CREEK
TECHNICAL SERVICES, LLC

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

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Issued August 19, 2023

Manufacturer: JOHNS MANVILLE CORPORATION
P.O. Box 5108
Denver, CO 80217
(303) 978-2478
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Manufacturing Plants: Pawtucket, RI
Lancaster, SC

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Single Ply Roof System
Code Edition; Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1507.13, 1515.1.1 , 1515.1.4, 1515.2.4, 1523.1.1, 1523.6.2, 1523.6.5.2.9
Properties: Wind Resistance, Physical Properties, Impact Resistance

PRODUCT DESCRIPTION

Products	Specification	Description
JM PVC-50 mil	ASTM D 4434	Nominal 50-mil thick polyvinyl chloride with DuPont™ 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™ 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 PVC SL-50 mil	ASTM D 4434	Nominal 50-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement for mechanically attached membrane applications only
JM PVC SL-60 mil	ASTM D 4434	Nominal 60-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement for mechanically attached membrane applications only
JM PVC SL-80 mil	ASTM D 4434	Nominal 80-mil thick polyvinyl chloride single-ply roof membrane with polyester scrim reinforcement for mechanically attached membrane applications only

REFERENCES

Entity	Report No.	Standard
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-026	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-027	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-028	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-029	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-030	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-031	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-032	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-033	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-034	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-035	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-036	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-037	TAS 114(D) (2011)
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Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-039	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-040	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-041	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-042	TAS 114(D) (2011)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 14-043	TAS 114(D) (2011)
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FM Approvals (TST1867)	3009502	FM 4470 (2016)
FM Approvals (TST1867)	3012321	FM 4470 (2016)
FM Approvals (TST1867)	3014692	FM 4470 (2016)
FM Approvals (TST1867)	3014751	FM 4470 (2016)
FM Approvals (TST1867)	3015444	FM 4470 (2016)
FM Approvals (TST1867)	3016629	FM 4470 (2016)
FM Approvals (TST1867)	3018579	FM 4450 (1989)
FM Approvals (TST1867)	3018807	FM 4470 (2016)
FM Approvals (TST1867)	3025168	FM 4470 (2016)
FM Approvals (TST1867)	3025170	FM 4470 (2016)
FM Approvals (TST1867)	3025245	FM 4470 (2016)
FM Approvals (TST1867)	3025881	FM 4470 (2016)
FM Approvals (TST1867)	3028040	FM 4470 (2016)
FM Approvals (TST1867)	3030259	FM 4470 (2016)
FM Approvals (TST1867)	3030351	FM 4470 (2016)
FM Approvals (TST1867)	3030383	FM 4470 (2016)
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FM Approvals (TST1867)	3033308	FM 4470 (2016)
FM Approvals (TST1867)	3035191	FM 4470 (2016)
FM Approvals (TST1867)	3035538	FM 4470 (2016)
FM Approvals (TST1867)	3037110	FM 4470 (2016)
FM Approvals (TST1867)	3037540	FM 4450 (1989)
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FM Approvals (TST1867)	3040105	FM 4470 (2016)
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FM Approvals (TST1867)	3044716	FM 4470 (2016)
FM Approvals (TST1867)	3046174	FM 4470 (2016)
FM Approvals (TST1867)	3051609	FM 4470 (2016)
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FM Approvals (TST1867)	3058201	FM 4470 (2016)
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Momentum Technologies (TST2508)	NX21J0C	ASTM D 4434 (2012)
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PRI Construction Materials Technologies (TST5878)	JMC-086-02-01	FM 4474 (2011); TAS 114(J) (2011)

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PRI Construction Materials Technologies (TST5878)	JMC-088-02-01.8	ASTM D 1876 (2008); TAS 117(A&B) (1995); TAS 114 (2011); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-088-02-01.9	ASTM D 1876 (2008); TAS 117(A&B) (1995); TAS 114 (2011); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-107-02-01 Rev 4	ASTM D 903 (1998); ASTM D 1876 (2008); ASTM D 5147 (2011a); TAS 117(A&B) (1995); TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-108-02-01	FM 4474 (2011); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-109-02-01	FM 4474 (2011); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-114-02-01	FM 4474 (2011); TAS 114 (J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-131-02-01	FM 4474 (2011); TAS 114 (D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-132-02-01	FM 4474 (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-132-02-02	FM 4474 (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-141-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-143-02-01	FM 4474 (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-162-02-01	FM 4474 (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-163-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-168-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-193-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-193-02-01A	FM 4474 (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-196-02-01	TAS 117(A&B) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-201-02-01A	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-201-02-01B	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-205-02-01	ASTM D 3746 [(1985(2015)]
PRI Construction Materials Technologies (TST5878)	JMC-209-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-225-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	JMC-242-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-245-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-246-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-267-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-277-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-01A	FM 4474(C) (1995)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-278-02-03	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-303-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-306-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-311-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-339-02-03	ASTM C 1289 (2015); ASTM E 84 (2016)
PRI Construction Materials Technologies (TST5878)	JMC-339-02-04	ASTM C 1289 (2015); ASTM E 84 (2016)
PRI Construction Materials Technologies (TST5878)	JMC-343-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-343-02-01	ASTM D 413 (1998(2017)); TAS 117(B) (1995);
PRI Construction Materials Technologies (TST5878)	JMC-353-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-353-02-02	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	JMC-354-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	JMC-360-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	410T0019	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	410T0026	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	507T0008	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	507T0019	ASTM D 1970/D 1970M (2015a)
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PRI Construction Materials Technologies (TST5878)	507T0059	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	507T0062	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	507T0095	FM 4474(B) (2011);
PRI Construction Materials Technologies (TST5878)	507T0096	FM 4474(C) (2011);
PRI Construction Materials Technologies (TST5878)	507T0112	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	507T0114	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0141	FM 4474(B) (2011); TAS 114(D) (2011);
PRI Construction Materials Technologies (TST5878)	507T0142	FM 4474(B) (2011);
PRI Construction Materials Technologies (TST5878)	507T0193	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	507T0199	TAS 114(D) (2011)
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PRI Construction Materials Technologies (TST5878)	507T0147	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0164	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0187.2	FM 4470 (2016); TAS 117(A&B) (1995)
PRI Construction Materials Technologies (TST5878)	507T0230	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0234.1	TAS 114(D) (2011); TAS 114(J) (2011);
PRI Construction Materials Technologies (TST5878)	507T0256A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0256B	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0273	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0277	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0302	FM 4474 (D)(2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	507T0303	FM 4474 (D)(2011); TAS 114(J) (2011)
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PRI Construction Materials Technologies (TST5878)	507T0320	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0326B	FM 4474(B) (2011); TAS 114(D)
PRI Construction Materials Technologies (TST5878)	507T0327	TAS 114(D)
PRI Construction Materials Technologies (TST5878)	507T0331	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	507T0339	FM 4474(D) (2011)
PRI Construction Materials Technologies (TST5878)	507T0355A.1	FM 4474 (D)(2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	507T0345B.1	FM 4474(B) (2011); TAS 114(D)
PRI Construction Materials Technologies (TST5878)	507T0345A	FM 4474(B) (2011)
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Robert J.M. Nieminen, P.E.	Compliance Letter 02/09/2017	TAS 114 (2011)
NEMO|etc (TST6049)	4a-CEL-LSWUS-01.C	FM 4474(D) (2011); TAS 114(J) (2011);
Trinity|ERD (TST6049)	J33600.08.13	TAS 110 (2000)
Trinity|ERD (TST6049)	J45020.05.13-1	TAS 114(C) (1995)
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Trinity|ERD (TST6049)	JM-SC11190.03.16	TAS 114(J) (2011)
Trinity|ERD (TST6049)	JM-SC11320.03.16	TAS 114(D) (2011)
Trinity|ERD (TST6049)	JM-SC12145.02.17	FM 4474(C) (2011)
Trinity|ERD (TST6049)	SC4910	FM 4474 (2011); TAS 114(J) (2011)
Trinity|ERD (TST6049)	SFS-SC10010.02.16-R1	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
Trinity|ERD (TST6049)	JM-SC13465.04.17	FM 4474(C) (2011)
Trinity|ERD (TST6049)	JM-SC13465.08.17	TAS 114(D) (2011)
Trinity|ERD (TST6049)	J45960.09.13	TAS 114(D) (2011)
Trinity|ERD (TST6049)	SC7565.02.15	FM 4474(D) (2011); TAS 114(J) (2011)

LIMITATIONS

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

COMPLIANCE STATEMENT

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

This item has been digitally signed and sealed by Zachary R. Priest, PE, on 8/19/2023.

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

Digitally signed by Zachary R. Priest
2023.08.19 15:49:57 -04'00'

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 (7 pages)
2) APPENDIX B – Nomenclature (6 pages)
3) APPENDIX C – Approved Assemblies for JM PVC Single-Ply Membranes (69 pages)

INSTALLATION

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

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

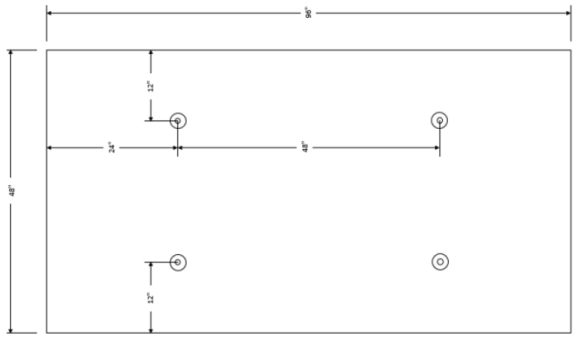
Component	Product	Installation Detail
Fasteners, Battens & Plates	JM All Purpose Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	JM APB Plates	2-inch diameter; Galvalume steel plate with reinforcing ribs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

Component	Product	Installation Detail
Fasteners, Battens & Plates (Cont'd)	SFS Intec FI-P-6.8-PVC	Min. 3-inch diameter for PVC membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane
	Trufast 3" Metal Insulation Plate	3-inch diameter round; Galvalume steel plate
	Trufast #12 Purlin Fastener	Installed into min. 16ga. steel purlins
	Trufast #12 DP Fastener	#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck;
	Trufast #14 HD Fastener	#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck
	Trufast #15 EHD Fastener	#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck;
	Trufast Fluted Concrete Nails	Concrete deck only
	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.
	Trufast VERSA-FAST fastener	Min. 2 1/4-inch length; Min. 3/4-inch penetration through wood deck
Insulation Adhesives	JM MBR Bonding Adhesive	Fully adhered at a rate of 1.5-2.0 gal/100 ft^2
	JM One-Step Foamable Adhesive	Ribbon adhered in 3/4 to 1-inch wide beads
	ICP Adhesives CR-20	
	OMG OlyBond 500	Ribbon adhered in 3/4 to 1-inch wide beads
	JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister	
	JM Two Part Urethane Insulation Adhesive or JM Two-Part UIA	
	JM Roofing System Urethane Adhesive	
	JM Urethane Insulation Adhesive	Ribbon adhered in 1/2-inch wide beads
	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft^2
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
	Georgia-Pacific DensDeck Prime	
	Georgia-Pacific DensDeck Storm X Prime	Min. 5/8-inch thick
	JM ENRGY 3	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	JM ENRGY 3 C1	
	JM ENRGY 3 AGF	
	JM ENRGY 3 CGF	
	JM ENRGY 3 C1 CGF	
	JM ENRGY 3 FR	
	JM Fesco Board	Min. 3/4-inch thick; Min. 20 psi
	JM Fesco Foam	Min. 1.5-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	JM Invinsa Roof Board	1/4-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	JM Invinsa Foam Roof Board	
	JM Invinsa FR Roof Board	
	JM ProtectoR Foam	Min. 2-inch thick; Min. 80psi top layer; Min. 20psi bottom layer; Adhered boards shall be a maximum 4 ft x 4 ft
	JM ProtectoR HD	1/2-inch thick; Min. 80 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	JM ProtectoR HD FR	
	JM Retro-Fit Board	1/2-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	JM RetroPlus Roof Board	

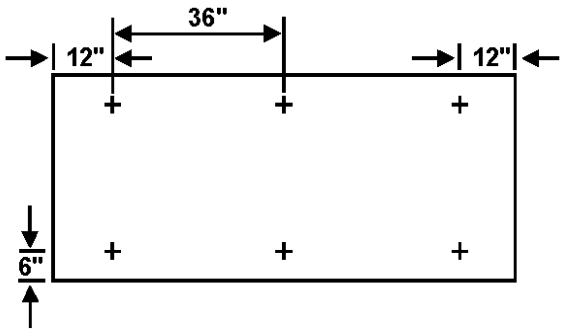
Component	Product	Installation Detail
Insulation/Cover Boards (Cont'd)	JM SECUROCK Glass-Mat Roof Board	Min. 1/4-inch thick
	JM SECUROCK Gypsum-Fiber Roof Board	
	JM SeparatoR	1/2-inch thick; Min. 25 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	JM SeparatoR CGF	1/2-inch thick; Min. 25 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	JM SeparatoR FR	
	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	
PVC Membrane Adhesives	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft^2; For use only with JM PVC Fleece Backed membranes only
	JM All Season Sprayable Bonding Adhesive	For JM PVC Fleece Backed membranes only; The adhesive is applied both to the substrate and the underside of the membrane at a rate of 0.21-0.23 gal/100ft^2 for a total application rate of 0.41-0.47gal/100ft^2
	JM PVC All Season Sprayable Bonding Adhesive	Fully adhered at rate of 500 ft^2/canister; Applied simultaneously to underside of membrane and substrate; For use with JM PVC smooth backed membranes only
	JM PVC Membrane Adhesive (Low VOC)	Fully adhered at rate of 50-90 ft^2/gal (1.1-2.0 gal/100ft^2); Applied simultaneously to underside of membrane and substrate; For use with JM PVC smooth backed membranes only
	JM PVC Water Based Membrane Adhesive	Bareback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft^2; Fleeceback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft^2
	JM Roofing System Urethane Adhesive	Ribbon adhered in 1/2 to 3/4-inch wide beads; For use only with JM PVC Fleece Backed membranes only
	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; For use only with JM PVC Fleece Backed membranes only
SA Primer	JM SA Primer Low VOC	Applied at rate of 0.5 gal/sq.
	JM SA Primer	Applied 0.75-1.25 gal/100ft^2 on porous surfaces and 0.25-0.75 gal/100ft^2 on nonporous surfaces
	JM All Season Sprayable Bonding Adhesive	Applied at rate of 500 ft^2/canister
Vapor Barriers	JM DynaBase HW	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered to primed concrete deck
	JM DynaWeld Base	
	JM DynaBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold *approved* adhesives
	JM DynaBase PR	
	JM DynaLastic 180	
	JM DynaLastic 180 FR	
	JM DynaLastic 180 S	
	JM DynaLastic 250	
	JM DynaLastic 250 FR	
	JM DynaLastic 250 S	
	JM DynaFast 180 S	
	JM DynaMax	
	JM DynaMax FR	
	JM DynaGrip Base SD/SA	Min. 3-inch wide side-laps; Min. 6-inch end laps; Self-adhered
	JM DynaGrip Base PR SD/SA	

Component	Product	Installation Detail
Vapor Barriers (Cont'd)	JM Vapor Barrier SA	Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps
	JM Vapor Barrier SAR	Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps
Vapor Barrier Adhesives	DynaSet 1k	Min. 4-inch laps sealed at a rate of 1.5-2.0gal/100ft^2; Applied to substrate in 0.5-0.75-inch wide continuous ribbons
	DynaSet 2k	
Base Sheets	JM DynaBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold *approved* adhesives
	JM DynaBase HW	Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered
	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
PVC Single-Ply Membranes	JM PVC–50 mil	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld for adhered systems; In-lap fastened systems shall have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; 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 PVC-60 mil	
	JM PVC-80 mil	
	JM PVC Fleece Backed-50 mil	
	JM PVC Fleece Backed-60 mil	
	JM PVC Fleece Backed-80 mil	
	JM PVC SD Plus-50 mil	
	JM PVC SD Plus-60 mil	
	JM PVC SD Plus-80 mil	
	JM PVC SL-50 mil	Shall have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses
	JM PVC SL-60 mil	
	JM PVC SV-80 mil	
Cellular Lightweight Concrete	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.
	Mearlcrete	Slurry coat min. 1/8-inch thick; 1" thick EPS board (1 lbs/ft^3); Min. 2-inch thick top coat;
	Elastizell	
	Concrecel	
	Cellular Lightweight Concrete	

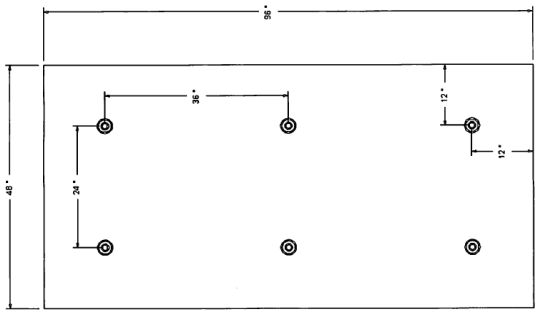
Insulation/Cover Board Fastening Patterns



