



EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

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Oxford, CT 06478

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EVALUATION REPORT

Firestone Building Products Company, LLC.

250 West 96th Street

Indianapolis, IN 46260

(800) 443-4272

Evaluation Report F47310.12.13-1-R4

FL16722-R3

Date of Issuance: 03/05/2014

Revision 4: 09/30/2017

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 **6th Edition (2017) Florida Building Code, High Velocity Hurricane Zone (HVHZ)** sections noted herein.

DESCRIPTION: Firestone SBS and APP Modified Bitumen Roof Systems

LABELING: Labeling shall be in accordance with the requirements 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 documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Engineer Evaluated, FBC (HVHZ)" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

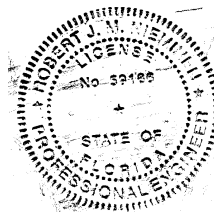
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 6, plus a 72-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 09/30/2017. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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 Trinity|ERD 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: Firestone SBS and APP Modified Bitumen Roof Systems, as produced by Firestone Building Products Company, LLC, have demonstrated compliance with the following sections of the 5th Edition (2014) Florida Building Code, High Velocity Hurricane Zone (HVHZ) through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1523.6.2	Testing Requirements	TAS 110	2000
TAS 110	System Performance	TAS 114	2011
TAS 110	Physical Properties	ASTM D2178	2004
TAS 110	Physical Properties	ASTM D4601	2012
TAS 110	Physical Properties	ASTM D4897	2009
TAS 110	Physical Properties	ASTM D6163	2008
TAS 110	Physical Properties	ASTM D6164	2011
1507.11.2	Physical Properties	ASTM D6222	2011
1507.11.2	Physical Properties	ASTM D6223	2011
1507.11.2	Physical Properties	ASTM D6509	2009

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>	<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ACRC (TST4671)	TAS 114	03-001	03/06/2003	FM (TST1867)	FM 4470/4474	797-06748-267	09/13/2011
ACRC (TST4671)	TAS 114	03-002	03/06/2003	FM (TST1867)	FM 4470/4474	3036639	11/22/2011
ACRC (TST4671)	TAS 114	03-007	05/01/2003	FM (TST1867)	FM 4470/4474	797-07092-267	01/30/2012
ACRC (TST4671)	TAS 114	02-009	02/10/2003	FM (TST1867)	FM 4470/4474	3044429	04/12/2012
ACRC (TST4671)	TAS 114	07-074	12/05/2007	FM (TST1867)	FM 4470/4474	3042665	05/04/2012
ACRC (TST4671)	TAS 114	08-015	02/26/2008	FM (TST1867)	FM 4470/4474	3044812	05/04/2012
ACRC (TST4671)	TAS 114	08-021	04/11/2008	FM (TST1867)	FM 4470/4474	3044047	05/17/2012
ACRC (TST4671)	TAS 114	08-056	10/24/2008	FM (TST1867)	FM 4470/4474	3046333	08/10/2012
CTL (TST1577)	TAS 114	108R	10/16/2008	FM (TST1867)	FM 4470/4474	3041939	08/14/2012
ERD (TST 6049)	Physical Properties	F10380.09.08-2	09/12/2008	FM (TST1867)	FM 4470/4474	797-07680-267	09/14/2012
ERD (TST 6049)	Physical Properties	F31960.05.10-1	05/19/2010	FM (TST1867)	FM 4470/4474	797-07673-267	09/24/2012
ERD (TST 6049)	Physical Properties	F31960.05.10-2	05/19/2010	FM (TST1867)	FM 4470/4474	797-07749-267	10/04/2012
ERD (TST 6049)	Physical Properties	F31960.08.10-1	08/25/2010	FM (TST1867)	FM 4470/4474	3046870	03/22/2013
ERD (TST 6049)	Physical Properties	F35400.05.11	05/31/2011	FM (TST1867)	FM 4470/4474	3047398	08/15/2013
ERD (TST 6049)	Physical Properties	F36650.08.11-1-R2	05/08/2012	FM (TST1867)	FM 4470/4474	3050535	05/18/2015
ERD (TST 6049)	Physical Properties	F41070.08.12	08/24/2012	FM (TST1867)	FM 4470/4474	RR203649	12/30/2015
ERD (TST 6049)	Physical Properties	F36650.09.12	09/04/2012	FM (TST1867)	FM 4470/4474	3055590	01/14/2016
ERD (TST 6049)	Physical Properties	U41790.05.12-1-R1	01/21/2013	FM (TST1867)	FM 4470/4474	3055890	02/22/2016
ERD (TST 6049)	Physical Properties	U41790.05.12-2-R2	02/22/2013	FM (TST1867)	FM 4470/4474	3055491	12/05/2016
ERD (TST 6049)	Physical Properties	P10500.10.08-1-R2	03/22/2013	IRT (TST7408)	TAS 114	02-010, 011	01/28/2002
ERD (TST 6049)	Physical Properties	F31960.08.10-2-R1	03/25/2013	IRT (TST7408)	TAS 114	02-011	02/07/2002
ERD (TST 6049)	TAS 114	F45610SC	10/01/2013	IRT (TST7408)	TAS 114	02-026	07/26/2002
ERD (TST 6049)	TAS 114	F40000.08.12	08/08/2012	PRI (TST5878)	Physical Properties	FBP-009-02-01	08/31/2004
FM (TST1867)	FM 4470	2Y3A3.AM	11/28/1994	PRI (TST5878)	Physical Properties	FBP-023-02-01	09/01/2004
FM (TST1867)	FM 4470	0Z5A3.AM	03/08/1995	PRI (TST5878)	Physical Properties	FBP-010-02-01	09/02/2004
FM (TST1867)	FM 4470	1D5A8.AM	09/09/1998	PRI (TST5878)	Physical Properties	FBP-011-02-01	09/02/2004
FM (TST1867)	FM 4470	3003597	07/14/1999	PRI (TST5878)	Physical Properties	FBP-013-02-01	09/02/2004
FM (TST1867)	FM 4470	3004786	05/16/2000	PRI (TST5878)	Physical Properties	FBP-014-02-01	09/02/2004
FM (TST1867)	FM 4470	3005030	08/08/2000	PRI (TST5878)	Physical Properties	FBP-015-02-01	09/02/2004
FM (TST1867)	FM 4470	3011494	08/22/2001	PRI (TST5878)	Physical Properties	FBP-016-02-01	09/02/2004
FM (TST1867)	FM 4470	3007328	07/12/2002	PRI (TST5878)	Physical Properties	FBP-018-02-01	09/07/2004
FM (TST1867)	FM 4470	3014031	07/22/2002	PRI (TST5878)	Physical Properties	FBP-008-02-01	09/10/2004
FM (TST1867)	FM 4470	3012321	07/29/2002	PRI (TST5878)	Physical Properties	FBP-017-02-01	09/13/2004
FM (TST1867)	FM 4470	3009613	08/26/2002	PRI (TST5878)	Physical Properties	FBP-007-02-01	09/14/2004
FM (TST1867)	FM 4470	3017121	06/12/2003	PRI (TST5878)	Physical Properties	FBP-020-02-01	09/14/2004
FM (TST1867)	FM 4470	3014692	08/05/2003	PRI (TST5878)	Physical Properties	FBP-019-02-01	09/14/2004
FM (TST1867)	FM 4470	3018579	10/09/2003	PRI (TST5878)	Physical Properties	FBP-056-02-01	12/12/2008
FM (TST1867)	FM 4470	3009473	04/30/2004	PRI (TST5878)	Physical Properties	FBP-057-02-01	12/12/2008
FM (TST1867)	FM 4470	3008978	08/13/2004	PRI (TST5878)	Physical Properties	FBP-058-02-01	12/12/2008
FM (TST1867)	FM 4470	3012095	06/30/2004	PRI (TST5878)	Physical Properties	FBP-038-02-01	12/27/2010
FM (TST1867)	FM 4470/4474	3020395	11/29/2004	PRI (TST5878)	Physical Properties	FBP-038-02-02	12/28/2010

Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
FM (TST1867)	FM 4470/4474	3014537	11/29/2004	PRI (TST5878)	Physical Properties	FBP-038-02-03	12/29/2010
FM (TST1867)	FM 4470/4474	3022492	01/17/2005	PRI (TST5878)	Physical Properties	FBP-038-02-04	12/29/2010
FM (TST1867)	FM 4470/4474	3024594	05/19/2006	PRI (TST5878)	Physical Properties	FBP-042-02-01	07/26/2011
FM (TST1867)	FM 4470/4474	3026520	12/14/2006	PRI (TST5878)	Physical Properties	FBP-043-02-03	07/26/2011
FM (TST1867)	FM 4470/4474	3022502	01/29/2007	PRI (TST5878)	Physical Properties	FBP-043-02-04	07/26/2011
FM (TST1867)	FM 4470/4474	3030107	05/18/2007	PRI (TST5878)	Physical Properties	FBP-047-02-02	07/27/2011
FM (TST1867)	FM 4470/4474	3025185	05/22/2007	PRI (TST5878)	Physical Properties	FBP-043-02-01	08/02/2011
FM (TST1867)	FM 4470/4474	3030227	06/18/2007	PRI (TST5878)	Physical Properties	FBP-043-02-02	08/02/2011
FM (TST1867)	FM 4470/4474	3029993	09/21/2007	PRI (TST5878)	TAS 114	FBP-042-02-03	08/29/2011
FM (TST1867)	FM 4470/4474	3028093	10/26/2007	PRI (TST5878)	Physical Properties	FBP-053-02-01	03/23/2012
FM (TST1867)	FM 4470/4474	3032850	06/05/2008	PRI (TST5878)	TAS 114	FBP-059-02-01	05/10/2012
FM (TST1867)	FM 4470/4474	3033218	08/12/2008	PRI (TST5878)	TAS 114	FBP-071-02-01	05/10/2012
FM (TST1867)	FM 4470/4474	3035017	04/15/2009	PRI (TST5878)	TAS 114	FBP-073-02-01	07/05/2012
FM (TST1867)	FM 4470/4474	797-4792.267	08/03/2009	PRI (TST5878)	Physical Properties	FBP-064-02-01	08/02/2012
FM (TST1867)	FM 4470/4474	797-04854.267	08/31/2009	PRI (TST5878)	TAS 114	FBP-067-02-01	08/02/2012
FM (TST1867)	FM 4470/4474	797-04929.267	09/25/2009	PRI (TST5878)	TAS 114	FBP-054-02-03	08/02/2012
FM (TST1867)	FM 4470/4474	3023288	12/24/2009	PRI (TST5878)	TAS 114	FBP-071-02-01-R1	02/07/2013
FM (TST1867)	FM 4470/4474	3015815	12/24/2009	PRI (TST5878)	TAS 114	FBP-101-02-01	03/21/2013
FM (TST1867)	FM 4470/4474	797-05158.267	12/24/2009	PRI (TST5878)	Physical Properties	FBP-087-02-01	03/22/2013
FM (TST1867)	FM 4470/4474	797-05160.267	12/24/2009	PRI (TST5878)	Physical Properties	FBP-088-02-01	03/22/2013
FM (TST1867)	FM 4470/4474	3035560	01/11/2010	PRI (TST5878)	Physical Properties	FBP-091-02-01	03/25/2013
FM (TST1867)	FM 4470/4474	FM Letter	03/09/2010	PRI (TST5878)	Physical Properties	FBP-116-02-01	04/03/2013
FM (TST1867)	FM 4470/4474	797-05499.267	04/28/2010	PRI (TST5878)	TAS 114	FBP-113-02-01	04/17/2013
FM (TST1867)	FM 4470/4474	797-05500.267	05/05/2010	PRI (TST5878)	TAS 114	FBP-106-02-01	04/19/2013
FM (TST1867)	FM 4470/4474	797-05501.267	05/05/2010	PRI (TST5878)	TAS 114	FBP-109-02-01	04/19/2013
FM (TST1867)	FM 4470/4474	797-05522.267	05/06/2010	PRI (TST5878)	TAS 114	FBP-114-02-01	04/19/2013
FM (TST1867)	FM 4470/4474	797-05605.267	06/07/2010	PRI (TST5878)	TAS 114	FBP-104-02-01	06/19/2013
FM (TST1867)	FM 4470/4474	797-05627.267	06/14/2010	PRI (TST5878)	TAS 114	FBP-118-02-01	07/24/2013
FM (TST1867)	FM 4470/4474	3033921	08/04/2010	PRI (TST5878)	TAS 114	FBP-123-02-01	07/26/2013
FM (TST1867)	FM 4470/4474	797-05769.267	08/04/2010	PRI (TST5878)	TAS 114	FBP-130-02-01	08/23/2013
FM (TST1867)	FM 4470/4474	3041939, Data	03/02/2011	PRI (TST5878)	TAS 114	FBP-132-02-01	08/23/2013
FM (TST1867)	FM 4470/4474	3041534	03/09/2011	PRI (TST5878)	TAS 114	FBP-133-02-02	08/24/2013
FM (TST1867)	FM 4470/4474	3040795	03/24/2011	PRI (TST5878)	TAS 114	FBP-142-02-01	08/28/2013
FM (TST1867)	FM 4470/4474	797-08473.267	05/05/2011	PRI (TST5878)	TAS 114	FBP-133-02-01	09/03/2013
FM (TST1867)	FM 4470/4474	3042392	06/08/2011	PRI (TST5878)	TAS 114	FBP-059-02-01	09/30/2013
FM (TST1867)	FM 4470/4474	3041949	06/10/2011	PRI (TST5878)	TAS 114	FBP-142-02-02	10/01/2013
FM (TST1867)	FM 4470/4474	3038191	08/04/2011	PRI (TST5878)	Physical Properties	FBP-127-02-01	11/20/2013
FM (TST1867)	FM 4470/4474	3041939, Data	08/18/2011	PRI (TST5878)	Physical Properties	FBP-126-02-01	12/03/2013
FM (TST1867)	FM 4470/4474	797-06607-267	08/30/2011	PRI (TST5878)	Physical Properties	FBP-138-02-01	09/12/2014
FM (TST1867)	FM 4470/4474	3040306	09/07/2011	UL, LLC (QUA9625)	Quality Control	Service Confirmation	Exp. 09/11/2020

4. PRODUCT DESCRIPTION:

This Evaluation Report covers **Firestone Modified Bitumen Roof Systems** installed in accordance with **Firestone Building Products Company, LLC** published installation instructions and the Limitations / Conditions of Use herein. The following products make up the subject systems.

TABLE 1: ROLL-GOODS FOR FIRESTONE MODIFIED BITUMEN ROOF SYSTEMS				
Type	Product	Specification		
		Reference	Grade	Type
Base Ply / Ply	Ply IV	ASTM D2178	N/A	IV
	Ply VI	ASTM D2178	N/A	VI
	MB Base	ASTM D4601	N/A	II
	Channel Venting Base	ASTM D4897	N/A	II
	Venting Base Sheet	ASTM D4897	N/A	II
	BASEGARD SA	ASTM D1970	N/A	N/A
SBS Membranes	SBS Base	ASTM D6163	S	I
	SBS Base-P	ASTM D6163	S	I
	SBS Premium Base	ASTM D6163	S	II
	SBS Glass Torch Base	ASTM D6163	S	I
	SBS Glass Torch Base 1.5	ASTM D6163	S	I
	SBS Glass	ASTM D6163	G	I

TABLE 1 (CONTINUED): ROLL-GOODS FOR FIRESTONE MODIFIED BITUMEN ROOF SYSTEMS

Type	Product	Specification		
		Reference	Grade	Type
SBS Membranes (continued)	SBS Glass UltraWhite	ASTM D6163	G	I
	SBS Glass FR	ASTM D6163	G	I
	SBS Glass FR UltraWhite	ASTM D6163	G	I
	SBS Glass FR Torch	ASTM D6163	G	I
	SBS Glass FR Torch UltraWhite	ASTM D6163	G	I
	SBS PolyBase	ASTM D6164	S	I
	SBS Smooth	ASTM D6164	S	I
	SBS Premium Poly Base	ASTM D6164	S	II
	SBS Cap	ASTM D6164	G	I
	SBS Cap UltraWhite	ASTM D6164	G	I
	SBS FR Cap	ASTM D6164	G	I
	SBS FR Cap UltraWhite	ASTM D6164	G	I
	SBS Premium	ASTM D6164	G	II
	SBS Premium UltraWhite	ASTM D6164	G	II
	SBS Premium FR	ASTM D6164	G	II
	SBS Premium FR UltraWhite	ASTM D6164	G	II
	SBS Premium Torch	ASTM D6164	G	II
	SBS Premium Torch UltraWhite	ASTM D6164	G	II
	SBS Premium FR Torch	ASTM D6164	G	II
	SBS Premium FR Torch UltraWhite	ASTM D6164	G	II
	SBS Poly Torch Base	ASTM D6164	S	I
	SBS Torch	ASTM D6164	G	I
	SBS Torch UltraWhite	ASTM D6164	G	I
	SBS FR Torch	ASTM D6164	G	I
	SBS FR Torch UltraWhite	ASTM D6164	G	I
APP Membranes	APP 80 Glass Base	ASTM D6509	N/A	N/A
	APP 80 Glass Base-P	ASTM D6509	N/A	N/A
	APP Premium Base	ASTM D6509	N/A	N/A
	APP 160	ASTM D6222	S	I
	APP 160-P	ASTM D6222	S	I
	APP 160 COOL	ASTM D6222	S	I
	APP 170	ASTM D6222	S	I
	APP 170 COOL	ASTM D6222	S	I
	APP 180	ASTM D6222	G	I
	APP 180-P	ASTM D6222	G	I
	APP 180 UltraWhite	ASTM D6222	G	I
	APP 180 COOL	ASTM D6222	G	I
	APP 180 FR	ASTM D6222	G	I
	APP 180 FR UltraWhite	ASTM D6222	G	I
	APP 180 FR COOL	ASTM D6222	G	I
	APP 180 FR COOL UltraWhite	ASTM D6222	G	I
	APP Premium FR	ASTM D6223	G	II
	APP Premium FR UltraWhite	ASTM D6223	G	II

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD 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 Fire classification is not part of this Evaluation Report; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 5.3 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance with **FBC 2603.4** unless the exceptions stated in **FBC 2603.4.1** and **2603.6** apply.
- 5.4 The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to 'as-tested' conditions under **Testing Application Standard TAS 114, Appendix J**. Roof decks shall be in accordance with **FBC (HVHZ)** requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.5 Fastener spacing for mechanical attachment of anchor/base sheet or membrane is based on a minimum fastener resistance value in conjunction with the maximum design pressure (MDP) listed for a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing – prepared, signed and sealed by a qualified design professional – may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from **Testing Application Standard TAS 105** and calculations in compliance with **Roofing Application Standard RAS 117** or **Roofing Application Standard RAS 137**.
- 5.5.1 If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with **Testing Application Standard TAS 105** and **Roofing Application Standard RAS 117** and/or **Roofing Application Standard RAS 137**. Calculations shall be prepared, signed and sealed by a qualified design professional.
- 5.6 For systems where specific lightweight insulating concrete is referenced, consult the current HVHZ product approval documentation for specific deck construction and limitations. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be for minimum 300 psi cellular material.
- 5.7 For recover installations, the existing roof shall be examined in accordance with **FBC 1521**.
- 5.8 Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased, as calculated in compliance with **Roofing Application Standard RAS 117** and/or **Roofing Application Standard RAS 137** by a qualified design professional. ****This extrapolation is not permitted for systems marked with an asterisk*.***
- 5.9 All attachment and sizing of perimeter nailers, metal profile and/or flashing termination designs shall conform to **Roofing Application Standard RAS 111** and applicable wind load requirements.
- 5.10 For assemblies marked with an asterisk*, the maximum design pressure (MDP) limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters and corners). Neither rational analysis, nor extrapolation is permitted for enhanced attachment at enhanced pressure zones (i.e., perimeters, corners and extended corners).
- 5.11 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 **Testing Application Standard TAS 124**.
- 5.12 All products listed herein shall have quality assurance audit in accordance with the **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

- 6.1 **Firestone SBS and APP Modified Bitumen Roof Systems** shall be installed in accordance with **Firestone Building Products Company, LLC** published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 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 **Testing Application Standard TAS 114** has already been applied). Refer to **FBC 1620** and **Roofing Application Standard RAS 128** for determination of design wind loads.

