NEMO|etc.
Certificate of Authorization #32455
353 Christian Street, Unit #13
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ENGINEER | TEST | CONSULT

P.E. EVALUATION REPORT (PEER)

Mule-Hide Products Co., Inc.
1195 Prince Hall Drive, Suite A
Beloit, WI 53511
(608) 365-3111

PEER-MHP-001.A.R15
FL10497-R15 (NON-HVHZ)
Date of Issuance: 03/28/2008
Revision 15: 10/14/2026

SCOPE:
This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida, and the Third-Party Evaluation Report acceptance by the Texas Department of Insurance. The documentation submitted has been reviewed by Robert Nieminen, P.E. for compliance with the **9th Edition (2026) Florida Building Code and 2024 International Building Code** sections noted herein.

DESCRIPTION: Mule-Hide Modified Bitumen Roof Systems (NON-HVHZ)

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

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle. Reference is made to the NEMO|etc. Directory of P.E. Evaluations to ascertain the status and/or current version of this PEER. If the PEER is not listed at the Nemo Directory, then it is no longer valid.

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be in its entirety.

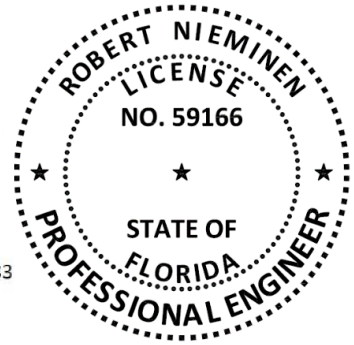
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 5, plus 60-pages of Appendix.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2026.10.14 '11:25:51 -04'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



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 PEERs 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. Robert Nieminen, P.E. is also Registered in the States of Connecticut (PE-24802), Texas (PE-96420) and Washington (PE-39055). Use of this PEER in support of permitting is at the discretion of the Authority Having Jurisdiction.
6. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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R15 FBC NON-HVHZ 2024 IBC

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Modified Bitumen Roof Systems
Product Approval Method: Method 1, Option D: Codified Material, Evaluation by Engineer

Compliance Statement: **Mule-Hide Modified Bitumen Roof Systems**, as produced by Mule-Hide Products Co., Inc., have demonstrated compliance with the following sections of the **Codes listed below** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2026 Florida Building Code	1504.3.1	Wind resistance	FM 4474, UL1897
	1504.7	Impact resistance	FM 4470, Section 4.6
	1507.10.2	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6163, D6164, D6222, D6509
2024 International Building Code	1504.4.1	Wind resistance	FM 4474, UL1897
	1504.7	Impact resistance	FM 4470, Section 4.6
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6163, D6164, D6222, D6509

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	PEER	PEER-PLYG-001.A.R32	02/29/2024
NEMO	PEER	PEER-MHCRL-002.A.R9	10/04/2023
FM Approvals (TST1867)	FM 4474	3056207	02/09/2016
FM Approvals (TST1867)	FM 4474	PR449651	09/25/2018
FM Approvals (TST1867)	FM 4474	3060914	06/20/2019
FM Approvals (TST1867)	FM 4474	PR460994	04/28/2023
NEMO (TST6049)	FM 4474	4a-CRL-19-LSWUS-01.A.R2	01/14/2020
NEMO (TST6049)	FM 4474	4a-CRL-19-LSWUS-02.A	03/05/2020
NEMO	Traceability	FBC PCL PLYG	06/26/2023
NEMO	Traceability	FPC PCL MSA	06/27/2023
NEMO	Traceability	FBC PCL AB	04/18/2025
UL LLC (QUA9625)	Traceability	ML File No. R13850	09/23/2015
UL LLC (QUA9625)	Quality Control	Service Confirmation (FL, PA, TX)	03/14/2024
UL LLC (QUA9625)	Quality Control	Florida BCIS	Current

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4. PRODUCT DESCRIPTION:

This PEER covers **Mule-Hide Modified Bitumen Roof Systems** installed in accordance with **Mule-Hide Products Co., Inc.** published installation instructions and the Limitations of Use herein.

TABLE 1: EVALUATED MEMBRANES

TYPE	PRODUCT	MATERIAL STANDARD			PLANT(S)
		REFERENCE	TYPE	GRADE	
BASE SHEETS	F/G Base Sheet	ASTM D4601	II	N/A	AL
	G2 Base Sheet	ASTM D4601	II	N/A	AL
	APP Torch Base Premier	ASTM D6509	N/A	N/A	FL
APP, SMOOTH-SURFACE MEMBRANES	APP Torch Base/Cap	ASTM D6222	I	S	FL
	APP Torch S Premier	ASTM D6222	I	S	FL
APP, GRANULE-SURFACE MEMBRANES	APP Torch G	ASTM D6222	I	G	FL
	APP Torch G Premier	ASTM D6222	I	G	FL
	APP Torch G FR Premier	ASTM D6222	I	G	FL
	APP Torch G KoolCap	ASTM D6222	I	G	NV
	APP Torch G FR KoolCap	ASTM D6222	I	G	NV
	SA-APP Cap Sheet	ASTM D6222	I	G	FL, TX
	SA-APP Cap Sheet FR	ASTM D6222	I	G	TX
	SA-APP KoolCap	ASTM D6222	I	G	NV
	SA-APP KoolCap FR	ASTM D6222	I	G	NV
SBS, SMOOTH-SURFACE MEMBRANES	Nail Base	ASTM D6163	I	S	FL
	SA Base Sheet	ASTM D6163	I	S	FL, TX
	SA Base Sheet (FR)	ASTM D6163	I	S	FL, TX
SBS, GRANULE SURFACE MEMBRANES	SA-SBS Cap Sheet	ASTM D6164	I	G	FL, TX
	SA-SBS Cap Sheet (FR)	ASTM D6164	I	G	FL, TX
	SA-SBS KoolCap	ASTM D6164	I	G	NV
	SA-SBS KoolCap FR	ASTM D6164	I	G	NV

5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.

5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).

5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction.

5.4 This PEER does not include evaluation of fire classification. Refer to **FBC or IBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC or IBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC or IBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.

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5.6 Refer to **FBC or IBC 1511** for requirements and limitations regarding recover installations.

5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**. For systems using LWG Fasteners and LWG Plates, the number of LWG Fasteners installed through the LWG Plate may be increased from the minimum noted in order to yield minimum required withdrawal resistance.

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

5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.

5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.

5.7.1 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC or IBC 1609** for determination of design wind loads.

5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC or IBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** or **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** for Zone 2/3 enhancements.

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

5.8 Corrosion Resistance – Saltwater Environments:

Fasteners and connectors, if applicable, in areas within 3,000 feet of a saltwater coastline shall demonstrate compliance with FBC 1711 to the satisfaction of the Authority Having Jurisdiction.

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6. INSTALLATION:

Mule-Hide Modified Bitumen Roof Systems shall be installed in accordance with **Mule-Hide Products Co., Inc.** published installation instructions, subject to the Limitations of Use noted herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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

9. QUALITY ASSURANCE ENTITY:

UL (QUA9625): (360) 817-5512; bsai.inspections@ul.com

Products listed in **Rule 61G20-3.001, F.A.C.**, shall be manufactured under a quality assurance program audited by an approved quality assurance entity. Refer to the Product Approval of the component manufacturer for components produced by a Product Manufacturer other than the report holder on Page 1 of this PEER.

- THE 60-PAGES THAT FOLLOW FORM PART OF THIS PEER -

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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	9
1B	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	10
1C	Wood	New or Reroof (Tear-Off)	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	11
1D	Wood	New, Reroof (Tear-Off) or Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	12
1E	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	12
1F	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	14
1G	Wood	New or Reroof (Tear-Off)	E-2	Mechanically Attached Base Sheet (nails), Bonded Roof Cover	17
1H	Wood	New, Reroof (Tear-Off) or Recover	E-2	Mechanically Attached Base Sheet (screws & plates), Bonded Roof Cover	19
1I	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	23
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	24
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	30
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	34
2D	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Membrane, Bonded Roof Cover	35
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	36
3B	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	43
4A	Deck with Lightweight concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	44
4B	Deck with Lightweight concrete	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	47
4C	Deck with Lightweight Concrete	New or Reroof (Tear-Off)	E-2	Mechanically Attached Thermal Barrier, Bonded Air or Vapor Barrier, LWC, Mechanically Attached Base Sheet, Bonded Roof Cover	49
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	50
5B	Cementitious wood fiber	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	51
5C	Cementitious wood fiber	Reroof (Tear-Off) or Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	52
5D	Cementitious wood fiber	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	53
5E	Cementitious wood fiber	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	53
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	54
6B	Existing gypsum	Reroof (Tear-Off) or Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	55
6C	Existing gypsum	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	56
6D	Existing gypsum	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	56
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	57
7B	Various	Recover	F	Non-Insulated, Bonded Roof Cover	60

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The following notes apply to the systems outlined herein:

1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction.

