



Code Compliance Research Report

CCRR-0240

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DIVISION: 07 00 00 – Thermal and Moisture Protection

Section: 07 50 00 – Membrane Roofing

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REPORT SUBJECT:
Firestone SBS and APP Modified Bitumen Roof Systems

1.0 SCOPE OF EVALUATION

This research report addresses compliance with the following Codes:

- 2015, 2012, 2009, and 2006 International Building Code® (IBC)
- 2015, 2012, 2009, and 2006 International Residential Code® (IRC)

Firestone SBS and APP Modified Bitumen Roof Systems and Materials have been evaluated for the following properties:

- Wind Uplift Resistance
- Fire Classification
- Physical Properties
- Impact Resistance

See Table 1 for applicable Code sections and Standards related to these properties.

2.0 USES

The Firestone SBS and APP Modified Bitumen materials covered in this report are used as roof coverings in mechanically fastened or fully adhered membrane roofing systems.

3.0 DESCRIPTION

Firestone SBS and APP Modified Bitumen products are designed to be used in mechanically fastened or adhered roofing systems as described in this report. The products are provided in rolls of various lengths

and widths, described in Table 2 and comply with the properties in Sections 3.1 through 3.4.

3.1 Wind Uplift Resistance

Roofing assemblies covered under this report are FM or UL listed and have been tested for wind uplift resistance as required by IBC Section 1504.3.1 and IRC Section R301.2.1.

3.2 Fire Classification

Roofing assemblies covered under this report are UL or FM listed for fire classification as required by IBC Section 1505.1 and IRC Section R902.1.

3.3 Physical Properties:

Firestone base, ply and cap sheets covered under this report comply with the requirements for physical properties as required by IBC Sections 1507.10, 1507.11 and 1504.6 and IRC Section R905.11.

3.4 Impact Resistance:

Firestone cap sheets covered under this report comply with requirements for impact as required by IBC Section 1504.7.

4.0 INSTALLATION

4.1 General:

Firestone base, ply and cap sheets must be installed in accordance with the manufacturer's published installation instructions, the applicable Code and this Research Report. The manufacturer's published installation instructions and this Research Report must be followed. The materials must be installed in accordance with IBC Section 1507.10, 1507.11 or IRC Section R905.11 as applicable, except as noted in this report.

Penetrations and terminations of the roof covering must be flashed and made watertight in accordance with the requirements of the membrane manufacturer and applicable code.

Hot roofing asphalt, when specified in the systems as noted in the Appendix of this report shall conform to ASTM D312, Type III or Type IV. Fasteners, adhesives, insulations and other components specifications are described and must be used as noted in the Appendix of this report.



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4.2 Wind Uplift Resistance:

System requirements and wind uplift pressure are listed in the Appendix.

4.3 Fire Classification:

System requirements and fire classifications are listed in the Appendix.

5.0 CONDITIONS OF USE

The Firestone SBS and APP Modified Bitumen materials and systems described in this Research Report comply with, or are a suitable alternative to, what is specified in those Codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

5.2 The roof covering systems must be installed by Firestone Building Products Company, LLC approved applicators.

5.3 Roofs must have a minimum design slope of $\frac{1}{4}$:12 (2 percent slope) and must not be more than the maximum incline indicated in the Appendix of this report.

5.4 The wind uplift resistance listed in the Appendix is for the roof coverings only. The deck and framing to which the roof covering is attached must be designed for components and cladding in accordance with IBC Section 1609 and IRC Section R301.2.1.

5.5 Above-deck thermal insulation may be any polyisocyanurate, polystyrene, fiberboard, perlite and/or gypsum-based insulation board that is documented as meeting IBC Section 1508 and IRC Section R906 and, for foam plastic, IBC Section 2603, when installed with the roof cover.

5.6 Foam plastic insulation and foam plastic cores of manufactured assemblies shall have a flame spread index of not more than 75 and a smoke-developed index of not more than 450 where tested in the maximum thickness intended for use in accordance with ASTM E 84 or UL 723.

5.7 Foam plastic insulation must be separated from the interior of the building by an approved thermal barrier in accordance with IBC Section 2603.4.1.5.

5.8 When application is over existing roofs, documentation of the wind uplift resistance of the composite roof construction must be submitted to the building official for approval.

5.9 For mechanically attached components over existing decks, fasteners must be tested in the existing deck for withdrawal resistance in accordance with ANSI/SPRI FX-1.

5.10 For existing substrates in a bonded recover installation, the existing roof surface must be examined for compatibility and bond performance with the selected adhesive in accordance with ANSI/SPRI IA-1.

5.11 The products, which are manufactured at the locations listed in Table 3, are produced under a quality control program with inspections by Intertek Testing Services NA, Inc. (AA-647).

6.0 SUPPORTING EVIDENCE

6.1 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

6.2 Listing reports in accordance with:

- ASTM E108
- FM 4474
- UL 790
- UL 1897

6.3 Reports of tests in accordance with:

- ASTM D2178
- ASTM D4601
- ASTM D6163
- ASTM D6164
- ASTM D6222
- ASTM D6223
- ASTM D6509
- ASTM G154
- ASTM G155
- CGSB-37-GP-52M
- FM 4470

7.0 IDENTIFICATION

The SBS and APP Modified Bitumen materials described in this Research Report are identified by a marking bearing the Firestone Building Products Company, LLC name, the Intertek Mark, and the Code Compliance Research Report number (CCRR-0240).



8.0 OTHER CODES

This section is not applicable.

9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Architectural Testing.

9.3 Reference to the Intertek website address at <https://whdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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TABLE 1 – CODE SECTIONS

PROPERTY	IBC SECTION	IRC SECTION	STANDARD
Wind Uplift Resistance	1504.3	R301.2.1	FM 4474 or UL 1897
Fire Classification	1505.1	R902.1	ASTM E108 or UL 790
Physical Properties	1504.6	NA	ASTM G154 or ASTM G155
	1507.10	R905.9	ASTM D2178, ASTM D4601
	1507.11	R905.11	ASTM D6163, ASTM D6164, ASTM D6222, ASTM D6223, ASTM D6509
Impact Resistance	1504.7	NA	CGSB 37-GP-52M or “Resistance to Foot Traffic Test” in Section 5.5 of FM 4470

TABLE 2 – BASE, PLY AND CAP SHEET PRODUCTS

PRODUCT	DESCRIPTION
SBS Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a non-woven fiberglass mat.
SBS Premium Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a glass fiber/glass mat laminate.
SBS Glass Torch Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a non-woven fiberglass mat. Burn off film applied to bottom side.
SBS Glass (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane reinforced with a fiberglass mat
SBS Glass FR (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a fiberglass mat.
SBS Glass FR Torch (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
SBS Poly Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Premium Poly Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Smooth	Smooth-surfaced SBS modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Cap (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS FR Cap	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Premium (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane reinforced with non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Premium FR (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
SBS Premium Torch (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane reinforced with non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
SBS Premium FR Torch (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
SBS Poly Torch Base	Smooth-surfaced SBS modified bitumen base sheet reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
SBS Torch (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
SBS FR Torch (and UltraWhite)	Granule-surfaced SBS modified bitumen membrane with the addition of fire retardant materials. Reinforced with a fiberglass mat. Burn off film applied to bottom side.
APP 160	Smooth-surfaced APP modified bitumen membrane a reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
APP 160 Cool	Smooth-surfaced APP modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.
APP 170	Smooth-surfaced APP modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
APP 170 Cool	Smooth-surfaced APP modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns.

APP 180 (and UltraWhite)	Granule-surfaced APP modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous fiberglass yarns. Burn off film applied to bottom side.
APP 180 Cool	Granule-surfaced APP modified bitumen membrane with fiber glass reinforced non-woven polyester mat.
APP 180 FR Cool (and UltraWhite)	Granule-surfaced APP modified bitumen membrane with the addition of fire-retardant materials. Reinforced with a fiber glass non-woven polyester mat.
APP 180 FR (and UltraWhite)	Granule-surfaced APP modified bitumen membrane with the addition of fire-retardant materials. Reinforced with a fiber glass non-woven polyester mat. Burn off film applied to bottom side.
APP Premium FR (and UltraWhite)	Granule-Surface APP modified membrane reinforced with a tri-laminate interwoven mat.
APP 80 Glass Base	Smooth-surfaced APP modified bitumen base sheet with non-woven fiberglass mat. Burn off film applied to bottom side.
APP Premium Base	Smooth-surfaced APP modified bitumen base sheet with non-woven fiberglass mat.
Ply IV (4)	Asphalt impregnated roofing ply with fiberglass mat reinforcement.
Ply VI (6)	Asphalt impregnated roofing ply with fiberglass mat reinforcement.
MB Base	Asphalt impregnated and coated base sheet with fiberglass mat reinforcement.
BASEGARD SA	Fiberglass reinforced self-adhered base sheet for use with both APP and SBS systems.

