



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

CERTIFY

EVALUATION REPORT

Sika Sarnafil, Inc.
100 Dan Road
Canton, MA 02021
(781) 828-5400

Evaluation Report 4749.04.06-R15
FL9274-R13
Date of Issuance: 07/30/2007
Revision 15: 02/09/2018

SCOPE:

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

DESCRIPTION: Sika Sarnafil Roof Systems

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

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

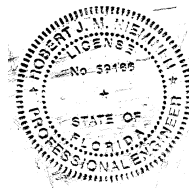
ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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

This Evaluation Report consists of pages 1 through 5, plus a 43-page Appendix.

Prepared by:

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



The facimile seal appearing was authorized by Robert Nieminen, P.E. on 02/09/2018. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Single Ply Roof Systems
Compliance Statement: Sika Sarnafil Roof Systems, as produced by Sika Sarnafil, Inc., have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2011
1504.7	Impact	FM 4470	2012
1507.11.2	Physical Properties	ASTM D6163	2008
1507.11.2	Physical Properties	ASTM D6164	2011
1507.13.2	Physical Properties	ASTM D4434	2012

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ACRC (TST4671)	TAS 114(J)	17-013	05/19/2017
ACRC (TST4671)	TAS 114(J)	17-015	09/06/2017
ERD (TST6049)	Physical Properties	4757.12.02-1	12/13/2002
ERD (TST6049)	Physical Properties	4757.12.02-2	12/13/2002
ERD (TST6049)	FM 4470/4474	01090.01.03-1	01/22/2003
ERD (TST6049)	FM 4470/4474	2778.07.05-1	07/15/2005
ERD (TST6049)	Physical Properties	S44790.08.13	08/26/2013
ERD (TST6049)	FM 4470/4474	S36600.03.14	03/04/2014
ERD (TST6049)	Physical Properties	S45990.06.14	06/02/2014
ERD (TST6049)	Physical Properties	S11440.11.10-3-R2	08/26/2014
ERD (TST6049)	FM 4470/4474	SC7090.07.14-2-R2	09/03/2014
ERD (TST6049)	Physical Properties	S43400.08.14-4-R1	11/24/2014
ERD (TST6049)	Physical Properties	S44790.06.13-R1	06/01/2015
ERD (TST6049)	Physical Properties	S44790.07.14-R2	06/01/2015
ERD (TST6049)	Physical Properties	SIKA-SC8175.06.15	06/01/2015
ERD (TST6049)	FM 4470/4474	SC7090.07.14-2-R6	09/29/2015
ERD (TST6049)	Physical Properties	SIKA-SC7935.05.15-R2	04/28/2016
ERD (TST6049)	FM 4470/4474	SIKA-SC11570.06.16	06/29/2016
FM Approvals (TST1867)	FM 4470	0X3A3.AM	01/31/1994
FM Approvals (TST1867)	FM 4470	3012964	06/11/2002
FM Approvals (TST1867)	FM 4470	3015643	12/06/2002
FM Approvals (TST1867)	FM 4470	3016201	01/28/2003
FM Approvals (TST1867)	FM 4470	3006785	05/06/2004
FM Approvals (TST1867)	FM 4470/4474	3017292	09/03/2004
FM Approvals (TST1867)	FM 4470/4474	3021131	07/07/2005
FM Approvals (TST1867)	FM 4470/4474	3024229	11/16/2005
FM Approvals (TST1867)	FM 4470/4474	3023458	07/18/2006
FM Approvals (TST1867)	FM 4470/4474	3024311	11/01/2006
FM Approvals (TST1867)	FM 4470/4474	3028309	03/30/2007
FM Approvals (TST1867)	FM 4470/4474	3030053	09/12/2007
FM Approvals (TST1867)	FM 4470/4474	797-044262-267	03/27/2009
FM Approvals (TST1867)	FM 4470/4474	3035670	05/13/2009
FM Approvals (TST1867)	FM 4470/4474	3036355	11/10/2009
FM Approvals (TST1867)	FM 4470/4474	3041535	06/08/2011

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
FM Approvals (TST1867)	FM 4470/4474	3039809	07/06/2011
FM Approvals (TST1867)	FM 4470/4474	3041256	07/12/2011
FM Approvals (TST1867)	FM 4470/4474	3043459	05/11/2012
FM Approvals (TST1867)	FM 4470/4474	3053265	10/30/2014
FM Approvals (TST1867)	FM 4470/4474	3055111	07/07/2015
FM Approvals (TST1867)	FM 4470/4474	3055167	02/10/2016
FM Approvals (TST1867)	FM 4470/4474	3055491 (data)	02/10/2016
FM Approvals (TST1867)	FM 4470/4474	3057006	06/21/2017
PRI (TST5878)	TAS 114(D)	SARN-086-02-01	11/01/2017
Miami-Dade (CER1592)	Elastizell Ratings	13-0617.20	09/05/2013
Miami-Dade (CER1592)	Quality Control	PLA	01/04/2016
UL, LLC. (QUA9625)	Quality Control	ML File No. R8992	03/02/2016
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	Exp. 01/30/2021

4. PRODUCT DESCRIPTION:

The following roof covers are mechanically attached or fully adhered to Approved substrates using fasteners, stress plates and adhesives, as outlined in the Limitations / Conditions of Use herein.

4.1 Membranes:

- 4.1.1 **S327 or Textured S327** is a nominal 48-mil (1.2 mm), 60-mil (1.5 mm), 72 mil (1.8 mm) or 80 mil (2.0 mm) thick, polyester scrim reinforced, single-ply roof membrane coated with a proprietary PVC compound; meets ASTM D4434-12, Type III.
- 4.1.2 **S327 Feltback** is a nominal 48-mil (1.2 mm), 60-mil (1.5 mm), 72 mil (1.8 mm) or 80 mil (2.0 mm) thick, polyester scrim reinforced, single-ply roof membrane coated with a proprietary PVC compound and a felt backing; meets ASTM D4434-12, Type III.
- 4.1.3 **Sikaplan Fastened** is a nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, polyester scrim reinforced, single-ply roof membrane coated with a proprietary PVC compound; meets ASTM D4434-12, Type III.
- 4.1.4 **Sikaplan Fastened Feltback** is a nominal 60-mil (1.5 mm) thick, polyester scrim reinforced, single-ply roof membrane coated with a proprietary PVC compound and a felt backing; meets ASTM D4434-12, Type III.
- 4.1.5 **Sikaplan Adhered** is a nominal 60-mil (1.5 mm) thick, fiberglass mat reinforced, single-ply roof membrane coated with a proprietary PVC compound; meets ASTM D4434-12, Type II.
- 4.1.6 **Sikaplan Adhered Feltback** is a nominal 60-mil (1.5 mm) thick, fiberglass mat reinforced, single-ply roof membranes coated with a proprietary PVC compound and a felt backing; meets ASTM D4434-12, Type III.
- 4.1.7 **G410 or Textured G410** are a nominal 60-mil (1.5 mm), 72 mil (1.8 mm) or 80 mil (2.0 mm) thick, fiberglass mat reinforced, single-ply roof membranes coated with a proprietary PVC compound; meets ASTM D4434-12, Type II.
- 4.1.8 **G410 Feltback** are a nominal 48-mil (1.2 mm), 60-mil (1.5 mm), 72 mil (1.8 mm) or 80 mil (2.0 mm) thick, fiberglass mat reinforced, single-ply roof membranes coated with a proprietary PVC compound and a felt backing; meets ASTM D4434-12, Type III.