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

FASTENER/PLATE OPTIONS				
DECK TYPE	BY	FBC	PARTS	MINIMUM ENGAGEMENT
Wood	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD with Trufast 3" Metal Insulation Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
	Mule-Hide	N/A	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	
	OMG, Inc.	FL699	OMG #14 Heavy Duty with OMG 3 in. Round Metal Plate	
			OMG #14 Roofgrip with OMG AccuTrac Flat Bottom	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	
Steel	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
	Mule-Hide	N/A	Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	
	OMG, Inc.	FL699	OMG #14 Heavy Duty with OMG 3 in. Round Metal Plate	
			OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG AccuTrac Flat Bottom	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	
Structural Concrete	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD or Trufast ¼" Concrete Spike with Trufast 3" Metal Insulation Plate	Minimum 1-inch embedment. Fastener installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions
	Mule-Hide	N/A	Mule-Hide HDP Fastener or Tru-Spike with Mule-Hide 3" Insulation Plate	
	OMG, Inc.	FL699	OMG #14 Heavy Duty or CD-10 with OMG 3 in. Round Metal Plate	
			OMG #14 Roofgrip with OMG AccuTrac Flat Bottom	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	

3 RESERVED

4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.

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6 Unless otherwise noted, insulation adhesive application rates are as follows.
- ✓ Referenced ribbon or bead width is at the time of application (wet); the ribbons/beads shall expand as noted in the manufacturer's published instructions.
- ✓ If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
- ✓ When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
- ✓ The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

INSULATION ADHESIVE REFERENCES				
BY	FBC	ADHESIVE	REFERENCE	MINIMUM RATE
Mule-Hide	N/A	Helix Low-Rise Adhesive	Helix LRA (FULL)	Continuous ribbons, 4-inch o.c.
			Helix LRA (RIBBON)	Continuous RIBBONS, 12-inch o.c.
		Helix Low-Rise Tanks	Helix LR Tanks (FULL)	Continuous ribbons, 4-inch o.c.
			Helix LR Tanks (RIBBON)	Continuous RIBBONS, 12-inch o.c.
		Helix Max Low-Rise Adhesive	Helix Max LRA (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal./square
			Helix Max LRA (SPLATTER)	Splatter-applied at 0.5 gal/square (wet) = 4.7 lb/square (dry)
			Helix Max LRA (RIBBON)	Continuous RIBBONS, 12-inch o.c.
		Helix Max Low-Rise Adhesive – Dual Tank	Helix Max LRA-DT (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal/square
			Helix Max LRA-DT (RIBBON)	Continuous RIBBONS, 12-inch o.c.
H.B. Fuller Company	FL1800	Millennium One Step Foamable Adhesive	M-OSFA	Continuous RIBBONS, 12-inch o.c.
		Millennium PG-1 Pump Grade Adhesive	M-PG1	Continuous RIBBONS, 12-inch o.c.
OMG, Inc.	FL1608	OlyBond 500 Adhesive Fastener	OB500	Continuous 0.75 to 1-inch wide RIBBONS, 12-inch o.c. (PaceCart, SpotShot or Canister)
Generic, ASTM D312, Type IV	N/A	hot asphalt		Full coverage at 25-30 lbs/square

7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS				
ADHESIVE	INSULATION		MIN. TAPERED THICKNESS (IN)	MDP (PSF)
	LISTED PRODUCT	FBC		
Helix Max LRA	Any polyisocyanurate listed with adhesive herein	Various	0.5	-157.5
M-OSFA	Any polyisocyanurate listed with adhesive herein	Various	0.5	-157.5
M-PG1	Any polyisocyanurate listed with adhesive herein	Various	0.5	-157.5
OB500	Rmax Multi-Max FA3	FL11207	0.5	-45.0
OB500	Poly ISO 1	N/A	0.5	-187.5
OB500	Johns Manville ENRGY 3	FL4205	0.5	-315.0
OB500	Poly ISO 2	N/A	0.5	-487.5

8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29.

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

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

11 For mechanically attached components over existing decks, at the discretion of the Authority Having Jurisdiction, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105. For systems using LWG Fasteners and LWG Plates, the number of LWG Fasteners installed through the LWG Plate may be increased from the minimum noted in order to yield minimum required withdrawal resistance.

12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly to the satisfaction of the Authority Having Jurisdiction. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

12A Reference to "*Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel*" in Table 7A is intended to convey an as-tested condition whereby any loose-gravel that does not remain embedded in the asphalt flood coat after brushing and/or spudding be removed. The gravel that remains embedded in the asphalt flood coat remains.

13 Refer to FBC 1511 or IBC 1512 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation **(Note 17)**. The separator component shall be documented as meeting FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover in Recover applications.

14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.

14A For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer of Record and Authority Having Jurisdiction.

As a field QA measure of the pre-existent cellular lightweight concrete:

- Compressive strength testing shall be conducted in accordance with **ASTM C513** and shall yield an average result as per the system listing.
- Field withdrawal resistance testing in accordance with **Note 11** shall yield an average result as per the system listing.
- If question exists as to wind uplift performance of the pre-existent cellular lightweight concrete, or adhesion to the LWC surface, field uplift testing in accordance with **Note 12** is recommended.

All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction

15 For bonded membrane applications, unless otherwise noted, refer to the following.

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MEMBRANE / ADHESIVE COMBINATIONS			
REFERENCE	**LAYER**	**MATERIAL**	**APPLICATION**
BP-AA	Base Ply	One or more plies F/G Base Sheet, G2 Base	Hot Asphalt at 20-40 lbs/square
APP-SA	Cap Ply	SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA APP KoolCap, SA APP KoolCap FR	Self-Adhering
	Note:	***Unless otherwise noted, permissible membrane substrates for APP-SA are limited to the SBS-SA Base Ply options herein, Nail Base with a poly-film top surface.***	
APP-TA	Base Ply or Ply	One or more plies APP Torch Base Premier, APP Torch S Premier, APP Torch Base/Cap	Torch-Applied
	Cap Ply	APP Torch S Premier, APP Torch G Premier, APP Torch G FR Premier, APP Torch Base/Cap, APP Torch G, APP Torch G KoolCap, APP Torch G FR KoolCap	
SBS-SA	Base Ply	One or more plies SA Base Sheet or SA Base Sheet (FR)	Self-Adhering
	Cap Ply	SA-SBS Cap Sheet, SA-SBS Sheet (FR)	
	Note:	***Unless otherwise noted, permissible membrane substrates for SBS-SA are limited to the SBS-SA Base Ply options herein or Nail Base with a poly-film top surface.***	
SBS-TA	Base Ply or Ply	One or more plies Nail Base	Torch-Applied

15A DETEC Systems "TruGround® Conductive Primer" may be applied to DensDeck Prime and SECUROCK Gypsum-Fiber Roof Board with no adverse effect on system wind uplift performance.

16 **Thermal Barrier and/or Air or Vapor Barrier Options:**

16A Structural Concrete Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION					
OPTION #	**PRIMER**	**VAPOR BARRIER**		**INSULATION ADHESIVE PER TABLE 3A (NOTES 6,7,8)**	**MDP (PSF)**
		TYPE	**APPLICATION**		
C-VB-1.	702 Primer, 702 LV Primer, CAV-GRIP Primer or AeroWeb	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA (RIBBONS, 12-inch o.c.)	-157.5
C-VB-2.	702 Primer, 702 LV Primer, CAV-GRIP Primer or AeroWeb	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA-DT (RIBBONS, 12-inch o.c.)	-172.5
C-VB-3.	702 Primer, 702 LV Primer, CAV-GRIP Primer or AeroWeb	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA or Helix Max LRA-DT (RIBBONS, 6-inch o.c.)	-270.0
C-VB-4.	CAV-GRIP Primer or AeroWeb	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA (FULL COVERAGE, 1 gal/square)	-427.5
C-VB-5.	ASTM D41	Carlisle SynTec SureMB 90TG or 120TG Base	Torch-applied	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-307.5
C-VB-6.	ASTM D41	Carlisle SynTec SureMB 90TG or 120TG Base	Torch-applied	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-495.0
C-VB-7.	121 Asphalt Primer	APP Torch S Premier or APP Torch Base/Cap	Torch-applied	M-OSFA, M-PG-1 or OB500, 12-inch o.c.	-135.0
C-VB-8.	121 Asphalt Primer	SA SBS Cap Sheet	Self-Adhering	M-OSFA, 12-inch o.c.	-157.5
C-VB-9.	121 Asphalt Primer	APP Torch S Premier or APP Torch Base/Cap	Torch-applied	M-OSFA, M-PG-1 or OB500, 6-inch o.c.	-185.0
C-VB-10.	121 Asphalt Primer	SA Base Sheet or SA Base Sheet (FR)	Self-Adhering	M-OSFA, M-PG-1 or OB500, 12-inch o.c.	-240.0

16B For System Types B-1, B-2, C-1, C-2, D-1 or D-2, F5 Air and Vapor Barrier may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to FM Loss Prevention Data Sheet 1-29 for design and installation recommendations and limitations.