TABLE 3 – MANUFACTURING LOCATIONS

LOCATION	PRODUCT
Beech Grove, IN	SBS Cap
	SBS Base
	SBS FR Cap
	SBS Premium
	SBS Premium Base
	SBS Smooth
	SBS Premium FR
	SBS Premium Torch
	SBS Premium FR Torch
	SBS Premium Poly Base
	SBS Poly Base
	SBS Poly Torch Base
	SBS Torch
	SBS FR Torch
	SBS Glass
Fort Worth, TX	SBS Glass Torch Base
	SBS Glass FR
	SBS Glass FR Torch
Tuscaloosa, AL	APP 80 Glass Base
	APP 160
	APP 160 Cool
	APP 170
	APP 170 Cool
	APP 180
	APP 180 FR
	APP 180 Cool
	APP 180 FR Cool
	APP Premium Base
	APP Premium FR
	BASEGARD SA
	SBS Base-P
	APP 160-P
	APP 80 Glass Base-P
	Ply IV (4)
	Ply VI (6)
	MB Base

APPENDIX

The following notes apply to the systems in Tables A1A – A7A:

1. Roof decks must be in accordance with IBC or IRC requirements. Wind load resistance of the roof deck must be documented through proper codified Approval documentation.
2. Factored Tested Load Capacity (**FTLC**) is the result of testing for wind load resistance and reflects the ultimate passing pressure (psf) divided by the safety factor of 2.0. Refer to IBC Section 1609 for determination of design wind loads.
3. Design wind uplift pressure on any roof area, including edge and corner zones, must not exceed the allowable wind pressure for the system installed in that particular area.
4. Unless otherwise noted, insulation / base sheet fasteners must be the following with the noted minimum fastener engagement for each deck type. For deck-types not listed, refer to the specific system listings herein:
 - Wood: Firestone Insulation Fastening Plates with Firestone All-Purpose Fasteners or Firestone Heavy-Duty Fasteners; Firestone Pre-Assembled Fastener and Plate (consisting of 0.196-inch thread diameter fastener with 3-inch diameter metal plate); Firestone Pre-Assembled Heavy-Duty Fastener and Plate (consisting of 0.275-inch thread diameter fastener with 3-inch diameter metal plate); Minimum 1-inch plywood penetration or wood plank embedment.
 - Steel: Firestone Insulation Fastening Plates with Firestone All-Purpose Fasteners or Firestone Heavy-Duty Fasteners; Firestone Pre-Assembled Fastener and Plate (consisting of 0.196-inch thread diameter fastener with 3-inch diameter metal plate); Firestone Pre-Assembled Heavy-Duty Fastener and Plate (consisting of 0.275-inch thread diameter fastener with 3-inch diameter metal plate); AP AccuTrac; HD AccuTrac. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
 - Concrete: Firestone Insulation Fastening Plates with Firestone Heavy-Duty Fasteners or Firestone Concrete Drive Fasteners; Firestone Pre-Assembled Heavy-Duty Fastener and Plate (consisting of 0.275-inch thread diameter fastener with 3-inch diameter metal plate); HD AccuTrac. Minimum 1-inch embedment into pilot hole in accordance with published installation instructions.
5. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions:

Hot asphalt:	Full coverage, 20-40 lbs/square.
Firestone Multi-Purpose MB Cold Adhesive:	Full coverage, 1.5 to 2 gal. /square.
Firestone I.S.O. FIX II:	Continuous 0.75 to 1-inch beads, 12-inch o.c.
Firestone I.S.O. Twin Pack:	Continuous 0.5 to 0.75-inch beads, 12-inch o.c.
Firestone I.S.O. Stick:	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
Firestone I.S.O. Spray S:	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
Firestone LiquiGard Membrane Adhesive:	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.

Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.

Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing
6. Unless otherwise noted, all insulations are flat stock or tapered board of the minimum thickness noted. Bonded polyisocyanurate insulation boards must be maximum 4 x 4 ft. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following FTLC limitations. In no case shall these values be used to 'increase' the FTLC listings in the tables; rather if FTLC 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.

Hot asphalt:	FTLC	-130.0 psf	(Min. 0.5-inch thick)
Firestone I.S.O. FIX II:	FTLC	-175.0 psf	(Min. 0.5-inch thick)
Firestone I.S.O. Twin Pack:	FTLC	-175.0 psf	(Min. 0.5-inch thick)
Firestone I.S.O. Stick:	FTLC	-317.5 psf	(Min. 0.5-inch thick)
Firestone I.S.O. Spray S:	FTLC	-247.5 psf	(Min. 0.5-inch thick)

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

Firestone Membrane References for Systems in Tables A1A – A7A			
Reference	Layer	Material	Application
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	MB Base, Ply IV, Ply VI	Hot asphalt at 20-40 lbs/square
	Ply	Ply IV, Ply VI	
BP-CA (Base and Ply sheets, Cold-Applied)	Base	MB Base	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2.0 gal/square
	Ply	Ply VI	
BP-CA2 (Base and Ply sheets, Cold-Applied)	Base	MB Base	Firestone LiquiGard Membrane Adhesive at 1.5 - 2.0 gal/square
	Ply	Ply VI	
SBS-AA (SBS, Asphalt-Applied)	Base	SBS Base, SBS Base-P, SBS Poly Base, SBS Premium Base, SBS Smooth, SBS Premium Poly Base	Hot asphalt at 20-40 lbs/square
	Ply	SBS Base, SBS Base-P, SBS, SBS Premium Base, SBS Smooth, SBS Premium Poly Base	
	Cap	SBS FR Cap, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-CA (SBS, Cold-Applied)	Base	SBS Base, SBS Base-P, SBS, SBS Premium Base, SBS Premium Poly Base	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2 gal/square
	Ply	SBS Base, SBS Base-P, SBS, SBS Premium Base, SBS Premium Poly Base	
	Cap	SBS FR Cap, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-CA2 (SBS, Cold-Applied)	Base	SBS Base, SBS Base-P, SBS, SBS Premium Base, SBS Premium Poly Base	Firestone LiquiGard Membrane Adhesive at 1.5 - 2.0 gal/square
	Ply	SBS Base, SBS Base-P, SBS, SBS Premium Base, SBS Premium Poly Base	
	Cap	SBS FR Cap, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-TA (SBS, Torch-Applied)	Base	SBS Poly Torch Base, SBS Glass Torch Base, SBS Smooth, SBS Premium Poly Base	Torch-Applied
	Ply	SBS Poly Torch Base, SBS Glass Torch Base, SBS Smooth, SBS Premium Poly Base	
	Cap	SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite	
APP-CA (APP, Cold-Applied)	Base	APP 80 Glass Base, APP 80 Glass Base-P, APP 160-P, APP 160 COOL, APP 170 COOL, APP Premium Base	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2 gal/square
	Cap	APP 180 FR COOL, APP 180 FR COOL UltraWhite, APP Premium FR, APP Premium FR UltraWhite	
APP-TA (APP, Torch-Applied)	Base	APP 80 Glass Base, APP 80 Glass Base-P, APP 160, APP 160-P, APP 170, APP Premium Base	Torch-Applied
	Ply	APP 160, APP 160-P, APP 170, APP Premium Base	
	Cap	APP 180 FR, APP 180 FR UltraWhite, APP Premium FR, APP Premium FR UltraWhite	
Basegard SA (SBS, self-adhering)	Base	BASEGARD SA (see specific listings)	Self-Adhering

8. The following cap sheets may be substituted within the systems listed, for a reduced fire rating of: Class C at Unlimited Slope. In no case shall the substitution and the associated limitation be used to 'increase' the FTLC listing in the table; rather if the particular system is less than or equal to the noted cold-cap limitation, then the substitution is permitted.

Firestone Roof Covers Installation Allowances For Alternate Cap Sheet			
Reference	Layer	Material	Application
SBS-AA (SBS, Asphalt-Applied)	Cap	SBS Cap, SBS Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Glass, SBS Glass UltraWhite	Hot asphalt at 20-40 lbs/square
SBS-CA (SBS, Cold-Applied)	Cap	SBS Cap, SBS Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Glass, SBS Glass UltraWhite	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2 gal/square
SBS-CA2 (SBS, Cold-Applied)	Cap	SBS Cap, SBS Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Glass, SBS Glass UltraWhite	Firestone LiquiGard Membrane Adhesive at 1.5 - 2.0 gal/square
SBS-TA (SBS, Torch-Applied)	Cap	SBS Torch, SBS Torch UltraWhite, SBS Smooth, SBS Premium Torch, SBS Premium Torch UltraWhite	Torch-Applied
APP-CA (APP, Cold-Applied)	Cap	APP 160-P, APP 160 COOL, APP 170 COOL, APP 180-P, APP 180 COOL	Firestone Multi-Purpose MB Cold Adhesive at 1.5 - 2 gal/square
APP-TA (APP, Torch-Applied)	Cap	APP 160, APP 160-P, APP 170, APP 180, APP 180-P, APP 180 UltraWhite	Torch-Applied

9. The following cap sheets may be installed over sand-top-surfaced SBS-AA or SBS-TA base or ply membranes within asphalt-applied and torch-applied systems noted herein with the noted FTLC limitations. In no case shall the substitution and the associated limitation be used to 'increase' the FTLC listing in the table; rather if the particular system is less than or equal to the noted cold-cap limitation, then the substitution is permitted.

