



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT BY FLORIDA P.E.

Johns Manville Corporation

P.O. Box 5108
Denver, CO 80217
(303) 987-4879

Evaluation Report J9340.05.08-R6

FL1037-R9

Date of Issuance: 05/19/2008

Revision 6: 06/15/2022

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: Johns Manville Built-Up Roofing Systems for use in FBC non-HVHZ jurisdictions

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

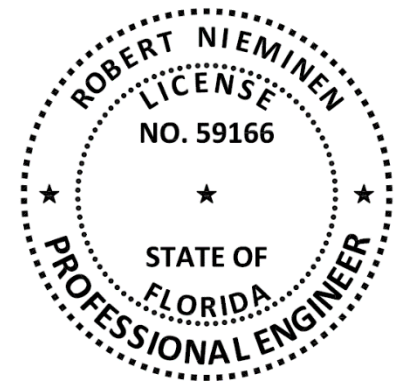
CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes 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 P.E. 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 4, plus a 20-page Appendix.

Prepared by:



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: Built-Up Roofing Systems
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Johns Manville Built-Up Roofing Systems, as produced by Johns Manville Corporation, 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:

<u>SECTION</u>	<u>PROPERTY</u>	<u>STANDARD</u>	<u>YEAR</u>
1504.3.1	Wind resistance	FM 4474	2011
1504.7	Impact resistance	FM 4470	2016
1507.10.2	Material standard	ASTM D2178	2015
1507.10.2	Material standard	ASTM D3909	2014
1507.10.2	Material standard	ASTM D4601	2012
1507.10.2	Material standard	ASTM D4897	2009
1507.11.2	Material standard	ASTM D6162	2015
1507.11.2	Material standard	ASTM D6163	2015
1507.11.2	Material standard	ASTM D6164	2011

3. REFERENCES:

<u>ENTITY</u>	<u>EXAMINATION</u>	<u>REFERENCE</u>	<u>DATE</u>
NEMO	Evaluation Report	J8230.03.08-R15	06-14-22
PRI (TST5878)	ASTM D3909	JMC-069-02-01	06-04-12
PRI (TST5878)	ASTM D3909	507T0079	10-01-20
PRI (TST5878)	ASTM D3909	507T0092	10-22-20
PRI (TST5878)	ASTM D4601	507T0122	02-14-21
PRI (TST5878)	ASTM D4601	507T0117	02-17-21
PRI (TST5878)	ASTM D2178	507T0120	02-17-21
PRI (TST5878)	ASTM D2178	507T0121	02-17-21
PRI (TST5878)	ASTM D4897	507T0123	03-08-21
ERD (TST6049)	FM 4470/4474	4674.11.01-1-R4	10-06-15
FM (TST1867)	FM 4470	1Z5A6.AM	10-25-96
FM (TST1867)	FM 4470	0D3A3.AM	04-04-97
FM (TST1867)	FM 4470	3000949	06-05-98
FM (TST1867)	FM 4470	3001482	08-11-98
FM (TST1867)	FM 4470	3001629	09-10-98
FM (TST1867)	FM 4470	OZ8A9.AM	09-10-98
FM (TST1867)	FM 4470	3D4A4.AM	09-28-98
FM (TST1867)	FM 4470	4D2A3.AM	09-14-99
FM (TST1867)	FM 4470	3006646	01-04-00
FM (TST1867)	FM 4470	3007148	04-19-00
FM (TST1867)	FM 4470	3006346	08-15-00
FM (TST1867)	FM 4470	3009499	04-04-01
FM (TST1867)	FM 4470	3011057	08-10-01
FM (TST1867)	FM 4470	3012974	06-03-02
FM (TST1867)	FM 4470	3014090	09-15-02
FM (TST1867)	FM 4470	3011248	11-01-02
FM (TST1867)	FM 4470	3015444	07-11-03
FM (TST1867)	FM 4470/4474	3022038	04-05-06
FM (TST1867)	FM 4470/4474	3026130	04-26-06
FM (TST1867)	FM 4470/4474	3024594	05-19-06
FM (TST1867)	FM 4470/4474	3015484	03-26-07
FM (TST1867)	FM 4470/4474	3025185	05-22-07
FM (TST1867)	FM 4470/4474	PR459758	08-24-21