4.2 Base Sheets & Base Plys:

- 4.2.1 **Base Sheet NB 48** is a fiberglass reinforced, modified asphalt base sheet; meets ASTM D4601.
- 4.2.2 **Ply Sheet HA 87** is a fiberglass reinforced, SBS modified bitumen base ply membrane with sanded top and bottom surfaces; meets ASTM D6163.
- 4.2.3 **Ply Sheet TA 87** is a fiberglass reinforced, SBS modified bitumen base ply membrane with sanded top surface and poly-film bottom surface; meets ASTM D6163.
- 4.2.4 **Vapor Retarder SA 106** is a polyester reinforced, SBS modified bitumen base ply membrane with a sanded top surface and self-adhering bottom surface; meets ASTM D6164.

- 4.2.5 **Vapor Retarder TA 138** is a polyester reinforced, SBS modified bitumen base ply membrane with a sanded top surface and self-adhering bottom surface; meets ASTM D6164.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in **FBC HVHZ** jurisdictions.
- 5.3 Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance with **FBC 2603.4** unless the exceptions stated in **FBC 2603.4.1** and **2603.6** apply.
- 5.5 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- 5.6 For recover installations, the existing roof shall be examined in accordance with **FBC 1511**.
- 5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016)** for Zone 2/3 enhancements.
- 5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.11 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with **ANSI/SPRI ES-1** or **Roofing Application Standard RAS 111**, except the basic wind speed shall be determined from **FBC Figure 1609.3(1)**, **1609.3(2)** or **1609.3(3)**.
- 5.13 All products in the roof assembly shall have quality assurance in accordance with **FAC Rule 61G20-3**.

6. INSTALLATION:

- 6.1 **Sika Sarnafil Roof Systems** shall be installed in accordance with **Sika Sarnafil** published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 6.3 For mechanically fastened membrane systems (Type D) over profiled steel deck, membrane shall be installed running perpendicular to steel deck flutes.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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

9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (847) 664-3623; LeAnna.Gradeck@ul.com

- THE 43-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description	Page
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	5
1B	Wood	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	5
1C	Wood	New, Reroof (Tear-Off) or Recover	C-1A	Mech. Attached Insulation, Bonded Roof Cover	6
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1A	Mech. Attached Insulation, Bonded Base Ply, Bonded Roof Cover	6
1E	Wood	New, Reroof (Tear-Off) or Recover	C-2	Mech. Attached Insulation, Plate-Bonded Roof Cover	6
2A	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7-8
2B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover	9
2C	Steel	New, Reroof (Tear-Off) or Recover	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	10-11
2D	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1A	Mech. Attached Insulation, Bonded Roof Cover	12-14
2E	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1A	Mech. Attached Insulation, Bonded Base Ply, Bonded Roof Cover	15-16
2F	Steel	New, Reroof (Tear-Off) or Recover	C-1B	Mech. Attached and Bonded Insulation, Bonded Roof Cover	17
2G	Steel	New, Reroof (Tear-Off) or Recover	C-1B	Mech. Attached and Bonded Insulation, Bonded Roof Cover	17
2H	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Mech. Attached Insulation, Plate-Bonded Roof Cover	18-19
2I	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Membrane – Stress Plates and Fasteners	20-21
2J	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Membrane – Battens and Fasteners	21-22
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	23-25
3B	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	26
3C	Structural concrete	New	F	Non-Insulated, Bonded Roof Cover	26
4A	LWIC	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	27-28
4B	LWIC	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	29
4C	LWIC	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	30-34
4D	LWIC	New or Reroof (Tear-Off)	E-1	LWC to Deck, Mechanically Attached Base Sheet, Bonded Base Ply, Bonded Roof Cover	34-35
4E	LWIC	New or Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	36-37
5A	CWF	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	38-39
5B	CWF	New, Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	39
6A	Gypsum	Reroof (Tear-Off)	E-1	Mechanically Attached Base Sheet, Bonded Base Ply, Bonded Roof Cover	40
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	41-42
7B	Steel	Recover	C-2	Mech. Attached Insulation, Plate Bonded Roof Cover	43
7C	Various	Recover	F	Non-Insulated, Bonded Roof Cover	43

The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Fasteners shall be of sufficient length for the following engagements, and shall be corrosion resistant. The roofing screws and plates noted herein are corrosion resistant in accordance with Testing Application Standard TAS 114, Appendix E per FBC 1506.6.
 - Wood Deck: Sarnafastener #12 or Sarnafastener #14 with Sarnaplate; Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel Deck: Sarnafastener #12 or Sarnafastener #14 with Sarnaplate; Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
 - Structural Concrete: Sarnafastener #14 with Sarnaplate; Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, gypsum-based roof board or mineral wool roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for, or installed below the rigid insulation board for System Type C-2 (plate-bonded roof cover) or System Type D-1 (mechanically attached membrane), whereby the membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
5. Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to FM Loss Prevention Data Sheet 1-29 (January 2016).
6. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
 - Hot Asphalt (HA): Full mopping, 25-30 lbs/square.
 - Dow INSTA STIK Quik Set Insulation Adhesive (Insta-Stik): Continuous 0.75 to 1-inch beads, 12-inch o.c.
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c. *Note: OMG OlyBond 500 may be used where Sarnacol OM Board Adhesive is referenced.*
 - Sarnacol 2163: Continuous 0.5-inch beads, 12-inch o.c. *Note: Millennium One Step Foamable Adhesive may be used where Sarnacol 2163 is referenced.*
 - Sarnacol AD Board Adhesive (Sarnacol AD-BA): Continuous ½ to ¾-inch beads, 12-inch o.c. *Note: Millennium PG-1 Pump Grade Adhesive may be used where Sarnacol AD Board Adhesive is referenced*
 - OlyBond Classic (OB Classic): Full coverage at 1 gal./square
 - ICP Adhesives CR-20: Continuous 2.5 to 3.5-inch ribbons, 12-inch o.c.
 - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
 - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*
7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table:
 - Sarnacol 2163: MDP: -157.5 psf (Min. 0.5-inch thick)
 - Sarnacol AD Board Adhesive (Sarnacol AD-BA): MDP: -157.5 psf (Min. 0.5-inch thick)
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): MDP: -45.0 psf (Min. 0.5-inch thick Sarnatherm r, Multi-Max FA3)
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): MDP: -187.5 psf (Min. 0.5-inch thick ISO 95+ GL)
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): MDP: -315.0 psf (Min. 0.5-inch thick Sarnatherm, H-Shield or ENRGY 3)
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): MDP: -345.0 psf (Min. 0.5-inch thick ACFoam III)
 - Sarnacol OM Board Adhesive (Sarnacol OM-BA): MDP: -487.5 psf (Min. 0.5-inch thick Sarnatherm (a), ACFoam II)
 - ICP Adhesives CR-20: MDP: -117.5 psf (Min. 1.0-inch thick)
8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD-1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 or Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
10. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
12. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

13. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
14. For Structural Concrete Deck or Recover Applications using System Type C-2 (Plate Bonded Roof Cover) or Type D (Mechanically Attached Roof Cover), the insulation is optional. Alternatively, min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board or 3/8-inch Sarnatherm Fanfold may be used as a separator board, preliminarily attached prior to roof cover installation.
15. Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC Product Approval for specific deck construction and limitations. For systems where specific LWC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.
16. For adhered membrane systems, side laps shall be minimum 3-inch wide sealed with min. 1.25-inch heat weld. Membrane adhesive application rates are as follows:

Membrane	Adhesive	Method	Rate
G410, S327, Sikaplan Adhered	Sarnacol 2170 or Sarnacol 2170 VC	Contact (both sides)	0.75 to 2 gal/square to substrate; 0.5 gal/square to membrane backside To Sarnatherm M Cover Board, Invinsa Roof Board, Sarnatherm Roofboard H, Sarnatherm Roof Board A-III, H-Shield HD, ACFoam-III Roofboard, Sarnatherm Composite Roofboard H or H-Shield HD Composite CG: 0.75 gal/square per side
G410 Feltback, Sikaplan Adhered Feltback, S327 Feltback	Sarnacol 2170	Wet lay (substrate)	1.0 to 1.25 gal/square To Sarnatherm M Cover Board, Invinsa Roof Board, Sarnatherm Roofboard H, Sarnatherm Roof Board A-III, H-Shield HD, ACFoam-III Roofboard, Sarnatherm Composite Roofboard H or H-Shield HD Composite CG: 1.5 gal/square applied in two equal quotes to the substrate
G410 Feltback, Sikaplan Adhered Feltback, S327 Feltback	Sarnacol 2170 VC	Wet lay (substrate)	Two coats with total application rate of 2.0 gal/square
G410, Sikaplan Adhered, G410 Feltback, Sikaplan Adhered Feltback, S327, S327 Feltback	Sarnacol 2121	Wet lay (substrate)	0.75 to 2.25 gal/square, depending on substrate porosity, rolled with 100 lb steel membrane roller
Sikaplan Adhered	Sikaplan Single-Step Membrane Adhesive (Sikaplan SSMA)	Wet lay (substrate)	0.75 to 1.5 gal/square, depending on substrate porosity, rolled with 100 lb steel membrane roller
Sikaplan Adhered Feltback	Sikaplan Single-Step Membrane Adhesive (Sikaplan SSMA)	Wet lay (substrate)	0.75 to 2.25 gal/square, depending on substrate porosity, rolled with 100 lb steel membrane roller
G410 Feltback, Sikaplan Adhered Feltback, S327 Feltback	Sarnacol AD Feltback Membrane Adhesive (AD-FMA), Sarnacol OM Feltback Membrane Adhesive (OM-FMA)	Wet lay (substrate)	Continuous 0.5-inch wide ribbons spaced as noted in tables herein.

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

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A OR 3B:					
Option #	Primer	Vapor Barrier		Insulation Adhesive	MDP (psf)
		Type	Application		
VB-1.	Vapor Retarder Primer VC	Sarnavap SA, Vapor Retarder 106 or Vapor Retarder 31		Sarnacol OM-BA, 12-inch o.c.	-165.0
VB-2.	ASTM D41 or Vapor Retarder Primer TA	Ply Sheet HA 87		Sarnacol OM-BA, 12-inch o.c.	-165.0
VB-3.	ASTM D41 or Vapor Retarder Primer TA	Ply Sheet TA 87		Sarnacol OM-BA, 12-inch o.c.	-165.0
VB-4.	ASTM D41	JM DynaWeld Base		Sarnacol OM-BA, 12-inch o.c.	-390.0
VB-5.	ASTM D41	One or two plies ASTM D4601 base and/or ASTM D2178, type IV or VI ply sheet		Sarnacol OM-BA, 12-inch o.c.	-352.5
VB-6.	Vapor Retarder Primer VC	Sarnavap SA		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-165.0
VB-7.	Vapor Retarder Primer TA	Ply Sheet HA 87		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-165.0
VB-8.	Vapor Retarder Primer TA	Ply Sheet TA 87		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-165.0
VB-9.	Vapor Retarder Primer VC	Vapor Retarder SA 31		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-240.0
VB-10.	ASTM D41	Ply Sheet HA 87		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-270.0
VB-11.	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-315.0
VB-12.	ASTM D41	Ply Sheet TA 87		Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c.	-382.5
VB-13.	ASTM D41	One or two plies ASTM D4601 base and/or ASTM D2178, type IV or VI ply sheet		ICP Adhesives CR-20, 12-inch o.c.	-262.5
VB-14.	ASTM D41	Optional ASTM D4601 base or ASTM D2178, type IV or VI ply sheet followed by Soprema Elastophene GR or Sopralene 180 or 250 GR		ICP Adhesives CR-20, 12-inch o.c.	-270.0
VB-15.	ASTM D41	Optional ASTM D4601 base or ASTM D2178, type IV or VI ply sheet followed by Soprema Elastophene Flam GR or Sopralene Flam 180 or 250 GR		ICP Adhesives CR-20, 12-inch o.c.	-169.0

18. For membrane attachment using batten-strips, batten-strip end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.
19. Permissible membrane alternates are as follows:
- Textured G410 may be used where G410 is listed.
 - Textured S327 may be used where S327 is listed.
 - Sikaplan Fastened Feltback may be used where Sikaplan Fastened is listed.
20. For System Types C (Mechanically Attached Insulation), C-2 (Plate Bonded Roof Cover) or Type D (Mechanically Attached Roof Cover), Sarnavap 10, Sarnavap SA, Vapor Retarder PE 10, Vapor Retarder SA 31, Vapor Retarder SA 106 (structural concrete only), Vapor Retarder TA 138 (structural concrete only) or other FBC Approved vapor barrier membrane 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 (January 2016) for design and installation recommendations.
21. "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 pressures.

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
W-1.	Min. 19/32" plywood or OSB at max. 24-inch spans	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3 or Sarnatherm r, Multi-Max FA3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170	-52.5
W-2.	Min. 19/32" plywood or OSB at max. 24-inch spans	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3 or Sarnatherm r, Multi-Max FA3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered	Sarnacol 2121	-52.5
W-3.	Min. 19/32" plywood or OSB at max. 24-inch spans	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3 or Sarnatherm r, Multi-Max FA3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5
W-4.	Min. 19/32" plywood or OSB at max. 24-inch spans	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327, G410, Sikaplan Adhered S327 Feltback, G410 Feltback, Sikaplan Adhered	Sarnacol 2170 VC	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fastener	Attach	Type	Attach	Type	Attach	
W-5.	Min. 0.75-inch plywood	Min. 1.5-inch Sarnatherm, Sarnatherm a, H-Shield, H-Shield CG, ACFoam-II, ACFoam-III, ACFoam Supreme, ENRGY-3, Sarnatherm r, Multi-Max FA3, or ISO 95+ GL	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	S327, G410, Sikaplan Adhered, S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-37.5*

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Type	Attach	
W-6.	Min. 0.75-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Sarnatherm(a) or ACFoam-II	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered, S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-45.0*
W-7.	Min. 0.75-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered, S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-45.0*

