



NEMO|etc.

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ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT BY FLORIDA P.E.

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

Evaluation Report 4749.04.06-R27
FL9274-R25
Date of Issuance: 07/30/2007
Revision 27: 08/04/2022

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 **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Sika Sarnafil Roof Systems for use in FBC non-HVHZ jurisdictions

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

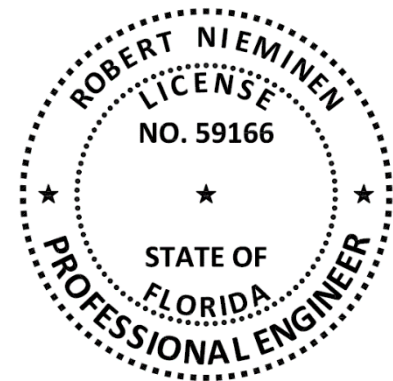
CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes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

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the 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 64-page Appendix.

Prepared by:



CERTIFICATION OF INDEPENDENCE:

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

Product Category: Roofing
Sub-Category: Single Ply Roof Systems
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Sika Sarnafil Roof Systems, as produced by Sika Sarnafil, Inc., have demonstrated compliance with the following sections of the 7th Edition (2020) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

| SECTION | PROPERTY | STANDARD | YEAR |
|-----------|---------------------|------------|------|
| 1504.3.1 | Wind resistance | FM 4474 | 2011 |
| 1504.6 | Physical properties | ASTM G154 | 2012 |
| 1504.7 | Impact resistance | FM 4470 | 2016 |
| 1508.2 | Material standard | ASTM C1289 | 2015 |
| 1507.10.2 | Material standard | ASTM D4601 | 2012 |
| 1507.10.2 | Material standard | ASTM D4897 | 2009 |
| 1507.11.2 | Material standard | ASTM D6163 | 2015 |
| 1507.11.2 | Material standard | ASTM D6164 | 2011 |
| 1507.13.2 | Material standard | ASTM D4434 | 2012 |

3. REFERENCES:

| ENTITY | EXAMINATION | REFERENCE | DATE |
|------------------------|---------------------------|------------------------|----------|
| ERD (TST6049) | ASTM D4434, G154 | S44790.06.13 | 06-05-13 |
| ERD (TST6049) | ASTM D4434, G154 | S44790.08.13 | 08-26-13 |
| ERD (TST6049) | PHYSICALS | S45520.11.13 | 11-21-13 |
| ERD (TST6049) | ASTM C1289 & TAS 110 (FL) | C42950.09.13-1A-R1 | 03-04-14 |
| ERD (TST6049) | ASTM C1289 & TAS 110 (PA) | C42950.03.14 | 03-26-14 |
| ERD (TST6049) | ASTM D4434, G154 | S45990.06.14 | 06-02-14 |
| ERD (TST6049) | ASTM D4434, G154 | S44790.07.14-R2 | 07-31-14 |
| ERD (TST6049) | ASTM D6163 | S43400.08.14-4 | 08-26-14 |
| ERD (TST6049) | ASTM D6164 | S43400.08.14-6 | 08-26-14 |
| ERD (TST6049) | ASTM C1289 (IL) | C46470.10.14-1A-1 | 10-03-14 |
| ERD (TST6049) | TAS 110 (IL) | C46470.10.14-1A-3A | 10-03-14 |
| ERD (TST6049) | ASTM C1289 (UT) | C46470.01.15-1 | 01-08-15 |
| ERD (TST6049) | TAS 110 (UT) | C46470.01.15-2 | 01-08-15 |
| ERD (TST6049) | ASTM D4434, G154 | SIKA-SC7935.05.15-R2 | 05-19-15 |
| ERD (TST6049) | ASTM G154 | SIKA-SC8175.06.15 | 06-01-15 |
| Intertek (CER1497) | ASTM E84 | SPEC ID 28691 | 08-03-22 |
| Intertek (TST1585) | ASTM E84 | 101175749SAT-001A | 05-30-13 |
| NEMO (TST6049) | ASTM D4601 | 4q-SOP-19-SSMBB-01.A | 03-11-19 |
| NEMO (TST6049) | ASTM D4601 | 4q-SOP-19-SSMBB-01.B | 03-11-19 |
| NEMO (TST6049) | ASTM D4601 | 4q-SOP-19-SSMBB-01.C | 03-11-19 |
| NEMO (TST6049) | ASTM C1289 | 4n-SIKA-19-SSINCB-01.A | 09-05-19 |
| NEMO (TST6049) | ASTM D6164 | 4q-SOP-20-SSMBB-01.B | 11-05-20 |
| NEMO (TST6049) | ASTM D6163 | 4q-SOP-20-SSMBB-01.A | 11-05-20 |
| NEMO (TST6049) | ASTM D6164 | 4q-SOP-21-SSMBB.04.C | 06-24-22 |
| PRI (TST5878) | ASTM C1289 | JMC-172-02-01 | 02-06-14 |
| PRI (TST5878) | ASTM D4897 | MSA-006-02-01 | 06-17-15 |
| PRI (TST5878) | ASTM C1289 | 557T0049 | 04-06-21 |
| R&D Services (TST1552) | ASTM C1289 | RD201193-R1 | 04-07-21 |
| R&D Services (TST1552) | ASTM C1289 | RD201208-R3 | 06-22-21 |
| R&D Services (TST1552) | ASTM C1289 | RD201199-R2 | 03-16-22 |
| ACRC (TST4671) | TAS 114 | 15-033 | 12-15-15 |
| ACRC (TST4671) | TAS 114(J) | 17-013 | 05-19-17 |
| ACRC (TST4671) | TAS 114(J) | 17-015 | 09-06-17 |
| ERD (TST6049) | FM 4470/4474 | 01090.01.03-1 | 01-22-03 |
| ERD (TST6049) | FM 4470/4474 | 2778.07.05-1 | 07-15-05 |
| ERD (TST6049) | FM 4470/4474 | S36600.03.14 | 03-04-14 |



| ENTITY | EXAMINATION | REFERENCE | DATE |
|----------------------|--------------------|---------------------------|----------|
| ERD (TST6049) | FM 4470/4474 | SC7090.07.14-2-R2 | 09-03-14 |
| ERD (TST6049) | FM 4470/4474 | SC7090.07.14-2-R6 | 09-29-15 |
| ERD (TST6049) | FM 4470/4474 | SIKA-SC11570.06.16 | 06-29-16 |
| ERD (TST6049) | FM 4470/4474 | SFS-SC10010.02.16-R1 | 07-06-16 |
| ERD (TST6049) | Criticality | ICP-SC15630.09.17 | 09-06-17 |
| ERD (TST6049) | Criticality | ICP-SC16225.09.17 | 09-06-17 |
| FM (TST1867) | FM 4470 | 0X3A3.AM | 01-31-94 |
| FM (TST1867) | FM 4470 | 2B8A4.AM | 07-02-97 |
| FM (TST1867) | FM 4470 | 2D3A5.AM | 06-04-98 |
| FM (TST1867) | FM 4470 | 3012964 | 06-11-02 |
| FM (TST1867) | FM 4470 | 3015643 | 12-06-02 |
| FM (TST1867) | FM 4470 | 3016201 | 01-28-03 |
| FM (TST1867) | FM 4470 | 3006785 | 05-06-04 |
| FM (TST1867) | FM 4470/4474 | 3017292 | 09-03-04 |
| FM (TST1867) | FM 4470/4474 | 3021131 | 07-07-05 |
| FM (TST1867) | FM 4470/4474 | 3024229 | 11-16-05 |
| FM (TST1867) | FM 4470/4474 | 3022038 | 04-05-06 |
| FM (TST1867) | FM 4470/4474 | 3023458 | 07-18-06 |
| FM (TST1867) | FM 4470/4474 | 3024311 | 11-01-06 |
| FM (TST1867) | FM 4470/4474 | 3028309 | 03-30-07 |
| FM (TST1867) | FM 4470/4474 | 3025158 | 05-22-07 |
| FM (TST1867) | FM 4470/4474 | 3030053 | 09-12-07 |
| FM (TST1867) | FM 4470/4474 | 797-044262-267 | 03-27-09 |
| FM (TST1867) | FM 4470/4474 | 3035670 | 05-13-09 |
| FM (TST1867) | FM 4470/4474 | 3036355 | 11-10-09 |
| FM (TST1867) | FM 4470/4474 | 3041535 | 06-08-11 |
| FM (TST1867) | FM 4470/4474 | 3039809 | 07-06-11 |
| FM (TST1867) | FM 4470/4474 | 3041256 | 07-12-11 |
| FM (TST1867) | FM 4470/4474 | 3043459 | 05-11-12 |
| FM (TST1867) | FM 4470/4474 | 3053265 | 10-30-14 |
| FM (TST1867) | FM 4470/4474 | 3055227 | 05-21-15 |
| FM (TST1867) | FM 4470/4474 | 3055111 | 07-07-15 |
| FM (TST1867) | FM 4470/4474 | 3054498 | 11-30-15 |
| FM (TST1867) | FM 4470/4474 | 3055167 | 02-10-16 |
| FM (TST1867) | FM 4470/4474 | 3055491 (data) | 02-10-16 |
| FM (TST1867) | FM 4470/4474 | 3057006 | 06-21-17 |
| FM (TST1867) | FM 4470/4474 | 3062086 | 07-18-18 |
| FM (TST1867) | FM 4470/4474 | 3063970 | 09-14-18 |
| FM (TST1867) | FM 4470/4474 | PR451159 | 05-09-19 |
| FM (TST1867) | Criticality | PR456960 LTR | 02-09-21 |
| ITS (TST1558) | FM 4470/4474 | I7731.02-109-18 | 01-25-19 |
| Miami-Dade (CER1592) | Quality Control | PLA | 01-04-16 |
| Miami-Dade (CER1592) | Elastizell Ratings | 18-0208.03 | 08-09-18 |
| NEMO (TST6049) | ANSI/FM 4474 | 4L-SOP-18-005.08.18-1 | 01-25-19 |
| NEMO (TST6049) | ANSI/FM 4474 | 4L-CEL-18-001.12.18-2 | 07-10-19 |
| NEMO (TST6049) | ANSI/FM 4474 | 4a-ICP-19-LSWUS-01.A | 11-08-19 |
| NEMO (TST11294) | ANSI/FM 4474 | 2-SIKA-18-001.01.19 | 01-03-19 |
| NEMO (TST11294) | ANSI/FM 4474 | 2a-SIKA-21-LSWUS-02.A | 01-18-22 |
| NEMO | Traceability | FBC Product Cross Listing | 11-06-20 |
| NEMO | Data Release | NE-FRM-0025-3054498 | 10-18-21 |
| PRI (TST5878) | TAS 114(D) | SARN-086-02-01 | 11-01-17 |
| PRI (TST5878) | FM 4470/4474 | SARN-087-02-02 | 06-22-18 |
| PRI (TST5878) | FM 4470/4474 | SARN-088-02-01 | 06-25-18 |
| UL, LLC. (QUA9625) | Quality Control | ML File No. R8992 | 03-02-16 |
| UL, LLC. (QUA9625) | Quality Control | Service Confirmation | 01-30-18 |
| UL, LLC. (QUA9625) | Quality Control | Florida BCIS | Current |

4. PRODUCT DESCRIPTION:

- 4.1 This Evaluation Report covers **Sika Sarnafil Roof Systems** installed in accordance with **Sika Sarnafil** published installation instructions and the Limitations / Conditions of Use herein.