ENTITY	EXAMINATION	REFERENCE	DATE
FM (TST1867)	FM 4470/4474	PR460477	06-08-22
IRT (TST7408)	TAS 114	99001.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99002.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99003.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99006.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99007.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99008.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99016.1.20.99	01-20-99
IRT (TST7408)	TAS 114	99009.2.10.99	02-10-99
IRT (TST7408)	TAS 114	99010.2.10.99	02-10-99
IRT (TST7408)	TAS 114	02-011	02-06-02
IRT (TST7408)	TAS 114	02-026	07-26-02
NEMO (TST6049)	FM 4474	4a-CEL-19-LSWUS-01.C	09-01-20
UL LLC (QUA9625)	Quality Assurance	Service Confirmation	04-22-22
UL LLC (QUA9625)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This Evaluation Report covers **Johns Manville Built-Up Roof Systems (BUR)** installed in accordance with **Johns Manville** published installation instructions and the Limitations / Conditions of Use herein.

TABLE 1: EVALUATED MEMBRANES			
Type	Product	Material Standard	Plant(s)
Base Sheets / Base Ply	GlasBase Plus	ASTM D4601	S-CA
	PermaPly 28	ASTM D4601	OK
	Ventsulation Felt	ASTM D4897	OK
Ply	GlasPly IV	ASTM D2178	OK
	GlasPly Premier	ASTM D2178	OK
Cap Ply	GlasKap	ASTM D3909	OK
	GlasKap CR G	ASTM D3909	OK
	GlasKap Plus	ASTM D5147	S-CA
SBS Membranes, Smooth-Surface	DynaPly T1	ASTM D6162	GA
	DynaBase	ASTM D6163	GA
	DynaBase HW	ASTM D6163	GA
	DynaBase XT	ASTM D6163	GA
	DynaWeld Base	ASTM D6163	GA
	DynaBase PR	ASTM D6164	GA
	DynaLastic 180 S	ASTM D6164	GA
	DynaLastic 250 S	ASTM D6164	GA
	DynaWeld 180 S	ASTM D6164	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:

Johns Manville Built-Up Roof Systems shall be installed in accordance with **Johns Manville Corporation** published installation instructions, subject to the Limitations / Conditions of Use 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 20-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 or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	4
1B	Wood	New, Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	4
1C	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	4
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	5
1E	Wood	New, Reroof (Tear-Off) or Recover	D-2	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	5
1F	Wood	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	5
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	6
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	6
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	7
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	8
3B	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	8
4A	Lightweight concrete	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	9-10
4B	Lightweight concrete	New or Reroof (Tear-Off)	E-2	Mech. Attached Base Sheet, Bonded Roof Cover	10-14
4C	Lightweight concrete	New or Reroof (Tear-Off)	E-2	Thermal Barrier to Deck, Temp Roof to Barrier, LWC to Temp Roof, Mech. Attached Base Sheet, Bonded Roof Cover	14
4C	Lightweight concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	14
5A	Existing CWF	Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	15
5B	Existing CWF	Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	15-16
5C	Existing CWF	Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	16
5D	Existing CWF	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	16
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	17
6B	Gypsum	Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	17
6C	Gypsum	Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	18
6D	Gypsum	Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	18
6E	Gypsum	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	19
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	20

The following notes apply to the systems outlined herein:

- 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.
- Unless otherwise noted, fasteners and stress plates shall be as follows. Fastener shall be of sufficient length for the following engagements:

DECK TYPE	BY	FBC FILE NO.	FASTENER/PLATE OPTIONS	
			PARTS	MINIMUM ENGAGEMENT
Wood	Johns Manville	N/A	UltraFast Fastener or All Purpose Fastener with UltraFast Metal Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
Steel	Johns Manville	N/A	UltraFast Fastener or All Purpose Fastener with UltraFast Metal Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Johns Manville	N/A	All Purpose Fastener with UltraFast Metal Plate or Structural Concrete Fastener with UltraFast Metal Plate (flat bottom only)	Minimum 1-inch embedment. Fastener 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 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.
 JM Two Part Urethane Insulation Adhesive Canister, JM Two-Part UIA or JM Two-Part UIA Canister may be used where “JM-UIA-TWO-PART” is referenced
 If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
 When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
 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.

INSULATION ADHESIVE REFERENCES				
BY	FBC FILE NO.	ADHESIVE	REFERENCE	MINIMUM RATE
Johns Manville	N/A	JM MBR Bonding Adhesive	JM-MBR-BA	Continuous 0.75-inch ribbons, 12-inch o.c.
		JM Two Part Urethane Insulation Adhesive	JM-UIA-TWO-PART	Continuous 0.75-inch ribbons, 12-inch o.c.
ICP Construction, Inc.	FL1365	Polyset Commercial Roof Adhesive	Polyset CRA	Continuous 2.5 to 3.5-inch wide ribbons, 12-inch o.c.
Generic, ASTM D312, Type IV	N/A	hot asphalt		Full coverage at 25-30 lbs/square

- 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.