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

System No.	Deck (Note 1)	Slip Sheet	Base Insulation and/or Thermal Barrier Layer(s)	Top Insulation Layer			Primer	Roof Cover (Note 16)			MDP (psf)
				Type	Fasteners	Attach		Base	Ply	Cap	
W-8.	Min. 19/32-inch plywood	(Optional) One or more layers Base Sheet NB 48 or Sopra 4897, loose laid	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Sarnafastener #14 & Sarnaplate	1 per 1.6 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5
W-9.	Min. 19/32-inch plywood	(Optional) One or more layers Base Sheet NB 48 or Sopra 4897, loose laid	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Sarnafastener #14 & Sarnaplate	1 per 1.6 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer	Attachment			Roof Cover	MDP (psf)
			Fasteners	Row Spacing (feet)	Fastener Spacing (inch)		
W-10.	Min. 0.75-inch plywood	(Optional) One or more layers, any combination, prelim attach	Sarnafastener #14 with Sarnadisc RhinoBond plates or Sikaplan Fastener #14 with Sikaplan RhinoBond Disc	3	24 (staggered)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-45.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fastener	Attach	Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:									
SC-1.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 2.9 ft ²	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-30.0
SC-2.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 2.9 ft ²	Min. 0.5-inch Sarnatherm Roofboard A-III or ACFoam-III HD Roofboard	Sarnacol 2163 or Sarnacol AD-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-30.0
SC-3.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam-II	Note 2	1 per 2 ft ²	One or more layers of Base Insulation	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-37.5*
SC-4.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, Sarnatherm a, H-Shield, H-Shield CG, ACFoam-II, ACFoam-III, ACFoam Supreme, ENRGY-3, Sarnatherm r, Multi-Max FA3, or ISO 95+GL	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-37.5*
SC-5.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II, ACFoam III, H-Shield, ISO 95+GL, ENRGY 3	Note 2	1 per 2 ft ²	One or more layers of Base Insulation or min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA or OB Classic	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-45.0*
SC-6.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Note 2	1 per 2 ft ²	One or more layers of Base Insulation	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or OB Classic	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-45.0*
SC-7.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II, ACFoam III, H-Shield, ISO 95+GL, ENRGY 3	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol AD-BA or OB Classic	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-45.0*
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:									
SC-8.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 2.9 ft ²	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c.	-30.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fastener	Attach	Type	Attach	Type	Attach	
SC-9.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Note 2	1 per 2.9 ft ²	Min. 0.5-inch Sarnatherm Roofboard A-III or ACFoam-III HD Roofboard	Sarnacol 2163 or Sarnacol AD-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c.	-30.0
SC-10.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II, ACFoam III, H-Shield, ISO 95+GL, ENRGY 3	Note 2	1 per 2 ft ²	One or more layers of Base Insulation or min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA or OB Classic	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170, Sarnacol 2121	-45.0*
SC-11.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Note 2	1 per 2 ft ²	One or more layers of Base Insulation	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or OB Classic	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-45.0*
SC-12.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II, ACFoam III, H-Shield, ISO 95+GL, ENRGY 3	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol AD-BA or OB Classic	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-45.0*
SC-13.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ACFoam II, H-Shield, ENRGY 3 or Sarnatherm	Note 2	1 per 2.67 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta-Stik, Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121	-45.0*
SC-14.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ISO 95+GL	Note 2	1 per 2.67 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta-Stik, Sarnacol 2163, Sarnacol AD-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC	-45.0*
SC-15.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II, H-Shield or ENRGY 3	Note 2	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta-Stik, Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121	-60.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Primer	Roof Cover (Note 16)			MDP (psf)
		Type	Fastener	Attach	Type	Attach		Base	Ply	Cap	
SC-16.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
SC-17.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm	Note 2	1 per 2 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
SC-18.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Sarnatherm	Note 2	1 per 4 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
SC-19.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Sarnatherm	Note 2	1 per 4 ft ²	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*

TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

Sys No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach		Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:										
SC-20.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck	Note 2	1 per 4 ft ²	Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327 or G410	Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121	-45.0*
SC-21.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC	Note 2	1 per 4 ft ²	Vapor Retarder SA 106, self-adhering	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327 or G410	Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121	-45.0*
SC-22.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck	Note 2	1 per 4 ft ²	Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 or Sikaplan SSMA	-45.0*
SC-23.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC	Note 2	1 per 4 ft ²	Vapor Retarder SA 106, self-adhering	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 or Sikaplan SSMA	-45.0*
SC-24.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board	Note 2	1 per 2.67 ft ²	Sarnavap SA or Vapor Retarder SA 106, self-adhering	Insulation (optional for recover): Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI Coverboard: Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-60.0
SC-25.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board	Note 2	1 per 2.67 ft ²	Sarnavap SA or Vapor Retarder SA 106, self-adhering	Insulation (optional for recover): Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III or ACFoam-III HD Roofboard	Sarnacol 2163 or Sarnacol AD-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-60.0
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:										

TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

Sys No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach		Type	Attach	Type	Attach	
SC-26.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck	Note 2	1 per 4 ft ²	Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327 Feltback or G410 Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-45.0*
SC-27.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC	Note 2	1 per 4 ft ²	Vapor Retarder SA 106, self-adhering	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327 Feltback or G410 Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-45.0*
SC-28.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck	Note 2	1 per 4 ft ²	Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC or Sikaplan SSMA	-45.0*
SC-29.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.625-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC	Note 2	1 per 4 ft ²	Vapor Retarder SA 106, self-adhering	Min. 1.5-inch Sarnatherm followed by min. 0.25-inch DensDeck Prime	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC or Sikaplan SSMA	-45.0*
SC-30.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board	Note 2	1 per 2.67 ft ²	Sarnavap SA or Vapor Retarder SA 106, self-adhering	Insulation (optional for recover): Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI Coverboard: Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c.	-60.0
SC-31.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board	Note 2	1 per 2.67 ft ²	Sarnavap SA or Vapor Retarder SA 106, self-adhering	Insulation (optional for recover): Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III or ACFoam-III HD Roofboard	Sarnacol 2163 or Sarnacol AD-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c.	-60.0

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

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
				Type	Fasteners	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:									
SC-32.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) See Note 20	New or Reroof: Min. 1.5-inch thick, one or more layers, any combination, loose laid Recover: (Optional) 0.5-inch thick, loose laid	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board, min. 0.5-inch Sarnatherm Roofboard H, Sarnatherm Roof Board A-III, H-Shield HD or ACfoam-III Roofboard or min. 2-inch Sarnatherm Composite Roofboard H or H-Shield HD Composite CG	Note 2	1 per 2 ft ²	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-37.5
SC-33.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Sarnatherm	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2121, Sikaplan SSMA	-45.0*
SC-34.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Sarnatherm(a) or ACfoam-II	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-45.0*
SC-35.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-45.0*
SC-36.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	None	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Dens Deck Prime	Note 2	1 per 4 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-45.0*
SC-37.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Sarnavap, loose laid	One or more layers, any combination, loose laid	Min. 0.625-inch Dens Deck Prime	Note 2	1 per 2 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-60.0
SC-38.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-67.5
SC-39.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-82.5
SC-40.	Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid.	Min. 2-inch ACfoam IV, Sarnatherm-a CG Plus	Note 2	1 per 1 ft ²	S327, G410	Sarnacol 2170 VC	-97.5
SC-41.	Min. 22 ga. type B, Grade 80 or min. 20 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-97.5

