



ENGINEER

EVALUATE

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P.E. EVALUATION REPORT (PEER)

Mule-Hide Products Co., Inc.

1195 Prince Hall Drive
Beloit, WI 53511
(608) 365-3111

PEER-MHCRL-002.A.R9

FL19968-R8 (NON-HVHZ)

Date of Issuance: 02/18/2016

Revision 9: 10/06/2023

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. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8th Edition (2023) Florida Building Code sections noted herein.**

DESCRIPTION: Mule-Hide PVC and PVC/KEE Single Ply Roof Systems (NON-HVHZ)

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

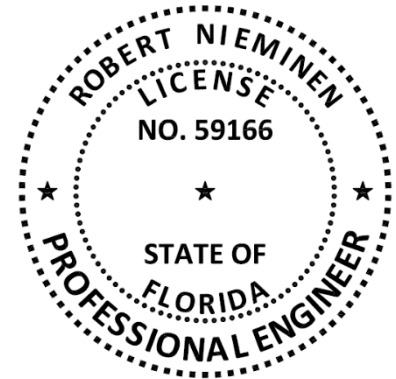
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO 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.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done 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 4, plus an 87-page Appendix.

Prepared by:



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the 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. 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.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Single Ply Roof Systems
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Mule-Hide PVC and PVC/KEE Single Ply Roof Systems, as produced by Mule-Hide Products Co., Inc., have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD	YEAR
1504.3.1	Wind resistance	FM 4474	2011
1504.6	Physical properties	ASTM G154	2016
1504.7	Impact resistance	FM 4470	2016
1507.12.2	Material standard	ASTM D4434	2015

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
FM Approvals (TST1867)	FM 4470/4474	3059661	09/21/2018
FM Approvals (TST1867)	FM 4470/4474	PR451159	05/09/2019
NEMO	Evaluation Report	PEER-CRL-002.A.R21	09/29/2023
UL, LLC (QUA9625)	Quality Control	MLA; R8103	05/07/2012
UL, LLC (QUA9625)	Quality Control	MLA; R13850	10/01/2014
UL, LLC (QUA9625)	Quality Control	MLA; R13850	09/15/2017
UL, LLC (QUA9625)	Quality Control	Service confirmation	07/06/2022
UL, LLC (QUA9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This PEER covers Mule-Hide PVC and PVC/KEE Single Ply Roof Systems installed in accordance with Mule-Hide Products Co., Inc. published installation instructions and the [Limitations of Use](#) herein.

PRODUCT		MATERIAL STANDARD			PLANT(S)	
		REFERENCE	TYPE	GRADE		
ROOF COVER OR CAP PLY	Mule-Hide PVC	50, 60, 80-mil	ASTM D4434	III	N/A	Greenville, IL
	Mule-Hide PVC FRS	60, 80-mil	ASTM D4434	II	N/A	Hillside, NJ
	Mule-Hide KEE HP	50, 60, 80-mil	ASTM D4434	III	N/A	Greenville, IL
	Mule-Hide PVC Fleece Back	60, 80-mil	ASTM D4434	III	N/A	Greenville, IL
	Mule-Hide PVC FRS Fleece Back	60, 80-mil	ASTM D4434	III	N/A	Hillside, NJ
	Mule-Hide KEE HP Fleece Back	50, 60, 80-mil	ASTM D4434	III	N/A	Greenville, IL
	Mule-Hide KEE HP FRS Fleece Back	60, 80-mil	ASTM D4434	III	N/A	Hillside, NJ

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 FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard TAS 105](#).
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with [ANSI/SPRI IA-1](#), [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#) shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#).
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard RAS 117](#) 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 Chapter 16**. No rational analysis is permitted for these systems.

- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with F.A.C. [Rule 61G20-3](#). Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on [Page 1](#) of this PEER.

6. INSTALLATION:

Mule-Hide PVC and PVC/KEE Single Ply 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 LLC – QUA9625](#); (360) 817-5512; bsai.inspections@ul.com

- THE 87-PAGES THAT FOLLOW FORM PART OF THIS PEER -

FBC NON-HVHZ

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	6
1B	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9
1C	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover	11
1D	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	11
1E	Wood	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	15
1F	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	16
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	17
2B	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	19
2C	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover	28
2D	Steel	New, Reroof (Tear-Off), Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	28
2E	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	31
2F	Steel	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	42
2G	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	47
3A	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	48
3B	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	58
3C	Structural concrete	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	58
3D	Structural concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	61
4A	Lightweight concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	61
4B	Lightweight concrete over steel	New, Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	67
4C	Lightweight concrete over concrete	New, Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	70
5A	Cementitious wood fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	71
5B	Cementitious wood fiber	New, Reroof (Tear-Off), Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	73
5C	Cementitious wood fiber	New, Recover	F	Non-Insulated, Bonded Roof Cover	74
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	74
6B	Existing gypsum	Reroof (Tear-Off)	F	None-Insulated, Bonded Roof Cover	76
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	77
7B	Various	Recover	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	82
7C	Steel	Recover	C-2	Induction Welded Roof Cover	83
7D	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	85
7E	Various	Recover	F	Non-Insulated, Bonded Roof Cover	86
8A/8B	Guidance / Limitations for use of Hilti fasteners in Type B steel deck securement beneath Mule-Hide roof systems				87

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
 - As-tested roof cover performance in accordance with FM 4474 and TAS 114, Appendix J indicates min. 22 ga., Type B, Grade 40 steel deck at max. 6 ft spans attached with 5/8-inch diameter puddle welds spaced 6" o.c., with deck side laps secured max. 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screws, may be used for roof assemblies over steel deck up to a maximum design pressure of -60.0 psf. This does not preclude Note 1 above.
 - [Tables 8A and 8B](#) provide guidance / limitations associated with use of fasteners from Hilti, Inc. to secure steel decking to structural members
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fastener shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS			
DECK TYPE	By	PARTS	MINIMUM ENGAGEMENT
Wood	Mule-Hide	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	Minimum ¼-inch plywood penetration or minimum 1-inch wood plank embedment
Steel	Mule-Hide	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	Minimum ¼-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Mule-Hide	Mule-Hide HDP Fastener, Mule-Hide Fluted Concrete Nail or Mule-Hide Tru-Spike Fastener with Mule-Hide 3" Insulation Plate	Minimum 1-inch embedment. Fastener installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions

- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment: Unless otherwise noted, use FBC Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#). For systems where a vapor barrier is installed, refer to Table 6 of [FM Loss Prevention Data Sheet 1-29](#). For systems where no vapor barrier is installed, Mule-Hide Drill Point Fastener may be used in place of Mule-Hide HDP Fastener for preliminary attachment purposes over wood and steel deck.
- 6 Unless otherwise noted, insulation adhesive application rates are as follows.
 - Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
 - 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.
 - When installing multiple layers of insulation, DASH Dual-Tank beads shall be placed perpendicular to those placed for attachment of the previous layer
 - "FULL" or "SPLATTER" applications may be used wherever "RIBBON" is referenced for insulation securement.

INSULATION ADHESIVE REFERENCES			
ADHESIVE	METHOD	REFERENCE	MINIMUM RATE
Helix Max Low-Rise Adhesive	full-coverage	Helix Max LRA (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal./square
Helix Max Low-Rise Adhesive	splatter-applied	Helix Max LRA (SPLATTER)	Splatter-applied at 0.5 gal/square (wet) = 4.7 lb/square (dry)
Helix Max Low-Rise Adhesive	ribbon-applied	Helix Max LRA (RIBBON)	Continuous ribbons, 12-inch o.c.
Helix Max Low-Rise Adhesive – Dual Tank	full-coverage	Helix Max LRA-DT (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal./square
Helix Max Low-Rise Adhesive – Dual Tank	splatter-applied	Helix Max LRA-DT (SPLATTER)	Splatter-applied at 0.4 gal/square (wet) = 3.7 lb/square (dry)
Helix Max Low-Rise Adhesive – Dual Tank	ribbon-applied	Helix Max LRA-DT (RIBBON)	Continuous ribbons, 12-inch o.c.
OlyBond 500 BA	ribbon-applied	OB500	Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart, SpotShot or Canister)

