insulation/Cover Boards	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

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APPENDIX A - INSTALLATION

Component	Product	Installation Detail	
	JM ENRGY 3		
	JM ENRGY 3 AGF	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft	
	JM ENRGY 3 CGF		
	JM ENRGY 3 FR	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft	
	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		
Boards (Cont'd)	JM Retro-Fit Board	1/2-inch thick: Adhered boards shall be a maximum 4 ft x 4 ft	
	JM RetroPlus Roof Board	·· _ ·· • · · · · · · · · · · · · · · ·	
	JM SECUROCK Glass-Mat Roof Board	Min. 1/4-inch thick	
	JM SECUROCK Gypsum-Fiber Roof Board		
	National Gypsum DEXcell Cement Roof Board	Min. 7/16-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
	National Gypsum DEXcell Glass Mat Roof Board	Min. 1/4-inch thick	
	National Gypsum DEXcell FA Glass Mat Roof Board		
Base Ply and Vapor Barrier Adhesives	ADCO Millennium Hurricane Force Membrane Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads	
	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 PVC Fleece Backed membranes	
PVC Membrane	JM PVC Membrane Adhesive (Low VOC)	Fully adhered at rate of 50-90 ft ² /gal; Applied simultaneously to underside of membrane and substrate	
Adhesives	JM PVC Membrane Adhesive (Water Based)	Fully adhered at a rate of 90-130 ft ² /gal; Two-side application required for bareback TPO; Applied only to substrate when used with fleeceback TPO	
	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 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 ft ² /gal; Applied simultaneously to underside of membrane and substrate	
TPO Membrane	JM TPO Membrane Adhesive (Low VOC)	Fully adhered at rate of 50-90 ft ² /gal; Applied simultaneously to underside of membrane and substrate	
Adhesives	JM LVOC Membrane Adhesive (TPO & EPDM)	Fully adhered at rate of 0.55-0.83 gal/100ft ² in two-sided application (1.1-1.67 gal/100ft ² total)	
	JM TPO Water Based Membrane Adhesive	Fully adhered at a rate of 0.6-0.8 gal/100ft ² ; Two-side application required for bareback TPO; Applied only to substrate when used with fleeceback TPO	
	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 approved adhesives	
	JM Vapor Barrier SA	Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps	
Base Sheets	JM DynaBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold <i>approved</i> adhesives	
	JM DynaBase HW	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered	

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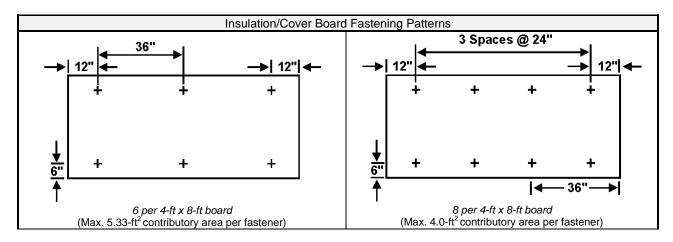
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APPENDIX A - INSTALLATION

Component	Product	Installation Detail	
Base Sheets (Cont'd)	JM DynaFast 180 S	Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems	
	JM TPO-45	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld	
	JM TPO-60		
	JM TPO-80	for adhered systems; In-lap fastened systems shall have	
TPO Single-Ply	JM TPO FB 115	min. 6-inch wide side-laps with min. 1.5-inch wide heat weld;	
Membranes	JM TPO FB 135	Side-laps shall be installed perpendicular to the direction of	
	JM TPO FB 150	the steel deck ribs and parallel to the direction of the wood	
	JM TPO FB 175	trusses for mechanically attached systems	
	JM TPO SA-60 mil		
	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 weld	
	JM PVC Fleece Backed-50 mil	for adhered systems; In-lap fastened systems shall have	
PVC Single-Ply Membranes	JM PVC Fleece Backed-60 mil	min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the direction of	
Membranes	JM PVC Fleece Backed-80 mil	the steel deck ribs and parallel to the direction of the wood	
	JM PVC SD Plus-50 mil	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/ft ³); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of 300 ft ² /gal.	
Concrete	Mearlcrete		
	Elastizell	Slurry coat min. 1/8-inch thick; 1" thick EPS board (1 lbs/ft ³); Min. 2-inch thick top coat;	
	Concrecel		
	Cellular Lightweight Concrete		



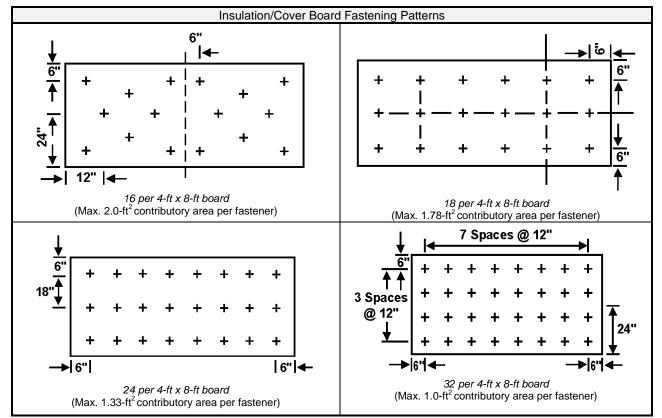
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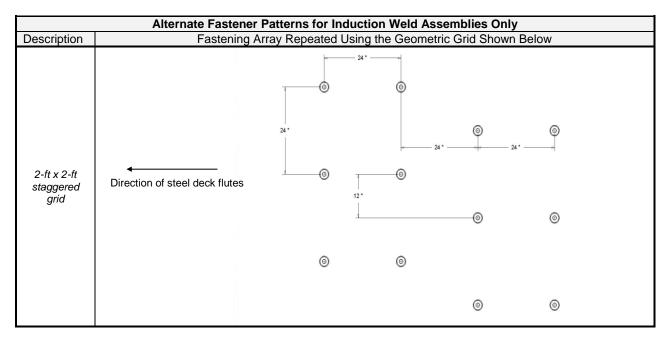
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specifically addressed herein.

APPENDIX A - INSTALLATION





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	provided for State of Florida product approval under Rule 61G20-3.	
Technical Services, LLC	of any product changes or quality assurance changes throughout the	e duration for which this report is valid.
This evaluation report do	es not express nor imply warranty, installation, recommended use,	or other product attributes that are not



APPENDIX B - NOMENCLATURE

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			
2-Part UIA	JM Two Part Urethane Insulation Adhesive or JM Two Part Urethane Insulation Adhesive Canister			
2-Part UIA-C(B)	JM Two Part Urethane Insulation Adhesive Canister applied in 1/2-inch wide beads			
2-Part UIA-C(S)	JM Two Part Ure	thane Insulat	ion Adhesive Canister applied in spatter application at a rate of 0.32 gal/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 Fast	ener or Struc	tural Concrete Deck Fastener (concrete only) and UltraFast Square Recessed Metal Plate	
APB Fasteners & Plates	JM APB Plates a	and JM High L	Load Fasteners (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck)	
As Tested	Information provi	ided to the re	port user based on the as tested condition of the roof system	
Cover Board	-Georgia-Pacific -Georgia-Pacific -JM Invinsa Roo -JM Invinsa FR F -JM SECUROCK -JM SECUROCK -National Gypsu -National Gypsu	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 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		hall be designed by others in accordance with FBC requirements. deck construction details are described as follows:		

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APPENDIX B - NOMENCLATURE

Name	Definition	Definition		
Deck Detail (Cont'd) DensDeck	Wood Deck	condition: T<#>P T<#>O L<#> N<#> 16S<#>	A Span-Rated sheathing. The following nomenclature is used to further describe the As Tested Min. <#>-inch thickness of the plywood Min. <#>-inch thickness of the OSB Max. span of <#> inches 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 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	
DEXcell CB		-	n DEXcell Cement Roof Board	
DEXcell FA			n DEXcell FA Glass Mat Roof Board	
E3			AGF, JM ENRGY 3 CGF or JM ENRGY 3 FR	
Extra HL Fasteners & Plates			s (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM Extra High Load	
HL Fasteners & Plates	JM High Load Fa	asteners (Wo	od Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM High Load Plates	
INSULATION	-ENRGY 3 -ENRGY 3 AGF -ENRGY 3 CGF -ENRGY 3 FR -Fesco Board -Fesco Foam -Invinsa Roof Bo -Invinsa FR Roo -Retro-Fit Board -Retro-Fit Board -Retro-Fit Board -Retro-Fit Board -SECUROCK GI -SECUROCK GI -SECUROCK GI -EPS (flute fill or	One of more layers in any combination of the following products: -ENRGY 3 -ENRGY 3 AGF -ENRGY 3 CGF -ENRGY 3 FR -Fesco Board		
INVINSA	JM Invinsa or JI	JM Invinsa or JM Invinsa FR Roof Board		
LWIC		Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board		
MCRF		Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly		
MDP		Maximum Design Pressure		
Preliminarily Secured			5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board.	
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		

