



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

Johns Manville
P.O. Box 5108
Denver, CO 80217
(303) 978-4879

Evaluation Report J8230.11.07-R11
FL9930-R11
Date of Issuance: 11/14/2007
Revision 11: 02/11/2021

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: JM PVC Single Ply Roof Systems

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

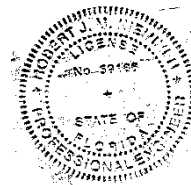
ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5, plus a 33-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 02/11/2021. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Single Ply Roof Systems

Compliance Statement: JM PVC Single Ply Roof Systems, as produced by the Johns Manville, have demonstrated compliance with the following sections of the 7th Edition (2020) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1504.3.1	Wind resistance	FM 4474	2011
1504.6	Physical properties	ASTM G154	2012
1504.7	Impact resistance	FM 4470	2016
1507.10.2	Material standard	ASTM D2178	2015
1507.10.2	Material standard	ASTM D4601	2012
1507.11.2	Material standard	ASTM D6162	2015
1507.11.2	Material standard	ASTM D6163	2015
1507.11.2	Material standard	ASTM D6164	2011
1507.13.2	Material standard	ASTM D4434	2012

3. REFERENCES:

Entity	Examination	Reference	Date
ACRC, LLC (TST4671)	TAS 114	06-045	12/15/2006
ACRC, LLC (TST4671)	TAS 114	14-026	11/19/2014
ACRC, LLC (TST4671)	TAS 114	14-028	11/19/2014
ACRC, LLC (TST4671)	TAS 114	14-035	11/25/2014
ACRC, LLC (TST4671)	TAS 114	14-042	12/04/2014
ACRC, LLC (TST4671)	TAS 114	14-043	12/04/2014
ERD (TST 6049)	FM 4470 / TAS 114	J45020.09.13-1-R1	09/12/2013
ERD (TST 6049)	FM 4470 / TAS 114	J45020.09.13-2-R1	09/12/2013
ERD (TST 6049)	FM 4474	SC7565.01.15-2	01/21/2015
ERD (TST 6049)	FM 4474	JM-SC11320.03.16	03/10/2016
ERD (TST 6049)	FM 4474	JM-SC12145.02.17	02/06/2017
ERD (TST 6049)	FM 4474	JM-SC13465.04.17	04/19/2017
ERD (TST 6049)	FM 4474	JM-SC13465.08.17	08/25/2017
FM Approvals (TST1867)	FM 4470	3009502	12/21/2000
FM Approvals (TST1867)	FM 4470	3008869	03/19/2001
FM Approvals (TST1867)	FM 4470	3012321	07/29/2002
FM Approvals (TST1867)	FM 4470	Letter J.I. 3014692	12/20/2002
FM Approvals (TST1867)	FM 4470	3015444	07/11/2003
FM Approvals (TST1867)	FM 4470	3014692	08/05/2003
FM Approvals (TST1867)	FM 4470	3014751	08/27/2003
FM Approvals (TST1867)	FM 4470	3018579	10/09/2003
FM Approvals (TST1867)	FM 4470	3016629	12/12/2003
FM Approvals (TST1867)	FM 4470/4474	3018807	06/25/2004
FM Approvals (TST1867)	FM 4470/4474	3025881	08/09/2006
FM Approvals (TST1867)	FM 4470/4474	3030351	08/01/2007
FM Approvals (TST1867)	FM 4470/4474	Product Revision 797	09/07/2007
FM Approvals (TST1867)	FM 4470/4474	797-03290-267	11/02/2007
FM Approvals (TST1867)	FM 4470/4474	3028040	11/14/2007
FM Approvals (TST1867)	FM 4470/4474	797-03350-267	12/10/2007
FM Approvals (TST1867)	FM 4470/4474	797-03425-267	01/16/2008
FM Approvals (TST1867)	FM 4470/4474	3035191	05/20/2009
FM Approvals (TST1867)	FM 4470/4474	3034810	09/10/2009
FM Approvals (TST1867)	FM 4470/4474	3035538	10/02/2009
FM Approvals (TST1867)	FM 4470/4474	3037110	10/02/2009
FM Approvals (TST1867)	FM 4470/4474	3037540	10/20/2010

