



Product Evaluation

RC273| 0716

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 must 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-273

Effective Date: July 1, 2016

Re-evaluation Date: July 2020

Product Name: Firestone EPDM Roofing Systems

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

Also manufactured as: GenFlex Roofing System a Division of Firestone Building

General Description:

- **RubberGard FR®** and **RubberGard LS-FR®** are nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, non-reinforced Ethylene Propylene Diene Monomer based, single-ply roof membranes.
- **RubberGard Platinum®** is a nominal 90-mil (2.2 mm) thick, non-reinforced, Ethylene Propylene Diene Monomer based, single-ply roof membrane.
- **RubberGard MAX®** and **RubberGard MAX FR®** are a nominal 45-mil (1.1 mm), 60-mil (1.5 mm) or 75-mil (1.9 mm) thick, internally reinforced Ethylene Propylene Diene Monomer based, single-ply roof membrane.
- **RubberGard EcoWhite®** is a nominal 60-mil (1.5 mm) thick, non-reinforced, bi-laminate, white-on-black, cured single ply roof membrane.
- **RubberGard LS-FR PT®** is a non-reinforced low slope fire retardant EPDM membrane panel with 3" or 6" wide QuickSeam tape factory laminated continuously along one 100' length of the panel.
- **RubberGard EcoWhite PT®** is a non-reinforced white EPDM membrane with 3" wide QuickSeam tape factory laminated continuously along lengthwise edge of the panel.
- **RubberGard MAX PT®** is a scrim reinforced EPDM membrane panel with 3" or 6" wide QuickSeam tape factory laminated continuously along one 100' length of the panel.

General Description (cont.):

- **RubberGard EPDM SA** is a nominal 60-mil (1.5 mm) thick, non-reinforced Ethylene Propylene Diene Monomer based, single ply self-adhering roof membrane.
- **ISO 95+ GL** is a polyisocyanurate foam insulation board with a glass reinforced mat facer.
- **ISO 95+ GL Tapered** is a polyisocyanurate foam insulation board with a glass reinforced mat facer (tapered boards).
- **RESISTA** is a polyisocyanurate foam insulation board with a coated fiberglass facer.
- **RESISTA Tapered** is a polyisocyanurate foam insulation board with a coated fiberglass facer (tapered boards).
- **ISOGARD HD** is a high-density polyisocyanurate board with a coated fiberglass facer.
- **ISOGARD HD Composite** is a closed-cell polyisocyanurate foam core laminated to a 1/2" ISOGARD HD board.
- **HailGard** is a closed-cell polyisocyanurate foam core laminated to a glass reinforced mat facer on one side, and 7/16" oriented strand board on the other side.
- **Bonding Adhesive BA-2004 T** is a solvent based contact adhesive used for all EPDM roof covers and flashing to insulation, wood, metal, masonry and other approved substrates.
- **Water Based Bonding Adhesive-P** is a contact adhesive used for bonding Firestone EPDM membranes to approved substrates.
- **Single-Ply LVOC Bonding Adhesive** is a solvent-based contact adhesive used for bonding Firestone EPDM membranes to insulation, wood, metal, masonry and other approved substrates. **Single-Ply LVOC Bonding Adhesive 1168** is a bonding adhesive used for bonding Firestone EPDM membranes to insulation, wood, metal, masonry and other approved substrates.
- **EPDM Solvent Free Bonding Adhesive** is a polymer based bonding adhesive for adhering non-reinforced RubberGard EPDM membranes to approved substrates.
- **V-Force SB Primer** is a solvent-based primer to prepare porous substrates to receive V-Force Vapor Barrier Membrane.
- **SA-Solvent Base (SB) Primer** is a synthetic polymer adhesion-enhancing resin use to prime and prepare exterior concrete, metal, wood, plywood and gypsum surfaces to enhance the adhesion of Firestone V-Force Vapor Barrier Membranes, Enverge Air & Vapor Barrier SA Membranes and CLAD-GARD Metal Roof Underlayments.
- **SA-LVOC Primer** is a synthetic polymer and adhesion-enhancing resin use to prime and prepare exterior concrete, metal, wood, plywood and gypsum surfaces to enhance the adhesion of Firestone V-Force Vapor Barrier Membranes, Enverge Air & Vapor Barrier SA Membranes and CLAD-GARD Metal Roof Underlayments.
- **Firestone SA Primer** is a synthetic polymer use to prime substrates prior to the application of BASEGARD SA or MB Base SA.
- **Firestone #12 Fastener** is a #12 fastener for steel or wood decks.
- **Firestone All-Purpose Fastener** is a #14 fastener for steel or wood decks.
- **Firestone Heavy Duty Fastener** is a #15 fastener for steel, wood or concrete decks.
- **Firestone Metal Batten Strip** is a metal batten strip for anchoring Firestone membranes and flashing details.
- **Firestone Polymer Batten Strip** is a polymer batten strip for anchoring Firestone membranes and flashing details.
- **Firestone Insulation Fastening Plate** is a 3" galvalume insulation plate used with Firestone #12 Fasteners, All-Purpose Fasteners, Heavy-Duty Fasteners and Concrete Drive fasteners.

