NEMO|etc.
Certificate of Authorization #32455
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ENGINEER EVALUATE TEST CONSULT

EVALUATION REPORT

Beacon Sales Acquisition, Inc.
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(610) 893-5400

Evaluation Report 1m-CTR-19-FBCER.08.19-R1
FL30268-R1
Date of Issuance: 08/13/2019
Revision 1: 03/23/2020

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: TRI-BUILT Modified Bitumen Roof Systems

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

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance 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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. 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 "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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

This Evaluation Report consists of pages 1 through 4, plus a 45-page Appendix.

Prepared by:

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

No. 59166

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 03/23/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. 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: **TRI-BUILT Modified Bitumen Roof Systems**, as produced by **Beacon Sales Acquisition, Inc.**, have demonstrated compliance with the following sections of the **6th Edition (2017) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1504.3.1	Wind	FM 4474	2011
1504.7	Impact	FM 4470	2012
1507.1.1	Physical properties	ASTM D1970	2015
1507.10.2	Physical properties	ASTM D4601	2012
1507.11.2	Physical Properties	ASTM D6164	2011
1507.11.2	Physical Properties	ASTM D6222	2011

3. REFERENCES:

Entity	Examination	Reference	Date
NEMO	Evaluation Report	3520.03.04-R24	06/20/2019
NEMO	Cross-Reference	FBC Product Cross Listing	06/24/2019
NEMO	Cross-Reference	FBC Product Cross Listing	03/23/2020
UL, LLC. (QUA9625)	Quality Assurance	Service Confirmation, R11656	11/13/2019

4. PRODUCT DESCRIPTION:

This Evaluation Report covers **TRI-BUILT Modified Bitumen Roof Systems** installed in accordance with **Beacon Sales Acquisition, Inc.** published installation instructions and the Limitations / Conditions of Use herein. The following products make up the subject systems.

TABLE 1: ROLL-GOODS FOR TRI-BUILT MODIFIED BITUMEN ROOF SYSTEMS

TYPE	PRODUCT	SPECIFICATION		
		REFERENCE	GRADE	TYPE
Base Sheets	TRI-BUILT SA Nailbase	ASTM D4601	N/A	II
	TRI-BUILT FB Base Sheet 3 SQ	ASTM D4601	N/A	II
Base Ply	TRI-BUILT SA Plybase	ASTM D1970	N/A	N/A
	TRI-BUILT SAT Base	ASTM D1970	N/A	N/A
	TRI-BUILT Smooth Torch	ASTM D6222	S	I
Cap Ply	TRI-BUILT SA Cap	ASTM D6164	G	I
	TRI-BUILT SBS Cap	ASTM D6164	G	I
	TRI-BUILT Smooth Torch	ASTM D6222	S	I
	TRI-BUILT Granulated Torch	ASTM D6222	G	I

5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

5.2 This Evaluation Report is not for use in HVHZ jurisdictions.

5.3 This Evaluation Report does not purport to address codified fire requirements. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.

5.4 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.

5.5 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.

5.6 For recover installations, the existing roof shall be examined in accordance with **FBC 1511**.

5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016)** for Zone 2/3 enhancements.

5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.

5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.

5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.

5.11 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 **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.

5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with **ANSI/SPRI ES-1** or **Roofing Application Standard RAS 111**, except the basic wind speed shall be determined from **FBC Figure 1609.3(1), 1609.3(2) or 1609.3(3)**.

5.13 All products in the roof assembly shall have quality assurance in accordance with **FAC Rule 61G20-3**. For non-Beacon Sales Acquisition, Inc. components listed within wind uplift rated assemblies in Appendix 1, refer to the Product Approval of the component manufacturer.

6. INSTALLATION:

6.1 **TRI-BUILT Modified Bitumen Roof Systems** shall be installed in accordance with **Beacon Sales Acquisition, Inc.** published installation instructions, subject to the Limitations / Conditions of Use 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 **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3 QA** requirements.