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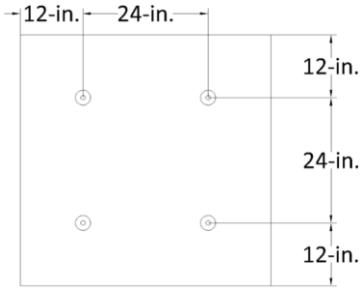
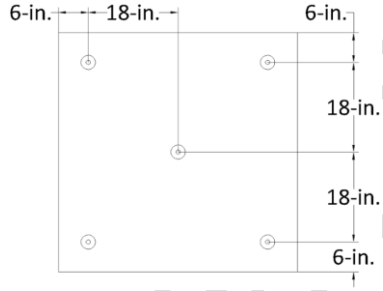
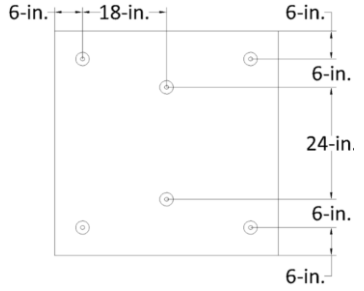
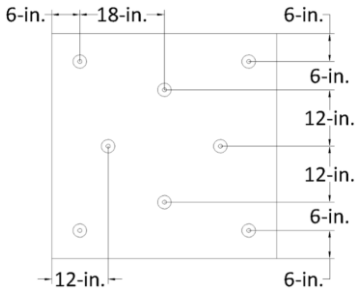
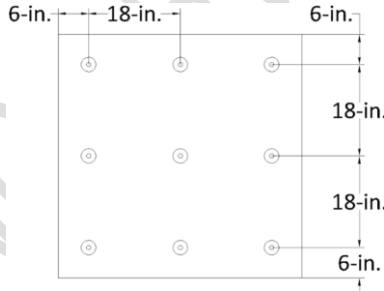
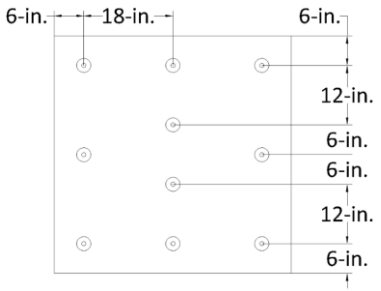
17 Insulation Attachment:

17A Unless otherwise noted, insulation may be any one layer or combination of FBC or IBC Approved (Local or Statewide) board(s) that meet FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover.

17B For System Types B-1, C-1 or C-2, optional one or more layer(s) of FBC Approved board-stock roof insulation may be installed atop the substrate prior to mechanical attachment of the subsequent top layer, with no adverse effect on the MDP performance limitation.

17C Preliminary insulation attachment: Unless otherwise noted, use Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29.

17D Unless otherwise noted, insulation or coverboard attachment patterns for Type B-1, Type B-2 and Type C-1 systems are as outlined below.

INSULATION ATTACHMENT PATTERNS – 4X4 FT BOARDS		
 **1 per 4.0 ft² (4 per board)**	 **1 per 3.2 ft² (5 per board)**	 **1 per 2.7 ft² (6 per board)**
 **1 per 2.0 ft² (8 per board)**	 **1 per 1.8 ft² (9 per board)**	 **1 per 1.6 ft² (10 per board)**

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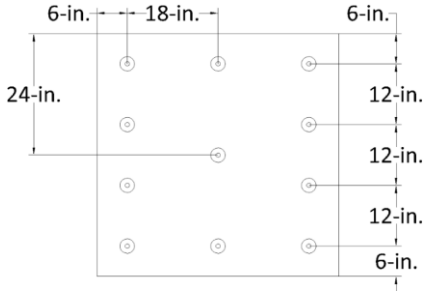
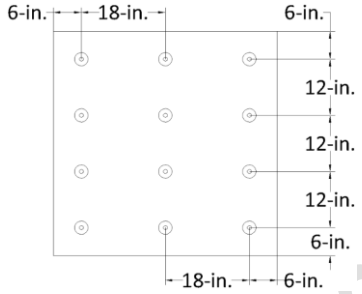
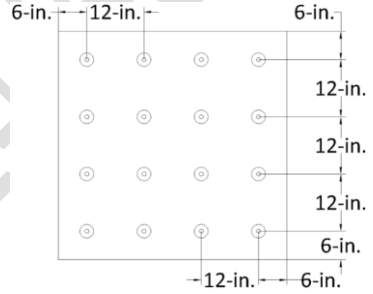
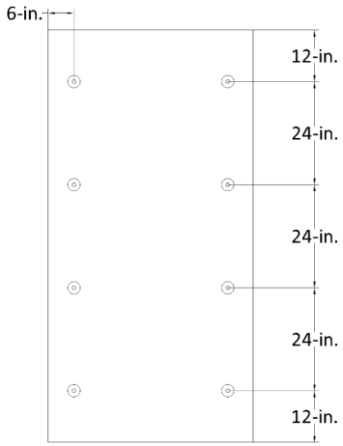
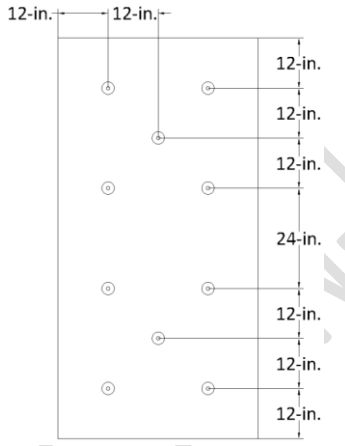
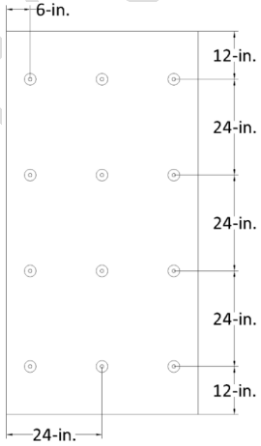
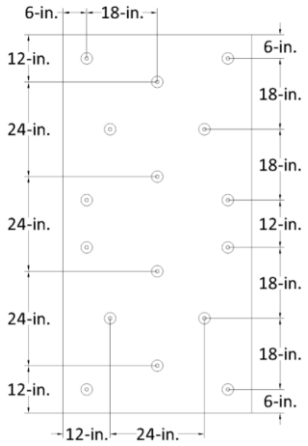
INSULATION ATTACHMENT PATTERNS – 4X4 FT BOARDS		
		
1 per 1.45 ft² (11 per board)	**1 per 1.3 ft² (12 per board)**	**1 per 1.0 ft² (16 per board)**

INSULATION ATTACHMENT PATTERNS – 4X8 FT BOARDS			
			
1 per 4.0 ft² (8 per board)	**1 per 3.2 ft² (10 per board)**	**1 per 2.7 ft² (12 per board)**	**1 per 2.0 ft² (16 per board)**

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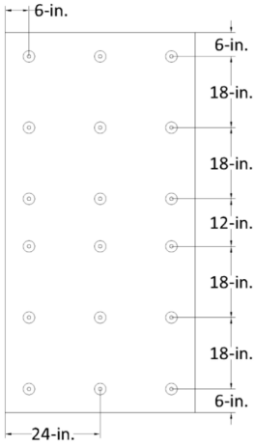
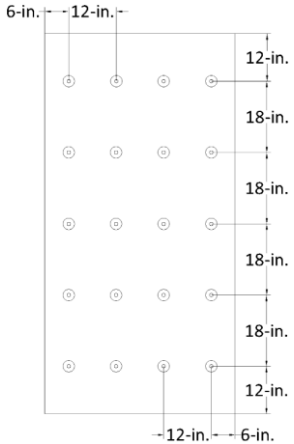
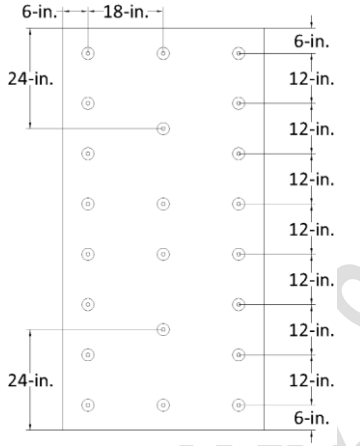
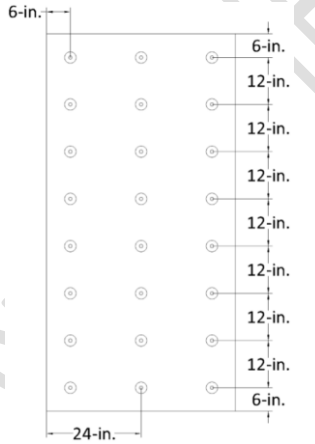
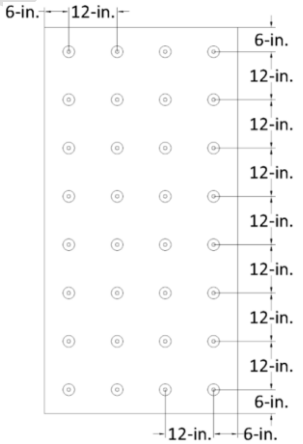
Insulation Attachment Patterns – 4x8 ft Boards				
				
1 per 1.8 ft² (18 per board)	**1 per 1.6 ft² (20 per board)**	**1 per 1.45 ft² (22 per board)**	**1 per 1.3 ft² (24 per board)**	**1 per 1.0 ft² (32 per board)**