7. QUALITY ASSURANCE ENTITY:

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

- THE 72-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description	Page
1A	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	6
1B	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	6
1C	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	7
1D	Wood	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	7
1E-1	Wood	New or Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	8-9
1E-2	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	10
2A-1	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	11-15
2A-2	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	16-17
2B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	18-24
2C	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	25-26
3A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	27-36
3B	Structural Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	37
4A	LWIC	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	38-49
4B	LWIC	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	50
4C-1	LWIC	New or Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	51-54
4C-2	LWIC	New or Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	55
5A	CWF	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	56
5B	CWF	New, Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	56
5C	CWF	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	57
5D	CWF	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	57
5E	CWF	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	57
5F	CWF	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	58
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	59-60
6B	Gypsum	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	61
6C	Gypsum	Reroof (Tear-Off)	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	61
6D	Gypsum	Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	62
6E	Gypsum	Reroof (Tear-Off)	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	62
6F	Gypsum	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	63
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	64-72

The following notes apply to the systems outlined herein:

- The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to 'as-tested' conditions under Testing Application Standard TAS 114, Appendix J. Roof decks shall be in accordance with FBC (HVHZ) requirements to the satisfaction of the Authority Having Jurisdiction.
- Unless otherwise noted, insulation / base sheet fasteners shall be the following with the noted minimum fastener engagement for each deck type. For deck-types not listed, refer to the specific system listings herein:
 - Wood: Firestone Insulation Fastening Plates with Firestone All-Purpose Fasteners; Firestone Pre-Assembled Fastener and Plate (consisting of 0.196-inch thread diameter fastener with 3-inch diameter metal plate). Minimum 0.75-inch wood penetration.
 - Steel: Firestone Insulation Fastening Plates with Firestone All-Purpose Fasteners or Firestone Heavy-Duty Fasteners; Firestone Pre-Assembled Fastener and Plate (consisting of 0.196-inch thread diameter fastener with 3-inch diameter metal plate); Firestone Pre-Assembled Heavy-Duty Fastener and Plate (consisting of 0.275-inch thread diameter fastener with 3-inch diameter metal plate); AP AccuTrac; HD AccuTrac. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.

- Structural Concrete: Firestone Insulation Fastening Plates with Firestone Heavy-Duty Fasteners or Firestone Concrete Drive Fasteners; Firestone Pre-Assembled Heavy-Duty Fastener and Plate (consisting of 0.275-inch thread diameter fastener with 3-inch diameter metal plate); HD AccuTrac. Minimum 1.25-inch embedment into pilot hole in accordance with published installation instructions.
- 3. Unless otherwise noted, the insulation may be any polyisocyanurate, polystyrene, fiberboard, perlite and/or gypsum-based insulation board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC (HVHZ) 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4. If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or Roofing Application Standard RAS 137. Calculations shall be prepared, signed and sealed by a qualified design professional.
- 5. Preliminary insulation attachment for System Type D = Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.
- 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 coverage, 20-40 lbs/square.
 - Firestone I.S.O. FIX II: Continuous 0.75-inch ribbons, 8-inch o.c.
 - Firestone I.S.O. Spray R: Continuous 0.5 to 0.75-inch ribbons, 12-inch o.c.
 - Firestone I.S.O. Spray S: Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
 - Firestone I.S.O. Stick: Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
 - Firestone I.S.O. Twin Pack: Continuous 0.5 to 0.75-inch ribbons, 12-inch o.c.
 - Firestone LiquiGard: Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
 - Firestone Multi-Purpose MB Cold Adhesive: Full coverage, 1.5 to 2 gal./square.
 - ICP Adhesives CR-20: Continuous 2.5-3.5-inch wide 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 from layer-to-layer.
 - 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.

➤ Hot asphalt:	MDP	-120.0 psf	(Min. 0.5-inch thick)
➤ Firestone I.S.O. FIX II:	MDP	-112.5 psf	(Min. 0.5-inch thick)
➤ Firestone I.S.O. Stick:	MDP	-187.5 psf	(Min. 0.5-inch thick)
➤ Firestone I.S.O. Twin Pack or I.S.O. Spray R:	MDP	-157.5 psf	(Min. 0.5-inch thick)
➤ ICP Adhesives CR-20:	MDP	-117.5 psf	(Min. 1.0-inch thick)
- 8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
- 9. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased, as calculated in compliance with Roofing Application Standard RAS 117 and/or Roofing Application Standard RAS 137 by a qualified design professional. ****This extrapolation is not permitted for systems marked with an asterisk*.***
- 10. For assemblies marked with an asterisk*, the maximum design pressure (MDP) limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters and corners). Neither rational analysis, nor extrapolation is permitted for enhanced attachment at enhanced pressure zones (i.e., perimeters, corners and extended corners).
- 11. Fastener spacing for mechanical attachment of anchor/base sheet or membrane is based on a minimum fastener resistance value in conjunction with the maximum design pressure (MDP) listed for a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing – prepared, signed and sealed by a qualified design professional – may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standard TAS 105 and calculations in compliance with Roofing Application Standard RAS 117 or Roofing Application Standard RAS 137.
- 12. 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 Testing Application Standard TAS 124.
- 13. For recover installations, the existing roof shall be examined in accordance with FBC 1521. For Recover Applications using System Type D, the insulation is optional.

14. Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC NOA or HVHZ Product Approval for specific deck construction and limitations. For systems where specific LWC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.
15. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

FIRESTONE ROOF COVERS			
Reference	Layer	Material	Application
BP-CA (Base Ply and Ply, Cold-Applied)	Base Ply	MB Base	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2.0 gal/square
	Ply	Ply VI	
SBS-CA (SBS, Cold-Applied)	Base Ply	SBS Base, SBS Base-P, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	
	Ply	SBS Base, SBS Base-P, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	
	Cap Ply	SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
APP-CA (APP, Cold-Applied)	Base Ply	APP 160 COOL, APP 170 COOL, APP Premium Base	
	Cap Ply	APP 160 COOL, APP 170 COOL, APP 180 COOL, APP 180 FR COOL, APP 180 FR COOL UltraWhite, APP Premium FR, APP Premium FR UltraWhite	
BP-CA2 (Base Ply and Ply, Cold-Applied)	Base Ply	MB Base	Firestone LiquiGuard Membrane Adhesive at 1.5 - 2.0 gal/square
	Ply	Ply VI	
SBS-CA2 (SBS, Cold-Applied)	Base Ply	SBS Base, SBS Base-P, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	
	Ply	SBS Base, SBS Base-P, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	
	Cap Ply	SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
BP-AA (Base Ply and Ply, Asphalt-Applied)	Base Ply	MB Base, Ply IV, Ply VI	Hot asphalt at 20-40 lbs/square
	Ply	Ply IV, Ply VI	
SBS-AA (SBS, Asphalt-Applied)	Base Ply	SBS Base, SBS Base-P SBS PolyBase, SBS Premium Base, SBS Premium Poly Base, SBS Smooth	
	Ply	SBS Base, SBS Base-P SBS PolyBase, SBS Premium Base, SBS Premium Poly Base, SBS Smooth	
	Cap Ply	SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-TA (SBS, Torch-Applied)	Base Ply	SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Smooth	Torch-Applied
	Ply	SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Smooth	
	Cap Ply	SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Smooth, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite	
APP-TA (APP, Torch-Applied)	Base Ply	APP 80 Glass Base, APP 80 Glass Base-P, APP 160, APP 160-P, APP 170, APP Premium Base	Torch-Applied
	Ply	APP 160, APP 160-P, APP 170, APP Premium Base	
	Cap Ply	APP 160, APP 160-P, APP 170, APP 180, APP 180-P, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite, APP Premium FR, APP Premium FR UltraWhite	
SBS-SA (SBS, self-adhering)	Base Ply	BASEGARD SA	Self-Adhering

16. The following cap sheets may be installed over sand-top-surfaced SBS-AA or SBS-TA base or ply membranes within asphalt-applied and torch-applied systems noted herein with the noted Maximum Design Pressure (MDP) limitations. In no case shall the substitution and the associated limitation be used to 'increase' the MDP listing in the table; rather if the particular system is less than or equal to the noted cold-cap limitation, then the substitution is permitted.