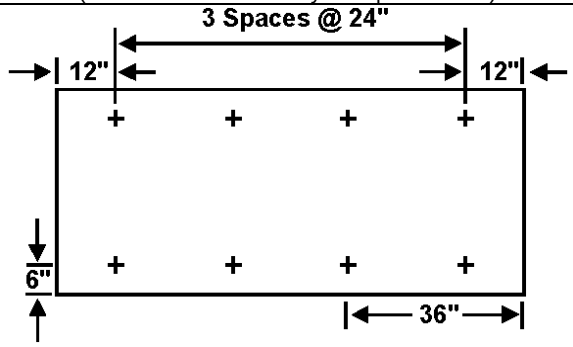
4 per 4-ft x 8-ft board
(Max. 8.0-ft^2 contributory area per fastener)



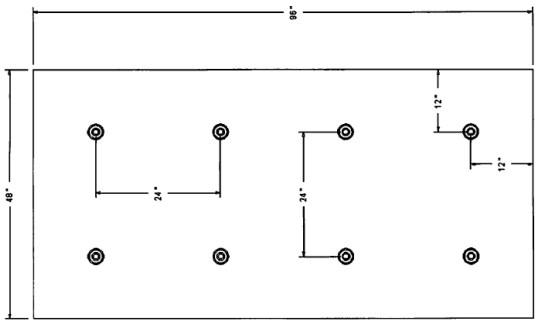
6 per 4-ft x 8-ft board Pattern #1
(Max. 5.33-ft^2 contributory area per fastener)



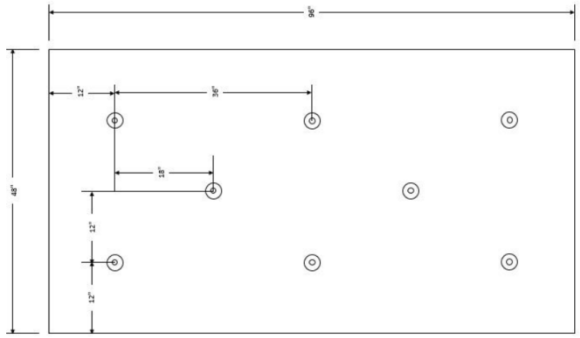
6 per 4-ft x 8-ft board Pattern #2
(Max. 5.33-ft^2 contributory area per fastener)



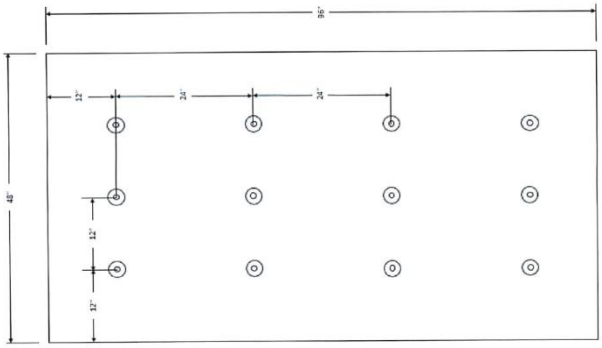
8 per 4-ft x 8-ft board Pattern #1
(Max. 4.0-ft^2 contributory area per fastener)



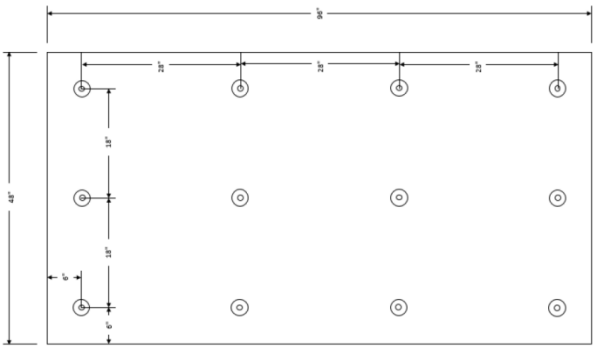
8 per 4-ft x 8-ft board Pattern #2
(Max. 4.0-ft^2 contributory area per fastener)



8 per 4-ft x 8-ft board Pattern #3
(Max. 4.0-ft^2 contributory area per fastener)

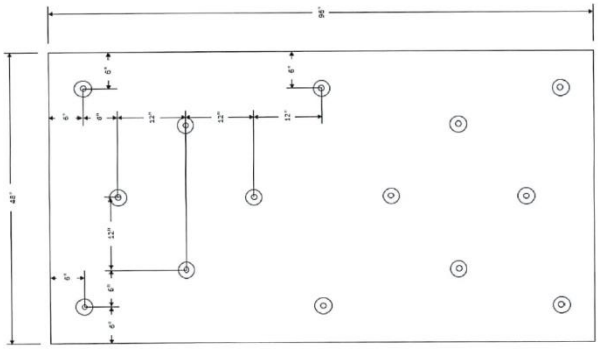


12 per 4-ft x 8-ft board Pattern #1
(Max. 2.67-ft^2 contributory area per fastener)

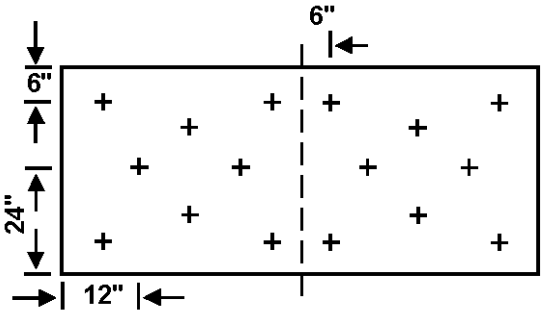


12 per 4-ft x 8-ft board Pattern #2
(Max. 2.67-ft^2 contributory area per fastener)

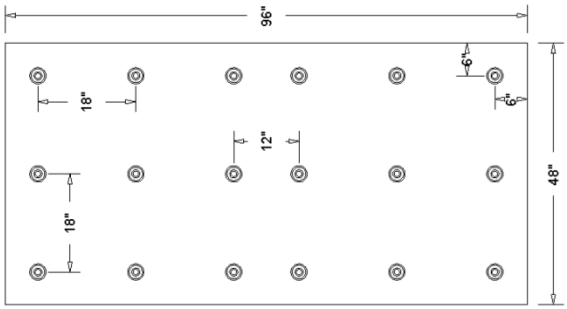
Insulation/Cover Board Fastening Patterns



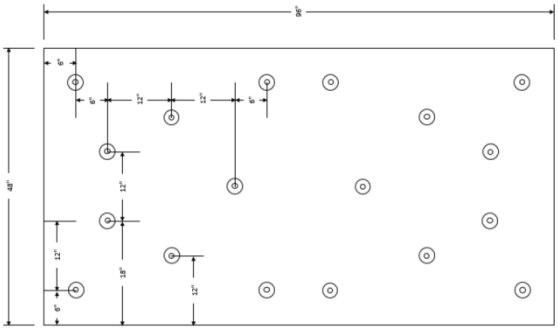
14 per 4-ft x 8-ft board
(Max. 2.29-ft^2 contributory area per fastener)



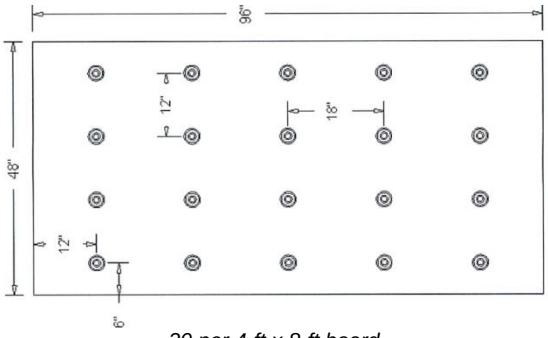
16 per 4-ft x 8-ft board
(Max. 2.0-ft^2 contributory area per fastener)



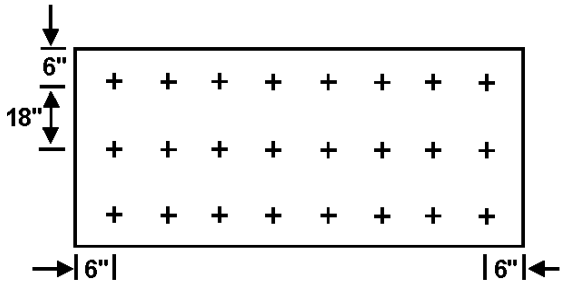
18 per 4-ft x 8-ft board Pattern #1
(Max. 1.78-ft^2 contributory area per fastener)



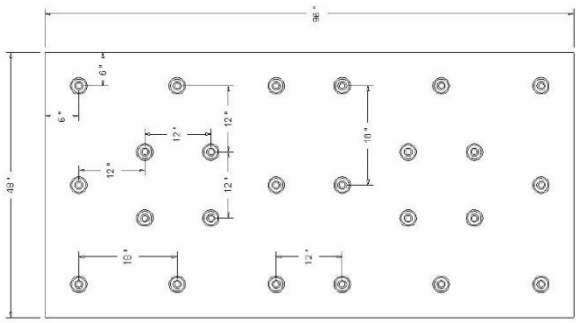
18 per 4-ft x 8-ft board Pattern #2
(Max. 1.78-ft^2 contributory area per fastener)



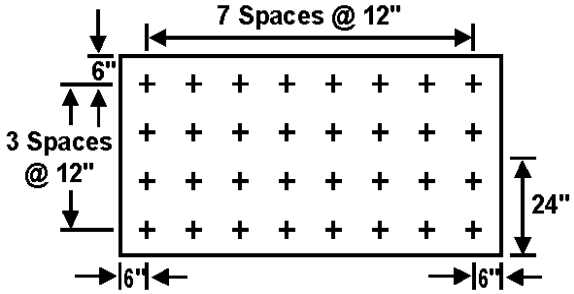
20 per 4-ft x 8-ft board
(Max. 1.6-ft^2 contributory area per fastener)



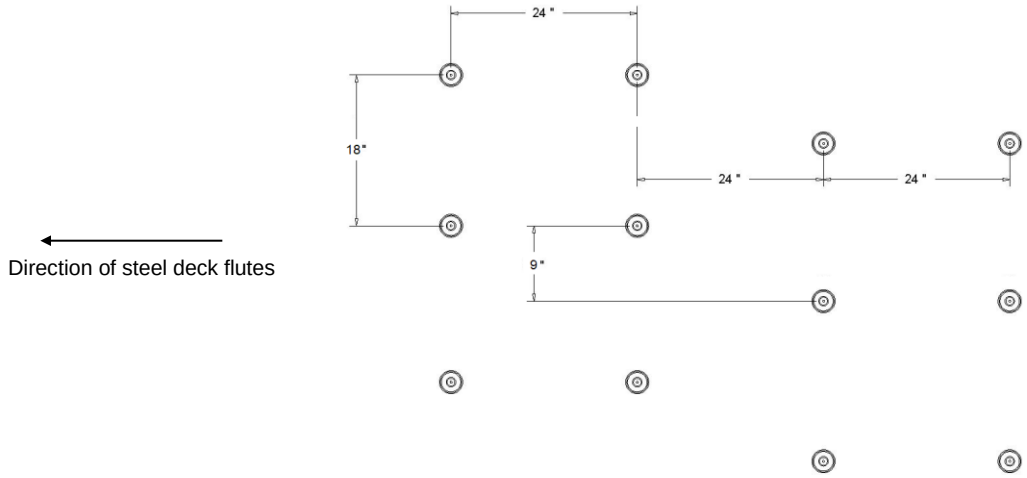
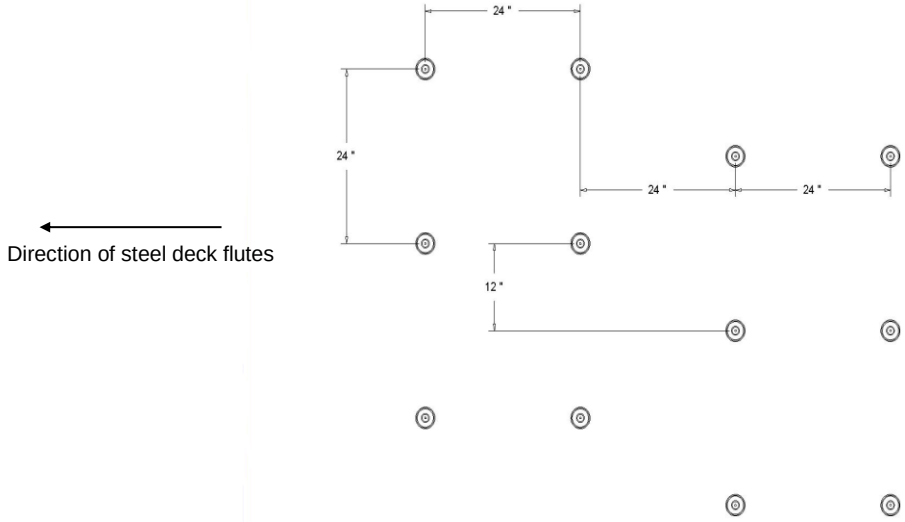
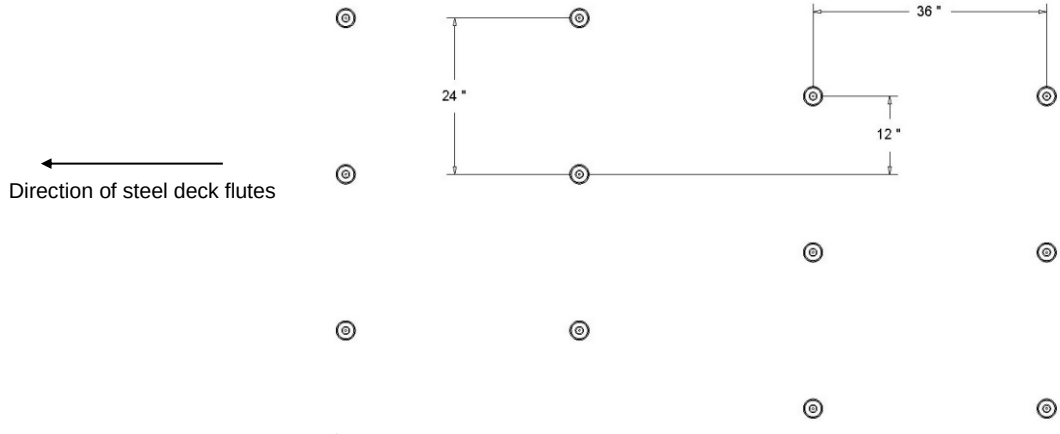
24 per 4-ft x 8-ft board
(Max. 1.33-ft^2 contributory area per fastener)



24 per 4-ft x 8-ft board Pattern #2
(Max. 1.33-ft^2 contributory area per fastener)



32 per 4-ft x 8-ft board
(Max. 1.0-ft^2 contributory area per fastener)

Alternate Fastener Patterns for Induction Weld Assemblies Only	
Description	Fastening Array Repeated Using the Geometric Grid Shown Below
1.5-ft x 2-ft staggered grid	
2-ft x 2-ft staggered grid	
2-ft x 3-ft staggered grid	

NOMENCLATURE

The following naming conventions are utilized to specify products in the APPROVED ASSEMBLIES 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 APPROVED ASSEMBLIES section of this report.