18 The following products are interchangeable within the scope of this PEER:

Acceptable Alternates				
Sub-Category	**By**	**Listed Product Herein**	**Alternate**	**FBC**
Roofing Insulation	Mule-Hide	Poly ISO 1	H-Shield or H-Shield NH	FL5968
		Poly ISO 1-DWD	H-Shield CG or H-Shield CG NH	
		Poly ISO 1-HD	H-Shield HD	
		Poly ISO 2	ACFoam II	FL17989, FL41807
	Georgia-Pacific Gypsum, LLC	DensDeck Prime	DensDeck StormX Prime Roof Board	FL1250
Fasteners & Plates	Mule-Hide	LWG Fastener	Trufast Versa-Fast Fastener	FL4500
		Mule-Hide Drill Point Fastener	Trufast #12 DP	
		Mule-Hide HDP Fastener	Trufast #14 HD	
		Mule-Hide EHD Fastener	Trufast #15 EHD	
		Tru-Spike Fastener	Trufast ¼" Concrete Spike	
		LWG Plate	Trufast Versa-Fast Metal Plate	
		Mule-Hide 3" Insulation Plate	Trufast 3" Metal Insulation Plate	

19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC or IBC 1609 for determination of design wind loads. (Notes 9 and 10)

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TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
TORCH-APPLIED BASE PLY:									
W-1	7/16-inch APA rated OSB; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2	Helix LRA or Helix LR Tanks (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
W-2	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2	Helix LRA or Helix LR Tanks (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-67.5
W-3	7/16-inch APA rated OSB; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
W-4	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-67.5
SELF-ADHERING BASE PLY:									
W-5	7/16-inch APA rated OSB; 2 ft spans	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2	Helix LRA or Helix LR Tanks (RIBBON)	(Optional) Additional layer(s) base insulation	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
W-6	7/16-inch APA rated OSB; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2	Helix LRA or Helix LR Tanks (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-45.0*
W-7	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2	Helix LRA or Helix LR Tanks (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-67.5
W-8	7/16-inch APA rated OSB; 2 ft spans	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-9	7/16-inch APA rated OSB; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-45.0*
W-10	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-67.5
W-11	Min. 15/32-inch APA rated CDX plywood	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY-3 or Multi-Max FA3	M-OSFA, OB500	(Optional) additional layers(s) of base insulation	M-OSFA, OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-12	Min. 19/32-inch APA rated CDX plywood	Min. 1.5-inch Poly ISO 1 or ENRGY 3	Dekfast DF-#12-PH3 with Dekfast PLT-H-2-7/8 or Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-60.0
W-13	Min. 15/32-inch APA rated CDX plywood	Min. 2-inch Poly ISO 1, Poly ISO 2, ENRGY-3, EnergyGuard Polyiso Insulation or Multi-Max FA3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 HD with OMG 3" Galvalume Steel Plates or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-75.0

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TABLE 1C: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE B-3: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT-APPLIED OR TORCH-APPLIED BASE PLY:												
W-14	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA	(Optional) BP-AA	APP-TA	-60.0
W-15	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA, APP-TA	APP-TA	-60.0
W-16	Min. 15/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at four (4), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA, APP-TA	APP-TA	-67.5
W-17	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA, APP-TA	APP-TA	-90.0
SELF-ADHERING BASE PLY:												
W-18	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0

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TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-3: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT-APPLIED OR TORCH-APPLIED BASE PLY:												
W-19	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA, APP-TA	APP-TA	-52.5
W-20	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet or G2 Base	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ENRGY-3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA, APP-TA	APP-TA	-82.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
ASPHALT-APPLIED OR TORCH-APPLIED BASE PLY:									
W-21	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only)	1 per 2.0 ft²	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA,APP-TA	APP-TA	-30.0
W-22	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only)	1 per 1.8 ft²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-45.0
W-23	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only)	1 per 1.0 ft²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-75.0
W-24	Min. 19/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3 with Dekfast PLT-H-2-7/8	1 per 1.3 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-82.5
SELF-ADHERING BASE PLY:									
W-25	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1 or Poly ISO 2	Note 2 (#14 only)	1 per 2.7 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-30.0

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
W-26	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only)	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-30.0
W-27	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only) or OMG #14 Roofgrip with OMG 3 in. Round Metal Plate or OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 2.0 ft²	SBS-SA	None	SBS-SA	-45.0
W-28	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DensDeck Prime	Note 2 (#14 only) or OMG #14 Roofgrip with OMG 3 in. Round Metal Plate	1 per 2.0 ft²	SBS-SA	None	SBS-SA	-45.0
W-29	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 1-inch Poly ISO 2, ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Note 2 (#14 only)	1 per 1.6 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
W-30	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only)	1 per 1.0 ft²	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-60.0
W-31	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, ISO 95+ GL, Multi-Max FA3 or Ultra-Max	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate*	1 per 1.3 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5*
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 180 lbf.*							
W-32	Min. 19/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, ISO 95+ GL, Multi-Max FA3 or Ultra-Max	Dekfast DF-#12-PH3 with Dekfast PLT-H-2-7/8 or PLT-R-3, OMG #14 Roofgrip with OMG 3 in. Galvalume Plate (non-ribbed) or OMG AccuTrac Plate or Mule-Hide Drill-Point with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5*

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TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	Deck (Note 1)	Insulation Layer(s) (Note 13, Note 17)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
ASPHALT-APPLIED OR TORCH-APPLIED BASE PLY:									
W-33	Min. 19/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	F/G Base Sheet or G2 Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-52.5
W-34	Min. 19/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Roofgrip with OMG AccuTrac Flat Bottom	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
W-35	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*							
W-36	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	APP-TA	APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*							
W-37	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	F/G Base Sheet or G2 Base	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-75.0
W-38	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-75.0
W-39	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	APP Torch Base Premier	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-75.0

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TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	**Deck** (Note 1)	**Insulation Layer(s)** (Note 13, Note 17)		**Base Sheet**			**Roof Cover** (Note 15)		**MDP (psf)**
		Type	**Attach**	**Type**	**Fasten** (Note 11)	**Attach**	**Base Ply**	**Cap Ply**	
W-40	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*							
W-41	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	APP-TA	APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*							
W-42	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	F/G Base Sheet or G2 Base	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-90.0
W-43	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-90.0
W-44	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	APP Torch Base Premier	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-90.0
W-45	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-90.0
W-46	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-90.0
W-47	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*							

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TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	Deck (Note 1)	Insulation Layer(s) (Note 13, Note 17)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
W-48	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	APP-TA	APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*							
W-49	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-120.0
W-50	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-120.0
SELF-ADHERING BASE PLY:									
W-51	Min. 19/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	Note 2 (#14 only)	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-52.5*
W-52	Min. 19/32-inch APA rated CDX plywood	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Roofgrip with OMG AccuTrac Flat Bottom	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0*
W-53	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	One or more layers, any combination	Loose-laid	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*							

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TABLE 1G: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (NAILS), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
NO BASE PLY:							
W-54	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-45.0
W-55	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	SBS-SA, APP-SA	-45.0
W-56	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	APP Torch Base Premier	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-45.0
W-57	Min. 15/32-inch APA rated CDX plywood	Nail Base	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-52.5
W-58	Min. 15/32-inch APA rated CDX plywood	Nail Base	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	SBS-SA, APP-SA	-52.5
W-59	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-52.5
W-60	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-60.0
W-61	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	None	SBS-SA, APP-SA	-60.0
W-62	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-67.5
W-63	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-67.5
W-64	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails.	4-inch o.c. at min. 4-inch lap and 4-inch o.c. at four (4), equally spaced, staggered center rows	None	SBS-SA, APP-SA	-97.5
W-65	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-112.5
W-66	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails. *Note: Tin caps are to be primed with 121 Asphalt Primer or ASTM D41 primer.*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	None	SBS-SA, APP-SA	-112.5
TORCH-APPLIED BASE PLY:							
W-67	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0

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TABLE 1G: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (NAILS), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
W-68	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	APP Torch Base Premier	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	APP-TA	APP-TA	-45.0
W-69	Min. 15/32-inch APA rated CDX plywood	Nail Base	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
W-70	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	APP-TA	APP-TA	-52.5
W-71	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
W-72	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at four (4), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5
W-73	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at four (4), equally spaced, staggered center rows	APP-TA	APP-TA	-67.5
W-74	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-112.5
SELF-ADHERING BASE PLY:							
W-75	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-45.0
W-76	Min. 15/32-inch APA rated CDX plywood	Nail Base	Original Simplex Cap Nails *(1-inch metal head diameter, 11 gauge x min. 1.25-inch long annular grooved shank)*	6-inch o.c. at min. 3-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-52.5
W-77	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0
W-78	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails.	4-inch o.c. at min. 4-inch lap and 4-inch o.c. at four (4), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-97.5
W-79	Min. 19/32-inch APA rated CDX plywood	Nail Base	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails. *Note: Tin caps are to be primed with 121 Asphalt Primer or ASTM D41 primer.*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at four (4), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-112.5

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TABLE 1H: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (SCREWS & PLATES), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap	
NO BASE PLY:							
W-80	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	APP-TA	-52.5
W-81	Min. 19/32-inch APA rated CDX plywood	Nail Base	OMG #12 Roofgrip with OMG AccuTrac Flat Bottom	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	APP-TA	-60.0
W-82	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	SBS-SA, APP-SA, APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*					
W-83	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*					
W-84	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-75.0
W-85	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-75.0
W-86	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*					
W-87	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	None	APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*					
W-88	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-90.0
W-89	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	None	APP-TA	-90.0

