



Product Evaluation

RC195 | 0616

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-195

Effective Date: June 1, 2016

Re-evaluation Date: June 2020

Product Name: Firestone Modified Bitumen Roofing Systems

Manufacturer: Firestone Building Products Company, LLC
250 W. 96th Street
Indianapolis, IN 46260
(800) 443-4272 x 53806

Base/Ply Sheets:

- **Ply IV** is a fiberglass reinforced, asphalt-impregnated ply sheet.
- **Ply VI** is a fiberglass reinforced, asphalt-impregnated ply sheet.
- **MB Base** is a fiberglass reinforced, asphalt-coated base sheet.
- **MB Base SA** is a fiberglass reinforced, SBS modified bitumen base sheet with a self-adhering bottom and sanded top surface.
- **BASEGARD SA** is a fiberglass reinforced, SBS modified bitumen base sheet with a self-adhering bottom and sanded top surface.

Smooth-Surfaced SBS Membranes:

- **SBS Base** is a fiberglass reinforced, SBS modified bitumen membrane with a sanded bottom and sanded top surface.
- **SBS Base P** is a SBS modified bitumen membrane reinforced with a non-woven glass fiber mat.
- **SBS Premium Base** is a fiberglass reinforced, SBS modified bitumen membrane with a sanded bottom and sanded top surface.
- **SBS Glass Torch Base** is a fiberglass reinforced, SBS modified bitumen membrane with a film bottom and sanded top surface.
- **SBS Glass Torch Base 1.5** is a fiberglass reinforced, SBS modified bitumen membrane with a film bottom and sanded top surface.

Smooth-Surfaced SBS Membranes (Continued):

- **SBS PolyBase** is a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and sanded top surface.
- **SBS Premium PolyBase** is a SBS modified bitumen membrane reinforced with a non-woven polyester mat enhanced with continuous glass fiber yarn.
- **SBS Smooth** is a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and sanded top surface.
- **SBS Poly Torch Base** is a polyester reinforced, SBS modified bitumen membrane with a film bottom and sanded top surface.

Smooth-Surfaced APP Membranes:

- **APP 160** is a polyester reinforced, APP modified bitumen membrane with a film bottom and mineral-release-agent top surface.
- **APP 170** is a polyester reinforced, APP modified bitumen membrane with a film bottom and mineral-release-agent top surface.
- **APP 160 COOL** is a smooth surfaced APP modified bitumen membrane, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven polyester mat.
- **APP 170 COOL** is a smooth surfaced APP modified bitumen membrane, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven polyester mat.
- **APP Premium Base** is a smooth surfaced APP modified bitumen base sheet, consists of select asphalt modified with atactic polypropylene and reinforced with non-woven glass fiber mat.
- **APP 80 Glass Base COOL** is a smooth surfaced APP modified bitumen base sheet, consists of select asphalt modified with atactic polypropylene and reinforced with a strong non-woven glass fiber mat.
- **APP 80 Glass Base** is a smooth surfaced APP modified bitumen base sheet, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven glass fiber mat.
- **APP 80 Glass Base P** is a smooth surfaced APP modified bitumen base sheet, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven glass fiber mat.
- **APP 160 P** is a smooth surfaced APP modified bitumen membrane, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven polyester mat.

Granule-Surfaced SBS Membranes:

- **SBS Glass / SBS Glass UltraWhite** are a fiberglass reinforced, SBS modified bitumen membrane with a sanded bottom and granule top surface.
- **SBS Glass FR / SBS Glass FR UltraWhite** are a fiberglass reinforced, SBS modified membrane with a sanded bottom and granule top surface.
- **SBS Glass FR Torch / SBS Glass FR Torch UltraWhite** are a fiberglass reinforced, SBS modified bitumen membrane with a film bottom and granule top surface.
- **SBS Cap / SBS Cap UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and granule top surface.
- **SBS FR Cap / SBS FR Cap UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and granule top surface.
- **SBS Premium / SBS Premium UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and granule top surface.
- **SBS Premium FR / SBS Premium FR UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and granule top surface.
- **SBS Torch / SBS Torch UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a film bottom and granule top surface.

- **SBS FR Torch / SBS FR Torch UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a film bottom and granule top surface.
- **SBS Premium Torch / SBS Premium Torch UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a film bottom and granule top surface.
- **SBS Premium FR Torch / SBS Premium FR Torch UltraWhite** are a polyester reinforced, SBS modified bitumen membrane with a film bottom and granule top surface.

Granule-Surfaced APP Membranes:

- **APP 180 / APP 180 UltraWhite** are a polyester reinforced, APP modified bitumen membrane with a sanded bottom and granule top surface.
- **APP 180 P** is a polyester reinforced, APP modified bitumen membrane with a sanded bottom and granule top surface.
- **APP 180 FR / APP 180 FR UltraWhite** are a polyester reinforced, APP modified bitumen membrane with a film bottom and granule top surface.
- **APP Premium FR / APP Premium FR UltraWhite** are a polyester/fiberglass composite reinforced, APP modified bitumen membrane with a sanded bottom and granule top surface.
- **APP 180 COOL** is a granule surfaced APP modified bitumen membrane, consists of select asphalt, modified with atactic polypropylene and reinforced with a non-woven polyester mat.
- **APP 180 FR COOL / APP 180 FR COOL UltraWhite** is a granule surfaced APP modified bitumen membrane, consist of select asphalt, modified with atactic polypropylene and strengthened with a fiber glass reinforced polyester non-woven mat.

Note: UltraWhite cap sheet membranes may be used in place of their non-Ultra White counterparts.

Insulations & Coverboards:

- **ISO 95+ GL** is a polyisocyanurate roof insulation.
- **RESISTA** is a polyisocyanurate roof insulation.
- **DensDeck; DensDeck Prime** are a fiberglass faced, water-resistant gypsum core coverboard manufactured by Georgia-Pacific Gypsum, LLC.
- **SECUROCK Gypsum-Fiber Roof Board** is a water-resistant gypsum core coverboard manufactured by US Gypsum Corporation.
- **Structodek High Density Fiberboard** is a high density roofing board manufactured by Blue Ridge Fiberboard, Inc.
- **ISOGARD HD** is a polyisocyanurate roof insulation.
- **ISOGARD HD Composite** is a high density composite board.

Vapor Barriers:

- **V-Force Vapor Barrier Membrane** is a vapor barrier comprised of SBS modified bitumen adhesive, factory-laminated to a tri-laminate woven, high-density polyethylene top surface.

Adhesives:

- **Multi-Purpose MB Cold Adhesive** is an asphalt matrix adhesive blended with fibers and selected performance additives.
- **LiquiGard Membrane Adhesive** is a two-part polyurethane membrane adhesive.
- **I.S.O. Twin Pack Adhesive** is a two-component, low-rise polyurethane adhesive used for anchoring acceptable roof insulation to acceptable substrates and to adhere multiple layers of insulation.

- **I.S.O. Stick Adhesive** is a two-component, low-rise polyurethane insulation adhesive applied in beads for adhesive attachment of Firestone approved roof insulations to acceptable substrates.
- **I.S.O. FIX II Adhesive** is a single component, moisture cured, polyurethane adhesive designed to attach acceptable roof insulations to acceptable substrates.
- **I.S.O. Spray S Adhesive** is a two-part polyurethane adhesive, mixed and dispensed from a heated high-pressure spray or bead-extruding system to anchor acceptable roof insulation to acceptable substrates.

Primers:

- **V-Force SB Primer** is a solvent based primer to prepare porous substrates to receive V-Force Vapor Barrier Membrane.

Fasteners & Plates:

- **All-Purpose Fastener** is a roofing fastener for wood and steel decks.
- **Heavy Duty Fastener** is a roofing fastener for wood, steel and concrete decks.
- **Insulation Fastening Plate** is a 3-inch diameter, 0.017 to 0.023-inch thick galvalume stress plate for base sheet and insulation attachment.
- **Coiled Metal Batten Strip** is a 1-inch wide, 0.045 to 0.051-inch thick galvalume metal batten strip with pre-punched holes at 3-inch o.c. for base membrane attachment.
- **MAXX Cap Fastener** is a polymer injection-molded, perforated, 3-inch diameter stress plate fitted with integral ring-shank nails, available in hot-dipped galvanized, electro-galvanized and stainless steel for base sheet attachment to wood decks; by Simplex Nails.