Entity	Examination	Reference	Date
FM Approvals (TST1867)	FM 4470/4474	3043824	04/06/2012
FM Approvals (TST1867)	FM 4470/4474	3044716	10/19/2012
FM Approvals (TST1867)	FM 4470/4474	3046174	04/03/2013
FM Approvals (TST1867)	FM 4470/4474	3056303	11/05/2015
FM Approvals (TST1867)	FM 4470/4474	3056049	01/13/2016
FM Approvals (TST1867)	FM 4470/4474	3058374	04/13/2016
FM Approvals (TST1867)	FM 4470/4474	3055845	05/25/2016
FM Approvals (TST1867)	FM 4470/4474	3058201	08/29/2016
FM Approvals (TST1867)	FM 4470/4474	3060138	01/11/2017
FM Approvals (TST1867)	FM 4470/4474	PR449524	12/12/2018
FM Approvals (TST1867)	FM 4470/4474	PR452580	09/24/2019
MTI (TST2508)	ASTM D4434	NX21J0A	06/01/2011
MTI (TST2508)	ASTM D4434	NX21JOB	07/20/2011
MTI (TST2508)	ASTM D4434	CX23G3A	07/16/2015
PRI (TST 5878)	ASTM D6163	JMC-065-02-01	01/25/2012
PRI (TST 5878)	ASTM D2178	JMC-070-02-01	03/04/2012
PRI (TST 5878)	ASTM D2178	JMC-071-02-01	03/04/2012
PRI (TST 5878)	ASTM D6164	JMC-075-02-04.2	03/12/2012
PRI (TST 5878)	ASTM D4601	JMC-072-02-02	06/04/2012
PRI (TST 5878)	ASTM D4601	JMC-093-02-01	08/02/2012
PRI (TST 5878)	ASTM D6163	JMC-171-02-01	09/03/2013
PRI (TST 5878)	ASTM D6163	JMC-171-02-01	09/03/2013
PRI (TST 5878)	ASTM D6163	JMC-171-02-02	09/03/2013
PRI (TST 5878)	FM 4470/4474	JMC-163-02-01	09/06/2013
PRI (TST 5878)	ASTM D6164	JMC-171-02-03	09/10/2013
PRI (TST 5878)	ASTM D6164	JMC-171-02-011	09/25/2013
PRI (TST 5878)	FM 4470/4474	JMC-193-02-01A	04/28/2014
PRI (TST 5878)	ASTM D6162	JMC-234-02-04	07/21/2015
PRI (TST 5878)	ASTM D6164	JMC-238-02-03	12/01/2015
PRI (TST 5878)	FM 4470/4474	JMC-246-02-01	03/29/2016
UL LLC (QUA9625)	Quality Control	Service Confirmation	04/24/2019
UL LLC (QUA9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED MEMBRANES						
Type	Product		Material Standard			Plant(s)
			Reference	Type	Grade	
Roof Cover or Cap Ply	JM PVC	50, 60, 80-mil	ASTM D4434	III	N/A	RI
	JM PVC Fleece Backed	50, 60, 80-mil	ASTM D4434	III	N/A	RI
	JM PVC SD Plus	50, 60, 80-mil	ASTM D4434	III	N/A	RI
Base Sheet or Vapor Barrier Sheets	GlasBase Plus		ASTM D4601	II	N/A	CA
	PermaPly 28		ASTM D4601	II	N/A	OK
	Ventsulation Felt		ASTM D4897	II	N/A	OK
Ply Sheet or Vapor Barrier Sheets	GlasPly IV		ASTM D2178	IV	N/A	OK
	GlasPly Premier		ASTM D2178	VI	N/A	OK
Base Ply or Vapor Barrier Membranes	DynaPly T1		ASTM D6162	I	S	GA
	DynaBase XT		ASTM D6163	I	S	GA
	DynaBase		ASTM D6163	I	S	GA
	DynaBase HW		ASTM D6163	I	S	GA
	DynaWeld Base		ASTM D6163	I	S	GA
	DynaBase PR		ASTM D6164	I	S	GA
	DynaLastic 180 S		ASTM D6164	I	S	GA
	DynaWeld 180 S		ASTM D6164	I	S	GA
DynaLastic 250 S		ASTM D6164	II	S	GA	

5. LIMITATIONS:

- 5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This Evaluation Report does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020)** for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

6. INSTALLATION:

JM PVC Single Ply Roof Systems shall be installed in accordance with **Johns Manville** published installation instructions, subject to the Limitations / Conditions of Use noted herein.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (414) 248-6409; karen.buchmann@us.ul.com

- THE 33-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off), Recover	A-1	Bonded Insulation, Bonded Roof Cover	4
1B	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation Bonded Roof Cover	4-6
1C	Wood	New, Reroof (Tear-Off), Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	6
1D	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	6
2A	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7-8
2B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	8-10
2C	Steel	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	10-15
2D	Steel	New, Reroof (Tear-Off), Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	16
2E	Steel	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	16-18
2F	Steel	New, Reroof (Tear-Off), Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	18
3A	Structural Concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	19-25
3B	Structural Concrete	New, Reroof (Tear-Off), Recover	C-2	Mech. Attached Insulation, Plate-Bonded Roof Cover	26
3C	Structural Concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	26-27
3D	Structural Concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	27
4A	LWIC	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	28
4B	LWIC	New, Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	28-29
4C	LWIC	New, Reroof (Tear-Off)	F	Vapor Barrier to Deck, LWC to Vapor Barrier, Bonded Roof Cover	29
5A	CWF	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	30
5B	CWF	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	30
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	31
6B	Gypsum	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	31
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	32
7B	Various	Recover Over Existing Metal Roof	C-2	Mech. Attached Insulation, Plate-Bonded Roof Cover	32-33
7C	Various	Recover Over Existing Metal Roof	D-1	Insulated, Mechanically Attached Roof Cover	33
7D	Various	Recover	F	Non-Insulated, Bonded Roof Cover	33