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TABLE 1H: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (SCREWS & PLATES), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap	
W-90	Min. 15/32-inch APA rated CDX plywood	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-90.0
W-91	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-90.0
W-92	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*					
W-93	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	None	APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*					
W-94	Min. 15/32-inch APA rated CDX plywood	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	None	APP-TA	-120.0
W-95	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	None	APP-TA	-120.0
TORCH-APPLIED BASE PLY:							
W-96	Min. 19/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
W-97	Min. 19/32-inch APA rated CDX plywood	Nail Base	OMG #12 Roofgrip with OMG AccuTrac Flat Bottom	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
W-98	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*					
W-99	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	APP-TA	APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*					

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TABLE 1H: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (SCREWS & PLATES), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap	
W-100	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-75.0
W-101	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Note 2 (#14 only)	10-inch o.c. at min. 4-inch lap and 10-inch o.c. at three (3), equally spaced, staggered center rows	APP-TA	APP-TA	-75.0
W-102	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*					
W-103	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	9-inch o.c. at min. 2-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	APP-TA	APP-TA	-90.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 159 lbf.*					
W-104	Min. 15/32-inch APA rated CDX plywood	F/G Base Sheet, G2 Base or Nail Base	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-90.0
W-105	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	Note 2 (#14 only)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced, staggered center rows	APP-TA	APP-TA	-90.0
W-106	Min. 15/32-inch APA rated CDX plywood	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty (min. 1-5/8-inch long) with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-90.0
W-107	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	APP-TA	APP-TA	-90.0
W-108	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*					
W-109	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB or min. 15/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered center rows	APP-TA	APP-TA	-105.0
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 103 lbf.*					

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TABLE 1H: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET (SCREWS & PLATES), BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap	
W-110	Min. 15/32-inch APA rated CDX plywood	Nail Base	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-120.0
W-111	Min. 15/32-inch APA rated CDX plywood	APP Torch Base Premier	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at five (5), equally spaced, staggered center rows	APP-TA	APP-TA	-120.0
W-112	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 1 screws per plate in center hole*	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced center rows	SBS-TA, APP-TA	APP-TA	-127.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 141 lbf.*					
W-113	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	APP Torch Base Premier	LWG Fastener (min. ¾" penetration) with LWG Plate; 1 screws per plate in center hole*	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced center rows	APP-TA	APP-TA	-127.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 141 lbf.*					
SELF-ADHERING BASE PLY:							
W-114	Min. 19/32-inch APA rated CDX plywood	Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-52.5*
W-115	Min. 19/32-inch APA rated CDX plywood	Nail Base	OMG #12 Roofgrip with OMG AccuTrac Flat Bottom	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0*
W-116	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 2 screws per plate installed 180° into the holes of the plate, parallel to the width-direction of the sheet*	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-67.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 199 lbf.*					
W-117	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 19/32-inch APA rated plywood	Nail Base	LWG Fastener (min. ¾" penetration) with LWG Plate; 1 screws per plate in center hole* *Note: LWG Plates shall be primed with 121 Asphalt Primer or ASTM D41 primer.*	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at four (4), equally spaced center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-127.5
	Note:	**For re-roof or recover construction, field withdrawal resistance testing (Note 11) shall yield minimum 141 lbf.*					

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TABLE 1I: 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)
			Joint Treatment	Base Ply	Ply	Cap Ply	
SELF-ADHERING BASE PLY:							
W-118	Min. 15/32-inch APA rated CDX plywood	None	None	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-90.0
W-119	Min. 15/32-inch APA rated CDX plywood	121 Asphalt Primer	None	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-97.5
W-120	Nominal 1-in. T&G plank, SYP decking	None	None	SBS-SA	(Optional) SBS-SA	SBS-SA or APP-SA	-150.0

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:										
S-1.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 2, Poly ISO 1 or ENRGY 3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
S-2.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 2, Poly ISO 1 or ENRGY 3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 4.0 ft²	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
S-3.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1 or ENRGY 3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-90.0
S-4.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 4.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-5.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 3.2 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-6.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG 3" Galvalume Ribbons Plates	1 per 1.6 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-45.0

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-7.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener, Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-52.5
S-8.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-9.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-10.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-67.5
S-11.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-82.5
S-12.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-105.0

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-13.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 4.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (RIBBON), Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-14.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 3.2 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (RIBBON), Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-15.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG 3" Galvalume Ribbons Plates	1 per 1.6 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-45.0
S-16.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener, Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-52.5
S-17.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-18.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-67.5

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-19.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 2, EnergyGuard Polyiso Insulation, ENRGY 3 or Multi-Max FA3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG 3" Galvalume Ribbons Plates or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board	M-OSFA or M-PG1	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-45.0
S-20.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip , #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener , Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-52.5
S-21.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 2, EnergyGuard Polyiso Insulation, ENRGY 3 or Multi-Max FA3	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG 3" Galvalume Ribbons Plates or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-45.0
S-22.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip , #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener , Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-52.5
SELF-ADHERING BASE PLY:										
S-23.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 4.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
S-24.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 3.2 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-25.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener, Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard or min. 1-inch Poly ISO 1-DWD or ACFoam III	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
S-26.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
S-27.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Primer or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
S-28.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5
S-29.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-82.5
S-30.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Steel: Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA or Helix LR Tanks (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-105.0

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TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-31.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 4.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (RIBBON), Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
S-32.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide HDP with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 3.2 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (RIBBON), Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
S-33.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener, Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard or min. 1-inch Poly ISO 1-DWD or ACFoam III	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
S-34.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
S-35.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Mule-Hide HDP or Tru-Spike with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5
S-36.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip , #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener , Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard or min. 1-inch Poly ISO 1-DWD or ACFoam III	M-OSFA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-37.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip , #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener , Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard or min. 1-inch Poly ISO 1-DWD or ACFoam III	M-PG1	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5
S-38.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip , #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener , Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard or min. 1-inch Poly ISO 1-DWD or ACFoam III	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:									
S-39.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.75-inch JM Fesco Board (homogeneous) or min. 1.5-inch JM Fesco Board (laminated)	Note 2 or OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Ribbed Galvalume Plate	1 per 2.0 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
S-40.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or G-P FiberBase HD or HD Excel	Note 2 or OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Ribbed Galvalume Plate	1 per 4.0 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
S-41.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 or OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Ribbed Galvalume Plate	1 per 4.0 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*

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TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-42.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 1.5" thick, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or PTL-R-3 or OMG #12 Roofgrip, #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate, 3 in. Ribbed Galvalume Plate (Flat) or AccuTrac Flat Bottom Plate or Mule-Hide Drill-Point, Mule-Hide HDP or Mule-Hide EHD with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-52.5
S-43.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 1.5" thick, loose laid	Min. 0.25-inch DensDeck Prime	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or PTL-R-3 or OMG #12 Roofgrip, #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate, 3 in. Ribbed Galvalume Plate (Flat) or AccuTrac Flat Bottom Plate or Mule-Hide Drill-Point, Mule-Hide HDP or Mule-Hide EHD with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
S-44.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds, 6" o.c.	One or more layers, any combination, min. 1.5" thick, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or PTL-R-3 or OMG #12 Roofgrip, #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate, 3 in. Ribbed Galvalume Plate (Flat) or AccuTrac Flat Bottom Plate or Mule-Hide Drill-Point, Mule-Hide HDP or Mule-Hide EHD with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
S-45.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OMG #14 Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.8 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-75.0
S-46.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3 (steel only) or Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Mule-Hide Drill Point Fastener or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-82.5
SELF-ADHERING BASE PLY:									
S-47.	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 2, ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-R-3, OMG #12 Roofgrip, #14 Roofgrip or #15 Roofgrip with OMG 3 in. Ribbed Galvalume Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Plate or Mule-Hide Drill Point Fastener, Mule-Hide HDP Fastener or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-30.0
S-48.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 2, ACFoam III, Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 2.7 ft²	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-30.0

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-49.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DensDeck Prime	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or Mule-Hide HDP or Mule-Hide EHD with Mule-Hide 3" Insulation Plate	1 per 2.7 ft²	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-37.5*
S-50.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or AccuTrac Flat Bottom Plate or Mule-Hide HDP or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plate	1 per 2.7 ft²	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-37.5*
S-51.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	Note 2	1 per 2.7 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-37.5*
S-52.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, loose laid	Min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard	Dekfast DF-#14-PH3 with Dekfast PLT-R-3, OMG #14 Roofgrip with OMG 3" Round Metal Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Flat Bottom Plate or Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-37.5
S-53.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1	OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with AccuTrac Flat Bottom Plate or Mule-Hide Drill-Point (steel only) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
S-54.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3 (steel only) or DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate (non-ribbed) or Mule-Hide Drill-Point (steel only) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA, APP-TA	-45.0*
S-55.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 only) or OMG #14 Roofgrip with OMG 3 in. Round Metal Plate or OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 2.0 ft²	SBS-SA	None	SBS-SA	-45.0
S-56.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DensDeck Prime	Note 2 (#14 only) or OMG #14 Roofgrip with OMG 3 in. Round Metal Plate	1 per 2.0 ft²	SBS-SA	None	SBS-SA	-45.0
S-57.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or AccuTrac Flat Bottom Plate or Mule-Hide HDP or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plate	1 per 1.8 ft²	SBS-SA	(Optional when using torch-applied Cap Ply) SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-45.0