Limitations and Installation:

Roof Framing: The maximum allowable spacing of the roof framing must be as specified in this evaluation report.

Roof Deck: For new applications, the roof deck must be secured to the roof framing to resist the required uplift loads.

Positive Drainage of Roof Deck: Roof decks, in which this product is to be installed upon, must be provided with positive drainage. A minimum roof slope after construction of $\frac{1}{4}$ inch per foot is recommended.

Design Wind Pressures: The design wind uplift pressures must be specified in the assemblies listed in this evaluation report.

Installation over an Existing Roof Covering (Roof Recover):

Acceptable Applications: The modified bitumen roofing system may be installed over an existing built-up roof covering or an existing modified bitumen roof covering based on the requirements set forth in this product evaluation report.

Inspection of Roof Covering Recover Installation: Inspection of the roof covering recover installation must be by a Texas Department of Insurance appointed engineer. The Texas Department of Insurance appointed engineer must determine if the roof framing can support the combined weight of the existing roof covering and the roof covering recover.

Roof Covering Replacement versus Roof Covering Recover: All existing roof coverings must be completely removed and a new roof covering installed if any of the following conditions occur:

- The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for the additional roof covering.
- The existing roof has two or more applications of any type of roof covering.

Positive Drainage: The roof covering recover application must not be required to meet the minimum roof slope of 1/4" per foot if positive drainage is provided.

Roof Framing: The maximum allowable spacing of the roof framing must be as specified in this evaluation report.

Roof Deck: The existing roof deck must be as specified in each assembly listed in this evaluation report. The underside of the roof deck must be examined by the Texas Department of Insurance appointed engineer for corrosion or deterioration. If corrosion exists, then it must be treated with a rust inhibitor. A fastener withdrawal resistance test must be conducted in the corroded or deteriorated area to determine if the withdrawal resistance of the fastener complies with the minimum fastener requirements for the roof covering recover application. If the tested fastener fails to comply, then the deteriorated roof deck must be replaced.

Fastener Withdrawal Resistance: The fastener withdrawal resistance must be conducted in accordance with ANSI/SPRI FX-1-2006 and this evaluation report.

Fasteners used for the installation of the roof covering recover to the existing roof deck must be as specified in the Installation Instructions section of this evaluation report. For the withdrawal test, the fasteners must be installed in the existing roof deck as required for the roof covering recover installation. A Texas Department of Insurance appointed engineer must review the data to verify the integrity of the existing roof deck and to compare results of the withdrawal tests with the minimum fastener requirements for the roof covering recover application.

The Texas Department of Insurance appointed engineer must document all test results, including the locations on the roof surface where the tests are performed. A minimum of 10 withdrawal resistance tests are required for a roof area up to 50,000 square feet (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). Five additional tests are required for each additional 5,000 square feet of roof area or portion thereof (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). The tests must be located evenly spread across the surface of the roof. At least one withdrawal test must be performed on each roof level if the roof consists of multiple levels.

The withdrawal resistance of each tested fastener must comply with the minimum fastener requirements for the roof covering recover application. If a tested fastener fails to comply, then the Texas Department of Insurance appointed engineer must examine that area for deterioration of the roof deck by removing the existing roof covering in that area. If that area of the roof deck has deteriorated, then the deteriorated roof deck must be replaced.

Existing Roof Covering Preparation: The existing roof covering must be prepared to receive the roof covering recover as specified in the Firestone installation instructions.

The existing roof covering surface must be dry and free of dirt and debris.

If the existing roof covering is gravel surfaced, then the loose gravel must be completely removed. The surface of the existing roof covering must be relatively smooth.

If the existing roof covering has blisters, buckles, ridges, folds, or other deformations, then they must be removed and the surface patched to provide a smooth surface.

If the existing roof covering has loose fasteners, then the existing membrane must be cut open, the loose fasteners removed, and the surface patched to provide a smooth surface.

Roof Covering Recover Installation: Installation of the roof covering recover must be specified in the Installation Instructions section of this evaluation report.

General installation Requirements:

All International Residential Code (IRC) and the International Building Code (IBC) requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Membrane Attachment: The membrane must be mechanically attached or fully adhered using the fasteners, plates and adhesives specified in this evaluation report.

Fasteners: Fasteners must be of sufficient length to penetrate into and through the steel deck a minimum of 3/4" or the plywood deck or fully penetrate into the wood boards.

Note: The manufacturer's installation instructions must be available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.

Appendix 1: Attachment Requirements for Wind Uplift Resistance						
Table	Deck	Assembly No.	Application	Type	Description	Page
1	Wood	W-1 – W-7	New or Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	7-9
1 (Cont.)	LWC	LWC-1 – LWC-3	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	10-11
2	Concrete	C-1	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Base Sheet, Bonded Roof Cover	11
3	Steel	S-1	New or Reroof (Tear-Off)	D	Preliminarily Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	12
3 (Cont.)	Steel	S-2 & S-3	New or Reroof (Tear-Off)	D	Preliminarily Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	13
4	Steel or Concrete	SC-1	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	14
4 (Cont.)	Steel or Concrete	SC-2 & SC-3	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	14-15
4 (Cont.)	Steel	S-4 – S-12	New or Reroof (Tear-Off)	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	16-21
5	Wood, Steel or Concrete	WSC-1	New or Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	21
5 (Cont.)	Wood, Steel or Concrete	WSC-2 – WSC-6	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	22-25
5 (Cont.)	Steel or Concrete	SC-4 – SC-8	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	25-27
5 (Cont.)	Steel	S-13 – S-34	New or Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	28-38
5 (Cont.)	Wood	W-8	New or Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	39
6	Concrete	C-2 – C-6	New or Reroof (Tear-Off)	A	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	40
6 (Cont.)	Concrete	C-7	New or Reroof (Tear-Off)	A	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	41
7	Concrete	C-8 & C-9	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Roof Cover	41
7 (Cont.)	Concrete	C-10 – C-44	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Roof Cover	42-56
7 (Cont.)	Steel	S-35	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Roof Cover	57
7 (Cont.)	LWC	LWC-4 – LWC-14	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Roof Cover	58-62
7 (Cont.)	CWF	CWF-1 & CWF-2	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Roof Cover	63

Limitation and Installation (Cont): Installation must be in accordance with the following assemblies:

TABLE 1: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover	
		Type	Attach	Ply	Cap
#1 (W-1)	Min. 15/32" CDX plywood	MB Base	Mechanically fastened with Simplex MAXX Cap fasteners	None	APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
#2 (W-2)	Min. 15/32" CDX plywood	MB Base, SBS Base, SBS PolyBase	Mechanically fastened with Simplex MAXX Cap Fasteners	None	SBS Glass, SBS Glass FR, SBS Cap, SBS Premium, SBS FR Cap, SBS Premium FR* applied in hot-asphalt
#3 (W-3)	Min. 15/32" CDX plywood	MB Base, SBS Base, SBS PolyBase	Mechanically fastened with Simplex MAXX Cap Fasteners	None	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p> <p>**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite</p>					
Design Pressure (psf)	Base Sheet Attachment				
	At Lap		Staggered Center Row(s)		
	Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows	
0 < P ≤ -45	9	2	18	2	
45 < P < -52.5	9	2	12	2	
80 < P < -90	6	2	6	2	
90 < P < -105	6	2	6	3	

Limitation and Installation (Cont):

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)					
WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover	
		Type	Attach	Ply	Cap
#4 (W-4)	Min. 19/32" APA plywood	SBS Base	Mechanically fastened with 12 ga. x 1-1/4" ring shank nails through 32 ga. x 1-5/8" tin caps	SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth or SBS Premium Base, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.
				SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite					
Design Pressure (psf)	Base Sheet Attachment				
	At Lap			Staggered Center Row(s)	
	Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows	
0 < P ≤ -97.5	6	3	6	3	

Limitation and Installation (Cont):

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)					
WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover	
		Type	Attach	Ply	Cap
#5 (W-5)	Min. 19/32" APA plywood	MB Base	Mechanically fastened with min. 1.25" long Firestone All-Purpose fasteners and 3" diameter Insulation Fastening plates	(Optional) SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth or SBS Premium Base, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.
				(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite					
Base Sheet Attachment					
Design Pressure (psf)	At Lap		Staggered Center Row(s)		
	Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)		Min. # of Rows
	0 < P ≤ -60	12	3.5	12	2