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Min. ¾-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Minimum ¾-inch steel penetration, engage the top flute of the steel deck.
 - Structural Concrete: All Purpose Fasteners with UltraFast Metal Plates or Structural Concrete Fasteners with UltraFast Metal Plates (flat bottom only). Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 6 Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
- hot asphalt: Full mopping, 25-30 lbs/square.
 - JM MBR Bonding Adhesive [MBR-BA] Continuous 0.75-inch ribbons, 12-inch o.c.
 - JM One-Step Foamable Adhesive [JM-OSFA]: Continuous 0.75-inch ribbons, 12-inch o.c.
 - JM Roofing System Urethane Adhesive (JM-RSUA): Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.
 - JM Two Part Urethane Insulation Adhesive [UIA-TWO-PART]: Continuous 0.75-inch ribbons, 12-inch o.c. *JM Green Two Part Urethane Insulation Adhesive, JM Two Part Urethane Insulation Adhesive Canister, JM Two-Part UIA or JM Two-Part UIA Canister may be used where "UIA-TWO-PART" is referenced*
 - ICP Adhesives & Sealants "Polyset CR-20": Continuous 2.5 TO 3.5-inch ribbons, 12-inch o.c.
 - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
 - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*
- 7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.
- JM-OSFA: MDP = -157.5 psf (Min. 0.5-inch thick)
 - JM-RSUA: MDP = -157.5 psf (Min. 0.5-inch thick)
 - UIA-TWO-PART: MDP = -315.0 psf (Min. 0.5-inch thick ENRGY 3 or JM ISO 3)
 - Polyset CR-20: MDP = -117.5 psf (Min. 1.0-inch thick)
- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020) for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1, C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5 herein). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15 For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS					
REFERENCE	LAYER	MATERIAL	APPLICATION		
			ADHESIVE	METHOD	RATE
JM PVC MA-LVOC	Roof Cover:	JM PVC or JM PVC SD Plus	JM PVC Membrane Adhesive (Low VOC)	Contact (both sides)	1.67 gal/square (½ applied to substrate and ½ applied to membrane)
JM PVC MA-LSB	Roof Cover:	JM PVC SD Plus	JM PVC Membrane Adhesive (Low Solvent Based)	Contact (both sides)	1.1 to 2.0 gal/square (½ applied to substrate and ½ applied to membrane)
JM PVC WBMA	Roof Cover:	JM PVC or JM PVC SD Plus	JM PVC Water Based Membrane Adhesive	Wet lay (substrate)	0.45 gal/square
TACC LA-432	Roof Cover:	JM PVC or JM PVC SD Plus	TACC LA-432	Contact (both sides)	2.0 gal/square (½ applied to substrate and ½ applied to membrane)
TACC FA-636	Roof Cover:	JM PVC	TACC FA-636	Contact (both sides)	1.34 gal/square (½ applied to substrate and ½ applied to membrane)
JM PVC WBMA	Roof Cover:	JM PVC Fleece Backed	JM PVC Water Based Membrane Adhesive	Wet lay (substrate)	0.63 gal/square
JM-RSUA	Roof Cover:	JM PVC Fleece Backed	JM Roofing System Urethane Adhesive	Wet lay (substrate)	0.5 to 0.75-inch wide ribbons spaced as noted in tables herein.
JM-SP-UIA-TWO-PART	Roof Cover:	JM PVC Fleece Backed	JM Single Ply Two Part Urethane Insulation Adhesive	Wet lay (substrate)	0.5 to 0.75-inch wide ribbons spaced as noted in tables herein.
hot asphalt	Roof Cover or Cap Ply:	JM PVC Fleece Backed	hot asphalt	Wet lay (substrate)	Hot asphalt at 20 lbs/square.
BP-AA	Base Ply:	One or more GlasBase Plus, PermaPly 28	hot asphalt	Wet lay (substrate)	Hot asphalt at 20-40 lbs/square.
	Ply:	One or more GlasPly IV, GlasPly Premier, GlasBase Plus, PermaPly 28			
SBS-AA	Base Ply or Ply:	One or more DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	hot asphalt	Wet lay (substrate)	Hot asphalt at 20 lbs/square.
SBS-TA	Base Ply or Ply:	One or more DynaBase HW, DynaWeld Base, DynaWeld 180 S	torch-applied	Full-bond	torch-applied

- 15A For single-ply membranes in System Type D-1 or E-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
- 15B For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.

16 Vapor barrier options for use over structural concrete deck followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. those in Table 3A applies.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	APPLICATION		
C-VB-1.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt		JM-OSFA, 12-inch o.c.	-180.0
C-VB-2.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		JM-OSFA, 12-inch o.c.	-180.0
C-VB-3.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S		JM-OSFA, 12-inch o.c.	-180.0
C-VB-4.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt		JM-RSUA, 12-inch o.c.	-180.0
C-VB-5.	JM SA Primer Low VOC	JM Vapor Barrier SA		JM-RSUA, 12-inch o.c.	-277.5
C-VB-6.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		JM-RSUA, 12-inch o.c.	-277.5
C-VB-7.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180		JM-RSUA, 12-inch o.c.	-292.5
C-VB-8.	JM SA Primer Low VOC	JM Vapor Barrier SA		UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-9.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-10.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S		UIA-TWO-PART, 12-inch o.c.	-277.5

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

**TABLE 1A: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
W-1.	Min. 15/32" BCX plywood or OSB	One or more layers min. 1.5-inch ENRGY 3	Polysset CR-20	Min. 0.25-inch Invinsa Roof Board	Polysset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC MA-LVOC	-52.5

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
JM PVC APPLICATIONS:							
W-2.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	UltraFast Pre-Assembled Phillips or UltraFast Pre-Assembled Hex or UltraFast Square Recessed Metal Plate with UltraFast #12 or #14	1 per 2.0 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*
W-3.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 2.7 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
W-4.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 3.2 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*
W-5.	Min. 19/32" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.7 ft2	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-37.5*
W-6.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	UltraFast Pre-Assembled Phillips or UltraFast Pre-Assembled Hex or UltraFast Square Recessed Metal Plate with UltraFast #12 or #14	1 per 1.8 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
W-7.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 2.1 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
W-8.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board followed by min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 5/8-inch DensDeck or DensDeck Prime	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 4.0 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
W-9.	Min. 15/32" TECO rated plywood or OSB	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.7 ft2	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
W-10.	Min. 7/16" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.0 ft2	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
W-11.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UltraFast Pre-Assembled Phillips or UltraFast Pre-Assembled Hex or UltraFast Square Recessed Metal Plate with UltraFast #12 or #14	1 per 4.0 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*

JM PVC FLEECE BACKED APPLICATIONS:

TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
W-12.	Min. 19/32" APA rated OSB or min. 15/32" APA rated plywood	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.7 ft ²	JM PVC Fleece Backed / JM PVC WBMA	-37.5*
W-13.	Min. 15/32" TECO rated plywood or OSB	(Optional) One or more layers, any type, thickness or combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	All Purpose Fasteners with UltraFast Square Metal Plates	1 per 2.7 ft ²	JM PVC Fleece Backed / JM PVC WBMA	-45.0*

TABLE 1C: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER						
System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attach		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density		
W-14.	Min. 19/32" APA rated OSB	One or more layers, any combination	All Purpose Fasteners with JM PVC RhinoPlates	1 per 5.3 ft ² (6 parts per 4x8 ft board)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-22.5*
W-15.	Min. 15/32" APA rated plywood at 24" span	One or more layers, any combination	All Purpose Fasteners with JM PVC RhinoPlates	1 per 2.7 ft ² (16" x 24" grid)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
W-16.	Min. 7/16" APA rated OSB at 24" span	One or more layers, any combination	All Purpose Fasteners with JM PVC RhinoPlates, installed to engage wood joists	18" o.c. in rows spaced 48" o.c. (Fasteners engage wood joists)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
W-17.	Min. 15/32" TECO rated OSB or Min. 19/32" APA rated plywood	One or more layers, any combination	All Purpose Fasteners with JM PVC RhinoPlates	1 per 4.0 ft ² (24" x 24" grid)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*

TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER								
System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
W-18.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-30.0
W-19.	Min. 23/32" (nominal 3/4") thick plywood or wood plank	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-45.0

**TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
JM PVC APPLICATIONS:									
S-1.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch RetroPlus Board	JM-RSUA	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-2.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-3.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-4.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2-inch ENRGY 3, ValuTherm	Note 2 (round plates)	1 per 2.0 ft ²	Min. 2-inch ENRGY 3, ValueTherm	UIA-TWO-PART	None	JM PVC / JM PVC MA-LVOC	-52.5
S-5.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2	1 per 1.3 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-52.5
JM PVC FLEECE BACKED APPLICATIONS:									
S-6.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch RetroPlus Board	JM-RSUA	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-7.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2	1 per 1.0 ft ²	Min. 0.5-inch Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board	JM-RSUA, 6-inch o.c.	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5
S-8.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-9.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*

TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
S-10.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, ValuTherm	Note 2	1 per 1.0 ft ²	Min. 0.5-inch Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART, 6-inch o.c.	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5
HYBRID JM PVC FLEECE BACKED APPLICATIONS:									
S-11.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board (homogeneous) (flat or tapered) or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA, SBS-AA	JM PVC Fleece Backed / Hot asphalt	-52.5
S-12.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ENRGY 3, Fesco Foam or DuraFoam	Note 2	1 per 1.8 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA, SBS-AA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-13.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2-inch ENRGY 3	Note 2	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-14.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2-inch ENRGY 3	Note 2	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	RSUA, 6-inch o.c.	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-15.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2-inch ENRGY 3	Note 2	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0

TABLE 2B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof		Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
JM PVC APPLICATIONS:													
S-16.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*

TABLE 2B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof		Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
S-17.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-18.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-19.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 2-inch ENRGY 3	UIA-TWO-PART	None	JM PVC / JM PVC MA-LVOC	-45.0*
JM PVC FLEECE BACKED APPLICATIONS:													
S-20.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-21.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-22.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-23.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-45.0*
S-24.	Min. 22 ga., Grade 80 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1.0 ft ²	JM SA Primer followed by JM Vapor Barrier SA	Self-adhered	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	RSUA, 6-inch o.c.	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	RSUA, 6-inch o.c.	None	JM PVC Fleece Backed / JM-RSUA, 6-inch o.c.	-82.5

TABLE 2B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)													
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER													
System No.	Deck (Note 1)	Thermal Barrier			Temp Roof		Base Insulation		Top Insulation		Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
HYBRID JM PVC FLEECE BACKED APPLICATIONS:													
S-25.	Min. 22 ga., Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	JM SA Primer Low VOC followed by JM Vapor Barrier SA	Self-adhered	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-45.0*

TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)	
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply		
JM PVC APPLICATIONS:									
S-26.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	Note 2	1 per 2.0 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*	
S-27.	Min. 22 ga., Type B, Grade 33 steel	in. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 2.7 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*	
S-28.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 3.2 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-30.0*	
S-29.	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Fesco Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-37.5*	
S-30.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	Note 2	1 per 1.8 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*	
S-31.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DensDeck	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 2.1 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*	

**TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-32.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 5/8-inch DensDeck or DensDeck Prime	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 4.0 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-33.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 4.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-45.0*
S-34.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Note 2	1 per 3.2 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-35.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-36.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	None	JM PVC / JM PVC MA-LVOC	-45.0*
S-37.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch Invinsa Roof Board or Invinsa FR	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-45.0*
S-38.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsaPlus	Note 2	1 per 4.0 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-39.	Min. 22 ga., Type B, Grade 33 steel	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 1.75-inch Invinsa Foam	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-40.	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Invinsa Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-41.	Min. 22 ga., Type B, Grade 33 steel	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Min. 2-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Note 2	1 per 4.0 ft ²	None	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-42.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.3 ft ²	None	JM PVC / JM PVC MA-LVOC	-52.5

**TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-43.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsaPlus	Note 2	1 per 2.7 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-52.5
S-44.	Min. 22 ga., Type B, Grade 80 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsaPlus	Note 2	1 per 2.0 ft ²	None	JM PVC / JM PVC WBMA, JM PVC MA-LVOC	-60.0
S-45.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, ENRGY 3 C1, ENRGY 3 C1 CGF	Note 2 (round or square plates)	1 per 1.6 ft ²	None	JM PVC / JM PVC MA-LVOC	-60.0
S-46.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-67.5
S-47.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (round or square plates)	1 per 1.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-82.5
S-48.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-82.5
S-49.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-105.0
S-50.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-112.5
S-51.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (round or square plates)	1 per 1.0 ft ²	None	JM PVC / JM PVC MA-LVOC	-120.0
JM PVC SD PLUS APPLICATIONS:								
S-52.	Min. 22 ga., Type B, Grade 33 steel	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 1.75-inch Invinsa Foam	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC SD Plus / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*

**TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-53.	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Invinsa Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	None	JM PVC SD Plus / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-54.	Min. 22 ga., Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 FR, Invinsa Foam	Note 2 (square plates)	1 per 2.7 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-52.5
S-55.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, ENRGY 3 C1, ENRGY 3 C1 CGF	Note 2 (round or square plates)	1 per 1.6 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-60.0
S-56.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-67.5
S-57.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch Invinsa Foam	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-75.0
S-58.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.6 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-75.0
S-59.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (round or square plates)	1 per 1.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-82.5
S-60.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-82.5
S-61.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-105.0
S-62.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (square plates)	1 per 1.3 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-105.0

**TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-63.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-112.5
S-64.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ENRGY 3 CGF, ENRGY 3 FR	Note 2 (round or square plates)	1 per 1.0 ft ²	None	JM PVC SD Plus / JM PVC MA-LVOC	-120.0
JM PVC FLEECE BACKED APPLICATIONS:								
S-65.	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Fesco Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-37.5*
S-66.	Min. 22 ga., Type B, Grade 33 steel	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, PSI-25	OMG 3 in. Galvalume Steel Plates with OMG #12 or #14 HD	1 per 2.0 ft ²	None	JM PVC Fleece Backed / hot asphalt	-45.0*
S-67.	Min. 22 ga., Type B, Grade 33 steel	(Optional) ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 2-inch Invinsa Foam	Note 2; All Purpose Fastener only	1 per 5.3 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA, JM PVC MA-LVOC	-45.0*
S-68.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 4.0 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-69.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Note 2	1 per 3.2 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-70.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 4.0 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-71.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-72.	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3 or 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, loose laid	Min. 0.25-inch InvinsaPlus	Note 2	1 per 4.0 ft ²	None	JM PVC Fleece Backed / JM PVC WBMA	-45.0*
S-73.	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.0 ft ²	None	JM PVC Fleece Backed / hot asphalt	-60.0

**TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-74.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, loose laid, followed by JM Vapor Barrier SA, self-adhered, followed by Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1.0 ft ²	None	JM PVC Fleece Backed / JM-RSUA, 4-inch o.c.	-82.5
S-75.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.6 ft ²	None	JM PVC Fleece Backed / hot asphalt	-75.0
S-76.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC Fleece Backed / hot asphalt	-82.5
S-77.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Note 2 (square plates)	1 per 1.0 ft ²	None	JM PVC Fleece Backed / hot asphalt	-112.5
S-78.	Min. 22 ga., Type B, Grade 80 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, loose laid, followed by JM Vapor Barrier SA, self-adhered, followed by Min. 1.5-inch ENRGY 3, ENRGY 3.E, ValuTherm, JM ISO 3, R-Panel, SeparatoR, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 1.0 ft ²	None	JM PVC Fleece Backed / JM-RSUA, 4-inch o.c.	-142.5
HYBRID JM PVC FLEECE BACKED APPLICATIONS:								
S-79.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board (homogeneous) or min. 1.5-inch Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-52.5
S-80.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.5 ft ²	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-60.0
S-81.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch Retro-Fit Board or min. 0.75-inch Fesco Board (homogeneous)	Note 2	1 per 1.3 ft ²	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-60.0
S-82.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft ²	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / hot asphalt	-60.0

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

System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attach		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density		
S-83.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 5.3 ft ² (6 parts per 4 x 8 ft board)	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
S-84.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 4.0 ft ² (24 x 24-inch grid)	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-85.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 2.1 ft ² (15 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 30-, 48-, 66- and 84-inches from the board's short edge.	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-90.0

**TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
S-86.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 1.5-inch heat weld.	-30.0
S-87.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-30.0
S-88.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-30.0
S-89.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF		1 per 6.4 ft ²	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-37.5
S-90.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF		1 per 6.4 ft ²	Min. 50 mil JM PVC	Extra High Load Fasteners with Extra High Load Plates	12-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-37.5

**TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
S-91.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	Extra High Load Fasteners with Extra High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-37.5
S-92.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 0.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
S-93.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-45.0
S-94.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
S-95.	Min. 22 ga., Type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 5.5-inch wide laps spaced 114-inch o.c. Laps sealed with 2-inch heat weld.	-45.0
S-96.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5.5-inch wide laps spaced 144-inch o.c. Laps sealed with 2-inch heat weld.	-45.0
S-97.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 60 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-52.5
S-98.	18-22 ga., type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 1.5-inch heat weld.	-60.0
S-99.	18-22 ga., type B, Grade 33 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	Extra High Load Fasteners with OMG 2½ Super XHD barbed stress plates	6-inch o.c. within 5.5-inch wide laps spaced 114-inch o.c. Laps sealed with 2-inch heat weld.	-60.0

**TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
S-100.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 4.5-inch wide laps spaced 114-inch o.c. Laps sealed with 2-inch heat weld.	-60.0
S-101.	Min. 22 ga., Type B, Grade 80 steel	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 60 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-75.0

**TABLE 2F: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners (Note 11)	Attach	Base Ply(s)	Cap Ply	
S-102.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	18-inch o.c. within the 5-inch wide, heat welded lap	(Optional) SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-45.0*
S-103.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	PermaPly 28, GlasBase Plus, DynaBase or Ventsulation	Note 2	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-104.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	12-inch o.c. within the 5-inch wide, heat welded lap	(Optional) SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-105.	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 S	High Load Fasteners and APB Plates or High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-AA, SBS-TA	JM PVC Fleece Backed / Hot asphalt	-60.0
S-106.	Min. 22 ga., type B, Grade 80 steel	One or more layers, min. 1-inch, any combination	Prelim. Attached	DynaFast 180 S	High Load Fasteners and High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	None	JM PVC Fleece Backed / JM-RSUA, 36-inch o.c.	-142.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
JM PVC APPLICATIONS:									
C-1.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	Min. 0.25-inch DensDeck Prime	JM-OSFA	None	JM PVC / JM PVC WBMA	-45.0
C-2.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	Min. 0.25-inch Invinsa Roof Board	JM-OSFA or MBR-BA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-75.0
C-3.	Min. 2,500 psi structural concrete	None	(Optional) One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-OSFA	Min. 1.5-inch Invinsa Foam	JM-OSFA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-75.0
C-4.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-OSFA	None	JM PVC / JM PVC WBMA	-127.5
C-5.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	0.5-inch ProtectoR HD	JM-OSFA	None	JM PVC / JM PVC WBMA	-180.0
C-6.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	0.5-inch SeparatoR CGF	JM-OSFA	None	JM PVC / JM PVC WBMA	-225.0
C-7.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	Min. 0.25-inch DensDeck Prime	JM-RSUA	None	JM PVC / JM PVC WBMA	-45.0
C-8.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 0.25-inch Invinsa Roof Board	JM-RSUA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-67.5
C-9.	Min. 2,500 psi structural concrete	None	(Optional) One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 1.5-inch Invinsa Foam	JM-RSUA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-67.5
C-10.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-RSUA	None	JM PVC / JM PVC WBMA	-127.5