General Description (cont.):

- **Firestone Seam Plate** is a 2" metal plate used with Firestone All-Purpose Fasteners, Heavy-Duty Fasteners and Concrete Drive fasteners.
- **Firestone V-Plate** is a 2-1/4" galvalume plate used with Firestone All-Purpose Fasteners, Heavy Duty Fasteners and Concrete Drive fasteners.
- **Pre-Assembled Heavy-Duty Fastener and Insulation Plate** is a SAE 1022 heat treated steel fastener with an AZ-50 galvalume steel plate used in all firestone roof systems to pre-attach insulation or base sheets to steel and wood decks.
- **Concrete Drive Fastener** is used with Firestone Insulation Plates for the attachment of roofing insulation, and base sheets, or attachment of Firestone Metal Batten Strips, Seam Plates, Termination Bars and other accessories into structural concrete substrates.

GenFlex Product Description:

- **GenFlex II FR EPDM** and **GenFlex AFR EPDM** are nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, non-reinforced Ethylene Propylene Diene Monomer based, single-ply roof membranes.
- **GenFlex AFR** is a nominal 90-mil (2.2 mm) thick, non-reinforced, Ethylene Propylene Diene Monomer based, single-ply roof membrane.
- **GenFlex II FRM** and **GenFlex II FRM-FR** are a nominal 45-mil (1.1 mm), 60-mil (1.5 mm) or 75-mil (1.9 mm) thick, internally reinforced Ethylene Propylene Diene Monomer based, single-ply roof membrane.
- **GenFlex FlexWhite EPDM** is a nominal 60-mil (1.5 mm) thick, non-reinforced, bi-laminate, white-on-black, cured single ply roof membrane.
- **GenFlex AFR PT** is a non-reinforced low slope fire retardant EPDM membrane panel with 3" or 6" wide QuickSeam tape factory laminated continuously along one 100' length of the panel.
- **GenFlex FlexWhite PT** is a non-reinforced white EPDM membrane with 3" wide QuickSeam tape factory laminated continuously along lengthwise edge of the panel.
- **GenFlex II FRM PT** is an internally reinforced EPDM membrane panel with 3" or 6" wide QuickSeam tape factory laminated continuously along one 100' length of the panel.
- **GenFlex ISO Insulation** is a polyisocyanurate foam insulation board with a glass reinforced mat facer.
- **GenFlex ISO Insulation Tapered** is a polyisocyanurate foam insulation board with a glass reinforced mat facer (tapered boards).
- **Coated Glass Facer** is a polyisocyanurate foam insulation board with a coated fiberglass facer.
- **Coated Glass Facer Tapered** is a polyisocyanurate foam insulation board with a coated fiberglass facer (tapered boards).
- **GenFlex HD ISO** is a high-density polyisocyanurate board with a coated fiberglass facer.
- **GenFlex HD Composite ISO** is a closed-cell polyisocyanurate foam core laminated to a 1/2" GenFlex HD ISO board.
- **GenFlex HailGard** is a closed-cell polyisocyanurate foam core laminated to a glass reinforced mat facer on one side and 7/16" oriented strand board on the other side.
- **GenFlex All Purpose Bonding Adhesive** is a solvent-based contact adhesive for bonding Approved GenFlex EPDM membranes and flashing to insulation, wood, metal, masonry and other approved substrates.
- **GenFlex Water Based Bonding Adhesive** is a water-based latex, low VOC contact adhesive for bonding GenFlex EPDM membranes to approved substrates.
- **GenFlex EPDM Bonding Adhesive LVOC** is a solvent-based formulation used for bonding GenFlex EPDM to insulation, wood, metal, masonry and other approved substrates.

GenFlex Product Description (cont.):

- **EZ TPO Bonding Adhesive LVOC-1168** is a bonding adhesive used for bonding GenFlex EPDM membranes and flashing to insulation, wood, metal, masonry and other approved substrates.
- **GenFlex EPDM Solvent Free Bonding Adhesive** is a polymer based bonding adhesive for adhering non-reinforced GenFlex EPDM membranes to approved substrates.
- **GenFast #12 Fastener** is a #12 fastener for steel or wood decks.
- **GenFast AP Fastener** is a #14 fastener for steel or wood decks.
- **GenFlex Heavy Duty Fastener** is a #15 fastener for steel, wood or concrete decks.
- **GenFlex Batten Strip** is a metal batten strip for anchoring GenFlex membranes and flashing details.
- **GenFast 3/4" Polymer Batten Strip** is a polymer batten strip for anchoring GenFlex membranes and flashing details.
- **GenFast 3" Round Insulation Plate** is a 3" galvalume insulation plate used with GenFast #12 Fasteners, GenFast AP Fasteners, GenFlex Heavy-Duty Fasteners and GenFast Concrete Drive fasteners.
- **GenFast 2" Metal Seam Plate** is a 2" metal plate used with GenFast AP Fasteners, GenFlex Heavy-Duty Fasteners and GenFast Concrete Drive fasteners.
- **GenFast Venting Seam Plate** is a 2-1/4" galvalume plate used with GenFast AP Fasteners, GenFlex Heavy-Duty Fasteners and Concrete Drive fasteners.
- **GenFast Concrete Drive Fastener** is used with Firestone Insulation Plates for the attachment of roofing insulation, and base sheets, or attachment of Firestone Metal Batten Strips, Seam Plates, Termination Bars and other accessories into structural concrete substrates.