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)					
WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover	
		Type	Attach	Ply	Cap
#6 (W-6)	Min. 19/32" APA plywood	MB Base	Mechanically fastened with 1-1/4" ring shank nails and 32 ga., 1-5/8" tin caps	BASEGARD SA, self-adhered and/or SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
				SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite					
Base Sheet Attachment					
Design Pressure (psf)	At Lap		Staggered Center Row(s)		
	Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)		Min. # of Rows
	0 < P ≤ -52.5	9	2	9	3

Limitation and Installation (Cont):

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER					
Assembly No.	Substrate	Base Sheet		Roof Cover	
		Type	Attach	Ply	Cap
#7 (W-7)	Min. 19/32" APA plywood	MB Base	Mechanically fastened with min. 1.25" long Firestone All-Purpose fasteners and 3" diameter Insulation Fastening plates	BASEGARD SA, self-adhered and/or SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
				SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite					
Base Sheet Attachment					
Design Pressure (psf)	At Lap			Staggered Center Row(s)	
	Max Spacing (inch o.c.)		Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows
0 < P ≤ -75	12		2	12	2

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – REROOF (Tear-Off) or RECOVER LIGHTWEIGHT CONCRETE DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Substrate	Lightweight Concrete	Base Sheet		Roof Cover	
			Type	Attach	Ply	Cap
#8 (LWC-1)	Min. 22 ga., Type B steel at max 5' spans	Min. 1/8" slurry coat of min. 200 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2" top coat. Celcore PVA curing compound is applied at 0.33 gal/sq.	MB Base, SBS Base, SBS Base P, SBS Premium Base, SBS Smooth, SBS PolyBase	Mechanically fastened with Firestone LWC Base Ply Fasteners (1.7")	SBS Glass Torch Base, SBS PolyTorch Base or SBS Smooth, torch-applied	SBS Smooth, SBS Torch, SBS FR Torch, SBS Glass FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Base Sheet Attachment						
Design Pressure (psf)	At Lap			Staggered Center Row(s)		
	Max Spacing (inch o.c.)		Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows	
0 < P ≤ -60	9		4	12	2	

Limitation and Installation (Cont):

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Substrate	Lightweight Concrete	Base Sheet		Roof Cover	
			Type	Attach	Ply	Cap
#9 (LWC-2)	Min. 22 ga., Type B, Grade 33 steel at max 6 ft spans	Min. 1/8-inch slurry coat, Mearlcrete Lightweight Concrete with 1-inch EPS board and a 2-inch top coat.	SBS Poly Torch Base	ES FM-290V	(Optional) Ply VI, SBS Base, SBS PolyBase, SBS Premium PolyBase, MB Base, SBS Smooth or SBS Premium Base, LiquiGard Membrane Adhesive at a rate of 1.5-2.0 gal/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, LiquiGard Membrane Adhesive at a rate of 1.5-2.0 gal/square
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite and SBS Glass FR UltraWhite						
Design Pressure (psf)			Base Sheet Attachment			
			At Lap		Staggered Center Row(s)	
			Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows
0 < P ≤ -45			7	4	N/A	N/A

TABLE 1 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Substrate	Lightweight Concrete	Base Sheet		Roof Cover	
			Type	Attach	Ply	Cap
#10 (LWC-3)	Min. 22 ga., Type B, Grade 33 steel at max 5' spans	Min. 1/8" slurry coat of min. 200 psi, Celcore MF Cellular Lightweight Concrete followed by 1" EPS board and a 2" top coat applied after overnight cure.	MB Base, SBS Base, SBS Glass Torch Base, SBS Premium Base, SBS PolyBase or SBS Poly Torch Base	Mechanically fastened with Firestone LWC Base Ply Fasteners (1.7-inch)	(Optional) SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth or SBS Premium Base, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.
					(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Torch, SBS FR Torch, SBS Glass FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)			Base Sheet Attachment			
			At Lap		Staggered Center Row(s)	
			Max Spacing (inch o.c.)	Min. Lap Width (inch)	Max Spacing (inch o.c.)	Min. # of Rows
0 < P ≤ -60			7	3	7	2

Limitation and Installation (Cont):

TABLE 2: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, NON-INSULATED, BONDED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Substrate	Base Sheet		Roof Cover		Design Pressure (psf)
		Type	Attach	Ply	Cap	
#11 (C-1)	Min. 2500 psi structural concrete or concrete plank primed with ASTM D-41 Primer	BASEGARD SA	Self-adhered	None	SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-135
					APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR**, torch adhered	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						

TABLE 3: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#12 (S-1)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL	Preliminary attachment	SBS PolyBase	Mechanically fastened with Firestone Heavy-Duty fasteners with a minimum length of 3inch and 1inch diameter Firestone Coiled Metal Batten Strips with a min. thickness of 0.046-inch.	BASEGARD SA, self-adhered and/or SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base bonded with hot-asphalt at a rate of 25-30 gal/sq	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* fully bonded with hot-asphalt at a rate of 25-30 gal/sq
						SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite Membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)	Base Sheet Attachment						
	At Lap			Staggered Center Row(s)			
	Max Spacing (inch o.c.)	Min. Lap Width (inch)		Max Spacing (inch o.c.)	Min. # of Rows		
0 < P ≤ -52.5	18	3		N/A	None		

Limitation and Installation (Cont):

TABLE 3 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#13 (S-2)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.0" ISO 95+ GL	Preliminary attachment	SBS Base, SBS Glass Torch Base, SBS Premium Base, SBS PolyBase, SBS Poly Torch Base or SBS Smooth	Mechanically fastened with min. 2-1/4-inch long Firestone All-Purpose with 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered and/or SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 gal/sq.
							SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Base Sheet Attachment					
		At Lap				Staggered Center Row(s)	
		Max Spacing (inch o.c.)		Min. Lap Width (inch)		Max Spacing (inch o.c.)	Min. # of Rows
0 < P ≤ -60		12		3		12	2

TABLE 3 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#14 (S-3)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ISOGARD HD Composite	Preliminary attachment	SBS PolyBase	Mechanically fastened with min. 4" long Heavy Duty Fasteners with 1" diameter Coiled Metal Batten Strips	BASEGARD SA, self-adhered and/or SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 gal/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 gal/sq.
						SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Base Sheet Attachment					
		At Lap				Staggered Center Row(s)	
		Max Spacing (inch o.c.)		Min. Lap Width (inch)		Max Spacing	Min. # of Rows
0 < P ≤ -45		24		3		N/A	N/A

Limitation and Installation (Cont):

TABLE 4: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation / Thermal Barrier		Top Insulation Layer(s)		Roof Cover	
		Type	Attach	Membrane	Fastener	Base	Cap
#15 (SC-1)	Min. 22 ga., Type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 0.5" DensDeck or DensDeck Prime	Mechanically fastened with min. 1-5/8" long Firestone All-Purpose (<i>steel deck only</i>) or min. 2" long Firestone Heavy-Duty fasteners and 3" diameter Insulation Fastening Plates	Min. 1.5" ISO 95+ GL followed by Min. 0.25" DensDeck Prime	Adhered with I.S.O. Twin Pack Adhesive applied 1/2" to 3/4" wide ribbons or I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous 3/4" to 1" wide ribbons	BASEGAR D SA, self-adhered	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite							
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 12-inch o.c.					
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		2.0		8		16	