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

APPENDIX B – NOMENCLATURE

Name	Definition		
Deck Detail (Cont'd)	*Steel Deck*	Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for *LWIC* applications only. The following nomenclature is used to further describe the *As Tested* condition.	
		F<#>	<#> of #12-24 HWH self-drilling screws or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration
		G<#>	Min. Grade <#> of *Steel Deck*
		H<#>	<#> of Hilti X-HSN 24 fastener or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration
		L<#>	Max. span of <#> ft
		P	Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports
		S<#>	1/4 "-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
		SD<#>	<#> of SFS Intec SD5-#12-HW5/16 Fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration
		SDL<#>	SDL-#14-HW5/16 secured <#>-inch o.c. along the panel side laps
		HS<#>	Hilti S0SLC 01M fastener or equivalent fastener secured <#>-inch o.c. along the panel side laps
		W	3/4-inch O.D. flat washer used with indicated fastener
	Wood Deck	**HVHZ:** APA Span-Rated sheathing. The following nomenclature is used to further describe the *As Tested* condition:	
		T<#>P	Min. <#>-inch thickness of the plywood
		T<#>O	Min. <#>-inch thickness of the OSB
		L<#>	Max. span of <#> inches
		N<#>	Min. 0.113-inch diameter x 2-3/8-inch ring shank nails spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board
		16S<#>	Min. 16 ga. staples, 1.5-inch x 1-inch crown spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board
DF	Dekfast DF-#12-PH3 *Steel Deck,* or *Wood Deck)*, Dekfast DF-#14-PH# (*Concrete Deck, Steel Deck,* or *Wood Deck),* or Dekfast DF-#15-PH3 (*Steel Deck,* or *Wood Deck)* with Dekfast PLT-R-3		
DensDeck	Min. 1/4-inch Georgia-Pacific DensDeck		
DensDeck Prime	Min. 1/4-inch Georgia-Pacific DensDeck Prime; or DensDeck StormX Prime		
DEXcell CB	Min. 1/4-inch National Gypsum DEXcell Cement Roof Board		
DEXcell FA	Min. 1/4-inch National Gypsum DEXcell FA Glass Mat Roof Board		
E3	JM ENRGY 3 or JM ENRGY 3 CGF		
E3 C1	JM ENRGY 3 C1 or JM ENRGY 3 C1 CGF		
EPS	ASTM C 578 expanded polystyrene insulation board, min. Type IX in HVHZ		
Extra HL Fasteners & Plates	JM Extra High Load Fasteners (*Wood Deck* or *Steel Deck*) or JM All Purpose Fasteners (*Concrete Deck*) and JM Extra High Load Plates		

APPENDIX B – NOMENCLATURE

<table>
<tr><th>Name</th><th>Definition</th></tr>
<tr><td>Fasteners & Plates</td><td>
Choose one of the following fastener and plate combinations for the given conditions:
<table>
<tr><th>Board or Base Sheet</th><th>Fastener</th><th>Plate</th><th>Roof Deck</th></tr>
<tr><td>Any</td><td>JM All Purpose Fastener, JM Structural Concrete Deck Fastener, Dekfast DF-#14-PH3, or Trufast #14 HD Fastener</td><td>JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed</td><td>Concrete</td></tr>
<tr><td>Any</td><td>JM UltraFast Fastener, Trufast #12 DP Fastener, Trufast #14 HD Fastener, JM High Load Fastener, Dekfast DP-#15-PH3, or Trufast #15 EHD Fastener</td><td>JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed</td><td>Steel</td></tr>
<tr><td>Any</td><td>JM UltraFast Fastener, Trufast #12 DP Fastener, Dekfast DF-#12-PH3, JM All Purpose Fastener, Dekfast DF-#14-PH#, JM High Load Fastener, Dekfast DF-#15-PH3, or Trufast #15 EHD Fastener</td><td>JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed</td><td>Plywood or OSB</td></tr>
<tr><td>Any</td><td>Dekfast DF-#14-PH3</td><td>Dekfast PLT-R-3</td><td>Concrete</td></tr>
<tr><td>Any</td><td>Dekfast DF-#12-PH3 or Dekfast DP-#15-PH3</td><td>Dekfast PLT-R-3</td><td>Steel</td></tr>
<tr><td>Any</td><td>Dekfast DF-#12-PH3, Dekfast DF-#14-PH#, or Dekfast DF-#15-PH3</td><td>Dekfast PLT-R-3</td><td>Plywood or OSB</td></tr>
<tr><td>Any</td><td>JM All Purpose Fastener, JM Structural Concrete Deck Fastener, or Trufast #14 HD Fastener</td><td>Trufast 3” Metal Insulation Plates</td><td>Concrete</td></tr>
<tr><td>ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK</td><td>JM UltraFast Fastener or JM High Load Fastener</td><td>Trufast 3” Metal Insulation Plates</td><td>Steel</td></tr>
<tr><td>ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK</td><td>JM UltraFast Fastener, JM All Purpose Fastener or JM High Load Fastener</td><td>Trufast 3” Metal Insulation Plates</td><td>Plywood or OSB</td></tr>
<tr><td>Any</td><td>Trufast #12 DP Fastener, Trufast #14 HD Fastener, or Trufast #15 EHD Fastener</td><td>Trufast 3” Metal Insulation Plates</td><td>Steel or OSB</td></tr>
<tr><td>Any</td><td>Trufast #12 DP Fastener or Trufast #15 EHD Fastener</td><td>Trufast 3” Metal Insulation Plates</td><td>Plywood</td></tr>
</table>
</td></tr>
<tr><td>HL Fasteners & Plates</td><td>JM High Load Fasteners (Wood Deck or Steel Deck), Trufast #15 EHD Fasteners (Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM High Load Plates</td></tr>
<tr><td>INSULATION</td><td>
One of more layers in any combination of the following products:
<table>
<tr><td>-Approved EPS</td><td>-ENRGY 3 C1 CGF</td><td>-ProtectoR HD</td></tr>
<tr><td>-ENRGY 3</td><td>-Fesco Board</td><td>-ProtectoR HD FR</td></tr>
<tr><td>-ENRGY 3 AGF</td><td>-Fesco Foam</td><td>-Retro-Fit Board</td></tr>
<tr><td>-ENRGY 3 CGF</td><td>-Invinsa Roof Board</td><td>-RetroPlus Roof Board</td></tr>
<tr><td>-ENRGY 3 FR</td><td>-Invinsa FR Roof Board</td><td>-SECUROCK Glass-Mat Roof Board</td></tr>
<tr><td>-ENRGY 3 C1</td><td>-ProtectoR Foam</td><td>-SECUROCK Gypsum-Fiber Roof Board</td></tr>
</table>
</td></tr>
<tr><td>INVINSA</td><td>JM Invinsa or JM Invinsa FR Roof Board</td></tr>
</table>

APPENDIX B – NOMENCLATURE

Name	Definition
ISOWELD -#15	isoweld FI-P-6.8-PVC plates and DEKFAST DF-#15-PH3 Fasteners
ISOWELD-#12	isoweld FI-P-6.8-PVC plates and DEKFAST DF-#12-PH3 Fasteners
IW	Any one of the following fastener and plate combinations: 1) JM All Purpose Fasteners, JM High Load Fasteners, JM Structural Concrete Deck Fasteners, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3, Trufast #14 HD Fasteners, or Trufast #15 EHD Fasteners and JM PVC RhinoPlates; 2) Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Trufast Fluted Concrete Nails and Trufast PVC IW Plates; 3) JM All Purpose Fasteners, JM High Load Fasteners, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3 and *isoweld* FI-P-6.8-PVC plates;
IW #14	Any one of the following fastener and plate combinations: 1) JM All Purpose Fasteners, JM Structural Concrete Deck Fasteners, Dekfast DF-#14-PH3, or Trufast #14 HD Fasteners and JM PVC RhinoPlates; 2) Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails and Trufast PVC IW Plates; 3) JM All Purpose Fasteners or Dekfast DF-#14-PH3 and *isoweld* FI-P-6.8-PVC plates;
IW #15	Any one of the following fastener and plate combinations: 1) JM High Load Fasteners, JM Structural Concrete Deck Fasteners, Dekfast DF-#15-PH3, or Trufast #15 EHD Fasteners and JM PVC RhinoPlates; 2) Trufast #15 EHD Fasteners or Trufast Fluted Concrete Nails and Trufast PVC IW Plates; 3) JM High Load Fasteners or Dekfast DF-#15-PH3 and *isoweld* FI-P-6.8-PVC plates;
JM PVC	One ply of any one of the following products: JM PVC-50 mil, JM PVC-60 mil, or JM PVC-80 mil
JM PVC FB	One ply of any one of the following products: JM PVC Fleece Backed-50 mil, JM PVC Fleece Backed-60 mil or JM PVC Fleece Backed-80 mil
JM PVC FB/DynaFast	One ply of JM PVC Fleece Backed-50 mil or JM PVC Fleece Backed-60 mil fully adhered in ASTM D 312 Type asphalt over DynaFast 180 S. DynaFast 180 S fastened to deck as described in *Approved Assembly*
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 PVC SL	One ply of any one of the following products: JM PVC SL-50 mil, JM PVC SL-60 mil, or JM PVC SL-80 mil
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
OMG Fasteners & Plates	OMG XHD fasteners and 3 in. Ribbed Galvalume Plates (Flat)
OSFA	JM One-Step Foamable Adhesive
Preliminarily Secured	Fastened at minimum rate of 5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board.
ProtectoR	JM ProtectoR HD or JM ProtectoR HD FR Roof Board
PVC ASSBA	JM PVC All Season Sprayable Bonding Adhesive
PVC MA (LowVOC)	JM PVC Membrane Adhesive (Low VOC)
PVC WBMA	JM PVC Water Based Membrane Adhesive
Recover	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened roof assemblies and induction welded assemblies, i.e. systems x-M-# and x-W-#, the insulation layer is optional, or any INSULATION board or slip sheet may be used as separation layer prior to installing the approved roof assembly.

APPENDIX B – NOMENCLATURE

Name	Definition
Retro-Fit	JM Retro-Fit Board
RetroPlus	JM RetroPlus Roof Board
RhinoPlates	JM High Load Fasteners or Trufast #15 EHD Fasteners and JM PVC RhinoPlates
RSUA	JM Roofing System Urethane Adhesive
SECUROCK	Min. 1/4-inch JM SECUROCK Gypsum-Fiber Roof Board
SeparatoR	SeparatoR CGF or SeparatoR FR
StormX	DensDeck StormX Prime
TF	Trufast #12 DP Fastener (*Steel Deck* or *Wood Deck),* Trufast #14 HD Fastener (*Concrete Deck, Steel Deck,* or *Wood Deck),* or Trufast #15 EHD Fasteners (*Concrete Deck, Steel Deck* or *Wood Deck*) with Trufast 3" Metal Insulation Plate
UF	JM UltraFast Fasteners (*Steel Deck* or *Wood Deck),* JM All Purpose Fasteners (*Concrete Deck, Steel Deck,* or *Wood Deck),* or JM High Load Fasteners (*Wood Deck* or *Steel Deck*) with JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed
UIA	JM Urethane Insulation Adhesive
UltraFast Fasteners & Trufast Plates	JM UltraFast Fasteners (*Steel Deck* and *Wood Deck*), Trufast #12 DP Fasteners, JM All Purpose Fasteners (*Concrete Deck*), or Trufast #14 HD Fasteners and Trufast 3" Metal Insulation Plates
UltraFast Plates	UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plates (Round), or UltraFast Plate Metal Recessed
Vapor Barrier	One of the following vapor barriers installed over the deck: -4mil or 6mil Polyethylene, loose laid -JM Vapor Barrier SA or JM Vapor Barrier SAR, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board, DEXcell FA Glass Mat Roof Board or DEXcell Cement Roof Board. The thermal barrier may be primed with JM SA Primer Low VOC, or SA Primer -DynaGrip Base SD/SA, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board -DynaBase HW, torch applied to minimum 0.5-inch thick DEXcell FA Glass Mat Roof Board

<table>
<tr><th>Name</th><th>Definition</th></tr>
<tr><td>Vapor Barriers for Adhered Assemblies over Concrete Deck</td><td>One of the following options may be utilized as allowed by the Approved Assembly. The MDP shall be limited to the lesser of rating of the Approved Assembly and the MDP for the chosen vapor barrier.
<table>
<tr><th>Primer</th><th>Vapor Barrier</th><th>VB Application</th><th>Insulation Adhesive</th><th>MDP (psf)</th></tr>
<tr><td>None</td><td>DynaBase HW</td><td>Torch adhered</td><td>OSFA 12-inch o.c.</td><td>-172.5</td></tr>
<tr><td>None</td><td>DynaBase HW</td><td>Torch adhered</td><td>2-Part UIA 12-inch o.c.</td><td>-135</td></tr>
<tr><td>None</td><td>DynaBase HW</td><td>Torch adhered</td><td>RSUA 12-inch o.c.</td><td>-195</td></tr>
<tr><td>ASTM D 41</td><td>DynaGrip Base SD/SA</td><td>Self-adhered</td><td>OSFA 12-inch o.c.</td><td>-90</td></tr>
<tr><td>ASTM D 41</td><td>DynaGrip Base SD/SA</td><td>Self-adhered</td><td>2-Part UIA 12-inch o.c.</td><td>-97.5</td></tr>
<tr><td>ASTM D 41</td><td>DynaGrip Base SD/SA</td><td>Self-adhered</td><td>RSUA 12-inch o.c.</td><td>-82.5</td></tr>
<tr><td>ASTM D 41</td><td>DynaGrip Base PR SD/SA</td><td>Self-adhered</td><td>RSUA 12-inch o.c.</td><td>-202.5</td></tr>
<tr><td>ASTM D 41</td><td>DynaGrip Base PR SD/SA</td><td>Self-adhered</td><td>2-Part UIA 12-inch o.c</td><td>-262.5</td></tr>
<tr><td>None</td><td>DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 1k</td><td>DynaSet 1k 12-inch o.c.</td><td>OSFA, 2-Part UIA, or RSUA 12-inch o.c.</td><td>-232.5</td></tr>
<tr><td>None</td><td>DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 1k</td><td>DynaSet 1k 12-inch o.c.</td><td>ASTM D 312, Type IV Asphalt</td><td>-337.5</td></tr>
<tr><td>None</td><td>DynaLastic 180, DynaLastic 180 FR, DynaLastic 250, DynaLastic 250 FR, DynaMax, or DynaMax FR; Laps sealed with DynaSet 1k</td><td>DynaSet 1k 12-inch o.c.</td><td>OSFA, 2-Part UIA, or RSUA 12-inch o.c.</td><td>-232.5</td></tr>
<tr><td>None</td><td>DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 2k</td><td>DynaSet 2k 12-inch o.c.</td><td>OSFA, 2-Part UIA, or RSUA 12-inch o.c.</td><td>-97.5</td></tr>
<tr><td>None</td><td>DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 2k</td><td>DynaSet 2k 12-inch o.c.</td><td>ASTM D 312, Type IV Asphalt</td><td>-75</td></tr>
<tr><td>ASTM D 41</td><td>DynaWeld Base</td><td>Torch adhered</td><td>OSFA 12-inch o.c.</td><td>-150</td></tr>
<tr><td>ASTM D 41</td><td>DynaWeld Base</td><td>Torch adhered</td><td>2-Part UIA 12-inch o.c.</td><td>-120</td></tr>
<tr><td>ASTM D 41</td><td>DynaWeld Base</td><td>Torch adhered</td><td>RSUA 12-inch o.c.</td><td>-285</td></tr>
<tr><td>JM SA Primer Low VOC or SA Primer</td><td>JM Vapor Barrier SA or SAR</td><td>Self-adhered</td><td>OSFA or RSUA 12-inch o.c.</td><td>-135</td></tr>
<tr><td>JM SA Primer Low VOC or SA Primer</td><td>JM Vapor Barrier SA or SAR</td><td>Self-adhered</td><td>2-Part UIA 12-inch o.c.</td><td>-82.5</td></tr>
</table></td></tr>
<tr><td>Vapor Barriers for Adhered Assemblies over CWF Deck</td><td>One of the following options may be utilized as allowed by the Approved Assembly. The MDP shall be limited to the lesser of rating of the Approved Assembly and the MDP for the chosen vapor barrier.
<table>
<tr><th>Thermal Barrier</th><th>TB Adhesive</th><th>Primer</th><th>Vapor Barrier</th><th>VB Application</th><th>Insulation Adhesive</th><th>MDP (psf)</th></tr>
<tr><td>SECUROCK</td><td>RSUA 12-inch o.c.</td><td>ASTM D 41</td><td>DynaWeld Cap</td><td>Torch adhered</td><td>RSUA 12-inch o.c.</td><td>-250</td></tr>
</table></td></tr>
</table>

APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

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

1. Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to **LIMITATIONS** and **NOMENCLATURE** sections of this evaluation when using the table(s) below.
3. Refer to **INSTALLATION** section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. JM Vapor Barrier SA or JM Vapor Barrier SAR may be installed direct to deck prior to installing the roof assembly components for the following assembly types: C-M-#, C-W-#, G-M-#, LC-M-#, LS-M-#, S-M-#, 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.
7. Base Insulation in assemblies with All Layers Adhered may be installed in one or more layers.

