



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

Johns Manville Corporation

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Evaluation Report J8230.03.08-R13

FL2948-R14

Date of Issuance: 03/28/2008

Revision 13: 10/26/2020

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 SBS Modified Bitumen 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.

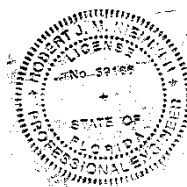
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5, plus a 49-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 10/26/2020. 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: Modified Bitumen Roof Systems
Compliance Statement: Johns Manville SBS Modified Bitumen Roof 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:

Section	Property	Standard	Year
1504.3.1	Wind resistance	FM 4474	2011
1504.3.1	Wind resistance	UL 1897	2015
1504.6	Accelerated weathering	ASTM G155	2013
1504.7	Impact resistance	FM 4470	2016
1507.10.2	Material standard	ASTM D2178	2015
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
1507.11.2	Material standard	ASTM D6298	2013

3. REFERENCES:

Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
ACRC (TST4671)	TAS 114	03-017	09/30/2003	PRI (TST5878)	ASTM D2178	JMC-070-02-01	04/17/2012
ACRC (TST4671)	TAS 114	03-015	09/30/2003	PRI (TST5878)	ASTM D2178	JMC-071-02-01	04/17/2012
ACRC (TST4671)	TAS 114	03-012	12/04/2003	PRI (TST5878)	ASTM D4897	JMC-074-02-01	04/17/2012
ACRC (TST4671)	TAS 114	06-003	03/27/2006	PRI (TST5878)	ASTM D4601	JMC-076-02-01	04/17/2012
ACRC (TST4671)	TAS 114	06-005	03/27/2006	PRI (TST5878)	ASTM D6163	JMC-065-02-01	05/29/2012
ACRC (TST4671)	TAS 114	06-009	06/28/2006	PRI (TST5878)	ASTM D6163	JMC-066-02-01	06/04/2012
ACRC (TST4671)	TAS 114	07-014	04/18/2007	PRI (TST5878)	ASTM D3909	JMC-069-02-01	06/04/2012
ERD (TST6049)	TAS 114	02843.02.07	02/07/2007	PRI (TST5878)	ASTM D4601	JMC-072-02-02	06/04/2012
ERD (TST6049)	FM 4470/4474	J30820.09.10-1	09/16/2010	PRI (TST5878)	ASTM D6163	JMC-234-02-02	06/04/2012
ERD (TST6049)	FM 4470/4474	J30820.09.10-1	04/04/2011	PRI (TST5878)	ASTM D4601	JMC-091-02-01	06/11/2012
ERD (TST6049)	FM 4470/4474	JM-SC7565.10.14-1	10/13/2014	PRI (TST5878)	ASTM D6298	JMC-078-02-01	07/17/2012
ERD (TST6049)	FM 4470/4474	RA5-SC8750.05.15	05/27/2015	PRI (TST5878)	ASTM D4601	JMC-093-02-01	08/02/2012
ERD (TST6049)	FM 4470/4474	JM-SC7565.08.15-1	08/03/2015	PRI (TST5878)	ASTM D6164	JMC-075-02-04	08/03/2012
ERD (TST6049)	FM 4470/4474	JM-SC11320.03.16	03/10/2016	PRI (TST5878)	ASTM D6164	JMC-234-02-06	08/03/2012
ERD (TST6049)	FM 4470/4474	JM-11190.03.16	03/11/2016	PRI (TST5878)	ASTM D6164	JMC-106-02-01	04/15/2013
FM (TST1867)	FM 4470	1Q6A4.AM	12/11/1990	PRI (TST5878)	FM 4470/4474	JMC-108-02-01	04/16/2013
FM (TST1867)	FM 4470	3001002	05/11/1998	PRI (TST5878)	FM 4470/4474	JMC-109-02-01	04/16/2013
FM (TST1867)	FM 4470	3001482	08/11/1998	PRI (TST5878)	FM 4470/4474	JMC-114-02-01	04/16/2013
FM (TST1867)	FM 4470	3001623	09/10/1998	PRI (TST5878)	FM 4470/4474	JMC-118-02-01	04/16/2013
FM (TST1867)	FM 4470	3002823	04/01/1999	PRI (TST5878)	FM 4470/4474	JMC-126-02-01	04/17/2013
FM (TST1867)	FM 4470	3003468	02/02/2000	PRI (TST5878)	FM 4470/4474	JMC-131-02-01	04/17/2013
FM (TST1867)	FM 4470	3007148	04/19/2000	PRI (TST5878)	FM 4470/4474	JMC-132-02-01	04/17/2013
FM (TST1867)	FM 4470	3005753	09/13/2000	PRI (TST5878)	ASTM D6164	JMC-113-02-01	04/19/2013
FM (TST1867)	FM 4470	3006346	09/15/2000	PRI (TST5878)	FM 4470/4474	JMC-118-02-02	04/19/2013
FM (TST1867)	FM 4470	3009499	04/04/2001	PRI (TST5878)	ASTM D6162	JMC-105-02-02	05/13/2013
FM (TST1867)	FM 4470	3011057	08/10/2001	PRI (TST5878)	ASTM D6162	JMC-234-02-01	05/13/2013
FM (TST1867)	FM 4470	3001457	03/04/2002	PRI (TST5878)	FM 4470/4474	JMC-141-02-01	05/13/2013
FM (TST1867)	FM 4470	3001457	04/04/2002	PRI (TST5878)	ASTM D4601	JMC-147-02-01	05/28/2013
FM (TST1867)	FM 4470	3012974	06/03/2002	PRI (TST5878)	ASTM D6163	JMC-171-02-01	01/10/2014
FM (TST1867)	FM 4470	3012064	06/25/2002	PRI (TST5878)	ASTM D6163	JMC-171-02-01	01/10/2014
FM (TST1867)	FM 4470	3014090	09/05/2002	PRI (TST5878)	ASTM D6163	JMC-171-02-02	01/10/2014
FM (TST1867)	FM 4470	3011248	11/02/2002	PRI (TST5878)	ASTM D6164	JMC-171-02-03	01/10/2014
FM (TST1867)	FM 4470	3015224	02/21/2003	PRI (TST5878)	ASTM D6162	JMC-171-02-10	01/10/2014
FM (TST1867)	FM 4470	3017543	03/05/2004	PRI (TST5878)	ASTM D6164	JMC-171-02-07.1	02/24/2014
FM (TST1867)	FM 4470	3020586	06/09/2004	PRI (TST5878)	ASTM D6164	JMC-234-02-05	02/24/2014
FM (TST1867)	FM 4470	3020703	07/30/2004	PRI (TST5878)	ASTM D6163	JMC-171-02-04	03/03/2014
FM (TST1867)	FM 4470/4474	3020586	11/29/2004	PRI (TST5878)	ASTM D6163	JMC-234-02-03	03/03/2014
FM (TST1867)	FM 4470/4474	3020600	01/21/2005	PRI (TST5878)	ASTM D6164	JMC-171-02-11	03/14/2014

Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
FM (TST1867)	FM 4470/4474	3026130	04/26/2006	PRI (TST5878)	FM 4470/4474	JMC-222-02-01	02/26/2015
FM (TST1867)	FM 4470/4474	3023458	07/18/2006	PRI (TST5878)	FM 4470/4474	JMC-222-02-02	04/22/2015
FM (TST1867)	FM 4470/4474	3026128	08/04/2006	PRI (TST5878)	UL 1897	JMC-222-02-02(A)	04/22/2015
FM (TST1867)	FM 4470/4474	3026151	08/15/2006	PRI (TST5878)	ASTM D6162	JMC-227-02-01.2	06/15/2015
FM (TST1867)	FM 4470/4474	3024311	11/01/2006	PRI (TST5878)	FM 4470/4474	JMC-222-02-04	08/14/2015
FM (TST1867)	FM 4470/4474	3026728	11/22/2006	PRI (TST5878)	FM 4470/4474	JMC-242-02-01	11/18/2015
FM (TST1867)	FM 4470/4474	163479-48573-0	01/09/2007	PRI (TST5878)	FM 4470/4474	JMC-242-02-02	11/18/2015
FM (TST1867)	FM 4470/4474	3029993	09/21/2007	PRI (TST5878)	FM 4470/4474	JMC-242-02-03	11/18/2015
FM (TST1867)	FM 4470/4474	3035191	05/20/2009	PRI (TST5878)	ASTM D6164	JMC-238-02-03	12/01/2015
FM (TST1867)	FM 4470/4474	3034810	09/10/2009	PRI (TST5878)	ASTM D6163	JMC-238-02-01.1	02/01/2016
FM (TST1867)	FM 4470/4474	3036559	10/02/2009	PRI (TST5878)	ASTM D6162	JMC-238-02-04	03/23/2016
FM (TST1867)	FM 4470/4474	3037222	10/02/2009	PRI (TST5878)	FM 4470/4474	JMC-245-02-01	03/29/2016
FM (TST1867)	FM 4470/4474	3037929	07/18/2011	PRI (TST5878)	FM 4470/4474	JMC-245-02-02	03/29/2016
FM (TST1867)	FM 4470/4474	3040986	09/23/2011	PRI (TST5878)	FM 4470/4474	JMC-268-02-01	03/30/2016
FM (TST1867)	FM 4470/4474	3043824	04/06/2012	PRI (TST5878)	FM 4470/4474	JMC-267-02-01	03/31/2016
FM (TST1867)	FM 4470/4474	797-07736-267	10/04/2012	PRI (TST5878)	FM 4470/4474	JMC-267-02-02	04/05/2016
FM (TST1867)	FM 4470/4474	3044716	10/19/2012	PRI (TST5878)	FM 4470/4474	JMC-272-02-01	04/07/2016
FM (TST1867)	FM 4470/4474	3046174	04/03/2013	M-D (CER1592)	TAS 114	Various NOAs	Current
FM (TST1867)	FM 4470	3053754	03/04/2015	UL (QUA9625)	Quality Assurance	Service Confirm	04/24/2019
FM (TST1867)	FM 4470/4474	3060143	01/05/2017	UL (QUA9625)	Quality Assurance	Florida BCIS	Current
FM (TST1867)	FM 4470/4474	PR454790	04/02/2020				

4. PRODUCT DESCRIPTION:

This Evaluation Report covers **Johns Manville SBS Modified Bitumen Roof Systems** 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)
		Reference	Type	Grade	
Base Sheets	JMCleanBond SBS Base	ASTM D4601	I	N/A	GA
	DynaGrip Base SD/SA	ASTM D4601	I	N/A	S-CA
	GlasBase Plus	ASTM D4601	II	N/A	S-CA
	PermaPly 28	ASTM D4601	II	N/A	OK
	JM Basegrip SD/SA	ASTM D4601	II	N/A	AL
	Ventsulation Felt	ASTM D4897	II	N/A	OK
Ply Sheets	GlasPly IV	ASTM D2178	IV	N/A	OK
	GlasPly Premier	ASTM D2178	VI	N/A	OK
SBS, Smooth-Surface Membranes	DynaPly T1	ASTM D6162	I	S	GA
	DynaMax S	ASTM D6162	III	S	GA
	DynaBase	ASTM D6163	I	S	GA
	DynaBase HW	ASTM D6163	I	S	GA
	DynaBase XT	ASTM D6163	I	S	GA
	DynaWeld Base	ASTM D6163	I	S	GA
	DynaBase PR	ASTM D6164	I	S	GA
	DynaFast 180 HW	ASTM D6164	I	S	GA
	DynaFast 180 S	ASTM D6164	I	S	GA
	DynaFast 250 HW	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
	DynaWeld Cap 250 S	ASTM D6164	II	S	GA
SBS, Granule Surface Membranes	DynaKap FR T1	ASTM D6162	I	G	GA
	DynaKap FR T1 CR G	ASTM D6162	I	G	GA
	DynaKap FR T1 HW CR G	ASTM D6162	I	G	GA
	DynaMax FR	ASTM D6162	III	G	GA
	DynaMax FR CR	ASTM D6162	III	G	GA
	DynaMax FR HW	ASTM D6162	III	G	GA
	DynaMax FR HW CR	ASTM D6162	III	G	GA

TABLE 1: EVALUATED MEMBRANES

Type	Product	Material Standard			Plant(s)
		Reference	Type	Grade	
SBS, Granule Surface Membranes	DynaMax FR Plus	ASTM D6162	III	G	GA
	DynaGlas	ASTM D6163	I	G	GA
	DynaGlas 30 FR	ASTM D6163	I	G	GA
	DynaGlas FR	ASTM D6163	I	G	GA
	DynaGlas FR CR	ASTM D6163	I	G	GA
	DynaGlas FR CR G	ASTM D6163	I	G	GA
	DynaGlas FR XT	ASTM D6163	I	G	GA
	DynaWeld Cap	ASTM D6163	I	G	GA
	DynaWeld Cap FR	ASTM D6163	I	G	GA
	DynaWeld Cap FR CR	ASTM D6163	I	G	GA
	DynaWeld Cap FR CR G	ASTM D6163	I	G	GA
	DynaWeld Cap FR XT	ASTM D6163	I	G	GA
	DynaLastic 180	ASTM D6164	I	G	GA
	DynaLastic 180 FR	ASTM D6164	I	G	GA
	DynaLastic 180 FR CR	ASTM D6164	I	G	GA
	DynaLastic 180 FR CR G	ASTM D6164	I	G	GA
	DynaWeld Cap 180 FR	ASTM D6164	I	G	GA
	DynaWeld Cap 180 FR CR	ASTM D6164	I	G	GA
	DynaLastic 250 FR	ASTM D6164	II	G	GA
	DynaLastic 250 FR CR	ASTM D6164	II	G	GA
	DynaLastic 250 FR CR G	ASTM D6164	II	G	GA
	DynaWeld Cap 250	ASTM D6164	II	G	GA
	DynaWeld Cap 250 FR	ASTM D6164	II	G	GA
	DynaWeld Cap 250 FR CR	ASTM D6164	II	G	GA
	DynaWeld Cap 250 FR CR G	ASTM D6164	II	G	GA
SBS, Foil Surface Membranes	DynaClad	ASTM D6298	N/A	N/A	F-CA

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 SBS Modified Bitumen Roof Systems shall be installed in accordance with **Johns Manville** published installation instructions, subject to the Limitations / Conditions of Use noted below.

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; (613) 371-2765; Jacob.Stewart@ul.com

- THE 49-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-1	Bonded Insulation, Bonded Roof Cover	5
1B	Wood	New or Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	5
1C	Wood	New, Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	6
1D	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	6
1E	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	7
1F	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	7
1G	Wood	New, Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	8
1H	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	8
2A	Steel or Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9-13
2B	Steel or Concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	14-17
2C	Steel or Concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	18-20
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	21-25
3B	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Temporary Roof, Bonded Insulation, Bonded Roof Cover	25-26
3C	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	26
3D	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover, Paver System Overburden	27
4A	LWIC	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	28-31
4B	LWIC	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	32
4C	LWIC	New, Reroof (Tear-Off) or Recover	C-1	LWC to Deck, Mechanically Attached Insulation, Bonded Roof Cover	32
4D	LWIC	New or Reroof (Tear-Off)	E-2	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	33-37
4E	LWIC	New, Reroof (Tear-Off) or Recover	E-2	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	38
4F	LWIC	New or Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	38
4G	LWIC	New or Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover, Paver System Overburden	38
5A	CWF	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	39
5B	CWF	Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	40
5B	CWF	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	40
5C	CWF	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	41
5D	CWF	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	41
6A	Gypsum	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	42-43
6B	Gypsum	New, Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	43-44
6C	Gypsum	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	45
6D	Gypsum	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	45
6E	Gypsum	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	46
7	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	47-49