ALTERNATE CAP PLY INSTALLATION ALLOWANCES				
Deck Type	System Type	Listed Cap Ply	Alternate Cold-Cap Ply	MDP (psf)
Wood, Steel, Structural Concrete, LWC, CWF, Gypsum or Recover	A-2, B-1, B-2, C, D or E	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR or SBS Premium FR UltraWhite	-127.5
Structural Concrete, LWC (over structural concrete), Gypsum or Recover (over structural concrete)	A-1, A-3 or F	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR or SBS Glass FR UltraWhite	-180.0
Structural Concrete, LWC (over structural concrete), Gypsum or Recover (over structural concrete)	A-1, A-3 or F	SBS-AA, SBS-TA or APP-TA	APP-CA: APP 160 COOL, APP 170 COOL, APP 180 COOL, APP 180 FR COOL or APP 180 FR COOL UltraWhite	-225.0

17. Vapor barrier options for use over **structural concrete deck** followed by adhesive-applied insulation carry the following Maximum Design Pressure (MDP) limitations. Use the **lesser** of the MDP listings below vs. those in **Table 3A**.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
Option #	Primer	Vapor Barrier		Insulation Adhesive (Note 6)	MDP (psf)
		Type	Application		
VB-1.	ASTM D41	Base Ply: BP-CA, SBS-CA, APP-CA (Note 15)	Multi-Purpose MB Cold Adhesive	Multi-Purpose MB Cold Adhesive	-67.5*
VB-2.	None	MB Base	LiquiGard	I.S.O. Spray R, 12-inch o.c.	-240.0*
VB-3.	None	MB Base	LiquiGard	I.S.O. Twin Pack, 12-inch o.c.	-240.0*
VB-4.	None	Base Ply: SBS-CA2 (Note 15)	LiquiGard	I.S.O. Spray R, 12-inch o.c.	-240.0*
VB-5.	None	Base Ply: SBS-CA2 (Note 15)	LiquiGard	I.S.O. Twin Pack, 12-inch o.c.	-240.0*
VB-6.	ASTM D41	MB Base	I.S.O. Twin Pack, 4-inch o.c.	I.S.O. Twin Pack, 12-inch o.c.	-232.5*
VB-7.	ASTM D41	Asphaltic (Note 18)	Hot asphalt	Hot asphalt	-120.0*
VB-8.	ASTM D41	Asphaltic (Note 18)	Hot asphalt	I.S.O. Spray S, 6-inch o.c.	-255.0*
VB-9.	ASTM D41	Asphaltic (Note 18)	Hot asphalt	I.S.O. Spray R or I.S.O. Twin Pack, 12-inch o.c.	-495.0*
VB-10.	ASTM D41	Base Ply: SBS-TA	Torch-applied	I.S.O. Spray R or I.S.O. Twin Pack, 12-inch o.c.	-495.0*
VB-11.	V-Force SB Primer	V-Force Vapor Barrier	Self-adhering	I.S.O. Spray R, 12-inch o.c.	-255.0*
VB-12.	V-Force SB Primer	V-Force Vapor Barrier	Self-adhering	I.S.O. Stick, 12-inch o.c.	-262.5*
VB-13.	V-Force SB Primer	V-Force Vapor Barrier	Self-adhering	I.S.O. Twin Pack, 12-inch o.c.	-255.0*

18. "Asphaltic" vapor barrier / temp roof referenced herein refers to 1 or 2 plies Ply IV or Ply VI or 1 ply MB Base, SBS Base, SBS PolyBase or SBS Premium Base applied in a full mopping of hot asphalt.
19. An optional air/vapor barrier of V-Force Vapor Barrier Membrane, self-adhered, may be installed atop steel roof decks (Tables 2A through 2C) prior to installation of any steel deck roof assembly noted herein.
20. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and Roofing Application Standard RAS 128 for determination of design wind loads.

21. Unless otherwise noted, insulation or coverboard attachment patterns for Type B and Type C systems are as outlined below:

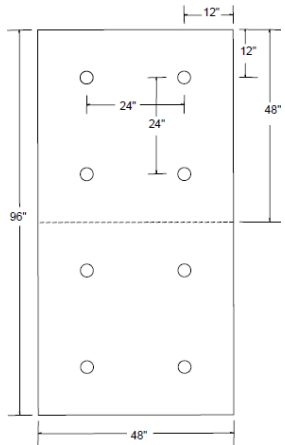
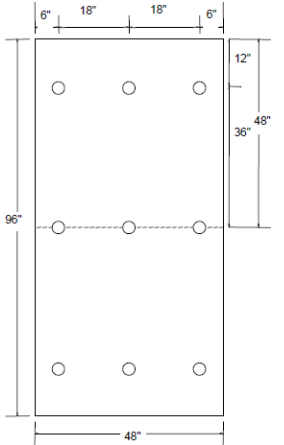
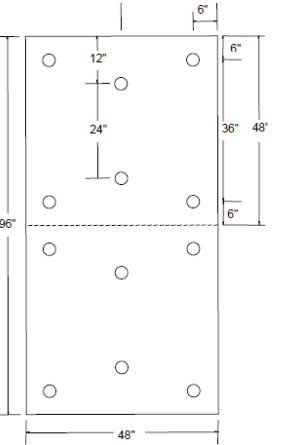
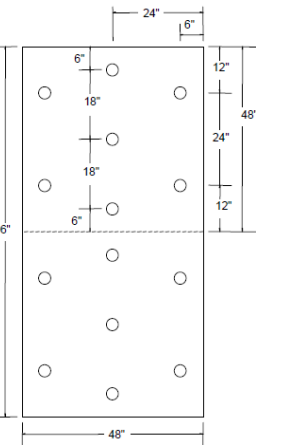
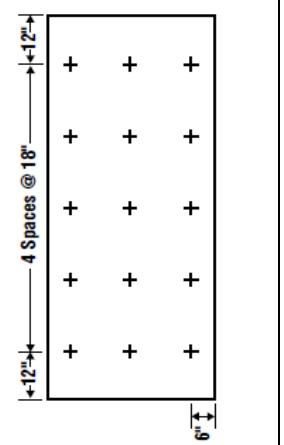
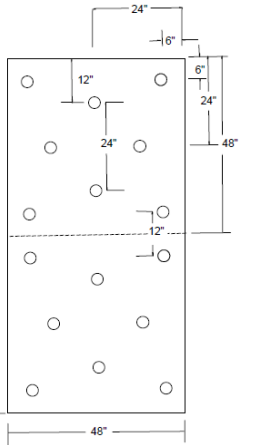
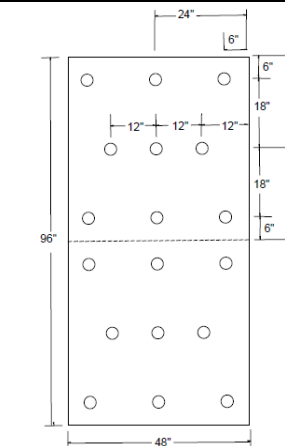
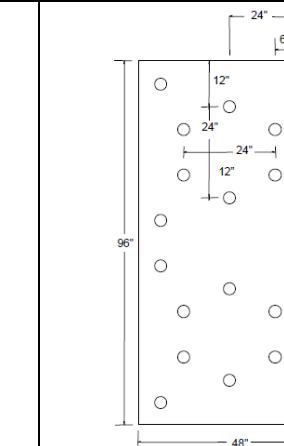
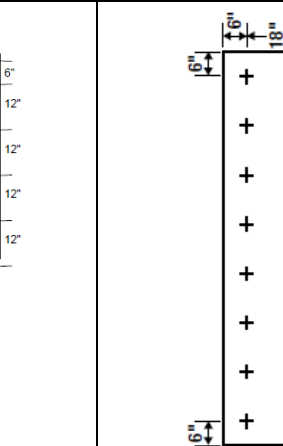
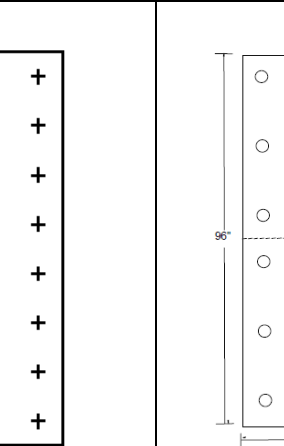
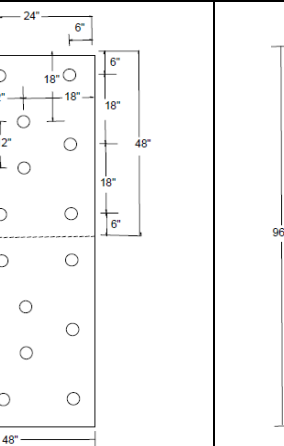
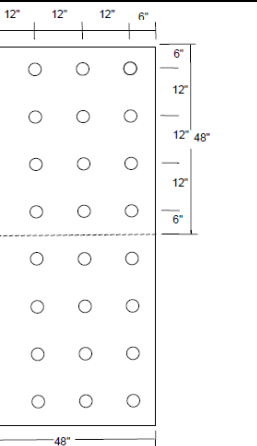
INSULATION ATTACHMENT PATTERNS					
 <p>1 per 4 ft²</p>	 <p>1 per 3.6 ft²</p>	 <p>1 per 2.7 ft²</p>	 <p>1 per 2.3 ft²</p>	 <p>1 per 2.1 ft²</p>	 <p>1 per 2 ft²</p>
 <p>1 per 1.8 ft²</p>	 <p>1 per 1.6 ft²</p>	 <p>1 per 1.5 ft²</p>	 <p>1 per 1.3 ft²</p>	 <p>1 per 1 ft²</p>	 <p>1 per 1 ft²</p>

TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
W-1	Min. 19/32-inch plywood or wood plank	MB Base, Channel Venting Base, SBS Base, SBS Base-P	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	One or more layers min. 1.4-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-2	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	MB Base, Channel Venting Base, SBS Base, SBS Base-P	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	One or more layers min. 1.4-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
W-3	Min. 19/32-inch plywood or wood plank	Min. 1.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2.3 ft ²	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-4	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft ²	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5

TABLE 1C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasteners	Attach (Note 21)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
W-5	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.1 ft ²	SBS-CA	(Optional) BP-CA, SBS-CA, BP-CA2, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-50.0*
ASPHALT / TORCH APPLIED BASE PLY:									
W-6	Min. 19/32-inch plywood or wood plank	One or more layers, any combination, loose laid	Min. 0.5-inch FiberTop	Note 2	1 per 2 ft ²	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-7	Min. 23/32-inch plywood or wood plank	One or more layers, any combination, loose laid	Min. 0.5-inch Dens-Deck, Dens-Deck Prime	Note 2	1 per 3.6 ft ²	SBS-AA	(Optional) SBS-AA	SBS-AA	-45.0*
SELF-ADHERING BASE PLY:									
W-8	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.1 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-50.0*
W-9	Min. 19/32-inch plywood or wood plank; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer or 0.5-inch SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft.	Note 2	1 per 1.78 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0

TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
W-10	Min. 19/32-inch plywood or wood plank	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-11	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Fasteners	Attach	Base Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:							
W-12	Min. 19/32-inch plywood; 24" spans; blocked 48" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	SBS Base	FBC HVHZ 1519.5.1 nails & tin caps	6-inch o.c. at the 3-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-CA2, SBS-CA2	SBS-CA2, SBS-AA, SBS-TA	-97.5
ASPHALT OR TORCH APPLIED BASE PLY:							
W-13	Min. 19/32-inch plywood or wood plank	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-14	Min. 15/32-inch exterior grade plywood	MB Base, Channel Venting Base, SBS Base, SBS PolyBase	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-45.0*
W-15	Min. 15/32-inch exterior grade plywood	MB Base, Channel Venting Base	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-45.0*
W-16	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
W-17	Min. 19/32-inch plywood; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-52.5
W-18	Min. 15/32-inch exterior grade plywood; 24" spans; 8d common nails 6" o.c.	MB Base, Channel Venting Base, SBS Base, SBS PolyBase	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 12-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-52.5
W-19	Min. 15/32-inch exterior grade plywood; 24" spans; 8d common nails 6" o.c.	MB Base, Channel Venting Base	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 12-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-52.5
W-20	Min. 15/32-inch exterior grade plywood; 24" spans; #10 screws 6" o.c.	MB Base, Channel Venting Base, SBS Base, SBS PolyBase	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-90.0
W-21	Min. 15/32-inch exterior grade plywood; 24" spans; #10 screws 6" o.c.	MB Base, Channel Venting Base	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-90.0

TABLE 1E-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Fasteners	Attach	Base Ply	Cap Ply	
W-22	Min. 19/32-inch plywood; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	SBS Base	FBC HVHZ 1519.5.1 nails & tin caps	6-inch o.c. at the 3-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA, SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-97.5
W-23	Min. 15/32-inch exterior grade plywood; 24" spans; #10 screws 4" o.c.	MB Base, Channel Venting Base, SBS Base, SBS PolyBase	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-105.0
W-24	Min. 15/32-inch exterior grade plywood; 24" spans; #10 screws 4" o.c.	MB Base, Channel Venting Base	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-105.0
SELF-ADHERING BASE PLY:							
W-25	Min. 19/32-inch plywood or wood plank; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	SBS-SA	SBS-AA, SBS-TA	-52.5

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Fasteners	Attach	Base Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:							
W-26	Min. 19/32-inch plywood or wood plank; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 3.5-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-CA2, SBS-CA2	SBS-CA2, SBS-AA, SBS-TA	-60.0
ASPHALT OR TORCH APPLIED BASE PLY:							
W-27	Min. 19/32-inch plywood or wood plank; 24" spans; 8d ring shank nails 6" o.c.	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
W-28	Min. 19/32-inch plywood or wood plank; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 3.5-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-60.0
W-29	Min. 19/32-inch plywood; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base, Channel Venting Base	Note 2	12-inch o.c. in the 2-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA or SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-75.0
SELF-ADHERING BASE PLY:							
W-30	Min. 19/32-inch plywood or wood plank; 24" spans; blocked 78" o.c.; 0.113" x 2 3/8" ring shank nails 6" o.c.	MB Base	Note 2	12-inch o.c. in the 2-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	SBS-SA	SBS-AA, SBS-TA	-75.0

TABLE 2A-1: 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 (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	APP-CA	None	APP-CA	-45.0*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation followed by Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	APP-CA	None	APP-CA	-45.0*
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	APP-CA	None	APP-CA	-45.0*
S-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation followed by Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	APP-CA	None	APP-CA	-45.0*

TABLE 2A-1: 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 (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 4 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	APP-CA	None	APP-CA	-45.0*
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	APP-CA	None	APP-CA	-45.0*
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 4 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*

TABLE 2A-1: 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 (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.5-inch ISO GARD HD, GenFlex HD ISO	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2.7 ft ²	Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board or min. 0.5-inch ISO GARD HD, GenFlex HD ISO	LiquiGard, I.S.O. Spray R; I.S.O. Twin Pack, I.S.O. FIX II, I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-19	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.6 ft ²	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack, I.S.O. FIX II or I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-75.0
ASPHALT AND/OR TORCH APPLIED BASE PLY:										
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2.3 ft ²	Min. 0.5-inch Fiber Top	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	Min. 0.5-inch Fiber Top	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-22	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft ²	Min. 0.5-inch Fiber Top	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0

TABLE 2A-1: 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 (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
S-23	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1 1/4" HWH screw 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.6 ft ²	Min. 0.5-inch Fiber Top	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-75.0
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 4 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch Fiber Top	I.S.O. Spray R; I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; Min. 0.5-inch FiberTop C or S	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 4 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-28	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1 1/4" HWH screw 6" o.c.	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.6 ft ²	Optional min. 0.5-inch base insulation; Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, 6-inch o.c.	BP-AA, SBS-AA, SBS-TA	(Optional) One or more SBS-CA2, BP-AA, SBS-AA, SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-67.5
S-29	Min. 22 ga., type B, Grade 33 steel; 6' spans; #12 HWH Tek 5 screw 6" o.c.	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	Min. 0.5-inch Dens Deck Prime	I.S.O. Spray R	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-TA	-82.5
S-30	Min. 22 ga., type B, Grade 80 steel; 6' spans; #12 HWH Tek 5 screw 6" o.c.	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	Min. 0.5-inch Dens Deck Prime	I.S.O. Spray R	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-TA	-97.5

TABLE 2A-1: 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 (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
SELF-ADHERING BASE PLY:										
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 4 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Optional min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-35	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.6 ft ²	Optional min. 0.5-inch base insulation; Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, 6-inch o.c.	SBS-SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-36	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II, I.S.O. Spray S or I.S.O. Spray R; I.S.O. Twin Pack, 4-inch o.c.	SBS-SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-37	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II, I.S.O. Spray S or I.S.O. Twin Pack, 4-inch o.c.	SBS-SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-105.0

TABLE 2A-2: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)

SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)		Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:											
S-38	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-39	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	APP-CA	None	APP-CA	-45.0*
S-40	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.50-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-41	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.50-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	APP-CA	None	APP-CA	-45.0*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:											
S-42	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-43	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.50-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
ASPHALT AND/OR TORCH APPLIED BASE PLY:											

TABLE 2A-2: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)

SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasten	Attach (Note 21)		Type	Attach	Base Ply	Ply	Cap Ply	
S-44	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.50-inch FiberTop C or S	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-45	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
SELF-ADHERING BASE PLY:											
S-46	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-47	Min. 22 ga., Type B, Grade 33 steel or Min. 2,500 psi structural concrete	Min. 0.25-inch Dens Deck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	Note 2	1 per 4 ft ²	V-Force Vapor Barrier Membrane	One or more layers Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation; optional Min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation; Min. 0.50-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
S-48	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 ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0
S-49	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 ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	APP-CA	None	APP-CA	-45.0*
S-50	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-51	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	APP-CA	None	APP-CA	-45.0*
S-52	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-53	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2 ft²	APP-CA	None	APP-CA	-45.0*
S-54	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 Fiber Top or min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	Note 2	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
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. 0.5-inch Fiber Top or min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	Note 2	1 per 2 ft²	APP_CA	None	APP-CA	-45.0*
S-56	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.7 ft²	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*
S-57	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.7 ft²	APP-CA	None	APP-CA	-45.0*
S-58	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO	Note 2	1 per 4 ft²	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0*

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-59	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO	Note 2	1 per 4 ft ²	APP-CA	None	APP-CA	-45.0*
S-60	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5
S-61	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	APP-CA	None	APP-CA	-52.5
S-62	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5
S-63	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	APP-CA	None	APP-CA	-52.5
S-64	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5
S-65	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	APP-CA	None	APP-CA	-52.5
S-66	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	SBS-CA	None	SBS-CA	-60.0
S-67	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 2.7 ft ²	SBS-CA	None	SBS-CA	-60.0
S-68	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA, GenFlex Coated Glass Facer or min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.6 ft ²	SBS-CA	None	SBS-CA	-67.5

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-69	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	SBS-CA	None	SBS-CA	-75.0
S-70	Min. 22 ga., type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.5 ft ²	SBS-CA	None	SBS-CA	-90.0
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:									
S-71	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2.7 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-72	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-73	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.7 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0*
S-74	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete; 6' spans; 5/8" puddle weld or # Traxx/5 screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.78 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-60.0
S-75	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 2.7 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-60.0
S-76	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA, GenFlex Coated Glass Facer or min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.6 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-67.5
S-77	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-75.0
S-78	Min. 22 ga., Type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.6 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-82.5