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

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

Adhered Assemblies over *Concrete Deck* (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 7)	Top Insulation or Base Ply	Membrane	Membrane Attachment	*MDP* (psf)
C-A-1	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*DensDeck Prime* adhered with *2-Part UIA* at 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 9)**
C-A-2	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	OPTIONAL Min. 1.5-inch ENRGY 3 followed by *DensDeck Prime, DEXcell FA,* or *SECUROCK* in *RSUA* applied 12-inch o.c.	DynaBase HW	*JM PVC FB*	*2-Part UIA-C(S)*	**-45 (Lim. 9)**
C-A-3	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *RSUA* or *2-Part UIA* applied12-inch o.c.	OPTIONAL *SECUROCK,* RetroPlus, or JM Invinsa in *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-67.5 (Lim. 9)**
C-A-4	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *RSUA* applied 12-inch o.c.	*SECUROCK* in *OSFA*, *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-5	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *UIA*, *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in *UIA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)*	**-105 (Lim. 9)**
C-A-6	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *UIA*, *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c.	OPTIONAL JM Invinsa or ProtectoR HD in *UIA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-105 (Lim. 9)**
C-A-7	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *UIA*, *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c.	OPTIONAL ProtectoR HD in *UIA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-105 (Lim. 9)**
C-A-8	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *UIA*, or *2-Part UIA, OSFA* or *RSUA* at 12-inch o.c.	JM Invinsa or ProtectoR HD adhered with *UIA* at 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-112.5 (Lim. 9)**
C-A-9	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *UIA*, or *2-Part UIA, OSFA* or *RSUA* at 12-inch o.c.	JM Invinsa or ProtectoR HD adhered with *UIA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-112.5 (Lim. 9)**
C-A-10	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *UIA*, or *2-Part UIA, OSFA* or *RSUA* at 12-inch o.c.	ProtectoR HD adhered with *UIA* at 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-112.5 (Lim. 9)**

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

Adhered Assemblies over *Concrete Deck* (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 7)	Top Insulation or Base Ply	Membrane	Membrane Attachment	*MDP* (psf)
C-A-11	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* or ProtectoR Foam applied in *RSUA, OSFA* or *2-Part UIA* applied 12-inch o.c.	-	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-112.5 (Lim 9)**
C-A-12	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*, *PVC MA (LowVOC)* , or *PVC ASSBA*	**-127.5 (Lim. 9)**
C-A-13	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*, *PVC MA (LowVOC)* , or *PVC ASSBA*	**-127.5 (Lim. 9)**
C-A-14	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	ProtectoR HD adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-142.5 (Lim. 9)**
C-A-15	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*DensDeck Prime* adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC FB*	*PVC WBMA* or *ASBA*	**-142.5 (Lim. 9)**
C-A-16	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Separator CGF adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-150 (Lim. 9)**
C-A-17	-	Min. 1.5-inch *E3*, min. 1-inch Fesco, min. 1.5-inch Fesco Foam, or Retro-Fit in ASTM D 312 Type asphalt	-	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-150 (Lim. 9)**
C-A-18	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	*JM PVC FB*	*ASBA*	**-157.5 (Lim. 9)**
C-A-19	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-180 (Lim. 9)**
C-A-20	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA* or *RSUA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9)**

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

Adhered Assemblies over *Concrete Deck* (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 7)	Top Insulation or Base Ply	Membrane	Membrane Attachment	*MDP* (psf)
C-A-21	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *OSFA* or *RSUA* at 12-inch o.c.	ProtectoR HD adhered with *RSUA* at 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA* or *PVC MA (LowVOC)*	**-180 (Lim. 9)**
C-A-22	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *OSFA* or *RSUA* at 12-inch o.c.	ProtectoR HD adhered with *RSUA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9)**
C-A-23	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* adhered with *OSFA* or *RSUA* at 12-inch o.c.	ProtectoR HD adhered with *RSUA* at 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-180 (Lim. 9)**
C-A-24	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch *E3* in *RSUA* applied 12-inch o.c.	*SECUROCK* in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-180 (Lim. 9)**
C-A-25	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	ProtectoR HD adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA*	**-180 (Lim. 9)**
C-A-26	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	ProtectoR HD adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9)**
C-A-27	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 followed by *DEXcell FA* in *RSUA* applied 12-inch o.c.	DynaBase HW	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-185 (Lim. 9)**
C-A-28	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Min. 1-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-187.5 (Lim. 9)**
C-A-29	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck* (Not for use with hot asphalt)	Min. 1.5-inch *E3* in *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c. or ASTM D 312 Type IV Asphalt	-	*JM PVC*	*PVC MA (LowVOC)*	**-217.5 (Lim. 9)**
C-A-30	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck* (Not for use with hot asphalt)	Min. 1.5-inch *E3* in *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c. or ASTM D 312 Type IV Asphalt	-	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-217.5 (Lim. 9)**

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

Adhered Assemblies over *Concrete Deck* (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 7)	Top Insulation or Base Ply	Membrane	Membrane Attachment	*MDP* (psf)
C-A-31	-	-	-	*JM PVC FB*	*PVC WBMA*	**-217.5 (Lim. 9)**
C-A-32	DynaBase HW	Min. 1.5-inch *E3* followed by *SECUROCK* in *RSUA* applied 12-inch o.c.	DynaBase HW	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-217.5 (Lim. 9)**
C-A-33	DynaBase HW	Min. 1.5-inch ENERGY 3 followed by *DensDeck Prime* in *RSUA* applied 12-inch o.c.	DynaBase HW	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-217.5 (Lim. 9)**
C-A-34	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Separator CGF adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*	**-225 (Lim. 9)**
C-A-35	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Separator CGF adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-225 (Lim. 9)**
C-A-36	DynaBase HW	*SECUROCK* in *RSUA* applied 12-inch o.c.	DynaBase HW	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-225 (Lim. 9)**
C-A-37	DynaWeld Base torch adhered over deck primed with ASTM D 41 primer	Min. 1-inch ENRGY 3 adhered with *RSUA* at 12-inch o.c.	-	*JM PVC SD Plus*	*PVC MA (Low VOC)*	**-240 (Lim. 9)**
C-A-38	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 0.5-inch ENRGY 3 adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	Invinsa adhered with *OSFA, RSUA* or *2-Part UIA* at 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-225 (Lim. 9; Non-HVHZ)**
C-A-39	OPTIONAL *Vapor Barriers for Adhered Assemblies over Concrete Deck*	Min. 1.5-inch ENRGY 3 in *2-Part UIA* applied 12-inch o.c.	*DEXcell FA* in *2-Part UIA* applied 12-inch o.c. followed by DynaWeld Base	*JM PVC FB*	*2-Part UIA-C(S)* at 6lbs/100ft^2	**-255 (Lim. 9)**
C-A-40	-	Min. 1.5-inch ENRGY 3 or ProtectoR Foam in *2-Part UIA-C(B)* applied 12-inch o.c.	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-277.5 (Lim. 9)**
C-A-41	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF in *RSUA* applied 12-inch o.c.	*SECUROCK* in *RSUA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC MA (Low VOC)*	**-292.5 (Lim. 9)**
C-A-42	DynaBase HW torch adhered over deck primed with ASTM D 41 primer	Min. 1.5-inch ENRGY 3 CGF in *RSUA* applied 12-inch o.c.	*SECUROCK* in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-292.5 (Lim. 9)**

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

Adhered Assemblies over *Concrete Deck* (New or Existing)						
System No.	Vapor Barrier	Base Insulation (Note 7)	Top Insulation or Base Ply	Membrane	Membrane Attachment	*MDP* (psf)
C-A-43	-	Min. 1-inch *E3 C1 or E3* (less ENRGY 3 FR) in *2-Part UIA* applied 12-inch o.c.	*DensDeck Prime* in *2-Part UIA, OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-337.5 (Lim. 9)**
C-A-44	-	-	*DEXcell CB* or *DEXcell FA* in *2-Part UIA* or OlyBond 500 applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC MA (Low VOC)*	**-390 (Lim. 9)**
C-A-45	-	-	*DEXcell FA* in *2-Part UIA* or OlyBond 500 applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-390 (Lim. 9)**

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-1	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-30 (Lim. 7; Non-HVHZ)**
C-AM-2	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-30 (Lim. 7; Non-HVHZ)**
C-AM-3	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC FB*	*RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-30 (Lim. 7; Non-HVHZ)**
C-AM-4	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
C-AM-5	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
C-AM-6	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC FB*	*RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-7	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 7)**
C-AM-8	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c., or *PVC WBMA* or *ASBA*	**-45 (Lim. 7)**
C-AM-9	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c.	**-45 (Lim. 7)**
C-AM-10	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	*Fastener & Plates* secured *8 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
C-AM-11	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2 or *PVC ASSBA*	**-52.5 (Lim. 7)**
C-AM-12	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
C-AM-13	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-52.5 (Lim. 7)**
C-AM-14	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied 1-1.1 gal/100ft^2 or *PVC ASSBA*	**-52.5 (Lim. 7)**
C-AM-15	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-52.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-16	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-52.5 (Lim. 7)**
C-AM-17	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*DensDeck Prime*	*Fastener & Plates*secured 1 fastener per 1.78ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-52.5 (Lim. 7)**
C-AM-18	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*DensDeck Prime*	*Fastener & Plates*secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
C-AM-19	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *AP Fasteners & Plates (Square)* secured 1 fastener per 1.00ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2	**-60 (Lim. 7)**
C-AM-20	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *AP Fasteners & Plates (Square)* secured 1 fastener per 1.00ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
C-AM-21	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 1/2-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-60 (Lim. 7)**
C-AM-22	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 1/2-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2	**-60 (Lim. 7)**
C-AM-23	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 1/2-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
C-AM-24	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.78ft^2	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-60 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-25	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
C-AM-26	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
C-AM-27	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
C-AM-28	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1ft^2	*SECUROCK,* RetroPlus, or JM Invinsa	*RSUA* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-67.5 (Lim. 7)**
C-AM-29	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 6-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-67.5 (Lim. 7)**
C-AM-30	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	*Fastener & Plates* secured 1 fastener per 2.0ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-67.5 (Lim. 7)**
C-AM-31	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c.	**-67.5 (Lim. 7)**
C-AM-32	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-67.5 (Lim. 7)**
C-AM-33	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-67.5 (Lim. 7)**
C-AM-34	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3, E3 C1,* or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-75 (Lim. 7)**
C-AM-35	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3* or*E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-75 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-36	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	*Fastener & Plates* secured 1 fastener per 2.0ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-75 (Lim. 7)**
C-AM-37	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *SECUROCK*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-75 (Lim. 7)**
C-AM-38	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC ASSBA*	**-82.5 (Lim. 7)**
C-AM-39	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-82.5 (Lim. 7)**
C-AM-40	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
C-AM-41	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-82.5 (Lim. 7)**
C-AM-42	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC ASSBA*	**-82.5 (Lim. 7)**
C-AM-43	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.625-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC WBMA*	**-90 (Lim. 7)**
C-AM-44	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.625-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-90 (Lim. 7)**
C-AM-45	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-105 (Lim. 7)**
C-AM-46	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-105 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Concrete Deck* (New, Existing, or *Recover*)								
System No.	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-AM-47	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-105 (Lim. 7)**
C-AM-48	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-112.5 (Lim. 7)**
C-AM-49	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-112.5 (Lim. 7)**
C-AM-50	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3, E3 C1,* or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
C-AM-51	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-120 (Lim. 7)**
C-AM-52	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
C-AM-53	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-120 (Lim. 7)**
C-AM-54	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	ProtectoR HD	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
C-AM-55	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-135 (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	*MDP* (psf)
C-M-1	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *Extra HL Fastener & Plates*; Fastener rows max. 114-inch o.c.	**-37.5 (Lim. 7; Non-HVHZ)**

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

Mechanically Fastened Assemblies 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-2	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	**-45 (Lim. 7)**
C-M-3	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC, JM PVC SD Plus,* or *JM PVC SL*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	**-45 (Lim. 7)**
C-M-4	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus*	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-45 (Lim. 7)**
C-M-5	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Fastener rows max. 72-inch o.c.	**-45 (Lim. 7)**
C-M-6	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* (Min. 60 mil)	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c.	**-52.5 (Lim. 7)**
C-M-7	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	**-52.5 (Lim. 9)**
C-M-8	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	**-60 (Lim. 7)**
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* or *JM PVC SL*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-60 (Lim. 7)**
C-M-10	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* or *JM PVC FB*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 4.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
C-M-11	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**

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

Mechanically Fastened Assemblies 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-12	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
C-M-13	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*APB Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**
C-M-14	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 12-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**
C-M-15	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	**-60 (Lim. 9)**
C-M-16	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* (Min. 60 mil)	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c.	**-75 (Lim. 7)**

Induction Welded Assemblies over *Concrete Deck* (New, Existing, or *Recover*)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-W-1	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #14* spaced 12-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
C-W-2	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 12” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
C-W-3	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced in a *2-ft x 3-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to Isoweld plates	**-37.5 (Lim. 7; Non-HVHZ)**

Induction Welded Assemblies over *Concrete Deck* (New, Existing, or *Recover*)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-W-4	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced in a *2-ft x 3-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
C-W-5	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #14* spaced 12-inch o.c. in rows 60-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
C-W-6	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 24” o.c. in rows 24” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
C-W-7	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 12” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
C-W-8	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *IW #14* in a *2-ft x 2-ft staggered grid* pattern	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-52.5 (Lim. 7)**
C-W-9	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 6” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-60 (Lim. 7)**
C-W-10	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *IW #14* at a rate of *8 per 4-ft x 8-ft board Pattern #1* (1 fastener per 4.0-ft^2)	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**
C-W-11	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 18” o.c. in rows 24” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**
C-W-12	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #14* spaced 6-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-82.5 (Lim. 7)**
C-W-13	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced in a *1.5-ft x 2-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-82.5 (Lim. 7)**

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

Induction Welded Assemblies over *Concrete Deck* (New, Existing, or *Recover*)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
C-W-14	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 18" o.c. in rows 18" o.c.	*JM PVC* *JM PVC SD Plus* (Min. 60 mil)	Induction welded to Iweld plates	**-82.5 (Lim. 7)**
C-W-15	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #14* spaced 12-inch o.c. in rows 60-inch o.c.	*JM PVC* *JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**
C-W-16	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *IW #14* at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft^2)	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**
C-W-17	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#14* or *ISOWELD-#15* spaced 6" o.c. in rows 60" o.c.	*JM PVC* *JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**

Adhered Assemblies over *CWF Deck* (New or Existing)								
System No.	Vapor Barrier	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
CW-A-1	-	OPTIONAL Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*OSFA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
CW-A-2	-	OPTIONAL Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*OSFA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
CW-A-3	-	OPTIONAL Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*RSUA, OSFA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-140 (Lim. 9)**
CW-A-4	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*RSUA* applied 12-inch o.c.	-	-	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-150 (Lim. 9)**
CW-A-5	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*RSUA* applied 12-inch o.c.	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-150 (Lim. 9)**

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

Adhered Assemblies over *CWF Deck* (New or Existing)								
System No.	Vapor Barrier	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
CW-A-6	-	Min. 1-inch ENRGY 3 or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-157.5 (Lim. 9)**
CW-A-7	-	Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2	**-157.5 (Lim. 9)**
CW-A-8	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*OSFA* or *RSUA* applied 12-inch o.c.	Protector R HD	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA* or *PVC MA (LowVOC)*	**-157.5 (Lim. 9)**
CW-A-9	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*OSFA* or *RSUA* applied 12-inch o.c.	Protector R HD	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-157.5 (Lim. 9)**
CW-A-10	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*OSFA* or *RSUA* applied 12-inch o.c.	Protector R HD	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-157.5 (Lim. 9)**
CW-A-11	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3	*OSFA* or *RSUA* applied 12-inch o.c.	*DensDeck Prime*	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-157.5 (Lim. 9)**
CW-A-12	-	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-13	-	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)**
CW-A-14	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	*RSUA* applied 12-inch o.c.	-	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-255 (Lim. 9; HVHZ only)**
CW-A-15	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF	*RSUA* applied 12-inch o.c.	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-255 (Lim. 9; HVHZ only)**

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

Adhered Assemblies over *CWF Deck* (New or Existing)								
System No.	Vapor Barrier	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
CW-A-16	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3 CGF	*RSUA* applied 12-inch o.c.	*SECUROCK*	*RSUA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC MA (Low VOC)*	**-255 (Lim. 9; HVHZ only)**
CW-A-17	OPTIONAL *Vapor Barriers for Adhered Assemblies over CWF Deck*	Min. 1.5-inch ENRGY 3 CGF	*RSUA* applied 12-inch o.c.	*SECUROCK*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-255 (Lim. 9; HVHZ only)**

Assemblies with Adhered Membranes over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation/Sheet	Base Insulation/Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
CW-AM-1	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch *E3* or *E3 C1*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-2	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch *E3* or *E3 C1*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c. or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-3	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Invinsa, ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-4	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	*DensDeck Prime*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-5	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)*	**-45 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation/Sheet	Base Insulation/Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
CW-AM-6	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	*DensDeck Prime*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC*	*ASBA*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-7	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-8	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA(C)*	**-45 (Lim. 7; Non-HVHZ)**
CW-AM-9	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	SeparatoR CGF, *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	ASTM D 312, Type IV asphalt	**-45 (Lim. 7; Non-HVHZ)**

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)**

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

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-1	OPTIONAL Min. 0.5-inch *E3* over OPTIONAL GlasPly IV, GlasPly Premier, PermaPly 28, or DynaBase in ASTM D 312, Type IV asphalt	*2-Part UIA* applied 12-inch o.c.	ProtectoR HD	*2-Part UIA, RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC WBMA* or *PVC MA (LowVOC)*	**-45 (Lim. 9; Non-HVHZ)**
G-A-2	OPTIONAL Min. 0.5-inch *E3* over OPTIONAL GlasPly IV, GlasPly Premier, PermaPly 28, or DynaBase in ASTM D 312, Type IV asphalt	*2-Part UIA* applied 12-inch o.c.	ProtectoR HD	*2-Part UIA, RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA,* or *PVC MA (LowVOC)*	**-45 (Lim. 9; Non-HVHZ)**
G-A-3	Min. 1.5-inch *E3* (no FR) or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c.	-	-	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA* (*E3* only, no AGF)	**-60 (Lim. 9)**
G-A-4	Min. 1.5-inch *E3* (no FR) or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c.	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-60 (Lim. 9)**
G-A-5	Min. 1.5-inch *E3* (no FR)	*2-Part UIA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*2-Part UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA* or *PVC ASSBA* (no Invinsa)	**-60 (Lim. 9)**
G-A-6	Min. 1.5-inch *E3* (no FR)	*2-Part UIA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*2-Part UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA* or *PVC ASSBA* (no Invinsa)	**-60 (Lim. 9)**
G-A-7	Min. 1.5-inch *E3* (no FR)	*2-Part UIA* applied 12-inch o.c.	*SECUROCK*	*RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*, *PVC WBMA* or *PVC ASSBA*	**-60 (Lim. 9)**
G-A-8	Min. 1-inch ENRGY 3 or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC);* Applied 1.67 gal/100ft^2, *PVC WBMA* or *PVC ASSBA* (no ProtectoR Foam)	**-77.5 (Lim. 9)**
G-A-9	Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*OSFA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA* or *PVC ASSBA* (no Invinsa)	**-77.5 (Lim. 9)**
G-A-10	Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA* or *PVC ASSBA* (no Invinsa)	**-77.5 (Lim. 9)**
G-A-11	Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa or ProtectoR HD	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-77.5 (Lim. 9)**