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APPENDIX B - NOMENCLATURE

Name	Definition
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
OSFA	JM One-Step Foamable Adhesive
PVC Bonding Adhesive	Any one of the following products: -JM PVC Membrane Adhesive (Low VOC) -JM PVC Membrane Adhesive (Water-Based)
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.
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
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)

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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 may be installed direct to deck prior to installing the roof assembly components for the following assembly types: C-M-#, C-W-#, LC-M-#, LS-M-#, LS-W-#, 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)
<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 Cementitious Wood Fiber Decks (New or Existing)
<u>G-A-#</u>	Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)
<u>G-AM-#</u>	Assemblies with Adhered Membranes over Insulated Gypsum Deck (New or Existing)
<u>LC-A-#</u>	Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing)
LC-AM-#	Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing)
<u>LC-M-#</u>	Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)
<u>LC-W-#</u>	Induction Welded Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover)
<u>LS-A-#</u>	Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing)
LS-AM-#	Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing)
<u>LS-M-#</u>	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)
<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
<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)

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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	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6-inch o.c.	Min. 1.5-inch ENRGY 3 applied in <i>RSUA</i> at 12-inch o.c.	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)
C-A-2	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6-inch o.c.	Min. 1.5-inch ENRGY 3 applied in <i>RSUA</i> at 12-inch o.c.	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 9)
C-A-3	OPTIONAL JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	Min. 1.5-inch <i>E3</i> applied in <i>RSUA</i> or <i>2-Part UIA;</i> Applied 12-inch o.c.	OPTIONAL SECUROCK or JM Invinsa applied in RSUA or 2-Part UIA; Applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)
C-A-4	OPTIONAL JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	Min. 1.5-inch <i>E</i> 3 applied in <i>RSUA</i> or 2- <i>Part UIA;</i> Applied 12-inch o.c.	OPTIONAL SECUROCK or JM Invinsa applied in RSUA or 2-Part UIA; Applied 12-inch o.c.	JM TPO SA	Self-adhered	-67.5 (Lim. 9)
C-A-5	-	Min. 1.5-inch ENRGY 3 applied in <i>OSFA</i> or 2- <i>Part</i> <i>UIA</i> at 12-inch o.c.	OPTIONAL JM Invinsa applied in 2-Part UIA at 12-inch o.c.	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO Water Based Adhesive; Applied 0.63- 0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ² (not with JM Invinsa)	-105 (Lim. 9)
C-A-6	-	Min. 1.5-inch ENRGY 3 applied in <i>OSFA</i> or 2- <i>Part</i> <i>UIA</i> at 12-inch o.c.	OPTIONAL JM Invinsa applied in 2-Part UIA at 12-inch o.c.	JM TPO SA	Self-adhered	-105 (Lim. 9)
C-A-7	-	INVINSA applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim. 9)
C-A-8	-	Min. 1.5-inch E3 applied in OSFA, RSUA or 2-Part UIA;Applied 12-inch o.c.	-	JM TPO SA	Self-adhered	-105 (Lim 9)
C-A-9	-	<i>RetroPlus</i> applied in ASTM D 312, Type IV asphalt	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 1.1-2.0 gal/100ft ²	-105 (Lim. 9)

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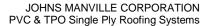
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		Adhered Asse	mblies over Concret	e Deck (New c	or Existing)	-
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-10	-	Min. 1.5-inch E3 applied in OSFA, RSUA or 2-Part UIA;Applied 12-inch o.c.	-	JM TPO FB	RSUA or 2-Part UIA applied 4-inch o.c.; Min. 2-inch side lap secured with min. 1.5-inch heat weld.	-112.5 (Lim 9)
C-A-11	-	Min. 1.5-inch <i>E3</i> applied in 2-Part UIA, OSFA or RSUA at 12-inch o.c.	-	JM TPO	JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-172.5 (Lim. 9)
C-A-12	-	Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, or ENRGY 3 FR applied in <i>2-Part UIA</i> at 12-inch o.c.	-	JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-187.5 (Lim. 9)
C-A-13		Min. 1.5-inch ENRGY 3, ENRGY 3 CGF, or ENRGY 3 FR applied in <i>2-Part UIA</i> at 12-inch o.c.	-	JM TPO	JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-195 (Lim. 9)
C-A-14	DynaBase HW	SECUROCK applied in RSUA at 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-15	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF applied in <i>RSUA</i> at 12-inch o.c.	SECUROCK applied in RSUA at 12-inch o.c.	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-16	-	SECUROCK applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO SA	Self-adhered	-247.5 (Lim. 9)
C-A-17	-	INVINSA applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO	JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-255 (Lim. 9)
C-A-18	-	INVINSA applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-277.5 (Lim. 9)
C-A-19	DynaBase HW	SECUROCK applied in RSUA at 12-inch o.c.	-	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-292.5 (Lim. 9)
C-A-20	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF applied in <i>RSUA</i> at 12-inch o.c.	SECUROCK applied in RSUA at 12-inch o.c. FL# 16758-R1	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-292.5 (Lim. 9) Page 3 of 3



		Adhered Asse	emblies over Concret	te Deck (New o	r Existing)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-21	-	Min. 1.5-inch E3 applied in 2-Part UIA at 12-inch o.c.	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); applied 0.55 gal/100ft ²	-322.5 (Lim. 9)
C-A-22	-	DEXcell CB applied in 2-Part UIA or OlyBond 500 at 12-inch o.c.	-	JM TPO FB	JM TPO Water Based Membrane Adhesive	-322.5 (Lim. 9)
C-A-23	-	SECUROCK applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-345 (Lim. 9)
C-A-24	-	SECUROCK applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO	JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ²	-360 (Lim. 9)
C-A-25	-	DEXcell CB or DEXcell FA applied in 2-Part UIA or OlyBond 500 at 12-inch o.c.	-	JM TPO	JM TPO Membrane Adhesive (Low VOC), JM LVOC Membrane Adhesive (TPO & EPDM), JM TPO Water Based Membrane Adhesive or JM Membrane Bonding Adhesive (TPO & EPDM)	-390 (Lim. 9)
C-A-26	-	DEXcell FA applied in 2-Part UIA or OlyBond 500 at 12-inch o.c.	-	JM TPO SA	Self-adhered	-390 (Lim. 9)
C-A-27	-	<i>DEXcell FA</i> applied in <i>2-Part UIA</i> or OlyBond 500 at 12-inch o.c.	-	JM TPO FB	JM TPO Water Based Membrane Adhesive	-390 (Lim. 9)
C-A-28	-	<i>DEXcell FA</i> applied in <i>2-Part UIA</i> or OlyBond 500 at 12-inch o.c.	-	JM TPO HFB	ASTM D 312, Type IV Asphalt	-390 (Lim. 9)
C-A-29	-	-	-	JM TPO FB	2-Part UIA-C(S)	-457.5 (Lim. 9)
C-A-30	-	SECUROCK applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-465 (Lim. 9)
C-A-31	-	INVINSA applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ²	-465 (Lim. 9)
C-A-32	-	SECUROCK applied in 2-Part UIA, OSFA, or RSUA at 12-inch o.c.	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ²	-495 (Lim. 9)
C-A-33	-	-	-	JM TPO FB	2-Part UIA-C(B) applied 6-inch o.c.	-495 (Lim. 9)
C-A-34	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-502.5 (Lim. 9)





		Assemblies with A	dhered Membran	es over Insulated Concrete	e <i>Deck</i> (New, E	xisting, or <i>Recover</i>)	
System No.	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 INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-45 (Lim. 7; Non- HVHZ)
C-AM-2	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 4.0ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-45 (Lim. 7; Non- HVHZ)
C-AM-3	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and Plates secured 1 fastener per 2.0ft ²	-	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-45 (Lim. 7; Non- HVHZ)
C-AM-4	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and Plates secured 1 fastener per 2.0ft ²	RetroPlus	RSUA or 2-Part UIA; applied 12-inch o.c	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 1.67 gal/100ft ²	-45 (Lim. 7; Non- HVHZ)
C-AM-5	OPTIONAL INSULATION under min. 2-inch ENRGY 3	<i>AP Fasteners and Plates</i> secured 1 fastener per 4.0ft ²	SECUROCK	<i>OSFA, RSUA</i> or 2 <i>-Part UIA;</i> Applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or RSUA applied 12-inch o.c.	-45 (Lim. 7)