**TABLE 2D: STEEL OR STRUCTURAL CONCRETE DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1A: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
				Type	Fasteners	Attach	Type	Attach	
SC-42.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	None	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Dens Deck Prime	Note 2	1 per 1 ft ²	G410	Sarnacol 2170 VC	-127.5
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:									
SC-43.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.67 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121	-37.5*
SC-44.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) See Note 20	New or Reroof: Min. 1.5-inch thick, one or more layers, any combination, loose laid Recover: (Optional) 0.5-inch thick, loose laid	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board, min. 0.5-inch Sarnatherm Roofboard H, Sarnatherm Roof Board A-III, H-Shield HD or ACfoam-III Roofboard or min. 2-inch Sarnatherm Composite Roofboard H or H-Shield HD Composite CG	Note 2	1 per 2 ft ²	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c.	-37.5
SC-45.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121	-45.0*
SC-46.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121	-45.0*
SC-47.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Sarnatherm	Note 2	1 per 2 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-45.0*
SC-48.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Sarnavap, loose laid	One or more layers, any combination, loose laid	Min. 0.625-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-52.5
SC-49.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-67.5

**TABLE 2D: STEEL OR STRUCTURAL CONCRETE DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1A: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Vapor Barrier	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
				Type	Fasteners	Attach	Type	Attach	
SC-50.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid.	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm(a), ACFoam II	Note 2	1 per 1.33 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA, 12-inch o.c.	-67.5
SC-51.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-82.5
SC-52.	Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete	None	(Optional) One or more layers, any combination, loose laid.	Min. 2-inch ACFoam IV, Sarnatherm-a CG Plus	Note 2	1 per 1 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
SC-53.	Min. 22 ga. type B, Grade 80 or min. 20 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	None	One or more layers, min. 1.5-inch thick, any combination, loose laid	Min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC	-97.5

**TABLE 2E: STEEL OR CONCRETE DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1A: MECHANICALLY ATTACHED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasteners	Attach		Base	Ply	Cap	
SC-54.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2.6 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
SC-55.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2.6 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
SC-56.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
SC-57.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
SC-58.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1.78 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-60.0
SC-59.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1.78 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-60.0
SC-60.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1.6 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-67.5

**TABLE 2E: STEEL OR CONCRETE DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1A: MECHANICALLY ATTACHED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasteners	Attach		Base	Ply	Cap	
SC-61.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1.6 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-67.5
SC-62.	Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnafastener-XP & Sarnaplate	1 per 1.6 ft ²	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-75.0
SC-63.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-82.5
SC-64.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional for Recover) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnafastener #14 or Sarnafastener-XP & Sarnaplate	1 per 1 ft ²	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0

**TABLE 2F: STEEL DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1B: MECHANICALLY ATTACHED & BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Adhesive	Fastening		
SC-65.	Min. 22 ga. type B, Grade 80 steel	Min. 1.5-inch Sarnatherm, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnacol OM-BA, 12-inch o.c.	Sarnafastener-XP and Sarnaplate, 1 per 1 ft ²	S327, G410, Sikaplan Adhered in Sarnacol 2170 VC	-127.5

**TABLE 2G: STEEL DECK - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1B: MECHANICALLY ATTACHED & BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)			MDP (psf)
			Type	Adhesive	Fastening	Base	Ply	Cap	
SC-66.	Min. 22 ga. type B, Grade 80 steel	Min. 1.5-inch Sarnatherm, loose laid	Min. 0.5-inch Dens Deck Prime	Sarnacol OM-BA, 12-inch o.c.	Sarnafastener-XP and Sarnaplate, 1 per 1 ft ²	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0

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

System No.	Deck (Note 1)	Insulation Layer	Attachment			Roof Cover	MDP (psf)
			Fasteners	Row Spacing (inch)	Fastener Spacing (inch)		
SC-67.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	72	18	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-30.0
SC-68.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	60	18	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-37.5
SC-69.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	72	12	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-45.0
SC-70.	Min. 22 ga. type B, Grade 33 steel	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	36	24 (staggered)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-45.0*
SC-71.	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, prelim attach	Sarnafastener #14 or Sarnafastener-XP with Sarnadisc RhinoBond plates or Sikaplan Fastener #14 or Sikaplan Fastener #15 with Sikaplan RhinoBond Disc	36	24 (staggered)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-45.0*
SC-72.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	60	12	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-52.5
SC-73.	Min. 22 ga. Type B, Grade 40 steel	(Optional for recover) One or more layers, any combination	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	24	24 (grid)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-52.5
SC-74.	Min. 22 ga. type B, Grade 33 steel	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	24	24 (staggered)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool in accordance with manufacturer's instructions.	-60.0
SC-75.	Min. 22 ga. Type B, Grade 40 steel	(Optional for recover) One or more layers, any combination	Sarnafastener-MAXLoad and with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs	24	24 (grid)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-60.0

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

System No.	Deck (Note 1)	Insulation Layer	Attachment			Roof Cover	MDP (psf)
			Fasteners	Row Spacing (inch)	Fastener Spacing (inch)		
SC-76.	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, prelim attach	Sarnafastener #14 or Sarnafastener-XP with Sarnadisc RhinoBond plates or Sikaplan Fastener #14 or Sikaplan Fastener #15 with Sikaplan RhinoBond Disc	24	24 (staggered)	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-60.0
SC-77.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	72	6	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-90.0
SC-78.	Min. 18 ga., Grade 33 steel deck	(Optional for recover) One or more layers, any combination, prelim attach	Sarnafastener-XP Fasteners with Sarnadisc RhinoBond plates or Sikaplan Fastener #15 with Sikaplan RhinoBond Discs	60	6	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-105.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Type	Fasteners	Attachment	
SC-79.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	18-inch o.c. within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with 1.6-inch heat weld.	-30.0
SC-80.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	12-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.75-inch heat weld.	-37.5
SC-81.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	12-inch o.c. within 7-inch wide laps spaced 113-inch o.c. Laps sealed with 0.875-inch heat weld.	-37.5
SC-82.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 0.875-inch heat weld.	-45.0
SC-83.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	24-inch o.c. within 6.5-inch wide laps spaced 53-inch o.c. Laps sealed with 1.6-inch heat weld.	-45.0
SC-84.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	12-inch o.c. within 7-inch wide laps spaced 113-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
SC-85.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Preliminarily attached	S327, Sikaplan Fastened	#15 Dekfast and isofast IF/IG-C 82x40 plates	6-inch o.c. within 5.5-inch wide laps spaced 73-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
SC-86.	Min. 18 ga., Grade 33 steel deck or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, S327 FB, Sikaplan Fastened	Sarnafastener-XP Fasteners and Sarnadisc-XPN Plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
SC-87.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 0.5-inch heat weld.	-52.5
SC-88.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	18-inch o.c. within 6.5-inch wide laps spaced 53-inch o.c. Laps sealed with 1.6-inch heat weld.	-52.5
SC-89.	Min. 20 ga., Type B, Grade 50 steel	One or more layers, any combination	Preliminarily attached	Sikaplan Fastened (min. 60-mil)	Sikaplan Fastener #15 and Sarnadisc-XPN plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.125-inch heat weld.	-52.5
SC-90.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	12-inch o.c. within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with 1.6-inch heat weld.	-60.0
SC-91.	Min. 22 ga. Type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	6-inch o.c. within 5-inch wide laps spaced 54.5-inch o.c. Laps sealed with 1.5-inch heat weld.	-60.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Type	Fasteners	Attachment	
SC-92.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.75-inch heat weld.	-60.0
SC-93.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	12-inch o.c. within 6.5-inch wide laps spaced 53-inch o.c. Laps sealed with 1.6-inch heat weld.	-60.0
SC-94.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	6-inch o.c. within 7-inch wide laps spaced 113-inch o.c. Laps sealed with 0.875-inch heat weld.	-60.0
SC-95.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and Sarnadisc-XPN plates	6-inch o.c. within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with 1.6-inch heat weld.	-90.0
SC-96.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	6-inch o.c. within 7-inch wide laps spaced 53-inch o.c. Laps sealed with min. 1.25-inch heat weld.	-105.0
SC-97.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and Sarnadisc MAXLoad plates	6-inch o.c. within 6.5-inch wide laps spaced 53-inch o.c. Laps sealed with 1.6-inch heat weld.	-105.0