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

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-12	Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	JM Invinsa	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*ASBA*	**-77.5 (Lim. 9)**
G-A-13	OPTIONAL Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-77.5 (Lim. 9)**
G-A-14	OPTIONAL Min. 1-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-77.5 (Lim. 9)**
G-A-15	JM Invinsa	*OSFA* applied 12-inch o.c.	-	-	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-92.5 (Lim. 9)**
G-A-16	JM Invinsa	*OSFA* applied 12-inch o.c.	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-92.5 (Lim. 9)**
G-A-17	Min. 1.5-inch *E3* (no FR)	*UIA* at 12-inch o.c.	JM Invinsa or ProtectoR HD	*UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
G-A-18	Min. 1.5-inch *E3* (no FR)	*UIA* at 12-inch o.c.	ProtectoR HD	*UIA* applied 12-inch o.c.	*JM PVC*	*PVC ASSBA*	**-112.5 (Lim. 9)**
G-A-19	Min. 1.5-inch *E3* (no FR)	*UIA* at 12-inch o.c.	JM Invinsa or ProtectoR HD	*UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
G-A-20	Min. 1.5-inch *E3* (no FR)	*UIA* at 12-inch o.c.	ProtectoR HD	*UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-112.5 (Lim. 9)**
G-A-21	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC SD Plus*	*PVC ASSBA*	**-142.5 (Lim. 9; Non-HVHZ)**
G-A-22	Min. 1.5-inch *E3* or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-23	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-24	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*OSFA* applied 12-inch o.c.	-	-	*JM PVC SD Plus*	*PVC ASSBA*	**-150 (Lim. 9; Non-HVHZ)**
G-A-25	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*ProtectoR*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-150 (Lim. 9; Non-HVHZ)**

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-26	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*ProtectoR*	*OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC WBMA* or *PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-27	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*ProtectoR*	*OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-150 (Lim. 9; Non-HVHZ)**
G-A-28	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DensDeck Prime*	*OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-29	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DensDeck Prime*	*OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-150 (Lim. 9; Non-HVHZ)**
G-A-30	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DensDeck Prime*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312, Type IV Asphalt	**-150 (Lim. 9; Non-HVHZ)**
G-A-31	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c. after DynaBase HW torched adhered	**-150 (Lim. 9; Non-HVHZ)**
G-A-32	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-33	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-150 (Lim. 9; Non-HVHZ)**
G-A-34	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*SECUROCK*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312, Type IV Asphalt	**-150 (Lim. 9; Non-HVHZ)**
G-A-35	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DEXcell CB*	*OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-36	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DEXcell CB*	*OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-150 (Lim. 9; Non-HVHZ)**
G-A-37	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DEXcell FA*	*OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-150 (Lim. 9; Non-HVHZ)**
G-A-38	OPTIONAL Min. 1.5-inch ENRGY 3	*OSFA* applied 12-inch o.c.	*DEXcell FA*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312, Type IV Asphalt	**-150 (Lim. 9; Non-HVHZ)**
G-A-39	Min. 1.5-inch *E3* or ProtectoR Foam	*RSUA applied 12-inch o.c.*	-	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-180 (Lim. 9; Non-HVHZ)**
G-A-40	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*ProtectoR*	*RSUA applied 12-inch o.c.*	*JM PVC FB*	*2-Part UIA-C(S)*	**-180 (Lim. 9; Non-HVHZ)**
G-A-41	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*ProtectoR*	*RSUA applied 12-inch o.c.*	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9; Non-HVHZ)**
G-A-42	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*ProtectoR*	*RSUA applied 12-inch o.c.*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-180 (Lim. 9; Non-HVHZ)**
G-A-43	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DensDeck Prime*	*RSUA applied 12-inch o.c.*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
G-A-44	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DensDeck Prime*	*RSUA applied 12-inch o.c.*	*JM PVC SD Plus*	*PVC ASSBA*	**-210 (Lim. 9; Non-HVHZ)**
G-A-45	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DensDeck Prime*	*RSUA applied 12-inch o.c.*	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312, Type IV Asphalt	**-210 (Lim. 9; Non-HVHZ)**

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

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-46	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*SECUROCK*	*RSUA applied 12-inch o.c.*	*JM PVC FB*	*RSUA* applied 12-inch o.c. after DynaBase HW torched adhered	**-210 (Lim. 9; Non-HVHZ)**
G-A-47	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*SECUROCK*	*RSUA applied 12-inch o.c.*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
G-A-48	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*SECUROCK*	*RSUA applied 12-inch o.c.*	*JM PVC SD Plus*	*PVC ASSBA*	**-210 (Lim. 9; Non-HVHZ)**
G-A-49	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*SECUROCK*	*RSUA applied 12-inch o.c.*	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312, Type IV Asphalt	**-210 (Lim. 9; Non-HVHZ)**
G-A-50	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DEXcell CB*	*RSUA applied 12-inch o.c.*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
G-A-51	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DEXcell CB*	*RSUA applied 12-inch o.c.*	*JM PVC SD Plus*	*PVC ASSBA*	**-210 (Lim. 9; Non-HVHZ)**
G-A-52	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DEXcell FA*	*RSUA applied 12-inch o.c.*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
G-A-53	OPTIONAL Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	*DEXcell FA*	*RSUA applied 12-inch o.c.*	*JM PVC FB*	*2-Part UIA-C(S)*, or ASTM D 312, Type IV Asphalt	**-210 (Lim. 9; Non-HVHZ)**
G-A-54	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*RSUA applied 12-inch o.c.*	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
G-A-55	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*RSUA applied 12-inch o.c.*	-	-	*JM PVC SD Plus*	*PVC ASSBA*	**-210 (Lim. 9; Non-HVHZ)**

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

Adhered Assemblies over Poured Gypsum Deck (New or Existing)							
System No.	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP (psf)*
G-A-56	Min. 1.5-inch ENRGY 3	*RSUA applied 12-inch o.c.*	-	-	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-210 (Lim. 9; Non-HVHZ)**

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	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch *E3* or *E3 C1*	*2-Part UIA*, applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-2	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Min. 0.5-inch *E3* or *E3 C1*	*2-Part UIA*, applied 12-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c. or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-3	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	Invinsa, ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA*, applied 12-inch o.c.	*JM PVC*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-4	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	*DensDeck Prime*	*2-Part UIA*, applied 12-inch o.c.	*JM PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**

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

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-5	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-6	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	*DensDeck Prime*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC*	*ASBA*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-7	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *DensDeck Prime,* or *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-8	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	ProtectoR HD, SeparatoR CGF, *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA(C)*	**-45 (Lim. 7; Non-HVHZ)**
G-AM-9	DynaBase or Ventsulation Felt	OlyLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll	SeparatoR CGF, *SECUROCK*	*2-Part UIA,* applied 12-inch o.c.	*JM PVC FB*	ASTM D 312, Type IV asphalt	**-45 (Lim. 7; Non-HVHZ)**

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

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 Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-1	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-67.5 (Lim. 9)**
LC-A-2	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *SECUROCK*	*OSFA* or *RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-67.5 (Lim. 9)**
LC-A-3	Min. 250 psi Elastizell with Zell-Crete Fibers installed over DynaBase HW over ASTM D 41 primed concrete	-	-	*JM PVC FB*	*RSUA* applied 6-inch o.c.	**-75 (Lim. 9)**
LC-A-4	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*RSUA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*,*PVC WBMA* or *PVC ASSBA*	**-77.5 (Lim. 9)**
LC-A-5	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-77.5 (Lim. 9)**
LC-A-6	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: *SECUROCK*	Base and Top layer in *RSUA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-77.5 (Lim. 9)**
LC-A-7	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: *SECUROCK*	Base and Top layer in *RSUA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-77.5 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-8	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: *SECUROCK*	Base and Top layer in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-77.5 (Lim. 9)**
LC-A-9	Min. 300 psi *LWIC*	Min. 1.5-inch ENRGY 3	*2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*, *PVC WBMA* or *PVC ASSBA*	**-80 (Lim. 9)**
LC-A-10	Min. 300 psi *LWIC*	Min. 1.5-inch ENRGY 3	*2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA* or *ASBA*	**-80 (Lim. 9)**
LC-A-11	Min. 300 psi *LWIC*	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-80 (Lim. 9)**
LC-A-12	Min. 300 psi *LWIC*	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-80 (Lim. 9)**
LC-A-13	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-14	Min. 330 psi *LWIC*	-	-	*JM PVC FB*	*PVC WBMA*	**-90 (Lim. 9)**
LC-A-15	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC MA (LowVOC)* or *PVC WBMA*	**-90 (Lim. 9)**
LC-A-16	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*, *RSUA* applied 4-inch o.c., *2-Part UIA-C(S),* or ASTM D 312, Type IV	**-90 (Lim. 9)**
LC-A-17	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *DensDeck Prime*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-90 (Lim. 9)**
LC-A-18	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *DEXcell FA*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA* or *RSUA* applied 4-inch o.c.	**-90 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-19	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *SECUROCK*	*OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-90 (Lim. 9)**
LC-A-20	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA, DynaBase HW, DynaWeld 180 S over ASTM D 41 primed concrete	-	-	*JM PVC FB*	*PVC WBMA* or *RSUA* applied 6-inch o.c.	**-92.5 (Lim. 9)**
LC-A-21	Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA, DynaBase HW, DynaWeld 180 S over ASTM D 41 primed concrete	-	-	*JM PVC FB*	*PVC WBMA* or *RSUA* applied 12-inch o.c.	**-102.5 (Lim. 9)**
LC-A-22	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC MA (LowVOC)*	**-105 (Lim. 9)**
LC-A-23	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch *E3* (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: *UIA* applied 6-inch o.c. or 2-*Part UIA* applied 12-inch o.c. Top Layer: *UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
LC-A-24	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch *E3* (no FR) Top Layer: ProtectoR HD	Base Layer: *UIA* applied 6-inch o.c. or 2-*Part UIA* applied 12-inch o.c. Top Layer: *UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-112.5 (Lim. 9)**
LC-A-25	Min. 160 psi Elastizell	Base Layer: Min. 1.5-inch *E3* (no FR) Top Layer: JM Invinsa or ProtectoR HD	Base Layer: *UIA* applied 6-inch o.c. or 2-*Part UIA* applied 12-inch o.c. Top Layer: *UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2 or *PVC WBMA*	**-112.5 (Lim. 9)**
LC-A-26	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c. or *2-Part UIA-C(S)*	**-112.5 (Lim. 9)**
LC-A-27	Min. 250 psi Elastizell with Zell-Crete Fibers	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-117.5 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-28	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-127.5 (Lim. 9)**
LC-A-29	Min. 310 psi Elastizell with Zell-Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-130 (Lim. 9)**
LC-A-30	Min. 310 psi Elastizell with Zell-Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-130 (Lim. 9)**
LC-A-31	Min. 400 psi Celcore MF with HS Rheology Admixture with DynaBase PR adhered in DynaSet 1k applied 12-inch o.c.	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD or *DensDeck Prime*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-142.5 (Lim. 9)**
LC-A-32	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by ProtectoR HD or *DensDeck Prime*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-142.5 (Lim. 9)**
LC-A-33	Min. 400 psi Celcore MF with HS Rheology Admixture with DynaBase PR adhered in DynaSet 1k applied 12-inch o.c.	Min. 0.5-inch ENRG Y 3 followed by *DEXcell FA*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-142.5 (Lim. 9)**
LC-A-34	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *DEXcell FA*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-142.5 (Lim. 9)**
LC-A-35	Min. 375 psi Concrecel	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-147.5 (Lim. 9)**
LC-A-36	Min. 400 psi Celcore MF with HS Rheology Admixture with DynaBase PR adhered in DynaSet 1k applied 12-inch o.c.	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-150 (Lim. 9)**
LC-A-37	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-150 (Lim. 9)**
LC-A-38	Min. 400 psi Celcore MF with HS Rheology Admixture with DynaBase PR adhered in DynaSet 1k applied 12-inch o.c.	-	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-157.5 (Lim. 9)**

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-39	Min. 290 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC SD Plus*	*PVC ASSBA*	**-165 (Lim. 9; Non-HVHZ)**
LC-A-40	Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW or DynaWeld 180 S	-	-	*JM PVC FB*	*PVC WBMA* or *RSUA* applied 12-inch o.c.	**-167.5 (Lim. 9)**
LC-A-41	Min. 375 psi Concrecel	-	-	*JM PVC FB*	*RSUA* applied 6-inch o.c.	**-172.5 (Lim. 9)**
LC-A-42	Min. 550 psi Elastizell with Zell-Fibers	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-177.5 (Lim. 9)**
LC-A-43	Min. 400 psi Celcore MF with HS Rheology Admixture with DynaBase PR adhered in DynaSet 1k applied 12-inch o.c.	Min. 0.5-inch ENRG Y 3 followed by *SECUROCK*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-187.5 (Lim. 9)**
LC-A-44	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *SECUROCK*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-187.5 (Lim. 9)**
LC-A-45	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-202.5 (Lim. 9)**
LC-A-46	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S	-	-	*JM PVC FB* (Min. 60-mil)	*PVC WBMA* or *RSUA* applied 4-inch o.c.	**-202.5 (Lim. 9)**
LC-A-47	Min. 262 psi *LWIC*	*SECUROCK*	*2-Part UIA* applied 12-inch o.c	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch adhered Membrane: *RSUA* applied 12-inch o.c.	**-210 (Lim. 9; Non-HVHZ)**
LC-A-48	Min. 400 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-210 (Lim. 9)**
LC-A-49	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by SeparatoR CGF	*RSUA* applied 12-inch o.c.	*JM PVC FB*	ASTM D 312, Type IV	**-240 (Lim. 9)**
LC-A-50	Min. 550 psi Elastizell with Zell-Fibers	-	-	*JM PVC FB*	*RSUA* applied 6-inch o.c.	**-225 (Lim. 9)**
LC-A-51	Min. 360 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-222.5 (Lim. 9)**
LC-A-52	Min. 360 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC FB* (Min. 60-mil)	*PVC WBMA* or *RSUA* applied 4-inch o.c.	**-222.5 (Lim. 9)**
LC-A-53	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 0.5-inch ENRG Y 3 followed by *DEXcell FA*	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-240 (Lim. 9)**

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-54	Min. 290 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC*	*PVC ASSBA*	**-247.5 (Lim. 9; Non-HVHZ)**
LC-A-55	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-56	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-57	Min. 250 Elastizell with Zell-Crete Fibers (no EPS Board)	-	-	*JM PVC FB*	*RSUA* applied 6-inch o.c.	**-290 (Lim. 9)**
LC-A-58	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1	-	-	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-305 (Lim. 9)**
LC-A-59	Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1	-	-	*JM PVC FB* (Min. 60-mil)	*PVC WBMA* or *RSUA* applied 4-inch o.c.	**-305 (Lim. 9)**
LC-A-60	Min. 290 psi Celcore MF with HS Rheology Admixture	DynaBase PR	DynaSet 1k applied 12-inch o.c.	*JM PVC FB* (Min. 60-mil)	*2-Part UIA-C(S)*	**-322.5 (Lim. 9; Non-HVHZ)**
LC-A-61	Min. 375 psi Concrecel	-	-	*JM PVC FB*	MBR Low VOC Membrane Adhesive	**-342.5 (Lim. 9)**
LC-A-62	Min. 290 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC FB*	*2-Part UIA-C(B)* or *RSUA* applied 12-inch o.c.	**-345 (Lim. 9)**
LC-A-63	Min. 370 psi Concrecel (No EPS Board)	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-375 (Lim. 9)**
LC-A-64	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-65	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-66	Min. 370 psi Concrecel (No EPS board)	-	-	*JM PVC FB*	*RSUA* applied 6-inch o.c.	**-480 (Lim. 9)**
LC-A-67	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)**
LC-A-68	Min. 290 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-502.5 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Concrete Deck* (New or Existing)						
System No.	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LC-A-69	Min. 290 psi Celcore MF with HS Rheology Admixture	-	-	*JM PVC FB*	*ASBA, 2-Part UIA-C(S)* or *PVC WBMA*	**-502.5 (Lim. 9)**