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

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS				
ADHESIVE	INSULATION		MIN. TAPERED THICKNESS (IN)	MDP (psf)
	LISTED PRODUCT	FBC FILE		
Helix Max LRA	Any polyisocyanurate listed with adhesive herein	Various	0.5	-157.5
OB500	Any polyisocyanurate listed with adhesive herein	Various	0.5	-187.5

- 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 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 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.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard](#) TAS 105.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with [ASTM](#) E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be prelim. attached prior to roof cover installation ([Note 5](#) herein). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15 For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS			
MATERIAL	APPLICATION		
	ADHESIVE	METHOD	RATE
Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	Contact (both sides)	0.83 gal/square per surface [(1.66 gal/square (60 ft ² /gal) finish)]
Mule-Hide PVC or PVC FRS	Aqua Base 120 Bonding Adhesive (Aqua Base 120 BA)	Contact (both sides)	0.42 to 0.5 gal/square per surface [(0.83 to 1.0 gal/square (100 to 120 ft ² /gal) finish)]
Mule-Hide PVC or PVC FRS	HydroBond Water-Based PVC Bonding Adhesive (HydroBond WB)	Wet lay (substrate)	0.75 to 1 gal/square (100 to 133 ft ² /gal)
Mule-Hide PVC or PVC FRS	AeroWeb PVC	Contact (both sides)	3.0 lb/square per surface (~800 ft ² /standard cylinder per finished surface)

MEMBRANE / ADHESIVE COMBINATIONS			
MATERIAL	APPLICATION		
	ADHESIVE	METHOD	RATE
Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Aqua Base 120 Bonding Adhesive (Aqua Base 120 BA)	Wet lay (substrate)	0.83 gal/square (120 ft ² /gal)
Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond Water-Based PVC Bonding Adhesive (HydroBond WB)	Wet lay (substrate)	0.75 to 1 gal/square (100 to 133 ft ² /gal)
Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square or continuous ribbons, maximum 4-inch o.c. or splatter-applied at 0.5 gal/square (wet) = 4.7 lb/square (dry)
Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA-DT	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square; continuous ribbons, max. 4-inch o.c. or splatter-applied at 0.4 gal/square (wet) = 3.7 lb/square (dry)

- 15A For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
- 15B For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.
- 15C For System Types A-1, B-1, B-2, B-3 or C-1 involving Mule-Hide PVC, PVC FRS or KEE HP adhered in Low VOC PVC Bonding Adhesive over Poly ISO 1, Poly ISO 1-DWD, Poly ISO 1-HD or Poly ISO 1-HD Plus, the top insulation layer may be optionally primed with Detec Systems “TruGround Conductive Primer”, roller-applied at 0.4 gal/square prior to membrane installation.
- 15D For System Types C-2, D-1 or D-2, the top insulation layer may be optionally primed with Detec Systems “TruGround Conductive Primer”, roller-applied at 0.4 gal/square prior to membrane installation. For System Type C-2, do not contaminate the induction weld stress plate with primer.
- 16 Vapor barrier options for use over **structural concrete deck** followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. 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 OR 3B (NOTES 6, 7 & 8)	MDP (psf)*
		TYPE	APPLICATION		
C-VB-1.	702 Primer, 702 LV Primer, CAV-GRIP Primer or AeroWeb PVC	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 PVC	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 PVC	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA or Helix Max LRA-DT (RIBBONS, 6-inch o.c. or SPLATTER)	-270.0
C-VB-4.	CAV-GRIP Primer or AeroWeb PVC	F5 Air and Vapor Barrier	Self-adhering	Helix Max LRA (FULL COVERAGE, 1 gal/square), Helix Max LRA (SPLATTER) or Helix Max LRA-DT (SPLATTER)	-427.5
C-VB-5.	ASTM D41	Carlisle SynTec SureMB 90 Base, SureMB 90 Poly Base or SureMB 120 Poly Base	Hot-asphalt	Hot asphalt at 25 lbs/square	-172.5
C-VB-6.	ASTM D41	Carlisle SynTec SureMB 90TG or 120TG Base	Torch-applied	Hot asphalt at 25 lbs/square	-180.0
C-VB-7.	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-8.	ASTM D41	Carlisle SynTec SureMB 90TG or 120TG Base	Torch-applied	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. or SPLATTER)	-495.0

- 17 Vapor barrier options for use over **Tectum Plank**, followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. that for the selected assembly from TABLE 5A applies:

VAPOR BARRIER OPTIONS, TECTUM PLANK DECKS, ADHERED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 5A (NOTES 6,7&8)	MDP (psf)
		TYPE	APPLICATION		
CWF-VB-1.	AeroWeb PVC	F5 Air and Vapor Barrier or Carlisle SynTec SureMB 70 SA Base Ply	Self-adhering	Helix Max LRA (FULL or SPLATTER) or Helix Max LRA-DT (FULL or SPLATER)	-350.0

18 For System Types B-1, B-2, C-1, C-2, D-1 or D-2, F5 Air and Vapor Barrier or Carlisle SynTec VapAir Seal 725TR 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 limitations.

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

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	BY	LISTED PRODUCT HEREIN	ALTERNATE	FBC FILE
ROOFING INSULATION	Mule-Hide	Poly ISO 1	InsulBase, InsulBase NH, H-Shield, H-Shield NH	FL5968
		Poly ISO 1-DWD	SecurShield, SecurShield NH, H-Shield CG, H-Shield CG NH	
		Poly ISO 1-HD	SecurShield HD, SecurShield HD NH, H-Shield ND, H-Shield HD NH	
		Poly ISO 1-HD Plus	Poly ISO 1-HD90, SecurShield HD Plus, SecurShield HD-Plus NH, H-Shield HD90, H-Shield HD90 NH	
		Poly ISO 1-HD-Composite	SecurShield HD Composite, H-Shield HD Composite	
		Poly ISO 1-NB	StormBase, H-Shield NB	
	Georgia-Pacific Gypsum, LLC	DensDeck Prime	DensDeck StormX Prime Roof Board	FL1250

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

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

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)	
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application		
BAREBACK MEMBRANE APPLICATIONS:										
W-1.	7/16-inch APA rated OSB; 2 ft spans	None	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)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-45.0*	
W-2.	7/16-inch APA rated OSB; 2 ft spans	None	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-45.0*	
W-3.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	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)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-67.5	
W-4.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-67.5	
W-5.	7/16-inch APA rated OSB; 2 ft spans	None	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)	Mule-Hide PVC or PVC FRS	HydroBond WB	-45.0*	
W-6.	7/16-inch APA rated OSB; 2 ft spans	None	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON) or Helix Max LRA (SPLATTER)	Mule-Hide PVC or PVC FRS	HydroBond WB	-45.0*	

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

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
W-7.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	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)	Mule-Hide PVC or PVC FRS	HydroBond WB	-67.5
W-8.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-67.5
W-9.	7/16-inch APA rated OSB; 2 ft spans	None	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)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-45.0*
W-10.	7/16-inch APA rated OSB; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-45.0*
W-11.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	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)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-67.5
W-12.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-67.5

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

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
FLEECE BACK MEMBRANE APPLICATIONS (FULL BOND):									
W-13.	7/16-inch APA rated OSB; 2 ft spans	None	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)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-14.	7/16-inch APA rated OSB; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-15.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	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)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5
W-16.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5

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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2 , Note 11)	Attach	Type	Attach (Notes 6,7,8)		
BAREBACK APPLICATIONS:								
W-17.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Additional layer(s), min. 1.5-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, HydroBond WB or Low VOC PVC Bonding Adhesive or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5
W-18.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH, min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, HydroBond WB or Low VOC PVC Bonding Adhesive or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5
W-19.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Additional layer(s), min. 1.5-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, HydroBond WB or Low VOC PVC Bonding Adhesive or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
W-20.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH, min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, HydroBond WB or Low VOC PVC Bonding Adhesive or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
FLEECE BACK MEMBRANE APPLICATIONS (PARTIAL BOND):								
W-21.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Additional layer(s), min. 1.5-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5
W-22.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5

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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
W-23.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	<u>Insulation</u> : (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard</u> : Min. 0.5-inch Poly ISO 1-HD or Poly ISO 1-HD90	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-60.0
FLEECE BACK MEMBRANE APPLICATIONS (FULL BOND):								
W-24.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Additional layer(s), min. 1.5-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5
W-25.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	<u>Insulation</u> : (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH, min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5
W-26.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Additional layer(s), min. 1.5-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
W-27.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	<u>Insulation</u> : (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH, min. 1.5-inch Poly ISO 1-HD Composite or min. 2-inch StormBase	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0