Deck Type	System Type	Listed Cap Sheet	Alternate Cold-Cap	FTLC (psf)
Wood, Steel, Concrete, LWC, CWF, Gypsum or Recover	A-2, B-1, B-2, C, D or E	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR or SBS Premium FR UltraWhite	-127.5
Concrete, LWC (over concrete), Gypsum or Recover (over concrete)	A-1, A-3 or F	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR or SBS Glass FR UltraWhite	-180.0
Concrete, LWC (over concrete), Gypsum or Recover (over concrete)	A-1, A-3 or F	SBS-AA, SBS-TA or APP-TA	APP-CA: APP 160 COOL, APP 170 COOL, APP 180 COOL, APP 180 FR COOL or APP 180 FR COOL UltraWhite	-225.0

10. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached base sheet, bonded roof cover), whereby the base sheet fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck must be of equal or greater configuration to the steel and concrete deck listings.
11. For Recover Applications using System Type D, the insulation is optional; however, the existing roof system must be suitable for a recover application.
12. "Asphaltic" vapor barrier / temp roof referenced herein refers to 1 or 2 plies Ply IV or Ply VI or 1 ply MB Base, SBS Base, SBS Poly Base or SBS Premium Base applied in a full mopping of hot asphalt.

TABLE A1A: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
COLD-APPLIED BASE PLY; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
W-1	Min. 15/32-inch plywood at max. 24-inch spans.	(Optional) One or more layers, any combination, loose laid	Min. 1-inch RESISTA	See Note 4	1 per 2.67 ft ²	SBS-CA	(Optional) BP-CA, SBS-CA, BP-CA2, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-45.0	Class A ¼"
W-2	Min. 15/32-inch plywood at max. 24-inch spans.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.13 ft ²	SBS-CA	(Optional) BP-CA, SBS-CA, BP-CA2, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-50.0	Class A ¼"
ASPHALT AND/OR TORCH APPLIED BASE:										
W-3	Min. 19/32-inch plywood at max. 24-inch spans attached with 8d common or ring shank nails 6-inch o.c.	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0	Class A ½"
W-4	Min. 23/32-inch plywood at max. 24-inch spans attached with 8d common or ring shank nails 6-inch o.c.	One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck or DensDeck Prime	See Note 4	1 per 3.5 ft ²	SBS-AA	(Optional) SBS-AA	SBS-AA	-45.0	Class A ½"
SELF-ADHERING BASE:										
W-5	Min. 15/32-inch plywood at max. 24-inch spans.	(Optional) One or more layers, any combination, loose laid	Min. 1-inch RESISTA	See Note 4	1 per 2.67 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-40.0	Class A ¼"
W-6	Min. 15/32-inch plywood at max. 24-inch spans.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.13 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-50.0	Class A ¼"
W-7	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA	See Note 4	1 per 1.78 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0	Class A ¼"

TABLE A1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Base	Fasteners	Attach	Base Ply	Cap		
W-8	Min. 19/32-inch plywood at max. 24-inch spans attached with 8d ring shank nails or #8 x 2.5-inch screws 6-inch o.c.	One or more layers, any combination	Prelim. Attached	MB Base	See Note 4	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	Class A ½"

TABLE A1C-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Base	Fasteners	Attach	Base Ply	Cap		
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:								
W-9	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	SBS Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	6-inch o.c. at the 3-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-CA2, SBS-CA2	SBS-CA2, SBS-AA, SBS-TA	-97.5	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:								
W-10	Min. 19/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d common or ring shank nails	MB Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
W-11	Min. 15/32-inch plywood at max. 24-inch spans	MB Base, SBS Base, SBS	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-45.0	Class A ½"
W-12	Min. 15/32-inch plywood at max. 24-inch spans	MB Base	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-45.0	Class A ½"
W-13	Min. 19/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails or #8 x 2-inch wood screws	MB Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	Class A ½"

TABLE A1C-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Base	Fasteners	Attach	Base Ply	Cap		
W-14	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-52.5	Class A 1/2"
W-15	Min. 15/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails	MB Base, SBS Base, SBS	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 12-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-52.5	Class A 1/2"
W-16	Min. 15/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails	MB Base	Simplex MAXX Cap Fastener	9-inch o.c. at the 2-inch side lap and 12-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-52.5	Class A 1/2"
W-17	Min. 15/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with #10 wood screws	MB Base, SBS Base, SBS	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-90.0	Class A 1/2"
W-18	Min. 15/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with #10 wood screws	MB Base	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-90.0	Class A 1/2"
W-19	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	SBS Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	6-inch o.c. at the 3-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA, SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-97.5	Class A 1/2"
W-20	Min. 15/32-inch plywood at max. 24-inch spans attached 4-inch o.c. with #10 wood screws	MB Base, SBS Base, SBS	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA, SBS-TA	-105.0	Class A 1/2"
W-21	Min. 15/32-inch plywood at max. 24-inch spans attached 4-inch o.c. with #10 wood screws	MB Base	Simplex MAXX Cap Fastener	6-inch o.c. at the 2-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	(Optional) One or more APP-TA	APP-TA	-105.0	Class A 1/2"
SELF-ADHERING BASE:								
W-22	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	12 ga. x 1-1/4-inch RS nail through 32 ga. 1-5/8-inch tin cap	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	BASEGARD SA	SBS-AA, SBS-TA	-52.5	Class A 1/2"

TABLE A1C-2: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Base	Fasteners	Attach	Base Ply	Cap		
COLD-APPLIED BASE PLY; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:								
W-23	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	See Note 4	12-inch o.c. in the 3.5-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-CA2, SBS-CA2	SBS-CA2, SBS-AA, SBS-TA	-60.0	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE PLY:								
W-24	Min. 19/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails or #8 x 2-inch wood screws	MB Base	See Note 4	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	Class A ½"
W-25	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	See Note 4	12-inch o.c. in the 3.5-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-60.0	Class A ½"
W-26	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	See Note 4	12-inch o.c. in the 2-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	One or more BP-AA, SBS-AA or SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-75.0	Class A ½"
SELF-ADHERING BASE:								
W-27	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c., attached with 0.113-inch x 2-3/8-inch ring shank nails 6-inch o.c. at all supports.	MB Base	See Note 4	12-inch o.c. in the 2-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	BASEGARD SA	SBS-AA, SBS-TA	-75.0	Class A ½"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:											
S-1	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-30.0	Class A ½"
S-2	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-3	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-4	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-5	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-6	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-7	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	Optional min. 1.5-inch ISO 95+ GL followed by Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-8	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	Optional min. 1.5-inch ISO 95+ GL followed by Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	APP-CA	None	APP-CA	-45.0	Class A ¾"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
S-9	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-10	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-11	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-30.0	Class A ½"
S-12	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-13	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-14	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-15	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Stick	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-16	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-17	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-30.0	Class A ½"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
S-18	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"
S-19	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Min. 0.5-inch RESISTA (tapered)	I.S.O. Twin Pack	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-20	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft²	Min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-21	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch ISO 95+ GL or RESISTA	See Note 4	1 per 4 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-22	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 3.2 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	APP-CA	None	APP-CA	-37.5	Class A ¾"
S-23	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch ISO 95+ GL or RESISTA	See Note 4	1 per 4 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"
S-24	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 3.2 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"
S-25	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-26	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft²	Optional base insulation or Min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	APP-CA	None	APP-CA	-45.0	Class A ¾"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
S-27	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-28	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 1.78 ft ²	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack, I.S.O. Fix II, I.S.O. Stick	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-45.0	Class A ½"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:											
S-29	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2.7 ft ²	ISO 95+ GL (tapered) or min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack, I.S.O. FIX II, I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-30.0	Class A ½"
S-30	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL or RESISTA	See Note 4	1 per 4 ft ²	ISO 95+ GL (tapered) or min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack, I.S.O. FIX II, I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-37.5	Class A ½"
S-31	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL; Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"
S-32	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL or Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"
S-33	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2.7 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
S-34	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or min. 0.5-inch ISO GARD HD	LiquiGard, I.S.O. Twin Pack, I.S.O. FIX II, I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"
S-35	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 1.6 ft ²	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack, I.S.O. FIX II or I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-75.0	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:											
S-36	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
S-37	Min. 22 ga., type B, Grade 33 steel	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.6 ft ²	Optional min. 0.5-inch base insulation; Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, 6-inch o.c.	BP-AA, SBS-AA, SBS-TA	(Optional) One or more SBS-CA2, BP-AA, SBS-AA, SBS-TA	SBS-CA2, SBS-AA, SBS-TA	-67.5	Class A ½"
SELF-ADHERING BASE:											
S-38	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2 ft ²	Min. 1.5-inch ISO 95+ GL; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	BASEGAR D SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"