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS				
ADHESIVE	INSULATION		MIN. TAPERED THICKNESS (IN)	MDP (PSF)
	LISTED PRODUCT	FBC FILE NO.		
JM-UIA-TWO-PART	Johns Manville ENRGY 3	FL4205	0.5	-315.0
Polyset CRA	Johns Manville ENRGY 3	FL4205	1.0	-117.5

- 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. For systems using Trufast Versa-Fast, the number of Versa-Fast Fasteners installed through the Versa-Fast Plate may be increased from the minimum noted in order to yield minimum required withdrawal resistance.

- 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 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 the base insulation layer is optional and for System Type 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 Unless otherwise noted, a JM BUR Roof Cover consists of hot asphalt applications of an optional base sheet of Glasbase Plus, PermaPly 28 or DynaBase followed by two or more plies of GlasPly IV or GlasPly Premier and an optional cap sheet of GlasKap, GlasKap Plus or GlasKap CR G. Systems without a cap sheet shall be surfaced in accordance with JM requirements, meeting the fire resistance requirements of FBC 1505.1.
- 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.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		Hot asphalt	-75.0
C-VB-2.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		JM-UIA-TWO-PART, 12-inch o.c.	-97.5
C-VB-3.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		JM-UIA-TWO-PART, 12-inch o.c.	-232.5
C-VB-4.	JM SA Primer Low VOC	JM Vapor Barrier SA		JM-UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-5.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		JM-UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-6.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S		JM-UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-7.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S		Hot asphalt	-337.5

- 17 The following products are interchangeable within the scope of this Evaluation Report.

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	MANUFACTURER	FBC FILE	LISTED PRODUCT HEREIN	ALTERNATE
Roofing Insulation	Johns Manville	FL4205	ENRGY 3	R-Panel, ValuTherm
			ENRGY 3 25 PSI	R-Panel 25 PSI, ValuTherm 25 PSI

- 18 "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-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
W-1.	Min. 19/32" plywood at max. 24-inch span	GlasBase Plus, PermaPly No. 28 or Ventsulation	32 ga., 1-5/8" diameter tin caps with 11 ga. annular ring shank nails	12-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	One or more layers, any combination Min 1" ENRGY 3 or ENRGY 3 25 PSI, Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	JM BUR	-60.0

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
W-2.	Min. 19/32" plywood at max. 24-inch span	Two plies GlasBase Plus, PermaPly 28 or Ventsulation	Note 2	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	One or more layers, any combination Min 1" ENRGY 3 or ENRGY 3 25 PSI; Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	JM BUR	-52.5
W-3.	Min. 19/32" plywood at max. 24-inch span	GlasPly Premier base sheet	Note 2	8-inch o.c. at the 3-inch lap and 8-inch o.c. in three equally spaced, staggered center rows	One or more layers, any combination Min 1" ENRGY 3 or ENRGY 3 25 PSI, Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or Dura Board; Min 3/4" Fesco Board (homogeneous)	hot asphalt	JM BUR	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
W-4.	Min. 19/32" plywood at max. 24-inch span	Min 1" ENRGY 3 or ENRGY 3 25 PSI Min 3/4" Fesco Board (homogeneous) or DuraBoard	Note 2	1 per 2.0 ft ²	Min 3/4" Fesco Board (homogeneous); Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-45.0*
W-5.	Min. 19/32" plywood at max. 24-inch span	Min. 1.4" ENRGY 3 or ENRGY 3 25 PSI, Min 1.5" Fesco Foam or DuraFoam	Note 2	1 per 2.7 ft ²	Min 3/4" Fesco Board (homogeneous); Min 1.5" Fesco Foam or DuraFoam; Min 1/2" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-45.0*

**TABLE 1D: 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	Attach	Type	Fasteners (Note 11)	Attach		
W-6.	Min. 19/32" plywood at max. 24-inch span	(Optional) One or more layers, any combination	Loose laid	Min ¾" Fesco Board (homogeneous) Min ½" Retro-Fit Board or DuraBoard	Note 2	1 per 2.0 ft ²	JM BUR	-45.0*
W-7.	Min. 19/32" plywood at max. 24-inch span	(Optional) One or more layers, any combination	Loose laid	Min 1.5" Fesco Foam or DuraFoam	Note 2	1 per 2.7 ft ²	JM BUR	-45.0*