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-11.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	0.5-inch ProtectoR HD	JM-RSUA	None	JM PVC / JM PVC WBMA	-180.0
C-12.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	0.5-inch SeparatoR CGF	JM-RSUA	None	JM PVC / JM PVC WBMA	-225.0
C-13.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	None	JM PVC / JM PVC MA-LVOC	-292.5
C-14.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC WBMA	-30.0
C-15.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	Min. 0.25-inch DensDeck Prime	UIA-TWO-PART	None	JM PVC / JM PVC WBMA	-45.0
C-16.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART or MBR-BA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
C-17.	Min. 2,500 psi structural concrete	None	(Optional) One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
C-18.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC MA-LVOC	-120.0
C-19.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s), min. 1-inch base insulation	UIA-TWO-PART	None	JM PVC / JM PVC WBMA	-127.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-20.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	0.5-inch ProtectoR HD	UIA-TWO-PART	None	JM PVC / JM PVC WBMA	-180.0
C-21.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	0.5-inch SeparatoR CGF	UIA-TWO-PART	None	JM PVC / JM PVC WBMA	-225.0
C-22.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ValuTherm	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC / JM PVC MA-LVOC	-390.0
C-23.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	Polyset CR-20	Min. 0.25-inch Invinsa Roof Board	Polyset CR-20 or MBR-BA	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5
JM PVC SD Plus APPLICATIONS:									
C-24.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	Min. 0.25-inch DensDeck Prime	JM-OSFA	None	JM PVC SD Plus / JM PVC WBMA	-45.0
C-25.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-OSFA	None	JM PVC SD Plus / JM PVC WBMA	-127.5
C-26.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	0.5-inch ProtectoR HD	JM-OSFA	None	JM PVC SD Plus / JM PVC WBMA	-180.0
C-27.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	0.5-inch SeparatoR CGF	JM-OSFA	None	JM PVC SD Plus / JM PVC WBMA	-225.0
C-28.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	Min. 0.25-inch DensDeck Prime	JM-RSUA	None	JM PVC SD Plus / JM PVC WBMA	-45.0
C-29.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-RSUA	None	JM PVC SD Plus / JM PVC WBMA	-127.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-30.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	0.5-inch ProtectoR HD	JM-RSUA	None	JM PVC SD Plus / JM PVC WBMA	-180.0
C-31.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	0.5-inch SeparatoR CGF	JM-RSUA	None	JM PVC SD Plus / JM PVC WBMA	-225.0
C-32.	Min. 2,500 psi structural concrete	None	Min. 1-inch ENRGY 3, JM ISO 3, 25 PSI, ValuTherm	JM-RSUA	(Optional) Additional layers of base insulation	JM-RSUA	None	JM PVC SD Plus / JM PVC MA-LSB	-266.3
C-33.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	Min. 0.25-inch DensDeck Prime	UIA-TWO-PART	None	JM PVC SD Plus / JM PVC WBMA	-45.0
C-34.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s), min. 1-inch base insulation	UIA-TWO-PART	None	JM PVC SD Plus / JM PVC WBMA	-127.5
C-35.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	0.5-inch ProtectoR HD	UIA-TWO-PART	None	JM PVC SD Plus / JM PVC WBMA	-180.0
C-36.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	0.5-inch SeparatoR CGF	UIA-TWO-PART	None	JM PVC SD Plus / JM PVC WBMA	-225.0
JM PVC FLEECE BACKED APPLICATIONS:									
C-37.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	JM-OSFA	(Optional) Additional layers of base insulation	JM-OSFA	None	JM PVC Fleece Backed / JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-38.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	Min. 0.25-inch DensDeck Prime or 0.5-inch ProtectoR HD	JM-OSFA	None	JM PVC Fleece Backed / JM PVC WBMA	-142.5
C-39.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	0.5-inch SeparatoR CGF	JM-OSFA	None	JM PVC Fleece Backed / JM PVC WBMA	-150.0

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-40.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-OSFA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-OSFA	None	JM PVC Fleece Backed / JM PVC WBMA	-187.5
C-41.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm	JM-RSUA	(Optional) Additional layers of base insulation	JM-RSUA	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5
C-42.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	JM-RSUA	Min. 0.5-inch Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5
C-43.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	JM-RSUA	(Optional) Additional layers of base insulation	JM-RSUA	None	JM PVC Fleece Backed / JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-44.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	Min. 0.25-inch DensDeck Prime or 0.5-inch Protector HD	JM-RSUA	None	JM PVC Fleece Backed / JM PVC WBMA	-142.5
C-45.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	0.5-inch Separator CGF	JM-RSUA	None	JM PVC Fleece Backed / JM PVC WBMA	-150.0
C-46.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	JM-RSUA	(Optional) Additional layer(s), min. 1-inch base insulation	JM-RSUA	None	JM PVC Fleece Backed / JM PVC WBMA	-187.5
C-47.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5
C-48.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.5-inch Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM-RSUA, 12-inch o.c.	-67.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-49.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3.E, ENRGY 3.E 25 PSI, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ValuTherm AGF, ENRGY 3 25 PSI AGF, ValuTherm 25 PSI AGF, ENRGY 3 CGF, ValuTherm CGF, ENRGY 3 25 PSI CGF, ValuTherm 25 PSI CGF, ENRGY 3 FR, ENRGY 3 25 PSI FR	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	None	JM PVC Fleece Backed / JM-RSUA or JM-SP-UIA-TWO-PART, 4-inch o.c.	-112.5
C-50.	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-120.0
C-51.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	Min. 0.25-inch DensDeck Prime or 0.5-inch Protector HD	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-142.5
C-52.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	0.5-inch SeparatoR CGF	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-150.0
C-53.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ValuTherm, JM ISO 3, R-Panel, ENRGY 3 25 PSI, ENRGY 3.E 25 PSI, ValuTherm 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s), min. 1-inch base insulation	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-187.5
C-54.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ValuTherm	UIA-TWO-PART	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	UIA-TWO-PART	None	JM PVC Fleece Backed / JM PVC WBMA	-255.0
HYBRID JM PVC FLEECE BACKED APPLICATIONS:									
C-55.	Min. 2,500 psi structural concrete	ASTM D41	Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	HA	(Optional) Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	HA	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-167.5
C-56.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	HA	Min. 0.5-inch Retro-Fit Board or min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	HA	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
C-57.	Min. 2,500 psi structural concrete	ASTM D41	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	HA	Min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5
C-58.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / hot asphalt	-217.5
C-59.	Min. 2,500 psi structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA	Min. 0.75-inch FescoBoard (homogeneous)	UIA or MBR-BA, 12-inch o.c.	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-112.5
C-60.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	JM-RSUA	Min. 0.5-inch Retro-Fit Board	JM-RSUA	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-105.0
C-61.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5
C-62.	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	None	N/A	DynaBase HW, torch-applied	JM PVC Fleece Backed / JM-RSUA, 4-inch o.c.	-112.5
C-63.	Min. 2,500 psi structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.75-inch FescoBoard (homogeneous)	UIA-TWO-PART	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5
C-64.	Min. 2,500 psi structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.5-inch Retro-Fit Board or DuraBoard	UIA-TWO-PART	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5
C-65.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5
C-66.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF	Polysat CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polysat CR-20	BP-AA, SBS-AA, SBS-TA	JM PVC Fleece Backed / hot asphalt	-217.5