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 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
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base Ply	GlasBase Plus, PermaPly 28	Hot asphalt at 20-40 lbs/square
	Ply	GlasPly IV, GlasPly Premier, GlasBase Plus, PermaPly 28	
SBS-AA (SBS, Asphalt-Applied)	Base Ply or Ply	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	
	Cap Ply	DynaPly T1, DynaKap T1, DynaKap FR T1, DynaKap FR T1 CR, DynaKap FR T1 CR G, DynaGlas, DynaGlas FR, DynaGlas FR XT, DynaGlas FR XT CR, DynaGlas FR XT CR G, DynaGlas FR CR, DynaGlas FR CR G, DynaGlas 30 FR, DynaGlas 30 FR CR, DynaGlas 30 FR, DynaGlas 30 FR CR XT, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaLastic 250, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, DynaMax FR CR G	
BP-CA1 (Base and Ply sheets, Cold-Applied, 1-part)	Base Ply or Ply	GlasBase Plus, PermaPly 28	JM MBR Cold Application Adhesive at 1.5 to 2.0 gal/square
SBS-CA1 (SBS, Cold-Applied, 1-part)	Base Ply or Ply	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	
	Cap Ply	DynaPly T1, DynaKap T1, DynaKap FR T1, DynaKap FR T1 CR, DynaKap FR T1 CR G, DynaGlas, DynaGlas FR, DynaGlas FR XT, DynaGlas FR XT CR, DynaGlas FR XT CR G, DynaGlas FR CR, DynaGlas FR CR G, DynaGlas 30 FR, DynaGlas 30 FR CR, DynaGlas 30 FR, DynaGlas 30 FR CR XT, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaLastic 250, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, DynaMax FR CR G	
BP-CA2 (Base and Ply sheets, Cold-Applied, 2-part)	Base Ply or Ply	GlasBase Plus, PermaPly 28	
SBS-CA2 (SBS, Cold-Applied, 2-part)	Base Ply or Ply	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	
	Cap Ply	DynaPly T1, DynaKap T1, DynaKap FR T1, DynaKap FR T1 CR, DynaKap FR T1 CR G, DynaGlas, DynaGlas FR, DynaGlas FR XT, DynaGlas FR XT CR, DynaGlas FR XT CR G, DynaGlas FR CR, DynaGlas FR CR G, DynaGlas 30 FR, DynaGlas 30 FR CR, DynaGlas 30 FR, DynaGlas 30 FR CR XT, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaLastic 250, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, DynaMax FR CR G	
	Note:	SBS-CA2 applications shall not be 'mixed' with SBS-AA applications	

MEMBRANE / ADHESIVE COMBINATIONS			
REFERENCE	LAYER	MATERIAL	APPLICATION
BP-CA3 (Base and Ply sheets, Cold-Applied, 1-part)	Base Ply or Ply	GlasBase Plus, PermaPly 28, GlasPly IV, GlasPly Premier	JM Premium Cold App at 1.5 to 2.0 gal/square
SBS-CA3 (SBS, Cold-Applied, 1-part)	Base Ply or Ply	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	
	Cap Ply	DynaPly T1, DynaKap T1, DynaKap FR T1, DynaKap FR T1 CR, DynaKap FR T1 CR G, DynaGlas, DynaGlas FR, DynaGlas FR XT, DynaGlas FR XT CR, DynaGlas FR XT CR G, DynaGlas FR CR, DynaGlas FR CR G, DynaGlas 30 FR, DynaGlas 30 FR CR, DynaGlas 30 FR, DynaGlas 30 FR CR XT, DynaLastic 180 S, DynaLastic 250 S, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaLastic 250, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, DynaMax FR CR G	
SBS-TA (SBS, Torch-Applied)	Base Ply or Ply	DynaBase HW, DynaWeld Base, DynaWeld 180 S	Torch-Applied
	Cap Ply	DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180, DynaWeld Cap 180 CR, DynaWeld Cap 180 FR, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR CR G, DynaWeld Cap 250, DynaWeld Cap 250 CR, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaClad, DynaClad Copper	
SBS-SA (SBS, self-adhering)	Base Ply or Ply	DynaGrip Base SD/SA, DynaGrip Base SA/SA, JMCleanBond SBS Base Sheet	Self-Adhering
	Cap Ply	JMCleanBond SBS Cap Sheet	

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 PER TABLE 3A:					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	APPLICATION		
C-VB-1.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	Hot asphalt	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-180.0
C-VB-2.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	Hot asphalt	JM One-Step Foamable Adhesive (OSFA), 12-inch o.c.	-180.0
C-VB-3.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	Hot asphalt	JM One-Step Foamable Adhesive (OSFA), 12-inch o.c.	-180.0
C-VB-4.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S	Torch-applied	JM One-Step Foamable Adhesive (OSFA), 12-inch o.c.	-180.0
C-VB-5.	JM SA Primer Low VOC	JM Vapor Barrier SA	Self-adhering	JM Two-Part Urethane Insulation Adhesive (UIA-TWO-PART), 12-inch o.c.	-277.5
C-VB-6.	JM SA Primer Low VOC	JM Vapor Barrier SA	Self-adhering	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-277.5
C-VB-7.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	Hot asphalt	JM Two-Part Urethane Insulation Adhesive (UIA-TWO-PART), 12-inch o.c.	-277.5
C-VB-8.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S	Torch-applied	JM Two-Part Urethane Insulation Adhesive (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	Hot asphalt	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-277.5
C-VB-10.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180	Torch-applied	JM Roofing System Urethane Adhesive (RSUA), 12-inch o.c.	-292.5

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		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-1	Min. 15/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	RSUA or OSFA	(Optional) Additional layers base insulation	RSUA or OSFA	SBS-CA1 or DynaGrip SD/SA or JM BaseGrip SD/SA	(Optional) SBS-TA	SBS-TA	-45.0*

TABLE 1B: 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)	Base Ply	Ply	Cap Ply	
W-2	Min. 15/32-inch plywood at max. 24-inch spans	PermaPly 28, DynaBase, GlasBase Plus or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in three, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
W-3	Min. 15/32-inch plywood at max. 24-inch spans	Two plies of PermaPly 28, DynaBase, GlasBase Plus or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5
W-4	Min. 19/32-inch plywood at max. 24-inch spans	GlasPly Premier, PermaPly 28 or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0

TABLE 1C: 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)	Base Ply	Ply	Cap Ply	
W-5	Min. 19/32-inch plywood at max. 24-inch spans	GlasPly Premier, PermaPly 28 or Ventsulation	Note 2	8-inch o.c. in 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5

TABLE 1D: WOOD 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)	Base Ply	Ply	Cap Ply	
W-6	Min. 19/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or min. 1.5-inch Fesco Foam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
W-7	Min. 19/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
W-8	Min. 19/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch DuraBoard	hot asphalt or MBR-BA full coverage	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0
W-9	Min. 15/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	Note 2 (square plates)	1 per 1.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) SBS-TA	SBS-TA	-67.5

TABLE 1E: 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	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
W-10	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination, loose laid	Min. 0.5-inch Retro-Fit Board, RetroPlus 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, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
W-11	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination, loose laid	Min. 0.5-inch DuraBoard	Note 2	1 per 2.0 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
W-12	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.3 ft ²	SBS-TA	(Optional) BP-CA2, SBS-CA2 or SBS-TA	SBS-CA2, SBS-TA	-60.0

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

System No.	Deck (Note)	Slip Sheet	Insulation Layer(s)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Attach	Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-13	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Loose-laid	DynaBase	High Load Fasteners through 1-inch wide JM Polymer Membrane Batten	9-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-37.5*
W-14	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and JM APB Plates or High Load Plates	18-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-45.0*
W-15	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Prelim Attach	GlasPly Premier, PermaPly 28 or Ventsulation	Note 2	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three, equally spaced, staggered center rows	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5
W-16	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and JM APB Plates or High Load Plates	9-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-60.0
W-17	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load LH through 1-inch wide JM Polymer Membrane Batten	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-82.5

TABLE 1G: 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)
		Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-18	Min. 19/32-inch plywood at max. 24-inch spans	Two plies of PermaPly 28, DynaBase, GlasBase Plus or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5
W-19	Min. 19/32-inch plywood at max. 24-inch spans	GlasPly Premier, PermaPly 28 or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0

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

System No.	Deck (Note 1)	Slip Sheet	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-20	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid	DynaBase	High Load Fasteners through 1-inch wide JM Polymer Membrane Batten	9-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-37.5*
W-21	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and JM APB Plates or High Load Plates	18-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-45.0*
W-22	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers PermaPly 28, loose laid	GlasPly Premier, PermaPly 28 or Ventsulation	Note 2	8-inch o.c. in 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5