TABLE 1: EVALUATED MEMBRANES

| TYPE | PRODUCT | | MATERIAL STANDARD | | | PLANT(S) |
|---------------|----------------------------|--------------------|--------------------|------|-------|----------|
| | | | REFERENCE | TYPE | GRADE | |
| ROOF COVER | S327 | 48, 60, 72, 80-mil | ASTM D4434 | III | N/A | MA |
| | S327 Feltback | 48, 60, 72, 80-mil | ASTM D4434 | III | N/A | MA |
| | Sikaplan Fastened | 45, 60-mil | ASTM D4434 | III | N/A | MA |
| | Sikaplan Fastened Feltback | 45, 60-mil | ASTM D4434 | III | N/A | MA |
| | Sikaplan Adhered | 60-mil | ASTM D4434 | II | N/A | MA |
| | Sikaplan Adhered Feltback | 60-mil | ASTM D4434 | III | N/A | MA |
| | G410 | 60, 72, 80-mil | ASTM D4434 | II | N/A | MA |
| | G410 Textured | 60, 72, 80-mil | ASTM D4434 | II | N/A | MA |
| BASE SHEETS | G410 Feltback | 48, 60, 72, 80-mil | ASTM D4434 | III | N/A | MA |
| | Base Sheet NB 48 | | ASTM D4601 | II | N/A | OH |
| | Base Sheet NB 60 | | ASTM D4601 | II | N/A | OH |
| BASE PLY | Base Sheet NB 120 | | ASTM D4897 | N/A | N/A | AL |
| | Ply Sheet HA 87 | | ASTM D6163 | I | S | MS, OH |
| | Ply Sheet HA 118 | | ASTM D6164 | I | S | OH |
| VAPOR BARRIER | Ply Sheet TA 87 | | ASTM D6163 | I | S | OH |
| | Vapor Retarder SA 31 | | N/A (not codified) | N/A | N/A | QC |
| | Vapor Retarder SA 106 | | ASTM D6164 | I | S | MS, OH |
| | Vapor Retarder TA 138 | | ASTM D6164 | I | S | MS, OH |

TABLE 2: EVALUATED INSULATION BOARDS

| PRODUCT | MATERIAL STANDARD, ASTM C1289 | | | DIMENSIONAL OFFERING | | PLANT(S) |
|-----------------------------|-------------------------------|-------|--------|----------------------|-----------------|----------------|
| | TYPE | CLASS | GRADE | THICK (IN) | DIMENSIONS (FT) | |
| Sarnatherm | II | 1 | 2 or 3 | 1.0 to 4.5 | 4x4 or 4x8 | FL, IL, PA, UT |
| Sarnatherm-a | II | 1 | 2 or 3 | 1.0 to 4.6 | 4x4 or 4x8 | GA |
| Sarnatherm-M | II | 1 | 2 or 3 | 1.0 to 4.5 | 4x4 or 4x8 | FL |
| Sarnatherm CG | II | 2 | 2 or 3 | 0.5 to 4.5 | 4x4 or 4x8 | FL, IL, PA, UT |
| Sarnatherm-a CG | II | 2 | 2 or 3 | 1.5 to 4.0 | 4x4 or 4x8 | GA |
| Sarnatherm Roofboard-H | II | 4 | 1 | 0.5 | 4x4 or 4x8 | FL, PA |
| Sarnatherm Roof Board A-III | II | 4 | 1 | 0.5 | 4x4 or 4x8 | GA |
| Sarnatherm Roof Board-R | II | 4 | 1 | 0.5 | 4x4 or 4x8 | SC, TX |

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 High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This Evaluation Report does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.

- 5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907, FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117** 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 (February 2020)** for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

6. INSTALLATION:

Sika Sarnafil Roof Systems shall be installed in accordance with **Sika Sarnafil** published installation instructions, subject to the Limitations / Conditions of Use noted herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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

9. QUALITY ASSURANCE ENTITY:

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

- THE 64-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 | 7 |
| 1B | Wood | New, Reroof (Tear-Off) or Recover | B-1 | Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover | 7 |
| 1C | Wood | New, Reroof (Tear-Off) or Recover | C-1 | Mech. Attached Insulation, Bonded Roof Cover | 7 |
| 1D | Wood | New, Reroof (Tear-Off) or Recover | C-1 | Mech. Attached Insulation, Bonded Base Ply, Bonded Roof Cover | 8 |
| 1E | Wood | New, Reroof (Tear-Off) or Recover | C-2 | Insulated, Induction-Welded Roof Cover | 8 |
| 1F | Wood | New, Reroof (Tear-Off) or Recover | D-1 | Insulated, Mech. Attached Membrane – Stress Plates and Fasteners | 9 |
| 2A | Steel or Structural Concrete | New, Reroof (Tear-Off) or Recover | B-1 | Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover | 10-12 |
| 2B | Steel or Structural Concrete | New, Reroof (Tear-Off) or Recover | B-1 | Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover | 12 |
| 2C | Steel | New, Reroof (Tear-Off) or Recover | B-2 | Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover | 13-16 |
| 2D | Steel | New, Reroof (Tear-Off) or Recover | B-2 | Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Base Ply, Bonded Roof Cover | 17 |
| 2E | Steel or Structural Concrete | New, Reroof (Tear-Off) or Recover | C-1 | Mech. Attached Insulation, Bonded Roof Cover | 18-20 |
| 2F | Steel or Structural Concrete | New, Reroof (Tear-Off) or Recover | C-1 | Mech. Attached Insulation, Bonded Base Ply, Bonded Roof Cover | 20-22 |
| 2G | Steel | New, Reroof (Tear-Off) or Recover | C-1B | Mech. Attached and Bonded Insulation, Bonded Roof Cover | 22 |
| 2H | Steel | New, Reroof (Tear-Off) or Recover | C-1B | Mech. Attached and Bonded Insulation, Bonded Roof Cover | 22 |
| 2I | Steel | New, Reroof (Tear-Off) or Recover | C-2 | Insulated, Induction-Welded Roof Cover | 23-26 |
| 2J | Steel or Structural concrete | New, Reroof (Tear-Off) or Recover | D-1 | Insulated, Mech. Attached Membrane – Stress Plates and Fasteners | 27-28 |
| 2K | Steel or Structural concrete | New, Reroof (Tear-Off) or Recover | D-1 | Insulated, Mech. Attached Membrane – Battens and Fasteners | 28-29 |
| 3A | Structural concrete | New or Reroof (Tear-Off) | A-1 | Bonded Insulation, Bonded Roof Cover | 30-33 |
| 3B | Structural concrete | New or Reroof (Tear-Off) | A-1 | Bonded Insulation, Bonded Base Ply, Bonded Roof Cover | 34 |
| 3C | Structural concrete | New, Reroof (Tear-Off) or Recover | C-2 | Insulated, Induction-Welded Roof Cover | 35-36 |
| 3D | Structural concrete | New | F | Non-Insulated, Bonded Roof Cover | 37 |
| 4A | Lightweight concrete | New or Reroof (Tear-Off) | A-1 | LWC to Deck, Bonded Insulation, Bonded Roof Cover | 38-42 |
| 4B | Lightweight concrete | New or Reroof (Tear-Off) | A-2 | LWC to Deck, Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover | 42-43 |
| 4C | Lightweight concrete | New or Reroof (Tear-Off) | A-2 | LWC to Deck, Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Base Ply, Bonded Roof Cover | 44-50 |
| 4D | Lightweight concrete | New or Reroof (Tear-Off) | E-1 | LWC to Deck, Mechanically Attached Base Sheet, Bonded Base Ply, Bonded Roof Cover | 50-53 |
| 4E | Lightweight Concrete | New, Reroof (Tear-Off) | E-1 | Thermal Barrier to Deck, Temp Roof to Barrier, LWC to Temp Roof, Mech. Attached Base Sheet, Bonded Roof Cover | 54 |
| 4F | Lightweight concrete | New or Reroof (Tear-Off) | F | LWC to Deck, Bonded Roof Cover | 55-56 |
| 5A | Cementitious wood fiber | New or Reroof (Tear-Off) | A-1 | Bonded Insulation, Bonded Roof Cover | 57-58 |
| 5B | Cementitious wood fiber | Reroof (Tear-Off) or Recover | A-2 | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover | 58 |
| 6A | Existing gypsum | Reroof (Tear-Off) | A-1 | LWC to Deck, Bonded Insulation, Bonded Roof Cover | 59 |
| 6B | Existing gypsum | Reroof (Tear-Off) | E-1 | Mechanically Attached Base Sheet, Bonded Base Ply, Bonded Roof Cover | 59 |
| 7A | Various | Recover | A-1 | Bonded Insulation, Bonded Roof Cover | 60-61 |
| 7B | Steel | Recover | C-2 | Insulated, Induction-Welded Roof Cover | 62-63 |
| 7C | Various | Recover | F | Non-Insulated, Bonded Roof Cover | 63 |
| 8A | Fiber Composite | New | C-2 | Insulated, Induction-Welded Roof Cover | 64 |

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:

| FASTENER/PLATE OPTIONS | | | |
|------------------------|---------------|--|--|
| DECK TYPE | BY | PARTS | MINIMUM ENGAGEMENT |
| Wood | Sika Sarnafil | Sarnafastener #12, Sikaplan Board Fastener #12, Sarnafastener #14 or Sikaplan Fastener #14 with Sarnaplate | Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment |
| Steel | Sika Sarnafil | Sarnafastener #12, Sikaplan Board Fastener #12, Sarnafastener #14 or Sikaplan Fastener #14 with Sarnaplate | Minimum ¾-inch steel penetration and engage the top flute of the steel deck |
| Structural Concrete | Sika Sarnafil | Sarnafastener #14 or Sikaplan Fastener #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 FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover. Refer to Section 4 of body of this Evaluation Report for Sarnatherm insulation boards forming part of this Evaluation.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment for System Type D: Unless otherwise noted, use FBC Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020). For systems where a vapor barrier is installed, refer to Table 6 of FM Loss Prevention Data Sheet 1-29 (February 2020). For systems where no vapor barrier is installed, the OMG Plastic Plate (FL699) is permissible for preliminary insulation attachment.
- 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.
 If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
 When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
 The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

| INSULATION ADHESIVE REFERENCES | | | | |
|--------------------------------|---|----------------|----------|--|
| BY | ADHESIVE | REFERENCE | FBC FILE | MINIMUM RATE |
| Sika Sarnafil | Sarnacol 2163 | N/A | N/A | Continuous 0.5-inch wide ribbons, max. 12-inch o.c. |
| | Sarnacol AD Board Adhesive | Sarnacol AD-BA | | Continuous ½ to ¾-inch wide ribbons, max. 12-inch o.c. |
| | Sarnacol OM Board Adhesive | Sarnacol OM-BA | | Continuous 0.75 to 1-inch wide ribbons, max. 12-inch o.c. |
| Dupont de Nemours | INSTA STIK Quik Set Insulation Adhesive | Insta-Stik | FL720 | Continuous 0.75 to 1-inch wide ribbons, max. 12-inch o.c. |
| ICP Construction | Polyset Board-Max | Board-Max | FL22256 | Continuous 3-inch wide ribbons, max. 12-inch o.c. |
| | Polyset Commerical Roof Adhesive | CRA | FL1365 | Continuous 2.5 to 3.5-inch wide ribbons, max. 12-inch o.c. |
| Generic, ASTM D312, Type IV | hot asphalt | N/A | N/A | Full coverage at 25-30 lbs/square |

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

| MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS | | | |
|--|------------------------------------|-----------------------------|-----------|
| ADHESIVE | INSULATION | MIN. TAPERED THICKNESS (IN) | MDP (PSF) |
| Sarnacol 2163 | Any polyisocyanurate listed herein | 0.5 | -157.5 |
| Sarnacol AD-BA | Any polyisocyanurate listed herein | 0.5 | -157.5 |
| Sarnacol OM-BA | Sarnatherm-R | 0.5 | -45.0 |
| Sarnacol OM-BA | Firestone ISO 95+ GL | 0.5 | -187.5 |
| Sarnacol OM-BA | Sarnatherm | 0.5 | -315.0 |
| Sarnacol OM-BA | Sarnatherm-M | 0.5 | -315.0 |
| Sarnacol OM-BA | Sarnatherm-a CG | 0.5 | -345.0 |
| Sarnacol OM-BA | Sarnatherm-a | 0.5 | -487.5 |
| CRA | Any polyisocyanurate listed herein | 1.0 | -117.5 |

- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and 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 (February 2020) for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5 herein). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.