TABLE 1c: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER										
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE PLY, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer(s)			Roof Cover (Note 15)		MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Cap Ply		
FLEECE BACK MEMBRANE APPLICATIONS (PARTIAL BOND):										
W-28.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5	
W-29.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD or H-Shield CG	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-60.0	

TABLE 1d: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)		
			Type	Fastener (Note 2, Note 11)	Attach				
BAREBACK APPLICATIONS:									
W-30.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-37.5		
W-31.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-37.5		
W-32.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*		

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
W-33.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
W-34.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0
W-35.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
W-36.	Min. 23/32-inch plywood	Min. 1.0-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
W-37.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
W-38.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-60.0
W-39.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-60.0
W-40.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-67.5
W-41.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5
W-42.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-37.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
W-43.	Min. 23/32-inch plywood	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Aquabase 120 Water Based BA	-37.5*
W-44.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
W-45.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-45.0*
W-46.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0
W-47.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-45.0
W-48.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
W-49.	Min. 23/32-inch plywood	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / Low VOC PVC Bonding Adhesive	-45.0*
W-50.	Min. 23/32-inch plywood	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
W-51.	Min. 23/32-inch plywood	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Aquabase 120 Water Based BA	-45.0*
W-52.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
W-53.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
W-54.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
W-55.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-60.0
W-56.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-67.5
W-57.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.8 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-67.5
FLEECE BACK APPLICATIONS (FULL BOND):							
W-58.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5
W-59.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5
W-60.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL), Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-61.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL), Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
W-62.	Min. 23/32-inch plywood	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL), Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-63.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-64.	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
W-65.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.7 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0
W-66.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1, H-Shield, Poly ISO 1-DWD, H-Shield CG, Poly ISO 1-HD Composite or H-Shield HD Composite	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
W-67.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
W-68.	Min. 19/32-inch CDX plywood or wood plank; 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.8 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5
W-69.	Min. 19/32-inch CDX plywood or wood plank at max. 24-inch spans; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-75.0

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
RHINO BOND SYSTEMS:						
W-70.	Min. 15/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 5.3 ft ² (6 parts per 4 x 8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-22.5*

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
W-71.	Min. 15/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
W-72.	Min. 15/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-37.5*
W-73.	Min. 19/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 5.3 ft ² (6 parts per 4 x 8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-45.0*
W-74.	Min. 19/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-45.0*
W-75.	Min. 15/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 2.7 ft ² (12 parts per 4 x 8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
W-76.	Min. 15/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	Max. 6" o.c. in rows max. 60" o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
W-77.	Min. 19/32-inch plywood; max. 24-inch span	(Optional) One or more layers, any thickness or combination	OMG XHD and RhinoBond Plate (PVC)	1 per 2.7 ft ² (12 parts per 4 x 8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-67.5

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

System No.	Deck (Note 1)	Insulation Layer (Note 13)		Roof Cover						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
W-78.	Min. 19/32-inch APA rated CDX plywood at max. 24-inc spans	One or more layers, any combination	prelim attach	Mule-Hide PVC, PVC Fleece Back, KEE HP or KEE HP Fleece Back	Mule-Hide EHD Fastener with Mule-Hide 2.4" Seam Plate	12	5.5	114.5	1.5	-30.0
W-79.	Min. 19/32-inch APA rated CDX plywood at max. 24-inc spans	One or more layers, any combination	prelim attach	Mule-Hide PVC, PVC Fleece Back, KEE HP or KEE HP Fleece Back	Mule-Hide EHD Fastener with Mule-Hide 2.4" Seam Plate	6	5.5	114.5	1.5	-45.0
W-80.	Min. 23/32-inch plywood or wood plank at max. 24-inch spans attached using Trufast Spax 8x1½, Spax 8x2, Spax 10x1½, Spax 10x2 fasteners or OMG Fasten-Master GuardDog 1-5/8 in. or 2 in. screws spaced 6-inch o.c. in the field and spaced 3-inch o.c. at the panel ends.	One or more layers, any combination	prelim attach	Mule-Hide PVC, PVC Fleece Back, KEE HP or KEE HP Fleece Back	Mule-Hide EHD Fastener with Mule-Hide 2.4" Seam Plate	6	5.5	75.5	1.5	-52.5

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

System No.	Deck (Note 1)	Insulation Layer (Note 13)		Roof Cover						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
W-81.	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d ring shank nails spaced 6-inch o.c. in the field and #10 ring shank nails spaced 4-inch o.c. at the perimeter	One or more layers, any combination	prelim attach	Mule-Hide PVC, PVC Fleece Back, KEE HP or KEE HP Fleece Back	Mule-Hide EHD Fastener with Mule-Hide 2.4" Seam Plate	6	5.5	75.5	1.5	-60.0

**TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)	
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application		
BAREBACK APPLICATIONS:										
SC-1.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD and/or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-82.5	
SC-2.	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-105.0	
SC-3.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-67.5	
SC-4.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 2-inch Poly ISO 1-DWD and/or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-82.5	

**TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
SC-5.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	<u>Additional Insulation Layer(s)</u> : (Optional) Min. 1.5-inch base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-82.5
SC-6.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-82.5
SC-7.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD and/or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-82.5
SC-8.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-82.5
SC-9.	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-105.0
FLEECE BACK APPLICATIONS (FULL BOND):									
SC-10.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD and/or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5
SC-11.	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal 725TR, self-adhering	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5

**TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)		MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
SC-12.	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-105.0

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
BAREBACK APPLICATIONS:								
SC-13.	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	Note 2	1 per 3.2 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-14.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-15.	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	Note 2	1 per 3.2 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-16.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-17.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.0 ft ²	Min. 2.0-inch Insulfoam HD Composite	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-18.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-45.0

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-19.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-52.5
SC-20.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-60.0
SC-21.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-60.0
SC-22.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-67.5
SC-23.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1	Note 2	1 per 1.6 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-67.5
SC-24.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-75.0
SC-25.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-82.5
SC-26.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-82.5

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-82.5
SC-28.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-90.0
SC-29.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-112.5
SC-30.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) / AeroWeb PVC	-135.0
SC-31.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.7 ft ²	Min. 1.5-inch Insulam (OSB)	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5*
SC-32.	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	Note 2	1 per 3.2 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-33.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-34.	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	Note 2	1 per 3.2 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-35.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-36.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.0 ft ²	Min. 2.0-inch Insulfoam HD Composite	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-37.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-45.0
SC-38.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-52.5
SC-39.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-60.0
SC-40.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP in Low VOC PVC Bonding Adhesive	-60.0
SC-41.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-67.5
SC-42.	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	Note 2	1 per 1.6 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-67.5

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-43.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-75.0
SC-44.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP in Low VOC PVC Bonding Adhesive	-82.5
SC-45.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-82.5
SC-46.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-82.5
SC-47.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP in Low VOC PVC Bonding Adhesive	-90.0
SC-48.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-112.5
SC-49.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC (min. 60-mil) or PVC FRS (min. 60-mil) in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP (min. 60-mil) in Low VOC PVC Bonding Adhesive	-135.0

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-50.	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, Polyisocyanurate MP-N, MP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Versico Recovery Board	OB500	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-45.0*
SC-51.	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, Polyisocyanurate MP-N, MP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
FLEECE BACK APPLICATIONS (PARTIAL BOND):								
SC-52.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck, DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5*
SC-53.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck or DensDeck Prime	Note 2	1 per 2.0 ft ²	Min. 1.5-inch Kingspan GreenGuard Extruded Polystyrene followed by min. 0.25-inch DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5*
FLEECE BACK APPLICATIONS (FULL BOND):								
SC-54.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.7 ft ²	Min. 1.5-inch Insulam (OSB)	Helix Max LRA (RIBBON), 6-inch o.c.	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-37.5*
SC-55.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft ²	Additional layers of base insulation	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL)	-45.0*

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-56.	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	Note 2	1 per 3.2 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-45.0*
SC-57.	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	Note 2	1 per 3.2 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck or DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL)	-45.0*
SC-58.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-45.0*
SC-59.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck or DensDeck Prime	Helix Max LRA (RIBBON) or Helix Max LRA (SPATTER)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA (FULL)	-45.0*
SC-60.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.0 ft ²	Min. 2.0-inch Insulfoam HD Composite	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-45.0*
SC-61.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0
SC-62.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-52.5
SC-63.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
SC-64.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 2.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-60.0

TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-65.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5
SC-66.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-67.5
SC-67.	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	Note 2	1 per 1.6 ft ²	Min. 1.0-inch base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-67.5
SC-68.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-75.0
SC-69.	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	Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5
SC-70.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-82.5
SC-71.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-82.5
SC-72.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-82.5

**TABLE 2B: 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(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)		
SC-73.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5
SC-74.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 4-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-90.0
SC-75.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-112.5
SC-76.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5
SC-77.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-135.0
SC-78.	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	Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 0.25-inch SECUROCK Gypsum- Fiber Roof Board	OB500	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-37.5*
SC-79.	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	Note 2	1 per 2.7 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 0.25-inch SECUROCK Gypsum- Fiber Roof Board	OB500	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-45.0*
SC-80.	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	Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 0.25-inch SECUROCK Gypsum- Fiber Roof Board	OB500	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-60.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Top Ply	
FLEECE BACK MEMBRANE APPLICATIONS (PARTIAL BOND):									
SC-81.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90 Base / US Ply Duraflex 901 Premium SBS Modified Adhesive	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0*
SC-82.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 4.0 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0*
SC-83.	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	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> 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.)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-75.0

TABLE 2d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 2, Note 11)	Attach			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
BAREBACK APPLICATIONS:												
SC-84.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*

TABLE 2d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 2, Note 11)	Attach			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
SC-85.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-86.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / HydroBond	-45.0*
SC-87.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / AeroWeb PVC or Low VOC PVC Bonding Adhesive	-45.0*
SC-88.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-52.5
SC-89.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.6 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-67.5
SC-90.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.6 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, 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 or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS in AeroWeb PVC, Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-67.5

TABLE 2d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 2, Note 11)	Attach			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
FLEECE BACK APPLICATIONS (PARTIAL BOND):												
SC-91.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	(Optional) Min. 1.5-Inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0*
SC-92.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0*
SC-93.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-52.5
FLEECE BACK APPLICATIONS (FULL BOND):												
SC-94.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON) o	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-95.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 4.0 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-96.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	CAV-GRIP Primer	F5 Air and Vapor Barrier, self-adhering	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA (RIBBON)	(Optional) Additional layers base insulation	Helix Max LRA (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-52.5

TABLE 2d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 2, Note 11)	Attach			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
SC-97.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.6 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5
SC-98.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate	1 per 1.6 ft ²	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch Poly ISO 1, 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 or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD90 or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
BAREBACK APPLICATIONS:							
SC-99.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-30.0*
SC-100.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-30.0*
SC-101.	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	Min. 0.625-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-37.5*
SC-102.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.9 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-37.5*

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-103.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-37.5*
SC-104.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-105.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 4.0 ft ²	Mule-Hide PVC / Low VOC PVC Bonding Adhesive or HydroBond WB	-45.0*
SC-106.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-107.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-108.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-109.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch Poly ISO 1-DWD	Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-110.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-111.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-112.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-113.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-45.0*
SC-114.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-52.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-115.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-52.5
SC-116.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-60.0
SC-117.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-60.0
SC-118.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-67.5
SC-119.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-67.5
SC-120.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-75.0
SC-121.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-82.5
SC-122.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Carlisle EcoStorm VSH	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-82.5
SC-123.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	1 per 1.3 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-112.5
SC-124.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-112.5
SC-125.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-112.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-126.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-112.5
SC-127.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1-DWD	Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-112.5
SC-128.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-127.5
SC-129.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1, Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-127.5
SC-130.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Carlisle EcoStorm VSH	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-135.0
SC-131.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2.5-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-150.0
SC-132.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-30.0*
SC-133.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-30.0*
SC-134.	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	Min. 0.625-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5*
SC-135.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.9 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5*
SC-136.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 2.7 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-37.5*

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-137.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Aquabase 120 Water Based BA	-37.5*
SC-138.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	per 4.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-139.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 4.0 ft ²	Mule-Hide PVC / Low VOC PVC Bonding Adhesive or HydroBond WB	-45.0*
SC-140.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-141.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-142.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 3.2 ft ²	Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-143.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-144.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch Poly ISO 1-DWD	Note 2	1 per 3.2 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-145.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-146.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Carlisle EcoStorm VSH	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*
SC-147.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 2.0 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-45.0*
SC-148.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-45.0*

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-149.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Aquabase 120 Water Based BA	-45.0*
SC-150.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Low VOC PVC Bonding Adhesive or HydroBond WB	-45.0*
SC-151.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-52.5
SC-152.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-52.5
SC-153.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 7/16-inch APA rated OSB	Note 2	1 per 1.9 ft ²	Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-52.5
SC-154.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
SC-155.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 7/16-inch APA rated OSB	Note 2	1 per 1.9 ft ²	Mule-Hide PVC or PVC FRS in HydroBond WB	-60.0
SC-156.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
SC-157.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS in HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
SC-158.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS in HydroBond WB	-60.0
SC-159.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-60.0
SC-160.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-67.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-161.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 7/16-inch APA rated OSB	Note 2	1 per 1.9 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-67.5
SC-162.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS / Low VOC PVC Bonding Adhesive	-67.5
SC-163.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-75.0
SC-164.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 1.6 ft ²	Mule-Hide PVC or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-82.5
SC-165.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-82.5
SC-166.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus	Note 2	1 per 1.3 ft ²	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-112.5
SC-167.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	Mule-Hide PVC, Mule-Hide PVC FRS or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-112.5
SC-168.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Note 2	1 per 1.0 ft ²	Mule-Hide PVC or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-112.5
SC-169.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or Carlisle EcoStorm VSH	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-112.5
SC-170.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1-DWD	Note 2	1 per 1.0 ft ²	Mule-Hide PVC or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-112.5
SC-171.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC or PVC FRS in Low VOC PVC Bonding Adhesive or HydroBond WB or Mule-Hide KEE HP in Low VOC PVC Bonding Adhesive	-127.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-172.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC, Mule-Hide PVC FRS or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-127.5
SC-173.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACfoam II	Min. 2.5-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC, Mule-Hide PVC FRS or Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-150.0
FLEECE BACK APPLICATIONS (PARTIAL BOND):							
SC-174.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0*
FLEECE BACK APPLICATIONS (FULL BOND):							
SC-175.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 3.2 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-30.0*
SC-176.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-30.0*
SC-177.	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	Min. 0.625-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 5.3 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5*
SC-178.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 2.9 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5*
SC-179.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-37.5*
SC-180.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-181.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-182.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Note 2	1 per 4.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-183.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Note 2	1 per 4.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-184.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-185.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 4.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-186.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-187.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-188.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-45.0*
SC-189.	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	Min. 0.25-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-52.5
SC-190.	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	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-52.5
SC-191.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1-DWD	Note 2	1 per 2.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
SC-192.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
SC-193.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Note 2	1 per 1.8 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-60.0

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-194.	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	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-60.0
SC-195.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch Poly ISO 1, Poly ISO 1-DWD	Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-67.5
SC-196.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.8 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-67.5
SC-197.	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	Min. 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-75.0
SC-198.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.9 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-75.0
SC-199.	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	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.6 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5
SC-200.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 15/32-inch plywood	Note 2	1 per 1.9 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Aqua Base 120 BA	-82.5
SC-201.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Min. 2-inch Poly ISO 1-DWD	Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5
SC-202.	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, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Note 2	1 per 1.3 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5
SC-203.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.3 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5
SC-204.	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	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5