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attach		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density		
C-67.	Min. 2,500 psi structural concrete	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 5.3 ft ² (6 parts per 4 x 8 ft board)	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
C-68.	Min. 2,500 psi structural concrete	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 4.0 ft ² (8 parts per 4 x 8 ft board)	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
C-69.	Min. 2,500 psi structural concrete	One or more layers, any combination	High Load Fasteners with JM PVC RhinoPlates	1 per 2.1 ft ² (15 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 30-, 48-, 66- and 84-inches from the board's short edge.	JM PVC or JM PVC SD Plus induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-90.0

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
C-70.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-30.0
C-71.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-30.0
C-72.	Min. 2,500 psi structural concrete	One or more layers min. 1-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners or JM Structural Concrete Deck Fastener with Extra High Load Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-37.5
C-73.	Min. 2,500 psi structural concrete	One or more layers min. 0.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board, DensDeck or SECUROCK Gypsum-Fiber Roof Board	Prelim. attached	Min. 50 mil JM PVC	High Load Fasteners or JM Structural Concrete Deck Fastener with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
C-74.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	18-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-45.0

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 13)			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
C-75.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5.5-inch wide laps spaced 144-inch o.c. Laps sealed with 2-inch heat weld.	-45.0
C-76.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 60 mil JM PVC	High Load Fasteners with High Load Plates	12-inch o.c. within 5-inch wide laps spaced 73-inch o.c. Laps sealed with 2-inch heat weld.	-52.5
C-77.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 50 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 4.5-inch wide laps spaced 114-inch o.c. Laps sealed with 2-inch heat weld.	-60.0
C-78.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO 3, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF	(Optional) Min. 0.25-inch Invinsa Roof Board	Prelim attach	Min. 60 mil JM PVC	High Load Fasteners with High Load Plates	6-inch o.c. within 6-inch wide laps spaced 72-inch o.c. Laps sealed with 2-inch heat weld.	-75.0

**TABLE 3D: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)		MDP (psf)
			Base Ply(s)	Cap Ply	
C-79.	Min. 2,500 psi structural concrete	ASTM D41	BP-AA, SBS-AA	JM PVC Fleece Backed / hot asphalt	-217.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)	MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CELCORE (FL2037):								
LWC-1.	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polyset CR-20	Min. 0.25-inch Invinsa Roof Board	Polyset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5
ELASTIZELL (FL4994):								
LWC-2.	Min. 2,500 psi structural concrete	Min. 160 psi, min. 2-inch thick, Range II Elastizell Lightweight Insulating Concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
LWC-3.	Min. 2,500 psi structural concrete	Min. 160 psi, min. 2-inch thick, Range II Elastizell Lightweight Insulating Concrete	(Optional) One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
LWC-4.	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick, Range II Elastizell Lightweight Insulating Concrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polyset CR-20	Min. 0.25-inch Invinsa Roof Board	Polyset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5
MEARLCRETE (FL13492):								
LWC-5.	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Mearlcrete	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polyset CR-20	Min. 0.25-inch Invinsa Roof Board	Polyset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA,	-112.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
CELCORE (FL2037):					
LWC-6.	Min. 22 ga., Type BV, Grade 33 vented steel or min. 2.500 psi concrete	Min. 380 psi, min. 2-inch thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board. Celcore treated with Celcore Curing Compound	JM PVC Fleece Backed	JM-RSUA, 12-inch o.c.	-67.5
LWC-7.	Min. 2,500 psi structural concrete	Min. 380 psi, min. 2" thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board and surfacing of Celcore Curing Compound.	JM PVC Fleece Backed	JM-RSUA, 4-inch o.c. (full coverage)	-502.5
ELASTIZELL (FL4994):					
LWC-8.	Min. 22 ga., Type BV, Grade 33 vented steel or min. 2.500 psi concrete	Min. 210 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete with optional 1" thick, 1.0 pcf EPS holey board	JM PVC Fleece Backed	JM-RSUA, 12-inch o.c.	-67.5
LWC-9.	Min. 2,500 psi structural concrete	Min. 210 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete with optional 1" thick, 1.0 pcf EPS holey board	JM PVC Fleece Backed	JM-RSUA, 4-inch o.c. (full coverage)	-390.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
CONCRECEL (FL5584 OR FL10500):					
LWC-10.	Min. 22 ga., Type BV, Grade 33 vented steel or min. 2,500 psi concrete	Min. 370 psi, min. 2-inch thick Concrecel Concrete with optional 1" thick, 1.0 pcf EPS holey board. Concrecel treated with Concrecel Curing Compound.	JM PVC Fleece Backed	JM-RSUA, 12-inch o.c.	-67.5
LWC-11.	Min. 2,500 psi structural concrete	Min. 370 psi, min. 2-inch thick Concrecel Concrete with optional 1" thick, 1.0 pcf EPS holey board. Concrecel treated with Concrecel Curing Compound.	JM PVC Fleece Backed	JM-RSUA, 4-inch o.c. (full coverage)	-480.0