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		Assemblies with A	dhered Membran	es over Insulated Concrete	e <i>Deck</i> (New, E	xisting, or <i>Recover</i>)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-6	OPTIONAL INSULATION under min. 2-inch ENRGY 3	AP Fasteners and Plates secured 1 fastener per 4.0ft ²	SECUROCK	OSFA, RSUA or 2 <i>-Part UIA;</i> Applied 12-inch o.c.	JM TPO SA	Self-adhered	-45 (Lim. 7)
C-AM-7	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-52.5 (Lim. 7)
C-AM-8	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-9	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	<i>AP Fasteners and Plates</i> secured 1 fastener per 1.33ft ²	SECUROCK	<i>OSFA, RSUA</i> or <i>2-Part UIA;</i> Applied 12-inch o.c.	JM TPO or JM TPO FB	<i>JM TPO:</i> JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)
C-AM-10	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and Plates secured 1 fastener per 1.33ft ²	SECUROCK	<i>OSFA, RSUA</i> or 2-Part UIA; Applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-11	OPTIONAL INSULATION under min 1.5-inch ENRGY 3	AP Fasteners and Plates secured at a rate of 1 fastener per 1.45ft ²	JM Invinsa	<i>RSUA</i> or <i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-52.5 (Lim. 7)

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		Assemblies with A	dhered Membran	es over Insulated Concrete	e <i>Deck</i> (New, E	xisting, or <i>Recover</i>)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-12	OPTIONAL INSULATION under min 1.5-inch ENRGY 3	AP Fasteners and Plates secured at a rate of 1 fastener per 1.45ft ²	JM Invinsa	RSUA or 2-Part UIA ribbons spaced 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-13	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 2.67ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-52.5 (Lim. 7)
C-AM-14	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 2.67ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
C-AM-15	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates (Square) secured 1 fastener per 1.78ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-52.5 (Lim. 7)
C-AM-16	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-17	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and 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-18	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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)
C-AM-19	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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)

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		Assemblies with A	dhered Membran	es over Insulated Concrete	e <i>Deck</i> (New, E	xisting, or <i>Recover</i>)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-20	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners and Plates secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
C-AM-21	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-60 (Lim. 7)
C-AM-22	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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-23	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83- 1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-60 (Lim. 7)
C-AM-24	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-25	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners and Plates secured 1 fastener per 1.78ft ²	JM TPO	JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-60 (Lim. 7)
C-AM-26	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
C-AM-27	OPTIONAL INSULATION under min. 1.5-inch E3	AP Fasteners and 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)

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		Assemblies with A	dhered Membran	es over Insulated Concrete	e <i>Deck</i> (New, E	xisting, or <i>Recover</i>)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-28	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	AP Fasteners and 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	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-67.5 (Lim. 7)
C-AM-29	OPTIONAL INSULATION under min 1.5- inch ENRGY 3	AP Fasteners and 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-30	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 2.0ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-67.5 (Lim. 7)
C-AM-31	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
C-AM-32	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-82.5 (Lim. 7)
C-AM-33	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
C-AM-34	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 1.33ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-105 (Lim. 7)
C-AM-35	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	AP Fasteners and Plates secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-105 (Lim. 7)
C-AM-36	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-150 (Lim. 7)

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	Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover)									
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)			
C-AM-37	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-150 (Lim. 7)			

		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-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-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 JM All Purpose Fasteners and High Load Plates; Fastener rows max. 90-inch o.c.	-37.5 (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	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-4	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 12-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 114-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 TPO	Attached in-lap 6-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 114-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	Attached in-lap 6-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 114-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 TPO	Attached in-lap 6-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
C-M-8	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 JM All Purpose Fasteners and High Load Plates; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)

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	Mechanically Fastened Assemblies over Concrete Deck (New or Existing)									
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)			
C-M-9	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 JM All Purpose Fasteners and High Load Plates; Fastener rows max. 90-inch o.c.	-75 (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	Attached in-lap 6-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)			

		Indu	ction Welded Asse	emblies over <i>Concrete Deck</i> (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	OPTIONAL INSULATION under min. 1-inch E3	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 (1 fastener per 4.0-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)
C-W-2	OPTIONAL INSULATION under min. 1-inch E3	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-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-75 (Lim. 7)
C-W-3	OPTIONAL INSULATION under min. 1.5-inch E3	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-4	OPTIONAL INSULATION under min. 1.5-inch E3	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-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)

	Adhered Assemblies over Cementitious Wood Fiber 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. 1.5-inch ENRGY 3	OSFA or RSUA applied 12-inch o.c.	JM Invinsa	OSFA, 2-Part UIA, or RSUA applied 12-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c. or JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-122.5 (Lim. 9)				

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		Adher	ed Assemblies ov	er Cementitious W	ood Fiber Dec	k (New or Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
CW-A-2	Min. 1.5-inch ENRGY 3	RSUA applied 12-inch o.c.	OPTIONAL SECUROCK	<i>RSUA, OSFA,</i> or <i>2-Part UIA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	<i>JM TPO:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-135 (Lim. 9)
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	<i>OSFA</i> applied 12-inch o.c.	SECUROCK	<i>RSUA, OSFA,</i> or <i>2-Part UIA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	<i>JM TPO:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> 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	<i>JM TPO</i> : JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB</i> : JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-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: JM TPO Water Based Membrane Adhesive applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ² or RSUA applied 12-inch o.c.	-157.5 (Lim. 9)
CW-A-9	JM Invinsa	RSUA applied 12-inch o.c.	-	-	JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-160 (Lim. 9)



		Adher	ed Assemblies ov	er Cementitious W	lood 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-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)

		Ass	semblies with All	Layers Adhered ov	er 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-1	Min. 1.5-inch E3 (no FR)	<i>2-Part UIA</i> applied 12-inch o.c.	-	-	JM TPO or JM TPO FB	<i>JM TPO: JM TPO:</i> JM TPO Water Based Membrane Adhesive applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-75 (Lim. 9)
G-A-2	Min. 1.5-inch E3 (no FR)	2 <i>-Part UIA</i> applied 12-inch o.c.	JM Invinsa	<i>2-Part UIA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO FB: RSUA applied 12-inch o.c. or JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-75 (Lim. 9)
G-A-3	Min. 1.5-inch <i>E</i> 3 (no FR)	2 <i>-Part UIA</i> applied 12-inch o.c.	JM Invinsa	2-Part UIA applied 12-inch o.c.	JM TPO SA	Self-adhered	-75 (Lim. 9)
G-A-4	Min. 1.5-inch E3 (no FR)	<i>2-Part UIA</i> applied 12-inch o.c.	SECUROCK	RSUA or 2-Part UIA applied 12- inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or RSUA applied 12-inch o.c.	-75 (Lim. 9)

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		Ass	semblies with All	Layers Adhered ov	er 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-5	Min. 1.5-inch <i>E</i> 3 (no FR)	2 <i>-Part UIA</i> 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-6	Min. 1.5-inch ENRGY 3	OSFA applied 12- inch o.c.	-	JM TPO or JM TPO FB		<i>JM TPO: JM TPO:</i> JM TPO Water Based Membrane Adhesive applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-77.5 (Lim. 9)
G-A-7	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: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO FB: RSUA applied 12-inch o.c. or JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-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 SA	Self-adhered	-77.5 (Lim. 9)
G-A-9	OPTIONAL Min. 1.5-inch ENRGY 3	OSFA applied 12- inch o.c.	SECUROCK	<i>RSUA</i> or <i>OSFA</i> applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or RSUA applied 12-inch o.c.	-77.5 (Lim. 9)
G-A-10	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-11	-	-	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-85 (Lim. 9)
G-A-12	Min. 1.5-inch E3 (no FR)	2 <i>-Part UIA</i> applied 1 2-inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: JM TPO: JM TPO Water Based Membrane Adhesive applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-90 (Lim. 9)

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		Ass	semblies with All	Layers Adhered ov	er Gypsum Deo	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-13	JM Invinsa	OSFA applied 12- inch o.c.	-	-	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO FB: RSUA applied 12-inch o.c. or JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-92.5 (Lim. 9)
G-A-14	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	OPTIONAL Min. 1.5-inch E3 (no FR)	Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²		-112.5 (Lim. 9)	
G-A-15	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	UIA at 12-inch o.c.	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	UIA at 12-inch o.c.	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-195 (Lim. 9)
G-A-16	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	SECUROCK	2-Part UIA, OSFA, or RSUA at 12-inch o.c.	JM TPO SA	Self-adhered	-112.5 (Lim. 9)
G-A-17	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	SECUROCK	2-Part UIA, OSFA, or RSUA at 12-inch o.c. JM TPO or JM TPO FB JM TPO FB JM TPO FB JM TPO FB: JM TPO Water Based Membrane Applied 0.59-0.77 gal/100ft ² or JM LVOC I Adhesive (TPO & EPDM) applied 0.83 g or JM TPO FB: JM TPO Water Based Membrane		JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-112.5 (Lim. 9)
G-A-18	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	INVINSA	2-Part UIA, OSFA, or RSUA at 12-inch o.c.	JM TPO	JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-112.5 (Lim. 9)
G-A-19	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	INVINSA	2-Part UIA, OSFA, or RSUA at 12-inch o.c.	JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.56-0.71 gal/100ft ²	-112.5 (Lim. 9)
G-A-20	-	-	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-155 (Lim. 9)
G-A-21	Min. 1.5-inch <i>E</i> 3 (no FR)	ICP Adhesive CR-20 applied 12-inch o.c.	OPTIONAL Min. 1.5-inch E3 (no FR)	ICP Adhesive CR-20 applied 12-inch o.c.	JM TPO	JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-172.5 (Lim. 9)
G-A-22	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	ICP Adhesive CR-20 applied 12-inch o.c.	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	ICP Adhesive CR-20 applied 12-inch o.c.	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-195 (Lim. 9)