TABLE 4 (Continued): FIRESTONE MODIFIED NEW BITUMEN –CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation / Thermal Barrier		Top Insulation Layer(s)		Roof Cover	
		Type	Attach	Membrane	Fastener	Base	Cap
#16 (SC-2)	Min. 22 ga., Type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 2" ISO 95+ GL, with staggered joints	Mechanically fastened with min. 3-1/4" long Firestone All-Purpose (<i>steel deck only</i>) or min. 3" long Firestone Heavy-Duty fasteners and 3" diameter Insulation Fastening Plates	Min. 0.5" Dens Deck Prime	Adhered with I.S.O. Twin Pack Adhesive applied 1/2" to 3/4" wide ribbons or I.S.O. Fix II Adhesive, I.S.O. Stick Adhesive or I.S.O. Spray S Adhesive in continuous 3/4" to 1" wide ribbons	BASEGAR D SA, self-adhered	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied SBS Cap, SBS Smooth, SBS Premium, SBS Glass FR, SBS Glass, SBS FR Cap, SBS Premium FR* fully bonded with hot-asphalt adhesive at a rate of 20-40 lbs/sq
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite							
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 4-inch o.c.					
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -67.5		1.0		16		32	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation / Thermal Barrier		Top Insulation Layer(s)		Roof Cover	
		Type	Attach	Membrane	Fastener	Base	Cap
#17 (SC-3)	Min. 22 ga., Type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 2" ISO 95+ GL, with staggered joints	Mechanically fastened with min. 3-1/4" long Firestone All-Purpose (<i>steel deck only</i>) or min. 3" long Firestone Heavy-Duty fasteners and 3" diameter Insulation Fastening Plates	Min. 0.5" ISOGARD HD	Adhered with I.S.O. Twin Pack Adhesive applied 1/2" to 3/4" wide ribbons or I.S.O. Fix II Adhesive, I.S.O. Stick Adhesive or I.S.O. Spray S Adhesive in continuous 3/4" to 1" wide ribbons	BASEGARD SA, self-adhered	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied SBS Cap, SBS Smooth, SBS Premium, SBS Glass FR, SBS Glass, SBS FR Cap, SBS Premium FR* fully bonded with hot-asphalt adhesive at a rate of 20-40 lbs/sq
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p> <p>**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite</p>							
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 4-inch o.c.					
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -105		1.0	16		32		

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#18 (S-4)	Min. 22 ga., Type B, Grade 33 steel	Min. 2" ISO 95+ GL,	Mechanically fastened with min. 2-7/8" long Firestone All-Purpose and 3" diameter Insulation Fastening Plates	Min. 0.5" ISO 95+ GL or SECUROCK Gypsum-Fiber Roof Board	Adhered with I.S.O. Stick Adhesive in continuous 3/4"-1" wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5 to 2 gal/sq.	(Optional) SBS Base, SBS PolyBase, SBS Smooth or SBS Premium Base in Multi-Purpose MB Cold Adhesive or LiquidGard Adhesive at a rate of 1.5 to 2 gal/sq	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquidGard Adhesive at a rate of 1.5 to 2 gal/sq
						SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
						SBS Glass Torch Base or SBS Poly Torch, torch-applied	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 6-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)	Parts per 4 x 4' board			Parts per 4 x 8' board		
0 < P ≤ -67.5		1.6	10			20		

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#19 (S-5)	Min. 22 ga., Type B, Grade 33 steel	Min. 2" ISO 95+ GL	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5" ISO 95+ GL or SECUROCK Gypsum-Fiber Roof Board	Adhered with I.S.O. Stick Adhesive in continuous ¾-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
							(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 6-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -67.5		1.6			10		20	

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#20 (S-6)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8" long Firestone All-Purpose and 3" diameter Insulation Fastening Plates	Min. 0.5" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Adhered with I.S.O. Twin Pack Adhesive (only with DensDeck Prime), I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ½-inch-3/4-inch wide ribbons	SBS Base or SBS Premium Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base or SBS Premium Base in Multi-Purpose MB Cold Adhesive at a rate of a rate of 1.5-2 gal/sq.	SBS Cap, SBS Glass FR, SBS FR Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.
							(Optional) SBS PolyBase or SBS Smooth in Multi-Purpose MB Cold Adhesive at a rate of a rate of 1.5-2 gal/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
								SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 6-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -52.5		1.6			10		20	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#21 (S-7)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Adhered with I.S.O. Twin Pack Adhesive (only with DensDeck Prime), I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ½-inch-3/4-inch wide ribbons	SBS Base, SBS PolyBase or SBS Smooth in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 6-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -52.5		1.6		10		20		

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#22 (S-8)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Adhered with I.S.O. Twin Pack Adhesive (only with DensDeck Prime), I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ½-inch-3/4-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth hot-asphalt at a rate of 25-30 lbs/sq. (Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 6-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -52.5		1.6		10		20		

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#23 (S-9)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch ISOGARD HD	Adhered with I.S.O. Twin Pack Adhesive, I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ¾-inch-1-inch wide ribbons	APP Premium Base, APP 160 COOL, APP 170 COOL in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 170, APP 170 COOL, APP 80 Glass Base, APP 80 Glass Base P, APP Premium Base or APP 160 P, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 COOL, APP 180 FR COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite, APP 180 FR UltraWhite and APP 180 FR COOL UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 12-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		1.78			9		18	

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#24 (S-10)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch ISOGARD HD	Adhered with I.S.O. Twin Pack Adhesive, I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ¾-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite, APP 180 FR UltraWhite and APP 180 FR COOL UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Secured in ¾-3/4-inch ribbons, 12-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		1.78			9		18	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#25 (S-11)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch ISO GARD HD	Adhered with I.S.O. Twin Pack Adhesive, I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ¾-inch-1-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.
						(Optional) SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Continuous ribbons, 12-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft ² / fastener)	Parts per 4 x 4' board			Parts per 4 x 8' board		
0 < P ≤ -45		1.78	9			18		

TABLE 4 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED INSULATION/COVERBOARD, BONDED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation		Top Insulation Layer(s)		Roof Cover		
		Type	Attach	Membrane	Fastener	Base	Ply	Cap
#26 (S-12)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.5-inch ISO 95+ GL or RESISTA	Mechanically fastened with +min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	Min. 0.5-inch ISO GARD HD	Adhered with I.S.O. Twin Pack Adhesive, I.S.O. Fix II Adhesive or I.S.O. Stick Adhesive in continuous ¾-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
							(Optional) SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								
Note:		Adhesive Ribbon Spacing Insulation & Coverboard: Secured in ½-¾-inch ribbons, 12-inch o.c.						
Design Pressure (psf)		Insulation Attachment						
		Density (ft ² / fastener)	Parts per 4 x 4' board			Parts per 4 x 8' board		
0 < P ≤ -45		1.78	9			18		

Limitation and Installation (Cont):

TABLE 5: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD, STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#27 (WSC-1)	Min. ¹⁹ / ₃₂ -inch APA plywood or 22 ga. Type B, Grade 33 steel or structural concrete	Optional one or more base layers of insulation, loose-laid, followed by min. 2-inch ISO 95+ GL, with staggered joints	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose (<i>wood or steel deck only</i>) or min. 4-inch long Firestone Heavy-Duty fasteners and 3-inch diameter Insulation Fastening Plates	SBS Base	Multi-Purpose MB Cold Adhesive at a rate of 1.5 to 2 gal/sq.	(Optional) SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth or SBS Premium Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5 to 2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5 to 2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.
						(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
						(Optional) BASEGARD SA, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Density (ft ² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -60		1.78		9		18	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD, STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Base	Roof Cover	
		Type	Attach		Ply	Cap
#28 (WSC-2)	Min. ¹⁹ / ₃₂ -inch APA plywood or 22 ga. Type B, Grade 33 steel or structural concrete	(Optional) One or more base layers of insulation, loose-laid, followed by min. 1.5-inch ISO 95+ GL, with staggered joints or existing lightweight concrete followed by min 2-inch ISO 95+ GL	Top layer mechanically fastened with min. 1/-3/4-inch or 2-7/8-inch long Firestone All-Purpose (<i>wood or steel deck only</i>) or min. 3-inch long Firestone Heavy Duty fasteners and 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth or Ply VI in hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in hot-asphalt at a rate of 25-30 lbs/sq.
					(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite **APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						
Design Pressure (psf)		Density (ft ² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board
0 < P ≤ -60		1.78		9		18
60 < P ≤ -82.5		1.33		12		24