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-58.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DensDeck Prime	OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or Mule-Hide HDP or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plate	1 per 1.8 ft²	SBS-SA	(Optional when using torch-applied Cap Ply) APP-TA	SBS-SA, APP-SA, APP-TA	-45.0
S-59.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, loose laid	Min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard	Dekfast DF-#14-PH3 with Dekfast PLT-R-3, OMG #14 Roofgrip with OMG 3" Round Metal Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Flat Bottom Plate or Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-45.0
S-60.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#15-PH3 with Dekfast PLT-R-3, OMG #15 Roofgrip with OMG 3" Round Metal Plate, OMG 3 in. Ribbed Galvalume Plate (Flat) or OMG AccuTrac Flat Bottom Plate or Mule-Hide EHD Fastener with Mule-Hide 3" Insulation Plate	1 per 1.45 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-45.0
S-61.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1 or Poly ISO 2	Dekfast DF-#12-PH3 (steel only) or DF-#14-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-60.0
S-62.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3 (steel only) or DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate (non-ribbed) or Mule-Hide Drill-Point (steel only) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.6 ft²	SBS-SA	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
S-63.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, ISO 95+ GL, Multi-Max FA3 or Ultra-Max	Dekfast DF-#12-PH3 (steel only) or DF-#14-PH3 with Dekfast PLT-H-2-7/8 or PLT-R-3, OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate (non-ribbed) or OMG AccuTrac Plate or Mule-Hide Drill-Point (steel only) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-67.5*
S-64.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#12-PH3 (steel only) or DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG 3 in. Galvalume Plate (non-ribbed) or Mule-Hide Drill-Point (steel only) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	1 per 1.3 ft²	SBS-SA	(Optional) SBS-TA or APP-TA	APP-TA	-72.5
S-65.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8 or OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or AccuTrac Flat Bottom Plate or Mule-Hide HDP or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-90.0

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-66.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1-inch, loose laid	Min. 0.25-inch DensDeck Prime	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip or #15 Roofgrip with OMG 3 in. Round Metal Plate or Mule-Hide HDP or Mule-Hide EHD with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-97.5

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

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:									
S-67.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-45.0*
S-68.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	F/G Base Sheet or G2 Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-52.5
S-69.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-52.5
S-70.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG Flat Bottom Plates (square)	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
S-71.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	APP Torch Base/Cap or APP Torch S Premier	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or OMG Roofgrip #14 OMG Flat Bottom Plates	12-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-112.5
SELF-ADHERING BASE PLY:									
S-72.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Nail Base	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8, OMG #14 Roofgrip with OMG Flat Bottom Plates (square) or Mule-Hide HDP with Mule-Hide 3" Insulation Plate	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-52.5*
S-73.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Nail Base	OMG #12 Roofgrip (steel only) or OMG #14 Heavy Duty with OMG Flat Bottom Plates (square)	12-inch o.c. at min. 4-inch lap and 12-inch o.c. at two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0*

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TABLE 2D: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE MEMBRANE, BONDED ROOF COVER									
System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base Membrane			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
TORCH-APPLIED:									
S-74.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Prelim. Attached	APP Torch S Premier	Dekfast DF-#15-PH3 with PLT-R-2-3/8-6B	12-inch o.c. within the 5-inch wide, torch-sealed side lap	(Optional) SBS-TA, APP-TA	APP-TA	-82.5
S-75.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	APP Torch Base/Cap or APP Torch S Premier	Mule-Hide EHD (steel only) or Mule-Hide HDP (concrete only) with Mule-Hide 2.4" Seam Plate	12-inch o.c. within the 6-inch wide, torch-sealed side lap	(Optional) SBS-TA, APP-TA	APP-TA	-82.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
TORCH APPLIED BASE PLY:										
C-1	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (RIBBON)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA (RIBBON)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-195.0
C-2	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.25-inch DensDeck Prime	Helix LRA (FULL)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5
C-3	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix LRA (FULL)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-322.5
C-4	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (RIBBON)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LR Tanks (RIBBON)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-195.0
C-5	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.25-inch DensDeck Prime	Helix LR Tanks (FULL)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5
C-6	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix LR Tanks (FULL)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-315.0
C-7	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-157.5
C-8	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5
C-9	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA (SPLATTER)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5

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TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER REFER TO NOTE 16 FOR AIR OR VAPOR BARRIER OPTIONS										
System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-10	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-157.5
C-11	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-187.5
C-12	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (SPLATTER)	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-187.5
C-13	Structural concrete	None	Min. 1-inch Poly ISO 1, ACFoam III, Poly ISO 2 or Poly ISO 1-DWD	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-187.5
C-14	Structural concrete	None	Min. 1.5-inch Poly ISO 1-DWD	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-202.5
C-15	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-282.5
C-16	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board	OB500	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-322.5
C-17	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
C-18	Structural concrete	121 Asphalt Primer	Min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	None	N/A	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-277.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-19	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 2, ACFoam III, Poly ISO 1, Poly ISO 1-DWD, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-290.0
C-20	Structural concrete	121 Asphalt Primer	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	None	N/A	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-285.0
C-21	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 2, ACFoam III, Poly ISO 1, Poly ISO 1-DWD, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-480.0
C-22	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 2, ACFoam III, Poly ISO 1, Poly ISO 1-DWD, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck Prime	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-480.0
C-23	Structural concrete	121 Asphalt Primer	Min. 0.25-inch DensDeck Prime	Hot asphalt	None	N/A	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-510.0
SELF-ADHERING BASE PLY TO INSULATION:										
C-24	Structural concrete	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (RIBBON)	(Optional) Additional layer(s) base insulation	Helix LRA (RIBBON)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-322.5
C-25	Structural concrete	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	(Optional) Additional layer(s) base insulation	Helix LRA (FULL)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-412.5
C-26	Structural concrete	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (RIBBON)	(Optional) Additional layer(s) base insulation	Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-315.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-27	Structural concrete	None	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-157.5
C-28	Structural concrete	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) additional layers(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-277.5
C-29	Structural concrete	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	(Optional) additional layers(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (FULL)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-427.5
C-30	Structural concrete	None	Min. 1.5-inch Insulfoam IX	OB500	(Optional) additional layers of base insulation	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-120.0
C-31	Structural concrete	None	Min. 1.5-inch Poly ISO 2	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-122.5
C-32	Structural concrete	None	Min. 1.5-inch ENRGY 3	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-127.5
C-33	Structural concrete	None	Min. 1.5-inch Poly ISO 1	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-150.0
C-34	Structural concrete	None	Min. 1-inch Poly ISO 1 or Poly ISO 2	OB500	Min 1.5-inch ACFoam III or Poly ISO 1-DWD	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-187.5
C-35	Structural concrete	None	Min. 1.5-inch ACFoam III or Poly ISO 1-DWD	OB500	Min 1.5-inch ACFoam III or Poly ISO 1-DWD	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-202.5
C-36	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3 or Multi-Max FA3	Hot asphalt	(Optional) additional layers(s) of base insulation	Hot asphalt	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-480.0
SELF-ADHERING BASE PLY TO COVERBOARD:										
C-37	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (RIBBON)	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix LRA (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-165.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-38	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (RIBBON)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LRA (RIBBON)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-195.0
C-39	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.25-inch DensDeck Prime	Helix LRA (FULL)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-202.5
C-40	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.25-inch DensDeck Prime	Helix LRA (FULL)	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-282.5
C-41	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix LRA (FULL)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-285.0
C-42	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LRA (FULL)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix LRA (FULL)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-322.5
C-43	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (RIBBON)	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-165.0
C-44	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (RIBBON)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix LR Tanks (RIBBON)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-195.0
C-45	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.25-inch DensDeck Prime	Helix LR Tanks (FULL)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA	-202.5
C-46	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.25-inch DensDeck Prime	Helix LR Tanks (FULL)	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-282.5
C-47	Structural concrete	None	One or more layer(s), min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix LR Tanks (FULL)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-285.0
C-48	Structural concrete	None	One or more layer(s), Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Poly ISO 2	Helix LR Tanks (FULL)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix LR Tanks (FULL)	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-315.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-49	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-157.5
C-50	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-277.5
C-51	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-282.5
C-52	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA (SPLATTER)	SBS-SA	(Optional) APP-TA	APP-TA	-282.0
C-53	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-157.5
C-54	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-187.5
C-55	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-187.5
C-56	Structural concrete	None	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	Insulation: Min. 1.6-inch Kingspan (Pembridge) "Optim-R" Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-127.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-57	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA	SBS-SA	-157.5
C-58	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-277.5
C-59	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-285.0
C-60	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA	SBS-SA	-285.0
C-61	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-112.5
C-62	Structural concrete	None	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA (SPLATTER)	SBS-SA	(Optional) SBS-SA	SBS-SA	-112.5
C-63	Structural concrete	None	Min. 1.5-inch ENRGY 3	OB500	Min. 0.25-inch DensDeck, DensDeck Prime	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-127.5
C-64	Structural concrete	None	Min. 1.5-inch Poly ISO 1 or Poly ISO 2	OB500	Min. 0.25-inch DensDeck, DensDeck Prime	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-150.0
C-65	Structural concrete	None	Min. 1-inch Poly ISO 1 or Poly ISO 2	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-187.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-66	Structural concrete	None	Min. 1.5-inch Poly ISO 1-DWD or ACFoam III	OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD or ACFoam-HD Coverboard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-202.5
C-67	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2, ACFoam III or Insulfoam IX	OB500	Poly ISO 1-HD, ACFoam-HD Coverboard or ACFoam-HD Coverboard-FR	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-230.0
C-68	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-282.5
C-69	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Poly ISO 1-HD, ACFoam-HD Coverboard or ACFoam-HD Coverboard-FR	OB500, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-285.0
C-70	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	APP-TA	-322.5
C-71	Structural concrete	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ACFoam III	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-322.5
C-72	Structural concrete	121 Asphalt Primer	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-350.0