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

| MEMBRANE / ADHESIVE COMBINATIONS | | | |
|---|--|----------------------|--|
| 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 Invinsa Roof Board, Sarnatherm Roofboard H, Sarnatherm Roof Board A-III or Sarnatherm Composite Roofboard H: 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 Invinsa Roof Board, Sarnatherm Roofboard H, Sarnatherm Roof Board A-III or Sarnatherm Composite Roofboard H: 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. |
| Ply Sheet HA 87 or Ply Sheet HA 118 | Hot asphalt | Wet lay (substrate) | 20-40 lbs/square |
| Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA | Wet lay (substrate) | Full-coverage at 1.5 – 2.5 gal/square or 0.5 to 1-inch wide ribbons spaced as noted; laps sealed with Vapor Retarder Adhesive CA |
| Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA-SB | Wet lay (substrate) | 1.5 - 2.0 gal/square |

15A For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes. 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.

15B For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.

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

| VAPOR BARRIER OPTIONS, STRUCTURAL CONCRETE DECK, ADHERED INSULATION | | | | | |
|---|--|---|---|---|------------|
| OPTION # | PRIMER | VAPOR BARRIER | | INSULATION ADHESIVE PER TABLE 3A OR 3B (NOTES 6, 7 & 8) | MDP (PSF)* |
| | | TYPE | APPLICATION | | |
| C-VB-1. | None | Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA-SB | Sarnacol OM-BA, 12-inch o.c. | -120.0 |
| C-VB-2. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Sarnavap SA, Vapor Retarder 106 or Vapor Retarder SA 31 | Self-adhering | Sarnacol OM-BA, 12-inch o.c. | -165.0 |
| C-VB-3. | ASTM D41 or Vapor Retarder Primer TA | Ply Sheet HA 87 or Ply Sheet HA 118 | Hot asphalt | Sarnacol OM-BA, 12-inch o.c. | -165.0 |
| C-VB-4. | None | Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA, full coverage | Sarnacol OM-BA, 12-inch o.c. | -165.0 |

| VAPOR BARRIER OPTIONS, STRUCTURAL CONCRETE DECK, ADHERED INSULATION | | | | | | |
|---|--|---|-------------|--|---|--------|
| OPTION # | PRIMER | VAPOR BARRIER | | INSULATION ADHESIVE PER TABLE 3A OR 3B (NOTES 6, 7 & 8) | MDP (PSF)* | |
| | | TYPE | APPLICATION | | | |
| C-VB-5. | ASTM D41 or Vapor Retarder Primer TA | Ply Sheet TA 87 | | Torched | Sarnacol OM-BA, 12-inch o.c. | -165.0 |
| C-VB-6. | ASTM D41 | One or two plies ASTM D4601 base and/or ASTM D2178, type IV or VI ply sheet | | Hot asphalt | Sarnacol OM-BA, 12-inch o.c. | -352.5 |
| C-VB-7. | None | Ply Sheet HA 87 or Ply Sheet HA 118 | | Vapor Retarder Adhesive CA-SB | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -120.0 |
| C-VB-8. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Sarnavap SA | | Self-adhering | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -165.0 |
| C-VB-9. | Vapor Retarder Primer TA | Ply Sheet HA 87 or Ply Sheet HA 118 | | Hot asphalt | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -165.0 |
| C-VB-10. | None | Ply Sheet HA 87 or Ply Sheet HA 118 | | Vapor Retarder Adhesive CA, full coverage | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -165.0 |
| C-VB-11. | Vapor Retarder Primer TA | Ply Sheet TA 87 | | Torched | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -165.0 |
| C-VB-12. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Vapor Retarder SA 31 | | Self-adhering | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -240.0 |
| C-VB-13. | ASTM D41 | Ply Sheet HA 87 or Ply Sheet HA 118 | | Hot asphalt | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -270.0 |
| C-VB-14. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Vapor Retarder SA 106 | | Self-adhering | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -315.0 |
| C-VB-15. | ASTM D41 | Ply Sheet TA 87 | | Torched | Sarnacol 2163 or Sarnacol AD-BA, 12-inch o.c. | -382.5 |
| C-VB-16. | 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 | | Hot asphalt / Torched | Board-Max, 12-inch o.c. | -169.0 |
| C-VB-17. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Sarnavap SA or Vapor Retarder SA 31 | | Self-adhering | Polysset Board-Max, 12-inch o.c. | -262.5 |
| C-VB-18. | ASTM D41 | One or two plies ASTM D4601 base and/or ASTM D2178, type IV or VI ply sheet | | Hot asphalt | Board-Max, 12-inch o.c. | -262.5 |
| C-VB-19. | 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 | | Hot asphalt | Board-Max, 12-inch o.c. | -262.5 |
| C-VB-20. | 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 | | Hot asphalt / Torched | CRA, 12-inch o.c. | -169.0 |
| C-VB-21. | Vapor Retarder Primer SB or Vapor Retarder Primer VC | Sarnavap SA or Vapor Retarder SA 31 | | Self-adhering | CRA, 12-inch o.c. | -262.5 |
| C-VB-22. | ASTM D41 | One or two plies ASTM D4601 base and/or ASTM D2178, type IV or VI ply sheet | | Hot asphalt | CRA, 12-inch o.c. | -262.5 |
| C-VB-23. | 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 | | Hot asphalt | CRA, 12-inch o.c. | -270.0 |

- 17 Optional vapor barrier (dry-in roof) options for use over **structural concrete deck** followed by **lightweight concrete** carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in the LWC system listing tables applies.

| VAPOR BARRIER (DRY-IN ROOF) OPTIONS: | | | |
|--|----------|--|-----------|
| STRUCTURAL CONCRETE DECK / VAPOR BARRIER / LIGHTWEIGHT CONCRETE PER LWC SYSTEM TABLES: | | | |
| OPTION # | PRIMER | VAPOR BARRIER / DRY-IN / TEMPORARY ROOF | MDP (PSF) |
| LWC-VB-1. | ASTM D41 | Ply Sheet TA 87 or Vapor Retarder TA 138 | -367.5 |

- 18 For System Types C-1, C-2, D-1 or Type D-2, 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) 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 (February 2020) for design and installation recommendations and limitations.
- 19 The following products are interchangeable within the scope of this Evaluation Report:

| ACCEPTABLE ALTERNATES | | | | |
|--------------------------------|--------------------------|----------------------------------|---------------------------------------|----------|
| SUB-CATEGORY | BY | LISTED PRODUCT HEREIN | ALTERNATE | |
| | | | PRODUCT | FBC FILE |
| MEMBRANE | Sika Sarnafil | G410 | G410 Textured | FL9274 |
| ADHESIVES | Sika Sarnafil | Sarnacol 2163 | Millennium One Step Foamable Adhesive | FL1800 |
| | | Sarnacol AD Board Adhesive | Millennium PG-1 Pump Grade Adhesive | |
| | | Sarnacol OMG Board Adhesive | OlyBond 500 | FL1608 |
| ROOFING INSULATION | Sika Sarnafil | Sarnatherm-a | ACFoam II | FL17989 |
| | | Sarnatherm-a CG | ACFoam III | |
| | | Sarnatherm Roof Board A-III | ACFoam HD CoverBoard | |
| | | Sarnatherm | H-Shield | FL5968 |
| | | Sarnatherm CG | H-Shield CG | |
| | | Sarnatherm Roofboard-H | H-Shield HD | |
| | | Sarnatherm Composite Roofboard-H | H-Shield HD Composite CG | |
| | | Sarnatherm-M | ENRGY 3 | FL4205 |
| | | Sarnatherm-M CGF | ENRGY 3 CGF | |
| | | Sarnatherm-R | Multi-Max FA3 | |
| | Sarnatherm-R CG | Ultra-Max | FL11207 | |
| | Sarnatherm Roof Board-R | Ultra-Max HD | | |
| | Georgia-Pacific Gypsum | DensDeck Prime | DensDeck StormX Prime Roof Board | FL1250 |
| ROOFING FASTENER | Sika Sarnafil | Sarnafastener #12 | OMG #12 Standard Roofgrip | FL699 |
| | | Sikaplan Board Fastener #12 | | |
| | | Sarnafastener #14 | OMG Heavy Duty Fastener | |
| | | Sikaplan Fastener #14 | | |
| | | Sarnafastener #15 XP | OMG XHD Fastener | |
| | | Sikaplan Fastener #15 | | |
| | | Sarnafastener MAXLoad | OMG Maxload Fastener | |
| | | Sarnadisc MAXLoad | OMG Maxload 3 in. Seam Plate | |
| | | Sarnadisc RhinoBond | OMG RHINOBOND Insulation Plate (PVC) | |
| | | Sikaplan RhinoBond Disc | | |
| | | Sarnaplate | OMG Flat Bottom Metal Plate | |
| | | Sikaplan Disc | OMG Eyehook Accuseam Plate | |
| Sarnarail Polymer Batten Strip | OMG Polymer Batten Strip | | | |

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

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

| System No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|------------|--|---|----------------------|---|----------------------|--|---|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| W-1. | Min. 19/32" plywood or OSB at max. 24-inch spans | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | G410, S327 or 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | 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 | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | G410, S327 or Sikaplan Adhered S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -52.5 |

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

| System No. | Deck (Note 1) | Base Insulation Layer | | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|------------|------------------------|---|--------------------|---------------------------|-------------------------------|---|---|--|-----------|
| | | Type | Fastener (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach | |
| W-5. | Min. 0.75-inch plywood | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, ENRGY-3 or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410, S327 or Sikaplan Adhered, G410 Feltback, S327 Feltback or 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-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck (Note 1) | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Roof Cover (Note 15) | | MDP (psf) |
|------------|--------------------------------------|--|-------------------------------|---------------------|---------------------------|---|---|-----------|
| | | | Type | Fasteners (Note 11) | Attach | Type | Attach | |
| W-6. | Min. 23/32" (nominal ¾") CDX plywood | (Optional) One or more layers, any combination, loose laid | Min. 1.5-inch Sarnatherm-a | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered, G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| W-7. | Min. 23/32" (nominal ¾") CDX plywood | (Optional) One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered, G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| W-8. | Min. 23/32" (nominal ¾") CDX plywood | (Optional) One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Note 2 | 1 per 1.6 ft ² | G410, S327 or Sikaplan Adhered, G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121 | -67.5 |

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

| System No. | Deck (Note 1) | Slip Sheet | Base Insulation and/or Thermal Barrier Layer(s) (Note 13) | Top Insulation Layer | | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|-------------------------|---|--|-------------------------------|--------------------------------|---------------------------|--------------------------------|--|---|--|-----------|
| | | | | Type | Fasteners (Note 11) | Attach | | Base Ply | Ply | Cap Ply | |
| W-9. | Min. 19/32-inch plywood | (Optional) One or more layers Base Sheet NB 48 or Base Sheet NB 120, loose laid | (Optional) One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck 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-10. | Min. 19/32-inch plywood | (Optional) One or more layers Base Sheet NB 48 or Base Sheet NB 120, loose laid | (Optional) One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Sarnafastener #14 & Sarnaplate | 1 per 1.6 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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: INSULATED, INDUCTION-WELDED ROOF COVER**