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-79	Min. 22 ga., Type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1.3 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-90.0
S-80	Min. 22 ga., Type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-97.5
S-81	Min. 22 ga., Type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-112.5
S-82	Min. 22 ga., Type B, Grade 80 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-135.0
ASPHALT AND/OR TORCH APPLIED BASE PLY:									
S-83	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5inch Fiber Top	Note 2	1 per 2 ft ²	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-84	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. 0.25-inch Dens-Deck Prime	Note 2	1 per 4 ft ²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-85	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. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	Note 2	1 per 2 ft ²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-86	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime, long joints staggered 4 ft	Note 2	1 per 1.3 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-87	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-88	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-89	Min. 22 ga., type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Dens-Deck Prime	Note 2	1 per 1.3 ft ²	SBS-TA	None	SBS-TA	-97.5
S-90	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Dens-Deck Prime	Note 2	1 per 1.3 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-112.5
S-91	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Dens-Deck Prime	Note 2	1 per 1 ft ²	SBS-TA	None	SBS-TA	-127.5
S-92	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0
S-93	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Dens-Deck Prime	Note 2	1 per 1 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-157.5
S-94	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-157.5
S-95	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-172.5
SELF-ADHERING BASE PLY:									
S-96	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 Dens-Deck Prime	Note 2	1 per 2 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-97	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 Dens-Deck Prime	Note 2	1 per 2 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-98	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-99	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-100	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 ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-TA	SBS-TA	-45.0*
S-101	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.2-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*
S-102	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*
S-103	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-104	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-105	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
S-106	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*
S-107	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*
S-108	Min. 22 ga., Type B, Grade 33 or Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO	Note 2	1 per 4 ft ²	SBS-SA	(Optional) SBS-AA	SBS-AA	-45.0*

TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasten	Attach (Note 21)	Base Ply	Ply	Cap Ply	
S-109	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer, min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO or min. 0.5-inch Dens Deck Prime or SECURROCK Gypsum-Fiber Roof board	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-45.0
S-110	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation, RESISTA, GenFlex Coated Glass Facer or ISOGARD HD Composite, GenFlex HD Composite ISO	Note 2	1 per 1.8 ft ²	SBS-SA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
S-111	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
S-112	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA, GenFlex Coated Glass Facer or min. 0.5-inch Dens Deck Prime or SECURROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.6 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-113	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5
S-114	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, GenFlex HD Composite ISO, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0
S-115	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 1.3 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0
S-116	Min. 22 ga. Type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1¼" HWH screw 6" o.c.	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch SECURROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Note 2	1 per 1.8 ft ²	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0

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

System No.	Deck (Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
S-117	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	SBS Base, SBS Base-P, SBS Premium	Note 2, but with Dekfast Hex only	18-inch o.c. at the 3-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) BP-CA or SBS-CA	SBS-CA	-45.0*
S-118	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	MB Base, Channel Venting Base	Note 2	12-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) BP-CA or SBS-CA	SBS-CA or APP-CA	-45.0*
S-119	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone All Purpose Fastener with MB 2" Barbed Metal Lap Plates	12-inch o.c. within the 4-inch torch side lap	None	SBS-CA or APP-CA	-45.0*
S-120	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c.	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or ISO 300	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	12-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-67.5
S-121	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c.	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or ISO 300	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-112.5
S-122	Min. 22 ga., type B, Grade 80 steel; 6' spans; two (2) Traxx/5 screws 6" o.c.	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or ISO 300	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-127.5
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:									
S-123	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base, SBS Base, SBS PolyBase, SBS Premium Base	Note 2	18-inch o.c. at the min. 3-inch side lap and 18-inch o.c. at one staggered row in the center of the sheet	(Optional)SBS-CA2	SBS-CA2	-45.0*
S-124	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	MB Base, Channel Venting Base, SBS Base, SBS PolyBase, SBS Premium Base	Note 2	12-inch o.c. at the min. 4-inch side lap and 12-inch o.c. at two, equally spaced staggered rows in the center of the sheet	SBS-CA2	SBS-CA	-60.0
ASPHALT AND/OR TORCH APPLIED BASE PLY:									

TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
S-125	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Note 2	18-inch o.c. at the 3-inch side lap and 36-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-126	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone All Purpose Fastener with MB 2" Barbed Metal Lap Plates	18-inch o.c. within the 4-inch torched side lap.	(Optional) SBS-TA	SBS-TA	-45.0*
S-127	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1 1/4" HWH screw 6" o.c.	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone HD Fasteners with Firestone Coiled Metal Batten Strip	18-inch o.c. through the batten strips at the 4-inch laps	One or more BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-52.5
S-128	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone HD Fasteners with Firestone Batten Strips	12-inch o.c. through the batten strips within the 4-inch wide torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	-67.5
S-129	Min. 22 ga., type B, Grade 33 steel; 6' spans; Traxx/5 screw 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Note 2	12-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-82.5
S-130	Min. 22 ga., type B, Grade 33 steel; 6' spans; two (2) Traxx/5 screws 6" o.c. or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone HD Plus Fasteners with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 4-inch torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	-157.5
SELF-ADHERING BASE PLY:									
S-131	Min. 22 ga., type B, Grade 33 steel; 6' spans; 5/8" puddle weld or #12-24 x 1 1/4" HWH screw 6" o.c.	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone HD Fasteners with Firestone Coiled Metal Batten Strip	18-inch o.c. through the batten strips at the 4-inch laps	SBS-SA	SBS-AA or SBS-TA	-52.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
C-1	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5*
C-2	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	APP-CA	None	APP-CA	-52.5*
C-3	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	(Optional) Additional layers of min. 1-inch base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation followed by min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-60.0*
C-4	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	(Optional) Additional layers of min. 1-inch base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation followed by min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	APP-CA	None	APP-CA	-60.0*
C-5	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
C-6	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	APP-CA	None	APP-CA	-67.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-7	Min. 2,500 psi structural concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
C-8	Min. 2,500 psi structural concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5*
C-9	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack or CR-20	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5*
C-10	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-144.5*
C-11	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	APP-CA	None	APP-CA	-67.5*
C-12	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5*
C-13	Min. 2,500 psi structural concrete	None	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	APP-CA	None	APP-CA	-52.5*
C-14	Min. 2,500 psi structural concrete	None	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-15	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	APP-CA	None	APP-CA	-67.5*
C-16	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
C-17	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	LiquiGard	Min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0*
C-18	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	LiquiGard	(Optional) One or more layers base insulation	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-292.5*
C-19	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	LiquiGard	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-292.5*
C-20	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	None	N/A	SBS-CA2	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0*
C-21	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-277.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-22	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-277.5*
C-23	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0*
ASPHALT AND/OR TORCH APPLIED BASE PLY:										
C-24	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	Hot Asphalt	BP-AA or SBS-AA	(Optional) SBS-TA	SBS-TA	-45.0*
C-25	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA	None	APP-TA	-97.5*
C-26	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-120.0*
C-27	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot asphalt	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) SBS-AA	SBS-AA	-120.0*
C-28	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot asphalt	Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
C-29	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.25-inch Dens Deck or SECURROCK Gypsum-Fiber Roof Board	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
C-30	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-422.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-31	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch Structodek High Density Fiberboard	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-520.0*
C-32	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0*
C-33	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5*
C-34	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
C-35	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-157.5*
C-36	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0*
C-37	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5*
C-38	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
C-39	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
C-40	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-41	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5*
C-42	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5*
C-43	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0*
C-44	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
C-45	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5*
C-46	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	APP-TA	(Optional) APP-TA	APP-TA	-232.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-47	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0*
C-48	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck Prime or SECURock Gypsum Fiber Roof Board	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
C-49	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck or SECURock Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
C-50	Min. 2,500 psi structural concrete	None	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck or SECURock Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
SELF-ADHERING BASE PLY:										
C-51	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot asphalt	Min. 0.5-inch Dens Deck Prime or SECURock Gypsum-Fiber Roof Board	Hot asphalt	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*
C-52	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-112.5*
C-53	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	SBS-SA	(Optional) SBS-AA	SBS-AA	-112.5*
C-54	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	(Optional) One or more layers base insulation	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
C-55	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	(Optional) One or more layers base insulation	I.S.O. FIX II	SBS-SA	(Optional) SBS-AA	SBS-AA	-247.5*
C-56	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-57	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
C-58	Min. 2,500 psi structural concrete	None	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-59	Min. 2,500 psi structural concrete	None	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5*
C-60	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. FIX II	None	N/A	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0*
C-61	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5*
C-62	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray R; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-63	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray R; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
C-64	Min. 2,500 psi structural concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-65	Min. 2,500 psi structural concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5*
C-66	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-67	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. Twin Pack	None	N/A	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0*
C-68	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
C-69	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-240.0*
C-70	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-71	Min. 2,500 psi structural concrete	None	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional additional layers or base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
C-72	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-73	Min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5*
C-74	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. Stick	None	N/A	SBS-SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0*
C-75	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
C-76	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	SBS-SA	(Optional) SBS-AA	SBS-AA	-247.5*

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
C-77	Min. 2,500 psi structural concrete	None	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-78	Min. 2,500 psi structural concrete	None	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
C-79	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
C-80	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5*
C-81	Min. 2,500 psi structural concrete	None	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*
C-82	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Tapered ISO 95+ GL, GenFlex ISO Insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-112.5*
C-83	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Tapered ISO 95+ GL, GenFlex ISO Insulation	CR-20	SBS-SA	(Optional) SBS-AA	SBS-AA	-112.5*
C-84	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA	SBS-AA	-247.5*
C-85	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*