9. QUALITY ASSURANCE ENTITY:

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

- THE 45-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	4
1B	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	5-6
1C	Wood	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	6
1D	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	7-8
1E	Wood	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	9-10
1F-1	Wood	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	10-12
1F-2	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	12-13
1G	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	13
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	14-15
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	16-18
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	19
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	20-25
3B	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	25
4A	Lightweight concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	26-28
4B	Lightweight concrete	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	29-30
4C	Lightweight concrete	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	31-33
5A	Cementitious wood fiber	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	34
5B	Cementitious wood fiber	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	35
5C	Cementitious wood fiber	Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	35
5D	Cementitious wood fiber	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	36
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	37-38
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	39
6C	Existing gypsum	Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	39
6D	Existing gypsum	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	40
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	41-45

The following notes apply to the systems outlined herein:

1. The roof system evaluation herein pertains to above-deck roof components. Roof decks shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:

➢ Wood Deck:	OMG #14 Roofgrip with Flat Bottom Plate (Accutrac), OMG HD with OMG 3 in. Galvalume Steel Plate, Dekfast #14 with Hex Plate or 3” Round Insulation Plate or Trufast #14HD with Trufast 3” Metal Insulation Plates. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
➢ Steel Deck:	OMG #12 or #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac), OMG #12 Standard or HD with OMG 3 in. Galvalume Steel Plate, Dekfast #12 or #14 with Hex Plate or 3” Round Insulation Plate or Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
➢ Structural Concrete:	OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac), OMG HD or CD-10 with OMG 3 in. Galvalume Steel Plate, Dekfast #14 or DekSpike with Hex Plate or 3” Round Insulation Plate or Trufast #14HD with Trufast 3” Metal Insulation Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer’s published installation instructions.

3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, GlasRoc Roof Board or gypsum-based roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.

4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for, or installed beneath rigid insulation board for System Type D (mechanically attached base sheet, bonded roof cover), whereby the base sheet screws and plates are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.

5. Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (January 2016).

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 (HA): Full coverage at 25-30 lbs/square
    - Ashland Pliodeck (A-PD): Continuous 0.75 inch wide ribbons, 12-inch o.c. *Ribbons of subsequent layers shall be perpendicular to those in the layer below.*
    - Dow INSTA-STIK Quik Set Insulation Adhesive (D-IS): Continuous 0.75 to 1 inch wide ribbons, 12-inch o.c.
    - ICP Adhesives Polyset BOARD-MAX: Continuous 3-inch ribbons, 12-inch o.c.
    - ICP Adhesives Polyset CR-20: Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c.
    - Millennium One Step Foamable Adhesive (M-OSFA): Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.
    - Millennium PG-1 Pump Grade Adhesive (M-PG1): Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.
    - OMG OlyBond 500 or OlyBond Green (OB500): Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart or SpotShot)
    - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, boards 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:
    - Ashland Pliodeck (A-PD) @ 12-inch o.c.: MDP -105.0 psf (Min. 1.0-inch)
    - Ashland Pliodeck (A-PD) @ 6-inch o.c.: MDP -277.5 psf (Min. 1.0-inch)
    - Dow INSTA-STIK Quik Set Insulation Adhesive (D-IS): MDP -120.0 psf (Min. 1.0-inch)
    - ICP Adhesives Polyset CR-20: MDP -117.5 psf (Min. 1.0-inch)
    - Millennium One Step Foamable Adhesive (M-OSFA): MDP -157.5 psf (Min. 1.0-inch)
    - Millennium PG-1 Pump Grade Adhesive (M-PG1): MDP -157.5 psf (Min. 1.0-inch)
    - OMG OlyBond 500 (OB500): MDP -45.0 psf (Min. 0.5-inch Multi-Max FA3)
    - OMG OlyBond 500 (OB500): MDP -187.5 psf (Min. 0.5-inch ISO 95+ GL)
    - OMG OlyBond 500 (OB500): MDP -315.0 psf (Min. 0.5-inch ENRGY 3)
    - OMG OlyBond 500 (OB500): MDP -487.5 psf (Min. 0.5-inch ACFoam II)

8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.

9. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.

10. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.

11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.

12. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) 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 ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

13. For Concrete Deck or 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 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. For “pre-existent” LWC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Unless otherwise noted, use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer of Record and Authority Having Jurisdiction.

15. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

TRI-BUILT MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS

REFERENCE	LAYER	MATERIAL	APPLICATION
BP-AA	Base Ply or Ply:	TRI-BUILT FG Base Sheet 3 SQ	Hot asphalt at 20-40 lbs/square
SBS-AA	Cap Ply:	TRI-BUILT SBS Cap	Hot asphalt at 20-40 lbs/square
APP-TA	Base Ply:	TRI-BUILT Smooth Torch	Torch-Applied
	Cap Ply:	TRI-BUILT Smooth Torch, TRI-BUILT Granulated Torch	
SBS-SA-H	Base Ply:	TRI-BUILT SAT Base	Self-Adhering
SBS-SA	Base Ply:	TRI-BUILT SA Plybase	Self-Adhering
	Ply:	TRI-BUILT SA Plybase	
	Cap Ply:	TRI-BUILT SA Cap	