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|------------|---|--|--|--------------------|-------------------------|--|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| W-11. | Min. 15/32-inch APA rated plywood at 24" span | (Optional) One or more layers, any combination | Sarnafastener #14 or Sikaplan Fastener #14 with Sarnadisc RhinoBond plates | 36 | 24 | S327, ¹⁰ S327, Sikaplan Fastened, minimum 60-mil, induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -22.5 |
| W-12. | Min. 15/32-inch APA rated plywood at 24" span | (Optional) One or more layers, any combination | Sarnafastener #14 or Sikaplan Fastener #14 with Sarnadisc RhinoBond plates | 24 | 24 | S327, ¹⁰ S327, Sikaplan Fastened, minimum 60-mil, induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -37.5 |
| W-13. | Min. 0.75-inch APA rated plywood at 24" span | (Optional) One or more layers, any combination | Sarnafastener #14 or Sikaplan Fastener #14 with Sarnadisc RhinoBond plates | 36 | 24 (staggered) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -45.0 |

**TABLE 1F: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS**

| System No. | Deck (Note 1) | Insulation (Note 13) | | Roof Cover | | | MDP (psf) |
|------------|---|-------------------------------------|------------------------|--------------------------------|--|---|-----------|
| | | Type | Attach | Type | Fasteners (Note 11) | Attachment | |
| W-14. | Min. 15/32-inch APA rated plywood at 24" span | One or more layers, any combination | Preliminarily attached | Sikaplan Fastened, min. 60-mil | Sikaplan Fastener #14 with Sikaplan Disc | 9-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.5-inch heat weld. | -30.0 |
| W-15. | Min. 15/32-inch APA rated plywood at 24" span | One or more layers, any combination | Preliminarily attached | Sikaplan Fastened, min. 60-mil | Sikaplan Fastener #14 with Sikaplan Disc | 6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. Laps sealed with 1.5-inch heat weld. | -37.5 |
| W-16. | Min. 15/32-inch APA rated plywood at 24" span | One or more layers, any combination | Preliminarily attached | Sikaplan Fastened, min. 60-mil | Sikaplan Fastener #14 with Sikaplan Disc | 12-inch o.c. within 5.5-inch wide laps spaced 54.5-inch o.c. Laps sealed with 1.5-inch heat weld. | -45.0 |
| W-17. | Min. 15/32-inch APA rated plywood at 24" span | One or more layers, any combination | Preliminarily attached | Sikaplan Fastened, min. 60-mil | Sikaplan Fastener #14 with Sikaplan Disc | 6-inch o.c. within 5.5-inch wide laps spaced 54.5-inch o.c. Laps sealed with 1.5-inch heat weld. | -75.0 |

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

| System No. | Deck (Note 1) | Base Insulation Layer | | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|--|---|--------------------|---------------------------|--|---|--------------------------------|---|-----------|
| | | Type | Fastener (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | | |
| S-1. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Note 2 | 1 per 2.9 ft ² | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -30.0 |
| S-2. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Note 2 | 1 per 2.9 ft ² | Min. 0.5-inch Sarnatherm Roofboard A-III | Sarnacol 2163 or Sarnacol AD-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -30.0 |
| S-3. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Note 2 | 1 per 2.0 ft ² | One or more layers of Base Insulation | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -37.5* |
| S-4. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, ENRGY-3 or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -37.5* |
| S-5. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-M or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | One or more layers of Base Insulation or min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| S-6. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Note 2 | 1 per 2.0 ft ² | One or more layers of Base Insulation | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -45.0* |
| S-7. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-M or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA, Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| S-8. | Min. 22 ga., Type B, Grade 40 steel | Min. 2-inch Sarnatherm-a | Note 2 | 1 per 1.0 ft ² | Insulation (optional): Min. 1-inch Sarnatherm-a Coverboard: Min. 0.25-inch DensDeck Prime | Board-Max | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -97.5 |
| S-9. | Min. 22 ga., Type B, Grade 40 steel | Min. 2-inch Sarnatherm-a | Note 2 | 1 per 1.0 ft ² | Insulation (optional): Min. 1-inch Sarnatherm-a Coverboard: Min. 0.25-inch DensDeck Prime | Board-Max | G410 | Sarnacol 2170 VC | -127.5 |

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

| System No. | Deck (Note 1) | Base Insulation Layer | | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|--|--|--------------------|---------------------------|--|---|---|---|-----------|
| | | Type | Fastener (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach | |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | |
| S-10. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Note 2 | 1 per 2.9 ft ² | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | 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. | -30.0 |
| S-11. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Note 2 | 1 per 2.9 ft ² | Min. 0.5-inch Sarnatherm Roofboard A-III | 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 |
| S-12. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-M or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | One or more layers of Base Insulation or min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2121 | -45.0* |
| S-13. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Note 2 | 1 per 2.0 ft ² | One or more layers of Base Insulation | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| S-14. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-M or ISO 95+ GL | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA, Sarnacol AD-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| S-15. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch Sarnatherm, Sarnatherm-a or Sarnatherm-M | Note 2 | 1 per 2.7 ft ² | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | Insta-Stik, Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121 | -45.0* |
| S-16. | 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 2.7 ft ² | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | Insta-Stik, Sarnacol 2163 or 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* |
| S-17. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a or Sarnatherm-M | Note 2 | 1 per 1.3 ft ² | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | Insta-Stik, Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | 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 2A: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck (Note 1) | Base Insulation Layer | | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|------------|-------------------------------------|--------------------------|--------------------|---------------------------|--|----------------------|---|--|-----------|
| | | Type | Fastener (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S-18. | Min. 22 ga., Type B, Grade 40 steel | Min. 2-inch Sarnatherm-a | Note 2 | 1 per 1.0 ft ² | Insulation (optional): Min. 1-inch Sarnatherm-a Coverboard: Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -97.5 |

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

| System No. | Deck (Note 1) | Base Insulation Layer | | | Top Insulation Layer | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|--|--|--------------------|---------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | Type | Fastener (Note 11) | Attach | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| S-19. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |
| S-20. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 2.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| S-21. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 4.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |
| S-22. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 4.0 ft ² | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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 15) | | MDP (psf) |
|--|-------------------------------------|---|------------------|---------------------------|--|--|---|----------------------|---|-----------|
| | | Type | Fasten (Note 11) | Attach | | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | | | |
| S-23. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck or DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-24. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 4.0 ft ² | Vapor Retarder SA 106 or Vapor Retarder SA 31, self-adhering | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-25. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-26. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck or DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-27. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 4.0 ft ² | Vapor Retarder SA 106 or Vapor Retarder SA 31, self-adhering | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-28. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |

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 15) | | MDP (psf) |
|--|-------------------------------------|---|------------------|---------------------------|--|---|---|--------------------------------|---|-----------|
| | | Type | Fasten (Note 11) | Attach | | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S-29. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board | Note 2 | 1 per 2.7 ft ² | Sarnavap SA or Vapor Retarder SA 106, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -60.0 |
| S-30. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board | Note 2 | 1 per 2.7 ft ² | Sarnavap SA or Vapor Retarder SA 106, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | Sarnacol 2163 or Sarnacol AD-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -60.0 |
| S-31. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 2.7 ft ² | Vapor Retarder SA 31, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | Sarnacol 2163 or Sarnacol AD-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -60.0 |
| S-32. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 2.7 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | Sarnacol 2163 or Sarnacol AD-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -60.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | | |
| S-33. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck or DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-34. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 4.0 ft ² | Vapor Retarder SA 106 or Vapor Retarder SA 31, self-adhering | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |

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 15) | | MDP (psf) |
|---------|-------------------------------------|---|------------------|---------------------------|--|---|---|--------------------------------|--|-----------|
| | | Type | Fasten (Note 11) | Attach | | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S-35. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-36. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck or DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet TA 87 or Vapor Barrier TA 138, torch applied | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-37. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 4.0 ft ² | Vapor Retarder SA 106 or Vapor Retarder SA 31, self-adhering | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-38. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M 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* |
| S-39. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board | Note 2 | 1 per 2.7 ft ² | Sarnavap SA or Vapor Retarder SA 106, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | 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 |

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 15) | | MDP (psf) |
|---------|-------------------------------------|---|------------------|---------------------------|--|--|---------------------------------|--------------------------------|---|-----------|
| | | Type | Fasten (Note 11) | Attach | | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S-40. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board | Note 2 | 1 per 2.7 ft ² | Sarnavap SA or Vapor Retarder SA 106, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | 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 |
| S-41. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 2.7 ft ² | Vapor Retarder SA 31, self-adhering | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | 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 |
| S-42. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 2.7 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | Insulation (optional): Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M Coverboard: Min. 0.5-inch Sarnatherm Roof Board A-III | 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 DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED BASE PLY, BONDED ROOF COVER

| Sys No. | Deck (Note 1) | Thermal Barrier | | | Temp Roof | Insulation Layer(s) | | Roof Cover (Note 15) | | | MDP (psf) |
|--|-------------------------------------|---|------------------|---------------------------|--|--|---|---|------|--|-----------|
| | | Type | Fasten (Note 11) | Attach | | Type | Attach (Notes 6,7,8) | Base Ply | Ply | Cap Ply | |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | | | |
| S-43. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 4.0 ft ² | Vapor Retarder SA 31, self-adhering | One or more layers, min. 1.5-inch Sarnatherm or Sarnatherm-a followed by min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | S327 Feltback, G410 Feltback or Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |
| S-44. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 4.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | One or more layers, min. 1.5-inch Sarnatherm or Sarnatherm-a followed by min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | S327 Feltback, G410 Feltback or Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |
| S-45. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime primed with Vapor Retarder Primer SB or VC | Note 2 | 1 per 2.7 ft ² | Vapor Retarder SA 31, self-adhering | One or more layers, min. 1.5-inch Sarnatherm or Sarnatherm-a followed by min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | S327 Feltback, G410 Feltback or Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -60.0 |
| S-46. | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch DensDeck Prime | Note 2 | 1 per 2.7 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA or Vapor Retarder Adhesive CA-SB | One or more layers, min. 1.5-inch Sarnatherm or Sarnatherm-a followed by min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | S327 Feltback, G410 Feltback or Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -60.0 |

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

| System No. | Deck (Note 1) | Vapor Barrier | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Roof Cover (Note 15) | | MDP (psf) |
|--|---|---------------------------------|---|--|---------------------|---------------------------|--------------------------------|---|-----------|
| | | | | Type | Fasteners (Note 11) | Attach | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | | |
| S-47. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) See Note 18 | 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 InvinSA Roof Board, min. 0.5-inch Sarnatherm Roof Board A-III or Sarnatherm Roofboard H or min. 2-inch Sarnatherm Composite Roofboard H | Note 2 | 1 per 2.0 ft ² | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -37.5 |
| S-48. | 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2121, Sikaplan SSMA | -45.0* |
| S-49. | 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 | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -45.0* |
| S-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. 0.25-inch DensDeck Prime | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -45.0* |
| S-51. | 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 DensDeck Prime | Note 2 | 1 per 4.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| S-52. | 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 DensDeck Prime | Note 2 | 1 per 2.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -60.0 |
| S-53. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.3 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121. Sikaplan SSMA | -67.5 |
| S-54. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -82.5 |
| S-55. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.0 ft ² | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -97.5 |
| S-56. | 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 DensDeck Prime | Note 2 | 1 per 1.0 ft ² | G410 or S327 | Sarnacol 2170 VC | -127.5 |