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	Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)										
System No.	Base Sheet or InsulationBase Sheet or InsulationTop InsulationTop InsulationAttachmentTop InsulationAttachment		Membrane	brane Membrane Attachment							
G-A-23	Min. 1.5-inch <i>E</i> 3 (no FR)	ICP Adhesive CR-20 applied 12-inch o.c.	OPTIONAL Min. 1.5-inch E3 (no FR)	ICP Adhesive CR-20 applied 12-inch o.c.	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); applied 0.55 gal/100ft ²	-244 (Lim. 9)				

	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	Fully adhered in ASTM D 312, Type IV hot asphalt	-52.5 (Lim. 7)				

	Adhered Lightw	eight Concrete As	semblies 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	RSUA ribbons spaced 12- inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) Applied 0.83 gal/100ft ² or JM TPO Water Based Adhesive applied 0.63-0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive applied 0.59- 0.77 gal/100ft2	-77.5 (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 ribbons spaced 12- inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)

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	Adhered Lightw	eight Concrete As	semblies over Concrete	Deck (New or E	xisting)	-
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
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> ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2	-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> ribbons spaced 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	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) Applied 0.83 gal/100ft ² or JM TPO Water Based Adhesive applied 0.63-0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive applied 0.59- 0.77 gal/100ft2	-80 (Lim. 9)
LC-A-6	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 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 ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2	-80 (Lim. 9)

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	Adhered Lightw	eight Concrete As	semblies over Concrete	Deck (New or E	xisting)	•
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	<i>MDP</i> (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 ribbons spaced 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. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) Applied 0.83 gal/100ft ² or JM TPO Water Based Adhesive applied 0.63-0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive applied 0.59- 0.77 gal/100ft2	-130 (Lim. 9)
LC-A-11	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c	JM TPO SA	Self-adhered	-130 (Lim. 9)
LC-A-12	Min. 310 psi Elastizell with Zell-Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59- 0.77 gal/100ft2	-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 ribbons spaced 12-inch o.c.	JM TPO SA	Self-adhered	-130 (Lim. 9)
LC-A-14	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 12-inch o.c.	-147.5 (Lim. 9)

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	Adhered Lightw	eight Concrete As	semblies over Concrete	Deck (New or E	xisting)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
LC-A-15	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-16	Min. 375 psi Concrecel	-	-	JM TPO FB	RSUA applied 6-inch o.c.	-172.5 (Lim. 9)
LC-A-17	Min. 375 psi Concrecel	-	-	JM TPO	JM TPO Membrane Adhesive (Low VOC) applied 1.5-2 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM)	-257.5 (Lim. 9)
LC-A-18	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-19	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 Light	weight Concrete A	ssemblies over Concrete L	Deck (New, Existi	ng, 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	-	-	ЈМ ТРО	Attached in-lap 6-inch o.c. with JM All Purpose Fasteners and High Load Plates; Fastener rows max. 90-inch o.c.	-67.5 (Lim. 7)

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This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



	Induction Welded Lightweight Concrete Assemblies over Concrete 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 JM All Purpose Fasteners secured 6- inch o.c. in rows spaced 96- inch o.c.	-60 (Lim. 7)				

		Adhered Light	weight Concrete A	ssemblies over Steel Deck	(New or Existing	1)	
System No.	Deck Detail	LWIC	Insulation/Cove r 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	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	RSUA ribbons spaced 12- inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) Applied 0.83 gal/100ft ² or JM TPO Water Based Adhesive applied 0.63- 0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive applied 0.59-0.77 gal/100ft2	-77.5 (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 ribbons spaced 12- inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9
LS-A-4	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 <i>RSUA</i> ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2	-77.5 (Lim. 9)

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		Adhered Light	weight Concrete A	ssemblies over Steel Deck	(New or Existing)	
System No.	Deck Detail	LWIC	Insulation/Cove r Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
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 <i>RSUA</i> ribbons spaced 12-inch o.c.	JM TPO SA	Self-adhered	-77.5 (Lim. 9)
LS-A-6	G33	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) Applied 0.83 gal/100ft ² or JM TPO Water Based Adhesive applied 0.63- 0.71 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.55 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive applied 0.59-0.77 gal/100ft2	-80 (Lim. 9)
LS-A-7	G33	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LS-A-8	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 ribbons spaced 12-inch o.c.	JM TPO or JM TPO FB	JM TPO: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2	-80 (Lim. 9)
LS-A-9	G33	Min. 300 psi <i>LWIC</i>	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM TPO SA	Self-adhered	-80 (Lim. 9)
LS-A-10	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)

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		Adhered Lightv	weight Concrete A	ssemblies over Steel Deck	(New or Existing	1)	
System No.	Deck Detail	LWIC	Insulation/Cove r Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-11	G80, P, L5, S15	Min. 250 psi Elastizell with Zell- Crete Fibers	-	-	ЈМ ТРО	JM TPO Membrane Adhesive (Low VOC) applied at rate of 90 ft ² /gal, half applied to LWIC and half to underside of membrane or JM LVOC Membrane Adhesive (TPO & EPDM)	-97.5 (Lim. 9)
LS-A-12	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: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2 or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft2 or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft2	-130 (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 SA	Self-adhered	-130 (Lim. 9)
LS-A-14	G33	Min. 200 psi Elastizell with Zell- Crete Fibers	-	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate	-180 (Lim. 9; HVHZ only)
LS-A-15	G33	Min. 150 psi <i>LWIC</i>	-	-	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate	-265 (Lim. 9; HVHZ only)

	Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet	Base Sheet Attachement	Membrane	Membrane Attachment	<i>MDP</i> (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	Fully adhered in ASTM D 312 hot asphalt	-45 (Lim. 7)			

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APPENDIX C – APPROVED ASSEMBLIES FOR JM TPO SINGLE-PLY MEMBRANES

	Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover)										
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)				
LS-M-1	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)
R-A-2	Concrete Deck	OPTIONAL INSULATION under Min. 1.5-inch E3	UltraFast Fasteners and Plates (Square) or UltraFast Fasteners and 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	UltraFast Fasteners and Plates (Square) or UltraFast Fasteners and 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>E3</i> (no FR)	2-Part UIA at 12-inch o.c.	JM TPO HFB	ASTM D 312 Type IV Asphalt	-217.5 (Lim. 9)

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			Mech	nanically Fastened I	Recover Assemblies	5		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (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	Preliminarily Secured	ЈМ ТРО	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates for <i>Steel</i> <i>Deck</i> or JM All Purpose Fasteners and JM High Load Plus Plates for <i>Concrete Deck</i> ; Fastener rows max. 114-inch o.c.	-30 (Lim. 7; Non- HVHZ)
R-M-2	Steel Deck (G33) 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 (Min. 60 mil)	Attached in-lap 12-inch o.c. with <i>HL Fastener & Plates</i> ; 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 <i>Cover Board</i>	Preliminarily Secured	ЈМ ТРО	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 <i>E3</i> or <i>Cover Board</i>	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)
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	Preliminarily Secured	ЈМ ТРО	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)
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 E3 or Cover Board	Preliminarily Secured	JM TPO	Attached in-lap 12-inch o.c. with High Load Fasteners and JM High Load Plus Plates for <i>Steel</i> <i>Deck</i> or JM All Purpose Fasteners and JM High Load Plus Plates for <i>Concrete Deck</i> ; 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	Preliminarily Secured	JM TPO	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	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates;</i> Fastener rows max. 114-inch o.c.	-45 (Lim. 7)

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			Mech	nanically Fastened I	Recover Assemblies			
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-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	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with <i>Extra HL Fasteners & Plate</i> s; 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	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates;</i> 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 <i>E3</i> or <i>Cover Board</i>	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates</i> ; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
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	Preliminarily Secured	JM TPO	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 54-inch o.c.	-97.5 (Lim. 7)

	Induction Welded Recover Assemblies											
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)				
R-W-1	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	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)				

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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-2	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	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	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 8 per 4- ft x 8-ft board (1 fastener per 4.0-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)				
R-W-4	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. 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)				
R-W-5	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-6	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	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-7	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-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-75 (Lim. 7)				
R-W-8	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-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)				
R-W-9	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)				

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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-10	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	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)					