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: MECHANICALLY ATTACHED MEMBRANE – BATTENS AND FASTENERS**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Type	Fasteners	Attachment	
SC-98.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 18-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-37.5
SC-99.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 24-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-45.0
SC-100.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and ¾-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-45.0
SC-101.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 12-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-52.5

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: MECHANICALLY ATTACHED MEMBRANE – BATTENS AND FASTENERS**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Type	Fasteners	Attachment	
SC-102.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 18-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-52.5
SC-103.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP or OMG Large Head #15 Roofgrip screws and ¾-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-60.0
SC-104.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 12-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-60.0
SC-105.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sarnafastener-XP screws and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-67.5
SC-106.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 12-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-67.5
SC-107.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and ¾-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-75.0
SC-108.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with a 1.25-inch outside heat-weld and a 0.75-inch inside heat-weld.	-90.0
SC-109.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	¹⁰ S327, Sikaplan Fastened	Sika Sarnafil MAXLoad fasteners and 1-inch Sarnarail Polymer Batten Strip	Fasteners spaced 6-inch o.c. through batten strips placed within 5.5-inch wide laps spaced 54-inch o.c. Laps sealed with a 1-inch outside heat-weld and a 0.625-inch inside heat-weld.	-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 17 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:								
C-1	Min. 2,500 psi structural concrete	Min. 2-inch Sarnatherm(s) or ACFoam II	Insta-Stik	(Optional) Additional layers base insulation	Insta-Stik	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
C-2	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-97.5
C-3	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-127.5
C-4	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-150.0
C-5	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Sarnacol OM-BA	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol OM-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-165.0
C-6	Min. 2,500 psi structural concrete	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck	OB Classic, full coverage	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-202.5
C-7	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol 2163, Sarnacol AD-BA	(Optional) Additional layers base insulation	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-97.5
C-8	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-127.5
C-9	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm or ACFoam II	Sarnacol 2163, Sarnacol AD-BA	(Optional) additional layers of base insulation	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-127.5
C-10	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H, H-Shield HD, Sarnatherm Roof Board A-III or ACFoam-III HD Roofboard	Sarnacol 2163, Sarnacol AD-BA	S327, G410	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121	-165.0

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 NOTE: REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
C-11	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) Additional layers base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
C-12	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm or ACFoam II	CR-20	(Optional) additional layers of base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-127.5
C-13	Min. 2,500 psi structural concrete	(Optional) One or more layers min. 1.5-inch Sarnatherm or ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-127.5
C-14	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield	CR-20	(Optional) additional layers of base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2121, Sikaplan SSMA	-262.5
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:								
C-15	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation	Sarnacol OM-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
C-16	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
C-17	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-120.0
C-18	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-19	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Sarnacol OM-BA	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or H-Shield HD	Sarnacol OM-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 4-inch o.c. or OM-FMA, 4-inch o.c.	-165.0
C-20	Min. 2,500 psi structural concrete	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck	OB Classic, full coverage	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-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 17 FOR VAPOR BARRIER OPTIONS**

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
C-21	Min. 2,500 psi structural concrete	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck	OB Classic, full coverage	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170, Sarnacol 2170 VC	-127.5
C-22	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
C-23	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5
C-24	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-25	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, H-Shield, Sarnatherm CG, H-Shield CG, Sarnatherm a, Sarnatherm-a CG, Sarnatherm-a CG Plus, Sarnatherm M, Sarnatherm M 25 PSI, ENRGY 3 or ENRGY 3 25 PSI	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Sarnatherm M Cover Board or Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H, H-Shield HD, Sarnatherm Roof Board A-III or ACFoam-III HD Roofboard	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sarnacol AD-FMA, 4-inch o.c. or OM-FMA, 4-inch o.c.	-165.0
C-26	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) Additional layers base insulation	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
C-27	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield	CR-20	(Optional) Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch Dens Deck or Dens Deck Prime	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
C-28	Min. 2,500 psi structural concrete	(Optional) Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck or Dens Deck Prime	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
C-29	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch Sarnatherm or ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3	CR-20	(Optional) Min. 0.25-inch Dens Deck Prime	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-30	Min. 2,500 psi structural concrete	(Optional) Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5

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

NOTE: REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 16)			MDP (psf)
		Type	Attach	Type	Attach		Base	Ply	Cap	
C-31	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-75.0
C-32	Min. 2,500 psi structural concrete	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163, Sarnacol AD-BA or CR-20	None	Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Base Ply		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	
C-33	Min. 2,500 psi structural concrete	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	Self-adhering	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-67.5
C-34	Min. 2,500 psi structural concrete	None	None	N/A	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-35	Min. 2,500 psi structural concrete	ASTM D41	Ply Sheet HA 87	Hot asphalt, 25 lbs/square	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-36	Min. 2,500 psi structural concrete	ASTM D41	Ply Sheet TA 87	Torch-applied	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
C-37	Min. 2,500 psi structural concrete	None	None	N/A	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-495.0
C-38	Min. 2,500 psi structural concrete	None	None	N/A	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 4-inch o.c.	-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)	LWC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:									
LWC-1	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) additional layers of base insulation	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
LWC-2	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch Sarnatherm(a), ACFoam II, H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-127.5
LWC-3	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch ACFoam II, H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170	-202.5
LWC-4	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell LWIC	Min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) additional layers of base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
LWC-5	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell LWIC	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield	CR-20	Min. 0.25-inch Dens Deck Prime	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-127.5
LWC-6	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell cast	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or min. 2.0 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck Prime	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170	-215.0
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:									
LWC-7	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch Sarnatherm(a) or ACFoam	Sarnacol OM-BA	(Optional) additional layers of base insulation	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
LWC-8	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch ACFoam II, H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
LWC-9	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch ACFoam II, H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
LWC-10	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	Min. 1.5-inch ACFoam II, H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5