Lightweight Concrete Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)						
System No.	LWIC	Base Sheet	Insulation	Cover Board	Membrane	*MDP* (psf)
LC-AM-1	Min. 200 psi Elastizell with Zell-Crete Fibers	PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field			*JM PVC FB* fully adhered in ASTM D 312 hot asphalt	**-45 (Lim. 7)**
LC-AM-2	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	Min. 0.5-inch *DEXcell FA* adhered in *RSUA* applied 6-inch o.c.	*JM PVC FB* adhered in adhered in *RSUA* applied 6-inch o.c.	**-45 (Lim. 7)**
LC-AM-3	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	ProtectoR HD, SeparatoR CGF, or *SECUROCK* adhered in *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* adhered in adhered in *RSUA* applied 4-inch o.c.	**-45 (Lim. 7)**
LC-AM-4	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DEXcell FA* or *SECUROCK* adhered in *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in ASTM D 312 hot asphalt	**-45 (Lim. 7)**
LC-AM-5	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	ProtectoR HD or SeparatoR CGF adhered in *OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in *PVC WBMA* or *2-Part UIA-C(S)*	**-45 (Lim. 7)**

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

Lightweight Concrete Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)						
System No.	LWIC	Base Sheet	Insulation	Cover Board	Membrane	*MDP* (psf)
LC-AM-6	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DEXcell FA* or *SECUROCK* adhered in *2-Part UIA* applied12-inch o.c.	*JM PVC FB* fully adhered in *2-Part UIA-C(S)*	**-45 (Lim. 7)**
LC-AM-7	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DensDeck Prime* or *SECUROCK* adhered in *OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in *PVC WBMA* or *ASBA*	**-45 (Lim. 7)**

Mechanically Attached Lightweight Concrete Assemblies over *Concrete Deck* (New, Existing, or *Recover*)						
System No.	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP (psf)*
LC-M-1	Min. 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)**
LC-M-2	Min. 350 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	-	-	*JM PVC FB/ DynaFast*	(4) 2.25” VERSA-FAST Fasteners installed in each VERSA-FAST Metal Plate; Plates spaced 10-inch o.c. within the 5-inch wide, torched adhered side laps	**-67.5 (Lim. 9)**

Adhered Lightweight Concrete Assemblies over *Steel Deck* (New or Existing)							
System No.	*Deck Detail*	LWIC	Insulation/Cover Board (Note 7)	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 or ProtectoR Foam	*RSUA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-77.5 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Steel Deck* (New or Existing)							
System No.	*Deck Detail*	LWIC	Insulation/Cover Board (Note 7)	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	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 4-inch o.c. or *PVC WBMA*	**-77.5 (Lim. 9)**
LS-A-6	*G33*	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Min. 1.5-inch ENRGY 3	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*ASBA*	**-77.5 (Lim. 9)**
LS-A-7	*G33*	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: *SECUROCK*	Base and Top layer in *RSUA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-77.5 (Lim. 9)**
LS-A-8	*G33*	Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: *SECUROCK*	Base and Top layer in *RSUA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-77.5 (Lim. 9)**
LS-A-9	*G33*	Min. 300 psi *LWIC*	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*, *PVC WBMA* , or *PVC ASSBA*	**-80 (Lim. 9)**
LS-A-10	*G33*	Min. 300 psi *LWIC*	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-80 (Lim. 9)**
LS-A-11	*G33*	Min. 300 psi *LWIC*	Min. 1.5-inch ENRGY 3	*2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*ASBA*	**-80 (Lim. 9)**
LS-A-12	*G33*	Min. 300 psi *LWIC*	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-80 (Lim. 9)**
LS-A-13	*G33*	Min. 300 psi *LWIC*	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-80 (Lim. 9)**

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

Adhered Lightweight Concrete Assemblies over *Steel Deck* (New or Existing)							
System No.	*Deck Detail*	LWIC	Insulation/Cover Board (Note 7)	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP* (psf)
LS-A-14	*G33, P. L6, S24*	Min. 290 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	-	-	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA,* or *ASBA*	**-90 (Lim. 9)**
LS-A-15	*G33, P. L6, S24*	Min. 290 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	-	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-90 (Lim. 9)**
LS-A-16	*G80*, P, L5, S12	Min. 370 psi Concrecel	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-97.5 (Lim. 9)**
LS-A-17	*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-18	*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-19	*G33*	Min. 310 psi Elastizell with Zell-Crete Fibers	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*2-Part UIA* applied 12-inch o.c	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-127.5 (Lim. 9)**
LS-A-20	*G33*	Min. 310 psi Elastizell with Zell-Crete Fibers	Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: *SECUROCK*	*2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-130 (Lim. 9)**

Lightweight Concrete Assemblies with Adhered Membranes over *Steel Deck* (New or Existing)							
System No.	*Deck Detail*	LWIC	Base Sheet	Insulation	Cover Board	Membrane	*MDP* (psf)
LS-AM-1	*G33, P, L6, S18*	Min. 200 psi Elastizell with Zell-Crete Fibers	PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field			*JM PVC FB* fully adhered in ASTM D 312 hot asphalt	**-45 (Lim. 7)**
LS-AM-2	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	Min. 0.5-inch *DEXcell FA* adhered in *RSUA* applied 6-inch o.c.	*JM PVC FB* adhered in adhered in *RSUA* applied 6-inch o.c.	**-45 (Lim. 7)**

Lightweight Concrete Assemblies with Adhered Membranes over *Steel Deck* (New or Existing)							
System No.	*Deck Detail*	LWIC	Base Sheet	Insulation	Cover Board	Membrane	*MDP* (psf)
LS-AM-3	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	ProtectoR HD, SeparatoR CGF, or *SECUROCK* adhered in *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* adhered in adhered in *RSUA* applied 4-inch o.c.	**-45 (Lim. 7)**
LS-AM-4	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DEXcell FA* or *SECUROCK* adhered in *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in ASTM D 312 hot asphalt	**-45 (Lim. 7)**
LS-AM-5	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	ProtectoR HD or SeparatoR CGF adhered in *OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in *PVC WBMA* or *2-Part UIA-C(S)*	**-45 (Lim. 7)**
LS-AM-6	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DEXcell FA* or *SECUROCK* adhered in *2-Part UIA* applied12-inch o.c.	*JM PVC FB* fully adhered in *2-Part UIA-C(S)*	**-45 (Lim. 7)**
LS-AM-7	*G33, P, L6, S24*	Min. 350 psi Celcore MF with HS Rheology Admixture	DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet Fasteners secured 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field	Min. 0.5-inch ENRGY 3 or ENRGY 3 CGF adhered in *2-Part UIA* applied 12-inch o.c.	*DensDeck Prime* or *SECUROCK* adhered in *OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB* fully adhered in *PVC WBMA* or *ASBA*	**-45 (Lim. 7)**

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

Mechanically Attached Lightweight Concrete Assemblies over *Steel Deck* (New, Existing, or *Recover*)							
System No.	*Deck Detail*	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	*MDP (psf)*
LS-M-1	*G33, P, L5, S15*	Min. 475 psi Celcore MF with HS Rheology Admixture	-	-	*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)**
LS-M-2	*G33, P, L6, S18*	Min. 350 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1	-	-	*JM PVC FB/ DynaFast*	Four (4) 2.25" VERSA-FAST Fasteners installed in each VERSA-FAST Metal Plate; Plates spaced 10-inch o.c. within the 5-inch wide, torched adhered side laps	**-67.5 (Lim. 9)**

Adhered *Recover* Assemblies						
System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-1	BUR or Mod-Bit Roofing with mineral surfacing	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-45 (Lim. 9)**
R-A-2	Smooth SBS Mod-Bit over *Steel Deck,* gypsum, cementitious panel, or treated wood	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	Min. 1-inch ENRGY 3, *DensDeck Prime,* Invinsa*, ProtectoR, SeparatoR, SECUROCK* adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 9)**
R-A-3	Smooth SBS Mod-Bit over *Steel Deck,* gypsum, cementitious panel, or treated wood	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	Min. 1-inch ENRGY 3, *DensDeck Prime, DEXcell FA, ProtectoR, SeparatoR, SECUROCK* adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-45 (Lim. 9)**
R-A-4	BUR or Granular Mod-Bit Roofing over over *Concrete Deck, Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-52.5 (Lim. 9)**
R-A-5	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*SECUROCK* adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*	**-67.5 (Lim. 9)**
R-A-6	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in 2-*Part UIA* spaced 12-inch o.c.	OPTIONAL JM Invinsa applied in 2-*Part UIA* spaced 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-105 (Lim. 9)**

Adhered *Recover* Assemblies						
System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-7	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in 2-*Part UIA* spaced 12-inch o.c.	OPTIONAL JM Invinsa applied in 2-*Part UIA* spaced 12-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-105 (Lim. 9)**
R-A-8	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC, JM PVC SD Plus* or *JM PVC FB*	*PVC WBMA*	**-105 (Lim. 9)**
R-A-9	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	ProtectoR HD adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-105 (Lim. 9)**
R-A-10	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	ProtectoR HD adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*, *PVC MA (LowVOC)*, or *PVC ASSBA*	**-105 (Lim. 9)**
R-A-11	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*SECUROCK* or *DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312 Type IV Asphalt	**-105 (Lim. 9)**
R-A-12	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA* or *ASBA*	**-105 (Lim. 9)**
R-A-13	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*SECUROCK* or *DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-105 (Lim. 9)**
R-A-14	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DEXcell FA* adhered in *RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-105 (Lim. 9)**
R-A-15	BUR or Granular Mod-Bit Roofing over *Steel Deck,* cementitious panel, or treated wood	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DEXcell FA* adhered in *RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*, *PVC WBMA, ASBA* or ASTM D 312 Type IV Asphalt	**-105 (Lim. 9)**

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

Adhered *Recover* Assemblies						
System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-16	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in *UIA* spaced 6-inch o.c. or 2-*Part UIA* spaced 12-inch o.c.	JM Invinsa or ProtectoR HD applied in *UIA* applied spaced 12-inch o.c.	*JM PVC*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA,* or *PVC ASSBA*	**-112.5 (Lim. 9)**
R-A-17	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in *UIA* spaced 6-inch o.c. or 2-*Part UIA* spaced 12-inch o.c.	JM Invinsa or ProtectoR HD applied in *UIA* spaced 12-inch o.c.	*JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 0.83 gal/100ft^2, *PVC WBMA,* or *PVC ASSBA*	**-112.5 (Lim. 9)**
R-A-18	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in *UIA* spaced 6-inch o.c. or 2-*Part UIA* spaced 12-inch o.c.	JM Invinsa or ProtectoR HD applied in *UIA* spaced 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-112.5 (Lim. 9)**
R-A-19	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in *UIA* spaced 6-inch o.c. or 2-*Part UIA* spaced 12-inch o.c.	JM Invinsa applied in *UIA* spaced 12-inch o.c.	*JM PVC FB*	*ASBA*	**-112.5 (Lim. 9)**
R-A-20	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	Min. 1-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA*	**-127.5 (Lim. 9)**
R-A-21	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA* or *ASBA*	**-142.5 (Lim. 9)**
R-A-22	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*ProtectoR* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-142.5 (Lim. 9)**
R-A-23	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*DensDeck Prime* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-142.5 (Lim. 9)**
R-A-24	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*SeparatoR* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-150 (Lim. 9)**
R-A-25	BUR or Granular Mod-Bit Roofing over over *Concrete Deck, Steel Deck,* cementitious panel, or treated wood	Min. 1-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	-	*JM PVC FB*	*2-Part UIA-C(S)* or *RSUA* applied 12-inch o.c.	**-157.5 (Lim. 9)**
R-A-26	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	ProtectoR HD adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA* or *PVC MA (LowVOC)*	**-180 (Lim. 9)**

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

Adhered *Recover* Assemblies						
System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-27	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	ProtectoR HD adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9)**
R-A-28	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	ProtectoR HD adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-180 (Lim. 9)**
R-A-29	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*SECUROCK* or *DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-180 (Lim. 9)**
R-A-30	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*SECUROCK* or *DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-180 (Lim. 9)**
R-A-31	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*SECUROCK* or *DensDeck Prime* adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312 Type IV Asphalt	**-180 (Lim. 9)**
R-A-32	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*ProtectoR* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC* *JM PVC SD Plus*	*PVC WBMA*	**-180 (Lim. 9)**
R-A-33	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	Min. 1-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-187.5 (Lim. 9)**
R-A-34	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*SECUROCK* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-187.5 (Lim. 9)**
R-A-35	BUR over *Concrete Deck*	Min. 1.5-inch *E3*applied in 2-*Part UIA* spaced 12-inch o.c.	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-217.5 (Lim. 9)**
R-A-36	BUR over *Concrete Deck*	Min. 1.5-inch *E3* applied in 2-*Part UIA* spaced 12-inch o.c.	-	*JM PVC SD Plus*	*PVC ASSBA*	**-217.5 (Lim. 9)**
R-A-37	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-217.5 (Lim. 9)**
R-A-38	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	SeparatoR CGF or SeparatoR FR adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*JM PVC SD Plus*	*PVC ASSBA*	**-217.5 (Lim. 9)**
R-A-39	BUR over *Concrete Deck*	-	Min. 1.5-inch *E3* applied in 2-*Part UIA* spaced 12-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-217.5 (Lim. 9)**

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

Adhered *Recover* Assemblies						
System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-40	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DEXcell FA* adhered in *RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-217.5 (Lim. 9)**
R-A-41	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 0.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA, 2-Part UIA-C(B),* or *OSFA* applied 12-inch o.c.	*DEXcell FA* adhered in *RSUA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*, *PVC WBMA* or ASTM D 312 Type IV Asphalt	**-217.5 (Lim. 9)**
R-A-42	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA* applied 12-inch o.c.	-	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-210 (Lim. 9; Non-HVHZ)**
R-A-43	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA* applied 12-inch o.c.	-	*JM PVC FB*	*2-Part UIA-C(S)*	**-210 (Lim. 9; Non-HVHZ)**
R-A-44	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA* applied 12-inch o.c.	*DensDeck Prime* adhered in *RSUA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC WBMA*	**-210 (Lim. 9; Non-HVHZ)**
R-A-45	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA* applied 12-inch o.c.	*DensDeck Prime* adhered in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)* or *PVC WBMA*	**-210 (Lim. 9; Non-HVHZ)**
R-A-46	BUR or Granular Mod-Bit Roofing over *Concrete Deck*	OPTIONAL Min. 1.5-inch ENRGY 3 in *RSUA*, *OSFA* or *2-Part UIA* applied 12-inch o.c.	*DensDeck Prime* or *StormX* in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-217.5 (Lim. 9)**
R-A-47	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*SeparatoR* adhered in *RSUA, 2-Part UIA,* or *OSFA* applied 12-inch o.c.	*JM PVC JM PVC SD Plus*	*PVC WBMA*	**-225 (Lim. 9)**
R-A-48	Smooth SBS Mod-Bit over *Concrete Deck*	Min. 1.5-inch ENRGY 3 adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*DEXcell FA* adhered in *RSUA, 2-Part UIA* or *OSFA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA*	**-255 (Lim. 9)**
R-A-49	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	-	*DensDeck Prime* adhered in *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-285 (Lim. 9; Non-HVHZ)**
R-A-50	Smooth SBS Mod-Bit Roofing over *Steel Deck*	-	-	*JM PVC FB*	*2-Part UIA-C(S)* at 6lbs/100ft^2	**-325 (Lim. 9; HVHZ 0nly)**

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

Adhered *Recover* Assemblies

System No.	*Deck Detail*	Base Insulation (Note 7)	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
R-A-51	Granular Mod-Bit Roofing or Granular BUR over *Steel Deck*	-	-	*JM PVC FB*	*2-Part UIA-C(S)* at 6lbs/100ft^2	**-330 (Lim. 9; HVHZ 0nly)**
R-A-52	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	-	ProtectoR HD adhered in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-400 (Lim. 9)**
R-A-53	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	-	-	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-440 (Lim. 9)**
R-A-54	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	-	*DensDeck Prime* adhered in *RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c.	**-495 (Lim. 9; Non-HVHZ)**
R-A-55	Granular Mod-Bit Roofing or Granular BUR over *Concrete Deck*	-	-	*JM PVC FB*	*2-Part UIA-C(S)* at 6lbs/100ft^2	**-502.5 (Lim. 9)**

Mechanically Fastened *Recover* Assemblies

System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
R-M-1	*Steel Deck (G33, P, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus* or *JM PVC SL*	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)**
R-M-2	*Steel Deck (G33, F1, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus* or *JM PVC SL*	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-45 (Lim. 7)**
R-M-3	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 18-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c.	**-45 (Lim. 7)**
R-M-4	*Steel Deck (G33, F1, L6)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	**-52.5 (Lim. 9)**