TABLE 2E: 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	Fastener (Note 2, Note 11)	Attach		
SC-205.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-127.5
SC-206.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2-inch Poly ISO 1 or Poly ISO 1-DWD	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-127.5
SC-207.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-135.0
SC-208.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2-inch Poly ISO 1-DWD, Poly ISO 1-HD-Composite	Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-135.0
SC-209.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Poly ISO 1-HD Composite	Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA-DT (FULL)	-150.0
SC-210.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD, Polyiso HP-N, Polyiso HP-W, ENRGY 3 or ACFoam II	Min. 2.5-inch Poly ISO 1-HD Composite	Steel: Mule-Hide Drill Point Fastener with Mule-Hide 3" Insulation Plate Concrete: Note 2	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-150.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
MULE-HIDE PVC INDUCTION WELD PLATE SYSTEMS:						
SC-211.	Min. 22 ga., type B, Grade 33 steel	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 5.3 ft ² (6 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented perpendicular to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0*
SC-212.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 4.0 ft ² (8 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented parallel to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
SC-213.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/8" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 3.2 ft ² (10 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented parallel to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-67.5
SC-214.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/8" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 2.7 ft ² (12 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented perpendicular to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
SC-215.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/8" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 2.0 ft ² (16 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented perpendicular to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
SC-216.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws with 3/8" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 2.0 ft ² (16 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented perpendicular to the steel deck ribs with adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
SC-217.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws with 3/4" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 1.8 ft ² (18 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented parallel to the steel deck ribs with adjacent boards offset by 6 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-120.0
SC-218.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws with 3/4" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 1.3 ft ² (24 parts per 4x8 ft board) <i>Boards are placed with the 8 ft. dimension oriented parallel to the steel deck ribs with adjacent boards offset by 6 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-150.0
SC-219.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws with 3/4" washers, 6" o.c.	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	1 per 1.0 ft ² (32 parts per 4x8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-150.0
SC-220.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0
SC-221.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
SC-222.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 36-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
SC-223.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0
SC-224.	Min. 20 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
SC-225.	Min. 18 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0
SC-226.	Min. 20 ga., type B, Grade 33 steel; 4.5 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
SC-227.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0
SC-228.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
SC-229.	Min. 20 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0
SC-230.	Min. 18 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
SC-231.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
SC-232.	Min. 20 ga., type B, Grade 33 steel; 5 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
SC-233.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0
SC-234.	Min. 20 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
SC-235.	Min. 18 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5
SC-236.	Min. 20 ga., type B, Grade 33 steel; 5 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5
SC-237.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5
SC-238.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide EHD Fastener and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 36-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-150.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
RHINO BOND SYSTEMS:						
SC-239.	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. Note A.	OMG XHD and RhinoBond Plate (PVC)	1 per 5.3 ft ² (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; Note B	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
SC-240.	Min. 22 ga., type B, Grade 33 steel, 7 ft span, HILTI X-HSN 24, 6" o.c. Side laps HILTI S-SLC 01 M HWH, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. Note C.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC (min. 60-mil) or Mule-Hide KEE HP (min. 60-mil) induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-241.	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Teks 1, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. Note C.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC (min. 60-mil) or Mule-Hide KEE HP (min. 60-mil) induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-242.	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. Note A.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; Note B	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-243.	Min. 22 ga., type B, Grade 40 steel; 6 ft spans; 5/8" puddle welds 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (2 x 2 ft grid pattern)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-244.	Min. 22 ga., type B, Grade 80 steel	Min. 1-inch thick, one or more layers, any combination. Note A.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; Note B	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
SC-245.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination. Note A.	OMG XHD and RhinoBond Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) 2 x 2 ft grid pattern	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
SC-246.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG XHD and RhinoBond Plate (PVC)	12-inch o.c. in rows max. 120-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
SC-247.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG XHD and RhinoBond Plate (PVC)	18-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
SC-248.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG XHD and RhinoBond Plate (PVC)	12-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-249.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG XHD and RhinoBond Plate (PVC)	6-inch o.c. in rows max. 120-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
SC-250.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG XHD and RhinoBond Plate (PVC)	6-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-90.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
<i>Notes:</i> A. For these assemblies, the 8 ft insulation board length is placed perpendicular to the steel deck ribs. B. The plate/fastener combination offset 12 inch from adjacent rows. C. For these assemblies, the 8 ft insulation board length is placed perpendicular to the steel deck ribs and each row of insulation is staggered by 1 foot.						
ISOWELD INDUCTION WELDING SYSTEMS:						
SC-251.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 6 ft ² 2 x 3-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-37.5
SC-252.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 6 ft ² 2 x 3-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-37.5
SC-253.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 4.0 ft ² 2 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-52.5
SC-254.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 4.0 ft ² 2 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-52.5
SC-255.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 3.0 ft ² 1.5 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-82.5
SC-256.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 3.0 ft ² 1.5 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-82.5
SC-257.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch, prelim. attached (Note 5)	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	12-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-45.0
SC-258.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, prelim. attached (Note 5)	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	12-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-45.0
SC-259.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, prelim. attached (Note 5)	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	6-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-90.0

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
SC-260.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC	Mule-Hide EHD Fastener (steel only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	18	5.5	75.5	1.5	-30.0
SC-261.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide PVC Fleece Back	Mule-Hide EHD Fastener (steel only), Mule-Hide HDP Fastener (concrete only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	12	5.5	75.5	1.5	-37.5
SC-262.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC	Mule-Hide EHD Fastener (steel only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	12	5.5	75.5	1.5	-45.0
SC-263.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide PVC Fleece Back	Mule-Hide EHD Fastener (steel only), Mule-Hide HDP Fastener (concrete only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	12	5.5	35.5	1.5	-52.5
SC-264.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide PVC Fleece Back	Mule-Hide EHD Fastener (steel only), Mule-Hide HDP Fastener (concrete only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	6	5.5	75.5	1.5	-52.5
SC-265.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide PVC Fleece Back	Mule-Hide EHD Fastener (steel only), Mule-Hide HDP Fastener (concrete only) or Mule-Hide Fluted Concrete Nail (concrete only) with Mule-Hide 2.4" Seam Plate	6	5.5	35.5	1.5	-82.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
BAREBACK APPLICATIONS:								
C-1.	Min. 2,500 psi structural concrete	Min. 0.5-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)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-157.5
C-2.	Min. 2,500 psi structural concrete	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)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-225.0
C-3.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-157.5
C-4.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-315.0
C-5.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-277.5
C-6.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-315.0
C-7.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-112.5
C-8.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-157.5
C-9.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-397.5
C-10.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-277.5

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

NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-11.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-397.5
C-12.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) “Optim-R” <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-127.5
C-13.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) “Optim-R” <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-397.5
C-14.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-157.5
C-15.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-352.5
C-16.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-277.5
C-17.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-352.5
C-18.	Min. 2,500 psi structural concrete	Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (FULL)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-495.0
C-19.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-112.5

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

NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-20.	Min. 2,500 psi structural concrete	Min. 0.5-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)	Mule-Hide PVC or PVC FRS	HydroBond WB	-60.0
C-21.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-60.0
C-22.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-157.5
C-23.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-180.0
C-24.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-157.5
C-25.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-397.5
C-26.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-277.5
C-27.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	HydroBond WB	-397.5
C-28.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-127.5

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

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-29.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (FULL)	<u>Insulation</u> : Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard</u> : Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	HydroBond WB	-397.5
C-30.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-157.5
C-31.	Min. 2,500 psi structural concrete	(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)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-352.5
C-32.	Min. 2,500 psi structural concrete	(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)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-277.5
C-33.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	HydroBond WB	-352.5
C-34.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-157.5
C-35.	Min. 2,500 psi structural concrete	(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)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-180.0
C-36.	Min. 2,500 psi structural concrete	(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)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-112.5
C-37.	Min. 2,500 psi structural concrete	Min. 0.5-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)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-38.	Min. 2,500 psi structural concrete	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)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-225.0
C-39.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5
C-40.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-315.0
C-41.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-277.5
C-42.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (FULL)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-315.0
C-43.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-112.5
C-44.	Min. 2,500 psi structural concrete	(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 (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Helix Max LRA (RIBBON)	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-67.5
C-45.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5
C-46.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-180.0
C-47.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5