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	Ply	Cap Ply	
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-37.5*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-37.5*
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm.	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-37.5*
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch DuraBoard	MBR-BA	BP-CA2, BP-CA3, SBS-CA2 or SBS-CA3	(Optional) BP-CA1, BP-CA2, BP-CA3, SBS-CA1, SBS-CA2 or SBS-CA3	SBS-CA1, SBS-CA2 or SBS-CA-3	-45.0*
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	One or more layers base insulation followed by min. 0.5-inch DuraBoard	MBR-BA	BP-CA2, BP-CA3, SBS-CA2 or SBS-CA3	(Optional) BP-CA1, BP-CA2, BP-CA3, SBS-CA1, SBS-CA2 or SBS-CA3	SBS-CA1, SBS-CA2 or SBS-CA-3	-45.0*
S-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) SBS-TA	SBS-TA	-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	Ply	Cap Ply	
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART or RSUA or OSFA	DynaGrip SD/SA	(Optional) SBS-TA	SBS-TA	-45.0*
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-45.0*
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-45.0*
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm.	Note 2	1 per 4.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-45.0*
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-45.0*
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-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	Ply	Cap Ply	
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ValuTherm.	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-45.0*
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard, min. 0.75-inch Fesco Board (homogeneous) (flat or tapered) or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA,	-52.5
S-17	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	Note 2 (square plates)	1 per 1.5 ft ²	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART, RSUA or OSFA	DynaGrip Base SD/SA, self-adhering	(Optional) SBS-TA	SBS-TA	-52.5
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm.	Note 2	1 per 1.8 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-60.0
S-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, Fesco Foam or DuraFoam	Note 2	1 per 1.8 ft ²	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-60.0
S-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt or UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	(Optional) BP-CA2, BP-AA, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	SBS-CA2, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	-60.0
S-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA, 6-inch o.c.	BP-AA, BP-CA2, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	(Optional) BP-CA2, BP-AA, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	SBS-CA2, SBS-AA, SBS-CA2, SBS-SA or SBS-TA	-60.0
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-67.5
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-67.5
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm.	Note 2	1 per 1.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-67.5

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	Ply	Cap Ply	
S-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, Fesco Foam or DuraFoam	Note 2	1 per 1.5 ft ²	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
S-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-90.0
S-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-90.0
S-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ValuTherm.	Note 2	1 per 1.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART 4-inch o.c.	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-90.0*
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.5 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt or MBR-BA, full coverage	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-90.0
S-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.5 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-90.0
S-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ValuTherm.	Note 2	1 per 1.5 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART 4-inch o.c.	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-90.0*

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	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
S-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch Invinsa Roof Board	UltraFast (steel only) or All Purpose with UltraFast Metal (round) Plates	1 per 2.0 ft ²	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-37.5*
S-35	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. 1.75-inch Invinsa Foam	UltraFast (steel only) or All Purpose with UltraFast Metal (round) Plates	1 per 2.0 ft ²	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-37.5*
S-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	DynaGrip Base SD/SA or SBS-TA	(Optional) SBS-TA	SBS-TA	-37.5*
S-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	BP-AA, BP-CA1, BP-CA2, BP-CA-3 SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA-3 SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-37.5*
S-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UltraFast (steel only) or All Purpose with UltraFast Metal (round) Plates	1 per 2.0 ft ²	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-45.0*
S-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch DuraBoard	Note 2	1 per 2.0 ft ²	BP-CA2, BP-CA3, SBS-CA2 or SBS-CA3	(Optional) BP-CA1, BP-CA2, BP-CA3, SBS-CA1, SBS-CA2 or SBS-CA3	SBS-CA1, SBS-CA2 or SBS-CA-3	-45.0*
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch DuraBoard	Note 2	1 per 2.0 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
S-41	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 Foil Face or min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF or FescoFoam (perlite side down)	Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-45.0*

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	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
S-42	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-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	Note 2	1 per 2.0 ft ²	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-45.0*
S-43	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, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 4.0 ft ²	DynaGrip SD/SA	(Optional) SBS-TA	SBS-TA	-45.0*
S-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch Invinsa Roof Board	UltraFast (steel only) or All Purpose with UltraFast Plastic Plates	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-TA	SBS-TA	-45.0*
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. 1.75-inch Invinsa Foam	UltraFast (steel only) or All Purpose with UltraFast Plastic Plates	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-TA	SBS-TA	-45.0*
S-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	DynaGrip Base SD/SA or SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
S-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 2.7 ft ²	BP-AA, BP-CA1, BP-CA2, BP-CA-3 SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA-3 SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	-45.0*
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	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 or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA,	-52.5
S-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min 2inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF,	UltraFast (steel only)	1 per 1.8 ft ²	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-TA	-52.5
S-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.5 ft ²	DynaGrip SD/SA or JM BaseGrip SD/SA	(Optional) SBS-TA	SBS-TA	-60.0

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	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
S-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.5 ft ²	SBS-AA or SBS-TA	(Optional) SBS-TA	SBS-AA or SBS-TA	-60.0
S-52	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (square plates)	1 per 1.8 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-60.0
S-53	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-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Note 2	1 per 1.3 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-67.5
S-54	Min. 22 ga., type B, 50 ksi steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	Note 2 (square plates)	1 per 1.5 ft ²	DynaGrip SD/SA or JM BaseGrip SD/SA	(Optional) SBS-TA	SBS-TA	-67.5
S-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.5 ft ²	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.3 ft ²	SBS-TA	(Optional) BP-CA2, SBS-CA2 or SBS-TA	SBS-CA2, SBS-TA	-75.0
S-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	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, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
S-58	Min. 22 ga., type B, Grade 33 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	UltraFast (steel only) or All Purpose with UltraFast Metal (round) Plates	1 per 1.5 ft ²	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-75.0
S-59	Min. 22 ga., type B, Grade 33 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	1 per 1.8 ft ²	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
S-60	Min. 22 ga., type B, Grade 33 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	1 per 1.8 ft ²	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-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	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch Invinsa Roof Board	UltraFast (steel only) or All Purpose with UltraFast Plastic Plates	1 per 1.0 ft ²	DynaGrip Base SD/SA	(Optional) SBS-TA	SBS-TA	-82.5
S-62	Min. 22 ga., type B, Grade 33 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 1.5 ft ²	DynaGrip Base SD/SA or SBS-TA	(Optional) SBS-TA	SBS-TA	-82.5*
S-63	Min. 22 ga., type B, Grade 33 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 1.5 ft ²	BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	(Optional) BP-AA, BP-CA1, BP-CA2, BP-CA3, SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3	SBS-AA, SBS-CA1, SBS-CA2, SBS-CA3, SBS-TA	-82.5*
S-64	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. 1.75-inch Invinsa Foam	UltraFast (steel only) or All Purpose with UltraFast Plastic Plates	1 per 1.0 ft ²	DynaGrip Base SD/SA	(Optional) SBS-TA	SBS-TA	-82.5
S-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF,	UltraFast (steel only)	1 per 1.5 ft ²	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-90.0
S-66	Min. 22 ga., type B, Grade 33 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	UltraFast (square plates only)	1 per 1.5 ft ²	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-90.0
S-67	Min. 22 ga., type B, Grade 33 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 1.0 ft ²	DynaGrip Base SD/SA or SBS-TA	(Optional) SBS-TA	SBS-TA	-135.0*
S-68	Min. 22 ga., type B, Grade 33 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 1.0 ft ²	BP-AA, BP-CA2, SBS-AA, SBS-CA2	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2	SBS-AA, SBS-CA2	-135.0*

TABLE 2C: STEEL OR STRUCTURAL CONCRETE 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	Cap Ply	
S-69	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DeckPro	Note 2	18-inch o.c. at the 4-inch lap and 18-inch o.c. in one center row	SBS-SA	SBS-SA or SBS-TA	-45.0*
S-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DynaLastic 180 S	High Load Fasteners and Plates	18-inch o.c. within the 5-inch wide, heat welded lap	(Optional) BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA2, SBS-CA3, or SBS-TA	-45.0*
S-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DynaWeld 180 S	High Load Fasteners and Plates	18-inch o.c. within the 5-inch wide, heat welded lap	(Optional) SBS-TA	SBS-TA	-45.0*
S-72	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1-inch combined thickness, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and JM APB Plates or High Load Plates	18-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-47.5*
S-73	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DynaFast 180 S	High Load Fasteners and JM APB Plates or High Load Plates	6-inch o.c. within every-other min. 4-inch wide, heat-welded side lap; unattached laps heat-welded.	(Optional) SBS-CA2, SBS-AA or SBS-TA	SBS-CA2, SBS-AA or SBS-TA	-52.5
S-74	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DeckPro	Note 2	18-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	SBS-SA	SBS-SA or SBS-TA	-60.0
S-75	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	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	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0
S-76	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	DynaLastic 180 S	High Load Fasteners and Plates	12-inch o.c. within the 5-inch wide, heat welded lap	(Optional) BP-AA, BP-CA2, BP-CA3, SBS-AA, SBS-CA2, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA2, SBS-CA3, or SBS-TA	-67.5
S-77	Min. 22 ga., type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, min. 1-inch combined thickness, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and High Load Plates	12-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-67.5
S-78	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	PermaPly 28	Note 2	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA or SBS-CA2	SBS-AA, SBS-CA2	-82.5