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

| System No. | Deck (Note 1) | Vapor Barrier | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Roof Cover (Note 15) | | MDP (psf) |
|--|---|---------------------------------|---|---|---------------------|---------------------------|---|---|-----------|
| | | | | Type | Fasteners (Note 11) | Attach | Type | Attach | |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | |
| S-57. | 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 2.7 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121 | -37.5* |
| S-58. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) See Note 18 | 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 Invinsa Roof Board, min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Sarnatherm Roof Board-R or min. 2-inch Sarnatherm Composite Roofboard H | Note 2 | 1 per 2.0 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 |
| S-59. | 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 DensDeck Prime | Note 2 | 1 per 2.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| S-60. | 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 DensDeck Prime | Note 2 | 1 per 4.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| S-61. | 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 2.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121 | -45.0* |
| S-62. | 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 4.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170 VC, Sarnacol 2121 | -45.0* |
| S-63. | 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 | Note 2 | 1 per 2.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| S-64. | 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Note 2 | 1 per 2.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -45.0* |
| S-65. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 2.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -52.5 |
| S-66. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.3 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -67.5 |

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

| System No. | Deck (Note 1) | Vapor Barrier | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Roof Cover (Note 15) | | MDP (psf) |
|------------|---|---------------|--|--|---------------------|---------------------------|---|---|-----------|
| | | | | Type | Fasteners (Note 11) | Attach | Type | Attach | |
| S-67. | 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 or Sarnatherm-a | Note 2 | 1 per 1.3 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA, 12-inch o.c. | -67.5 |
| S-68. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -82.5 |
| S-69. | 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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2 | 1 per 1.0 ft ² | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c., Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -97.5 |
| S-70. | 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 DensDeck Prime | Note 2 | 1 per 1.0 ft ² | G410 Feltback or S327 Feltback | Sarnacol 2170 VC | -127.5 |

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

| System No. | Deck (Note 1) | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|--|---|-------------------------------|---------------------|---------------------------|--------------------------------|--|---|--|-----------|
| | | | Type | Fasteners (Note 11) | Attach | | Base Ply | Ply | Cap Ply | |
| S-71. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Note 2 | 1 per 2.6 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0* |
| S-72. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | 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* |
| S-73. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Note 2 | 1 per 2.0 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |

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

| System No. | Deck (Note 1) | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|--|--|-------------------------------|--|---------------------------|--------------------------------|---|---|--|-----------|
| | | | Type | Fasteners (Note 11) | Attach | | Base Ply | Ply | Cap Ply | |
| S-74. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Note 2 | 1 per 2.0 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* |
| S-75. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Sarnafastener #14 or Sarnafastener-XP & Sarnaplate | 1 per 1.8 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -60.0 |
| S-76. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.25-inch DensDeck Prime | Sarnafastener #14 or Sarnafastener-XP & Sarnaplate | 1 per 1.8 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 |
| S-77. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.5-inch DensDeck Prime | Sarnafastener #14 or Sarnafastener-XP & Sarnaplate | 1 per 1.6 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -67.5 |
| S-78. | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.5-inch DensDeck 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 |
| S-79. | Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.5-inch DensDeck Prime | Sarnafastener-XP & Sarnaplate | 1 per 1.6 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -75.0 |
| S-80. | Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, min. 1-inch, any combination, loose laid | Min. 0.5-inch DensDeck 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 |

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

| System No. | Deck (Note 1) | Base Insulation Layer (Note 13) | Top Insulation Layer | | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|---|--|------------------------------|--|---------------------------|--------|---|---|--|-----------|
| | | | Type | Fasteners (Note 11) | Attach | | Base Ply | Ply | Cap Ply | |
| S-81. | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid | Min. 0.5-inch DensDeck Prime | Sarnafastener #14 or Sarnafastener-XP & Sarnaplate | 1 per 1.0 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -82.5 |
| S-82. | Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid | Min. 0.5-inch DensDeck Prime | Sarnafastener #14 or Sarnafastener-XP & Sarnaplate | 1 per 1.0 ft ² | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |

TABLE 2G: 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 15) | MDP (psf) |
|------------|------------------------------------|--|------------------------------|------------------------------|--|--|-----------|
| | | | Type | Adhesive (Notes 6,7,8) | Fastening (Note 11) | | |
| S-83. | Min. 22 ga. type B, Grade 80 steel | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M, loose laid | Min. 0.5-inch DensDeck Prime | Sarnacol OM-BA, 12-inch o.c. | Sarnafastener-XP and Sarnaplate, 1 per 1.0 ft ² | G410, S327 or Sikaplan Adhered in Sarnacol 2170 VC | -127.5 |

TABLE 2H: 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 15) | | | MDP (psf) |
|------------|------------------------------------|--|------------------------------|------------------------------|--|---|---|--|-----------|
| | | | Type | Adhesive (Notes 6,7,8) | Fastening (Note 11) | Base Ply | Ply | Cap Ply | |
| S-84. | Min. 22 ga. type B, Grade 80 steel | Min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M, loose laid | Min. 0.5-inch DensDeck Prime | Sarnacol OM-BA, 12-inch o.c. | Sarnafastener-XP and Sarnaplate, 1 per 1.0 ft ² | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |

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

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|---|---|--|--|--------------------|-------------------------|--|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| TRUFAST IW PVC PLATE INDUCTION WELDED SYSTEMS: | | | | | | | |
| S-85. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -45.0 |
| S-86. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -45.0 |
| S-87. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| S-88. | Min. 20 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| S-89. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| S-90. | Min. 18 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| S-91. | Min. 20 ga., Type B, Grade 33 steel deck; 4.5 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| S-92. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| S-93. | Min. 20 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| S-94. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| S-95. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 36 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -82.5 |

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

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|------------|---|---|--|--|-------------------------|--|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| S-96. | Min. 18 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| S-97. | Min. 20 ga., Type B, Grade 33 steel deck; 5 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| S-98. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| S-99. | Min. 20 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| S-100. | Min. 18 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| S-101. | Min. 20 ga., Type B, Grade 33 steel deck; 5 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| S-102. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| S-103. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 36 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -150.0 |
| S-104. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 4.0 ft ² (8 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| | | <i>The roof insulation boards are placed with the 8 ft. board dimension oriented parallel to the steel deck ribs with adjacent boards offset along their 8 ft. dimension by 12 in., to stagger the fastener/plate fastening pattern</i> | | | | | |
| S-105. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 3.2 ft ² (10 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -67.5 |
| | | <i>The roof insulation boards are placed with the 8 ft. board dimension oriented parallel to the steel deck ribs with adjacent boards offset along their 4 ft. dimension by 12 in., to stagger the fastener/plate fastening pattern</i> | | | | | |
| S-106. | Min. 22 ga., Type B, Grade 33 steel deck; 6 ft span, #12 HWH | One or more layers, any combination, min. 1.5-inch thick | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 2.7 ft ² (12 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -82.5 |

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

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|--------------------------------------|---|--|---|--|-------------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| | Teks 5 Fasteners with 3/4" washers, 6" o.c. | <i>The roof insulation boards are placed with the 8 ft. board dimension oriented perpendicular to the steel deck ribs with adjacent boards offset along their 4 ft. dimension by 12 in., to stagger the fastener/plate fastening pattern</i> | | | | | |
| S-107. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners with 3/4" washers, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick <i>The roof insulation boards are placed with the 8 ft. board dimension oriented perpendicular to the steel deck ribs with adjacent boards offset along their 4 ft. dimension by 12 in., to stagger the fastener/plate fastening pattern</i> | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 2.0 ft ² (16 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| S-108. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, #12 HWH Tek 5 Fasteners with 3/4" washers, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick <i>The roof insulation boards are placed with the 8 ft. board dimension oriented parallel to the steel deck ribs with adjacent boards offset along their 4 ft. dimension by 6 in., to stagger the fastener/plate fastening pattern</i> | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 1.8 ft ² (18 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -120.0 |
| S-109. | Min. 22 ga., Type B, Grade 80 steel deck; 6 ft span, two (2) #12 HWH Tek 5 Fasteners with 3/4" washers, 6" o.c. | One or more layers, any combination, min. 1.5-inch thick <i>The roof insulation boards are placed with the 8 ft. board dimension oriented parallel to the steel deck ribs with adjacent boards offset along their 4 ft. dimension by 6 in., to stagger the fastener/plate fastening pattern</i> | Trufast #15 EHD Fasteners with Trufast IW PVC Plates | 1 per 1.3 ft ² (24 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -150.0 |
| SARNADISC RHINO BOND SYSTEMS: | | | | | | | |
| S-110. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 72 | 18 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -30.0 |
| S-111. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 60 | 18 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -37.5 |
| S-112. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 72 | 12 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -45.0 |
| S-113. | Min. 22 ga. type B, Grade 33 steel | One or more layers, any combination | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 36 | 24 (staggered) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -45.0* |
| S-114. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 60 | 12 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -52.5 |
| S-115. | Min. 22 ga. Type B, Grade 40 steel | One or more layers, any combination | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 24 | 24 (grid) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -52.5 |

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

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|---|---|--|---|--|-------------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| S-116. | Min. 22 ga. type B, Grade 33 steel | One or more layers, any combination | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 24 | 24 (staggered) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool in accordance with manufacturer's instructions. | -60.0 |
| S-117. | Min. 22 ga. Type B, Grade 40 steel | One or more layers, any combination | Sarnafastener-MAXLoad and with Sarnadisc RhinoBond plates | 24 | 24 (grid) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -60.0 |
| S-118. | Min. 22 ga., Type B, Grade 50 steel at max. 6 ft spans | One or more layers, any combination | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 24 | 24 | Min. 60-mil S327 or Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -75.0 |
| S-119. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 72 | 6 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -90.0 |
| S-120. | Min. 18 ga., Grade 33 steel deck | One or more layers, any combination, prelim attach | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates | 60 | 6 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -105.0 |
| ISOWELD INDUCTION WELDING SYSTEMS: | | | | | | | |
| S-121. | Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 60 | 12 | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -45.0 |
| S-122. | Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 36 | 24 (staggered) | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -52.5 |
| S-123. | Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 24 | 18 (staggered) | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -82.5 |
| S-124. | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 1 per 3.2 ft ² (10 parts per 4x8 ft board) | | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -75.0 |
| | <i>Note: For steel deck installations, the roof insulation boards are placed with the 8 ft. board dimension oriented perpendicular to the steel deck ribs. The plate/fastener pattern is offset by 12-inch from each adjacent row of insulation boards.</i> | | | | | | |
| S-125. | Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 60 | 6 | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -90.0 |