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

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLE 3A; (The lesser of the MDP listings below vs. those in **Table 3A** applies)

OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	ATTACH		
VB-1.	Karnak 108 Asphalt Primer	TRI-BUILT SA Plybase	Self-adhering	OB500, 12-inch o.c.	-82.5
VB-2.	Karnak 108 Asphalt Primer	TRI-BUILT Granulated Torch	Torch-applied	M-OSFA or M-PG1, 12-inch o.c.	-420.0

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

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

Sys. No.	Deck (Note 1)	Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:									
W-1	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer.	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
W-2	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer.	M-OSFA or M-PG1, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
HYBRID SYSTEMS:									
W-3	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
W-4	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-97.5
CONVENTIONAL SYSTEMS:									
W-5	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
W-6	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-97.5

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

Sys. No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:												
W-7	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-8	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 4-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
W-9	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 4-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
HYBRID SYSTEMS:												
W-10	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA	None	N/A	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-11	Min. 19/32-inch plywood at max. 24-inch	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA	None	N/A	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:												
W-12	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with Karnak 81 Asphalt Primer	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*

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

Sys. No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
W-13	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 4-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 81 Asphalt Primer	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
W-14	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY-3, H-Shield or Multi-Max FA3	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 4-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA full coverage or OB500, M-OSFA, A-PD, D-IS, ICP BOARD-MAX or CR-20, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0

TABLE 1C: 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 (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
HYBRID SYSTEMS:										
W-15	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield or FlintBoard ISO$_{H}$.	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 1.33 ft^2	Min. 1.5-inch ACFoam II or H-Shield	HA, D-IS, M-OSFA, M-PG1 or OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-67.5
CONVENTIONAL SYSTEMS:										
W-16	Min. 23/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield	Note 2	1 per 2 ft^2	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-17	Min. 23/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield	Note 2	1 per 2 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-18	Min. 15/32-inch plywood at max. 24-inch spans	Min. 1.5-inch ACFoam II or H-Shield.	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 1.33 ft^2	Optional additional layer(s) of base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof board	HA, D-IS, M-OSFA, M-PG1 or OB500	APP-TA	(Optional) APP-TA	APP-TA	-90.0

TABLE 1D: 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 (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:									
W-19	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 3.2 ft^2	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0*
W-20	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck	Note 2	1 per 1.33 ft^2	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
W-21	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft^2	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-22	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield, Multi-Max FA3	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 2 ft^2	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-23	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
W-24	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield, Multi-Max FA3	Note 2	1 per 1.45 ft^2	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
HYBRID SYSTEMS:									
W-25	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck; Dens Deck Prime	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 2 ft^2	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
W-26	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14 HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-52.5
W-27	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.33 ft^2	SBS-SA-H	(Optional) BP-AA	SBS-AA	-52.5
W-28	Min. 19/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, or H-Shield	Note 2	1 per 1.45 ft^2	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
W-29	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, or H-Shield	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 1.33 ft^2	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-75.0

TABLE 1D: 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 (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
W-30	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.33 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-82.5
CONVENTIONAL SYSTEMS:									
W-31	Min. 23/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-32	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	1 per 2 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-33	Min. 15/32-inch plywood at max. 24-inch spans	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	1 per 1.45 ft^2	APP-TA	(Optional) APP-TA	APP-TA	-60.0
W-34	Min. 19/32-inch plywood at max. 24-inch spans	(Optional for Concrete or Recover) Min. 2-inch ACFoam II, H-Shield or ENRGY 3, loose laid.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	1 per 1.78 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
W-35	Min. 15/32-inch plywood at max. 24-inch spans	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	1 per 1.33 ft^2	APP-TA	(Optional) APP-TA	APP-TA	-67.5

TABLE 1E: 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) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:									
W-36	Min. 19/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT SA Nailbase	Note 2	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer	(Optional) SBS-SA	SBS-SA	-82.5*
W-37	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT SA Nailbase	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	(Optional) SBS-SA	SBS-SA	-97.5*
W-38	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT SA Nailbase	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	(Optional) SBS-SA	SBS-SA	-127.5*
HYBRID SYSTEMS:									
W-39	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	SBS-SA-H	SBS-AA or APP-TA	-97.5
W-40	Min. 19/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-105.0
W-41	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	SBS-SA-H	SBS-AA or APP-TA	-127.5
CONVENTIONAL SYSTEMS:									
W-42	Min. 23/32-inch plywood at max. 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
W-43	Min. 23/32-inch plywood at max. 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 1E: 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) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
W-44	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows.	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-97.5
W-45	Min. 15/32-inch plywood at max 24-inch spans	One or more layers, any thickness or combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Trufast #14HD with Trufast 3” Metal Insulation Plates	8-inch o.c. at 4-inch lap and 8-inch o.c. at three (3) equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA, APP_TA	-97.5
W-46	Min. 19/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
W-47	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows.	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-127.5