TABLE 3B: 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 (Notes 15 & 16)			MDP (psf)
			Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:						
C-86	Min. 2,500 psi structural concrete	ASTM D41	BP-CA or SBS-CA	(Optional) BP-CA	SBS-CA	-67.5*
C-87	Min. 2,500 psi structural concrete	ASTM D41	APP-CA	None	APP-CA	-127.5*
C-88	Min. 2,500 psi structural concrete	None	SBS-CA	None	SBS-CA	-142.5*
C-89	Min. 2,500 psi structural concrete	ASTM D41	SBS-CA (excluding SBS Smooth)	None	SBS-CA	-180.0*
C-90	Min. 2,500 psi structural concrete	ASTM D41	SBS-CA	None	APP-CA	-225.0*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:						
C-91	Min. 2,500 psi structural concrete	None	BP-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-337.5*
C-92	Min. 2,500 psi structural concrete	None	MB Base in LiquiGard or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-495.0*
ASPHALT AND/OR TORCH APPLIED BASE PLY:						
C-93	Min. 2,500 psi structural concrete	ASTM D41	APP-TA	(Optional) APP-TA	APP-TA	-312.5*
C-94	Min. 2,500 psi structural concrete	ASTM D41	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	APP-TA	-522.5*
C-95	Min. 2,500 psi structural concrete	ASTM D41	BP-AA or SBS-AA	(Optional) One or more BP-AA or SBS-AA	SBS-AA	-547.5*
SELF-ADHERING BASE PLY:						
C-96	Min. 2,500 psi structural concrete	ASTM D41	SBS-SA	(Optional) SBS-AA	SBS-AA	-202.5*
C-97	Min. 2,500 psi structural concrete	ASTM D41	SBS-SA	(Optional) SBS-TA	SBS-TA	-232.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
LWC-1	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5
LWC-2	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*
LWC-3	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-82.5*
LWC-4	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-52.5*
LWC-5	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-52.5*
LWC-6	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*
LWC-7	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5*
LWC-8	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*
LWC-9	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-10	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5*
LWC-11	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-106.0*
LWC-12	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	BP-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
LWC-13	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	APP-CA	None	APP-CA	-67.5*
LWC-14	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-CA	None	SBS-CA	-82.5*
LWC-15	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*
LWC-16	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-82.5*
LWC-17	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-52.5*
LWC-18	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-52.5*
LWC-19	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-20	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5*
LWC-21	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5*
LWC-22	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5*
LWC-23	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5*
LWC-24	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-106.0*
LWC-25	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-144.5*
LWC-26	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell, Celcore or Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	BP-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
LWC-27	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell, Celcore or Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	APP-CA	None	APP-CA	-67.5*
LWC-28	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell, Celcore or Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-CA	None	SBS-CA	-82.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-29	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5*
LWC-30	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-106.0*
LWC-31	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-144.5*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
LWC-32	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5*
LWC-33	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5*
LWC-34	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5*
LWC-35	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5*
LWC-36	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-37	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5*
LWC-38	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5*
LWC-39	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5*
LWC-40	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5*
ASPHALT AND/OR TORCH APPLIED BASE PLY:										
LWC-41	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5*
LWC-42	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	None	SBS-TA	-127.5*
LWC-43	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5*
LWC-44	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	APP-TA	None	APP-TA	-217.5*

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-45	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5*
LWC-46	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-106.0*
LWC-47	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA	(Optional) BP-AA	APP-TA	-97.5*
LWC-48	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	None	SBS-TA	-127.5*
LWC-49	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5*
LWC-50	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-TA	None	APP-TA	-187.5*
LWC-51	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5*
LWC-52	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-106.0*
LWC-53	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-144.5*

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-54	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell, Celcore or Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA	(Optional) BP-AA	APP-TA	-97.5*
LWC-55	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5*
LWC-56	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-106.0*
LWC-57	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-144.5*
SELF-ADHERING BASE PLY:										
LWC-58	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-177.5*
LWC-59	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5*
LWC-60	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0*
LWC-61	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) APP-TA	APP-TA	-112.5*
LWC-62	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA	SBS-TA	-210.0*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-63	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-217.5*
LWC-64	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-65	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) APP-TA	APP-TA	-187.5*
LWC-66	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA	SBS-TA	-202.5*
LWC-67	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-68	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA	SBS-TA	-217.5*
LWC-69	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Twin Pack	SBS-SA	(Optional) APP-TA	APP-TA	-217.5*
LWC-70	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-71	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA	SBS-TA	-217.5*
LWC-72	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) APP-TA	APP-TA	-217.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-73	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-SA	(Optional) APP-TA	APP-TA	-45.0*
LWC-74	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA	SBS-TA	-82.5*
LWC-75	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-76	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5*
LWC-77	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0*
LWC-78	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-AA	SBS-AA	-82.5*
LWC-79	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-172.5*
LWC-80	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-177.5*
LWC-81	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-90.0*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-82	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-SA	(Optional) APP-TA	APP-TA	-112.5*
LWC-83	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-TA	SBS-TA	-187.5*
LWC-84	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-85	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-SA	(Optional) APP-TA	APP-TA	-187.5*
LWC-86	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	SBS-SA	(Optional) APP-TA	APP-TA	-187.5*
LWC-87	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-TA	SBS-TA	-187.5*
LWC-88	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite, GenFlex HD Composite ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-89	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-SA	(Optional) APP-TA	APP-TA	-187.5*
LWC-90	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-TA	SBS-TA	-187.5*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-91	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-92	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-SA	(Optional) APP-TA	APP-TA	-45.0*
LWC-93	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-SA	(Optional) SBS-TA	SBS-TA	-82.5*
LWC-94	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-SA	(Optional) SBS-AA	SBS-AA	-187.5*
LWC-95	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECURROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5*
LWC-96	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECURROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0*
LWC-97	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECURROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Stick	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-144.5*
LWC-98	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell, Celcore or Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-90.0*

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-99	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0*
LWC-100	Min. 2,500 psi structural concrete	Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
LWC-101	Min. 2,500 psi structural concrete	Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA	SBS-AA	-222.5*
LWC-102	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
LWC-103	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA	SBS-AA	-240.0*
LWC-104	Min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf per TAS 105.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5*
LWC-105	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0*
LWC-106	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-144.5*

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 (Notes 15 & 16)			MDP (psf)
			Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
LWC-107	Min. 22 ga., type BV steel at 5 ft spans or min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf per TAS 105.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail or Firestone LWC Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation, RESISTA, GenFlex Coated Glass Facer	(Optional) Optional additional layers base insulation, flat or tapered; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime	I.S.O. FIX II, I.S.O. Stick, I.S.O. Twin Pack	BP-CA, SBS-CA, APP-CA	None	SBS-CA, APP-CA	-45.0*
LWC-108	Min. 22 ga., type BV steel at 5 ft spans or min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf per TAS 105.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail or Firestone LWC Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation, RESISTA, GenFlex Coated Glass Facer	(Optional) Optional additional layers base insulation, flat or tapered; Min. 0.25-inch Dens Deck Prime	I.S.O. FIX II, I.S.O. Stick, I.S.O. Twin Pack	SBS-SA	None	SBS-AA, SBS-TA, APP-TA	-45.0*
LWC-109	Min. 22 ga., type BV steel at 5 ft spans or min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or Trufast FM-90	9-inch o.c. at the 3-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Fiber Top or min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-110	Min. 22 ga., type BV steel at 5 ft spans or min. 2,500 psi structural concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or Trufast FM-90	12-inch o.c. at the 3-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch Fiber Top or min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0

* For steel deck application where specific deck attachment is not referenced, 'as-tested' attachment was not less than 5/8" puddle welds with weld-washers or Tek/5 screws spaced 6" o.c. Note 1.

TABLE 4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck* (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
			Type	Fasteners	Attach	Base Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:								
LWC-111	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0
LWC-112	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0
LWC-113	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0
LWC-114	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Existing, min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:								
LWC-115	Min. 22 ga. steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 460 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	SBS Poly Torch Base	Trufast FM-290V	7-inch o.c. in the 4-inch wide laps	(Optional) SBS-CA2	SBS-CA2	-45.0
LWC-116	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 342 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 71 lbf per TAS 105.</i>	MB Base, Channel Venting Base, SBS Base, SBS PolyBase, SBS Premium Base	Firestone 1.7” LWC Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-CA2	SBS-CA2	-60.0
ASPHALT AND/OR TORCH APPLIED BASE PLY:								
LWC-117	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or Trufast FM-90	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0

TABLE 4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck* (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
			Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-118	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or Trufast FM-90	12-inch o.c. at the 2-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0
LWC-119	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 9-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-CA	SBS-AA or SBS-CA	-45.0
LWC-120	Min. 22 ga. steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 460 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	SBS Poly Torch Base	Trufast FM-290V	7-inch o.c. in the 4-inch wide laps	(Optional) SBS-TA	SBS-TA	-45.0
LWC-121	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0
LWC-122	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0
LWC-123	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0
LWC-124	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Existing, min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0
LWC-125	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners, Trufast FM-90 or OMG CR Base Felt Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5

TABLE 4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck* (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
			Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-126	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners, Trufast-90	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA or SBS-AA	SBS-AA	-52.5
LWC-127	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 88 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
LWC-128	Min. 22 ga., type B steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	SBS PolyTorch Base	Min. 1.8-inch Firestone Two Piece Impact Nails through Trufast Products Straight Line Batten Bars	Fasteners 6-inch o.c. through batten bars within 3-inch wide, torched side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0
LWC-129	Min. 22 ga., type B vented steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Elastizell cellular lightweight insulating concrete	Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0
LWC-130	Min. 22 ga., type B steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, Trufast FM-90 or Trufast FM-290	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
LWC-131	Min. 22 ga., type B steel; 5 ft spans or Min. 2,500 psi structural concrete	Existing, min. 350 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 106 lbf per TAS 105.</i>	MB Base, Channel Venting Base, SBS Base, SBS Base P, SBS Premium Base, SBS Smooth, SBS PolyBase	Firestone LWC Base Ply Fasteners (1.7-inch)	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	One or more SBS-TA	SBS-TA	-60.0

TABLE 4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck* (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
			Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-132	Min. 22 ga., type B steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, Trufast FM-90 or Trufast FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
LWC-133	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 342 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 71 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Premium Base	Firestone 1.7" LWC Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-60.0
LWC-134	Min. 22 ga., type B vented steel; 6 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Concrecel cellular lightweight insulating concrete	Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	-67.5
LWC-135	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 95 lbf per TAS 105.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or Trufast FM-90	7.5-inch o.c. at the 3-inch side lap and 7.5-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-75.0
LWC-136	Min. 22 ga. steel; 5 ft spans or Min. 2,500 psi structural concrete	Concrecel Bonding Agent is applied to the deck at a rate of 600 ft ² /gal. Min. 300 psi, min. 2.25-inch thick Concrecel cellular lightweight insulating concrete followed by Concrecel Curing Compound at a rate of 600 ft ² /gal	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base, APP 160, APP 160-P	OMG CR Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5

* For steel deck application where specific deck attachment is not referenced, 'as-tested' attachment was not less than 5/8" puddle welds with weld-washers or Tek/5 screws spaced 6" o.c. Note 1.