**TABLE 1E: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-2: PRELIMINARILY ATTACHED INSULATION, 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	Cap Ply	
W-8.	Min. 19/32" plywood at max. 24-inch span	One or more layers, any combination	Prelim Attach	One ply of GlasPly Premier	Note 2	8-inch o.c. at the 3-inch lap and 8-inch o.c. in three equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply No. 28, GlasPly IV and/or GlasPly Premier (min 2 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-52.5

**TABLE 1F: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-9.	Min. 19/32" plywood at max. 24-inch span	GlasBase Plus, PermaPly 28 or Ventsulation	32 ga., 1-5/8" diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. at the 3-inch lap and 18-inch o.c. in two equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply No. 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
W-10.	Min. 19/32" plywood at max. 24-inch span	Two plies GlasBase Plus, PermaPly 28 or Ventsulation	32 ga., 1-5/8" diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply No. 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-52.5
W-11.	Min. 19/32" plywood at max. 24-inch span	GlasPly Premier base sheet	Note 2	8-inch o.c. at the 3-inch lap and 8-inch o.c. in three equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply No. 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-52.5
W-12.	Min. 19/32" plywood at max. 24-inch span	GlasBase Plus, PermaPly 28 or Ventsulation	32 ga., 1-5/8" diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply No. 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0

**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	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-1.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2" ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 5.3 ft ²	Min ½" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-45.0*
S-2.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.4" ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 2.7 ft ²	One or more Layers of Min 1.5" Fesco Foam or DuraFoam, Min ¾" Fesco(Tapered) or Min ½" Retro-Fit	hot asphalt	JM BUR	-45.0*
S-3.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2" ENRGY 3 or ENRGY 3 25 PSI, Min 1.5" Fesco Foam	Note 2	1 per 4.0 ft ²	One or more Layers of Min 1.5" Fesco Foam or DuraFoam, Min ¾" Fesco(Tapered) or Min ½" Retro-Fit	hot asphalt	JM BUR	-45.0*
S-4.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min ¾" Fesco	Note 2	1 per 2.0 ft ²	One or more Layers of Min 1.5" Fesco Foam or DuraFoam, Min ¾" Fesco(Tapered), or Min ½" Retro-Fit	hot asphalt	JM BUR	-45.0*
S-5.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI, Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	Min 1.5" Fesco Foam or DuraFoam, Min ½" Retro-Fit Board or DuraBoard or Min ¾" Tapered Fesco or Fesco Board (homogeneous)	hot asphalt	JM BUR	-45.0*
S-6.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1" Fesco Board (homogeneous) or Dura Board	Note 2	1 per 2.0 ft ²	Min 1.5" Fesco Foam or DuraFoam, Min ½" Retro-Fit Board or DuraBoard or Min ¾" Tapered Fesco or Fesco Board (homogeneous)	hot asphalt	JM BUR	-45.0*
S-7.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI, Fesco Foam, DuraFoam	Note 2	1 per 1.8 ft ²	Min 1.5" Fesco Foam, DuraFoam, Min ½" Retro-Fit Board or DuraBoard or Min ¾" Fesco Board (homogeneous)	hot asphalt	JM BUR	-60.0
S-8.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2" ENRGY 3 or ENRGY 3 25 PSI, Fesco Foam, DuraFoam	Note 2	1 per 1.45 ft ²	Min ½" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-75.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE 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	Attach	Type	Fasteners (Note 11)	Attach		
S-9.	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 1.5" Fesco Foam	Note 2	1 per 4.0 ft ²	JM BUR	-45.0*
S-10.	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. 1" Fesco Board (homogeneous) or min. 1/2" Retro-Fit Board	Note 2	1 per 2.0 ft ²	JM BUR	-45.0*
S-11.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" ENRGY 3 or ENRGY 3 25 PSI	Loose laid	Min ¾" Fesco Board (homogeneous) or DuraBoard	Note 2	1 per 1.3 ft ²	JM BUR	-75.0

**TABLE 2c: STEEL OR STRUCTURAL CONCRETE DECKS– NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-2: PRELIMINARILY ATTACHED INSULATION, 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	Cap Ply	
S-12.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim Attach	One ply of PermaPly 28, DynaBase, 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	One or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
S-13.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI	Prelim. Attached	One ply of PermaPly 28, DynaBase, GlasBase Plus, DynaBase or Ventsulation	Note 2	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	One or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-97.5