TABLE A2A-1: STEEL OR 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 (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap		
S-39	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL; Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BASEGAR D SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-40	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL or RESISTA	See Note 4	1 per 2 ft ²	Optional min. 1.5-inch ISO 95+ GL or Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BASEGAR D SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-41	Min. 22 ga., type B, Grade 33 steel	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.6 ft ²	Optional min. 0.5-inch base insulation; Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, 6-inch o.c.	BASEGAR D SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A 1-1/2"
S-42	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1 ft ²	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II, I.S.O. Spray S or I.S.O. Twin Pack, 4-inch o.c.	BASEGAR D SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A 1-1/2"
S-43	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1 ft ²	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II, I.S.O. Spray S or I.S.O. Twin Pack, 4-inch o.c.	BASEGAR D SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-105.0	Class A 1"

TABLE A2A-2: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)												
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER												
System No.	Deck (See Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach		Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:												
S-44	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inchISO 95+ GL (tapered)	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-45	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-46	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inchISO 95+ GL (tapered)	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"
S-47	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inchISO 95+ GL (tapered); Min. 0.50-inch ISOGARD HD	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-48	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.50-inch ISOGARD HD	I.S.O. Stick	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-49	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inchISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-30.0	Class A ½"
S-50	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-CA	None	APP-CA	-37.5	Class A ¾"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:												

TABLE A2A-2: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasten	Attach		Type	Attach	Base	Ply	Cap		
S-51	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A 1/2"
S-52	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.50-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A 1/2"
ASPHALT AND/OR TORCH APPLIED BASE:												
S-53	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1/2"
S-54	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1/2"
SELF-ADHERING BASE:												
S-55	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-56	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.25-inch DensDeck or 0.5-inch SECUROCK Gypsum Fiber Roof Board primed with V-Force SB Primer	See Note 4	1 per 4 ft ²	V-Force	One or more layers Min. 1.5-inch ISO 95+ GL; optional Min. 0.5-inch ISO 95+ GL (tapered); Min. 0.50-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"

TABLE A2A-3: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF)
SYSTEM TYPE B-3: BONDED THERMAL BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Thermal Barrier		Insulation Layers		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
ASPHALT BASE; ASPHALT MEMBRANE:										
S-57	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck Prime	I.S.O. Stick	Min. 0.5-inch ISO 95+ GL or RESISTA; Min. 2-inch ISO 95+ GL	Hot Asphalt	None	Three plies of: SBS-AA, SBS-CA, SBS-CA2, or SBS-TA	SBS-AA, SBS-CA, SBS-CA2, SBS-TA	-52.5	Class A 1/2"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
S-58	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-59	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-60	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-61	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2 ft²	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-62	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	See Note 4	1 per 2 ft²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-63	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	See Note 4	1 per 2 ft ²	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-64	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.7 ft ²	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-65	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.7 ft ²	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-66	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-45.0	Class A ½"
S-67	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	APP-CA	None	APP-CA	-45.0	Class A ¾"
S-68	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.33 ft ²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A ½"
S-69	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.33 ft ²	APP-CA	None	APP-CA	-52.5	Class A ¾"
S-70	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.33 ft ²	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A ½"
S-71	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.33 ft ²	APP-CA	None	APP-CA	-52.5	Class A ¾"
S-72	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.78 ft ²	SBS-CA	None	SBS-CA	-60.0	Class A 1"
S-73	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 2.67 ft ²	SBS-CA	None	SBS-CA	-60.0	Class A 1"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-74	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA or min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.6 ft ²	SBS-CA	None	SBS-CA	-67.5	Class A 1"
S-75	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 1.78 ft ²	SBS-CA	None	SBS-CA	-75.0	Class A 1"
S-76	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.45 ft ²	SBS-CA	None	SBS-CA	-90.0	Class A 1"
S-77	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	SBS-CA	None	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-37.5	Class A 1"
S-78	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1 -inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1.6 ft ²	SBS-CA, APP-CA, APP-TA	None	SBS-CA, APP-CA, APP-TA	-82.5	Class A 1/2"
S-79	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1 -inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	APP-CA, APP-TA	None	APP-CA, APP-TA	-82.5	Class A 3/4"
S-80	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL or ISOGARD HD Composite	(Optional) 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	APP-CA	None	APP-CA, APP-TA	-90.0	Class A 3/4"
S-81	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISO 95+ GL or ISOGARD HD Composite	(Optional) 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2.67 ft ²	APP-CA	None	APP-CA, APP-TA	-45.0	Class A 3/4"
S-82	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISOGARD HD Composite	See Note 4	1 per 2.67 ft ²	APP-CA	None	APP-CA, APP-TA	-52.5	Class A 3/4"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-83	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISOGARD HD Composite (Boards laid perpendicular to flutes)	See Note 4	1 per 4.0 ft ²	APP-CA	None	APP-CA, APP-TA	-52.5	Class A ¾"
S-84	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.5-inch ISO 95+ GL	See Note 4	1 per 1.0 ft ²	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-97.5	Class A ½"
S-85	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.5-inch ISO 95+ GL	See Note 4	1 per 2.13 ft ²	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-52.5	Class A ½"
S-86	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1-inch ISO 95+ GL or RESISTA	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2.13 ft ²	APP-CA, SBS-CA,	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-60.0	Class A ½"
S-87	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch ISO 95+ GL or RESISTA, loose laid	Min. 0.5-inch Structodeck High Density Fiberboard	See Note 4	1 per 2.0 ft ²	SBS-CA, SBS-AA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-30.0	Class A ½"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
S-88	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2.7 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"
S-89	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"
S-90	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.7 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0	Class A ½"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-91	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 1.78 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-60.0	Class A ½"
S-92	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 2.67 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-60.0	Class A ½"
S-93	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA or min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.6 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-67.5	Class A ½"
S-94	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 1.78 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-75.0	Class A ½"
S-95	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1.6 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-82.5	Class A ½"
S-96	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 1.33 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-90.0	Class A ½"
S-97	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-97.5	Class A ½"
S-98	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-112.5	Class A ½"
S-99	Min. 22 ga., Type B, Grade 80 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 1 ft ²	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-135.0	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:										
S-100	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 4	1 per 4 ft ²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-101	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1.33 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A ½"
S-102	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A ½"
S-103	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0	Class A ½"
S-104	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1.33 ft ²	SBS-TA	None	SBS-TA	-97.5	Class A ½"
S-105	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISO 95+ GL	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1.33 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-112.5	Class A ½"
S-106	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1 ft ²	SBS-TA	None	SBS-TA	-127.5	Class A ½"
S-107	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-150.0	Class A ½"
S-108	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISO 95+ GL	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-157.5	Class A ½"
S-109	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISO 95+ GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.33 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-157.5	Class A ½"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-110	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISO 95+ GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1 ft ²	BP-AA or SBS-AA	One or more BP-AA or SBS-AA	SBS-AA	-172.5	Class A ½"
SELF-ADHERING BASE:										
S-111	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 4	1 per 2 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-112	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 4	1 per 2 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1-½"
S-113	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.2-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-114	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-115	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 2.7 ft ²	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-45.0	Class A 1"
S-116	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.2-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1"
S-117	Structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1"
S-118	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA	See Note 4	1 per 2.7 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-119	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.7 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-120	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A 1"
S-121	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA	See Note 4	1 per 2.7 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1"
S-122	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	See Note 4	1 per 2.7 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1"
S-123	Min. 22 ga., Type B, Grade 33 or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-45.0	Class A 1"
S-124	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISO 95+ GL	See Note 4	1 per 2.67 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-45.0	Class A 1"
S-125	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 4	1 per 1.78 ft ²	BASEGARD SA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0	Class A 1"
S-126	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 2.67 ft ²	BASEGARD SA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0	Class A 1"
S-127	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch RESISTA or min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.6 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A 1"
S-128	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-67.5	Class A 1"
S-129	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 1.78 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0	Class A 1"
S-130	Min. 22 ga. Type B, Grade 33 steel	One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	See Note 4	1 per 1.33 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0	Class A 1"

TABLE A2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
S-131	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 1.78 ft ²	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-75.0	Class A 1-½"
S-132	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	See Note 4	1 per 4 ft ²	BASEGARD SA	None	SBS-CA, SBS-CA2, SBS-AA, SBS TA	-37.5	Class A ¼"
S-133	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.5-inch ISO 95+ GL	See Note 4	1 per 1.0 ft ²	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-97.5	Class A ¼"
S-134	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.5-inch ISO 95+ GL	See Note 4	1 per 2.13 ft ²	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-52.5	Class A ¼"
S-135	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1-inch ISO 95+ GL or RESISTA	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 4	1 per 2.13 ft ²	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-60.0	Class A ¼"