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

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
ASPHALT-APPLIED BASE PLY:						
C-73	Structural concrete	121 Asphalt Primer	BP-AA (Optional if using asphalt applied Ply)	(Optional if using asphalt applied Base) BP-AA, SBS-TA or APP-TA	APP-TA	-622.5
SELF-ADHERING BASE PLY:						
C-74	Structural concrete	121 Asphalt Primer	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-202.5
C-75	Structural concrete	121 Asphalt Primer	SBS-SA	(Optional) SBS-TA or APP-TA	APP-TA	-315.0

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TABLE 4A: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CELCORE (FL2037):										
TORCH APPLIED BASE PLY:										
LWC-1	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5
LWC-2	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-322.5
LWC-3	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-322.5
SELF-ADHERING BASE PLY:										
LWC-4	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA or APP-SA	-72.5
LWC-5	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	APP-TA	-282.5
LWC-6	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	APP-TA	-322.5
LWC-7	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Poly ISO 2, ACFoam III, ENRGY 3, Multi-Max FA3 or Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or WB3000	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA or APP-TA	-322.5
ELASTIZELL (FL4994):										
ASPHALT OR TORCH APPLIED BASE PLY:										
LWC-8	Structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	Min. 1.5-inch Poly ISO 1, Poly ISO 2, ENRGY 3 or ISO 95+ GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-225.0

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TABLE 4A: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
SELF-ADHERING BASE PLY:										
LWC-9	Structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	Min. 1.5-inch, Insulfoam IX	OB500	(Optional) Additional layers of base insulation	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-120.0
LWC-10	Structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	Min. 1.5-inch, Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA, APP-TA	-120.0
LWC-11	Structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	Min. 1.5-inch Poly ISO 1, Poly ISO 2, ENRGY 3 or ISO 95+ GL	OB500	(Optional) Additional layers of base insulation	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA, APP-TA	-225.0
LWC-12	Structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	Min. 1.5-inch Poly ISO 1, Poly ISO 2, ENRGY 3 or ISO 95+ GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA, APP-TA	-225.0
PRE-EXISTENT CELLULAR LWC (NOTE 14A):										
TORCH APPLIED BASE PLY:										
LWC-13	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-52.5
LWC-14	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-75.0
LWC-15	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-187.5
LWC-16	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-282.5

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TABLE 4A: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
LWC-17	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	APP-TA	(Optional) APP-TA	APP-TA	-322.5
SELF-ADHERING BASE PLY:										
LWC-18	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-45.0
LWC-19	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-52.5
LWC-20	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) APP-TA	APP-TA	-75.0
LWC-21	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-187.5
LWC-22	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-350.0

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TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
CELCORE (FL2037):								
ASPHALT OR TORCH APPLIED BASE PLY:								
LWC-23	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 225 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	F/G Base Sheet or G2 Base	Trufast Twin Loc-Nail	9-inch o.c. at a min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	BP-AA, SBS-TA or APP-TA	APP-TA	-45.0
LWC-24	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 225 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Nail Base	Trufast Twin Loc-Nail	9-inch o.c. at a min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-TA or APP-TA	APP-TA	-45.0
LWC-25	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Nail Base	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at a min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	SBS-TA or APP-TA	APP-TA	-60.0
LWC-26	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore Cellular Concrete	F/G Base Sheet or G2 Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 3-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	BP-AA, SBS-TA, APP-TA	APP-TA	-75.0
LWC-27	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore Cellular Concrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 3-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-TA, APP-TA	APP-TA	-75.0
SELF-ADHERING BASE PLY:								
LWC-28	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 225 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Nail Base	Trufast Twin Loc-Nail	9-inch o.c. at a min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-SA	SBS-SA, APP-SA, APP-TA	-45.0
LWC-29	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Nail Base	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at a min. 4-inch lap and 8-inch o.c. at three (3), equally spaced, staggered center rows	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0
ELASTIZELL (FL4994):								
ASPHALT OR TORCH APPLIED BASE PLY:								
LWC-30	Min. 0.0179-inch Tensilform S-75 or min. 0.0205-inch Tensilform 75 at max. 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	F/G Base Sheet or G2 Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7.5-inch o.c. at a min. 3-inch lap and 7.5-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	BP-AA, SBS-TA or APP-TA	APP-TA	-30.0
LWC-31	Min. 0.0179-inch Tensilform S-75 or min. 0.0205-inch Tensilform 75 at max. 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7.5-inch o.c. at a min. 3-inch lap and 7.5-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-TA or APP-TA	APP-TA	-30.0

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TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
LWC-32	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	F/G Base Sheet or G2 Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 3-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	BP-AA, SBS-TA or APP-TA	APP-TA	-45.0
LWC-33	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 3-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-TA or APP-TA	APP-TA	-45.0
LWC-34	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 350 psi, min. 2-inch thick Elastizell with Zell-Crete Fibers, supplemental attached with Roofgrip #21 and 3-inch plates at 1 per 8 ft^2	Nail Base	Trufast Twin Loc-Nails (min. 1.8-inch)	6-inch o.c. at a min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the field of the sheet	SBS-TA or APP-TA	APP-TA	-60.0
SELF-ADHERING BASE PLY:								
LWC-35	Min. 0.0179-inch Tensilform S-75 or min. 0.0205-inch Tensilform 75 at max. 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7.5-inch o.c. at a min. 3-inch lap and 7.5-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-SA	SBS-SA, APP-SA, APP-TA	-30.0
LWC-36	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 3-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-SA	SBS-SA, APP-SA, APP-TA	-45.0
LWC-37	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 350 psi, min. 2-inch thick Elastizell with Zell-Crete Fibers, supplemental attached with Roofgrip #21 and 3-inch plates at 1 per 8 ft^2	Nail Base	Trufast Twin Loc-Nails (min. 1.8-inch)	6-inch o.c. at a min. 4-inch lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the field of the sheet	SBS-SA	SBS-SA, APP-SA, APP-TA	-60.0
MEARLCRETE (FL13492):								
ASPHALT OR TORCH APPLIED BASE PLY:								
LWC-38	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete	F/G Base Sheet or G2 Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 4-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	BP-AA, SBS-TA or APP-TA	APP-TA	-52.5
LWC-39	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 4-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-TA or APP-TA	APP-TA	-52.5

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TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
SELF-ADHERING BASE PLY:								
LWC-40	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete	Nail Base	Trufast FM-90 Base Sheet Fastener or OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at a min. 4-inch lap and 7-inch o.c. at two (2), equally spaced, staggered rows in the field of the sheet	SBS-SA	SBS-SA, APP-SA, APP-TA	-52.5

TABLE 4C: LIGHTWEIGHT CONCRETE OVER STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED AIR OR VAPOR BARRIER, LWC, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER												
System No.	Deck (Note 1)	Thermal Barrier			Air or Vapor Barrier	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach			Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
CELCORE (FL2037):												
LWC-41	Min. 22 ga., Type B, Grade 40 steel; 5 ft span; 5/8-inch puddle welds, 6" o.c.	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	APP Torch G Premier, torch-applied	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	F/G Base Sheet, G2 Base or Nail Base	OMG C-R Assembled Base Sheet Fastener (1.7 in.), OlyLock 1.8, Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nails (1.8 in.)	6-inch o.c. at a min. 4-inch lap and 6-inch o.c. at two, equally spaced center rows	(Optional) APP-TA	APP-TA	-52.5
LWC-42	Min. 22 ga., Type B, Grade 40 steel; 5 ft span; 5/8-inch puddle welds, 6" o.c.	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	APP Torch G Premier, torch-applied	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	F/G Base Sheet, G2 Base or Nail Base	LWG Fasteners with LWG Plates; two (2) screws per plate	6-inch o.c. at a min. 4-inch lap and 6-inch o.c. at two, equally spaced center rows	(Optional) APP-TA	APP-TA	-60.0
PRE-EXISTENT CELLULAR LWC (NOTE 14A):												
LWC-43	Min. 22 ga., Type BV, Grade 40 steel; 5 ft span; 5/8-inch puddle welds, 6" o.c.	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	APP Torch G Premier, torch-applied	Pre-existent, min. 2-inch, cellular lightweight concrete Compressive: 410 psi Withdrawal: 59 lbf	F/G Base Sheet, G2 Base or Nail Base	Trufast FM-90 Base Sheet Fastener	6-inch o.c. at a min. 4-inch lap and 6-inch o.c. at two, equally spaced center rows	(Optional) APP-TA	APP-TA	-60.0