		As	semblies with	Adhered Membr	anes over Ins	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-1	G33	-	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Fesco Foam	<i>UltraFast Fasteners</i> <i>and Plates</i> secured 1 fastener per 5.3ft ²	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM), JM TPO Membrane Adhesive (Low VOC), or JM LVOC Membrane Adhesive (TPO & EPDM)	-37.5 (Lim. 7; Non- HVHZ)
S-AM-2	G33	-	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	<i>UltraFast Fasteners</i> <i>and Plates</i> secured 1 fastener per 5.3ft ²	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM), JM TPO Water Based Membrane Adhesive, JM TPO Membrane Adhesive (Low VOC), or JM LVOC Membrane Adhesive (TPO & EPDM)	-45 (Lim. 7; Non- HVHZ)
S-AM-3	G33	-	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 2-inch Invinsa Foam	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 5.3ft ²	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)
S-AM-4	G33	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375- inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO or JM TPO FB	<i>JM TPO</i> : JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or <i>JM TPO FB</i> : JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-45 (Lim. 7; Non- HVHZ)
S-AM-5	G33	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.375- inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 2.67ft ²	JM TPO SA	Self-adhered	-45 (Lim. 7; Non- HVHZ)

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		As	semblies with	Adhered Membr	anes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-6	G33	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 4.0ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM) applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-45 (Lim. 9)
S-AM-7	G33	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 4.0ft ²	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-8	G33	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 2.0ft ²	-		JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83 gal/100ft ² on membrane and substrate or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-45 (Lim. 9)
S-AM-9	G33	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 2.0ft ²	-	-	JM TPO SA	Self-adhered	-45 (Lim. 9)
S-AM-10	G33	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 2.0ft ²	RetroPlus	<i>RSUA</i> or <i>2-Part UIA;</i> applied 12-inch o.c	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM); Applied 1.67 gal/100ft ²	-45 (Lim. 9)

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		As	semblies with	Adhered Membr	anes over Ins	ulated Steel Deck (N	ew, Existing,	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-11	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners and 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	<i>JM TPO:</i> JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-45 (Lim. 7)
S-AM-12	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 2-inch ENRGY 3	UltraFast Fasteners and 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)
S-AM-13	G33, F1, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	<i>UltraFast Fasteners and Plates (Square)</i> secured 1 fastener per 1.33ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-52.5 (Lim. 7)
S-AM-14	G33, F1, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-15	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 1.33ft ²	SECUROCK	<i>RSUA</i> or <i>2-Part UIA;</i> Applied 12-inch o.c.	JM TPO or JM TPO FB	<i>JM TPO:</i> JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB:</i> JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ² or <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)

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			semblies with	Adhered Membr	anes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-16	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 1.33ft ²	SECUROCK	<i>RSUA</i> or <i>2-Part UIA;</i> Applied 12-inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-17	G40, P, L6, S20	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.45ft ²	JM Invinsa	RSUA or 2-Part UIA ribbons spaced 12- inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-52.5 (Lim. 7)
S-AM-18	G40, P, L6, S20	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners & Plates secured at a rate of 1 fastener per 1.45ft ²	JM Invinsa	RSUA or 2-Part UIA ribbons spaced 12- inch o.c.	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-19	G33, P, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.78ft ²	JM TPO	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-52.5 (Lim. 7)
S-AM-20	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 2.67ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-52.5 (Lim. 7)
S-AM-21	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners</i> <i>and Plates</i> secured 1 fastener per 2.67ft ²	JM TPO SA	Self-adhered	-52.5 (Lim. 7)
S-AM-22	G33, F1, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and 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)

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		As	semblies with	Adhered Membr	anes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	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 INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-24	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and 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-25	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	UltraFast Fasteners and Plates secured 1 fastener per 1.33ft ²	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-26	G33, F2, L6, S18	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners and Plates secured 1 fastener per 1.78ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-27	G33, F1, L6, S30	-	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 TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-60 (Lim. 7)
S-AM-28	G33, F1, L6, S30	-	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 TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-29	G33, F2W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	<i>UltraFast Fasteners and Plates (Square)</i> secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	JM TPO: JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or JM TPO FB: JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-60 (Lim. 7)

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		As	semblies with	Adhered Membr	anes over Insu	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
S-AM-30	G80, F1W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	<i>UltraFast Fasteners and Plates (Square)</i> secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	<i>JM TPO</i> : JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.83-1.10 gal/100ft ² or JM LVOC Membrane Adhesive (TPO & EPDM) applied 0.83 gal/100ft ² or <i>JM TPO FB</i> : JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-60 (Lim. 7)
S-AM-31	G33, F2W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO HFB	ASTM D 312 Type IV Asphalt	-60 (Lim. 7)
S-AM-32	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners and Plates secured 1 fastener per 1.78ft ²	ЈМ ТРО	JM LVOC Membrane Adhesive (TPO & EPDM) or JM Membrane Bonding Adhesive (TPO & EPDM); Applied 0.55 gal/100ft ²	-60 (Lim. 7)
S-AM-33	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.78ft ²	JM TPO SA	Self-adhered	-60 (Lim. 7)
S-AM-34	G33, F2W, L6, S18	-	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and Plates secured 1 fastener per 1ft ²	SECUROCK or JM Invinsa	<i>RSUA</i> or <i>2-Part UIA;</i> Applied 6-inch o.c.	JM TPO FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 7)
S-AM-35	L6, G80, F1, S30	-	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 or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-67.5 (Lim. 7)
S-AM-36	L6, G80, F1, S30	-	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)

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		As	semblies with	Adhered Memb	anes over Insi	ulated Steel Deck (N	ew, Existing, o	or Recover)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-37	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 2.0ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-67.5 (Lim. 7)
S-AM-38	G33, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 2.0ft ²	JM TPO SA	Self-adhered	-67.5 (Lim. 7)
S-AM-39	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-82.5 (Lim. 7)
S-AM-40	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.0ft ²	JM TPO SA	Self-adhered	-82.5 (Lim. 7)
S-AM-41	G80, F1W, L6, S24	Min. 0.5-inch DEXcell FA; UltraFast Fasteners and 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	<i>RSUA</i> or <i>2-Part UIA;</i> 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-42	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	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.0ft ²	JM TPO FB	RSUA applied 4-inch o.c.	-82.5 (Lim. 7)

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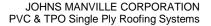
	Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)	
S-AM-43	G80, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.33ft ²	ЈМ ТРО	JM Membrane Bonding Adhesive (TPO & EPDM) or JM TPO Membrane Adhesive (Low VOC) applied 0.83 gal/100ft ² or JM TPO Water Based Membrane Adhesive; Applied 0.63-0.83 gal/100ft ²	-105 (Lim. 7)	
S-AM-44	G80, F2, L6, S24	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.33ft ²	JM TPO SA	Self-adhered	-105 (Lim. 7)	
S-AM-45	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	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.0ft ²	JM TPO FB	RSUA applied 4-inch o.c.	-142.5 (Lim. 7)	
S-AM-46	G80, F1W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO or JM TPO FB	JM TPO Water Based Membrane Adhesive; Applied 0.59-0.77 gal/100ft ²	-150 (Lim. 7)	
S-AM-47	G80, F1W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	Min. 0.5-inch SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM TPO SA	Self-adhered	-150 (Lim. 7)	

	Mechanically Fastened 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-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	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, 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 <i>HL Fastener & Plates</i> ; Fastener rows max. 90-inch o.c.	-37.5 (Lim. 7; Non- HVHZ)			

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			Mechanically Fastened	Assemblies over S	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	<i>MDP</i> (psf)
S-M-3	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-4	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 12-inch o.c. with Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-5	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 <i>HL Fasteners & Plates</i> ; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
S-M-6	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 Extra HL Fasteners & Plates; Fastener rows max. 114-inch o.c.	-52.5 (Lim. 7)
S-M-7	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-Iap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 90-inch o.c.	-60 (Lim. 7)
S-M-8	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 <i>HL Fasteners & Plates</i> ; Fastener rows max. 114-inch o.c.	-60 (Lim. 7)
S-M-9	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-Iap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 90-inch o.c.	-75 (Lim. 7)
S-M-10	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-Iap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 54-inch o.c.	-97.5 (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	OPTIONAL INSULATION under min. 1-inch E3	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 (1 fastener per 4.0-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-45 (Lim. 7)			

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			Induction Welde	d Assemblies ove	er Steel Deck (New, Existing, or Re	ecover)		
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
S-W-2	G33, F2, L6, S18	OPTIONAL INSULATION under min. 1.5-inch E3	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 (1 fastener per 4.0-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-67.5 (Lim. 7)
S-W-3	G33, P, L6	OPTIONAL INSULATION under min. 1-inch E3	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)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-75 (Lim. 7)
S-W-4	G33, F2, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	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-5	G80, F2, L6, S24	OPTIONAL INSULATION under min. 1.5-inch E3	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-6	G33, F2W, L6	OPTIONAL INSULATION under min. 1.5-inch E3	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-ft ²)	JM TPO (Min. 60 mil)	Induction welded to JM TPO RhinoPlates	-90 (Lim. 7)