TABLE A2C: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Fasteners	Attach	Ply	Cap		
COLD-APPLIED; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
S-136	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Loose-laid	SBS Base, SBS Base-P, SBS Premium	See Note 4, but with Dekfast Hex only	18-inch o.c. at the 3-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) BP-CA or SBS-CA	SBS-CA	-45.0	Class A ½"
S-137	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Loose-laid	MB Base	See Note 4	12-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) BP-CA or SBS-CA	SBS-CA or APP-CA	-45.0	Class A ½"
S-138	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone All Purpose Fastener with MB 2" Barbed Metal Lap Plates	12-inch o.c. within the 4-inch torch side lap	None	SBS-CA or APP-CA	-45.0	Class A ½"
S-139	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	12-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-67.5	Class A ½"
S-140	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ISO 95+	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-112.5	Class A ½"
S-141	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch ISO 95+ GL	Loose-laid	SBS Poly Torch Base	Firestone Heavy-Duty Plus with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only) or APP-CA	-127.5	Class A ½"
COLD-APPLIED; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
S-142	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, SBS Base, SBS PolyBase, SBS Premium Base	See Note 4	18-inch o.c. at the min. 3-inch side lap and 18-inch o.c. at one staggered row in the center of the sheet	(Optional) SBS-CA2	SBS-CA2	-45.0	Class A ½"

TABLE A2C: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Fasteners	Attach	Ply	Cap		
S-143	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Loose-laid	MB Base, SBS Base, SBS PolyBase, SBS Premium Base	See Note 4	12-inch o.c. at the min. 4-inch side lap and 12-inch o.c. at two, equally spaced staggered rows in the center of the sheet	SBS-CA2	SBS-CA	-60.0	Class A 1/2"
ASPHALT AND/OR TORCH APPLIED:										
S-144	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	MB Base	See Note 4	18-inch o.c. at the 3-inch side lap and 36-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1/2"
S-145	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone All Purpose Fastener with MB 2" Barbed Metal Lap Plates	18-inch o.c. within the 4-inch torched side lap.	(Optional) SBS-TA	SBS-TA	-45.0	Class A 1/2"
S-146	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone HD Fasteners with Firestone Coiled Metal Batten Strip	18-inch o.c. through the batten strips at the 4-inch laps	One or more BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-52.5	Class A 1/2"
S-147	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone HD Fasteners with Firestone Batten Strips	12-inch o.c. through the batten strips within the 4-inch wide torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	-67.5	Class A 1/2"
S-148	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	MB Base or Venting Base Sheet	See Note 4	12-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-82.5	Class A 1/2"

TABLE A2C: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Fasteners	Attach	Ply	Cap		
S-149	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Firestone HD Plus Fasteners with Firestone Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 4-inch torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	-157.5	Class A 1/2"
SELF-ADHERING BASE:										
S-150	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Firestone HD Fasteners with Firestone Coiled Metal Batten Strip	18-inch o.c. through the batten strips at the 4-inch laps	BASEGARD SA	SBS-AA or SBS-TA	-52.5	Class A 1/4"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:											
C-1	Concrete	Optional ASTM D41	Min. 1.5-inch RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A 1/2"
C-2	Concrete	Optional ASTM D41	Min. 1.5-inch RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	APP-CA	None	APP-CA	-52.5	Class A 3/4"
C-3	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	(Optional) Additional layers of min. 1-inch base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) followed by min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-60.0	Class A 1/2"
C-4	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	(Optional) Additional layers of min. 1-inch base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) followed by min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Stick; I.S.O. Twin Pack	APP-CA	None	APP-CA	-60.0	Class A 3/4"
C-5	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A 1/2"
C-6	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5	Class A 3/4"
C-7	Concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A 1/2"
C-8	Concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5	Class A 3/4"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-9	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	BP-CA, SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A 1/2"
C-10	Concrete	None	Min. 0.25-inch SECURock Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-144.5	Class A 1/2"
C-11	Concrete	None	Min. 1-inch ISO 95+ GL	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	APP-CA	None	APP-CA	-67.5	Class A 3/4"
C-12	Concrete	None	Min. 1-inch ISO 95+ GL	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A 1/2"
C-13	Concrete	None	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	APP-CA	None	APP-CA	-52.5	Class A 3/4"
C-14	Concrete	None	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A 1/2"
C-15	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	APP-CA	None	APP-CA	-67.5	Class A 3/4"
C-16	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A 1/2"
C-17	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S	APP-CA	None	APP-CA	-37.5	Class A 3/4"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-18	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A 1/2"
C-19	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Stick	Min. 1-inch ISO 95+ GL; Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-317.5	Class A 1/2"
C-20	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 1-inch ISO 95+ GL	I.S.O. Twin Pack	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-105.0	Class A 1/2"
C-21	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-122.5	Class A 1/2"
C-22	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 0.5-inch ISOGARD HD	I.S.O. Twin Pack, I.S.O. Fix II, I.S.O. Stick	APP-CA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-110.0	Class A 1/2"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:											
C-23	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	LiquiGard	Min. 0.25-inch DensDeck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A 1/2"
C-24	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	LiquiGard	(Optional) One or more layers base insulation	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-292.5	Class A 1/2"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-25	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	LiquiGard	Min. 0.5-inch ISOGARD HD	LiquiGard	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-292.5	Class A ½"
C-26	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II; I.S.O. Stick; I.S.O. Twin Pack	None	N/A	SBS-CA2	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0	Class A ½"
C-27	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-277.5	Class A ½"
C-28	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-277.5	Class A ½"
C-29	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:											
C-30	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0	Class A ½"
C-31	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II I.S.O. Stick I.S.O. Twin Pack	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5	Class A ½"
C-32	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0	Class A ½"
C-33	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5	Class A ½"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-34	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-400.0	Class A ½"
C-35	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	APP-TA	(Optional) APP-TA	APP-CA or APP-TA	-462.5	Class A ½"
C-36	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or Tapered RESISTA	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5	Class A ½"
C-37	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL or Tapered RESISTA	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0	Class A ½"
C-38	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5	Class A ½"
C-39	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5	Class A ½"
C-40	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	APP-TA	(Optional) APP-TA	APP-TA	-232.5	Class A ½"
C-41	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0	Class A ½"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-42	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II 6" o.c., I.S.O. Stick 6" o.c., I.S.O. Twin Pack 6" o.c.	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick 6" o.c.	SBS-TA, SBS-CA, SBS-AA	(Optional) One or more SBS-TA, SBS-CA, SBS-CA2, SBS-AA	SBS-TA, SBS-CA, SBS-CA2, SBS-AA	-347.5	Class A ½"
C-43	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA, SBS-CA, SBS-AA	(Optional) One or more SBS-TA, SBS-CA, SBS-CA2, SBS-AA	SBS-TA, SBS-CA, SBS-CA2, SBS-AA	-175.0	Class A ½"
C-44	Concrete	None	Min. 0.5-inch ISO 95+ GL	Hot Asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	SBS-AA, SBS-CA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-AA, SBS-CA, SBS-CA2, SBS-TA, APP-CA, APP-TA	-130.0	Class A ½"
SELF-ADHERING BASE:											
C-45	Concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL	Hot asphalt	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-46	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-112.5	Class A 1"
C-47	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-112.5	Class A 1
C-48	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	(Optional) One or more layers base insulation	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"
C-49	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	(Optional) One or more layers base insulation	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
C-50	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. FIX II	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-51	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. FIX II	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-52	Concrete	None	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-53	Concrete	None	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-54	Concrete	None	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. FIX II	None	N/A	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0	Class A 1"
C-55	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
C-56	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-57	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. Twin Pack	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
C-58	Concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-59	Concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-60	Concrete	Optional ASTM D41	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-61	Concrete	None	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. Twin Pack	None	N/A	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0	Class A 1-1/2"
C-62	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-63	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-240.0	Class A 1"
C-64	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. Stick	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-65	Concrete	None	Min. 1.5-inch RESISTA	I.S.O. Stick	Optional additional layers or base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
C-66	Concrete	None	One or more layers, min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-67	Concrete	None	One or more layers, min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-68	Concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Firestone SA Primer	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) BP-AA, SBS-AA, SBS-TA	SBS-AA or SBS-TA	-400.0	Class A 1-1/2"
C-69	Concrete	None	Min. 1-inch ISO 95+ GL	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"
C-70	Concrete	None	Min. 1-inch ISO 95+ GL	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
C-71	Concrete	None	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-72	Concrete	None	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
C-73	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-74	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISO GARD HD	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-75	Concrete	None	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-76	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Stick	Min. 1-inch ISO 95+ GL; Min. 0.25-inch SECURock Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-285.0	Class A ¼"
C-77	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min. 0.25-inch SECURock Gypsum Fiber Roof Board	I.S.O. Stick 6" o.c.	BASEGARD SA	(Optional) One or more SBS-TA, SBS-CA, SBS-CA2, SBS-AA	SBS-TA, SBS-CA, SBS-CA2, SBS-AA	-347.5	Class A ¼"
C-78	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min. 0.25-inch SECURock Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) One or more SBS-TA, SBS-CA, SBS-CA2, SBS-AA	SBS-TA, SBS-CA, SBS-CA2, SBS-AA	-175.0	Class A ¼"
C-79	Concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 1-inch ISO 95+ GL	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-105.0	Class A ¼"
C-80	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 0.25-inch SECURock Gypsum-Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-122.5	Class A ¼"
C-81	Concrete	None	Min. 0.5-inch ISO 95+ GL	I.S.O. Fix II, I.S.O. Stick, I.S.O. Twin Pack	Min 0.5-inch ISO GARD HD	I.S.O. Twin Pack, I.S.O. Fix II, I.S.O. Stick	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	APP-CA, APP-TA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	-110.0	Class A ¼"