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

Mechanically Fastened *Recover* Assemblies

System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
R-M-5	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 12-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c.	**-52.5 (Lim. 7)**
R-M-6	*Steel Deck (G33, F1, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus* or *JM PVC SL*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-60 (Lim. 7)**
R-M-7	*LWIC* over *Steel Deck (G33, F1, L5, S12)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *INSULATION*	*Preliminarily Secured*	*JM PVC FB* (min. 60 mil)	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
R-M-8	*Steel Deck (G33, P, L6)*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	**-60 (Lim. 9)**
R-M-9	*Steel Deck (G33, F1, L6)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*APB Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**
R-M-10	*Steel Deck (G33, F1* or *P, L6)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3* or *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 12-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**
R-M-11	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c.	**-75 (Lim. 7)**

Induction Welded *Recover* Assemblies

System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
R-W-1	*Steel Deck (G33, L6)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3*, or *Cover Board*	*Preliminarily Secured; IW #15 (Steel Deck)* or *IW #14 (Concrete Deck)* secured 12-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**

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	*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; IW #15 (Steel Deck)* or *IW #14 (Concrete Deck)* secured 12-inch o.c. in rows 60-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
R-W-3	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 120-inch o.c.	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
R-W-4	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 18-inch o.c.; Fastener rows max. 60-inch o.c.	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
R-W-5	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#12* or *ISOWELD-#15* spaced 12” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to Isoweld plates	**-45 (Lim. 7)**
R-W-6	*Steel Deck (G33, F1, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3*, or *Cover Board*	*IW #15 (Steel Deck)* or *IW #14 (Concrete Deck)* at a rate of 8 per 4-ft x 8-ft board (staggered) (1 fastener per 4.0-ft^2)	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-52.5 (Lim. 7)**
R-W-7	*Concrete Deck*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	Optional *SECUROCK*	*IW #14* secured at a rate of *8 per 4-ft x 8-ft board Pattern #1* (1 fastener per 4.0-ft^2)	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**
R-W-8	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	Min. 1-inch *E3*, or *Cover Board*	JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 12-inch o.c.; Fastener rows max. 60-inch o.c.	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**
R-W-9	*Steel Deck (G33, F1, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3*, or *Cover Board*	*Preliminarily Secured; IW #15 (Steel Deck)* or *IW #14 (Concrete Deck)* secured 6-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to wweld plates	**-82.5 (Lim. 7)**
R-W-10	*Steel Deck (G33, F1, L6, S24)* or *Concrete Deck*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *E3*, or *Cover Board*	*Preliminarily Secured; IW #15 (Steel Deck)* or *IW #14 (Concrete Deck)* secured 6-inch o.c. in rows 60-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**
R-W-11	Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c.	Min. 1.5-inch *E3* or *EPS* placed between ribs	*Preliminarily Secured* or secured with top layer	OPTIONAL *E3* or *Cover Board*	Attached with *ISOWELD-#15* spaced 6” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to Isoweld plates	**-90 (Lim. 7)**

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

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

Adhered Assemblies over *Steel Deck* (New or Existing)								
System No.	*Deck*	Vapor Barrier	Base Insulation (Note 7)	Middle Insulation	Top Insulation	Membrane	Membrane Attachment	*MDP* (psf)
S-A-1	*G33*	Optional JM Vapor Barrier SA	OPTIONAL Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced 12-inch o.c.	-	Min. 1.5-inch ENRGY 3 applied in *2-Part* UIA or RSUA spaced 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 9; Non-HVHZ)**
S-A-2	*G33*	Optional JM Vapor Barrier SA	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced12-inch o.c.	OPTIONAL Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced12-inch o.c.	Min. 1-inch ENRGY 3 applied in *2-Part UIA* or *RSUA* spaced 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 9; Non-HVHZ)**
S-A-3	*G33*	Optional JM Vapor Barrier SA	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced 12-inch o.c.	OPTIONAL Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced12-inch o.c.	ProtectoR HD or *SECUROCK,* applied in *2-Part UIA, OSFA,* or *RSUA* spaced 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 9; Non-HVHZ)**
S-A-4	*G33*	Optional JM Vapor Barrier SA	Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced 12-inch o.c.	OPTIONAL Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in *2-Part UIA* or *RSUA* spaced12-inch o.c.	ProtectoR HD, *SECUROCK,* or *DensDeck Prime* applied in *2-Part UIA, OSFA,* or *RSUA* spaced 12" o.c.	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA, ASBA,* or *RSUA* applied 12-inch o.c	**-45 (Lim. 9; Non-HVHZ)**

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-1	*G33, P, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-30 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-2	*G33, P, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-30 (Lim. 7; Non-HVHZ)**
S-AM-3	*G33, P, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*JM PVC FB*	*RSUA* applied 12-inch o.c.or *2-Part UIA-C(S)*	**-30 (Lim. 7; Non-HVHZ)**
S-AM-4	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	*Fastener & Plates* secured 1 fastener per 5.3ft^2	*JM PVC*	*PVC MA (LowVOC)*	**-37.5 (Lim. 9; Non-HVHZ)**
S-AM-5	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch Fesco Foam	*Fastener & Plates* secured 1 fastener per 5.3ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-37.5 (Lim. 9; Non-HVHZ)**
S-AM-6	*G33*	*ProtectoR* attached with *Fastener & Plates* at *8 per 4-ft x 8-ft board Pattern #2*; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*ProtectoR*, *Retro-Fit*, *RetroPlus*, SeparatoR CGF, SeparatoR FR, *INVINSA*, *DensDeck, DensDeck Prime, DEXcell FA,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC*, or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-37.5 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-7	*G33*	*ProtectoR* attached with *Fastener & Plates* at *8 per 4-ft x 8-ft board Pattern #2*; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*ProtectoR*, *INVINSA*, *DensDeck Prime, DEXcell FA* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
S-AM-8	*G33*	*ProtectoR* attached with *Fastener & Plates* at *8 per 4-ft x 8-ft board Pattern #2*; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*ProtectoR*, *Retro-Fit*, *RetroPlus*, SeparatorR CGF, SeparatoR FR, *INVINSA*, *DensDeck, DensDeck Prime, DEXcell FA,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-37.5 (Lim. 7; Non-HVHZ)**
S-AM-9	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured *8 per 4-ft x 8-ft board Pattern 3*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-10	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 *per 4-ft x 8-ft board Pattern 3*	*JM PVC FB*	ASTM D 312 Type IV Asphalt, *RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-37.5 (Lim. 7; Non-HVHZ)**
S-AM-11	*G33*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-12	*G33*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-13	*G33*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	*ProtectoR*	*Fastener & Plates* secured 1 fastener per 4ft^2	*JM PVC FB*	*RSUA* applied 12-inch o.c.or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-14	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	*Fastener & Plates* secured 1 fastener per 5.3ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-15	*G33, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 7)**
S-AM-16	*G33, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c or *PVC WBMA* or *ASBA*	**-45 (Lim. 7)**
S-AM-17	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c.	**-45 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-18	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	*Fastener & Plates* secured *8 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *JM PVC SD Plus*	*PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-19	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured 4 *per 4-ft x 8-ft board*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-20	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured 4 *per 4-ft x 8-ft board*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-21	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*StormX*	*RSUA* or applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-22	*G33*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 2.67ft^2	*StormX*	*RSUA* or applied 12-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-23	*G33*	Min. 0.5-inch DensDeck Prime secured with *DF* or *TF at* 1 fastener per 4ft^2 over OPTIONAL *Vapor Barrier*	Min. 1.5-inch ENRGY 3	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	OPTIONAL *DensDeck Prime*	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-24	*G33*	Min. 0.5-inch DensDeck Prime secured with *DF* or *TF at* 1 fastener per 4ft^2 over OPTIONAL *Vapor Barrier*	Min. 1.5-inch ENRGY 3	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	*SECUROCK* or ProtectoR HD	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-25	*G33*	Min. 0.5-inch DensDeck Prime secured with *DF* or *TF at* 1 fastener per 4ft^2 over OPTIONAL *Vapor Barrier*	Min. 1.5-inch ENRGY 3	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	OPTIONAL ProtectoR HD, *SECUROCK,* or *DensDeck Prime*	*2-Part UIA, OSFA,* or *RSUA* applied 12" o.c.	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA, ASBA,* or *RSUA* applied 12-inch o.c	**-45 (Lim. 7; Non-HVHZ)**
S-AM-26	*G33*	Optional *Vapor Barrier*	Min. 1.5-inch *E3*	*Fasteners & Plates* secured 1 fastener per 2.67ft^2	Min. 1-inch ENRGY 3	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-27	*G33*	Optional *Vapor Barrier*	Min. 1.5-inch *E3*	*Fasteners & Plates* secured 1 fastener per 2.67ft^2	Min. 1-inch ENRGY 3	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c or *PVC WBMA* or *ASBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-28	*G33*	Optional *Vapor Barrier*	Min. 1.5-inch *E3*	*Fasteners & Plates* secured 1 fastener per 2.67ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-29	*G33*	Optional *Vapor Barrier*	Min. 1.5-inch *E3*	*Fasteners & Plates* secured 1 fastener per 2.67ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-30	*G33*	Optional *Vapor Barrier*	Min. 2-inch *E3*	*Fasteners & Plates* secured 1 fastener per 4ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-31	*G33*	Optional *Vapor Barrier*	Min. 2-inch *E3*	*Fasteners & Plates* secured 1 fastener per 4ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c or *PVC WBMA* or *ASBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-32	*G33*	Optional *Vapor Barrier*	Min. 2-inch *E3*	*Fasteners & Plates* secured 1 fastener per 4ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
S-AM-33	*G33*	Optional *Vapor Barrier*	Min. 2-inch *E3*	*Fasteners & Plates* secured 1 fastener per 4ft^2	Min. 1-inch *E3*	*2-Part UIA* or *RSUA* applied 12" o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-34	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-52.5 (Lim. 7)**
S-AM-35	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2 or *PVC ASSBA*	**-52.5 (Lim. 7)**
S-AM-36	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
S-AM-37	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2 or *PVC ASSBA*	**-52.5 (Lim. 7)**
S-AM-38	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
S-AM-39	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-52.5 (Lim. 7)**
S-AM-40	*G33, F2, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 1.5-inch *E3* or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-52.5 (Lim. 7)**
S-AM-41	*G33, F1, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA*, or *PVC ASSBA*	**-52.5 (Lim. 7)**
S-AM-42	*G33, F1, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
S-AM-43	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *8 per 4-ft x 8-ft board Pattern #3*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA*, or *PVC ASSBA*	**-52.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-44	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *8 per 4-ft x 8-ft board Pattern #3*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
S-AM-45	*G40, F1, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	*Fastener & Plates* secured 1 fastener per 2ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-52.5 (Lim. 7)**
S-AM-46	*G40, F1, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3	*Fastener & Plates* secured 1 fastener per 2ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-52.7 (Lim. 7)**
S-AM-47	*G33, F2W, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.00ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2 or *PVC ASSBA*	**-60 (Lim. 7)**
S-AM-48	*G33, F2W, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.00ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
S-AM-49	*G33, F1, L6, S30*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 0.5-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-60 (Lim. 7)**
S-AM-50	*G33, F1, L6, S30*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 0.5-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* applied at 1-1.1 gal/100ft^2) or *PVC ASSBA*	**-60 (Lim. 7)**
S-AM-51	*G33, F1, L6, S30*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch ENRGY 3	*Fastener & Plates* secured at a rate of 1 fastener per 1.78ft^2	Min 0.5-inch *SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
S-AM-52	*G33, P, L6, S20*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*SECUROCK*	*DF* or *Fastener & Plates* secured 1 fastener per 1.78ft^2	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-60 (Lim. 7)**
S-AM-53	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-54	*G33, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
S-AM-55	*G33, F2, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-60 (Lim. 7)**
S-AM-56	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	OMG #12 Standard Roofgrip fasteners and 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured *16 per 4-ft x 8-ft board*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-60 (Lim. 7)**
S-AM-57	*G33, F1, L6, S24*	DynaBase HW adhered to min. 0.5-inch *DEXcell FA* secured with *UF at* 1 fastener per 2.0ft^2	Min. 1.5-inch ENRGY 3	*2-Part UIA* or *RSUA* applied 6" o.c.	Min. 0.5-inch *DEXcell FA* or *DensDeck Prime*	*2-Part UIA, OSFA,* or *RSUA* applied 6" o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*	**-60 (Lim. 7)**
S-AM-58	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	OMG #12 Standard Roofgrip fasteners and 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured *16 per 4-ft x 8-ft board*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-60 (Lim. 7)**
S-AM-59	*G33, F2W, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & 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)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-60	*G33, F2W, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Fastener & Plates* secured 1 fastener per 1ft^2	*SECUROCK*	*OSFA*, *RSUA* or *2-Part UIA* applied 6-inch o.c.	Base Ply: DynaBase HW Membrane: *JM PVC FB*	Base Ply: Torch Adhered Membrane: *RSUA* applied 12-inch o.c.	**-67.5 (Lim. 7)**
S-AM-61	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	*Fastener & Plates* secured 1 fastener per 2.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-67.5 (Lim. 7)**
S-AM-62	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	*Fastener & Plates* secured 1 fastener per 2.0ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-67.5 (Lim. 7)**
S-AM-63	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA*, *RSUA*, *2-Part UIA-C(B)*, or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*RSUA* 12-inch o.c.	**-67.5 (Lim. 7)**
S-AM-64	*G33, F1, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*, *PVC WBMA*, or *PVC ASSBA*	**-67.5 (Lim. 7)**
S-AM-65	*G33, F1, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.78ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-67.5 (Lim. 7)**
S-AM-66	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *12 per 4-ft x 8-ft board*	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)*, *PVC WBMA*, or *PVC ASSBA*	**-67.5 (Lim. 7)**
S-AM-67	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *12 per 4-ft x 8-ft board*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-67.5 (Lim. 7)**
S-AM-68	*G33, F, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3*, *E3 C1*, or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC* or *PVC ASSBA*	**-75 (Lim. 7)**
S-AM-69	*G33, F, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3, E3 C1,* or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-75 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-70	*G33, F, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-75 (Lim. 7)**
S-AM-71	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 2-inch Invinsa Foam	*Fastener & Plates* secured 1 fastener per 2.0ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-75 (Lim. 7)**
S-AM-72	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *SECUROCK*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-75 (Lim. 7)**
S-AM-73	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *14 per 4-ft x 8-ft board*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2 or *PVC ASSBA*	**-75 (Lim. 7)**
S-AM-74	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *14 per 4-ft x 8-ft board*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-75 (Lim. 7)**
S-AM-75	*G80, F1W, L6, S24*	Min. 0.5-inch *DEXcell FA; Fastener & Plates* secured 1 fastener per 1.0ft^2; JM Vapor Barrier SA self-adhered over SA Primer	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA;* Applied 6-inch o.c.	Min. 0.5-inch *DEXcell FA*	*RSUA* applied 6-inch o.c.	*JM PVC FB* (Min. 60 mil)	*RSUA* applied 6-inch o.c. or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
S-AM-76	*G33, F2, L6, S24*	Min. 0.5-inch *DEXcell FA* secured with top layer*;* JM Vapor Barrier SA self-adhered	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC FB* (Min. 60 mil)	*RSUA* applied 4-inch o.c. or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
S-AM-77	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3*, *E3 C1,* or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-82.5 (Lim. 7)**
S-AM-78	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-79	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-82.5 (Lim. 7)**
S-AM-80	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2 or *PVC ASSBA*	**-82.5 (Lim. 7)**
S-AM-81	*G33, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
S-AM-82	*G33, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-82.5 (Lim. 7)**
S-AM-83	*G33, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV	**-82.5 (Lim. 7)**
S-AM-84	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-82.5 (Lim. 7)**
S-AM-85	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC ASSBA*	**-82.5 (Lim. 7)**
S-AM-86	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
S-AM-87	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.6ft^2	Min. 1.5-inch *E3* or *E3 C1*	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-82.5 (Lim. 7)**
S-AM-88	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *12 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2 or *PVC ASSBA*	**-82.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-89	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *12 per 4-ft x 8-ft board Pattern #2*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
S-AM-90	*G80, F2, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.625-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC WBMA*	**-90 (Lim. 7)**
S-AM-91	*G80, F2, L6, S12*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min 0.625-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-90 (Lim. 7)**
S-AM-92	*G33, P, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fasteners & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*RSUA* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-90 (Lim. 7)**
S-AM-93	*G33, P, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fasteners & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*RSUA* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-90 (Lim. 7)**
S-AM-94	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *18 per 4-ft x 8-ft board Pattern #1*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-97.5 (Lim. 7)**
S-AM-95	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *18 per 4-ft x 8-ft board Pattern #1*	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-97.5 (Lim. 7)**
S-AM-96	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-105 (Lim. 7)**
S-AM-97	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR	*Fastener & Plates* secured 1 fastener per 1.33ft^2	*JM PVC SD Plus*	*PVC MA (LowVOC)*	**-105 (Lim. 7)**
S-AM-98	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-112.5 (Lim. 7)**
S-AM-99	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DensDeck Prime*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-112.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-100	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *20 per 4-ft x 8-ft board* or *18 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* applied at 1.0 gal/100ft^2	**-112.5 (Lim. 7)**
S-AM-101	*G33, F1, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	*StormX*	*OMG Fasteners & Plates* secured *20 per 4-ft x 8-ft board* or *18 per 4-ft x 8-ft board Pattern #2*	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-112.5 (Lim. 7)**
S-AM-102	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3*, *E3 C1*, or ProtectoR Foam	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
S-AM-103	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION*	Simultaneously secured with top layer	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1.0ft^2	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-120 (Lim. 7)**
S-AM-104	*G80, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
S-AM-105	*G80, F1W, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	Min. 1.5-inch ENRGY 3	*OSFA*, *RSUA* or *2-Part UIA* applied 4-inch o.c.	*JM PVC FB*	ASTM D 312 Type IV Asphalt	**-120 (Lim. 7)**
S-AM-106	*G80, F2, L6, S24*	OPTIONAL *Vapor Barrier*	Min. 2-inch *E3* or *E3 C1*	*Fastener & Plates* secured 1 fastener per 1ft^2	ProtectoR HD	*OSFA, RSUA, 2-Part UIA-C(B),* or *2-Part UIA* applied 4-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-120 (Lim. 7)**
S-AM-107	*G80, F2, L6, S18*	OPTIONAL *Vapor Barrier*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1ft^2	*JM PVC FB*	*2-Part UIA-C(S)*	**-135 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Steel Deck* (New, Existing, or *Recover*)									
System No.	*Deck Detail*	Thermal/ Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
S-AM-108	*G80, F2, L6, S24*	Min. 0.5-inch *DEXcell FA* secured with top layer; JM Vapor Barrier SA self-adhered	Min. 1.5-inch *E3*	Simultaneously secured with top layer	Min. 0.5-inch *DEXcell FA*	*Fastener & Plates* or *DF* secured 1 fastener per 1.0ft^2	*JM PVC FB*	*RSUA* applied 4-inch o.c.	**-142.5 (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, H1, L6, SH24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	JM PVC (Min. 60 mil)	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Fastener rows max. 138-inch o.c.	**-30 (Lim. 7; Non-HVHZ)**
S-M-2	*G33, L6*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *Extra HL Fastener & Plates*; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	**-37.5 (Lim. 7; Non-HVHZ)**
S-M-3	*G33, F1* or *P, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*, *JM PVC SD Plus,* or *JM PVC SL*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	**-45 (Lim. 7)**
S-M-4	*G33, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus* or *JM PVC SL*	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-45 (Lim. 7)**
S-M-5	*G33, F1* or *P, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c.	**-45 (Lim. 7)**
S-M-6	*G80, F1, L6, S30*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	**-45 (Lim. 7)**
S-M-7	*G33, P, L6*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 72-inch o.c.	**-45 (Lim. 7)**