	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, 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 <i>HL Fasteners & Plates</i> ; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)		

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	-	-	Induct	ion Welded Asser	nblies over <i>Woo</i>	d Deck (New or Existing)			-
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
W-W-1	T7/160 or T15/32P, L24	As required	OPTIONAL INSULATION	<i>Preliminarily</i> Secured or secured with top layer	Min. 0.5-inch E3 or Cover Board	Min. 2-inch JM All Purpose Fastener and JM TPO RhinoPlates 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	T7/160 or T15/32P, L24	As required	OPTIONAL INSULATION	<i>Preliminarily</i> <i>Secured</i> or secured with top layer	OPTIONAL Cover Board	Min. 2.25-inch JM All Purpose Fastener and JM TPO RhinoPlates 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-3	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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)
W-W-4	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	<i>Preliminarily</i> <i>Secured</i> or secured with top layer	OPTIONAL 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)
W-W-5	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL 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)

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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 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-#, 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)
<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)
<u>LC-M-#</u>	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
<u>W-AM-#</u>	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 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-1	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6-inch o.c.	Min. 1.5-inch ENRGY 3 applied in <i>RSUA</i> at 12-inch o.c.	DynaBase applied in ADCO Millennium Hurricane Force Membrane Adhesive at 6- 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 Existi	ng)	
System No.	Vapor Barrier	Base Insulation	Top Insulation or Base Ply	Membrane	Membrane Attachment	MDP (psf)
C-A-2	OPTIONAL JM Vapor Barrier SA applied over deck primed with JM SA Primer Low VOC	Min. 1.5-inch <i>E</i> 3 applied in <i>RSUA</i> or <i>2-Part UIA;</i> Applied 12-inch o.c.	OPTIONAL SECUROCK, RetroPlus, or JM Invinsa applied in RSUA or 2-Part UIA; Applied 12-inch o.c.	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)
C-A-3	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> applied in <i>RSUA;</i> Applied 12-inch o.c.	SECUROCK applied in OSFA, RSUA, or 2-Part UIA at 12-inch o.c. followed by OPTIONAL DynaBase HW	JM PVC FB	RSUA applied 12-inch o.c.	-67.5 (Lim. 9)
C-A-4	-	Min. 1.5-inch E3 (no FR) adhered with UIA,2-Part UIA, OSFA, or RSUA at 12-inch o.c.	OPTIONAL JM Invinsa adhered with <i>UIA</i> or 2 <i>-Part</i> <i>UIA</i> at 12-inch o.c.	JM PVC FB	JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ² or ASTM D 312 Type IV Asphalt	-105 (Lim. 9)
C-A-5	-	Min. 1.5-inch <i>E</i> 3 (no FR) adhered with <i>UIA</i> , 2- <i>Part UIA,</i> <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c.	OPTIONAL JM Invinsa adhered with <i>UIA</i> or 2-Part UIA at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-105 (Lim. 9)
C-A-6	-	Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c.	JM Invinsa adhered with UIA at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)
C-A-7	-	Min. 1.5-inch <i>E3</i> (no FR) applied in <i>RSUA</i> , <i>OSFA</i> or 2- <i>Part UIA</i> ;Applied 12-inch o.c.	-	JM PVC FB	RSUA or 2-Part UIA applied 4-inch o.c.	-112.5 (Lim 9)
C-A-8	-	Min. 1.5-inch <i>E3</i> (no FR), min. 1-inch Fesco, min. 1.5-inch Fesco Foam, or Retro-Fit adhered with ASTM D 312 Type asphalt	-	JM PVC FB	ASTM D 312 Type IV Asphalt	-150 (Lim. 9)
C-A-9	-	Min. 1.5-inch <i>E3</i> (no FR) adhered with 2- <i>Part UIA,</i> <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. or ASTM D 312 Type IV Asphalt	-	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ² with <i>JM PVC</i> only or ASTM D 312 Type IV Asphalt with <i>JM PVC FB</i> only	-217.5 (Lim. 9)
C-A-10	-	-	-	JM PVC FB	JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ²	-217.5 (Lim. 9)
C-A-11	DynaBase HW	SECUROCK applied in RSUA at 12-inch o.c.	DynaBase HW	JM PVC FB	RSUA applied at 12-inch o.c.	-217.5 (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-12	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF applied in <i>RSUA</i> at 12-inch o.c.	SECUROCK applied in RSUA at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-292.5 (Lim. 9)				
C-A-13	-	<i>DEXcell CB</i> or <i>DEXcell FA</i> applied in <i>2-Part UIA</i> or OlyBond 500 at 12-inch o.c.	-	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC) with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based) with <i>JM PVC FB</i> only	-390 (Lim. 9)				

		Assemblies with A	dhered Membranes o	over Insulated Concrete De	ck (New, Existi	ng, or <i>Recover</i>)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
C-AM-1	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with <i>JM PVC FB</i> only	-52.5 (Lim. 7)
C-AM-2	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	AP Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)
C-AM-3	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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 FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1 gal/100ft ²	-52.5 (Lim. 7)
C-AM-4	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	AP Fasteners and 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: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)
C-AM-5	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	AP Fasteners and Plates secured 1 fastener per 1.78ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)

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		Assemblies with A	dhered Membranes o	over Insulated Concrete De	ck (New, Existi	ng, or <i>Recover</i>)	-
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-6	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with <i>JM PVC FB</i> only	-60 (Lim. 7)
C-AM-7	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	<i>UltraFast Fasteners</i> & <i>Plates</i> 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: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-60 (Lim. 7)
C-AM-8	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	<i>UltraFast Fasteners</i> & <i>Plates</i> 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 FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with JM PVC only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with JM PVC FB only	-60 (Lim. 7)
C-AM-9	OPTIONAL INSULATION under min. 1.5-inch ENRGY 3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.78ft ²	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-60 (Lim. 7)
C-AM-10	OPTIONAL INSULATION under min. 1.5-inch E3	<i>UltraFast Fasteners</i> <i>and Plates</i> 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-11	OPTIONAL INSULATION under min. 1.5-inch E3	<i>UltraFast Fasteners</i> <i>and Plates</i> secured 1 fastener per 1ft ²	SECUROCK	OSFA, RSUA or 2-Part UIA; Applied 6-inch o.c.	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-67.5 (Lim. 7)

	Mechanically Fastened Assemblies over Concrete Deck (New or Existing)										
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (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)				
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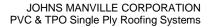


		Mechani	cally Fastened Asse	mblies over Concrete	Deck (New or I	Existing)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
C-M-2	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	JM PVC	Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates</i> ; 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	<i>JM PVC</i> (Min. 60 mil)	Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	-60 (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 PVC SD Plus	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; 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)

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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	<i>MDP</i> (psf)
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	<i>JM PVC</i> (Min. 60 mil)	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c.	-75 (Lim. 7)

		Induc	ction Welded Asse	emblies over Concrete Deck (Ne	ew, Existing, o	r Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
C-W-1	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD Plus</i> (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-3	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	<i>JM PVC SD Plus</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)

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		Indu	ction Welded Asse	emblies over Concrete Deck (Ne	ew, Existing, o	r Recover)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
C-W-4	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 (1 fastener per 4.0-ft ²)	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
C-W-5	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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-6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD Plus</i> (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-7	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-ft ²)	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-90 (Lim. 7)

			Adhered Assembl	ies over CWF Deck	(New or Existin	ng)	
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
CW-A-1	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12- inch o.c.	JM Invinsa	OSFA or 2-Part UIA applied 12- inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)
CW-A-2	Min. 475 psi Celcore MF with HS Rheology Admixture installed	Poured-in-place	-	-	Base Ply: JM DynaBase Membrane: <i>JM PVC FB</i>	Base Ply: ADCO Millennium Hurricane Force Membrane Adhesive applied 12" o.c. Membrane: <i>RSUA</i> applied 12" o.c.	-117.5 (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	JM PVC Membrane Adhesive (Low VOC)	-140 (Lim. 9)
CW-A-4	Min. 1-inch ENRGY 3	OSFA applied 12- inch o.c.	-	-	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-157.5 (Lim. 9)

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	Adhered 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-A-5	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-6	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>E3</i> (no FR)	2-Part UIA applied 12-inch o.c.	-	-	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ²	-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	2-Part UIA applied 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-60 (Lim. 9)
G-A-4	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	JM PVC Membrane Adhesive (Low VOC)	-60 (Lim. 9)
G-A-5	Min. 1-inch ENRGY 3	OSFA applied 12- inch o.c.	-	-	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ²	-77.5 (Lim. 9)