TABLE 4C-2: LIGHTWEIGHT CONCRETE DECKS (OVER THERMAL BARRIER / VAPOR BARRIER) – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck* (Note 1)	Thermal Barrier		Temp Roof	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach			Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-137	Min. 22 ga., type B steel; 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 2 at 1 per 1.6 ft ² per Note 21	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	SBS PolyTorch Base	Min. 1.8-inch Firestone Two Piece Impact Nails through Trufast Products Straight Line Batten Bars	Fasteners 6-inch o.c. through batten bars within 3-inch wide, torched side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0
LWC-138	Min. 22 ga., type B steel; 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 2 at 1 per 1.6 ft ² per Note 21	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base	Firestone LWC Base Ply Fasteners, Trufast FM-90 or Trufast FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-60.0
LWC-139	Min. 22 ga., type B steel; 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 2 at 1 per 1.6 ft ² per Note 21	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, Trufast FM-90 or Trufast FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) APP-TA	APP-TA	-60.0

* For steel deck application where specific deck attachment is not referenced, 'as-tested' attachment was not less than 5/8" puddle welds with weld-washers or Tek/5 screws spaced 6" o.c. Note 1.

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer		Coverboard		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
CWF-1	Tectum	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 5B: CEMENTITIOUS WOOD FIBER 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 (Note A below)			Insulation			Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
CWF-2	Tectum	MB Base, Channel Venting Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	12-inch o.c. at the 4-inch laps and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CWF-3	Tectum	MB Base, Channel Venting Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CWF-4	Tectum	MB Base, Channel Venting Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CWF-5	Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	12-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	(Optional) Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II, I.S.O. Stick or I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

Note A: Anchor sheet may be covered with optional temporary roof consisting of one or two plies BP-AA or SBS-AA, or one Base Ply of BP-AA or SBS-AA followed by one Cap Ply of SBS-AA, SBS-TA or APP-TA.

TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
CWF-6	Tectum	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	1 per 2 ft ²	Min. 0.5-inch Fiber Top	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasteners	Attach (Note 21)	Base Ply	Ply	Cap Ply	
CWF-7	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch FiberTop	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	1 per 2 ft ²	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CWF-8	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	1 per 2.1 ft ²	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

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

System No.	Deck (Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
CWF-9	Tectum	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Fasteners	Attach	Base Ply	Cap Ply	
CWF-10	Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	-45.0*
CWF-11	Tectum	MB Base, Channel Venting Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CWF-12	Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA	SBS-AA	-45.0*
CWF-13	Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 3-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
G-1	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	BP-CA	(Optional) BP-CA, SBS-CA	SBS-CA or APP-CA	-67.5*
G-2	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	APP-CA	None	APP-CA	-67.5*
G-3	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack; CR-20	SBS-CA	None	SBS-CA	-82.5*
ASPHALT AND/OR TORCH APPLIED BASE PLY:									
G-4	Existing poured gypsum or gypsum plank primed with WeatherTite Universal Primer	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0*
G-5	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-157.5*
G-6	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	None	SBS-TA	-127.5*
G-7	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-135.0*
G-8	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	CR-20	SBS-TA	None	SBS-TA	-127.5*
G-9	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
G-10	Existing poured gypsum or gypsum plank	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
SELF-ADHERING BASE PLY:									

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
G-11	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5*
G-12	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5*
G-13	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5*
G-14	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-135.0*
G-15	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Tapered ISO 95+ GL, GenFlex ISO Insulation	CR-20	SBS-SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5*
G-16	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
G-17	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-AA	SBS-AA	-247.5*

TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
G-18	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base (Note A below)	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (Testing Application Standard TAS 105 MCRF \geq 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-19	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth (Note A below)	Firestone Two Piece Impact Nail (Testing Application Standard TAS 105 MCRF \geq 105 lbf)	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.5-inch FiberTop	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-20	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth (Note A below)	Firestone Two Piece Impact Nail (Testing Application Standard TAS 105 MCRF \geq 105 lbf)	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECURROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-21	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base	Firestone Two Piece Impact Nail (Testing Application Standard TAS 105 MCRF \geq 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Min. 0.25-inch Dens Deck or 0.25-inch SECURROCK Gypsum Fiber Roof Board, min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5

Note A: Anchor sheet may be covered with optional temporary roof consisting of one or two plies BP-AA or SBS-AA, or one Base Ply of BP-AA or SBS-AA followed by one Cap Ply of SBS-AA, SBS-TA or APP-TA.

TABLE 6C: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Fasteners	Attach (Note 21)	Type	Attach	Base Ply	Ply	Cap Ply	
G-22	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (Testing Application Standard TAS 105 MCRF \geq 180 lbf)	1 per 2 ft ²	Min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board, min. 0.5-inch FiberTop	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 6D: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Notes 15 & 16)			MDP (psf)
			Type	Fasteners	Attach (Note 21)	Base Ply	Ply	Cap Ply	
G-23	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch FiberTop	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (Testing Application Standard TAS 105 MCRF \geq 180 lbf)	1 per 2 ft ²	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 6E: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
G-24	Existing poured gypsum or gypsum plank	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (Testing Application Standard TAS 105 MCRF \geq 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 6F: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Notes 15 & 16)		MDP (psf)
		Type	Fasteners	Attach	Base Ply	Cap Ply	
G-25	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (Testing Application Standard TAS 105 MCRF \geq 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-26	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nail (Testing Application Standard TAS 105 MCRF \geq 105 lbf)	9-inch o.c. in the 2-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-CA	SBS-AA or SBS-CA	-45.0*
G-27	Existing poured gypsum or gypsum plank	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nail (Testing Application Standard TAS 105 MCRF \geq 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
R-1	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
R-2	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	APP-CA	None	APP-CA	-67.5*
R-3	Existing asphalt BUR	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack or I.S.O. Stick Adhesive	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack or I.S.O. Stick Adhesive	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
R-4	Existing asphalt BUR	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack or I.S.O. Stick Adhesive	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack or I.S.O. Stick Adhesive	APP-CA	None	APP-CA	-67.5*
R-5	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick or CR-20	SBS-CA	None	SBS-CA	-82.5*
R-6	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5*
R-7	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5*
R-8	Existing asphalt BUR	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-52.5*
R-9	Existing asphalt BUR	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5*
R-10	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-11	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
R-12	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5*
R-13	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5*
R-14	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-52.5*
R-15	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5*
R-16	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5*
R-17	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5*
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:									
R-18	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-19	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0*
R-20	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-195.0*
R-21	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-195.0*
R-22	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S; I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-202.5*
R-23	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO or Min. 0.25-inch Dens Deck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S; I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-202.5*
ASPHALT AND/OR TORCH APPLIED BASE PLY:									
R-24	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch FiberTop	Hot Asphalt	BP-AA	None	APP-TA	-97.5*
R-25	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch Fiber Top	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-120.0*
R-26	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.25-inch Dens Deck or SECURROCK Gypsum-Fiber Roof Board	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-27	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch Fiber Top	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-422.5*
R-28	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	Hot Asphalt	Min. 0.5-inch Structodek High Density Fiberboard	Hot Asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-520.0*
R-29	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-157.5*
R-30	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	None	SBS-TA	-120.0*
R-31	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Stick	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-120.0*
R-32	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5*
R-33	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0*
R-34	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
R-35	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-36	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-232.5*
R-37	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0*
R-38	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5*
R-39	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch FiberTop C or S	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0*
R-40	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5*
R-41	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5*
R-42	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-AA, SBS-AA or APP-TA	(Optional) APP-TA	APP-TA	-195.0*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-43	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S; I.S.O. Twin Pack	BP-AA, SBS-AA or APP-TA	(Optional) APP-TA	APP-TA	-202.5*
R-44	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	CR-20	SBS-TA	None	SBS-TA	-127.5*
R-45	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
R-46	Existing asphalt BUR	Min. 1.5-inch, min. 2.0 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-225.0*
SELF-ADHERING BASE PLY:									
R-47	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
R-48	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. FIX II	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0*
R-49	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-50	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-195.0*
R-51	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-52	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. FIX II	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-195.0*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-53	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*
R-54	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5*
R-55	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-202.5*
R-56	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-57	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
R-58	Existing asphalt BUR	(Optional) One or more layers, min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5*
R-59	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-60	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Twin Pack	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
R-61	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-62	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-202.5*
R-63	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
R-64	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBA-AA	SBS-AA	-247.5*
R-65	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-66	Existing asphalt BUR	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-67	Existing granule surface modified bitumen	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
R-68	Existing asphalt BUR	Min. 1-inch RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*
R-69	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-70	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBA-AA	SBS-AA	-187.5*
R-71	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5*

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Notes 15 & 16)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
R-72	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.5-inch ISOGARD HD, GenFlex HD ISO	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5*
R-73	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*
R-74	Existing asphalt BUR	Min. 1-inch ISO 95+ GL, GenFlex ISO Insulation or RESISTA, GenFlex Coated Glass Facer	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch Tapered ISO 95+ GL, GenFlex ISO Insulation or Tapered RESISTA, GenFlex Coated Glass Facer; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5*
R-75	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	Tapered ISO 95+ GL, GenFlex ISO Insulation	CR-20	SBS-SA	(Optional) SBA-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5*
R-76	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0*
R-77	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL, GenFlex ISO Insulation	CR-20	(Optional) One or more layers base insulation	CR-20	SBS-SA	(Optional) SBA-AA	SBS-AA	-247.5*