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS**

| System No. | Deck (Note 1) | Insulation (Note 13) | | Roof Cover (Note 15A) | | | MDP (psf) |
|------------|---|-------------------------------------|------------------------|--|---|---|-----------|
| | | Type | Attach | Type | Fasteners (Note 11) | Attachment | |
| S-126. | 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 Sikaplan Fastener #15 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 |
| S-127. | 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 Sikaplan Fastener #15 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 |
| S-128. | 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 |
| S-129. | 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 or 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 0.875-inch heat weld. | -45.0 |
| S-130. | 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 |
| S-131. | 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 |
| S-132. | 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 |
| S-133. | 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 or 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 1.5-inch heat weld. | -52.5 |
| S-134. | 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 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 0.5-inch heat weld. | -52.5 |
| S-135. | 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 |
| S-136. | 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 |
| S-137. | Min. 22 ga., Type B, Grade 80 steel | One or more layers, any combination | Preliminarily attached | ¹⁰ S327 (min. 60-mil) | Sarnafastener-XP or Sikaplan Fastener #15 with SFS Dekfast PLT-O2-3/4-12B plate | 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld. | -52.5 |
| S-138. | 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 Sikaplan Fastener #15 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 |
| S-139. | 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 or Sikaplan Fastener #15 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 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER | | | | | | | |
|---|---|-------------------------------------|------------------------|---------------------------------------|--|--|-----------|
| SYSTEM TYPE D-1: MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS | | | | | | | |
| System No. | Deck (Note 1) | Insulation (Note 13) | | Roof Cover (Note 15A) | | | MDP (psf) |
| | | Type | Attach | Type | Fasteners (Note 11) | Attachment | |
| S-140. | 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 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 1.75-inch heat weld. | -60.0 |
| S-141. | 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 |
| S-142. | 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 |
| S-143. | 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 Sikaplan Fastener #15 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 |
| S-144. | 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 |
| S-145. | 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 2K: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER | | | | | | | |
|---|---|-------------------------------------|------------------------|---------------------------------------|--|---|-----------|
| SYSTEM TYPE D-1: MECHANICALLY ATTACHED MEMBRANE – BATTENS AND FASTENERS | | | | | | | |
| System No. | Deck (Note 1) | Insulation (Note 13) | | Roof Cover (Note 15A) | | | MDP (psf) |
| | | Type | Attach | Type | Fasteners (Note 11) | Attachment | |
| S-146. | 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 Sikaplan Fastener #15 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 |
| S-147. | 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 |
| S-148. | 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 |
| S-149. | 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 Sikaplan Fastener #15 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 |
| S-150. | 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 |
| S-151. | 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 Sikaplan Fastener #15 with 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 |

**TABLE 2k: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: MECHANICALLY ATTACHED MEMBRANE – BATTENS AND FASTENERS**

| System No. | Deck (Note 1) | Insulation (Note 13) | | Roof Cover (Note 15A) | | | MDP (psf) |
|------------|---|-------------------------------------|------------------------|---------------------------------------|--|--|-----------|
| | | Type | Attach | Type | Fasteners (Note 11) | Attachment | |
| S-152. | 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 |
| S-153. | 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 Sikaplan Fastener #15 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 |
| S-154. | 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 |
| S-155. | 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 |
| S-156. | 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 |
| S-157. | 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 16 FOR VAPOR BARRIER OPTIONS

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|------------------------------------|--|---------------------------------|---|---------------------------------|--------------------------------|--|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | |
| C-1 | Min. 2,500 psi structural concrete | Min. 2-inch Sarnatherm-a | Insta-Stik | (Optional) Additional layers base insulation | Insta-Stik | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| C-2 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -97.5 |
| C-3 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| C-4 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -150.0 |
| C-5 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Sarnacol OM-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol OM-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -165.0 |
| C-6 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) Additional layers base insulation | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -97.5 |
| C-7 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| C-8 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) additional layers of base insulation | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| C-9 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol 2163 or Sarnacol AD-BA | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -165.0 |
| C-10 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) Additional layers base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| C-11 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -127.5 |

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

NOTE: REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|------------------------------------|--|----------------------|--|----------------------|---|---|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| C-12 | Min. 2,500 psi structural concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| C-13 | Min. 2,500 psi structural concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2121, Sikaplan SSMA | -262.5 |
| C-14 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| C-15 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -150.0 |
| C-16 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Invinsa Roof Board | Board-Max | S327, G410 | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121 | -165.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | |
| C-17 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a, Sarnatherm-a CG, Sarnatherm, Sarnatherm CG, Sarnatherm-M or Sarnatherm-M 25 PSI | Sarnacol OM-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol OM-BA | S327 Feltback or G410 Feltback | Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c. | -60.0 |
| C-18 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation | Sarnacol OM-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| C-19 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| C-20 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -120.0 |
| C-21 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |

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

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|----------|------------------------------------|---|---------------------------------|---|---------------------------------|---|---|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| C-22 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Sarnacol OM-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roofboard H or Sarnatherm Roof Board-R | 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-23 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a, Sarnatherm-a CG, Sarnatherm, Sarnatherm CG, Sarnatherm-M or Sarnatherm-M 25 PSI | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol 2163 or Sarnacol AD-BA | S327 Feltback or G410 Feltback | Sarnacol AD-FMA, 12-inch o.c. or OM-FMA, 12-inch o.c. | -60.0 |
| C-24 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| C-25 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| C-26 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-27 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm, Sarnatherm CG, Sarnatherm-a, Sarnatherm-a CG or Sarnatherm-M | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch Invinsa Roof Board or min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Sarnatherm Roof Board-R | Sarnacol 2163 or 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-28 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) Additional layers base insulation | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| C-29 | Min. 2,500 psi structural concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch DensDeck or DensDeck Prime | Board-Max or CRA | G410 Feltback, S327 Feltback or 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 16 FOR VAPOR BARRIER OPTIONS

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|----------|------------------------------------|--|----------------------|---|----------------------|---|---|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| C-30 | Min. 2,500 psi structural concrete | (Optional) DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck or DensDeck Prime | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| C-31 | Min. 2,500 psi structural concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-32 | Min. 2,500 psi structural concrete | (Optional) DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| C-33 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| C-34 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-35 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| C-36 | Min. 2,500 psi structural concrete | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.5-inch Sarnatherm Roof Board A-III, Sarnatherm Roofboard H or Invinsa Roof Board | Board-Max | 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 |

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 16 FOR VAPOR BARRIER OPTIONS

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|----------|------------------------------------|---|---|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| C-37 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | 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-38 | Min. 2,500 psi structural concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA, Sarnacol OM-BA, Board-Max or CRA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-39 | Min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-40 | Min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch STYROFOAM Brand DECKMATE Plus or DECKMATE Plus FA | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in Vapor Retarder Adhesive CA | None | 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, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED ROOF COVER**

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|---|------------------------------------|--|--|--|-------------------------|--|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| TRUFAST IW PVC PLATE INDUCTION WELDED SYSTEMS: | | | | | | | |
| C-41 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 60 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -45.0 |
| C-42 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 48 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| C-43 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 36 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -82.5 |
| C-44 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| C-45 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| C-46 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| C-47 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick, preliminarily attached | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 36 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -150.0 |
| C-48 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 4.0 ft ² (8 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| C-49 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 3.2 ft ² (10 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -67.5 |
| C-50 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 2.7 ft ² (12 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -82.5 |
| C-51 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 2.0 ft ² (16 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |

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

| System No. | Deck (Note 1) | Insulation Layer (Note 13) | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|---|------------------------------------|--|--|--|-------------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Spacing (inch) | Fastener Spacing (inch) | | |
| C-52 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 1.8 ft ² (18 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -120.0 |
| C-53 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 1.3 ft ² (24 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -172.5 |
| C-54 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch thick | Trufast #14 HD Fasteners or Trufast Fluted Concrete Nails with Trufast IW PVC Plates | 1 per 1.0 ft ² (32 parts per 4x8 ft board) | | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -217.5 |
| SARNADISC RHINO BOND SYSTEMS: | | | | | | | |
| C-55 | Min. 2,500 psi structural concrete | One or more layers, any combination | Sarnafastener #14 or Sikaplan Fastener #14 with Sarnadisc RhinoBond plates | 36 | 24 (staggered) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -45.0* |
| C-56 | Min. 2,500 psi structural concrete | One or more layers, any combination | Sarnafastener #14 or Sikaplan Fastener #14 with Sarnadisc RhinoBond plates | 24 | 24 (staggered) | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -60.0 |
| ISOWELD INDUCTION WELDING SYSTEMS: | | | | | | | |
| C-57 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 60 | 12 | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -45.0 |
| C-58 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 36 | 24 (staggered) | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -52.5 |
| C-59 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 24 | 18 (staggered) | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -82.5 |
| C-60 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 1 per 3.2 ft ² (10 parts per 4x8 ft board) | | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -75.0 |
| C-61 | Min. 2,500 psi structural concrete | One or more layers, any combination, min. 1.5-inch, prelim. attach | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® PVC Plates (FI-P-6.8-PVC) | 60 | 6 | S327 induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool | -90.0 |

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

| System No. | Deck (Note 1) | Primer | Base Ply | | Roof Cover (Note 15) | | MDP (psf) |
|------------|------------------------------------|--------------------------------|-------------------------------------|--|---|---|-----------|
| | | | Type | Attach | Type | Attach | |
| C-62 | Min. 2,500 psi structural concrete | Vapor Retarder Primer SB or VC | Vapor Retarder SA 106 | Self-adhering | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -67.5 |
| C-63 | 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-64 | Min. 2,500 psi structural concrete | ASTM D41 | Ply Sheet HA 87 or Ply Sheet HA 118 | 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-65 | 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-66 | Min. 2,500 psi structural concrete | None | Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA, continuous ribbons, max. 6" o.c. | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| C-67 | Min. 2,500 psi structural concrete | None | Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA, continuous ribbons, max. 6" o.c. | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -180.0 |
| C-68 | Min. 2,500 psi structural concrete | None | Ply Sheet HA 87 or Ply Sheet HA 118 | Vapor Retarder Adhesive CA, continuous ribbons, max. 6" o.c. | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 4-inch o.c. | -180.0 |
| C-69 | Min. 2,500 psi structural concrete | None | None | N/A | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -495.0 |
| C-70 | 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Insulation Layer | | Coverboard | | Roof Cover (Note 15) | | MDP (psf) |
|--|------------------------------------|--|--|----------------------|---|----------------------|---|---|-----------|
| | | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| CELSCORE (FL2037): | | | | | | | | | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | | |
| LWC-1 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| LWC-2 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| LWC-3 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or min. 2.0 pcf Insulfoam EPS | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -215.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | |
| LWC-4 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| LWC-5 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck or DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-6 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-7 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| LWC-8 | Min. 2,500 psi structural concrete | Min. 200 psi Celcore Cellular Concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| ELASTIZELL (FL4994): | | | | | | | | | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | | |

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Insulation Layer | | Coverboard | | Roof Cover (Note 15) | | MDP (psf) |
|--|------------------------------------|--|--|----------------------|--|----------------------|---|------------------|-----------|
| | | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| LWC-9 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) additional layers of base insulation | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| LWC-10 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| LWC-11 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -202.5 |
| LWC-12 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| LWC-13 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| LWC-14 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or min. 2.0 pcf Insulfoam EPS | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -215.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | |
| LWC-15 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm-a | 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-16 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |

TABLE 4A: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Insulation Layer | | Coverboard | | Roof Cover (Note 15) | | MDP (psf) |
|------------|------------------------------------|---|--|----------------------|---|----------------------|---|---|-----------|
| | | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| LWC-17 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| LWC-18 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| LWC-19 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| LWC-20 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck or DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-21 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-22 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| LWC-23 | Min. 2,500 psi structural concrete | Min. 200 psi Elastizell Lightweight Insulating Concrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |

MEARLCRETE (FL13492):
S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS:

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Insulation Layer | | Coverboard | | Roof Cover (Note 15) | | MDP (psf) |
|--|---|--------------------------------------|--|----------------------|---|----------------------|---|--|-----------|
| | | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| LWC-24 | Min. 22 ga., Type BV, Grade 50 steel at max. 6 ft spans | Min. 370 psi, min. 2-inch Mearlcrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 or Sarnacol 2170 VC | -60.0 |
| LWC-25 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | Min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| LWC-26 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -127.5 |
| LWC-27 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or min. 2.0 pcf Insulfoam EPS | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -215.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | | |
| LWC-28 | Min. 22 ga., Type BV, Grade 50 steel at max. 6 ft spans | Min. 370 psi, min. 2-inch Mearlcrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121, Sarnacol 2170 or Sarnacol 2170 VC | -60.0 |
| LWC-29 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| LWC-30 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck or DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-31 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| LWC-32 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |

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

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Insulation Layer | | Coverboard | | Roof Cover (Note 15) | | MDP (psf) |
|------------|------------------------------------|--------------------------------|--|----------------------|-------------------------------|----------------------|---|------------------|-----------|
| | | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| LWC-33 | Min. 2,500 psi structural concrete | Min. 200 psi Mearlcrete | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Roof Cover (Note 15) | MDP (psf) |
|--|--|---|---------------------------------------|---|---|--|---------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | |
| CELCORE (FL2037): | | | | | | | | | | | |
| LWC-34 | 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. Celcore PVA Curing Compound is applied. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| CONCRECEL (FL5584 & FL10500): | | | | | | | | | | | |
| LWC-35 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| ELASTIZELL (FL4994): | | | | | | | | | | | |
| LWC-36 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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 4B: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Roof Cover (Note 15) | MDP (psf) |
|------------------------------|--|---|---------------------------------------|---|---|--|---------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | |
| LWC-37 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| MEARLCRETE (FL13492): | | | | | | | | | | | |
| LWC-38 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch Mearlcrete | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-39 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|--------------------------|---|--|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| CELCORE (FL2037): | | | | | | | | | | | | | | |
| LWC-40 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-41 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-42 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|--|--|--|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-43 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| CONCRECEL (FL5584 & FL10500): | | | | | | | | | | | | | | |
| LWC-44 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-45 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|-----------------------------|--|---|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-47 | Min. 22 ga. steel at max 5 ft spans or min. 2,500 psi structural concrete | Concrete Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| ELASTIZELL (FL4994): | | | | | | | | | | | | | | |
| LWC-48 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-49 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-50 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|--|---|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-51 | Min. 22 ga. type B steel at max. 6 ft spans or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-52 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0* |
| LWC-53 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-54 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------------------------|--|---|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-55 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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* |
| MEARLCRETE (FL13492): | | | | | | | | | | | | | | |
| LWC-56 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, Min. 2.5-inch thick Mearlcrete | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-57 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, Min. 2.5-inch thick Mearlcrete | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-58 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
|------------|---|--|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-59 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Hot asphalt | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-60 | Min. 22 ga. type B steel at max. 6 ft spans or min. 2,500 psi structural concrete | Min. 200 psi, Min. 2.5-inch thick Mearlcrete | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0* |
| LWC-61 | Min. 22 ga. type B steel at max. 6 ft spans or min. 2,500 psi structural concrete | Min. 200 psi, Min. 2.5-inch thick Mearlcrete | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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-62 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) | | | | | | | | | | | | | | |
|--|---|--|---------------------------------------|---|---|--|---------------------------------|-------------------------------|---|--------------------------------|--------------------------------------|------|--|-----------|
| SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER | | | | | | | | | | | | | | |
| REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE | | | | | | | | | | | | | | |
| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Anchor Sheet | | | Base Insulation | | Top Insulation | | Primer | Roof Cover (Note 15) | | | MDP (psf) |
| | | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| LWC-63 | 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 Base Sheet NB 120 | OMG 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA or Sarnacol 2163 | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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 OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) | | | | | | | | | | |
|--|--|--|---|---|---|--|---|--|-----------|--|
| SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER | | | | | | | | | | |
| REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE | | | | | | | | | | |
| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Sheet | | | Roof Cover (Note 15) | | | MDP (psf) | |
| | | | Base | Fasteners (Note 11) | Spacing | Base Ply | Ply | Cap Ply | | |
| CELCORE (FL2037): | | | | | | | | | | |
| LWC-64 | Min. 22 ga., type B steel at max. 6 ft spans or min. 2,500 psi structural concrete | Min. 350 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound is applied. | Base Sheet NB 48, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -60.0 | |
| LWC-65 | Min. 22 ga., type B or BV, Grade 33 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 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch-applied | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -60.0 | |
| LWC-66 | Min. 22 ga., type B or BV, Grade 33 steel at max. 6 ft spans or min. 2,500 psi structural concrete | Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied. | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch-applied | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -67.5 | |

TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Sheet | | | Roof Cover (Note 15) | | | MDP (psf) |
|--|--|---|---|---|---|--|---|--|-----------|
| | | | Base | Fasteners (Note 11) | Spacing | Base Ply | Ply | Cap Ply | |
| LWC-67 | Min. 22 ga., Type B, Grade 33 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, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -75.0 |
| LWC-68 | Min. 22 ga., type B, Grade 33 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 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch-applied | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -75.0 |
| CONCRECEL (FL5584 & FL10500): | | | | | | | | | |
| LWC-69 | Min. 22 ga., Type BV, Grade 80 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. After setting to support foot traffic, Concrecel Curing Compound is applied. | Base Sheet NB 48 or Base Sheet NB 120 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -52.5 |
| LWC-70 | Min. 22 ga. Type BV, Grade 80 steel at max 5 ft spans or structural concrete | Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete. After setting to support foot traffic, Concrecel Curing Compound is applied. | Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -82.5 |
| LWC-71 | Min. 22 ga., Type BV, Grade 80 steel at max 5 ft spans or structural concrete | Concrecel Bonding Agent on deck; Min. 300 psi, min 2¼-inch thick Concrecel Concrete. After setting to support foot traffic, Concrecel Curing Compound is applied. | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch-applied | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -82.5 |
| ELASTIZELL (FL4994): | | | | | | | | | |

TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Sheet | | | Roof Cover (Note 15) | | | MDP (psf) |
|------------------------------|--|---|---|---|---|--|---|--|-----------|
| | | | Base | Fasteners (Note 11) | Spacing | Base Ply | Ply | Cap Ply | |
| LWC-72 | 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, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-73 | 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 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -30.0 |
| LWC-74 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 48, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0 |
| LWC-75 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete. | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0 |
| MEARLCRETE (FL13492): | | | | | | | | | |
| LWC-76 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min. 2.5-inch thick Mearlcrete | Base Sheet NB 48, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0 |
| LWC-77 | Min. 22 ga. type B steel at max. 6 ft spans or or min. 2,500 psi structural concrete | Min. 200 psi, min. 2.5-inch thick Mearlcrete | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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 OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED BASE PLY, BONDED ROOF COVER
 REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | Base Sheet | | | Roof Cover (Note 15) | | | MDP (psf) |
|------------|---|--|---|---|---|--|---|--|-----------|
| | | | Base | Fasteners (Note 11) | Spacing | Base Ply | Ply | Cap Ply | |
| LWC-78 | 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, Base Sheet NB 120 or Ply Sheet HA 118 | OMG 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -52.5 |
| LWC-79 | 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 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -52.5 |

TABLE 4E: LIGHTWEIGHT CONCRETE OVER STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-1: THERMAL BARRIER TO DECK, TEMP ROOF TO THERMAL BARRIER, LWC TO TEMP ROOF, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

| System No. | Deck (Note 1) | Thermal Barrier | | | Primer | Temp Roof | Lightweight Concrete (Note 14) | Base Sheet | | | Roof Cover (Note 15) | | | MDP (psf) |
|--|--|------------------------------|-----------------------------------|---------------------------|----------|--|---|------------------|---|---|--|---|--|-----------|
| | | Type | Fasten (Note 11) | Attach | | | | Base | Fasten (Note 11) | Spacing | Base Ply | Ply | Cap Ply | |
| CONCRECEL (FL5584 & FL10500): | | | | | | | | | | | | | | |
| LWC-80 | Min. 22 ga., Type B, Grade 33 steel; 6 ft span | Min. 0.5-inch DensDeck Prime | Sarnafastener #14 with Sarnaplate | 1 per 1.6 ft ² | ASTM D41 | Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | Min. 350 psi, min 2¼-inch thick Concrecel Concrete. | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -67.5 |
| LWC-81 | Min. 22 ga., Type B, Grade 33 steel; 6 ft span | Min. 0.5-inch DensDeck Prime | Sarnafastener #14 with Sarnaplate | 1 per 1.0 ft ² | ASTM D41 | Ply Sheet TA 87 or Vapor Retarder TA 138, torch applied. | Min. 350 psi, min 2¼-inch thick Concrecel Concrete. | Base Sheet NB 60 | OMG 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 TA 87 or Vapor Retarder TA 138, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -82.5 |

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | | Roof Cover (Note 15) | | MDP (psf) |
|--|--|---|-----------------------------|---|--|-----------|
| | | Type | Treatment | Type | Attach | |
| PRE-EXISTENT CELLULAR LWC: | | | | | | |
| LWC-82 | Min. 22 ga., Type B, Grade 50 steel at max. 6 ft spans | Min. 250 psi, min. 2-inch thick pre-existent cellular lightweight concrete | None | 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 | -52.5 |
| CELCORE (FL2037): | | | | | | |
| LWC-83 | 18-22 ga. Type B vented steel deck at max. 6 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -60.0 |
| LWC-84 | 18-22 ga. Type B vented steel deck at max. 6 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2170 | -60.0 |
| LWC-85 | 18-22 ga. Type B vented steel deck at max. 5 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -75.0 |
| LWC-86 | 18-22 ga. Type B vented steel deck at max. 5 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2170 | -75.0 |
| LWC-87 | Min. 22 ga., Type BV, Grade 40 steel at max. 6 ft spans | Celcore S-1 Deck Preparation Slurry, approximately 1/16-inch thick slurry, followed by min. 310 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121, Sarnacol 2170 or Sarnacol 2170 VC | -82.5 |
| LWC-88 | 18-22 ga. Type B vented steel deck at max. 4 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -90.0 |
| LWC-89 | 18-22 ga. Type B vented steel deck at max. 4 ft spans | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2170 | -90.0 |
| LWC-90 | Min. 2,500 psi structural concrete | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -112.5 |
| LWC-91 | Min. 2,500 psi structural concrete | Min. 300 psi, min. 2-inch Celcore Cellular Concrete | Celcore PVA Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2170 | -135.0 |
| CONCRECEL (FL5584 & FL10500): | | | | | | |
| LWC-92 | Min. 22 ga. Type B vented steel deck at max. 5 ft spans. Deck primed with Concrecel Bonding Agent at 600 ft ² /gal. | Min. 300 psi, min. 2-inch Concrecel Concrete Optional min. 1-inch EPS Holey Board. | Concrecel Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -97.5 |
| LWC-93 | Min. 22 ga. Type B vented steel deck at max. 6 ft spans. | Min. 300 psi, min. 2-inch Concrecel Concrete No EPS Holey Board. | Concrecel Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -105.0 |
| LWC-94 | Min. 22 ga. Type B vented steel deck at max. 6 ft spans. | Min. 300 psi, min. 2-inch Concrecel Concrete Optional min. 2-inch EPS Holey Board. | Concrecel Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -112.5 |