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD, STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#29 (WSC-3)	Min. 19/32-inch APA plywood or 22 ga. Type B, Grade 33 steel or structural concrete	One or more base layers of insulation, min. 2-inch thick, loose-laid, followed by min. 0.5-inch Dens Deck Prime, with staggered joints	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose (wood or steel deck only) or min. 3-inch long Firestone Heavy-Duty fasteners 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) Ply VI, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 25-30 lbs/square
					(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		2.67	6		12	
45 < P ≤ -75		1.33	12		24	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD, STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#30 (WSC-4)	Min. 19/32" APA plywood or 22 ga. Type B, Grade 33 steel or structural concrete	One or more base layers of insulation, min. 1.5-inch thick, loose-laid, followed by min. 0.5-inch ISOGARD HD, with staggered joints	Top layer mechanically fastened with min. 2-7/8" long Firestone All-Purpose (wood or steel deck only) or min. 3" long Firestone Heavy-Duty fasteners 3" diameter Insulation Fastening Plates	BASEGARD SA	Self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied
#31 (WSC-5)	Min. 19/32" APA plywood or 22 ga. Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid, followed by min. 0.5-inch ISOGARD HD	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose Fasteners or min. 3-inch long Firestone Heavy Duty fasteners with 3-inch diameter Insulation Fastening Plates	MB Base, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth	Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	SBS Cap, SBS Smooth, SBS Premium, SBS Glass, SBS FR Cap, SBS Glass FR or SBS Premium FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -45		2.67	6		12		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD, STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#32 (WSC-6)	Min. 19/32-inch APA plywood or 22 ga. Type B, Grade 33 steel (New) or structural concrete (New or Recover)	(Optional) one or more base layers of insulation, loose-laid, followed by min. 1.5-inch RESISTA, with staggered joints	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose (wood or steel deck only) or min. 3-inch long Firestone Heavy Duty fasteners and 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
					(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		2.67	6		12	
45 < P ≤ -75		1.78	9		18	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#33 (SC-4)	22 ga. Type B, grade 33 steel (New) or structural concrete (New or Recover)	Optional one or more base layers of insulation, loose-laid, followed by min. 2.2-inch ISO 95+ GL, with staggered joints	Top layer mechanically fastened with min. 3-3/4-inch long Firestone All-Purpose (<i>steel deck only</i>) or min. 3-inch long Firestone Heavy-Duty fasteners 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied
						APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		4.0	4		8	

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#34 (SC-5)	22 ga. Type B, Grade 33 steel (New) or structural concrete (New or Recover)	Optional one or more base layers of insulation, loose-laid, followed by min. 2-inch ISO 95+ GL, with staggered joints	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose (<i>steel deck only</i>) or min. 3-inch long Firestone Heavy-Duty fasteners 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite **APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -67.5		2.0	8		16	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#35 (SC-6)	22 ga. Type B, Grade 33 steel (New) or structural concrete (New or Recover)	One or more base layers of insulation, min. 1.5-inch thick, loose-laid, followed by min. 0.25-inch Dens Deck Prime, with staggered joints	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose (wood or steel deck only) or min. 3-inch long Firestone Heavy-Duty fasteners 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite **APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		2.0	8		16	

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#36 (SC-7)	Min. 22 ga., type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 1.5-inch ISO 95+ GL loose-laid, followed by min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with Firestone All-Purpose Fasteners (Steel only), Heavy-Duty Fasteners, Concrete Drive Fasteners (Concrete only), Insulation Fastening Plates, Pre-Assembled Fasteners/Plates (Steel only), Pre-Assembled Heavy-Duty Fasteners/Plates, AP AccuTrac (Steel only) and HD AccuTrac	SBS Base, SBS Base P, SBS PolyBase or SBS Premium Base	Multi-Purpose MB Cold Adhesive at a rate of 2.0 gal/square	None	SBS FR Cap, SBS Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, in Multi-Purpose MB Cold Adhesive at a rate of 2.0 gal/square
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -90			1.45	11		22	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			
		Type	Attach	Base	Ply	Cap	
#37 (SC-8)	Min. 22 ga., type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 1.5-inch ISO 95+ GL loose-laid, followed by min. ¼-inch DensDeck Prime	Top layer mechanically fastened with Firestone All-Purpose Fasteners (Steel only), Heavy-Duty Fasteners, Concrete Drive Fasteners (Concrete only) and Insulation Fastening Plates	APP 160 or APP 170, torch-applied	None	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR or APP Premium FR**, torch-applied	
				SBS Torch Base or SBS Poly Torch, torch-applied		SBS FR Torch, SBS Torch, SBS Smooth, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -45			4.0	4	8		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#38 (S-13)	22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch ISO 95+ GL, loose laid, followed by min. 1-inch RESISTA or min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose Fasteners with 3-inch diameter Insulation Fastening Plates	MB Base or SBS Base, SBS Smooth, SBS PolyBase, SBS Premium Base	Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.	(Optional) Ply VI, MB Base or SBS Base, SBS Smooth, SBS PolyBase, SBS Premium Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR* in LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -67.5			0.84	19	38		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			
		Type	Attach	Base	Ply	Cap	
#39 (S-14)	22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch ISO 95+ GL, loose laid, followed by min. 1-inch RESISTA or min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose Fasteners with 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
					(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -67.5			0.84	19	38		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			
		Type	Attach	Type	Attach	Ply	Cap
#40 (S-15)	22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid, followed by min. 1.5-inch ISOGARD HD Composite, long joints staggered 4 ft	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose Fasteners with 3-inch diameter Insulation Fastening Plates	MB Base or SBS Base, SBS Smooth, SBS PolyBase, SBS Premium Base	Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.	(Optional) Ply VI, MB Base or SBS Base, SBS Smooth, SBS PolyBase, SBS Premium Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR* in LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq.
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -75		1.78	9		18		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			
		Type	Attach	Base	Ply	Cap	
#41 (S-16)	22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid, followed by min. 1.5-inch ISOGARD HD Composite, long joints staggered 4 ft OR Min. 1-inch ISO 95+ GL or RESISTA, loose laid followed by min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose Fasteners with 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS PolyBase, SBS Premium Base, SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq. (Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 25-30 lbs/sq SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -75		1.78	9		18		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#42 (S-17)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1-inch ISO 95+ GL or RESISTA, loose laid followed by min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	Ply VI, MB Base, SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth	Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square	(Optional) Ply VI, SBS Base, SBS PolyBase, SBS Premium Base, SBS Smooth or MB Base, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 25-30 lbs/square or hot-asphalt at a rate of 25-30 lbs/square
				SBS Glass Torch Base or SBS Poly Torch Base	Torch-applied	(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -67.5			1.33	12	24		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#43 (S-18)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1-inch ISO 95+ GL or RESISTA, loose laid followed by min. 0.25-inch or 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with min. 2-1/4-inch or 2-7/8-inch long Firestone All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	Ply VI, MB Base, SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth	Hot-asphalt at a rate of 25-30 lbs/square	(Optional) SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square
				SBS Glass Torch Base or SBS Poly Torch Base	Torch-applied	(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)			Insulation Attachment				
			Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -67.5			1.78	9	18		
67.5 < P ≤ -75			1.78	9	18		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#44 (S-19)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1-inch ISO 95+ GL or RESISTA, loose laid followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with min. 2-1/4-inch long Firestone All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 25-30 lbs/square
					(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -67.5		1.78	9		18	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	Cap
#45 (S-20)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.5-inch ISO 95+ GL, loose laid followed by min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	SBS Base	Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive, LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.
						(Optional) SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
						(Optional) BASEGARD SA, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -60		1.33	12		24		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#46 (S-21)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1-inch ISO 95+ GL or RESISTA, loose laid followed by min. 0.5-inch DensDeck Prime	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	APP 160 COOL or APP 170 COOL, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	APP 180 FR COOL, APP 180 COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.
				APP 80 Glass Base, APP 80 Glass Base P, APP Premium Base, APP 160, APP 160 P, APP 160 COOL, APP 170 or APP 170 COOL, torch-applied		APP 180, APP 180 FR or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -82.5		1.6	10	20		
82.5 < P ≤ -90		1.78	9	18		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#47 (S-22)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2-inch ISOGARD HD Composite	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	APP 160 COOL or APP 170 COOL, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	APP 180 FR COOL, APP 180 COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.
				APP 80 Glass Base, APP 80 Glass Base P, APP Premium Base, APP 160, APP 160 P, APP 160 COOL, APP 170 or APP 170 COOL, torch-applied		APP 180, APP 180 FR or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -52.5		4.0	4	8		
		2.67	6	12		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#48 (S-23)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2-inch ISO 95+ GL or ISOGARD HD Composite followed by an optional 0.5-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	APP 160 COOL or APP 170 COOL, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	APP 180 FR COOL, APP 180 COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. APP 180, APP 180 FR or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45		2.67	6		12	
45 < P ≤ -90		1.78	9		18	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#49 (S-24)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2.5-inch ISO 95+ GL	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	APP Premium Base, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 P, APP 160 COOL, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -52.5		2.13	8		15	