TABLE A3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Attach	Type	Attach	Base	Ply	Cap		
C-82	Concrete	None	Min. 0.5-inch ISO 95+ GL	Hot Asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	BASEGARD SA	(Optional) APP-CA, SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-AA, SBS-CA, SBS-CA2, SBS-TA, APP-CA, APP-TA	-130.0	Class A ¼"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:												
C-83	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5	Class A ¾"
C-84	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A ½"
C-85	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-52.5	Class A ¾"
C-86	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A ½"
C-87	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5	Class A ¾"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
C-88	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A ½"
C-89	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURACK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-37.5	Class A ¾"
C-90	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURACK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"
C-91	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Twin Pack	None	N/A	APP-CA	None	APP-CA	-67.5	Class A ¾"
C-92	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Twin Pack	None	N/A	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A ½"
C-93	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	APP-CA	None	APP-CA	-67.5	Class A ¾"
C-94	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A ½"
C-95	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Stick	APP-CA	None	APP-CA	-67.5	Class A ¾"
C-96	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A ½"
C-97	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURACK Gypsum Fiber Roof Board	I.S.O. Stick	APP-CA	None	APP-CA	-37.5	Class A ¾"
C-98	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURACK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:												
C-99	Conc.	None	MB Base in LiquiGard or SBS-CA2	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0	Class A ½"
C-100	Conc.	None	MB Base in LiquiGard or SBS-CA2	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0	Class A ½"
C-101	Conc.	None	MB Base in LiquiGard or SBS-CA2	Min. 1-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0	Class A ½"
C-102	Conc.	None	MB Base in LiquiGard or SBS-CA2	Min. 1-inch ISO 95+ GL	I.S.O. Stick	Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-240.0	Class A ½"
C-103	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A ½"
C-104	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A ½"
C-105	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Twin Pack	None	N/A	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A ½"
C-106	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A ½"
C-107	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-262.5	Class A ½"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
C-108	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A 1/2"
ASPHALT AND/OR TORCH APPLIED BASE:												
C-109	Conc.	ASTM D41	Two plies BP-AA [Ply IV (M), Ply VI (M), Ply IV, Ply VI]	Min. 1.5-inch ISO 95+ GL with optional Min. 0.5-inch ISO 95+ GL (tapered)	Hot Asphalt	Min. 0.75-inch FM Approved perlite (homogeneous)	Hot Asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-120.0	Class A 1/2"
C-110	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5	Class A 1/2"
C-111	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0	Class A 1/2"
C-112	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5	Class A 1/2"
C-113	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5	Class A 1/2"
C-114	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-232.5	Class A 1/2"
C-115	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0	Class A 1/2"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
C-116	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0	Class A ½"
C-117	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5	Class A ½"
C-118	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5	Class A ½"
C-119	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Stick	APP-TA	(Optional) APP-TA	APP-TA	-232.5	Class A ½"
C-120	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0	Class A ½"
SELF-ADHERING BASE:												
C-121	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Twin Pack	None	N/A	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"
C-122	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Twin Pack	None	N/A	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
C-123	Conc.	ASTM D41	MB Base applied in I.S.O. Twin Pack	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck, DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-124	Conc.	ASTM D41	SBS-TA	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck, DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-125	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
C-126	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
C-127	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISO GARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-128	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.5-inch ISO GARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-129	Conc.	Firestone SA Primer	MB Base SA	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck, DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-130	Conc.	V-Force SB Primer	V-Force	Min. 1.5-inch I.S.O. 95+ GL	I.S.O. Stick	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
C-131	Conc.	V-Force SB Primer	V-Force	Min. 0.5-inch ISO 95+ GL	I.S.O. Stick	Min. 1-inch ISO 95+ GL	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-287.5	Class A 1"
C-132	Conc.	Firestone SA Primer	MB Base SA	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
C-133	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"
C-134	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
C-135	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) APP-TA	APP-TA	-112.5	Class A 1"

TABLE A3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
				Type	Attach	Type	Attach	Base	Ply	Cap		
C-136	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-137	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
C-138	Conc.	Firestone SA Primer	MB Base SA	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
C-139	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
C-140	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-217.5	Class A 1"
C-141	Conc.	ASTM D41	Asphaltic; See Note 14	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"

TABLE A3C: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:							
C-142	Concrete	ASTM D41	APP-CA	None	APP-CA	-127.5	Class A ¾"
C-143	Concrete	ASTM D41	SBS-CA (excluding SBS Smooth)	None	SBS-CA	-180.0	Class A ½"
C-144	Concrete	ASTM D41	SBS-CA	None	APP-CA	-225.0	Class A ½"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:							
C-145	Concrete	None	BP-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-337.5	Class A ½"
C-146	Concrete	None	MB Base in LiquiGard or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-495.0	Class A ½"
SELF-ADHERING BASE:							
C-147	Concrete	ASTM D41	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-202.5	Class A ½"
C-148	Concrete	ASTM D41	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-232.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:											
LWC-1	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. FIX II	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5	Class A ½"
LWC-2	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"
LWC-3	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-82.5	Class A ½"
LWC-4	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-52.5	Class A ½"
LWC-5	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-52.5	Class A ½"
LWC-6	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"
LWC-7	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5	Class A ½"
LWC-8	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-9	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5	Class A ½"
LWC-10	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA, SBS-CA or APP-CA	None	APP-CA	-37.5	Class A ½"
LWC-11	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	-37.5	Class A ½"
LWC-12	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECURock Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5	Class A ½"
LWC-13	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECURock Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-106.0	Class A ½"
LWC-14	Concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	BP-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A ½"
LWC-15	Concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	APP-CA	None	APP-CA	-67.5	Class A ½"
LWC-16	Concrete	Min. 160 psi Elastizell or Min. 200 psi Celcore	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	SBS-CA	None	SBS-CA	-82.5	Class A ½"
LWC-17	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-18	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-82.5	Class A ½"
LWC-19	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-52.5	Class A ½"
LWC-20	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-52.5	Class A ½"
LWC-21	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"
LWC-22	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5	Class A ½"
LWC-23	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-67.5	Class A ½"
LWC-24	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-67.5	Class A ½"
LWC-25	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA, SBS-CA or APP-CA	None	APP-CA	-37.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-26	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-CA	(Optional) SBS-CA	SBS-CA	-37.5	Class A ½"
LWC-27	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-76.5	Class A ½"
LWC-28	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-106.0	Class A ½"
LWC-29	Concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-CA2, SBS-AA, SBS-TA	SBS-CA, SBS-CA2, SBS-AA or SBS-TA	-144.5	Class A ½"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:											
LWC-30	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5	Class A ½"
LWC-31	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5	Class A ½"
LWC-32	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-33	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-217.5	Class A ½"
LWC-34	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5	Class A ½"
LWC-35	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5	Class A ½"
LWC-36	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5	Class A ½"
LWC-37	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5	Class A ½"
LWC-38	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-CA2, SBS-CA2	(Optional) BP-CA2, SBS-CA2	SBS-CA2	-187.5	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:											
LWC-39	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. FIX II	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-40	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	None	SBS-TA	-127.5	Class A ½"
LWC-41	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5	Class A ½"
LWC-42	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	APP-TA	None	APP-TA	-217.5	Class A ½"
LWC-43	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5	Class A ½"
LWC-44	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-106.0	Class A ½"
LWC-45	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	None	SBS-TA	-127.5	Class A ½"
LWC-46	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5	Class A ½"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-47	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-TA	None	APP-TA	-187.5	Class A ½"
LWC-48	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-76.5	Class A ½"
LWC-49	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-106.0	Class A ½"
LWC-50	Concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	None	N/A	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-144.5	Class A ½"
SELF-ADHERING BASE:											
LWC-51	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-177.5	Class A 1"
LWC-52	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. FIX II	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5	Class A 1"
LWC-53	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. FIX II	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0	Class A 1"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-54	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-TA	APP-TA	-112.5	Class A 1"
LWC-55	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-210.0	Class A 1"
LWC-56	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-217.5	Class A 1"
LWC-57	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-58	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-TA	APP-TA	-187.5	Class A 1"
LWC-59	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-202.5	Class A 1"
LWC-60	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-61	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-217.5	Class A 1"
LWC-62	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-TA	APP-TA	-217.5	Class A 1"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-63	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-64	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-217.5	Class A 1"
LWC-65	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-TA	APP-TA	-217.5	Class A 1"
LWC-66	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) APP-TA	APP-TA	-45.0	Class A 1"
LWC-67	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-82.5	Class A 1-1/2"
LWC-68	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1-1/2"
LWC-69	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECURock Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5	Class A 1"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-70	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0	Class A 1"
LWC-71	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-82.5	Class A 1"
LWC-72	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-172.5	Class A 1"
LWC-73	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-177.5	Class A 1"
LWC-74	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BASEGARD SA	(Optional) APP-TA	APP-TA	-112.5	Class A 1"
LWC-75	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL or min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-187.5	Class A 1"
LWC-76	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISO 95+ GL or min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-77	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch RESISTA	I.S.O. Stick	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick	BASEGARD SA	(Optional) APP-TA	APP-TA	-187.5	Class A 1"
LWC-78	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	BASEGARD SA	(Optional) APP-TA	APP-TA	-187.5	Class A 1"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-79	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-187.5	Class A 1"
LWC-80	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-81	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BASEGARD SA	(Optional) APP-TA	APP-TA	-187.5	Class A 1"
LWC-82	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-187.5	Class A 1"
LWC-83	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
LWC-84	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) APP-TA	APP-TA	-45.0	Class A 1"
LWC-85	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-TA	SBS-TA	-82.5	Class A 1-1/2"
LWC-86	Concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISO 95+ GL or RESISTA	I.S.O. Stick	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1-1/2"