TABLE 2C: STEEL OR STRUCTURAL CONCRETE 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	Cap Ply	
S-79	Min. 22 ga., type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, any combination	Loose-laid	DyaFast 180 S	High Load Fasteners and High Load Plates	12-inch o.c. within the min. 5-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-82.5
S-80	Min. 22 ga., type B, Grade 80 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, min. 1-inch combined thickness, any combination	Prelim. Attached	DynaFast 180 HW or DynaFast 250 HW	High Load LH through 1-inch wide JM Polymer Membrane Batten	6-inch o.c. within min. 4-inch wide, heat-welded laps spaced 71.75-inch o.c.; intermediate 3-inch laps heat-welded	(Optional) SBS-TA	SBS-TA	-90.0
S-81	Min. 22 ga., type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, min. 1-inch combined thickness, any combination	Loose-laid	DynaFast 180 S	High Load Fasteners and JM APB Plates or High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-CA2, SBS-CA3, SBS-AA or SBS-TA	SBS-CA2, SBS-CA3, SBS-AA or SBS-TA	-97.5
S-82	Min. 22 ga., type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, min. 1-inch combined thickness, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and JM APB Plates or High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-105.0
S-83	Min. 22 ga., type B, Grade 80 steel at max. 6 ft spans attached 6-inch o.c.	One or more layers, min. 1-inch combined thickness, any combination	Loose-laid	DynaFast 180 S	High Load Fasteners and High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-CA2, SBS-CA3, SBS-AA or SBS-TA	SBS-CA2, SBS-CA3, SBS-AA or SBS-TA	-105.0
S-84	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. over the 4-inch wide laps	SBS-TA	SBS-TA	-112.5
S-85	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S	High Load Fasteners and Plates	6-inch o.c. over the 4-inch wide laps	SBS-CA2	SBS-CA2	-112.5
S-86	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. within the 5-inch wide, heat welded laps	(Optional) SBS-TA	SBS-TA	-112.5
S-87	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S	High Load Fasteners and Plates	6-inch o.c. within the 5-inch wide, heat welded laps	(Optional) SBS-CA2	SBS-CA2	-112.5
S-88	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch NailBoard	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. within the 5-inch wide, heat welded laps	(Optional) SBS-TA	SBS-TA	-135.0
S-89	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 2-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. within the 5-inch wide, heat welded laps	(Optional) SBS-TA	SBS-TA	-135.0

TABLE 2C: STEEL OR STRUCTURAL CONCRETE 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	Cap Ply	
S-90	Min. 22 ga., type EF, Grade 80 steel at max. 6 ft spans attached 6-inch o.c. with #12-24 x 1.25" DP5, HWH screws with ¾-inch washer	One or more layers, min. 1-inch combined thickness, any combination	Prelim. Attached	DynaFast 180 HW	High Load Fasteners and Plates	6-inch o.c. within the min. 4-inch wide, heat welded laps	(Optional) SBS-TA	SBS-TA	-142.5
S-91	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch NailBoard	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. over the 4-inch wide laps	SBS-TA	SBS-TA	-150.0
S-92	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 2-inch combined thickness, any combination	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	6-inch o.c. over the 4-inch wide laps	SBS-TA	SBS-TA	-150.0
S-93	Min. 22 ga., type EF, Grade 80 steel	One or more layers, min. 1.5-inch combined thickness, any combination	Loose laid	DynaFast 250 HW	High Load Fasteners and High Load Plates	6-inch o.c. within the min. 4-inch wide, heat welded laps	(Optional) SBS-TA	DynaWeld Cap 180 or 180 FR, DynaWeld Cap 250 or 250 FR, torch-applied	-165.0
S-94	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch NailBoard	Prelim. Attached	DynaLastic 180 S or DynaWeld 180 S	High Load Fasteners and Plates	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in three, equally spaced, staggered center rows	SBS-TA	SBS-TA	-195.0

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	Ply	Cap Ply	
C-1.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 1.5-inch InvinSA Foam	hot asphalt	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-155.0
C-2.	Structural concrete	ASTM D41	Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	(Optional) Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-167.5
C-3.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-247.5
C-4.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-277.5
C-5.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-277.5
C-6.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	-277.5
C-7.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	-300.0
C-8.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch RetroPlus Board or DuraBoard	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-300.0
C-9.	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch Retro-Fit Board or min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-305.0
C-10.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-305.0

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	Ply	Cap Ply	
C-11.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	MBR-BA, 12-inch o.c.	Min. 0.75-inch FescoBoard (laminated)	MBR-BA, 12-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA1, BP-CA2, SBS-CA1 or SBS-CA2	SBS-CA1 or SBS-CA2	-52.5
C-12.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	MBR-BA, 12-inch o.c.	Min. 0.5-inch DuraBoard	MBR-BA, 12-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-147.5
C-13.	Structural concrete	None	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	MBR-BA full coverage	(Optional) Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	MBR-BA full coverage	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-187.5
C-14.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	MBR-BA full coverage	Min. 0.75-inch FescoBoard (homogeneous)	MBR-BA full coverage	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-187.5
C-15.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	MBR-BA full coverage	(Optional) Min. 1.5-inch base insulation	MBR-BA full coverage	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-375.0
C-16.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-60.0
C-17.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-82.5
C-18.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-82.5
C-19.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0

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	Ply	Cap Ply	
C-20.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-147.5
C-21.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
C-22.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-155.0
C-23.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-155.0
C-24.	Structural concrete	None	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	UIA-TWO-PART	(Optional) Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-187.5
C-25.	Structural concrete	None	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	(Optional) Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-187.5
C-26.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, SBS-AA, SBS-CA2	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2	SBS-AA, SBS-CA2	-247.5
C-27.	Structural concrete	None	Min. 0.75-inch FescoBoard (homogeneous)	UIA-TWO-PART	(Optional) Min. 0.75-inch FescoBoard (homogeneous)	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-285.0
C-28.	Structural concrete	None	Min. 0.5-inch Retro-Fit Board or DuraBoard	UIA-TWO-PART	(Optional) Min. 0.5-inch Retro-Fit Board or DuraBoard	UIA-TWO-PART	BP-AA, CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-305.0
C-29.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch Invinsa Roof Board	RSUA or OSFA	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-67.5

NEMO ETC, LLC

Certificate of Authorization #32455

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 7TH EDITION (2020) FBC NON-HVHZ EVALUATION

Johns Manville SBS Modified Bitumen Roof Systems; (303) 978-4879

Evaluation Report J8230.03.08-R13 for FL2948-R14

Revision 13: 10/26/2020

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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	Ply	Cap Ply	
C-30.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 1.5-inch Invinsa Foam	RSUA or OSFA	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-67.5
C-31.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch Invinsa Roof Board	RSUA or OSFA	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
C-32.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 1.5-inch Invinsa Foam	RSUA or OSFA	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
C-33.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA	Min. 0.5-inch Retro-Fit Board, RetroPlus Board	RSUA	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA1, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA1, SBS-CA2 or SBS-TA	-105.0
C-34.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
C-35.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) SBS-TA	SBS-TA	-177.5
C-36.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	BP-AA, SBS-AA, SBS-CA2	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2	SBS-AA, SBS-CA2	-247.5
C-37.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch Invinsa Roof Board	CR-20	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-112.5
C-38.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 1.5-inch Invinsa Foam	CR-20	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-112.5

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	Ply	Cap Ply	
C-39.	Structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
C-40.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.5-inch DuraBoard	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
C-41.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-247.5
C-42.	Structural concrete	None	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Min. 1.5-inch base insulation	CR-20	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-360.0

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

System No.	Deck (Note 1)	Primer /Temp Roof	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	Ply	Cap Ply	
C-43.	Structural concrete	ASTM D41 primer followed by SBS-TA (smooth)	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	MBR-BA	(Optional) Base insulation	MBR-BA	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-147.5
C-44.	Structural concrete	ASTM D41 primer followed by SBS-TA (smooth)	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	RSUA or OSFA	None	N/A	SBS-TA	(Optional) SBS-TA	SBS-TA	-225.0
C-45.	Structural concrete	ASTM D41 primer followed by JM BaseGrip SD/SA	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 1.5-inch Invinsa Foam	hot asphalt	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-155.0