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)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-1.	Min. 2,500 psi structural concrete, primed	Min ¾" Fesco Board (homogeneous)	hot asphalt	(Optional) Additional layers of base insulation	hot asphalt	JM BUR	-112.0
C-2.	Min. 2,500 psi structural concrete, primed	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI	hot asphalt	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-120.0
C-3.	Min. 2,500 psi structural concrete, primed	Min 1.5" DuraFoam or Fesco Foam, Min 1.75" ENRGY 3 or ENRGY 3 25 PSI	hot asphalt	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-126.5
C-4.	Min. 2,500 psi structural concrete, primed	Min 1.5 " ENRGY 3 or ENRGY 3 25 PSI, Min ¾" Fesco Board (homogeneous), Min ½" Retro-Fit Board or DuraBoard	hot asphalt	Min ¾" Fesco Board (homogeneous) Min ½" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-150.0
C-5.	Min. 2,500 psi structural concrete, primed	Min 1.5" DuraFoam or Fesco Foam, Min 1.4" ENRGY 3 or ENRGY 3 25 PSI	hot asphalt	Min. ½" Retro-Fit or DuraBoard	hot asphalt	JM BUR	-155.0
C-6.	Min. 2,500 psi structural concrete, primed	Min 1.5 " ENRGY 3 or ENRGY 3 25 PSI, Min ¾" Fesco Board (homogeneous), Min ½" Retro-Fit Board or DuraBoard	hot asphalt	Min. 1.5" Fesco Foam or DuraFoam, Min ¾" Fesco Board (homogeneous), Min ½" Retro-Fit Board or DuraBoard	hot asphalt	JM BUR	-305.0
C-7.	Min. 2,500 psi structural concrete, primed	(Optional) Min. 1.5-inch ENRGY 3	hot asphalt	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	JM BUR	-495.0
C-8.	Min. 2,500 psi structural concrete	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI	MBR Adhesive	Min ¾" Fesco Board (homogeneous) or DuraBoard	MBR Adhesive	JM BUR	-120.0
C-9.	Min. 2,500 psi structural concrete	Min. ¾-inch FescoBoard (homogeneous)	JM-UIA-TWO-PART	(Optional) Min. ¾-inch FescoBoard (homogeneous)	JM-UIA-TWO-PART	JM BUR	-285.0
C-10.	Min. 2,500 psi structural concrete	Min. ½-inch Retro-Fit Board or DuraBoard	JM-UIA-TWO-PART	(Optional) Min. ½-inch Retro-Fit Board or DuraBoard	JM-UIA-TWO-PART	JM BUR	-305.0
C-11.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ENRGY 3	JM-UIA-TWO-PART	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	JM-UIA-TWO-PART	JM BUR	-442.5
C-12.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ENRGY 3	Polysat CRA	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	CRA	JM BUR	-442.5

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

System No.	Deck (Note 1)	Roof Cover (Note 15)			MDP (psf)
		Base Ply	Ply	Cap Ply	
C-13.	Min. 2,500 psi structural concrete, primed	One ply of Ventsulation	Two or more plies of GlasPly IV or GlasPly Premier	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-220.0
C-14.	Min. 2,500 psi structural concrete, primed	One or more plies of GlasBase Plus, PermaPly 28, DynaBase, GlasPly IV or GlasPly Premier	Two or more plies of GlasPly IV or GlasPly Premier	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-275.0

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach		
CELCORE (FL2037):										
LWC-1.	Min. 22 ga, Type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at the 4-inch lap and 16-inch o.c. at two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-37.5
LWC-2.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase or GlasPly Premier	Trufast FM-90 Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-60.0
CONCRECEL (FL5584 OR FL10500):										
LWC-3.	Min. 22 ga, type BV, Grade 80 steel or structural concrete	Min. 300 psi, minimum 2¼-inch thick Concrecel Concrete	One ply of GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-82.5
ELASTIZELL (FL4994):										
LWC-4.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nail Assembled Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-45.0
PRE-EXISTENT LIGHTWEIGHT CONCRETE (NOTE 14):										
LWC-5.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, min. 2-inch thick pre-existent cellular or aggregate LWC. <i>To qualify the LWC, the fastener shall document min. 93 lbf</i>	One ply of GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-52.5
LWC-6.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick pre-existent cellular or aggregate LWC <i>To qualify the LWC, the fastener shall document min. 62 lbf</i>	One ply of Dynabase, Ventsulation, GlasBase Plus or PermaPly 28 base	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-52.5