**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)	LWC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)		MDP (psf)
			Type	Attach	Type	Attach	Type	Attach	
LWC-11	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) additional layers of base insulation	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
LWC-12	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck or Dens Deck Prime	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
LWC-13	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell LWIC	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield	CR-20	(Optional) additional layers of base insulation	CR-20	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
LWC-14	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell LWIC	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield	CR-20	(Optional) Min. 0.25-inch Dens Deck Prime	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
LWC-15	Min. 2,500 psi structural concrete	Min. 200 psi Celcore, Mearlcrete or Elastizell	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck Prime	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		
LWC-16	Min. 26 ga. steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	G410, Sikaplan Adhered applied in Sarnacol 2121, Sikaplan SSMA or 2170, or G410 Feltback, Sikaplan Adhered Feltback applied in Sarnacol 2121 or 2170 VC (full coverage) Sarnacol AD-FMA or OM FMA (12-inch o.c.)	-30.0*
LWC-17	Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete	Elastizell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	G410, Sikaplan Adhered applied in Sarnacol 2121, Sikaplan SSMA or 2170, or G410 Feltback, Sikaplan Adhered Feltback applied in Sarnacol 2121 or 2170 VC (full coverage) Sarnacol AD-FMA or OM FMA (12-inch o.c.)	-30.0*
LWC-18	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	G410, Sikaplan Adhered applied in Sarnacol 2121, Sikaplan SSMA or 2170, or G410 Feltback, Sikaplan Adhered Feltback applied in Sarnacol 2121 or 2170 VC (full coverage) Sarnacol AD-FMA or OM FMA (12-inch o.c.)	-30.0*
LWC-19	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	G410, Sikaplan Adhered applied in Sarnacol 2121, Sikaplan SSMA or 2170, or G410 Feltback, Sikaplan Adhered Feltback applied in Sarnacol 2121 or 2170 VC (full coverage) Sarnacol AD-FMA or OM FMA (12-inch o.c.)	-30.0*
LWC-20	Min. 22 ga., type B steel at max. 5 ft spans or or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	G410, Sikaplan Adhered applied in Sarnacol 2121, Sikaplan SSMA or 2170, or G410 Feltback, Sikaplan Adhered Feltback applied in Sarnacol 2121 or 2170 VC (full coverage) Sarnacol AD-FMA or OM FMA (12-inch o.c.)	-30.0*

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
LWC-21	Min. 26 ga. steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-22	Min. 26 ga. steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-23	Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete	Elastizell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-24	Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete	Elastizell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-25	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
LWC-26	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-27	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-28	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-29	Min. 22 ga., type B steel at max. 5 ft spans or or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
LWC-30	Min. 22 ga., type B steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Hot asphalt	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0
LWC-31	Min. 26 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-32	Min. 26 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-33	Min. 22 ga. type B steel at max. 6 ft spans or min. 2,500 psi structural concrete	Elastizell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER

System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
LWC-34	Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete	Elastizell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-35	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-36	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-37	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-38	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*

TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)														
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER														
System No.	Deck (Note 1)	LWC (Note 15)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
			Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
LWC-39	Min. 22 ga., type B steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*
LWC-40	Min. 22 ga., type B steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA or Sarnacol 2163	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0*

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)										
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER										
System No.	Deck (Note 1)	LWC (Note 15)	Base Sheet			Roof Cover (Note 16)			MDP (psf)	
			Base	Fasteners	Spacing	Base	Ply	Cap		
LWC-41	Min. 26 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastzell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-30.0	
LWC-42	Min. 22 ga. type B steel at max. 6 ft spans or min. 2,500 psi structural concrete	Elastzell or Mearlcrete, Min. 200 psi, Min. 2.5-inch top coat	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 4-inch laps and 7-inch o.c. in two equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0	

**TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)	Base Sheet			Roof Cover (Note 16)			MDP (psf)
			Base	Fasteners	Spacing	Base	Ply	Cap	
LWC-43	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0
LWC-44	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0
LWC-45	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Mearlcrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5
LWC-46	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5
LWC-47	Min. 22 ga., type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete	Min. 350 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	9-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-60.0
LWC-48	Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick Celcore Cellular Concrete. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	Base Sheet NB 48 or Sopra 4897	C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-75.0

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

System No.	Deck (Note 1)	LWC (Note 15)		Roof Cover (Note 16)		MDP (psf)
		Type	Treatment	Type	Attach	
LWC-49	18-22 ga. Type B vented steel deck at max. 6 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-60.0
LWC-50	18-22 ga. Type B vented steel deck at max. 6 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2170	-60.0
LWC-51	18-22 ga. Type B vented steel deck at max. 5 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-75.0
LWC-52	18-22 ga. Type B vented steel deck at max. 5 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2170	-75.0
LWC-53	18-22 ga. Type B vented steel deck at max. 4 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-90.0
LWC-54	18-22 ga. Type B vented steel deck at max. 4 ft spans	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2170	-90.0
LWC-55	Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-112.5
LWC-56	Min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch Celcore LWIC	Celcore PVA Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2170	-135.0
LWC-57	Min. 22 ga. Type B vented steel deck at max. 5 ft spans. Deck primed with Concrete Bonding Agent at 600 ft ² /gal.	Min. 300 psi, min. 2-inch Concrete LWIC Optional min. 1-inch EPS Holey Board.	Concrete Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-97.5
LWC-58	Min. 22 ga. Type B vented steel deck at max. 6 ft spans.	Min. 300 psi, min. 2-inch Concrete LWIC No EPS Holey Board.	Concrete Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-105.0
LWC-59	Min. 22 ga. Type B vented steel deck at max. 6 ft spans.	Min. 300 psi, min. 2-inch Concrete LWIC Optional min. 2-inch EPS Holey Board.	Concrete Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-112.5
LWC-60	Min. 22 ga. Type B vented steel deck at max. 6 ft spans.	Min. 250 psi, min. 2-inch Concrete LWIC with ARBS System for edge termination	Concrete Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-112.5
LWC-61	Min. 2,500 psi structural concrete	Min. 250 psi, min. 2-inch Concrete LWIC (optional ARBS System for edge termination)	Concrete Curing Compound	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-112.5
LWC-62	Min. 22 ga. Type BV, Grade 33 steel deck at max. 6 ft spans	Min. 250 psi, min. 2-inch Elastizell LWIC with Zell-Crete Fibers in the mix.	None	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-90.0
LWC-63	Min. 22 ga. Type BV, Grade 33 steel deck at max. 6 ft spans	Min. 360 psi, min. 2-inch Elastizell LWIC with Zell-Crete Fibers in the mix. Min. 1-inch, min. 1.0 pcf flat, corrugated or grooved EPS board is allowable.	Zell-erator at 200 ft ² /gallon	G410 Feltback or Sikaplan Adhered Feltback	Sarnacol 2170 or Sarnacol 2170 VC at 2 to 2.25 gal/square or Sarnacol 2121 at 1 gal/square	-90.0
LWC-64	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch Elastizell LWIC	None	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-112.5