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#50 (S-25)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2.5-inch ISO 95+ GL	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -52.5		2.13	8	15		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#51 (S-26)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2.5-inch ISO 95+ GL	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square (Optional) SBS Poly Torch Base, SBS Glass Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Cap, SBS FR Cap, SBS Premium, SBS Smooth, SBS Premium FR, SBS Glass or SBS Glass FR*, LiquiGard Membrane Adhesive or Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/square SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -52.5		2.13	8	15		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#52 (S-27)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 2.5-inch ISO 95+ GL	Mechanically fastened with min. 3-inch long All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	BASEGARD SA, self-adhered	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/square	SBS Cap, SBS FR Cap, SBS Premium, SBS Smooth, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 25-30 lbs/square
					SBS Poly Torch Base, SBS Glass Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS FR Torch UltraWhite, SBS Premium Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -52.5		2.13	8	15		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#53 (S-28)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.0-inch ISO 95+ GL or RESISTA, loose-laid followed by 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	APP Premium Base, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 P, APP 160 COOL, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.
						APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -60		2.13	8	15		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#54 (S-29)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.0-inch ISO 95+ GL or RESISTA, loose-laid followed by 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -60		2.13	8	15		

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#55 (S-30)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.0-inch ISO 95+ GL or RESISTA, loose-laid followed by 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. (Optional) SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Poly Torch Base, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -60		2.13	8	15		

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base Sheet	Ply	Cap
#56 (S-31)	22 ga. Type B, Grade 33 steel at max 6 ft spans	Min. 1.0-inch ISO 95+ GL or RESISTA, loose-laid followed by 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Mechanically fastened with min. 2-7/8-inch long Firestone All-Purpose and 3-inch diameter Insulation Fastening Plates	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
					(Optional) SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)		Parts per 4 x 4' board	Parts per 4 x 8' board	
0 < P ≤ -60		2.13		8	15	

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)						
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#57 (S-32)	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL loose-laid, followed by min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Top layer mechanically fastened with Firestone All-Purpose Fasteners, Heavy-Duty Fasteners, Insulation Fastening Plates, Pre-Assembled Fasteners/Plates, AP AccuTrac and HD AccuTrac	SBS Glass Torch Base, SBS Poly Torch Base or SBS Smooth, torch-applied	None	SBS FR Torch, SBS Glass FR Torch, SBS Torch, SBS Smooth, SBS Premium Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)		Parts per 4 x 4' board	Parts per 4 x 8' board	
0 < P ≤ -150		1.0		16	32	

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Base Sheet		Roof Cover	
		Type	Attach	Type	Attach	Ply	
#58 (S-33)	Min. 22 ga., type B, Grade 33 steel	Min. 1.0-inch ISO 95+ GL loose-laid, followed by a top layer min. 0.5-inch ISOGARD HD	Top layer mechanically fastened with 2-7/8-inch Firestone All-Purpose Fasteners with Insulation Fastening Plates	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth or MB Base	Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.
							SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board			
0 < P ≤ -52.5		1.33	12	24			

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			
		Type	Attach	Base	Ply	Cap	
#59 (S-34)	Min. 22 ga., type B, Grade 33 steel	Min. 1.0-inch ISO 95+ GL loose-laid, followed by a top layer min. 0.5-inch ISOGARD HD	Top layer mechanically fastened with 2-7/8-inch Firestone All-Purpose Fasteners with Insulation Fastening Plates	BASEGARD SA, self-adhered	None		SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
							SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board			
0 < P ≤ -52.5		1.33	12	24			

Limitation and Installation (Cont):

TABLE 5 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover		
		Type	Attach	Base	Ply	Cap
#60 (W-8)	19/32-inch APA plywood	Min. 1.5-inch ISO 95+ GL	Mechanically fastened with min. 3-inch long Firestone All-Purpose fasteners and 3-inch diameter Insulation Fastening plates	None	(Optional) BASEGARD SA, self-adhered and/or SBS Base, Ply VI, SBS PolyBase, SBS Smooth or SBS Premium Base, hot-asphalt at a rate of 25-30 gal/sq. or SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 gal/sq. or SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite						
Design Pressure (psf)		Insulation Attachment				
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board		
0 < P ≤ -45		2.67	6	12		

Limitation and Installation (Cont):

TABLE 6: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Vapor Barrier	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#61 (C-2)	Structural concrete, ASTM D41 primer	SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	One or more layers, min. 1.5-inch ISO 95+GL followed by min. 0.25-inch Dens Deck Prime	I.S.O. Twin Pack Adhesive, ribbons 12-inch o.c.	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-82.5
							APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
#62 (C-3)	Structural concrete, Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	One or more layers, min. 1.5-inch ISO 95+GL followed by min. 0.25-inch Dens Deck Prime	I.S.O. Twin Pack Adhesive, ribbons 8-inch o.c.	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-82.5
							APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
#63 (C-4)	Structural concrete, Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	One or more layers, min. 1.5-inch ISO 95+GL followed by min. 0.25-inch Dens Deck Prime	I.S.O. Stick Adhesive, ribbons 12-inch o.c.	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-82.5
							APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
#64 (C-5)	Structural concrete, Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	One or more layers, min. 1.5-inch ISO 95+GL followed by min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive or I.S.O. Stick Adhesive, ribbons 12-inch o.c.	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-90
							APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
#65 (C-6)	Structural concrete, Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	One or more layers, min. 1.5-inch ISO 95+GL followed by min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, ribbons 8-inch o.c.	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-112.5
							APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p> <p>**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite</p>								

Limitation and Installation (Cont):

TABLE 6 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Vapor Barrier	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#66 (C-7)	Structural concrete, V-Force SB Primer at 100 ft ² /gal.	V-Force Vapor Barrier Membrane, self-adhered	One or more layers, min. 0.5-inch ISO 95+GL followed by min. 1.0-inch ISO 95+ GL	I.S.O. Stick Adhesive, ribbons 6-inch o.c., in ¾-inch-1-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-287.5
						(Optional) SBS Glass Torch Base or SBS Poly Torch, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								

TABLE 7: FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#67 (C-8)	Structural concrete	Optional min. 1.5-inch ISO 95+ GL followed by min. 0.25-inch Tapered ISO 95+ GL	I.S.O. Twin Pack Adhesive, 12-inch o.c., ½-inch-¾-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-112.5
						APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
#68 (C-9)	Structural concrete	Min. 1.5-inch RESISTA followed by optional min. 0.5-inch RESISTA	I.S.O. FIX II Adhesive, I.S.O. Spray S Adhesive, I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c., ½-inch-¾-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied	-202.5
						APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite **APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite and APP 180 FR UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#69 (C-10)	Structural concrete	Min. 1.5-inch ISO 95+GL followed by min. 0.5-inch ISOGARD HD	I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	-232.5
#70 (C-11)	Structural concrete	Min. 1.5-inch ISO 95+GL followed by min. 0.5-inch ISOGARD HD	I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR*, Torch, torch-applied	-255
#71 (C-12)	Structural concrete	Min. 1.5-inch ISO 95+GL followed by min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, 12-inch o.c., ½-inch-¾-inch wide ribbons	BASGARD SA, self-adhered	None	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	-255
#72 (C-13)	Structural concrete	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II Adhesive, 4-inch o.c., ¾-inch-1-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	-255
#73 (C-14)	Structural concrete	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II Adhesive, 8-inch o.c., ¾-inch wide ribbons	BASGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch, SBS Premium FR Torch*, torch-applied APP 160, APP 170, APP 170 COOL, APP 180 or APP 180 FR**, torch-applied	-300