TABLE 1F-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 (Note 15)		MDP (psf)
		Base	Fasteners	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:							
W-48	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	Simplex MAXX Cap	9-inch o.c. at min. 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer.	(Optional) SBS-SA	SBS-SA	-45.0*
W-49	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5
W-50	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT SA Nailbase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5
W-51	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT SA Nailbase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-60.0
W-52	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	Simplex MAXX Cap	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer.	(Optional) SBS-SA	SBS-SA	-67.5
W-53	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-75.0
W-54	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120" shank diameter, annular ring shank nails	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in five (5), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-75.0

TABLE 1F-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 (Note 15)		MDP (psf)
		Base	Fasteners	Attach	Ply	Cap	
W-55	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at min. 2-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-105.0
HYBRID SYSTEMS:							
W-56	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0*
W-57	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-52.5
W-58	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-52.5
W-59	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-60.0
W-60	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-82.5
W-61	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-105.0
CONVENTIONAL SYSTEMS:							
W-62	Min. 19/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-63	Min. 15/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-64	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
W-65	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
W-66	Min. 15/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
W-67	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
W-68	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120-inch shank diameter, annular ring shank nails.	6-inch o.c. at 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA	-67.5
W-69	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-82.5
W-70	Min. 15/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-90.0

TABLE 1F-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 (Note 15)		MDP (psf)
		Base	Fasteners	Attach	Ply	Cap	
W-71	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
W-72	Min. 15/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0

TABLE 1F-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 (Note 15)		MDP (psf)
		Base	Fasteners	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:							
W-73	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	Note 2	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows. Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer	(Optional) SBS-SA	SBS-SA	-82.5*
W-74	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows. Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	(Optional) SBS-SA	SBS-SA	-97.5*
W-75	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT SA Nailbase	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows. Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	(Optional) SBS-SA	SBS-SA	-127.5*
HYBRID SYSTEMS:							
W-76	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows. Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	SBS-SA-H	SBS-AA or APP-TA	-97.5
W-77	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-105.0
W-78	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows. Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer.	SBS-SA-H	SBS-AA or APP-TA	-127.5
CONVENTIONAL SYSTEMS:							
W-79	Min. 23/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
W-80	Min. 23/32-inch plywood at max. 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
W-81	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3" Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-97.5

TABLE 1F-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 (Note 15)		MDP (psf)
		Base	Fasteners	Attach	Ply	Cap	
W-82	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Trufast #14HD with Trufast 3” Metal Insulation Plates	8-inch o.c. at 4-inch lap and 8-inch o.c. at three (3) equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA	-97.5
W-83	Min. 19/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
W-84	Min. 15/32-inch plywood at max 24-inch spans	TRI-BUILT FB Base Sheet 3 SQ	OMG #14HD with OMG 3 in. Round Metal Plates or Trufast #12DP or #14HD with Trufast 3” Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-127.5

TABLE 1G: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base	Ply	Cap	
W-85	Min. 15/32-inch plywood at max 24-inch spans	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	SBS-SA-H	(Optional)APP-TA	APP-TA	-112.5
W-86	Min. 15/32-inch plywood at max 24-inch spans	Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	SBS-SA	(Optional) SBS-SA	SBS-SA	-127.5

TABLE 2A: STEEL OR STRUCTURAL CONCRETE 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 (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:										
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 4 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
HYBRID SYSTEMS:										
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft^2	Min. 1.5-inch ACFoam II or H-Shield	HA, D-IS, M-OSFA, M-PG1 or OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-67.5
S-4	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS, M-OSFA, M-PG1 or OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-75.0
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ENRGY 3	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	SBS-SA-H	(Optional) APP-TA	APP-TA	-90.0*
CONVENTIONAL SYSTEMS:										
S-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 4 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-37.5*
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2 ft^2	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2 ft^2	Min. 0.25-inch Dens Deck or Dens Deck Prime	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft^2	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 2A: STEEL OR STRUCTURAL CONCRETE 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 (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft^2	Min. 0.25-inch Dens Deck or Dens Deck Prime	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or Mult-Max FA3	Note 2	1 per 1.33 ft^2	Min. 0.75-inch FescoBoard (homogeneous)	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 1.6 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or Mult-Max FA3	Note 2	1 per 1.33 ft^2	Min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-67.5
S-15	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS, M-OSFA, M-PG1 or OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-75.0
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ENRGY 3	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-90.0*