TABLE A4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-87	Concrete	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 40 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-76.5	Class A 1"
LWC-88	Concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-106.0	Class A 1"
LWC-89	Concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-144.5	Class A 1"

TABLE A4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Insulation			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap		
LWC-90	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, or APP 160	Min. 1.8-inch Firestone Two Piece Impact Nail or Firestone LWC Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	(Optional) Additional layers base insulation	I.S.O. Stick	APP-CA	None	APP-CA	-45.0	Class A 1/2"

TABLE A4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Insulation			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap		
LWC-91	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, or APP 160	Min. 1.8-inch Firestone Two Piece Impact Nail or Firestone LWC Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	Optional Additional layers base insulation; Min. 0.5-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	APP-CA	None	APP-CA	-45.0	Class A ½"
LWC-92	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or ES FM-90	9-inch o.c. at the 3-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0	Class A ½"
LWC-93	Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or ES FM-90	12-inch o.c. at the 3-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-45.0	Class A ½"

TABLE A4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
MECHANICALLY ATTACHED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:									
LWC-94	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0	Class A ½"
LWC-95	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0	Class A ½"
LWC-96	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0	Class A ½"
LWC-97	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Existing, min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA or APP-CA	SBS-CA or APP-CA	-45.0	Class A ½"
MECHANICALLY ATTACHED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:									
LWC-98	Min. 22 ga. Steel at max 6 ft spans or structural concrete	Min. 460 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	SBS Poly Torch Base	ES FM-290V	7-inch o.c. in the 4-inch wide laps	(Optional) SBS-CA2	SBS-CA2	-45.0	Class A ½"
LWC-99	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 342 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 71 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, SBS Base, SBS PolyBase, SBS Premium Base	Firestone 1.7" LWC Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-CA2	SBS-CA2	-60.0	Class A ½"

TABLE A4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
MECHANICALLY ATTACHED BASE; ASPHALT AND/OR TORCH APPLIED MEMBRANE:									
LWC-100	Min. 22 ga., type B vented steel at max 6 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	SBS Base	Firestone 1.7" LWC Base Ply Fasteners	9-inch o.c. at the 3-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BASEGARD SA	SBS-TA, SBS-AA	-45.0	Class A 1-½"
LWC-101	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or ES FM-90	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
LWC-102	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or ES FM-90	12-inch o.c. at the 2-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
LWC-103	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 9-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-CA	SBS-AA or SBS-CA	-45.0	Class A ½"
LWC-104	Min. 22 ga. Steel at max 6 ft spans or structural concrete	Min. 460 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	SBS Poly Torch Base	ES FM-290V	7-inch o.c. in the 4-inch wide laps	(Optional) SBS-TA	SBS-TA	-45.0	Class A ½"
LWC-105	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
LWC-106	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A ½"
LWC-107	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A ½"
LWC-108	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Existing, min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0	Class A ½"
LWC-109	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners, ES FM-90 or OMG CR Base Felt Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	Class A ½"
LWC-110	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners, ES-90	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA or SBS-AA	SBS-AA	-52.5	Class A ½"
LWC-111	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 88 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0	Class A ½"

TABLE A4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
LWC-112	Min. 22 ga., type B steel at max. 6 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	SBS PolyTorch Base	Min. 1.8-inch Firestone Two Piece Impact Nails through ES Products Straight Line Batten Bars	Fasteners 6-inch o.c. through batten bars within 3-inch wide, torched side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0	Class A ½"
LWC-113	Min. 22 ga., type B vented steel at max 6 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Elastizell cellular lightweight insulating concrete	Firestone Venting Base, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0	Class A ½"
LWC-114	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, ES FM-90 or ES FM-290	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0	Class A ½"
LWC-115	Min. 22 ga., type B steel at max 5 ft spans or structural concrete	Existing, min. 350 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 106 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, SBS Base, SBS Base P, SBS Premium Base, SBS Smooth, SBS PolyBase	Firestone LWC Base Ply Fasteners (1.7-inch)	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	One or more SBS-TA	SBS-TA	-60.0	Class A ½"
LWC-116	Min. 22 ga., type B steel at max 6 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, ES FM-90 or ES FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0	Class A ½"
LWC-117	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 342 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 71 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Premium Base	Firestone 1.7" LWC Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA	SBS-AA, SBS-TA	-60.0	Class A ½"

TABLE A4C-1: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
LWC-118	Min. 22 ga., type B vented steel at max 6 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Concrecel cellular lightweight insulating concrete	Firestone Venting Base, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	-67.5	Class A ½"
LWC-119	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 95 lbf when tested per TAS 105 or ANSI/SPRI FX-1.</i>	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone LWC Base Ply Fasteners or ES FM-90	7.5-inch o.c. at the 3-inch side lap and 7.5-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-75.0	Class A ½"
LWC-120	Min. 22 ga. Steel at max 5 ft spans or structural concrete	Concrecel Bonding Agent is applied to the deck at a rate of 600 ft ² /gal. Min. 300 psi, min. 2.25-inch thick Concrecel cellular lightweight insulating concrete followed by Concrecel Curing Compound at a rate of 600 ft ² /gal	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base, APP 160, APP 160-P	OMG CR Base Ply Fasteners	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A ½"

TABLE A4C-2: LIGHTWEIGHT CONCRETE DECKS (OVER THERMAL BARRIER / VAPOR BARRIER) – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

Sys. No.	Deck Assembly (See Note 1)					Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
	Deck	Thermal Barrier		Temp Roof	Lightweight Concrete	Type	Fasteners	Attach	Ply	Cap		
		Type	Attach									
LWC-121	Min. 22 ga., type B steel at max 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 4 at 1 per 1.6 ft ²	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	SBS PolyTorch Base	Min. 1.8-inch Firestone Two Piece Impact Nails through ES Products Straight Line Batten Bars	Fasteners 6-inch o.c. through batten bars within 3-inch wide, torched side laps.	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA (ASTM D6164 only)	-60.0	Class A ½"
LWC-122	Min. 22 ga., type B steel at max 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 4 at 1 per 1.6 ft ²	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, SBS Torch Base	Firestone LWC Base Ply Fasteners, ES FM-90 or ES FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	-60.0	Class A ½"
LWC-123	Min. 22 ga., type B steel at max 6 ft spans	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fasteners per Note 4 at 1 per 1.6 ft ²	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, APP 160, APP 160-P, APP 80 Glass Base, APP 80 Glass Base-P, APP Premium Base	Firestone LWC Base Ply Fasteners, ES FM-90 or ES FM-290	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) APP-TA	APP-TA	-60.0	Class A ½"

TABLE A5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer		Coverboard		Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
CWF-1	Tectum	Min. 0.5-inch ISOGARD HD or min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) Min. 0.5-inch ISOGARD HD or min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1"

TABLE A5B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Anchor Sheet (See Note A below)			Insulation			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap		
CWF-2	Tectum	MB Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
CWF-3	Tectum	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	12-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 0.5-inch ISOGARD HD or min. 1-inch ISO 95+ GL	(Optional) Min. 0.5-inch ISOGARD HD or min. 1-inch ISO 95+ GL	I.S.O. FIX II, I.S.O. Stick or I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1"

Note A: Anchor sheet may be covered with optional temporary roof consisting of one or two plies BP-AA or SBS-AA, or one Base Ply of BP-AA or SBS-AA followed by one Cap Ply of SBS-AA, SBS-TA or APP-TA.