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite
****APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 UltraWhite and APP 180 FR UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
#74 (C-15)	Structural concrete	One or more layers of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack Adhesive or I.S.O. Stick Adhesive, 12-inch o.c., ½-inch-3/4-inch wide ribbons	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive or I.S.O. Stick Adhesive, 12-inch o.c., ½-inch-3/4-inch wide ribbons	MB Base, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	None	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	-67.5
						APP 80 Glass Base COOL, APP 160 COOL, APP 170 COOL or APP Premium Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.		APP 160 COOL, APP 170 COOL, APP 180 COOL, APP 180 FR COOL or APP Premium FR** in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium Ultra FR UltraWhite
****APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 FR COOL UltraWhite and APP Premium FR UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER											
Assembly No.	Substrate	Primer	Temp Roof	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Type	Attach	Base	Ply	Cap	
#75 (C-16)	Structural concrete	Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	Min. 1.5-inch ISO 95+ GL followed by an optional second layer of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack Adhesive, 8-inch o.c., ½-inch-¾-inch wide ribbons	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Twin Pack Adhesive, 8-inch o.c., ½-inch-¾-inch wide ribbons	MB Base, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 20-50 lbs/square	(Optional) Ply IV, Ply VI, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 20-50 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 20-50 lbs/square	-112.5
								SBS Poly Torch Base, SBS Glass Torch Base or SBS Smooth Torch, torch-applied	None	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Smooth Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	
								APP 80 Glass Base P, APP 160, APP 170, APP 170 COOL or APP Premium Base, torch-applied	None	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR, APP Premium FR**, torch-applied	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite
****APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 UltraWhite, APP 180 FR UltraWhite and APP Premium FR UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER											
Assembly No.	Substrate	Primer	Temp Roof	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Type	Attach	Base	Ply	Cap	
#76 (C-17)	Structural concrete	Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	Min. 1.5-inch ISO 95+ GL followed by an optional second layer of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack Adhesive, 8-inch o.c., 1/2-inch-3/4-inch wide ribbons	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, 8-inch o.c., 1/2-inch-3/4-inch wide ribbons	MB Base SA or BASEGARD SA, self-adhered	None	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	-112.5
									None	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR or APP Premium FR**, torch-applied	
#77 (C-18)	Structural concrete	Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	Min. 1.5-inch ISO 95+ GL followed by an optional second layer of min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons	Min. 0.5-inch ISOGARD HD or min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons	MB Base SA or BASEGARD SA, self-adhered	None	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	-90
									None	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR or APP Premium FR**, torch-applied	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p> <p>**APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite and APP Premium FR UltraWhite</p>											

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER											
Assembly No.	Substrate	Primer	Temp Roof	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Type	Attach	Base	Ply	Cap	
#78 (C-19)	Structural concrete	Firestone SA Primer	MB Base SA or BASEGARD SA, self-adhered	Min. 1.5-inch ISO 95+ GL followed by an optional second layer of min. 1.5-inch ISO 95+ GL	I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	Min. 0.25-inch DensDec k or DensDec k Prime	I.S.O. Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	MB Base, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 20-50 lbs/square	(Optional) Ply IV, Ply VI, SBS Base, SBS PolyBase, SBS Premium Base or SBS Smooth, hot-asphalt at a rate of 20-50 lbs/square	SBS Cap, SBS FR Cap, SBS Smooth, SBS Premium, SBS Premium FR, SBS Glass or SBS Glass FR*, hot-asphalt at a rate of 20-50 lbs/square	-90
								SBS Poly Torch Base, SBS Glass Torch Base or SBS Smooth Torch, torch-applied	None	SBS Glass FR Torch, SBS Torch, SBS FR Torch, SBS Smooth Torch, SBS Premium Torch or SBS Premium FR Torch*, torch-applied	
								APP 80 Glass Base P, APP 160, APP 170, APP 170 COOL or APP Premium Base, torch-applied	None	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR, APP Premium FR**, torch-applied	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite
****APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 UltraWhite, APP 180 FR UltraWhite and APP Premium FR UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#79 (C-20)	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive or I.S.O. FIX II Adhesive, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons	APP 80 Glass Base, APP Premium Base, APP 160, APP 170, APP 170 COOL, APP 160 P, APP 160 or APP 80 Glass P, torch-applied	None	APP Premium FR, APP 180 or APP 180 FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or torch-applied	-462.5
*APP UltraWhite membranes may be used as alternates to standard sheets: APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite								

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#80 (C-21)	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive or I.S.O. FIX II Adhesive, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons	SBS PolyBase or SBS Smooth in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-400
					SBS Glass Torch Base or SBS Poly Torch, torch-applied	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#81 (C-22)	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive or I.S.O. FIX II Adhesive, 12-inch o.c., in 1/2-3/4-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-400
						(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#82 (C-23)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 1-inch ISO 95+GL	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., 3/4-inch wide ribbons	APP Premium Base, APP 160 COOL or APP 170 COOL in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 160 P, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	-105
						APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	
#83 (C-24)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Top Insulation: I.S.O. Twin Pack Adhesive, 12-inch o.c., 3/4-inch wide ribbons	APP Premium Base, APP 160 COOL or APP 170 COOL in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 160 P, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	-122.5
						APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#84 (C-25)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 1-inch ISO 95+GL	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons Top Insulation: I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	-105
#85 (C-26)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board					-122.5

***APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#86 (C-27)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 1-inch ISO 95+GL	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium Poly Base, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-105
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
#87 (C-28)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Top Insulation: I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium Poly Base, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-122.5
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#88 (C-29)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 1-inch ISO 95+GL	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-105
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
#89 (C-30)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Top Insulation: I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-122.5
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#90 (C-31)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.5-inch ISOGARD HD	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons Top Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	APP Premium Base, APP 160 COOL or APP 170 COOL in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 160 P, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	-110
					(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 160 P, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#91 (C-32)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.5-inch ISOGARD HD	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons Top Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	-110

***APP UltraWhite membranes may be used as alternates to standard sheets:** APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#92 (C-33)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.5-inch ISOGARD HD	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons Top Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium Poly Base, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. (Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-110

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#93 (C-34)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.5-inch ISOGARD HD	Base Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons Top Insulation: I.S.O. Fix II, I.S.O. Stick or I.S.O. Twin Pack Adhesive, 12-inch o.c., ¾-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-110
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#94 (C-35)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot-asphalt at a rate of 25-30 lb/sq.	APP Premium Base, APP 160 COOL or APP 170 COOL in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	(Optional) APP Premium Base, APP 160, APP 160 COOL, APP 160 P, APP 170, APP 170 COOL, APP 80 Glass Base or APP 80 Glass Base P in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	APP 180 FR COOL, APP 180 COOL or APP Premium FR* in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	-130
						APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#95 (C-36)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot-asphalt at a rate of 25-30 lb/sq.	BASEGARD SA, self-adhered	None	APP 180, APP 180 COOL, APP 180 FR, APP 180 FR COOL or APP Premium FR*, torch-applied.	-130
*APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 UltraWhite and APP 180 FR UltraWhite							

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#96 (C-37)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot-asphalt at a rate of 25-30 lb/sq.	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium Poly Base, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGuard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. (Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGuard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq. SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-130
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#97 (C-38)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot-asphalt at a rate of 25-30 lb/sq.	BASEGARD SA, self-adhered	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	-130
					(Optional) SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off)							
CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#98 (C-39)	Structural concrete	Min. 0.5-inch ISO 95+ GL, min. 1.0-inch ISO 95+ GL followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick Adhesive, 6-inch o.c., ¾-inch-1-inch wide ribbons Top Insulation: I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.	SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-317.5
					SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite							

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#99 (C-40)	Structural concrete	Min. 0.5-inch ISO 95+ GL, min. 1.0-inch ISO 95+ GL followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick Adhesive, 6-inch o.c., ¾-inch-1-inch wide ribbons Top Insulation: I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	(Optional) BASEGARD SA, self-adhered	SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-285
					SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
#100 (C-41)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick, I.S.O. Fix II Adhesive 12-inch o.c., ¾-inch-1-inch or I.S.O. Twin Pack Adhesive, 12-inch o.c., ½-¾-inch wide ribbons Top Insulation: I.S.O. Stick Adhesive, 12-inch o.c., ¾-inch-1-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-175
				SBS Glass Torch Base or SBS Poly Torch, torch-applied.	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
#101 (C-42)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick, I.S.O. Fix II Adhesive 6 or 12-inch o.c., ¾-inch-1-inch or I.S.O. Twin Pack Adhesive, 12-inch o.c., ½-inch-¾-inch wide ribbons Top Insulation: I.S.O. Stick Adhesive, 6-inch o.c., ¾-inch-1-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-347.5
				SBS Glass Torch Base or SBS Poly Torch, torch-applied.	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	