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

System No.	Deck (Note 1)	Primer /Temp Roof	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	Ply	Cap Ply	
C-46.	Structural concrete	ASTM D41 primer followed by BP-AA, SBS-AA (smooth) or SBS-TA (smooth)	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	(Optional) Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-167.5
C-47.	Structural concrete	ASTM D41 primer followed by BP-AA, SBS-AA (smooth) or SBS-TA (smooth)	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-167.5
C-48.	Structural concrete	ASTM D41 primer followed by one or two DynaWeld Base	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	-277.5
C-49.	Structural concrete	ASTM D41 primer followed by one or two DynaWeld Base	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	-300.0

TABLE 3C: 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	Ply	Cap Ply	
C-50.	Structural concrete	ASTM D41	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-45.0
C-51.	Structural concrete	ASTM D41	JM BaseGrip SD/SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-155.0
C-52.	Structural concrete	ASTM D41	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-275.0
C-53.	Structural concrete	ASTM D41	SBS-TA	(Optional) BP-CA2, SBS-CA2 or SBS-TA	SBS-CA2 or SBS-TA	-315.0
C-54.	Structural concrete	ASTM D41	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-495.0

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

System No.	Deck (Note 1)	Waterproofing				Overburden	MDP (psf)
		Primer	Base Ply	Ply	Cap Ply		
C-55.	Structural concrete	None	DynaBase applied in H.B. Fuller “Hurricane Force Membrane Adhesive HS”, 1-inch ribbons 6-inch o.c.	(Optional) DynaBase HW, torch applied	DynaWeld Cap FR or DynaWeld Cap 180 FR, torch applied	<u>Wausau Tile</u> : Terra-Paver in Lok-Down atop Terra-Base. Terra-Base is bonded directly to the top surface of the waterproofing system in H.B. Fuller “Hurricane Force Membrane Adhesive HS”. The Terra-Paver is secured with the Lok-Down tabs and screws.	-85.0
C-56.	Structural concrete	ASTM D41	DynaBase HW, torch applied	(Optional) DynaBase HW, torch applied	DynaWeld Cap FR, torch applied	<u>Wausau Tile</u> : Terra-Paver in Lok-Down atop Terra-Base. Terra-Base is bonded directly to the top surface of the waterproofing system in H.B. Fuller “Hurricane Force Membrane Adhesive HS”. The Terra-Paver is secured with the Lok-Down tabs and screws.	-102.5
C-57.	Structural concrete	ASTM D41	DynaBase HW, torch applied	(Optional) DynaBase HW, torch applied	DynaWeld Cap 180 FR, torch applied	<u>Wausau Tile</u> : Terra-Paver in Lok-Down atop Terra-Base. Terra-Base is bonded directly to the top surface of the waterproofing system in H.B. Fuller “Hurricane Force Membrane Adhesive HS”. The Terra-Paver is secured with the Lok-Down tabs and screws.	-110.0

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)	Base Ply	Ply	Cap Ply	
LWC-1	Min. 22 ga, type B, Grade 33 steel	Min. 340 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	RSUA	(Optional) Additional layer(s) base insulation	RSUA	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-75.0
LWC-2	Structural concrete	Min. 340 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	RSUA	(Optional) Additional layer(s) base insulation	RSUA	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-77.5
LWC-3	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	(Optional) Additional layers of base insulation	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-75.0
LWC-4	Min. 22 ga, type B, Grade 33 steel	Min. 310 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	SBS-CA-2	(Optional) SBS-CA2	SBS-CA1, SBS-CA2	-75.0
LWC-5	Min. 22 ga, type B, Grade 33 steel	Min. 310 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-75.0
LWC-6	Structural concrete	Min. 200 psi, minimum 2-inch thick pre-existent cellular LWIC	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	SBS-CA-2	(Optional) SBS-CA2	SBS-CA1, SBS-CA2	-80.0
LWC-7	Structural concrete	Min. 200 psi, minimum 2-inch thick pre-existent cellular LWIC	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-80.0
LWC-8	Structural concrete	Min. 310 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	DynaGrip Base SD/SA	(Optional)SBS-TA	SBS-TA	-90.0

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)	Base Ply	Ply	Cap Ply	
LWC-9	Structural concrete	Min. 200 psi, min 2-inch Elastizell	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
LWC-10	Structural concrete	Min. 310 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI	UIA-TWO-PART	(Optional) Additional layer(s) base insulation	UIA-TWO-PART	SBS-CA-2	(Optional) SBS-CA2	SBS-CA1, SBS-CA2	-130.0
LWC-11	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-147.5
LWC-12	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
LWC-13	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	UIA-TWO-PART	(Optional) Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-187.5
LWC-14	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	(Optional) Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-187.5
LWC-15	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	UIA-TWO-PART	(Optional) Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-225.0
LWC-16	Structural concrete	Min. 200 psi, min 2-inch Elastizell	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-225.0

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)	Base Ply	Ply	Cap Ply	
LWC-17	Structural concrete	Min. 200 psi, min 2-inch Elastizell	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-225.0
LWC-18	Structural concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-75.0
LWC-19	Structural concrete	Min. 200 psi, min 2-inch Elastizell, Celcore or Mearlcrete	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
LWC-20	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Mearlcrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.5-inch DuraBoard	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
LWC-21	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-180.0
LWC-22	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-180.0
LWC-23	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-180.0
LWC-24	Structural concrete	Min. 200 psi, min. 2-inch Celcore	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-222.5

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)	Base Ply	Ply	Cap Ply	
LWC-25	Structural concrete	Min. 200 psi, min. 2-inch Celcore	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-222.5
LWC-26	Structural concrete	Min. 200 psi, min. 2-inch Celcore	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-222.5
LWC-27	Structural concrete	Min. 200 psi, min. 2-inch Mearlcrete	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers of base insulation	CR-20	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0
LWC-28	Structural concrete	Min. 200 psi, min. 2-inch Mearlcrete	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-240.0
LWC-29	Structural concrete	Min. 200 psi, min. 2-inch Mearlcrete	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0

TABLE 4B: 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 (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
LWC-30	Min. 22 ga., type BV steel or structural concrete deck.	Pre-existent Min. 300 psi, minimum 2-inch thick cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 62 lbf per Note 11.</i>	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR 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	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5
LWC-31	Min. 22 ga., type BV steel or structural concrete deck.	Min. 300 psi, minimum 2.25-inch thick Concrecel LWIC	GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-82.5

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
				Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
LWC-32	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 180 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 90 lbf</i>	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Invinso Roof Board	JM UltraLok, min. 1.6-inch embedment	1 per 1.0 ft ²	DynaGrip Base SD/SA	(Optional) SBS-TA	SBS-TA	-45.0

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: 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-33	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>To qualify the LWC, the fastener shall document min. 22 lbf per Note 11.</i>	PermaPly 28 or GlasPly Premier	JM LWC CR 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	SBS-SA	SBS-TA	-30.0
LWC-34	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, minimum 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 CR 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	BP-AA, SBS-AA, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA3 or SBS-TA	-30.0
LWC-35	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 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	JM UltraLok, min. 1.4-inch or JM LWC CR 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	DynaGrip Base SD/SA	SBS-TA	-30.0
LWC-36	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 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, min. 1.4-inch or JM LWC CR 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	SBS-AA, SBS-TA	SBS-AA, SBS-TA	-30.0
LWC-37	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 35 lbf per Note 11.</i>	DynaBase	JM UltraLok, min. 1.4-inch or JM LWC CR 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	SBS-CA2	SBS-CA-1, SBS-CA2	-30.0
LWC-38	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 210 psi, minimum 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	JM UltraLok, 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	DynaGrip Base SD/SA	SBS-TA	-30.0
LWC-39	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 210 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: Note: To qualify the LWC, the fastener shall document min. 55 lbf per Note 11.</i>	PermaPly 28, GlasBase Plus, DynaBase, Ventsulation	JM UltraLok, 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	SBS-AA, SBS-TA	SBS-AA, SBS-TA	-30.0
LWC-40	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 210 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 55 lbf per Note 11.</i>	DynaBase	JM UltraLok, 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	SBS-CA2	SBS-CA2	-30.0
LWC-41	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick Elastizell LWIC.	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-37.5