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(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:									
S-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft^2	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0*
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft^2	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5*
S-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft^2	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck	Note 2	1 per 1.33 ft^2	Apply Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
S-21	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.78 ft^2	Apply Karnak 81 Asphalt Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
S-22	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	Apply Karnak 81 Asphalt Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-82.5
S-23	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #15EHD (steel only) or Trufast #14HD (concrete only) with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	Apply Karnak 81 Asphalt Primer to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
HYBRID SYSTEMS:									
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck; Dens Deck Prime	Note 2	1 per 2 ft^2	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft^2	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-37.5*
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft^2	SBS-SA-H	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-27	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch FlintBoard ISO	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.78 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-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(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
S-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft^2	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-75.0
S-29	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-82.5
S-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-82.5
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.33 ft^2	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-82.5
S-32	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #15EHD (steel only) or Trufast #14HD (concrete only) with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-97.5
S-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	SBS-SA-H	(Optional) APP-TA	APP-TA	-135.0
CONVENTIONAL SYSTEMS:									
S-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2.67 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
S-35	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Note 2	1 per 4 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-37.5*
S-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-37.5*
S-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA 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(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
S-39	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 Dens Deck Prime	Note 2	1 per 2 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft^2	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 2-inch ACFoam II, H-Shield or ENRGY 3, loose laid.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
S-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-82.5
S-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch Dens Deck Prime	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.33 ft^2	BP-AA	(Optional) BP-AA	SBS-AA	-112.5
S-44	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. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12DP (steel only) or #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-135.0
S-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1.33 ft^2	BP-AA	(Optional) BP-AA	SBS-AA	-157.5
S-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch Dens Deck Prime	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	BP-AA	(Optional) BP-AA	SBS-AA	-157.5
S-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14HD with Trufast 3" Metal Insulation Plates	1 per 1 ft^2	BP-AA	(Optional) BP-AA	SBS-AA	-172.5

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) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:									
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT SA Nailbase	Note 2	9-inch o.c. at min. 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-45.0*
S-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT SA Nailbase	Note 2	12-inch o.c. at min. 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5*
S-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT SA Nailbase	Note 2	12-inch o.c. at min. 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-60.0*
S-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT SA Nailbase (laid parallel to deck flutes)	Note 2	8-inch o.c. at min. 4-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-82.5*
CONVENTIONAL SYSTEMS:									
S-52	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-30.0*
S-53	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
S-54	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT FB Base Sheet 3 SQ	Note 2	12-inch o.c. at 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
S-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	TRI-BUILT FB Base Sheet 3 SQ	OMG Flat Bottom Plates with OMG #14 HD (Accutrac)	6-inch o.c. at 4-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or APP-TA	SBS-AA or APP-TA	-67.5
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	TRI-BUILT FB Base Sheet 3 SQ	Trufast #14HD with Trufast 3” Metal Insulation Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. at three (3) equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA	-97.5

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:										
C-1.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-2.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-3.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	A-PD	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	A-PD	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
C-4.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-5.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	A-PD 6-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	A-PD 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-6.	Structural concrete	(Optional) Karnak 81 Asphalt Primer	Min. 1.5-inch Multi-Max FA	D-IS	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
C-7.	Structural concrete	(Optional) Karnak 81 Asphalt Primer	Min. 1.5-inch ENRGY 3	D-IS	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-112.5
C-8.	Structural concrete	(Optional) Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II	D-IS	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-9.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-10.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-11.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA	M-OSFA or M-PG1	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-12.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-13.	Structural concrete	None	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-14.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-15.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-16.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:										
C-17.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II or H-Shield	HA	(Optional) Additional layer(s) base insulation	HA	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-375.0
C-18.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	A-PD	(Optional) Additional layer(s) base insulation	A-PD	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-180.0
C-19.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	A-PD	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-117.5
C-20.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-21.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
C-22.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	D-IS	(Optional) Additional layer(s) base insulation	D-IS	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-135.0
C-23.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-24.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
C-25.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Additional layer(s) base insulation	M-OSFA	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-232.5
C-26.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-27.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
C-28.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	(Optional) Additional layer(s) base insulation	M-PG1	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-270.0