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

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-48.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-397.5
C-49.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-277.5
C-50.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-397.5
C-51.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-127.5
C-52.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-397.5
C-53.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5
C-54.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-352.5
C-55.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-277.5
C-56.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA-DT (FULL)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-352.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-57.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5
C-58.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-180.0
C-59.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-112.5
C-60.	Min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyisocyanurate MP-N, MP-W, ENRGY 3 or ACfoam II	OB500	(Optional) Additional layers of base insulation	OB500	Mule-Hide PVC or PVC FRS	HydroBond WB	-60.0
C-61.	Min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyisocyanurate MP-N, MP-W, ENRGY 3 or ACfoam II	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Mule-Hide PVC or PVC FRS	HydroBond WB	-60.0
C-62.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyisocyanurate MP-N or ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	Mule-Hide PVC or PVC FRS	Low VOC PVC Bonding Adhesive	-127.5
C-63.	Min. 2,500 psi structural concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyisocyanurate MP-W or ACfoam II	OB500	(Optional) Additional layers of base insulation	OB500	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-150.0
C-64.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyisocyanurate MP-N or ENRGY 3	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-127.5
C-65.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD, Polyisocyanurate MP-W or ACfoam II	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-150.0
FLEECE BACK APPLICATIONS (PARTIAL BOND):								
C-66.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
FLEECE BACK APPLICATIONS (FULL BOND):								
C-67.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-157.5
C-68.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-157.5
C-69.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-157.5
C-70.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-397.5
C-71.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-277.5
C-72.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-397.5
C-73.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-127.5
C-74.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	HydroBond WB	-397.5
C-75.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-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)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-76.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5
C-77.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-397.5
C-78.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-277.5
C-79.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-457.5
C-80.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5
C-81.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-187.5
C-82.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5
C-83.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-322.5
C-84.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-277.5

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

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-85.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-322.5
C-86.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5
C-87.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-397.5
C-88.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-277.5
C-89.	Min. 2,500 psi structural concrete	(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 (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-397.5
C-90.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-127.5
C-91.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1-HD	Helix Max LRA-DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-397.5
C-92.	Min. 2,500 psi structural concrete	Min. 0.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5
C-93.	Min. 2,500 psi structural concrete	(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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-187.5

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

 NOTE: REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-94.	Min. 2,500 psi structural concrete	(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)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-112.5

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

 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Top Ply	
C-95.	Min. 2,500 psi structural concrete	(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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-165.0

TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
MULE-HIDE PVC INDUCTION WELD PLATE SYSTEMS:						
C-96.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 5.3 ft ² (6 parts per 4x8 ft board) <i>Adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0*
C-97.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 4.0 ft ² (8 parts per 4x8 ft board) <i>Adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
C-98.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 3.2 ft ² (10 parts per 4x8 ft board) <i>Adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-67.5

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
C-99.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 2.7 ft ² (12 parts per 4x8 ft board) <i>Adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
C-100.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 2.0 ft ² (16 parts per 4x8 ft board) <i>Adjacent boards offset by 12 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5
C-101.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 1.8 ft ² (18 parts per 4x8 ft board) <i>Adjacent boards offset by 6 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-120.0
C-102.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 1.3 ft ² (24 parts per 4x8 ft board) <i>Adjacent boards offset by 6 in. to stagger the fastener/plate fastening pattern</i>	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-172.5
C-103.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination.	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	1 per 1.0 ft ² (32 parts per 4x8 ft board)	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-217.5
C-104.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0
C-105.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
C-106.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 72-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-75.0
C-107.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	12-inch o.c. in rows 36-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
C-108.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
C-109.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 48-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
C-110.	Min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide HDP Fastener or Mule-Hide Fluted Concrete Nail and Mule-Hide PVC Induction Weld Plate	6-inch o.c. in rows 36-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-150.0
RHINOBOND SYSTEMS:						
C-111.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	1 per 5.3 ft ² (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; Note A	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
C-112.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; Note A	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
C-113.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination.	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) 2 x 2 ft grid pattern	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
C-114.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	Max. 12-inch o.c. in rows max. 120-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
C-115.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	Max. 18-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
C-116.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	Max. 12-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
C-117.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	Max. 6-inch o.c. in rows max. 120-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
C-118.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, prelim. attached (Note 5)	OMG Heavy Duty Concrete Fastener or OMG CD-10 and RhinoBond Plate (PVC)	Max. 6-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-90.0
Notes:	A. The plate/fastener combination offset 12 inch from adjacent rows.					
ISOWELD INDUCTION WELDING SYSTEMS:						
C-119.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 6 ft ² 2 x 3-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-37.5
C-120.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, prelim. attached (Note 5)	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	Max. 12-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-45.0

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density / Pattern		
C-121.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 4.0 ft ² 2 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-52.5
C-122.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	1 per 3.0 ft ² 1.5 x 2-ft grid, staggered	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-82.5
C-123.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, prelim. attached (Note 5)	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC)	Max. 6-inch o.c. in rows max. 60-inch o.c.	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-90.0

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

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
C-124.	Min. 2,500 psi structural concrete	None	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-495.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
BAREBACK MEMBRANE APPLICATIONS:								
LWC-1	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-52.5
LWC-2	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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-52.5
LWC-3	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-75.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-4	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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-75.0
LWC-5	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-187.5
LWC-6	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-187.5
LWC-7	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-187.5
LWC-8	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-350.0
LWC-9	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-350.0
LWC-10	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-350.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-11	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / HydroBond WB	-52.5
LWC-12	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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / HydroBond WB	-52.5
LWC-13	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / HydroBond WB	-75.0
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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / HydroBond WB	-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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / HydroBond WB	-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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / HydroBond WB	-350.0
LWC-17	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-52.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-52.5
LWC-19	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-75.0
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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-75.0
LWC-21	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-187.5
LWC-23	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-187.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-24	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC or PVC FRS / Low VOC PVC Bonding Adhesive	-350.0
LWC-25	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-350.0
LWC-26	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide KEE HP / Low VOC PVC Bonding Adhesive	-350.0
FLEECE BACK MEMBRANE APPLICATIONS (FULL BOND):								
LWC-27	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-52.5
LWC-28	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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-52.5
LWC-29	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-75.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-30	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, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-75.0
LWC-31	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-187.5
LWC-32	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-187.5
LWC-33	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-187.5
LWC-34	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-350.0
LWC-35	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or min. 2-inch Poly ISO 1-HD-Composite or min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-350.0

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
LWC-36	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-350.0

**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	DECK (Note 1)	Lightweight Concrete (Note 14)		Supplemental Attachment		Roof Cover (Note 15)		MDP (psf)
		Type	Treatment	Fastener	Attach	Type	Attach	
CELCORE (FL2037):								
BAREBACK APPLICATIONS:								
LWC-37	Min. 24 ga., Type 1.0FDV Grade 80 steel at max. 6 ft spans; 5/8" puddle welds with weld washers, 8-inch o.c.	Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 370 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	None	None	N/A	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-37.5
LWC-38	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½-inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). Note A.	None	None	N/A	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-60.0
LWC-39	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½-inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). Note A.	None	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 9.0 ft²	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-67.5
LWC-40	Min. 22 ga., Type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6-inch o.c.	Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 310 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	None	None	N/A	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-82.5
LWC-41	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½-inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). Note A.	None	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 1.0 ft²	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-90.0
FLEECE BACK APPLICATIONS (PARTIAL BOND):								
LWC-42	Min. 24 ga., Type 1.0FDV Grade 80 steel at max. 6 ft spans; 5/8" puddle welds with weld washers, 8-inch o.c.	Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 370 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5

**TABLE 4b: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	DECK (Note 1)	Lightweight Concrete (Note 14)		Supplemental Attachment		Roof Cover (Note 15)		MDP (psf)
		Type	Treatment	Fastener	Attach	Type	Attach	
LWC-43	Min. 22 ga., Type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6- inch o.c.	Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 310 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-82.5
FLEECE BACK APPLICATIONS (FULL BOND):								
LWC-44	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½- inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2- inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS hole board). Note A.	None	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-60.0
LWC-45	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½- inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2- inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS hole board). Note A.	None	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 9.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-67.5
LWC-46	Min. 22 ga., Type B, Grade 33 vented steel at max. 4 ft spans attached with puddle welds with 3/8-inch weld- washers spaced 6- inch o.c.	Min. 38 pcf wet cast density, min. 200 psi, min. 2- inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS hole board). Note A.	Celcore PVA	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-67.5
LWC-47	Min. 22 ga., Type B, Grade 33 vented steel at max. 6 ft spans attached with ½- inch dia. puddle welds with weld-washers spaced 6-inch o.c.	Min. 36 pcf wet cast density, min. 200 psi, min. 2- inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS hole board). Note A.	None	Mule-Hide HDP Fastener with Mule-Hide 3" Insulation Plate	1 per 1.0 ft ²	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-120.0
ELASTIZELL (FL4994):								
BAREBACK APPLICATIONS:								
LWC-48	Min. 20 ga., Type BV, Grade 33 steel; max. 6-ft 3-inch spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-52.5
LWC-49	Min. 22 ga., Type BV, Grade 33 steel; max. 6-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS hole board required)	None	None	N/A	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-82.5
LWC-50	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 1-inch thick, minimum 1.0 pcf EPS hole board required)	None	None	N/A	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-97.5