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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-6	Min. 1-inch ENRGY 3	OSFA applied 12- inch o.c.	JM Invinsa	OSFA applied 12- inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-77.5 (Lim. 9)
G-A-7	OPTIONAL Min. 1-inch ENRGY 3	OSFA applied 12- inch o.c.	SECUROCK	RSUA or OSFA applied 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-77.5 (Lim. 9)
G-A-8	JM Invinsa	OSFA applied 12- inch o.c.	-	-	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-92.5 (Lim. 9)
G-A-9	Min. 1.5-inch <i>E</i> 3 (no FR)	UIA at 12-inch o.c.	JM Invinsa	UIA at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)

	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	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 Ligh	tweight Concrete A	ssemblies over Concrete D	<i>Deck</i> (New or E	Existing)	
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)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or E	Existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
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 ribbons spaced 12- inch o.c.	JM PVC JM PVC FB	JM PVC: JM PVC Membrane Adhesive (Low VOC) or JM PVC FB: <i>RSUA</i> applied 4-inch o.c.	-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> ribbons spaced 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); or JM PVC Membrane Adhesive (Water Based) <i>a</i> pplied 0.67 gal/100ft ²	-77.5 (Lim. 9)
LC-A-4	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c.	JM PVC JM PVC FB	JM PVC Membrane Adhesive (Low VOC) or JM PVC FB: 2-Part UIA applied 4- inch o.c.	-80 (Lim. 9)
LC-A-5	Min. 300 psi <i>LWIC</i>	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 PVC	JM PVC Membrane Adhesive (Low VOC); or JM PVC Membrane Adhesive (Water Based) applied 0.67 gal/100ft ²	-80 (Lim. 9)
LC-A-6	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)
LC-A-7	Min. 330 psi <i>LWIC</i>	-	-	JM PVC FB	JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ²	-90 (Lim. 9)
LC-A-8	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-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 PVC FB	RSUA applied 12-inch o.c.	-102.5 (Lim. 9)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or I	Existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-10	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch <i>E</i> 3 (no FR) Top Layer: JM Invinsa	Base Layer: UIA at 6-inch o.c. or 2-Part UIA at 12-inch o.c. Top Layer: UIA at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)
LC-A-11	Min. 250 Elastizell with Zell-Crete Fibers	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-117.5 (Lim. 9)
LC-A-12	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-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	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-130 (Lim. 9)
LC-A-14	Min. 375 psi Concrecel	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-147.5 (Lim. 9)
LC-A-15	Min. 550 psi Elastizell with Zell-Fibers	-	-	Base Ply: JM DynaBase Membrane: <i>JM PVC FB</i>	Base Ply: ADCO Millennium Hurricane Force Membrane Adhesive applied 12" o.c. Membrane: <i>RSUA</i> applied 12" o.c.	-167.5 (Lim. 9)
LC-A-16	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-17	Min. 375 psi Concrecel	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-172.5 (Lim. 9)
LC-A-18	Min. 550 psi Elastizell with Zell-Fibers	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-177.5 (Lim. 9)
LC-A-19	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW	-	-	Base Ply: DynaBase Membrane: <i>JM PVC FB</i>	Base Ply: ADCO Millennium Hurricane Force Membrane Adhesive applied 6" o.c. Membrane: <i>RSUA</i> applied 6" o.c.	-192.5 (Lim. 9)
LC-A-20	Min. 262 psi <i>LWIC</i>	SECUROCK	2-Part UIA ribbons spaced 12-inch o.c	JM PVC	JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-210 (Lim. 9; Non- HVHZ)

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	Adhered Ligh	tweight Concrete A	ssemblies over Concrete L	Deck (New or E	Existing)	
System No.	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-21	Min. 262 psi <i>LWIC</i>	SECUROCK	2-Part UIA ribbons spaced 12-inch o.c	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch adhered Membrane: <i>RSUA</i> applied 12" o.c.	-210 (Lim. 9; Non- HVHZ)
LC-A-22	Min. 550 psi Elastizell with Zell-Fibers	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-225 (Lim. 9)
LC-A-23	Min. 550 psi Elastizell with Zell-Fibers	-		Base Ply: JM DynaBase	Base Ply: ADCO Millennium Hurricane Force Membrane Adhesive applied 6" o.c.	-192.5 (Lim. 9)
				Membrane: JM PVC FB	Membrane: RSUA applied 6" o.c.	
LC-A-24	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-25	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-26	Min. 250 Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-290 (Lim. 9)
LC-A-27	Min. 375 psi Concrecel	-	-	JM PVC FB	MBR Low VOC Membrane Adhesive applied 2-2.5 gal/100ft ²	-342.5 (Lim. 9)
LC-A-28	Celcore MF with HS Rheology Admixture (min. 49 pcf wet cast density)	-	-	JM PVC FB	JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ²	-367.5 (Lim. 9)
LC-A-29	Min. 370 psi Concrecel (No EPS Board)	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-375 (Lim. 9)
LC-A-30	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-31	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-32	Min. 370 psi Concrecel (No EPS board)	-	-	JM PVC FB	RSUA applied 6-inch o.c.	-480 (Lim. 9)
LC-A-33	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)

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	Mechanically Attached Ligh	tweight Concrete	Assemblies over Concrete I	Deck (New, Existi	ing, or <i>Recover</i>)	
System No.	LWIC	LWIC 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	ssemblies over Steel Deck	(New or Existing	a)	_
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 ribbons spaced 12- inch o.c.	JM PVC JM PVC FB	JM PVC: JM PVC Membrane Adhesive (Low VOC) or JM PVC FB: <i>RSUA</i> applied 4- inch o.c.	-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 <i>RSUA</i> ribbons spaced 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); or JM PVC Membrane Adhesive (Water Based) <i>a</i> pplied 0.67 gal/100ft ²	-77.5 (Lim. 9)
LS-A-6	G33	Min. 300 psi <i>LWIC</i>	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c.	JM PVC JM PVC FB	JM PVC Membrane Adhesive (Low VOC) or JM PVC FB: 2-Part UIA applied 4-inch o.c.	-80 (Lim. 9)
LS-A-7	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 ribbons spaced 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); or JM PVC Membrane Adhesive (Water Based) <i>a</i> pplied 0.67 gal/100ft ²	-80 (Lim. 9)
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		Adhered Light	weight Concrete A	ssemblies over Steel Deck	(New or Existing	a)	
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-8	G80, P, L5, S12	Min. 370 psi Concrecel	-	-	JM PVC FB	RSUA applied 12-inch o.c.	-97.5 (Lim. 9)
LS-A-9	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-10	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-11	G33	Min. 310 psi Elastizell with Zell- Crete Fibers	Min. 1.5-inch ENRGY 3	2-Part UIA ribbons spaced 12-inch o.c	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-130 (Lim. 9)
LS-A-12	G33	Min. 310 psi Elastizell with Zell- Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK	<i>2-Part UIA</i> ribbons spaced 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC)	-130 (Lim. 9)

		Mechanically Attached Lig	htweight Concrete	e Assemblies over Steel De	ck (New, Existing	g, or <i>Recover</i>)	
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 Assemblies										
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)					

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			Adhered Recover Asse	mblies		
System No.	Deck Detail	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-A-2	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and Plates (Square) or UltraFast Fasteners and Plates (Square) secured 1 fastener per 2ft ²	JM PVC FB	JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ² or ASTM D 312 Type IV Asphalt	-45 (Lim. 7)
R-A-3	Concrete Deck	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and Plates (Square) or UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.78ft ²	JM PVC FB or JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ² with <i>JM</i> <i>PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ² with <i>JM</i> <i>PVC FB</i> only or ASTM D 312 Type IV Asphalt with <i>JM</i> <i>PVC FB</i> only	-52.5 (Lim. 7)
R-A-4	BUR over <i>Concrete</i> Deck	Base Layer: Min. 1.5- inch <i>E3</i> (no FR) Top Layer: Optional JM Invinsa	Base Layer: 2- <i>Part UIA</i> at 12- inch o.c. Top Layer: 2- <i>Part UIA</i> at 12-inch o.c.	JM PVC FB or JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ² with <i>JM</i> <i>PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 1 gal/100ft ² or ASTM D 312 Type IV Asphalt with <i>JM</i> <i>PVC FB</i> only	-105 (Lim. 9)
R-A-5	BUR over <i>Concrete</i> Deck	JM Invinsa	JM MBR Bonding Adhesive	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)
R-A-6	BUR over <i>Concrete</i> Deck	Base Layer: Min. 1.5- inch <i>E</i> 3 (no FR) Top Layer: JM Invinsa	Base Layer: <i>UIA</i> at 6-inch o.c. or 2- <i>Part UIA</i> at 12-inch o.c. Top Layer: <i>UIA</i> at 12-inch o.c.	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 0.83 gal/100ft ² or JM PVC Membrane Adhesive (Water Based); Applied 0.67 gal/100ft ²	-112.5 (Lim. 9)
R-A-7	BUR over Concrete Deck	Min. 1.5-inch <i>E</i> 3 (no FR)	2-Part UIA at 12-inch o.c.	JM PVC FB or JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ² with <i>JM</i> <i>PVC</i> only or ASTM D 312 Type IV Asphalt with <i>JM</i> <i>PVC FB</i> only	-217.5 (Lim. 9)