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: 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-42	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 370 psi, minimum 2-inch thick Elastizell LWIC with Zell-Crete Fibers	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes (1.8-inch) through Trufast Twin Loc Coiled Batten Bar	9-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-37.5
LWC-43	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 62 lbf per Note 11.</i>	PermaPly 28	JM LWC CR Base Sheet Fastener, min. 1.7-inch (Note 11)	9-inch o.c. at the 3-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-37.5
LWC-44	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 62 lbf per Note 11.</i>	DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S or DynaLastic 250 S	JM LWC CR Base Sheet Fastener, min. 1.7-inch (Note 11)	9-inch o.c. at the 3-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-37.5
LWC-45	Min. 22 ga, type B, Grade 33 steel or structural concrete	Deck Treatment: Celcore S-1 broom applied to steel deck in continuous film prior to placement of LWC. LWC: Min. 380 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	GlasBase Plus, Ventsulation, DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S or DynaLastic 250 S	JM LWC CR Base Sheet Fastener, min. 1.7-inch	12-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-45.0
LWC-46	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 310 psi, minimum 2-inch thick Elastizell LWIC with Zell-Crete Fibers	PermaPly 28	JM LWC CR Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-45.0
LWC-47	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 310 psi, minimum 2-inch thick Elastizell LWIC with Zell-Crete Fibers	DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S or DynaLastic 250 S	JM LWC CR Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 6.4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-45.0
LWC-48	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 93 lbf per Note 11.</i>	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR 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	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: 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-49	Min. 22 ga, type B, Grade 33 steel or structural concrete	Deck Treatment: Celcore S-1 broom applied to steel deck in continuous film prior to placement of LWC. LWC: Min. 430 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes (1.8-inch) through Trufast Twin Loc Coiled Batten Bar	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-52.5
LWC-50	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, minimum 2-inch thick Mearlcrete LWIC	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in three, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0
LWC-51	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-60.0
LWC-52	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 250 psi, minimum 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 CR 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	BP-AA, BP-CA2 or SBS-AA, SBS-CA2	SBS-AA, SBS-CA2	-60.0
LWC-53	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 500 psi, minimum 2-inch thick Concrecel LWIC	PermaPly 28 or GlasPly Premier	JM LWC CR Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	SBS-SA	SBS-TA	-60.0
LWC-54	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 500 psi, minimum 2-inch thick Concrecel LWIC	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC CR Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA3 or SBS-TA	-60.0
LWC-55	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	PermaPly 28 or GlasPly Premier	JM LWC CR Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	SBS-SA	SBS-TA	-60.0
LWC-56	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC CR Base Sheet Fastener	6-inch o.c. at the 4-inch lap and 6-inch o.c. at three, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA3 or SBS-TA	-60.0
LWC-57	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 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 or GlasPly Premier	JM LWC CR 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	SBS-SA	SBS-TA	-60.0

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: 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-58	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 2-inch thick pre-existent cellular LWC. <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 CR 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	BP-AA, SBS-AA, SBS-CA3 or SBS-TA	SBS-AA, SBS-CA3 or SBS-TA	-60.0
LWC-59	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-60.0
LWC-60	Min. 22 ga, type B, Grade 33 steel or structural concrete	Deck Treatment: Celcore S-1 broom applied to steel deck in continuous film prior to placement of LWC. LWC: Min. 430 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S or DynaLastic 250 S	JM LWC CR Base Sheet Fastener, min. 1.7-inch	12-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-60.0
LWC-61	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 2-inch thick pre-existent cellular LWC. <i>Note: To qualify the LWC, the fastener shall document min. 77 lbf per Note 11.</i>	PermaPly 28 or GlasPly Premier	JM LWC CR 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	SBS-SA	SBS-TA	-67.5
LWC-62	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, minimum 2-inch thick pre-existent cellular LWC. <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 CR 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	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-67.5
LWC-63	Min. 22 ga, type B, Grade 33 steel or structural concrete	Deck Treatment: Celcore S-1 broom applied to steel deck in continuous film prior to placement of LWC. LWC: Min. 340 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	PermaPly 28	JM LWC CR Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-67.5
LWC-64	Min. 22 ga, type B, Grade 33 steel or structural concrete	Deck Treatment: Celcore S-1 broom applied to steel deck in continuous film prior to placement of LWC. LWC: Min. 340 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S or DynaLastic 250 S	JM LWC CR Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 6.4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TA	SBS-TA	-67.5

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: 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-65	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 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	JM UltraLok (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
LWC-66	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2-inch thick Celcore LWIC	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
LWC-67	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	TruFast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through TruFast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) SBS-TA	SBS-TA	-75.0
LWC-68	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 430 psi, minimum 2-inch thick Elastizell LWIC with Zell-Crete Fibers	PermaPly 28, GlasBase Plus, DynaBase or Ventsulation	JM LWC CR 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	SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0
LWC-69	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 430 psi, minimum 2-inch thick Elastizell LWIC with Zell-Crete Fibers	DynaBase	JM LWC CR 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	SBS-CA2	SBS-CA-1, SBS-CA2	-75.0
LWC-70	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2.25-inch thick Concrecel LWIC	GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-82.5
LWC-71	Structural concrete	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	TruFast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through TruFast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) SBS-TA	SBS-TA	-90.0
LWC-72	Structural concrete	Min. 300 psi, minimum 2-inch thick Concrecel LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 98 lbf per Note 11.</i>	PermaPly 28, Ventsulation, DynaBase or GlasPly Premier	JM LWC CR 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	BP-AA or SBS-AA	SBS-AA	-120.0
LWC-73	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2.25-inch thick Concrecel LWIC	GlasPly Premier	JM LWC CR Base Sheet Fastener	50% strip mop plus: Fasteners 4-inch o.c. at the 4-inch lap and 4-inch o.c. in four equally spaced, staggered center rows	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-146.0

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

System No.	Deck (Note 1)	LWC (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-74	Min. 22 ga, type B, 50 ksi steel	Min. 430 psi, minimum 2-inch thick cellular LWIC.	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and High Load Plates (engage steel deck)	12-inch o.c. within the min. 5-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-60.0
LWC-75	Min. 22 ga, type B, 50 ksi steel	Min. 430 psi, minimum 2-inch thick cellular LWIC.	DynaFast 180 S	High Load Fasteners and High Load Plates (engage steel deck)	12-inch o.c. within the min. 5-inch wide, heat-welded side laps.	(Optional) SBS-AA	SBS-AA	-60.0
LWC-76	Min. 22 ga, type B, 60 ksi steel	Min. 180 psi, minimum 2-inch thick cellular LWIC.	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and High Load Plates (engage steel deck)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-97.5
LWC-77	Min. 22 ga, type B, 60 ksi steel	Min. 180 psi, minimum 2-inch thick cellular LWIC.	DynaFast 180 S	High Load Fasteners and High Load Plates (engage steel deck)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-AA	SBS-AA	-97.5

TABLE 4F: 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)	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
LWC-78	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 300 psi, minimum 2.25-inch thick Concrecel LWIC	GlasPly Premier, 50% strip mop	(Optional) BP-AA, BP-CA2, SBS-AA or SBS-CA2	SBS-AA, SBS-CA2 or SBS-TA	-67.5
LWC-79	Min. 22 ga, type B, Grade 33 steel, structural concrete or Tectum I	Min. 498 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore Curing Compound	DynaBase H.B. Fuller Millennium Hurricane Force Membrane Adhesive or Hurricane Force Membrane Adhesive HS, 1-inch ribbons spaced 12-inch o.c.	(Optional) SBS-AA, SBS-TA, SBS-CA2, SBS-CA3	SBS-AA, SBS-TA, SBS-CA2, SBS-CA3	-78.3
LWC-80	Structural concrete	Min. 498 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore Curing Compound	DynaBase H.B. Fuller Millennium Hurricane Force Membrane Adhesive or Hurricane Force Membrane Adhesive HS, 1-inch ribbons spaced 12-inch o.c.	(Optional) SBS-AA, SBS-TA, SBS-CA2, SBS-CA3	SBS-AA, SBS-TA, SBS-CA2, SBS-CA3	-193.0