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

System No.	Deck (Note 1)	LWC (Note 15)		Roof Cover (Note 16)		MDP (psf)
		Type	Treatment	Type	Attach	
LWC-65	Min. 22 ga. Type BV, Grade 33 steel at max. 5 ft spans.	Min. 360 psi, min. 2-inch Elastizell LWIC with Zell-Crete Fibers in the mix. Min. 2-inch, min. 1.0 pcf flat EPS board.	Zell-erator at 200 ft ² /gallon	G410 Feltback or Sikaplan Adhered Feltback	Sarnacol 2170 or Sarnacol 2170 VC at 2 to 2.25 gal/square or Sarnacol 2121 at 1 gal/square	-112.5
LWC-66	Min. 2,500 psi structural concrete	Min. 360 psi, min. 2-inch Elastizell LWIC with Zell-Crete Fibers in the mix. Optional min. 1-inch, min. 1.0 pcf flat, corrugated or grooved EPS board is allowable.	Zell-erator at 200 ft ² /gallon	G410 Feltback or Sikaplan Adhered Feltback	Sarnacol 2170 or Sarnacol 2170 VC at 2 to 2.25 gal/square or Sarnacol 2121 at 1 gal/square	-220.0
LWC-67	Min. 22 ga., Type BV, Grade 50 steel at max. 6 ft spans	Min. 370 psi, min. 2-inch Mearlcrete	None	G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback	Sarnacol 2121	-60.0

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:								
CWF-1	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	Sarnacol OM-BA	(Optional) Additional layers base insulation, flat or tapered	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170	-45.0*
CWF-2	Tectum	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-45.0*
CWF-3	Tectum	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	Sarnacol OM-BA	Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch Dens Deck	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170	-45.0*
CWF-4	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170	-52.5
CWF-5	Tectum	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch Dens Deck Prime	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-52.5
CWF-6	Tectum	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch Dens Deck	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170	-52.5
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:								
CWF-7	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	Sarnacol OM-BA	(Optional) Additional layers base insulation, flat or tapered	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-45.0*
CWF-8	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	Sarnacol OM-BA	(Optional) Additional layers base insulation, flat or tapered	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
CWF-9	Tectum	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-45.0*
CWF-10	Tectum	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	Sarnacol OM-BA	Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch Dens Deck	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-45.0*
CWF-11	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-52.5
CWF-12	Tectum	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3	CR-20	(Optional) Additional layers base insulation, flat or tapered	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)	
		Type	Attach	Type	Attach	Type	Attach		
CWF-13	Tectum	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II		CR-20	(Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-52.5
CWF-14	Tectum	(Optional) One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield or ENRGY 3		CR-20	Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch Dens Deck	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-52.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 16)			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Type	Attach		Base	Ply	Cap	
CWF-15	Tectum	Base Sheet NB 48 or Sopra 4897	OMG OlyLok Fasteners; Min. 1.8-inch long (for new or reroof); min. 1.8-inch embedment (for recover)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	None	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*
CWF-16	Tectum	Base Sheet NB 48 or Sopra 4897	OMG OlyLok Fasteners; Min. 1.8-inch long (for new or reroof); min. 1.8-inch embedment (for recover)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch Sarnatherm	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA, Sarnacol 2163 or Sarnacol AD-BA	Vapor Retarder Primer SB or VC	Vapor Retarder SA 106, self-adhering	None	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-45.0*

TABLE 6A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)			MDP (psf)
		Base	Fasteners (Note 11)	Spacing	Base	Ply	Cap	
G-1.	Existing poured gypsum or gypsum plank	Base Sheet NB48	Twin Loc-Nail (Field W/D \geq 53 lbf)	6-inch o.c. at 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	Ply Sheet HA 87 in hot asphalt or Ply Sheet TA 87, torch applied.	(Optional) Ply Sheet HA 87 in hot asphalt	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-60.0

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:								
R-1	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
R-2	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-120.0
R-3	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-120.0
R-4	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck Prime	OB Classic, full coverage	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-150.0
R-5	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol 2163, Sarnacol AD-BA	(Optional) Additional layers base insulation	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-97.5
R-6	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-127.5
R-7	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm or ACFoam II	Sarnacol 2163, Sarnacol AD-BA	(Optional) additional layers of base insulation	Sarnacol 2163, Sarnacol AD-BA	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-127.5
R-8	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) Additional layers base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170 VC	-97.5
R-9	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm or ACFoam II	CR-20	(Optional) additional layers of base insulation	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA	-127.5
R-10	Existing asphaltic BUR or mineral surface cap sheet	(Optional) One or more layers min. 1.5-inch Sarnatherm or ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck Prime	CR-20	S327, G410, Sikaplan Adhered	Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA	-127.5
S327 FELTBACK OR G410 FELTBACK, SIKAPLAN ADHERED FELTBACK APPLICATIONS:								
R-11	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	Sarnacol OM-BA	(Optional) Additional layers base insulation	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
R-12	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach	Type	Attach	Type	Attach	
R-13	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
R-14	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol OM-BA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Sarnacol OM-BA	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-120.0
R-15	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck Prime	OB Classic, full coverage	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
R-16	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.0-inch Sarnatherm, ACFoam II, H-Shield, ENRGY 3	OB Classic, full coverage	Min. 0.25-inch Dens Deck Prime	OB Classic, full coverage	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170, Sarnacol 2170 VC	-127.5
R-17	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	(Optional) Min. 0.25-inch Dens Deck or Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
R-18	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	Min. 0.25-inch Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5
R-19	Existing asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen	(Optional) Min. 1.5-inch Sarnatherm, ACFoam II or H-Shield	Sarnacol 2163, Sarnacol AD-BA	(Optional) Min. 0.25-inch Dens Deck Prime	Sarnacol 2163, Sarnacol AD-BA	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
R-20	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm(a) or ACFoam II	CR-20	(Optional) additional layers of base insulation	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-97.5
R-21	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, ENRGY 3, Sarnatherm r, Multi-Max FA3 or H-Shield or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	(Optional) Min. 0.25-inch Dens Deck Prime	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2121	-112.5
R-22	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm or ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3	CR-20	(Optional) additional layers of base insulation	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0
R-23	Existing asphaltic BUR or mineral surface cap sheet	One or more layers min. 1.5-inch Sarnatherm, ACFoam II, Sarnatherm r, Multi-Max FA3, H-Shield, ENRGY 3 or Dow STYROFOAM RoofMate or min. 1.8 pcf Insulfoam EPS	CR-20	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback	Sarnacol 2170 VC	-127.5

**TABLE 7B: STEEL - RECOVER
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

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

System No.	Deck (Note 1)	Insulation Layer	Attachment			Roof Cover	MDP (psf)
			Fasteners (Note 11)	Row Space (inch)	Fastener Space (inch)		
R-24	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	72	18	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-30.0
R-25	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	60	18	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-37.5
R-26	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	72	12	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-45.0
R-27	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	60	12	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-52.5
R-28	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	72	6	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-90.0
R-29	Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c.	(Optional for recover) One or more layers, any combination, prelim attach	OMG Purlin Fasteners with Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs fastened through existing metal roof to purlins	60	6	S327, ¹⁰ S327, Sikaplan Fastened bonded to Sarnadisc RhinoBond plates or Sikaplan RhinoBond Discs with Rhino Plate bonding tool, in accordance with manufacturer's instructions.	-105.0

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

System No.	Substrate (Notes 1 & 12)	Primer / Treatment	Roof Cover (Note 16)	MDP (psf)
R-30	Existing asphaltic granule surface cap sheet	None	S327 Feltback or G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c.	-120.0