*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Base	Ply	Cap	
#102 (C-43)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick, I.S.O. Fix II Adhesive 12-inch o.c., 3/4-inch-1-inch or I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons Top Insulation: and I.S.O. Stick Adhesive, 12-inch o.c., 3/4-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-175
					(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
#103 (C-44)	Structural concrete	Min. 0.5-inch ISO 95+ GL, followed by a top layer min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Base Insulation: I.S.O. Stick, I.S.O. Fix II Adhesive 6 or 12-inch o.c., 3/4-inch-1-inch or I.S.O. Twin Pack Adhesive, 12-inch o.c., 1/2-inch-3/4-inch wide ribbons Top Insulation: I.S.O. Stick Adhesive, 6-inch o.c., 3/4-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-347.5
					(Optional) SBS Base, SBS Premium Base, SBS PolyBase or SBS Smooth, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, BONDED INSULATION, BONDED ROOF COVER											
Assembly No.	Substrate	Thermal Barrier	Attach	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Type	Attach	Base	Ply	Cap	
#104 (S-35)	22 ga. Type B, Grade 33 steel	0.5-inch DensDeck Prime	I.S.O. Stick Adhesive in continuous 1-inch wide ribbons	Min. 1.5-inch ISO 95+ GL, 0.5-inch ISO 95+ GL or RESISTA	Hot Asphalt at a rate of 20-40 lbs/sq.	Min. 2-inch ISO 95+GL	Hot Asphalt at a rate of 20-40 lbs/sq.	(Optional) SBS Base, SBS Premium, SBS PolyBase, SBS Premium PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base, hot-asphalt at a rate of 20-40 lbs/sq.	SBS Base, SBS Premium Base, SBS PolyBase, SBS Premium PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-52.5
									SBS Glass Torch Base, SBS Poly Torch Base or SBS Glass Torch Base 1.5, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	

***SBS UltraWhite membranes may be used as alternates to standard sheets:** SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Lightweight Concrete	Base Insulation Layer(s)	Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Base	Ply	Cap	
#105 (LWC-4)	Structural concrete	Min. 1/8-inch slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	None	Min. 1/4-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive or I.S.O. Fix II, 12-inch o.c., in 3/4-inch-1-inch wide ribbons or I.S.O. Twin Pack, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons	SBS Glass Torch Base or SBS Poly Torch, torch-applied	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied.	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-127.5
						SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive, LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite									

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Lightweight Concrete	Base Insulation Layer(s)	Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Base	Ply	Cap	
#106 (LWC-5)	Structural concrete	Min. 1/8-inch slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	None	Min. 1/4-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive or I.S.O. Fix II, 12-inch o.c., in 3/4-inch-1-inch wide ribbons or I.S.O. Twin Pack, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied.	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-127.5
							(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite									

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Thermal Barrier	Attach	Roof Cover			Design Pressure (psf)
					Base	Ply	Cap	
#107 (LWC-6)	CWF	Min. 1/8-inch slurry coat, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. ¼-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-1-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-145
					SBS Glass Torch Base or SBS Poly Torch, torch-applied	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Thermal Barrier	Attach	Roof Cover			Design Pressure (psf)
					Base	Ply	Cap	
#108 (LWC-7)	CWF	Min. 1/8-inch slurry coat, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. ¼-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-145
						(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite								

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Vapor Barrier	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Base	Ply	Cap	
#109 (LWC-8)	Structural concrete	SBS Glass Torch Base, torch-applied to concrete deck	Min. 1/8-inch slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive, I.S.O. Fix II Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c. in ½-inch-¾-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	-222.5
						SBS Glass Torch Base or SBS Poly Torch, torch-applied	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p>									

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Vapor Barrier	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
				Type	Attach	Base	Ply	Cap	
#110 (LWC-9)	Structural concrete	SBS Glass Torch Base, torch-applied to concrete deck	Min. 1/8-inch slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive, I.S.O. Fix II Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons or I.S.O. Twin Pack Adhesive, 12-inch o.c. in ½-inch-¾-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-222.5
							(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply IV, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p>									

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#111 (LWC-10)	Structural concrete	Min. 1/8-inch slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. 0.5-inch ISOGARD HD	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-172.5
						(Optional) SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot-asphalt at a rate of 25-30 lbs/sq.	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p>								

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#112 (LWC-11)	Structural concrete	Min. 1/8-inch slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. 0.25-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons	BASEGARD SA, self-adhered	(Optional) SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	-177.5
			Min. 1.0-inch ISO 95+ GL	I.S.O. FIX II Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons		(Optional) APP 160, APP 160 COOL, APP 160-P, APP 170, APP 170 COOL, APP 80 Glass Base, APP 80 Glass Base P or APP Premium Base, torch-applied	APP 180, APP 180 FR or APP Premium FR**, torch-applied	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p> <p>** APP UltraWhite membranes may be used as alternates to standard sheets: APP 180 UltraWhite, APP 180 FR UltraWhite and APP Premium FR UltraWhite</p>								

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#113 (LWC-12)	Structural concrete	Min. 1/8-inch slurry coat of min. 300 psi, Elastizell Cellular Lightweight Concrete followed by 1-inch EPS board and a 2-inch top coat.	Min. 0.25-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in 3/4-inch-1-inch wide ribbons	None	SBS PolyBase, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square	SBS FR or SBS Premium FR*, Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	-144.5
			Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons				

*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Premium FR UltraWhite

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#114 (LWC-13)	Structural concrete	Min. 1/8-inch slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1-inch EPS board and a 2-inch top coat. Celcore PVA curing compound is applied at 300 ft ² /gal.	Min. 0.25-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in 3/4-inch-1-inch wide ribbons	N/A	SBS PolyBase, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square	SBS FR or SBS Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	-106
			Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, 12-inch o.c., in 1/2-inch-3/4-inch wide ribbons				

*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Premium FR UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Lightweight Concrete	Insulation Layer(s)		Roof Cover			Design Pressure (psf)
			Type	Attach	Base	Ply	Cap	
#115 (LWC-14)	Structural concrete	Min. 1/8-inch slurry coat of min. 200 psi, Cellular Lightweight Concrete followed by 1-inch EPS board and a 2-inch top coat applied after overnight cure.	Min. 0.25-inch DensDeck Prime	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons	N/A	SBS PolyBase, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square	SBS FR or SBS Premium FR*, Multi-Purpose MB Cold Adhesive at a rate of 1.5-2.0 gal/square or hot-asphalt at a rate of 25-30 lbs/sq.	-76.5
			Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack Adhesive, 12-inch o.c., in ½-inch-¾-inch wide ribbons				

*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Premium FR UltraWhite

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CEMENTITIOUS WOOD FIBER DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
#116 (CWF-1)	CWF	Min. 0.5-inch ISO 95+ GL	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1-inch wide ribbons	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI (<i>Ply VI Not with LiquiGard Membrane Adhesive</i>) or MB Base (<i>MB Base Not with LiquiGard Membrane Adhesive</i>) in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq. or hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR* in Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5-2 gal/sq or hot-asphalt at a rate of 25-30 lbs/sq.	-202.5
						SBS Glass Torch Base or SBS Poly Torch, torch-applied	SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch-applied	

*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite

Limitation and Installation (Cont):

TABLE 7 (Continued): FIRESTONE MODIFIED BITUMEN – NEW CONSTRUCTION or REROOF (Tear-Off) CEMENTITIOUS WOOD FIBER DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer(s)		Roof Cover			Design Pressure (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
#117 (CWF-2)	CWF	Min. 0.5-inch ISO 95+ GL	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch-1- inch wide ribbons	Min. ¼-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick Adhesive, 12-inch o.c., in ¾-inch- 1-inch wide ribbons	BASEGAR D SA, self- adhered	SBS Glass Torch Base or SBS Poly Torch Base, torch-applied	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth or SBS Premium FR*, hot- asphalt at a rate of 25-30 lbs/sq.	-202.5
							SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth, Ply VI or MB Base, hot-asphalt at a rate of 25-30 lbs/sq.	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch*, torch- applied	
<p>*SBS UltraWhite membranes may be used as alternates to standard sheets: SBS Glass UltraWhite, SBS Glass FR UltraWhite, SBS FR Cap UltraWhite, SBS Cap UltraWhite, SBS Premium UltraWhite, SBS Premium FR UltraWhite, SBS Glass FR Torch UltraWhite, SBS Torch UltraWhite, SBS Premium Torch UltraWhite, SBS FR Torch UltraWhite and SBS Premium FR Torch UltraWhite</p>									

Note: Keep the manufacturer’s installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.