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

System No.	Deck (Note 1)	LWC (Note 14)		Roof Cover (Note 15)			Overburden	MDP (psf)
		Type	Treatment	Base Ply	Ply	Cap Ply		
LWC-81	Structural concrete	Min. 498 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore Curing Compound	DynaBase applied in H.B. Fuller "Hurricane Force Membrane Adhesive HS", 1-inch ribbons 6-inch o.c.	(Optional) DynaBase HW, torch applied	DynaWeld Cap FR or DynaWeld Cap 180 FR, torch applied	<u>Wausau Tile</u> : Terra-Paver in Lok-Down atop Terra-Base. Terra-Base is bonded directly to the top surface of the waterproofing system in H.B. Fuller "Hurricane Force Membrane Adhesive HS". The Terra-Paver is secured with the Lok-Down tabs and screws.	-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)	Base Ply	Ply	Cap Ply	
CWF-1.	Existing Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
CWF-2.	Existing Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
CWF-3.	Existing Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA1, BP-CA2, BP-CA3, SBS-CA1, SBS-CA2 or SBS-CA3	SBS-CA1, SBS-CA2 or SBS-CA3	-45.0*
CWF-4.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	(Optional) Additional layers base insulation	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-45.0*
CWF-5.	Existing Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board or min. 1.5-inch Invinsa Foam	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-45.0*
CWF-6.	Existing Tectum Plank or Tectum LS Plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
CWF-7.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA,, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA , BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-52.5
CWF-8.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA1, BP-CA2, BP-CA3, SBS-CA1, SBS-CA2 or SBS-CA3	SBS-CA1, SBS-CA2 or SBS-CA3	-52.5
CWF-9.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers base insulation	CR-20	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-52.5
CWF-10.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.5-inch DuraBoard	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-52.5

TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – 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			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-11.	Existing Tectum Plank or Tectum LS Plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm 25 PSI AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
CWF-12.	Existing Tectum Plank or Tectum LS Plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm 25 PSI AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-82.5

TABLE 5C: 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)	Base Ply	Ply	Cap Ply	
CWF-13.	Existing Tectum Plank or Tectum LS Plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm 25 PSI AGF or CGF	JM Polymer Auger Fasteners & Plates	1 per 3 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*

**TABLE 5D: 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	Base Ply	Ply	Cap Ply	
CWF-14.	Existing Tectum Plank or Tectum LS Plank	One or more layers, any combination, loose laid	Min. 1.5-inch Fesco Foam or DuraFoam	JM Polymer Auger Fasteners & Plates or JM UltraLok	1 per 2.7 ft ²	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
CWF-15.	Existing Tectum Plank or Tectum LS Plank	One or more layers, any combination, loose laid	Min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fasteners & Plates or JM UltraLok	1 per 2.0 ft ²	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*

**TABLE 5E: CEMENTITIOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: 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-16.	Existing Tectum Plank or Tectum LS Plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fasteners & Plates	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-45.0*
CWF-17.	Existing Tectum Plank or Tectum LS Plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-45.0*
CWF-18.	Existing Tectum Plank or Tectum LS Plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA or SBS-CA2	SBS-AA, SBS-CA2	-82.5
CWF-19.	Existing 3-inch Tectum I Plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) SBS-TA	SBS-TA	-90.0

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)	Base Ply	Ply	Cap Ply	
G-1.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	(Optional) Additional layers base insulation	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-75.0
G-2.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch Invinso Roof Board or min. 1.5-inch Invinso Foam	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-82.5
G-3.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
G-4.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-112.5
G-5.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-112.5
G-6.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-112.5
G-7.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	SBS-TA	(Optional) SBS-TA	SBS-TA	-112.5
G-8.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	(Optional) Additional layers base insulation	CR-20	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-75.0
G-9.	Existing sound gypsum or gypsum plank	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA1, BP-CA3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
G-10.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.5-inch DuraBoard	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
G-11.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-257.5

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)	Base Ply	Ply	Cap Ply	
G-12.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-257.5

TABLE 6B: GYPSUM DECKS – 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			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-13.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (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	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
G-14.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (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	One or more layers min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
G-15.	Existing sound gypsum or gypsum plank	GlasBase Plus, GlasPly IV, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (Field W/D ≥ 105 lbf)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	One or more layers min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*

TABLE 6B: GYPSUM DECKS – 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			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-16.	Existing sound gypsum or gypsum plank	PermaPly 28 or Ventsulation	JM LWC CR Base Sheet Fastener (1.2) (Field W/D ≥ 105 lbf)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	One or more layers min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
G-17.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (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	Min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, 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	(Optional) 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-75.0
G-18.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (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	One or more layers min. 1-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-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)	Base Ply	Ply	Cap Ply	
G-19.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	JM Polymer Auger Fasteners & Plates (Field W/D $\geq$ 360 lbf)	1 per 4.0 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	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
G-20.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	JM Polymer Auger Fasteners & Plates (Field W/D $\geq$ 180 lbf)	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt or UIA-TWO-PART	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-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 (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
G-21.	Existing sound gypsum or gypsum plank	One or more layers, any combination, loose laid	Min. 1.5-inch Fesco Foam or DuraFoam	JM Polymer Auger Fasteners & Plates or JM UltraLok (Field W/D $\geq$ 240 lbf)	1 per 2.7 ft ²	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*
G-22.	Existing sound gypsum or gypsum plank	One or more layers, any combination, loose laid	Min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fasteners & Plates or JM UltraLok (Field W/D $\geq$ 180 lbf)	1 per 2.0 ft ²	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-45.0*

**TABLE 6E: GYPSUM DECKS – REROOF (Tear-Off) or RECOVER
SYSTEM TYPE E-2: 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-23.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fasteners & Plates (Field W/D $\geq$ 159 lbf)	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-45.0*
G-24.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (Field W/D $\geq$ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-45.0*
G-25.	Existing sound gypsum or gypsum plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through Trufast Batten Bar or JM Metal Batten TL (Field W/D $\geq$ 177 lbf)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) SBS-TA	SBS-TA	-60.0
G-26.	Existing sound gypsum or gypsum plank	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok (Field W/D $\geq$ 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA, BP-CA2, SBS-AA, SBS-CA2	SBS-AA, SBS-CA2	-75.0
G-27.	Existing sound gypsum or gypsum plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tube (1.8-inch) through Trufast Batten Bar or JM Metal Batten TL (Field W/D $\geq$ 133 lbf)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) SBS-TA	SBS-TA	-90.0

TABLE 7: RECOVER APPLICATIONS
SYSTEM TYPE A: 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	Ply	Cap Ply	
R-1	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous) (homogeneous) or min 0.5-inch DuraBoard	hot asphalt	BP-AA, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-120.0
R-2	Existing asphaltic roof	Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	(Optional) Min. 0.75-inch FescoBoard or DuraBoard (homogeneous)	hot asphalt	BP-AA, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-167.5
R-3	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-247.5
R-4	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-247.5
R-5	Existing asphaltic roof	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-277.5
R-6	Existing asphaltic roof	(Optional) ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-277.5
R-7	Existing asphaltic roof	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch RetroPlus Board or DuraBoard	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-300.0
R-8	Existing asphaltic roof	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 0.5-inch Retro-Fit Board or min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-305.0
R-9	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ValuTherm AGF, ValuTherm 25 PSI AGF	hot asphalt	Min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA, BP-CA2, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-305.0
R-10	Existing asphaltic roof	Min. 0.25-inch Invinsa Roof Board	MBR-BA full coverage	None	N/A	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-112.5
R-11	Existing asphaltic roof	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch Invinsa Roof Board	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-82.5

TABLE 7: RECOVER APPLICATIONS
SYSTEM TYPE A: 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	Ply	Cap Ply	
R-12	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 1.5-inch Invinsa Foam	UIA-TWO-PART	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-82.5
R-13	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA1, BP-3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0
R-14	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-120.0
R-15	Existing asphaltic roof	Min. 0.75-inch FescoBoard (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	UIA-TWO-PART	(Optional) Min. 0.75-inch FescoBoard (homogeneous), min. 0.5-inch Retro-Fit Board, RetroPlus Board or DuraBoard	UIA-TWO-PART	BP-AA, SBS-AA or SBS-CA2	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-120.0
R-16	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-120.0
R-17	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-120.0
R-18	Existing asphaltic roof	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch Invinsa Roof Board	RSUA or OSFA	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-67.5
R-19	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 1.5-inch Invinsa Foam	RSUA or OSFA	SBS-SA	(Optional) SBS-SA or SBS-TA	SBS-SA or SBS-TA	-67.5
R-20	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) BP-CA1, BP-3, SBS-CA1 or SBS-CA3	SBS-CA1 or SBS-CA3	-105.0

TABLE 7: RECOVER APPLICATIONS
SYSTEM TYPE A: 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	Ply	Cap Ply	
R-21	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	BP-AA, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2, SBS-TA	-180.0
R-22	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	RSUA or OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA or OSFA	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-157.5
R-23	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, SBS-AA, SBS-CA2 or SBS-TA	(Optional) BP-AA, BP-CA2 SBS-AA, SBS-CA2 or SBS-TA	SBS-AA, SBS-CA2 or SBS-TA	-262.5
R-24	Existing asphaltic roof	(Optional) Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-TA	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-262.5