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

System No.	Deck (Note 1)	Vapor Barrier	Lightweight Concrete (Note 14)	Roof Cover (Note 15)		MDP (psf)
				Type	Attach	
CELCORE (FL2037):						
LWC-12.	Min. 2,500 psi structural concrete primed with ASTM D41 primer	DynaBase HW, torch-applied	Min. 380 psi, min. 2-inch thick Celcore Cellular Concrete with optional 1" thick, 1.0 pcf EPS holey board. Celcore treated with Celcore Curing Compound	JM PVC Fleece Backed	JM-RSUA, 4-inch o.c. (full coverage)	-262.5
ELASTIZELL (FL4994):						
LWC-13.	Min. 2,500 psi structural concrete primed with ASTM D41 primer	DynaBase HW, torch-applied	Min. 210 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete with optional 1" thick, 1.0 pcf EPS holey board	JM PVC Fleece Backed	JM-RSUA, 4-inch o.c. (full coverage)	-85.0

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CWF-1.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-45.0
CWF-2.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-45.0
CWF-3.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polysset CR-20	Min. 0.25-inch Invinsa Roof Board	Polysset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-52.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CWF-4.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	UltraLok Fasteners (min. 1" embedment)	1 per 1.8 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-37.5*
CWF-5.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	UltraLok Fasteners (min. 1" embedment)	1 per 1.3 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
G-1.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF,	JM-OSFA	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF,	JM-OSFA	JM PVC Fleece Backed / hot asphalt	-45.0
G-2.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
G-3.	Existing poured gypsum or gypsum plank	(Optional) One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
G-4.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polysset CR-20	Min. 0.25-inch Invinsa Roof Board	Polysset CR-20	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5

**TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-5.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	UltraLok Fasteners (min. 1" embedment)	1 per 1.8 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-37.5*
G-6.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm CGF, ValuTherm 25 PSI AGF, ValuTherm 25 PSI CGF loose laid	UltraLok Fasteners (min. 1" embedment)	1 per 1.3 ft2	JM PVC / TACC LA 432, JM PVC WBMA, JM PVC MA-LVOC	-45.0*

TABLE 7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply(s)	Cap Ply	
JM PVC APPLICATIONS:								
R-1.	Existing asphaltic BUR or mineral surface cap sheet	Min. 0.25-inch Invinsa Roof Board	MBR-BA, full coverage at 1.5 gal/square	None	N/A	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5
R-2.	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
R-3.	Existing asphaltic BUR or mineral surface cap sheet	(Optional) One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-105.0
R-4.	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, JM ISO-3	Polyset CR-20	Min. 0.25-inch Invinsa Roof Board	Polyset CR-20	None	JM PVC / TACC LA 432, TACC FA 636, JM PVC WBMA, JM PVC MA-LVOC	-112.5
HYBRID JM PVC FLEECE BACKED APPLICATIONS:								
R-5.	Existing smooth-surfaced, SBS modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	None	N/A	DynaBase HW, torch-applied	JM PVC Fleece Backed / JM-RSUA, 4-inch o.c.	-112.5

TABLE 7B: RECOVER OVER EXISTING METAL PANEL ROOF
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer	Attach		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density		
R-6.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securement: JM Purlin Fasteners with JM PVC RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM PVC Rhino Plates spaced 6-inch o.c. at every-other structural steel support (max. 120-inch o.c.)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-7.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securement: JM Purlin Fasteners with JM PVC RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM PVC Rhino Plates spaced 18-inch o.c. at every structural steel support (max. 60-inch o.c.)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-8.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securement: JM Purlin Fasteners with JM PVC RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM PVC Rhino Plates spaced 12-inch o.c. at every structural steel support (max. 60-inch o.c.)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5

TABLE 7B: RECOVER OVER EXISTING METAL PANEL ROOF SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER						
System No.	Deck (Note 1)	Insulation Layer	Attach		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density		
R-9.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof followed by additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Preliminary Securement: UltraFast Plate-Bonded Securement: JM Purlin Fasteners with JM PVC RhinoPlates	Insulation preliminarily secured with fasteners/plates in Note 2. JM Purlin Fasteners with JM PVC Rhino Plates spaced 6-inch o.c. at every structural steel support (max. 60-inch o.c.)	Min. 60-mil JM PVC induction welded to JM PVC RhinoPlates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-120.0

TABLE 7C: RECOVER OVER EXISTING METAL PANEL ROOF SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER								
System No.	Deck (Note 1)	Insulation			Roof Cover (Note 15A)			MDP (psf)
		Base Layer	Top Layer	Attach (Note 5)	Membrane	Fasteners (Note 11)	Attach	
R-10.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attach	JM PVC	JM Purlin Fasteners with High Load Plates	Fasteners spaced 18-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
R-11.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attach	JM PVC	JM Purlin Fasteners with High Load Plates	Fasteners spaced 12-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
R-12.	Existing wood, steel or concrete deck atop min. 16 ga. (0.0598") purlins or steel supports spaced max. 5 ft o.c.	ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, 25 PSI, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, JM ISO 3 or ValuTherm between ribs or over panels of existing non-structural metal roof	Additional base layer or Min. 0.25-inch DensDeck, Invinsa Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	Prelim. Attach	JM PVC	JM Purlin Fasteners with High Load Plates	Fasteners spaced 6-inch o.c. within 5-inch wide laps engage structural supports spaced 60-inch o.c. Laps sealed with 1.5-inch heat weld.	-75.0

TABLE 7D: RECOVER APPLICATIONS SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER					
System No.	Substrate (Notes 1 & 12)	Roof Cover (Note 15)			MDP (psf)
		Type	Attach		
R-13.	Existing asphaltic granule surface cap sheet	JM PVC Fleece Backed	JM-RSUA, 12-inch o.c.		-45.0
R-14.	Existing granule-surfaced, SBS modified bitumen roof system over structural concrete deck	JM PVC Fleece Backed	JM-RSUA, 6-inch o.c.		-165.0