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

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-8	*G33, H1, L6, SH24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	JM PVC (Min. 60 mil)	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Fastener rows max. 138-inch o.c.	**-52.5 (Lim. 7)**
S-M-9	*G80, F1, L6, S30*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* (Min. 60 mil)	Attached in-lap 12-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c.	**-52.5 (Lim. 7)**
S-M-10	*G33, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c.	**-52.5 (Lim. 9)**
S-M-11	*G33, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC SD Plus* or *JM PVC SL*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c.	**-60 (Lim. 7)**
S-M-12	*G80, F1, L6, S30*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c.	**-60 (Lim. 7)**
S-M-13	*G80, F1, L6, S30*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* or *JM PVC FB*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 4.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
S-M-14	*G80, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
S-M-15	*G80, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c.	**-60 (Lim. 7)**
S-M-16	*G33, P, L6*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*APB Fasteners & Plates* spaced 6-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**

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

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-17	*G33, P, L6*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	*HL Fasteners & Plates* spaced 12-inch o.c within each min. 4-inch heat welded side lap.	**-60 (Lim. 9)**
S-M-18	*G33, P, L6*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC FB/ DynaFast*	High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c.	**-60 (Lim. 9)**
S-M-19	*G80, F1, L6, S30*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC* (Min. 60 mil)	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c.	**-75 (Lim. 7)**

Induction 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; IW #15* secured 12-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
S-W-2	*G33, SD1W, L6, SDL24*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced 12” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
S-W-3	*G80, F1, L6, S36*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#12* or *ISOWELD-#15* spaced in a *2-ft x 3-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
S-W-4	*G33, P, L6, S36*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced in a *2-ft x 3-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**

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-5	22 GA Type N; *G80, H1, L12, HS24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *IW #15* at a rate of *6 per 4-ft x 8-ft board Type N;* Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
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; IW #15* secured 12-inch o.c. in rows 60-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
S-W-7	*G33, SD1W, L6, SDL24*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced 24” o.c. in rows 24” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
S-W-8	*G80, F1, L6, S36*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#12* or *ISOWELD-#15* spaced 12” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-45 (Lim. 7)**
S-W-9	*G33, P, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*IW #15* in a *2-ft x 2-ft staggered grid* pattern	*JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-52.5 (Lim. 7)**
S-W-10	22 GA Type N; *G80, H1, L12, HS24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *IW #15* at a rate of *8 per 4-ft x 8-ft board Type N;* Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-52.5 (Lim. 7)**
S-W-11	*G33, SD1W, L6, SDL24*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced 6” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-60 (Lim. 7)**
S-W-12	*G33, F1, L6, S18*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*IW #15* at a rate of *8 per 4-ft x 8-ft board Pattern #1* (1 fastener per 4.0-ft^2)	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**
S-W-13	*G33, SD1W, L6, SDL24*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* or *ISOWELD-#14* spaced 18” o.c. in rows 24” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-67.5 (Lim. 7)**

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

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-14	*G33, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #15* secured 6-inch o.c. in rows 72-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-82.5 (Lim. 7)**
S-W-15	*G33, P, L6, S36*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced in a *1.5-ft x 2-ft staggered grid*	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-82.5 (Lim. 7)**
S-W-16	*G33, SD1W, L6, SDL24*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced 18” o.c. in rows 18” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-82.5 (Lim. 7)**
S-W-17	*G33, F1, L6, S24*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured; IW #15* secured 6-inch o.c. in rows 60-inch o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**
S-W-18	*G33, F2W, L6*	OPTIONAL *INSULATION* under min. 1-inch *E3*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*IW #15* at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft^2)	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**
S-W-19	*G33, F1, L5, S30*	*INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	Attached with *ISOWELD-#15* spaced 6” o.c. in rows 60” o.c.	*JM PVC JM PVC SD Plus* (Min. 60 mil)	Induction welded to weld plates	**-90 (Lim. 7)**

Adhered Assemblies over *Wood Deck* (New or Existing)								
System No.	*Deck Detail*	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-A-1	*T7/16O, L24*	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA* applied12-inch o.c.	*DEXcell FA*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-45 (Lim. 9; Non-HVHZ)**
W-A-2	*T7/16O, L24*	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA* applied12-inch o.c.	*DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-45 (Lim. 9; Non-HVHZ)**
W-A-3	*T7/16O, L24*	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA* applied12-inch o.c.	*DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA,* ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-45 (Lim. 9; Non-HVHZ)**

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

Adhered Assemblies over *Wood Deck* (New or Existing)								
System No.	*Deck Detail*	Base Insulation (Note 7)	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-A-4	*T7/16O, L24*	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA* applied 12-inch o.c.	-	-	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC),* or *PVC ASSBA*	**-45 (Lim. 9; Non-HVHZ)**
W-A-5	*T7/16O, L24*	Min. 1.5-inch ENRGY 3	*RSUA* or *2-Part UIA* applied 12-inch o.c.	-	-	*JM PVC* or *PVC SD Plus*	*PVC WBMA*	**-45 (Lim. 9; Non-HVHZ)**
W-A-6	*T7/16O, L24*	Min. 1.5-inch *E3*	*RSUA* or *2-Part UIA* applied 12-inch o.c.	-	-	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA* or *ASBA*	**-45 (Lim. 9; Non-HVHZ)**

Assemblies with Adhered Membranes over Insulated *Wood Deck* (New, Existing, or *Recover*)								
System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-AM-1	*T7/16O, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch *E3* or *E3 C1*	Trufast VERSA-FAST fastener and UltraFast Metal Plate (Round) secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-30 (Lim. 7; Non-HVHZ)**
W-AM-2	*T7/16O, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch *E3* or *E3 C1*	Trufast VERSA-FAST fastener and UltraFast Metal Plate (Round) secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA, ASBA,* or *RSUA* applied 12-inch o.c	**-30 (Lim. 7; Non-HVHZ)**
W-AM-3	*T7/16O, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	*DensDeck Prime*	Trufast VERSA-FAST fastener and UltraFast Metal Plate (Square) secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-4	*T7/16O, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	*DensDeck Prime*	Trufast VERSA-FAST fastener and UltraFast Metal Plate (Square) secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC FB*	*PVC WBMA,* ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-37.5 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Wood Deck* (New, Existing, or *Recover*)								
System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-AM-5	*T19/32O, L24*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	*DEXcell FA*	*UltraFast Fasteners & Plates (Square)* at a rate of 6 per 4-ft x 4-ft board (1 fastener per 2.67-ft^2)	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-6	*T7/16O* or *T15/32P, L24, N6*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	ProtectoR HD	*UF* at a rate of 1 fastener per 2-ft^2	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-7	*T7/16O* or *T15/32P, L24, N6*	OPTIONAL *INSULATION* under min. 1.5-inch *E3*	*Preliminarily Secured* or secured with top layer	ProtectoR HD	*UF* at a rate of 1 fastener per 2-ft^2	*JM PVC FB*	*RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-8	*T15/32P, L24*	-	-	ProtectoR HD	*RSUA* applied 12-inch o.c.	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-9	*T15/32P, L24*	-	-	ProtectoR HD	*RSUA* applied 12-inch o.c.	*JM PVC FB*	*RSUA* applied 12-inch o.c. or *2-Part UIA-C(S)*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-10	*19/32P, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	*DF, TF* or *UF* secured 1 fastener per 4ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-11	*19/32P, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 FR	*DF, TF* or *UF* secured 1 fastener per 4ft^2	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA, ASBA,* or *RSUA* applied 12-inch o.c	**-37.5 (Lim. 7; Non-HVHZ)**
W-AM-12	*T7/16O* or *T15/32P, L24*	OPTIONAL *INSULATION*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch ENRGY 3 or ProtectoR Foam	*Fastener & Plates* at a rate of *16 per 4-ft x 8-ft board* (1 fastener per 2-ft^2)	*JM PVC* or *JM PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-13	*T7/16O* or *T15/32P, L24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3* or *E3 C1*	JM High Load Fasteners and *UltraFast Plates* secured at a rate of *16 per 4-ft x 8-ft board*	*DEXcell FA*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-45 (Lim. 7; Non-HVHZ)**

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

Assemblies with Adhered Membranes over Insulated *Wood Deck* (New, Existing, or *Recover*)								
System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-AM-14	*T7/16O* or *T15/32P, L24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3* or *E3 C1*	JM High Load Fasteners and *UltraFast Plates* secured at a rate of *16 per 4-ft x 8-ft board*	*DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA,* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-15	*T7/16O* or *T15/32P, L24*	OPTIONAL *INSULATION* under min. 1.5-inch *E3* or *E3 C1*	JM High Load Fasteners and *UltraFast Plates* secured at a rate of *16 per 4-ft x 8-ft board*	*DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 12-inch o.c.	*JM PVC FB*	*PVC WBMA,* ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-16	*19/32P, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch *E3* or *E3 C1*	*DF* or *TF* secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC), PVC WBMA* or *PVC ASSBA*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-17	*19/32P, L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 1.5-inch *E3* or *E3 C1*	*DF* or *TF* secured *12 per 4-ft x 8-ft board Pattern #1*	*JM PVC FB*	*2-Part UIA-C(S), PVC WBMA, ASBA,* or *RSUA* applied 12-inch o.c	**-45 (Lim. 7; Non-HVHZ)**
W-AM-18	*15/32O* TECO rated, *L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	*DEXcell FA*	All Purpose Fasteners and *UltraFast Plates* secured 1 fastener per 2.67ft^2	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-19	*15/32O* TECO rated, *L24*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	*DEXcell FA*	All Purpose Fasteners and *UltraFast Plates* secured 1 fastener per 2.67ft^2	*JM PVC FB* (Min. 60 mil)	*RSUA* applied 4-inch o.c. or *2-Part UIA-C(S)*	**-45 (Lim. 7; Non-HVHZ)**
W-AM-20	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-52.5 (Lim. 7)**
W-AM-21	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	*JM PVC FB*	*2-Part UIA-C(S)* or ASTM D 312 Type IV Asphalt	**-52.5 (Lim. 7)**
W-AM-22	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	Min. 0.5-inch ProtectoR HD, *DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-52.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Wood Deck* (New, Existing, or *Recover*)								
System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-AM-23	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	Min. 0.5-inch ProtectoR HD, *DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC ASSBA*	**-52.5 (Lim. 7)**
W-AM-24	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-52.5 (Lim. 7)**
W-AM-25	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *16 per 4-ft x 8-ft board*	Min. 1.5-inch *E3*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-52.5 (Lim. 7)**
W-AM-26	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *DEXcell FA*	JM UltraFast Plate Metal Flat and All Purpose Fastener secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-75 (Lim. 7)**
W-AM-27	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *DEXcell FA*	JM UltraFast Plate Metal Flat and All Purpose Fastener secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC FB*	*2-Part UIA-C(S)*	**-75 (Lim. 7)**
W-AM-28	*T19/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *DEXcell FA*	JM UltraFast Plate Metal Flat and All Purpose Fastener secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-82.5 (Lim. 7)**
W-AM-29	*T19/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 0.5-inch *DEXcell FA*	JM UltraFast Plate Metal Flat and All Purpose Fastener secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC FB*	*2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
W-AM-30	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-82.5 (Lim. 7)**
W-AM-31	*T15/32P, L24, N6*	Optional *INSULATION* and/or *Vapor Barrier*	*Preliminarily Secured* or secured with top layer	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	*JM PVC FB*	ASTM D 312 Type IV Asphalt or *2-Part UIA-C(S)*	**-82.5 (Lim. 7)**

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

Assemblies with Adhered Membranes over Insulated *Wood Deck* (New, Existing, or *Recover*)								
System No.	*Deck Detail*	Base Insulation	Base Insulation Attachment	Top Insulation or Coverboard	Top Insulation or Coverboard Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-AM-32	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	Min. 0.5-inch ProtectoR HD, *DensDeck Prime, DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)*	**-82.5 (Lim. 7)**
W-AM-33	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	Min. 0.5-inch ProtectoR HD, *DensDeck Prime,* or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC ASSBA*	**-82.5 (Lim. 7)**
W-AM-34	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	Min. 0.5-inch ProtectoR HD, *DEXcell FA*, or *SECUROCK*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC FB*	*2-Part UIA-C(S)*	**-82.5 (Lim. 7)**
W-AM-35	*T15/32P, L24, N6*	Min. 2-inch *E3*	*Fasteners & Plates* secured *24 per 4-ft x 8-ft board Pattern #2*	Min. 1.5-inch *E3*	*OSFA, RSUA,* or *2-Part UIA* applied 6-inch o.c.	*JM PVC* or *PVC SD Plus*	*PVC MA (LowVOC)* or *PVC ASSBA*	**-82.5 (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, L25*	As required	Min. 0.25-inch *INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 6-inch o.c. with *HL Fasteners & Plates*; Fastener rows max. 72-inch o.c.	**-37.5 (Lim. 7; Non-HVHZ)**
W-M-2	*T15/32P, L24, N6*	As required	Min. 0.25-inch *INSULATION*	*Preliminarily Secured* or secured with top layer	OPTIONAL *Cover Board*	*Preliminarily Secured*	*JM PVC*	Attached in-lap 12-inch o.c. with All Purpose Fasteners and High Load Plates through deck into wood supports; Fastener shall have sufficient length to penetrate min. 1.5-inch into wood supports; Fastener rows max. 72-inch o.c.	**-45 (Lim. 7)**

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

Induction Welded Assemblies over *Wood Deck* (New or Existing)									
System No.	*Deck Detail*	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	*MDP* (psf)
W-W-1	*T7/16O* or *T15/32P, L24*	As required	Min. 1-inch *E3* or *E3 C1*	Loose laid	OPTIONAL *Cover Board*	*IW* (min. 1.5-inch embedment into wood supports) secured max. 48-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	*JM PVC* (Min. 60 mil)	Induction welded to weld plates	**-37.5 (Lim. 7; Non-HVHZ)**
W-W-2	*T19/32P, L24*	As required	Min. 0.5-inch *INSULATION*	Loose laid	OPTIONAL *Cover Board*	*IW #15* secured at a rate of 1 fastener per 5.33ft^2	*JM PVC*	Induction welded to weld plates	**-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*	*IW* (min. 1.5-inch embedment into wood supports) secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c.	*JM PVC* (Min. 60 mil)	Induction welded to Weld plates	**-52.5 (Lim. 7)**

END OF REPORT