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach		
LWC-7.	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-60.0
LWC-8.	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWC. <i>Note: To qualify the LWC, the fastener shall document min. 110 lbf per Note 11.</i>	DynaBase	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-75.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
CELCORE (FL2037):								
LWC-9.	Min. 22 ga, Type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at the 4-inch lap and 16-inch o.c. at two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-37.5
LWC-10.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-11.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase or GlasPly Premier	Trufast FM-90 Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
LWC-12.	Min. 22 ga, type BV, Grade 40 steel or structural concrete	Deck Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture LWC Treatment: Celcore PVA Curing Compound	DynaLastic 180 S or DynaLastic 250 S	Trufast Versa-Fast Fasteners with Versa-Fast Plates; four (4) fasteners per plate; Fasteners of sufficient length for min. 2.25-inch embedment into LWC or sufficient to provide required withdrawal resistance capacity	10-inch o.c. within the 5-inch wide, heat-welded side laps	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-67.5
LWC-13.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick Celcore Cellular Concrete	DynaBase, PermaPly 28, Ventsulation or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0
CONCRECEL (FL5584 OR FL10500):								
LWC-14.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 500 psi, min. 2-inch thick Concrecel Concrete	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-15.	Min. 22 ga, type BV, Grade 80 steel or structural concrete	Min. 300 psi, minimum 2¼-inch thick Concrecel Concrete	GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-82.5
LWC-16.	Structural concrete	Min. 300 psi, min. 2-inch thick Concrecel Concrete.	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-120.0
ELASTIZELL (FL4994):								
LWC-17.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-37.5
LWC-18.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nail Assembled Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
LWC-19.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 430 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	PermaPly 28, GlasBase Plus, DynaBase or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0
MEARLCRETE (FL13492):								
LWC-20.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete LWIC	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
PRE-EXISTENT LIGHTWEIGHT CONCRETE (NOTE 14):								
LWC-21.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 22 lbf per Note 11.</i>	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-30.0
LWC-22.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 35 lbf per Note 11.</i>	PermaPly 28, GlasBase Plus, DynaBase, Ventsulation	JM UltraLok Locking Impact Fastener and Plate, min. 1.4-inch or JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch (Note 11)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-30.0
LWC-23.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 210 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 55 lbf per Note 11.</i>	PermaPly 28, GlasBase Plus, DynaBase, Ventsulation	JM UltraLok Locking Impact Fastener and Plate, min. 1.4-inch (Note 11)	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-30.0
LWC-24.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, min. 2-inch thick pre-existent cellular LWIC <i>To qualify the LWC, the fastener shall document min. 93 lbf</i>	PermaPly 28, DynaBase, Ventsulation or Glasply Premier	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-52.5
LWC-25.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, min. 2-inch thick pre-existent cellular LWIC <i>To qualify the LWC, the fastener shall document min. 62 lbf</i>	GlasBase Plus, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-52.5

**TABLE 4b: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
LWC-26.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, minimum 2-inch thick pre-existent cellular LWIC <i>To qualify the LWC, the fastener shall document min. 88 lbf</i>	PermaPly 28	JM UltraLok 1.8" Fasteners (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-27.	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-28.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 69 lbf per Note 11.</i>	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-29.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 66 lbf per Note 11.</i>	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. at three, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-30.	Min. 22 ga, type B, 50 ksi steel	Min. 430 psi, min. 2-inch thick cellular lightweight concrete.	DynaFast 180 S	High Load Fastener and High Load Plate (engage steel deck)	12-inch o.c. within the min. 5-inch wide, heat-welded side laps.	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0
LWC-31.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 77 lbf per Note 11.</i>	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener (Note 11)	7-inch o.c. at the 4-inch lap and 7-inch o.c. at two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-67.5
LWC-32.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, minimum 2-inch thick pre-existent cellular LWIC <i>To qualify the LWC, the fastener shall document min. 110 lbf</i>	DynaBase	JM Ultra-Lok 1.8" Fasteners (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0
LWC-33.	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 110 lbf per Note 11.</i>	DynaBase	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0

**TABLE 4b: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
LWC-34.	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC	DynaBase, Ventsulation or Glasply Premier	Note 2 (Through to the structural deck)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0
LWC-35.	Min. 22 ga, type B, 60 ksi steel	Min. 180 psi, min. 2-inch thick cellular lightweight concrete.	DynaFast 180 S	High Load Fastener and High Load Plate (engage steel deck)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-97.5