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			Mech	nanically Fastened I	Recover Assemblie	S		
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 <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)
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 <i>E3</i> , or <i>Cover Board</i>	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>E3</i> , or <i>Cover Board</i>	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 <i>E3</i> , or <i>Cover Board</i>	Preliminarily Secured	JM PVC SD Plus	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; 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	<i>JM PVC FB</i> (min. 60 mil)	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; 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 <i>Cover Board</i>	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 <i>E3</i> , or <i>Cover Board</i>	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 <i>E3</i> , or <i>Cover Board</i>	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)

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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-1	Steel Deck (G33, L6) or Concrete Deck	OPTIONAL INSULATION	Preliminarily Secured or secured with top layer	Min. 0.5-inch <i>E3</i> , or <i>Cover Board</i>	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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)
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 E3, or Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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 <i>E3</i> , or <i>Cover Board</i>	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 120-inch o.c.	<i>JM PVC</i> (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 <i>E3</i> , or <i>Cover Board</i>	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 18-inch o.c.; Fastener rows max. 60-inch o.c.	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-45 (Lim. 7)
R-W-5	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>	Attached with 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-ft ²)	<i>JM PVC SD Plus</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)
R-W-6	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 (1 fastener per 4.0-ft ²)	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
R-W-7	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 <i>E3</i> , or <i>Cover Board</i>	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 12-inch o.c.; Fastener rows max. 60-inch o.c.	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
R-W-8	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	<i>JM PVC SD</i> <i>Plus</i> (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-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	<i>JM PVC SD</i> <i>Plus</i> (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-10	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.	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-120 (Lim. 7)

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		Asser	nblies with Adl	nered Membranes	over Insulated	Steel Deck (New, E	xisting, or <i>Rec</i>	over)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-1	G33	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	<i>UltraFast Fasteners</i> <i>and Plates</i> secured 1 fastener per 5.3ft ²	JM PVC or JM PVC FB	JM PVC: PVC Bonding Adhesive JM PVC FB: JM PVC Membrane Bonding Adhesive (Water Based)	-37.5 (Lim. 9; Non- HVHZ)
S-AM-2	G33	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	UltraFast Fasteners and Plates secured 1 fastener per 5.3ft ²	JM PVC, JM PVC FB or JM PVC SD Plus	PVC Bonding Adhesive	-45 (Lim. 7; Non- HVHZ)
S-AM-3	G33, F1, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)
S-AM-4	G33, F1, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.33ft ²	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with <i>JM PVC FB</i> only	-52.5 (Lim. 7)
S-AM-5	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and Plates secured 1 fastener per 1.33ft ²	SECUROCK	OSFA, RSUA or 2- <i>Part UIA</i> ;Applied 12-inch o.c.	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1 gal/100ft ²	-52.5 (Lim. 7)
S-AM-6	G33, F2, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and 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: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-52.5 (Lim. 7)

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		Asser	nblies with Adł	nered Membranes	s over Insulated	Steel Deck (New, E	xisting, or <i>Rec</i>	over)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-7	G33, F2, L6, S18	-	OPTIONAL INSULATION	Simultaneously secured with top layer	Min. 1.5-inch <i>E</i> 3	UltraFast Fasteners and Plates secured 1 fastener per 1.78ft ²	JM PVC FB	ASTM D 312 Type IV Asphalt	-52.5 (Lim. 7)
S-AM-8	G33, F2W, L6, S24	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and Plates (Square) secured 1 fastener per 1.00ft ²	JM PVC or JM PVC FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with <i>JM PVC FB</i> only	-60 (Lim. 7)
S-AM-9	G33, F1, L6, S30	-	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: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-60 (Lim. 7)
S-AM-10	G33, F1, L6, S30	-	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 FB	JM PVC Membrane Adhesive (Low VOC); Applied 1-1.1 gal/100ft ² with <i>JM PVC</i> only or JM PVC Membrane Adhesive (Water Based); Applied 0.8-1.2 gal/100ft ² with <i>JM PVC FB</i> only	-60 (Lim. 7)
S-AM-11	G40, P, L6, S20	-	OPTIONAL INSULATION under min. 1.5-inch E3	Simultaneously secured with top layer	SECUROCK	UltraFast Fasteners and 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)
S-AM-12	G33, F2W, L6, S18	-	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and 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)

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		Assen	nblies with Adl	hered Membranes	s over Insulated	Steel Deck (New, E	xisting, or <i>Rec</i>	over)	
System No.	Deck Detail	Thermal Barrier and Vapor Retarder	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-13	G33, F2W, L6, S18	-	OPTIONAL INSULATION under min. 1.5-inch E3	UltraFast Fasteners and Plates secured 1 fastener per 1ft ²	SECUROCK	OSFA, RSUA or 2- Part UIA; Applied 6-inch o.c.	Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i>	Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c.	-67.5 (Lim. 7)
S-AM-14	G80, F1W, L6, S24	Min. 0.5-inch DEXcell FA; UltraFast Fasteners and 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.	-82.5 (Lim. 7)
S-AM-15	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 and Plates secured 1 fastener per 1.0ft ²	<i>JM PVC FB</i> (Min. 60 mil)	RSUA applied 4-inch o.c.	-82.5 (Lim. 7)
S-AM-16	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	<i>UltraFast Fasteners and Plates</i> secured 1 fastener per 1.0ft ²	JM PVC FB	RSUA applied 4-inch o.c.	-142.5 (Lim. 7)

			Mechanically Faste	ened Assemblies o	ver Steel Deck (New, Exi	sting, or Reco	ver)	
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 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)
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Mechanically Fastened 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	<i>MDP</i> (psf)			
S-M-2	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-3	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 <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps; Fastener rows max. 54-inch o.c.	-45 (Lim. 7)			
S-M-4	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 <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps; Fastener rows max. 114-inch o.c.	-45 (Lim. 7)			
S-M-5	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 <i>HL Fasteners & Plates</i> ; Min. 5- inch wide side laps; Fastener rows max. 73-inch o.c.	-45 (Lim. 7)			
S-M-6	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 <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps; Fastener rows max. 72-inch o.c.	-45 (Lim. 7)			
S-M-7	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1.5-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC</i> (Min. 60 mil)	Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; 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-8	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-9	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 <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps; Fastener rows max. 54-inch o.c.	-60 (Lim. 7)			
S-M-10	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 <i>HL Fasteners & Plates</i> ; Min. 5- inch wide side laps; Fastener rows max. 73-inch o.c.	-60 (Lim. 7)			
S-M-11	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)			

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			Mechanically Faste	ened Assemblies ov	ver Steel Deck (New, Exi	sting, or <i>Reco</i>	ver)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-12	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-13	G80, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	<i>Preliminarily</i> <i>Secured</i> 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-14	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)
S-M-15	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-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	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-17	G80, F1, L6, S30	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC</i> (Min. 60 mil)	Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6- inch wide side laps with min. 2- inch wide heat welds; Fastener rows max. 72-inch o.c.	-75 (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, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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)					

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			Induction Wel	ded Assemblies	over Steel Deck (New, Existin	ng, or <i>Recove</i>	r)	
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	<i>MDP</i> (psf)
S-W-2	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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)
S-W-3	G33, P, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM PVC RhinoPlates in a 2-ft x 2-ft staggered grid pattern	<i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)
S-W-4	G33, F1, L6, S18	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board (1 fastener per 4.0-ft ²)	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-67.5 (Lim. 7)
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	<i>JM PVC SD</i> <i>Plus</i> (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-6	G33, F1, L6, S24	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	<i>JM PVC SD</i> <i>Plus</i> (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)
S-W-7	G33, F2W, L6	OPTIONAL INSULATION under min. 1-inch E3	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Attached with High Load Fasteners and JM PVC RhinoPlates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²)	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-90 (Lim. 7)

		Assem	blies with Adhered	I Membranes over I	nsulated Wood Deck (Ne	ew, Existing, o	r <i>Recover</i>)	
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	T19/32O, 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-ft ²)	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ²	-37.5 (Lim. 7; Non- HVHZ)
W-AM-2	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-ft ²)	JM PVC	JM PVC Membrane Adhesive (Low VOC); Applied 1.67 gal/100ft ²	-45 (Lim. 7; Non- HVHZ))

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			Mechani	cally Fastened As	semblies over	Wood Deck (New	v 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 <i>HL Fasteners & Plates</i> ; 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	T15/32P, L24, N6	As required	Min. 0.25-inch INSULATION	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Min. 2.25-inch JM All Purpose Fastener and JM PVC RhinoPlates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	<i>JM PVC</i> (Min. 60 mil)	Induction welded to JM PVC RhinoPlates	-52.5 (Lim. 7)				

END OF REPORT

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