**TABLE 4b: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	DECK (Note 1)	Lightweight Concrete (Note 14)		Supplemental Attachment		Roof Cover (Note 15)		MDP (psf)
		Type	Treatment	Fastener	Attach	Type	Attach	
LWC-51	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	one	N/A	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-112.5
FLEECE BACK APPLICATIONS (FULL BOND):								
LWC-52	Min. 20 ga., Type BV, Grade 33 steel; max. 6-ft 3-inch spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-52.5
LWC-53	Min. 22 ga., Type BV, Grade 33 steel; max. 6-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-82.5
LWC-54	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 1-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-97.5
LWC-55	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-112.5

**TABLE 4c: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Roof Cover (Note 15)		MDP (psf)
			Membrane	Application	
BAREBACK APPLICATIONS:					
LWC-56	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). Note A.	Mule-Hide PVC	Low VOC PVC Bonding Adhesive	-90.0
LWC-57	Min. 2,500 psi structural concrete	CONCRECEL (FL5584 & FL10500): Min. 350 psi, min. 2.5-inch thick, Concrecel Lightweight Insulating Concrete (EPS board optional)	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-330.0
LWC-58	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; Note: To qualify the LWIC under this assembly, an OMG CR-R Assembled Base Sheet Fastener (1.7 in.) shall achieve a Minimum Characteristic Resistance Force (MCRF) of 101 lbf or greater when tested per TAS 105.	Mule-Hide KEE HP	Low VOC PVC Bonding Adhesive	-330.0
FLEECE BACK APPLICATIONS (FULL BOND):					
LWC-59	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). Note A.	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-232.5
LWC-60	Min. 2,500 psi structural concrete	ELASTIZELL (FL4994): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-240.0
LWC-61	Min. 2,500 psi structural concrete	ELASTIZELL (FL4994): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (no EPS board)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-250.0
LWC-62	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; Note: To qualify the LWIC under this assembly, an OMG CR-R Assembled Base Sheet Fastener (1.7 in.) shall achieve a Minimum Characteristic Resistance Force (MCRF) of 101 lbf or greater when tested per TAS 105.	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA-DT (SPATTER at 3.5-4.0 lbs/sq)	-345.0

Notes: A. If the type of LWC to be used on the project is unknown, as in a re-roof (tear-off) condition, compressive strength and fastener withdrawal resistance testing shall be conducted. Compressive strength testing shall be in accordance with ASTM C495 (for new pour) or ASTM C109 (for existing) and shall yield a minimum 200 psi result. Field withdrawal resistance testing in accordance with [TAS 105](#) or [ANSI/SPRI FX-1](#) shall yield an average withdrawal performance not less than 55 lbf with a Trufast FM-90 Base Sheet Fastener. If question exists as to the adhesion to the LWC surface, field testing in accordance with ASTM E907 or [FM Loss Prevention Data Sheet 1-52](#) is recommended. All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction

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

REFER TO [NOTE 17](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
BAREBACK APPLICATIONS:								
CFW-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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-82.5
CFW-2	Min. 2-inch Tectum Plank	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 (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-82.5
CFW-3	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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond Bonding Adhesive	-82.5
CFW-4	Min. 2-inch Tectum Plank	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 (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond Bonding Adhesive	-82.5
CFW-5	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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-82.5
CFW-6	Min. 2-inch Tectum Plank	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 (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-82.5
CFW-7	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-277.5

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

REFER TO [NOTE 17](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
CWF-8	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Mule-Hide PVC or PVC FRS	HydroBond Bonding Adhesive	-277.5
CWF-9	Min. 2-inch Tectum Plank	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-277.5
CWF-10	Min. 2-inch Tectum Plank	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond Bonding Adhesive	-277.5
FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):								
CWF-11	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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH or Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5
CWF-12	Min. 2-inch Tectum Plank	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 (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-82.5

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

REFER TO [NOTE 17](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
CFW-13	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-277.5
CFW-14	Min. 2-inch Tectum Plank	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD Plus or Carlisle EcoStorm VSH or min. 1.5-inch Poly ISO 1-HD Composite	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-277.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER 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 Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
BAREBACK APPLICATIONS:										
CFW-15	Min. 2-inch Tectum Plank	SureMB 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. in two 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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / AeroWeb PVC	-30.0
CFW-16	Min. 2-inch Tectum Plank	SureMB 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. in two 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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS / HydroBond B-A	-30.0
CFW-17	Min. 2-inch Tectum Plank	SureMB 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. in two 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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP / Low VOC PVC Bonding Adhesive	-30.0

TABLE 5B: CEMENTITIOUS WOOD FIBER 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 Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fastener (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
FLEECEBACK APPLICATIONS (FULL BOND):										
CWF-18	Min. 2-inch Tectum Plank	SureMB 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. in two 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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-30.0

TABLE 5c: CEMENTITIOUS WOOD FIBER 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)
			Type	Attach	
CWF-19	Min. 2-inch Tectum Plank	None	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (RIBBONS 12-inch o.c.) or Helix Max LRA-DT (RIBBONS 12-inch o.c.)	-105.0
CWF-20	Min. 2-inch Tectum Plank	None	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL) or Helix Max LRA-DT (FULL)	-601.5

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

System No.	Deck (Notes 1&12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
BAREBACK APPLICATIONS:								
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)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-237.5
G-2.	Existing gypsum deck	Nominal 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-352.5
G-3.	Existing gypsum deck	Min. 0.5-inch Poly ISO 1-HD, SecurShield HD Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-397.5
G-4.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-495.0
G-5.	Existing gypsum deck	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-157.5

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

System No.	Deck (Notes 1&12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
G-6.	Existing gypsum deck	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-180.0
G-7.	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-237.5
G-8.	Existing gypsum deck	Nominal 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-352.5
G-9.	Existing gypsum deck	Min. 0.5-inch Poly ISO 1-HD, SecurShield HD Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-397.5
G-10.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-495.0
G-11.	Existing gypsum deck	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-157.5
G-12.	Existing gypsum deck	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-180.0
G-13.	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-237.5
G-14.	Existing gypsum deck	Nominal 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-352.5
G-15.	Existing gypsum deck	Min. 0.5-inch Poly ISO 1-HD, SecurShield HD Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-397.5
G-16.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-495.0
FLEECE BACK APPLICATIONS (PARTIAL BOND):								
G-17.	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0
G-18.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-45.0
FLEECE BACK APPLICATIONS (FULL BOND):								
G-19.	Existing gypsum deck	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-157.5

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

System No.	Deck (Notes 1&12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
G-20.	Existing gypsum deck	Min. 2-inch Poly ISO 1-NB	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-187.5
G-21.	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, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-237.5
G-22.	Existing gypsum deck	(Optional) Min. 1-inch Insulfoam IX, XIV or XV	Helix Max LRA (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Insulfoam SP	Helix Max LRA (FULL)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-295.0
G-23.	Existing gypsum deck	Nominal 0.5-inch Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-352.5
G-24.	Existing gypsum deck	Min. 0.5-inch Poly ISO 1-HD, SecurShield HD Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-397.5
G-25.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-495.0

**TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1 and Note 12)	Primer	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
G-26.	Existing gypsum deck	None	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL)	-295.0

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

^A The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
BAREBACK APPLICATIONS:								
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	(Optional) Min. 1-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. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-145.0
R-2.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-145.0
R-3.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-145.0
R-4.	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, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-167.0
R-5.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-167.0

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

^A The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
R-6.	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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-302.5
R-7.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC or PVC FRS	AeroWeb PVC	-302.5
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, 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 DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-167.0
R-9.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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 DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC or PVC FRS	HydroBond WB	-167.0
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. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-302.5
R-11.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC or PVC FRS	HydroBond WB	-302.5

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, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
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	(Optional) Min. 1-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. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-145.0
R-13.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-145.0
R-14.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-145.0
R-15.	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, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-167.0
R-16.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-167.0
R-17.	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. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-302.5