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR CWF DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: THERMAL BARRIER TO DECK, TEMP ROOF TO THERMAL BARRIER, LWC TO TEMP ROOF, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	LWC (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach			Base	Fasten	Spacing	Base Ply	Cap Ply	
CELCORE (FL2037):												
LWC-36.	Min. 22 ga. type B, Grade 33 steel	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	DynaBase HW, DynaWeld Base or DynaWeld 180 S, torch-applied	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	DynaBase, DynaLastic 180 S, GlasBase Plus, GlasPly Premier or Ventsulation	Trufast FM-90 Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-60.0

**TABLE 4d: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Adhesive / Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
CONCRECEL (FL5584 OR FL10500):								
LWC-37.	Min. 22 ga, type BV, Grade 80 steel or structural concrete	Min. 300 psi, minimum 2¼-inch thick Concrecel Concrete	GlasPly Premier	Hot asphalt	50% strip mopped	One or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 2 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-67.5
LWC-38.	Min. 22 ga, type BV, Grade 80 steel or structural concrete	Min. 300 psi, minimum 2¼-inch thick Concrecel Concrete	GlasPly Premier	Hot asphalt and JM LWC Pre-Assembled Base Sheet Fastener	50% strip mopped plus fasteners 4-inch o.c. at the 4-inch lap and 4-inch o.c. in four, equally spaced center rows	One or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 2 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-146.0

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY FASTENED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)		
CWF-1.	Existing Tectum	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	JM BUR	-45.0*
CWF-2.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Locking Impact Fastener and Plate (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	JM BUR	-45.0*
CWF-3.	Existing Tectum	GlasBase Plus, PermaPly 28 or Ventsulation	JM Polymer Auger Fasteners and Plates	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min ½" Retro-Fit Board or DuraBoard or Min ¾" Fesco Board (homogeneous)	hot asphalt	JM BUR	-45.0*
CWF-4.	Existing Tectum	GlasPly Premier	JM UltraLok Locking Impact Fastener and Plate; Min 1" Embedment (Field W/D ≥ 146 lbf)	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-82.5

TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – 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	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
CWF-5.	Existing Tectum	Min. 1.5-inch ENRGY 3 or ENRGY 3 25 PSI	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-37.5*
CWF-6.	Existing Tectum	Min. 1.5-inch ENRGY 3 or ENRGY 3 25 PSI	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-45.0*
CWF-7.	Existing Tectum	Min 1.3" ENRGY 3 or ENRGY 3 25 PSI	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 270 lbf)	1 per 3.0 ft ²	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-45.0*
CWF-8.	Existing Tectum	Min 1.5" Fesco Foam or DuraFoam	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 360 lbf)	1 per 4.0 ft ²	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-45.0*

TABLE 5b: CEMENTITIOUS WOOD FIBER DECKS – 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	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
CWF-9.	Existing Tectum	Min ¾" Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-45.0*

TABLE 5c: 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	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CWF-10.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	JM BUR	-37.5*
CWF-11.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	JM BUR	-45.0*
CWF-12.	Existing Tectum	(Optional) One or more layers, any combination, loose-laid	Min 1.5" Fesco Foam or DuraFoam	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 360 lbf)	1 per 4.0 ft ²	JM BUR	-45.0*
CWF-13.	Existing Tectum	(Optional) One or more layers, any combination, loose-laid	Min ¾" Fesco Board (homogeneous) or min ½" Retro-Fit Board or DuraBoard	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	JM BUR	-45.0*

TABLE 5d: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
CWF-14.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fastener & Plate (Field W/D ≥ 159 lbf)	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
CWF-15.	Existing Tectum	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
CWF-16.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Locking Impact Fastener and Plate (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
CWF-17.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Locking Impact Fastener and Plate (Field W/D ≥ 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-82.5

**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 gypsum deck	(Optional) Min. 1.5-inch ENRGY-3	JM-UIA-TWO-PART	Min. ½-inch Retro-Fit Board or DuraBoard or min. ¾-inch Fesco Board (homogeneous)	JM-UIA-TWO-PART	JM BUR	-112.5
G-2.	Existing gypsum deck	(Optional) Min. 1.5-inch ENRGY-3	JM-UIA-TWO-PART	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	JM-UIA-TWO-PART	JM BUR	-112.5
G-3.	Existing gypsum deck	Min. 1.5-inch ENRGY-3	Polyset CRA	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	JM BUR	-257.5

**TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY FASTENED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)		
G-4.	Existing gypsum deck	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3 or ENRGY 3 25 PSI	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	JM BUR	-45.0*
G-5.	Existing gypsum deck	GlasBase Plus, PermaPly 28 or Ventsulation	JM Polymer Auger Fasteners and Plates (Field W/D ≥ 72 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min ½" Retro-Fit Board or DuraBoard or Min ¾" Fesco Board (homogeneous)	hot asphalt	JM BUR	-45.0*
G-6.	Existing gypsum deck	GlasPly Premier	JM UltraLok Locking Impact Fastener and Plate; Min 1" Embedment (Field W/D ≥ 123 lbf)	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or more layers Min 1" ENRGY 3 or ENRGY 3 25 PSI	Min ½" Retro-Fit Board or DuraBoard or Min ¾" Fesco Board (homogeneous)	hot asphalt	JM BUR	-75.0

TABLE 6c: GYPSUM DECKS – 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	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
G-7.	Existing gypsum deck	Min. 1.5-inch ENRGY 3 or ENRGY 3 25 PSI	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-37.5*
G-8.	Existing gypsum deck	Min. 1.5-inch ENRGY 3 or ENRGY 3 25 PSI	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	hot asphalt	JM BUR	-45.0*
G-9.	Existing gypsum deck	Min 1.3" ENRGY 3 or ENRGY 3 25 PSI	JM Polymer Auger Fasteners and Plates (Field W/D \geq 240 lbf)	1 per 2.7 ft ²	Min ¾" Fesco Board (homogeneous) or DuraBoard or Min ½" Retro-Fit Board	hot asphalt	JM BUR	-45.0*
G-10.	Existing gypsum deck	Min. ¾" Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fasteners and Plates (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	Min ¾" Fesco Board (homogeneous) or DuraBoard or Min ½" Retro-Fit Board	hot asphalt	JM BUR	-45.0*

TABLE 6d: 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	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)	
			Type	Fasteners (Note 11)	Attach			
G-11.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 134 lbf)	1 per 1.78 ft ²	JM BUR	-37.5*	
G-12.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	JM BUR	-45.0*	
G-13.	Existing gypsum deck	(Optional) One or more layers, any combination, loose-laid	Min 1.5" Fesco Foam or DuraFoam, Min ¾" Fesco Board (homogeneous), Min ½" Retro-Fit Board or DuraBoard	JM Polymer Auger Fasteners and Plates (Field W/D \geq 240 lbf)	1 per 2.7 ft ²	JM BUR	-45.0*	
G-14.	Existing gypsum deck	(Optional) One or more layers, any combination, loose-laid	Min ¾" Fesco Board (homogeneous) or min ½" Retro-Fit Board or DuraBoard	JM Polymer Auger Fasteners and Plates (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	JM BUR	-45.0*	

**TABLE 6E: GYPSUM DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
G-15.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fastener & Plate (Field W/D ≥ 159 lbf)	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
G-16.	Existing gypsum deck	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
G-17.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Locking Impact Fastener and Plate (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-45.0*
G-18.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Locking Impact Fastener and Plate; Min 1" Embedment (Field W/D ≥ 136 lbf)	9-inch o.c. at the 3-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Two or more plies of GlasBase Plus, Perma Ply 28, GlasPly IV and/or GlasPly Premier (min 3 plies if no cap)	(Optional) One ply of GlasKap, GlasKap CR G or GlasKap Plus	-75.0

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

^A The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
R-1.	Existing asphaltic roof	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI	hot asphalt	Min ¾" Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-120.0
R-2.	Existing asphaltic roof	Min. ¾-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	(Optional) Min. ¾-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	JM BUR	-167.5
R-3.	Existing asphaltic roof	Min. 1.5-inch ENRGY 3	hot asphalt	Min. ½-inch Retro-Fit Board or min. ¾-inch Fesco Board (homogeneous) or DuraBoard	hot asphalt	JM BUR	-305.0
R-4.	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	JM BUR	-305.0
R-5.	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3	hot asphalt	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	JM BUR	-420.0
R-6.	Existing asphaltic roof	Min 1.5" ENRGY 3 or ENRGY 3 25 PSI	MBR-BA	Min ¾" Fesco Board (homogeneous) or DuraBoard	MBR-BA	JM BUR	-120.0
R-7.	Existing asphaltic roof	Min. ¾-inch FescoBoard (homogeneous), min. ½-inch Retro-Fit Board or DuraBoard	JM-UIA-TWO-PART	(Optional) Min. ¾-inch FescoBoard (homogeneous), min. ½-inch Retro-Fit Board or DuraBoard	JM-UIA-TWO-PART	JM BUR	-120.0
R-8.	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3	JM-UIA-TWO-PART	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	JM-UIA-TWO-PART	JM BUR	-120.0
R-9.	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3	Polyset CRA	Min. ¾-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	JM BUR	-262.5