TABLE A5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			FTLC (psf)	Fire Rating Max. Incline (in.)
			Type	Fasteners	Attach	Base	Ply	Cap		
CWF-4	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD or min. 1-inch ISO 95+ GL	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	1 per 2.1 ft ²	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1"

TABLE A5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Attach	Type	Fasteners	Attach	Ply	Cap		
CWF-5	Tectum	One or more layers, any combination	Prelim. Attached	MB Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A5E: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasteners	Attach	Ply	Cap		
CWF-6	Tectum	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	-45.0	Class A ½"
CWF-7	Tectum	MB Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"
CWF-8	Tectum	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA	SBS-AA	-45.0	Class A ½"

TABLE A5E: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max. Incline (in.)
		Type	Fasteners	Attach	Ply	Cap		
CWF-9	Tectum	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Firestone Two Piece Impact Nail	9-inch o.c. in the 3-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A6A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
G-1	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack	BP-CA	(Optional) BP-CA, SBS-CA	SBS-CA or APP-CA	-67.5	Class A ½"
G-2	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5	Class A ½"
G-3	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick; I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack	SBS-CA	None	SBS-CA	-82.5	Class A ½"
ASPHALT AND/OR TORCH APPLIED BASE:										
G-4	Existing poured gypsum or gypsum plank primed with WeatherTite Universal Primer	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	-45.0	Class A ½"
G-5	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-157.5	Class A ½"
G-6	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick	SBS-TA	None	SBS-TA	-127.5	Class A ½"
G-7	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA or APP-TA	SBS-AA or APP-TA	-135.0	Class A ½"
SELF-ADHERING BASE:										
G-8	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5	Class A 1"
G-9	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
G-10	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-112.5	Class A 1"

TABLE A6A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
G-11	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Stick	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-135.0	Class A 1"

TABLE A6B: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap		
G-12	Existing poured gypsum or gypsum plank	MB Base, SBS Base, SBS Base-P, SBS Premium Base, SBS PolyBase, SBS Smooth (See Note A below)	Firestone Two Piece Impact Nail (W/D $\geq$ 105 lbf)	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO 95+ GL	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A 1/2"
G-13	Existing poured gypsum or gypsum plank	MB Base	Firestone Two Piece Impact Nail (W/D $\geq$ 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) Min. 1.5-inch ISO 95+ GL	Min. 0.25-inch DensDeck or 0.25-inch SECUROCK Gypsum Fiber Roof Board,	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5	Class A 1/2"

Note A: Anchor sheet may be covered with optional temporary roof consisting of one or two plies BP-AA or SBS-AA, or one Base Ply of BP-AA or SBS-AA followed by one Cap Ply of SBS-AA, SBS-TA or APP-TA.

TABLE A6C: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap		
G-14	Existing poured gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (W/D $\geq$ 180 lbf)	1 per 2 ft ²	Min. 0.25-inch DensDeck or 0.25-inch SECURROCK Gypsum Fiber Roof Board	Hot asphalt	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A6D: GYPSUM DECKS – REROOF (TEAR-OFF)

SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Fasteners	Attach	Ply	Cap		
G-15	Existing poured gypsum or gypsum plank	One or more layers, any combination	Prelim. Attached	MB Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (W/D $\geq$ 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A ½"

TABLE A6E: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Fasteners	Attach	Ply	Cap		
G-16	Existing poured gypsum or gypsum plank	MB Base	Firestone Polymer Fastener and Polymer Fastener Insulation Plates (W/D $\geq$ 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A $\frac{1}{2}$ "
G-17	Existing poured gypsum or gypsum plank	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nail (W/D $\geq$ 105 lbf)	9-inch o.c. in the 2-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-CA	SBS-AA or SBS-CA	-45.0	Class A $\frac{1}{2}$ "
G-18	Existing poured gypsum or gypsum plank	MB Base, Venting Base Sheet, SBS Base, SBS Base-P, SBS PolyBase, SBS Smooth, SBS Premium Base	Firestone Two Piece Impact Nail (W/D $\geq$ 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0	Class A $\frac{1}{2}$ "

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
COLD-APPLIED BASE; FIRESTONE MULTI-PURPOSE MB COLD ADHESIVE:										
R-1	Existing asphalt BUR	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack or I.S.O. Stick Adhesive	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack or I.S.O. Stick Adhesive	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A ½"
R-2	Existing asphalt BUR	(Optional) One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack or I.S.O. Stick Adhesive	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack or I.S.O. Stick Adhesive	APP-CA	None	APP-CA	-67.5	Class A ½"
R-3	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack, I.S.O. Stick	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick	SBS-CA	None	SBS-CA	-82.5	Class A ½"
R-4	Existing asphalt BUR	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inchISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5	Class A ½"
R-5	Existing asphalt BUR	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A ½"
R-6	Existing asphalt BUR	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-52.5	Class A ½"
R-7	Existing asphalt BUR	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inchRESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A ½"
R-8	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-67.5	Class A ½"
R-9	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A ½"
R-10	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	APP-CA	None	APP-CA	-37.5	Class A ½"
R-11	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A ½"

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
R-12	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5	Class A 1/2"
R-13	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-82.5	Class A 1/2"
R-14	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-52.5	Class A 1/2"
R-15	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-52.5	Class A 1/2"
R-16	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-67.5	Class A 1/2"
R-17	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-67.5	Class A 1/2"
R-18	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	APP-CA	None	APP-CA	-37.5	Class A 1/2"
R-19	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-CA or SBS-CA	(Optional) BP-CA, SBS-CA	SBS-CA	-37.5	Class A 1/2"
COLD-APPLIED BASE; FIRESTONE LIQUIGARD MEMBRANE ADHESIVE:										
R-20	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A 1/2"
R-21	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-255.0	Class A 1/2"

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
R-22	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. FIX II	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-195.0	Class A 1/2"
R-23	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. FIX II	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-195.0	Class A 1/2"
R-24	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S; I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S; I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-202.5	Class A 1/2"
R-25	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD or Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S; I.S.O. Twin Pack	BP-CA2 or SBS-CA2	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-205.5	Class A 1/2"
ASPHALT AND/OR TORCH APPLIED BASE:										
R-26	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5	Class A 1/2"
R-27	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0	Class A 1/2"
R-28	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5	Class A 1/2"
R-29	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5	Class A 1/2"
R-30	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-232.5	Class A 1/2"

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
R-31	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S, 6-inch o.c.	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-240.0	Class A 1/2"
R-32	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) APP-TA	APP-TA	-97.5	Class A 1/2"
R-33	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered)	I.S.O. Spray S	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-120.0	Class A 1/2"
R-34	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	-127.5	Class A 1/2"
R-35	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. FIX II; I.S.O. Spray S; I.S.O. Twin Pack	BP-AA or SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-157.5	Class A 1/2"
R-36	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. FIX II	BP-AA, SBS-AA or APP-TA	(Optional) APP-TA	APP-TA	-195.0	Class A 1/2"
R-37	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S; I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURROCK Gypsum Fiber Roof Board	I.S.O. Spray S; I.S.O. Twin Pack	BP-AA, SBS-AA or APP-TA	(Optional) APP-TA	APP-TA	-202.5	Class A 1/2"
SELF-ADHERING BASE:										
R-38	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0	Class A 1"
R-39	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-40	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. FIX II	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-195.0	Class A 1"

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
R-41	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-42	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-195.0	Class A 1"
R-43	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. FIX II	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. FIX II	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
R-44	Existing asphalt BUR	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) One or more layers base insulation	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
R-45	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-202.5	Class A 1"
R-46	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-47	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
R-48	Existing asphalt BUR	(Optional) One or more layers, min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-157.5	Class A 1"
R-49	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-50	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"

TABLE A7A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover			FTLC (psf)	Fire Rating Max Incline (in.)
		Type	Attach	Type	Attach	Base	Ply	Cap		
R-51	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.25-inch DensDeck Prime or SECURock Gypsum Fiber Roof Board	I.S.O. Twin Pack	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	Class A 1"
R-52	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-202.5	Class A 1"
R-53	Existing asphalt BUR	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-210.0	Class A 1"
R-54	Existing asphalt BUR	Min. 1-inch ISO 95+ GL	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch ISO 95+ GL (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-247.5	Class A 1"
R-55	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-56	Existing asphalt BUR	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-57	Existing granule surface modified bitumen	Min. 1-inch RESISTA	I.S.O. Spray S	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
R-58	Existing asphalt BUR	Min. 1-inch RESISTA	I.S.O. Spray S, 6-inch o.c.	(Optional) Additional layers of base insulation and/or min. 0.5-inch RESISTA (tapered)	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-202.5	Class A 1"
R-59	Existing granule surface modified bitumen	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"
R-60	Existing asphalt BUR	Min. 1-inch ISO 95+ GL or RESISTA	I.S.O. Spray S, 6-inch o.c.	Additional layers of base insulation or min. 0.5-inch ISO 95+ GL (tapered) or RESISTA (tapered); Min. 0.5-inch ISOGARD HD	I.S.O. Spray S, 6-inch o.c.	BASEGARD SA	(Optional) SBS-AA	SBS-AA	-187.5	Class A 1"