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-29.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-30.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
C-31.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-135.0
C-32.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-33.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
C-34.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	ICP BOARD-MAX or CR-20	(Optional) Additional layer(s) base insulation	ICP BOARD-MAX or CR-20	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-270.0
C-35.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-217.5
C-36.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
CONVENTIONAL SYSTEMS:										
C-37.	Structural concrete	Karnak 81 Asphalt Primer	(Optional) Min. 1.5-inch ACFoam II.	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
C-38.	Structural concrete	Karnak 81 Asphalt Primer	(Optional) Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
C-39.	Structural concrete	Karnak 81 Asphalt Primer	(Optional) Min. 1.5-inch ACFoam II or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-40.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	HA	Min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-227.0
C-41.	Structural concrete	Karnak 81 Asphalt Primer	(Optional) Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-42.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	HA	Min. 0.25-inch Dens Deck	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0
C-43.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II	HA	Min. 0.75-inch FescoBoard (homogeneous)	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-412.0
C-44.	Structural concrete	Karnak 81 Asphalt Primer	Min. 1.5-inch ACFoam II	HA	Min. 0.5-inch DuraBoard (homogeneous)	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-430.0
C-45.	Structural concrete	Karnak 81 Asphalt Primer	0.5-inch Structodek High Density Fiberboard or min. 0.75-inch Fesco Board (homogeneous)	HA	None	N/A	BP-AA	(Optional) BP-AA	SBS-AA	-437.5

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-46.	Structural concrete	Karnak 81 Asphalt Primer	0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	None	N/A	BP-AA	(Optional) BP-AA	SBS-AA	-537.5
C-47.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD	Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch Dens Deck	A-PD	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
C-48.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD 6-inch o.c.	Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch Dens Deck	A-PD 6-inch o.c.	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-217.5
C-49.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	A-PD	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-117.5
C-50.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-217.5
C-51.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-52.	Structural concrete	None	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-53.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	D-IS	Min. 0.25-inch Dens Deck Prime	D-IS	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-54.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
C-55.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-56.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-57.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-58.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	D-IS	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-59.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-60.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-127.5
C-61.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.5-inch Structodek High Density Fiberboard	M-PG1	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-62.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck	M-OSFA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-232.5
C-63.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch Dens Deck	M-PG1	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0
C-64.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	Min. 0.25-inch Dens Deck Prime	M-PG1	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-65.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
C-66.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-67.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-68.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-69.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	M-PG1	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-70.	Structural concrete	None	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-71.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0
C-72.	Structural concrete	None	Min. 1.5-inch ACFoam II.	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-150.0
C-73.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch Dens Deck Prime	OB500	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-74.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
C-75.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-76.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-77.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA	(Optional) BP-AA	SBS-AA	-297.5
C-78.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	OB500	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-79.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0

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

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-80.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	ICP BOARD-MAX or CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
C-81.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
C-82.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-83.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch Dens Deck	ICP BOARD-MAX or CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0
C-84.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	ICP BOARD-MAX or CR-20	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
C-85.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0

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 (Note 15)			MDP (psf)
			Base	Ply	Cap	
SELF-ADHERING SYSTEMS:						
C-86.	Structural concrete	Karnak 89 Sta-Tack Primer	SBS-SA	(Optional) SBS-SA	SBS-SA	-555.0
C-87.	Structural concrete	Karnak 81 Asphalt Primer	SBS-SA	(Optional) SBS-SA	SBS-SA	-630.0
HYBRID SYSTEMS:						
C-88.	Structural concrete	Karnak 81 Asphalt Primer	SBS-SA-H	(Optional) APP-TA	APP-TA	-150.0
C-89.	Structural concrete	Karnak 81 Asphalt Primer	SBS-SA-H	(Optional) BP-AA	SBS-AA	-240.0
CONVENTIONAL SYSTEMS:						
C-90.	Structural concrete	Karnak 81 Asphalt Primer	APP-TA	(Optional) APP-TA	APP-TA	-420.0
C-91.	Structural concrete	Karnak 81 Asphalt Primer	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-635.0

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 (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:										
LWC-1	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-2	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	A-PD, 6-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-187.5
LWC-3	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-4	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-5	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-6	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-7	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-8	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0
LWC-9	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-10	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-11	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-12	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-13	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-14	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-15	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
HYBRID SYSTEMS:										
LWC-16	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-52.5
LWC-17	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-215.0
CONVENTIONAL SYSTEMS:										
LWC-18	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD 6-inch o.c.	Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch Dens Deck	A-PD 6-inch o.c.	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
LWC-19	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-217.5
LWC-20	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-21	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-22	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-23	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-24	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-25	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II.	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-150.0
LWC-26	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-27	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
LWC-28	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-29	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-30	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-31	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
LWC-32	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
LWC-33	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-215.0

TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 14)			Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fastener	Attach	Base	Top	Attach	Base	Ply	Cap	
Self-Adhering Systems:														
LWC-34	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer.	Hot asphalt	SBA-SA	(Optional) SBS-SA	SBS-SA	-60.0
LWC-35	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer.	Hot asphalt	SBA-SA	(Optional) SBS-SA	SBS-SA	-67.5
Hybrid Systems:														
LWC-36	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with Karnak 108 Asphalt Primer.	Hot asphalt	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-60.0
LWC-37	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with Karnak 108 Asphalt Primer.	Hot asphalt	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-67.5
Conventional Systems:														

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)	LWC (Note 14)			Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fastener	Attach	Base	Top	Attach	Base	Ply	Cap	
LWC-38	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	BP-AA	(Optional) SBS-AA or APP-TA	SBS-AA or APP-TA	-60.0
LWC-39	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with Karnak 81 Asphalt Primer.	Hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-60.0
LWC-40	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	BP-AA	(Optional) SBS-AA or APP-TA	SBS-AA or APP-TA	-67.5
LWC-41	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with Karnak 81 Asphalt Primer.	Hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-67.5

TABLE 4C: 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 (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap	
SELF-ADHERING SYSTEMS:										
LWC-42	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT SA Nailbase	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0
LWC-43	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT SA Nailbase	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0
LWC-44	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”)	7-inch o.c. at the min. 2-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer	SBS-SA	SBS-SA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 73 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-45	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”)	9-inch o.c. at the min. 2-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with Karnak 81 Asphalt Primer or Karnak 89 Sta-Tack Primer	SBS-SA	SBS-SA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 93 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
HYBRID SYSTEMS:										
LWC-46	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-30.0
LWC-47	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
LWC-48	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0

TABLE 4C: 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 (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap	
LWC-49	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
LWC-50	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
CONVENTIONAL SYSTEMS:										
LWC-51	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-30.0
LWC-52	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-53	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-54	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-55	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 250 psi, min 2-inch Mearlcrete.	None	TRI-BUILT FB Base Sheet 3 SQ	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA or APP-TA	-45.0

TABLE 4C: 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 (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap	
LWC-56	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min 2-inch Mearlcrete.	None	TRI-BUILT FB Base Sheet 3 SQ	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA or APP-TA	-52.5
LWC-57	Min. 22 ga. steel at max 5 ft spans or structural concrete	Concrecel Bonding Agent	Min. 300 psi, min 2¼-inch Concrecel Concrete.	Concrecel Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA	SBS-AA or APP-TA	-52.5
LWC-58	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-59	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA or APP-TA	-67.5
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 77 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-60	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min 2-inch Celcore Cellular Concrete.	Celcore PVA Curing Compound	TRI-BUILT FB Base Sheet 3 SQ	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA or APP-TA	-75.0

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

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	**Attach**	**Type**	**Attach**	**Base**	**Ply**	**Cap**	
SELF-ADHERING SYSTEMS:									
CWF-1.	Existing Tectum	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer; or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
CWF-2.	Existing Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer; or SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
CONVENTIONAL SYSTEMS:									
CWF-3.	Existing Tectum	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-4.	Existing Tectum	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-5.	Existing Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-	ICP BOARD-MAX or CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	ICP BOARD-MAX or CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
CWF-6.	Existing Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	ICP BOARD-MAX or CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5

TABLE 5B: CEMENTITIOUS WOOF FIBER DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
Hybrid Systems:												
CWF-7.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-60.0
CWF-8.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-60.0
Conventional Systems:												
CWF-9.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA	SBS-AA or APP-TA	-60.0
CWF-10.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA	SBS-AA or APP-TA	-60.0

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

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Ply	Cap	
CWF-11.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3” GypTec Plate (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-12.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime	OMG Polymer GypTec with 3” GypTec Plate (Field W/D > 160 lbf)	1 per 1.78 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-13.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (minimum 1-inch embedment into deck) (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-14.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (minimum 1-inch embedment into deck) (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 5D: CEMENTITOUS WOOD FIBER DECKS –REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:							
CWF-15.	Existing Tectum	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CWF-16.	Existing Tectum	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CONVENTIONAL SYSTEMS:							
CWF-17.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Simplex Turbo Tube-Lok (Field W/D > 80 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-18.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA or APP-TA	-60.0
CWF-19.	Existing Tectum	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8”) (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA or APP-TA	-67.5