**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, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
R-18.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC, PVC FRS or KEE HP	Low VOC PVC Bonding Adhesive	-302.5
FLEECE BACK APPLICATIONS (PARTIAL BOND):								
R-19.	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	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5
R-20.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5
R-21.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 12-inch o.c.)	-37.5
FLEECE BACK APPLICATIONS (FULL BOND):								
R-22.	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	(Optional) Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-145.0
R-23.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-145.0

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

^A The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
R-24.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch Poly ISO 1-NB or Poly ISO 1-HD-Composite	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-145.0
R-25.	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, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-167.0
R-26.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch Poly ISO 1, 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-167.0
R-27.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-167.0
R-28.	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 over structural concrete deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-302.5

**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, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
R-29.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed) over structural concrete deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Poly ISO 1-HD, Poly ISO 1-HD-Plus or Carlisle EcoStorm VSH	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	None	N/A	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (FULL) or HydroBond WB	-302.5

**TABLE 7B: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

^A The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to 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 and Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base	Application	
FLEECE BACK MEMBRANE APPLICATIONS (FULL BOND):								
R-30.	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	(Optional) Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-165.0
R-31.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1.5-inch Poly ISO 1, Poly ISO 1-DWD	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Helix Max LRA or Helix Max LRA-DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-165.0
R-32.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	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.)	<u>None</u>	N/A	SureMB 90TG or 120TG / torch-applied	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back / Helix Max LRA or Helix Max LRA-DT (FULL)	-165.0

TABLE 7c: STEEL - RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER

All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin

System No.	Substrate (Note 1)	Insulation Layer	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Spacing		
MULE-HIDE PVC INDUCTION WELD PLATE SYSTEMS:						
R-33.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-45.0
R-34.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 48-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-60.0
R-35.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 36-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-82.5
R-36.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-90.0
R-37.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 48-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-112.5
R-38.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 36-inch o.c.	Min. 2-inch thick, one or more layers, any combination, prelim. attached (Note 5)	Mule-Hide PFC Purlin Drill Point Fastener and Mule-Hide PVC Induction Weld Plate	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with Trufast Induction Welding Tool and Magnets	-150.0
RHINO BOND SYSTEMS:						
R-39.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 120-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	OMG Purlin Fastener or RetroDriller Fastener and RhinoBond Insulation Plate (PVC) are fastened through to purlins	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
R-40.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	OMG Purlin Fastener or RetroDriller Fastener and RhinoBond Insulation Plate (PVC) are fastened through to purlins	Max. 18-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-37.5

TABLE 7c: STEEL - RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER

All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin

System No.	Substrate (Note 1)	Insulation Layer	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Spacing		
R-41.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	OMG Purlin Fastener or RetroDriller Fastener and RhinoBond Insulation Plate (PVC) are fastened through to purlins	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
R-42.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 120-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	OMG Purlin Fastener or RetroDriller Fastener and RhinoBond Insulation Plate (PVC) are fastened through to purlins	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
R-43.	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	OMG Purlin Fastener or RetroDriller Fastener and RhinoBond Insulation Plate (PVC) are fastened through to purlins	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with RhinoBond tool per manufacturer's instructions.	-90.0
ISOWELD INDUCTION WELDING SYSTEM:						
R-44.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	SFS DEKFAST DF-#12-PC-SQ3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC) are fastened through to purlins	Max. 12-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-45.0
R-45.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim. attached (Note 5)	SFS DEKFAST DF-#12-PC-SQ3 with SFS <i>isoweld</i> ® PVC Plate (FI-P-6.8-PVC) are fastened through to purlins	Max. 6-inch o.c. along purlins	Mule-Hide PVC or Mule-Hide KEE HP induction welded with SFS <i>isoweld</i> ® 3000 tool.	-90.0

TABLE 7b: STEEL - RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER

All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.

System No.	Deck (Note 1)	Insulation		Roof Cover (Note 15A)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Attachment	
R-46.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 75.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	18-inch o.c. within 5.5-inch wide laps spaced max. 75.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-30.0
R-47.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 75.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 75.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-45.0
R-48.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide KEE HP	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-45.0
R-49.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 75.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide KEE HP	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 75.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-50.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 35.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	12-inch o.c. within 5-inch wide laps spaced max. 35.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-51.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 35-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 35-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0
R-52.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide KEE HP	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-67.5
R-53.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	prelim. attach	Min. 60-mil Mule-Hide PVC or Mule-Hide KEE HP	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-75.0
R-54.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 35.5-inch o.c.	One or more layers, any combination	prelim. attach	Mule-Hide PVC or Mule-Hide KEE HP	OMG Purlin Fastener or RetroDriller Fastener with OMG 2-3/8 XHD Barbed Stress Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 35-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-82.5

**TABLE 7E: 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 adhered to 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 and Note 12)	Roof Cover (Note 15)		MDP (psf)
		Type	Attach	
FLEECE BACK APPLICATIONS (PARTIAL BOND):				
R-55.	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	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA or Helix Max LRA-DT (RIBBON, 6-inch o.c.)	-177.0
FLEECE BACK APPLICATIONS (FULL BOND):				
R-56.	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	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA (FULL)	-177.0
R-57.	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	Mule-Hide PVC Fleece Back, PVC FRS Fleece Back, KEE HP Fleece Back or KEE HP FRS Fleece Back	Helix Max LRA-DT (FULL)	-635.0

FBC NON-HVHZ

TABLE 8A: HILTI PART / SUPPORT THICKNESS LIMITATIONS¹

HILTI PART	STEEL SUPPORTING MEMBER THICKNESS (INCH)
X-ENP-19 L15, X-ENP-19 L15MX or X-ENP-19 L15MXR	$t \geq 0.25$
X-EDN19 THQ12 or X-EDN19 THQ12M	$0.25 \leq t \leq 0.375$
X-EDNK22 THQ12 or X-EDNK22 THQ12M	$t = 0.25$
X-HSN 24	$0.125 \leq t \leq 0.375$
S-MD 12-24 x 1-5/8 M HWH5	$0.125 < t \leq 0.25$

TABLE 8B: HILTI PART / TYPE B STEEL DECK ATTACHMENT-SPAN LIMITATIONS¹

HILTI PART	MAX. SPACING (INCH O.C.)	MAX. ALLOWABLE DESIGN PRESSURE (PSF)	MAX. SPAN (INCHES)					
			Min. 22 ga. steel		Min. 20 ga. steel		Min. 18 ga. steel	
			Min. 33 ksi	Min. 80 ksi	Min. 33 ksi	Min. 80 ksi	Min. 33 ksi	Min. 80 ksi
X-ENP-19 L15 X-ENP-19 L15MX X-ENP-19 L15MXR X-EDN19 THQ12 X-EDN19 THQ12M X-EDNK22 THQ12 X-EDNK22 THQ12M X-HSN 24 or S-MD 12-24 x 1-5/8 M HWH5	12	-45.0	72	72	72	72	72	72
	6	-82.5*	72	72	72	72	72	72
	6	-90.0*	68	72	72	72	72	72
	6	-97.5*	63	72	72	72	72	72
	6	-105.0*	59	72	72	72	72	72
	6	-112.5*	55	72	67	72	72	72
	6	-120.0*	51	72	63	72	72	72
	6	-127.5*	48	72	59	72	72	72
	6	-135.0*	45	72	56	72	72	72
	6	-142.5*	43	72	53	72	72	72
	6	-150.0*	41	72	50	72	69	72
	6	-157.5*	39	71	48	72	65	72
	6	-165.0*	37	68	46	72	62	72
	6	-165.0*	35	65	44	72	60	71
	6	-172.5*	34	62	42	72	57	68
	6	-180.0*	33	60	40	72	55	65
	6	-187.5*	31	57	39	71	53	62
	6	-195.0*	30	55	37	68	51	60
6	-202.5*	29	53	36	66	49	58	
6	-210.0*	28	51	36	63	47	56	
6	-217.5*	27	50	33	61	46	54	
6	-225.0*	26	48	32	59	44	52	

*Limited to fully or partially adhered roof coverings.

¹ Information is provided as guidance for use at the discretion of the Designer or Record and Authority Having Jurisdiction. Neither NEMO|etc. nor Robert Nieminen, P.E. purport to evaluate Hilti fasteners for compliance with the Florida Building Code.