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TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT OR TORCH APPLIED BASE PLY:									
CWF-1	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-82.5
CWF-2	Min. 2-inch Tectum Plank	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	APP-TA	(Optional) APP-TA	APP-TA	-187.5
CWF-3	Min. 2-inch Tectum Plank	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	APP-TA	(Optional) APP-TA	APP-TA	-277.5
CWF-4	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 1.5-inch Poly ISO 2, Poly ISO 1, ENRGY-3	OB500	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	BP-AA	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0
CWF-5	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 1.5-inch Poly ISO 2, Poly ISO 1, ENRGY-3	OB500	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-45.0
SELF-ADHERING BASE PLY:									
CWF-6	Min. 2-inch Tectum Plank	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-82.5
CWF-7	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-72.5
CWF-8	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-82.5
CWF-9	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-82.5

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

System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-10	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD or Poly ISO 1-HD-Plus or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-82.5
CWF-11	Min. 2-inch Tectum Plank	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	(Optional) Additional layer(s) base insulation	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-277.5
CWF-12	Min. 2-inch Tectum Plank	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	SBS-SA	(Optional) APP-TA	APP-TA	-277.5
CWF-13	Min. 2-inch Tectum Plank	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-187.5
CWF-14	Min. 2-inch Tectum Plank	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD or Poly ISO 1-HD-Plus or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	SBS-SA	(Optional) SBS-SA	SBS-SA	-277.5
CWF-15	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 1.5-inch Poly ISO 2, , Poly ISO 1, ENRGY-3	OB500	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, APP-SA, APP-TA	-45.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasten (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-16	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 2-inch Poly ISO 1	OMG Polymer GypTec Plate with Polymer GypTec or Trufast TL 3 in. Plate with TL Fastener	1 per 4.0 ft²	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*

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TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-3: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT OR TORCH APPLIED BASE PLY:												
CWF-17	Min. 2-inch Tectum Plank	F/G Base Sheet or G2 Base	Trufast Twin-Loc Nails, min. 1.4-inch embedment	9-inch o.c. in the 4-inch side laps and 18-inch o.c. at two (2), staggered rows in the center of the sheet	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBONS, ~10.5-inch o.c., atop anchor sheet fastener rows)	Additional optional layer(s) base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-30.0
CWF-18	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	F/G Base Sheet or G2 Base	Trufast Twin Loc-Nail	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	Min. 1.5-inch Poly ISO 2, ACFoam III, ISO 95+GL, Poly ISO 1, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
CWF-19	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	F/G Base Sheet or G2 Base	Trufast Twin Loc-Nail	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	Min. 1.5-inch Poly ISO 1, Poly ISO 2, ACFoam III, ENRGY 3, ISO 95+ GL or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-TA or APP-TA	(Optional) SBS-TA, APP-TA	APP-TA	-45.0*
SELF-ADHERING BASE PLY:												
CWF-20	Min. 2-inch Tectum Plank	F/G Base Sheet or G2 Base	Trufast Twin-Loc Nails, min. 1.4-inch embedment	9-inch o.c. in the 4-inch side laps and 18-inch o.c. at two (2), staggered rows in the center of the sheet	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD and/or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBONS, ~10.5-inch o.c., atop anchor sheet fastener rows)	(Optional) Additional layer(s) base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA or APP-TA	SBS-SA, APP-TA, APP-SA	-30.0

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TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-3: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-21	Min. 2-inch Tectum Plank	F/G Base Sheet or G2 Base	Trufast Twin-Loc Nails, min. 1.4-inch embedment	9-inch o.c. in the 4-inch side laps and 18-inch o.c. at two (2), staggered rows in the center of the sheet	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD and/or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBONS, ~10.5-inch o.c., atop anchor sheet fastener rows)	(Optional) Additional layer(s) base insulation, min. 0.5-inch Poly ISO 1-HD or Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0
CWF-22	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	F/G Base Sheet or G2 Base	Trufast Twin Loc-Nail	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	Min. 1.5-inch Poly ISO 1, Poly ISO 2, ACFoam III, ENRGY 3, ISO 95+ GL or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-SA	(Optional) SBS-TA, SBS-SA or APP-TA	SBS-SA, APP-TA, APP-SA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13, Note 17)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
CWF-23	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails (min. 1-inch embedment)	1 per 2.0 ft^2	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
CWF-24	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	F/G Base Sheet or G2 Base	Trufast Twin Loc-Nails, 1.8-inch	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
CWF-25	Existing Min. 2.5-inch Tectum Plank or Tectum LS Plank	Nail Base	Trufast Twin Loc-Nails, 1.8-inch	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-45.0*

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TABLE 6A: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
TORCH-APPLIED BASE PLY:									
G-1	Existing gypsum deck	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD and/or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-237.5
G-2	Existing gypsum deck	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD and/or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-187.5
SELF-ADHERING BASE PLY:									
G-3	Existing gypsum deck	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD and/or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-237.5
G-4	Existing gypsum deck	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-72.5
G-5	Existing gypsum deck	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-237.5
G-6	Existing gypsum deck	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-187.5
G-7	Existing gypsum deck	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA	-237.5
G-8	Existing gypsum deck	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3 or Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-72.5
G-9	Existing gypsum deck	Min. 1.5-inch Insulfoam IX	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-112.5
G-10	Existing gypsum deck	Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-112.5

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TABLE 6A: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-11	Existing gypsum deck	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3 or Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-112.5

TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE B-3: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-12	Existing gypsum deck	F/G Base Sheet or G2 Base	Trufast FM-75 or FM-90 or Twin Loc-Nails	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	Min. 1.5-inch Poly ISO 2, ACFoam III, ISO 95+GL, Poly ISO 1, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*

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TABLE 6C: GYPSUM DECKS – REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer (Note 13, Note 17)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
G-13	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails (min. 1-inch embedment)	1 per 2.0 ft^2	(Optional if using AA Ply) BP-AA	(Optional if using AA Base) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*

TABLE 6D: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							MDP (psf)
System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		
		Type	Fasten (Note 11)	Attach	Base Ply	Cap Ply	
G-14	Existing gypsum deck	F/G Base Sheet or G2 Base	Trufast FM-75 or FM-90 or Twin Loc-Nails	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-45.0*
G-15	Existing gypsum deck	Nail Base	Trufast FM-75 or FM-90 or Twin Loc-Nails	9-inch o.c. at min. 4-inch lap and 18-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) SBS-TA or APP-TA	APP-TA	-45.0*

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT OR TORCH APPLIED BASE PLY:									
R-1	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-167.0
R-2	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	APP-TA	(Optional) APP-TA	APP-TA	-167.0
R-3	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.5-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-282.5
R-4	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-282.5
R-5	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-302.5
R-6	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-302.5

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-7	Existing, fully-adhered, asphaltic roof	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3	OB500	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-TA or APP-TA	APP-TA	-127.5
SELF-ADHERING BASE PLY:									
R-8	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-72.5
R-9	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA	SBS-SA, APP-SA	-72.5
R-10	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-167.0
R-11	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) APP-TA	APP-TA	-167.0
R-12	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-167.0

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-13	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-167.0
R-14	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.5-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	SBS-SA	(Optional) APP-TA	APP-TA	-282.5
R-15	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	SBS-SA	(Optional) APP-TA	APP-TA	-282.5
R-16	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-302.5
R-17	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	SBS-SA	(Optional) SBS-SA, APP-TA	SBS-SA, APP-SA, APP-TA	-302.5
R-18	Existing, fully-adhered, asphaltic roof	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2, ENRGY 3 or Insulfoam IX	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-72.5
R-19	Existing, fully-adhered, asphaltic roof	Min. 1.5-inch, Insulfoam IX	OB500	(Optional) additional layers of base insulation	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-20	Existing, fully-adhered, asphaltic roof	(Optional) Min. 1.5-inch, Insulfoam IX	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-120.0

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-21	Existing, fully-adhered, asphaltic roof	Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3	OB500	(Optional) additional layers(s) of base insulation	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-127.5
R-22	Existing, fully-adhered, asphaltic roof	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2 or ENRGY 3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, APP-SA, APP-TA	-127.5
R-23	Existing, fully-adhered, asphaltic roof	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 2, ACFoam III or Insulfoam IX	OB500	Poly ISO 1-HD, ACFoam-HD Coverboard or ACFoam-HD Coverboard-FR	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-127.5

TABLE 7B: RECOVER APPLICATIONS
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

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

System No.	Substrate (Note 1, Note 12)	Primer	Roof Cover (Note 15)			MDP (psf)[A]
			Base Ply	Ply	Cap Ply	
R-24	Existing fully-adhered, granule-surfaced modified bitumen	None	(Optional) APP Torch S Premier, torch-applied	(Optional) APP Torch S Premier, torch-applied	APP-TA	-362.5
R-25	Existing fully-adhered, granule-surfaced modified bitumen	121 Asphalt Primer	(Optional) APP Torch S Premier, torch-applied	(Optional) APP Torch S Premier, torch-applied	APP-TA	-445.0

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