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

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:									
G-1.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ACFoam III, ENRGY 3, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-2.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA	M-OSFA	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
G-3.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-4.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-135.0
G-5.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-6.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-7.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch ACFoam II, Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-8.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch ACFoam II, Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:									
G-9.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-187.5
CONVENTIONAL SYSTEMS:									
G-10.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-127.5
G-11.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
G-12.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck	M-OSFA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-232.5

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

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
G-13.	Existing sound gypsum or gypsum plank	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-202.5
G-14.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
G-15.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0
G-16.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-135.0
G-17.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
G-18.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
G-19.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
G-20.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-187.5
G-21.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
G-22.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5
G-23.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0

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			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:												
G-24.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-60.0
G-25.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:												
G-26.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA	SBS-AA or APP-TA	-60.0
G-27.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA	(Optional) BP-AA	SBS-AA or APP-TA	-60.0

TABLE 6C: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Ply	Cap	
G-28.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3” GypTec Plate (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
G-29.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime	OMG Polymer GypTec with 3” GypTec Plate (Field W/D > 160 lbf)	1 per 1.78 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
G-30.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*
G-31.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2 ft^2	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 6D: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Ply	Cap	
SELF-ADHERING SYSTEMS:							
G-32.	Existing sound gypsum or gypsum plank	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
G-33.	Existing sound gypsum or gypsum plank	TRI-BUILT SA Nailbase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 88 lbf)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CONVENTIONAL SYSTEMS:							
G-34.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Simplex Turbo Tube-Lok (Field W/D > 80 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0*
G-35.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA or APP-TA	-60.0
G-36.	Existing sound gypsum or gypsum plank	TRI-BUILT FB Base Sheet 3 SQ	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 100 lbf)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA	SBS-AA 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 (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:									
R-1	Existing fully bonded BUR or modified bitumen roof cover	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer; or SECUROCK Gypsum-Fiber Roof Board.	HA	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
R-2	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer; or SECUROCK Gypsum-Fiber Roof Board.	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
R-3	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
R-4	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-5	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
R-6	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	A-PD, 6-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
R-7	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	A-PD, 6-inch o.c.	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-8	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-157.5
R-9	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

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 (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-10	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	M-PG1	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
R-11	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-12	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA	M-PG1	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
R-13	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-14	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-15	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-16	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	ICP BOARD-MAX	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
R-17	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-18	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	ICP BOARD-MAX	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
R-19	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-20	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	CR-20	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
R-21	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

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 (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-22	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck primed with Karnak 108 Asphalt Primer or Karnak 89 Sta-Tack Primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:									
R-23	Existing fully bonded BUR or modified bitumen roof cover	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-105.0
R-24	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-105.0
R-25	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-180.0
R-26	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-180.0
R-27	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-120.0
R-28	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
R-29	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA-H	(Optional) APP-TA	SBS-AA or APP-TA	-195.0
CONVENTIONAL SYSTEMS:									
R-30	Existing fully bonded BUR or modified bitumen roof cover	0.5-inch Structodek High Density Fiberboard or min. 0.75-inch Fesco Board (homogeneous)	HA	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
R-31	Existing fully bonded BUR or modified bitumen roof cover	0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
R-32	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.5-inch Structodek High Density Fiberboard, Min. 0.75-inch FescoBoard (homogeneous) or Min. 0.5-inch DuraBoard (homogeneous)	HA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
R-33	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck, Dens Deck Prime	HA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
R-34	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-35	Existing fully bonded, mineral surface modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-36	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-105.0
R-37	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-38	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
R-39	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck	A-PD, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-52.5
R-40	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-172.5
R-41	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck	A-PD, 6-inch o.c.	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-172.5
R-42	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-127.5
R-43	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck	M-OSFA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-157.5
R-44	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	M-PG1	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-45	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-46	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.5-inch Structodek High Density Fiberboard	M-PG1	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-47	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck	M-PG1	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-48	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	OB500	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0
R-49	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0
R-50	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-51	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	OB500	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-120.0
R-52	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	CR-20	None	N/A	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
R-53	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
R-54	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	ICP BOARD-MAX	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-55	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
R-56	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	APP-TA	(Optional) APP-TA	APP-TA	-232.5
R-57	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch Dens Deck	ICP BOARD-MAX	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0
R-58	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-195.0
R-59	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-180.0
R-60	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-225.0
R-61	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5
R-62	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck	CR-20	BP-AA	(Optional) BP-AA or APP-TA	SBS-AA or APP-TA	-240.0