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

REFER TO NOTE 17 FOR VAPOR BARRIER (DRY-IN ROOF) OPTIONS FOR USE BETWEEN STRUCTURAL CONCRETE DECK AND LIGHTWEIGHT CONCRETE

| System No. | Deck (Note 1) | Lightweight Concrete (Note 14) | | Roof Cover (Note 15) | | MDP (psf) |
|------------------------------|---|---|--|---|--|-----------|
| | | Type | Treatment | Type | Attach | |
| LWC-95 | Min. 2,500 psi structural concrete | Min. 250 psi, min. 2-inch Concrecel Concrete | Concrecel Curing Compound | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 | -112.5 |
| ELASTIZELL (FL4994): | | | | | | |
| LWC-96 | 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-97 | 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-98 | 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 |
| LWC-99 | 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-100 | 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-101 | Min. 2,500 psi structural concrete | Min. 200 psi, min. 2-inch Elastizell LWIC. Optional min. 2-inch, min. 1.0 pcf EPS holey board is allowable. | None | G410 Feltback, Sikaplan Adhered Feltback or S327 Feltback | Sarnacol 2121 at 2.25 gal/sq. | -270.0 |
| MEARLCRETE (FL13492): | | | | | | |
| LWC-102 | 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 (Notes 1 & 12) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|------------------------|--|----------------------|--|----------------------|---|---|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | |
| CWF-1 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA | (Optional) Additional layers base insulation, flat or tapered | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -45.0* |
| CWF-2 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -45.0* |
| CWF-3 | Existing Tectum | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA | Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch DensDeck | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -45.0* |
| CWF-4 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -52.5 |
| CWF-5 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -52.5 |
| CWF-6 | Existing Tectum | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch DensDeck | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 | -52.5 |
| CWF-7 | New or existing Tectum | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -75.0 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | |
| CWF-8 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | 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-9 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | 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-10 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -45.0* |
| CWF-11 | Existing Tectum | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol OM-BA | Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch DensDeck | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -45.0* |
| CWF-12 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -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 (Notes 1 & 12) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) | |
|------------|------------------------|--|----------------------|----------------------|--|----------------------|---|--|-------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | | |
| CWF-13 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -52.5 |
| CWF-14 | Existing Tectum | One or more layers min. 1.5-inch Sarnatherm-a | | Board-Max or CRA | (Optional) Additional layers base insulation, flat or tapered or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -52.5 |
| CWF-15 | Existing Tectum | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | | Board-Max or CRA | Min. 0.5-inch Structodek High Density Fiberboard or min. 0.25-inch DensDeck | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -52.5 |
| CWF-16 | New or existing Tectum | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2121, Sarnacol 2170 VC | -75.0 |

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - 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 15) | | | MDP (psf) |
|------------|-----------------|---------------------------------------|---|--|--|---|-------------------------------|---|--------------------------------|--|---|--|-----------|
| | | Type | Fasten (Note 11) | Attach | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | | Base Ply | Ply | Cap Ply | |
| CWF-17 | Existing Tectum | Base Sheet NB 48 or Base Sheet NB 120 | OMG OlyLok Fasteners; Min. 1.8-inch long (for reroof); min. 1.8-inch embedment (for recover) (Field W/D ≥ 99 lbf) | 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | None | Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt or in Vapor Retarder Adhesive CA or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 in hot asphalt | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -45.0* |
| CWF-18 | Existing Tectum | Base Sheet NB 48 or Base Sheet NB 120 | OMG OlyLok Fasteners; Min. 1.8-inch long (for reroof); min. 1.8-inch embedment (for recover) (Field W/D ≥ 99 lbf) | 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, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-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: EXISTING GYPSUM DECKS - REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

| Sys. No. | Deck (Note 1) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) |
|--|--|--|---|-------------------------------|---|---|--|-----------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | |
| G-1. | Existing poured gypsum or gypsum plank | (Optional) Min. 1-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121 | -257.5 |
| G-2. | Existing poured gypsum or gypsum plank | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121 | -257.5 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | |
| G-3. | Existing poured gypsum or gypsum plank | (Optional) Min. 1-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163, Sarnacol AD-BA or Sarnacol OM-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121 | -257.5 |
| G-4. | Existing poured gypsum or gypsum plank | (Optional) Min. 1-inch Sarnatherm, Sarnatherm-a, Sarnatherm-a CG, Sarnatherm-R, Sarnatherm-M or DuPont Styrofoam Brand Roofmate or Highload 60 | Board-Max | Min. 0.25-inch DensDeck Prime | Board-Max | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170, Sarnacol 2170 VC or Sarnacol 2121 | -257.5 |

**TABLE 6B: 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 | Ply | Cap Ply | |
| G-5. | Existing poured gypsum or gypsum plank | Base Sheet NB48 | Twin Loc-Nail (Field W/D ≥ 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 or Ply Sheet HA 118 in hot asphalt or Ply Sheet TA 87, torch applied. | (Optional) Ply Sheet HA 87 or Ply Sheet HA 118 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

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

| System No. | Substrate (Notes 1 & 12) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) ^A |
|--|--|--|---------------------------------|--|---------------------------------|---|---|------------------------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| S327, G410 OR SIKAPLAN ADHERED (BAREBACK) APPLICATIONS: | | | | | | | | |
| R-1 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| R-2 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -120.0 |
| R-3 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -120.0 |
| R-4 | Existing fully-adhered asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen | Min. 1.5-inch Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) Additional layers base insulation | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -97.5 |
| R-5 | Existing fully-adhered asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen | (Optional) Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| R-6 | Existing fully-adhered asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen | Min. 1.5-inch Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) additional layers of base insulation | Sarnacol 2163 or Sarnacol AD-BA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| R-7 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) Additional layers base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170 VC | -97.5 |
| R-8 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| R-9 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | (Optional) One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck Prime | Board-Max or CRA | G410, S327 or Sikaplan Adhered | Sarnacol 2170, Sarnacol 2170 VC, Sarnacol 2121, Sikaplan SSMA | -127.5 |
| G410 FELTBACK, S327 FELTBACK OR SIKAPLAN ADHERED FELTBACK APPLICATIONS: | | | | | | | | |
| R-10 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm-a | Sarnacol OM-BA | (Optional) Additional layers base insulation | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |

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

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

| System No. | Substrate (Notes 1 & 12) | Base Insulation Layer | | Top Insulation Layer | | Roof Cover (Note 15) | | MDP (psf) ^A |
|------------|--|---|---------------------------------|---|---------------------------------|---|---|------------------------|
| | | Type | Attach (Notes 6,7,8) | Type | Attach (Notes 6,7,8) | Type | Attach | |
| R-11 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck or DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| R-12 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| R-13 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol OM-BA | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Sarnacol OM-BA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -120.0 |
| R-14 | Existing fully-adhered asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen | (Optional) Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | Min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |
| R-15 | Existing fully-adhered asphaltic BUR, mineral surface cap sheet, smooth- or granule-surface SBS or smooth-surface APP modified bitumen | Min. 1.5-inch Sarnatherm or Sarnatherm-a | Sarnacol 2163 or Sarnacol AD-BA | (Optional) Min. 0.25-inch DensDeck Prime | Sarnacol 2163 or Sarnacol AD-BA | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| R-16 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm-a | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -97.5 |
| R-17 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | (Optional) Min. 0.25-inch DensDeck Prime | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2121 | -112.5 |
| R-18 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M | Board-Max or CRA | (Optional) additional layers of base insulation | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |
| R-19 | Existing fully-adhered asphaltic BUR or mineral surface cap sheet | One or more layers min. 1.5-inch Sarnatherm, Sarnatherm-a, Sarnatherm-R or Sarnatherm-M or DuPont Styrofoam Roofmate or Highload 60 or Insulfoam IX | Board-Max or CRA | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Board-Max or CRA | S327 Feltback, G410 Feltback, Sikaplan Adhered Feltback | Sarnacol 2170 VC | -127.5 |

TABLE 7B: STEEL - RECOVER

SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED 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 (Note 15B) | MDP (psf) |
|---|---|---|---|------------------|-----------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Space (inch) | Fastener Space (inch) | | |
| TRUFAST IW PVC PLATE INDUCTION WELDED SYSTEMS: | | | | | | | |
| R-20 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 60 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -45.0 |
| R-21 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 48-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 48 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -60.0 |
| R-22 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 72-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 72 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -75.0 |
| R-23 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 36-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 36 | 12 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -82.5 |
| R-24 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 60 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -90.0 |
| R-25 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 48-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 48 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -112.5 |
| R-26 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.060-in.), 50 ksi steel purlins spaced max. 36-inch o.c. | One or more layers, any combination, min. 1.5-inch thick, prelin attach | Trufast #12 Purlin Fasteners with Trufast IW PVC Plates fastened through to purlins | 36 | 6 | S327 or Sikaplan Fastened induction welded with Trufast Induction Welding Tool and Magnets in accordance with manufacturer's instructions. | -150.0 |
| SARNADISC RHINO BOND SYSTEMS: | | | | | | | |
| R-27 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 72 | 18 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -30.0 |

TABLE 7B: STEEL - RECOVER
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED 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 (Note 15B) | MDP (psf) |
|---|---|---|---|------------------|-----------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Space (inch) | Fastener Space (inch) | | |
| R-28 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 60 | 18 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -37.5 |
| R-29 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 72 | 12 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -45.0 |
| R-30 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 60 | 12 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -52.5 |
| R-31 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 72-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 72 | 6 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -90.0 |
| R-32 | Existing standing seam or lap seam metal roof covers having min. 12 gauge, 36 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, preliminarily fastened | OMG Purlin Fasteners with Sarnadisc RhinoBond plates fastened through to purlins | 60 | 6 | S327, ¹⁰ S327, Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -105.0 |
| ISOWELD INDUCTION WELDING SYSTEMS: | | | | | | | |
| R-33 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, preliminarily fastened | Dekfast DF-#12-PC-SQ with SFS <i>isoweld</i> [®] PVC Plates (FI-P-6.8-PVC) fastened through to purlins | 60 | 12 | S327, ¹⁰ S327, Sikaplan Fastened induction welded SFS <i>isoweld</i> [®] PVC Plates with SFS <i>isoweld</i> [®] 3000 tool. | -45.0 |
| R-34 | Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c. | One or more layers, any combination, preliminarily fastened | Dekfast DF-#12-PC-SQ with SFS <i>isoweld</i> [®] PVC Plates (FI-P-6.8-PVC) fastened through to purlins | 60 | 6 | S327, ¹⁰ S327, Sikaplan Fastened induction welded SFS <i>isoweld</i> [®] PVC Plates with SFS <i>isoweld</i> [®] 3000 tool. | -90.0 |

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

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

| System No. | Substrate (Notes 1 & 12) | Primer / Treatment | Roof Cover (Note 15) | MDP (psf)^ |
|------------|--|--------------------|--|------------|
| R-35 | Existing asphaltic granule surface cap sheet | None | G410 Feltback, S327 Feltback or Sikaplan Adhered Feltback in Sarnacol AD-FMA or OM-FMA, 12-inch o.c. | -120.0 |

**TABLE 8A: FIBER COMPOSITE DECKS – NEW CONSTRUCTION
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED ROOF COVER**

| System No. | Deck (Note 1) | Insulation Layer | Attachment | | | Roof Cover (Note 15B) | MDP (psf) |
|--------------------------------------|---|---|---|------------------|-----------------------|---|-----------|
| | | | Fasteners (Note 11) | Row Space (inch) | Fastener Space (inch) | | |
| SARNADISC RHINO BOND SYSTEMS: | | | | | | | |
| FC-1. | RENCo USA Purlin; 2-3/8" wide x 13-3/4" deep x 1/4" thick wall with single 1/4" web at mid-depth, spaced max. 24-inch o.c. RENCo USA Deck; 20-1/2" wide x 1-5/8" deep, attached to RENCo USA Purlins in accordance with RENCo USA, Inc. requirements to meet structural design loads to the satisfaction of the Authority Having Jurisdiction (See Note 1) | Min. 0.5-inch DensDeck, DensDeck Prime, SECUROCK Ultralight Glass-Mat Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board, loose-laid, followed by min. 1-inch Sarnatherm, joints staggered from the gypsum board | Sarnafastener-XP Fasteners or Sikaplan Fastener #15 with Sarnadisc RhinoBond plates; fastened through to engage RENCo USA Purlins | 24 | 16 | Min. 60-mil S327 or Sikaplan Fastened induction welded with Rhino Plate bonding tool, in accordance with manufacturer's instructions. | -75.0 |