Other Manufactures Product Description:

- **SECUROCK Gypsum Fiber Roof Board** is a high performance roof board for use in low-slope roofing systems.
- **DensDeck** and **DensDeck Prime** are a fiberglass mat-faced, noncombustible, nonstructural, gypsum core panel.
- **AP AccuTrac Kits** are used in roofing applications for the attachment of insulation to steel and wood roof decks with OMG AccuTrac installation equipment.
- **IsoFast #12 Belted Fastener** is a low carbon steel, AZ 50 galvalume plate used for the attachment of insulation to steel and wood.
- **IsoFast #15 Belted Fastener** is a low carbon steel, AZ 50 galvalume plate used for the attachment of insulation and membrane to steel and wood.
- **IF-L-70x70 Insulation Plate** is a 2-3/4" square stacked insulation and membrane plate used with #12 Belted Fasteners and #15 Belted Fasteners.

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 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 EPDM roofing system may be installed over an existing TPO, EPDM, SBS Modified Bitumen or Built-Up-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 ten 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.

Seam Lap: All lap seams must be sealed with Firestone adhesives or tape per Firestone specification.

Fasteners: Fasteners must be of sufficient length to have a minimum of 3/4" penetration through the top flute of the steel deck, or a minimum of 1" plywood penetration or wood plank embedment.

Installation: Installation must be in accordance with the following assemblies:

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	Deck	Assembly No.	Application	Description	Page
1-A	Wood	W-1 through W-20	New, Reroof (Tear-Off) or Recover	Optional Base Insulation, Mechanically Attached Top Insulation, Bonded Roof Cover	8-17
1-B	Wood	W-21 through W-32	New or Reroof (Tear-Off)	Mechanically Attached Insulation, Bonded Roof Cover	18-23
1-C	Wood	W-33 through W-36	New or Reroof (Tear-Off)	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	24-25
2-A	Steel	S-1 through S-12	New or Reroof (Tear-Off)	Mechanically Attached Insulation, Bonded Roof Cover	26-31
2-B	Steel	S-13 through S-16	New or Reroof (Tear-Off)	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	32-33
2-C	Steel or Concrete	SC-1 through SC-12	New, Reroof (Tear-Off) or Recover	Mechanically Attached Insulation, Bonded Roof Cover	34-38
2-D	Steel or Concrete	SC-13 through SC-16	New, Reroof (Tear-Off) or Recover	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	39-40
3	Steel	S-17 and S-26	New or Reroof (Tear-Off)	Preliminarily Attached Insulation, Mechanically Attached Roof Cover	41-43
4	Concrete	C-1 through C-24	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	44-53

Limitation and Installation (Cont):

TABLE 1-A: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
1 (W-1)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) One or more layers, any combination	Loose-laid	Min. 1" ISOGARD HD	Firestone All-Purpose Fasteners and Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Adhesive, Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
2 (W-2)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) One or more layers, any combination	Loose-laid	Min. 1" GenFlex HD ISO	GenFast AP Fasteners and GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -45.0		2.0	8		16		

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
3 (W-3)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) One or more layers, any combination	Loose-laid	Min. 0.25" DensDeck	Firestone Heavy-Duty Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
4 (W-4)					GenFlex Heavy Duty Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft²/fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -45.0		1.33	12		24		

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
5 (W-5)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) One or more layers, any combination	Loose-laid	Min. 0.5" DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Adhesive, Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
6 (W-6)					GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -45.0		1.6	10		20		

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
7 (W-7)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
					GenFast AP Fasteners with GenFast 3" Round Insulation Plates	RubberGard EPDM SA	Self-adhered
8 (W-8)	(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.			
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.6		10		20	

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
9 (W-9)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
10 (W-10)		(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board
0 < P ≤ -45.0		2.13			8		15

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)							
WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
11 (W-11)	Nominal 7/16" OSB over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
12 (W-12)		(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)			Parts per 4 x 4' board		Parts per 4 x 8' board
0 < P ≤ -45.0		2.67			6		12

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
13 (W-13)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 0.5" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" DensDeck Prime	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
14 (W-14)		(Optional) Min. 0.5" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.78		9		18	

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
15 (W-15)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with	RubberGard FR [®] , LS-FR [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
					Firestone Insulation Fastening Plates	RubberGard EPDM SA	Self-adhered
16 (W-16)		(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		2.13		8		15	

Limitation and Installation (Cont):

TABLE 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
17 (W-17)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
18 (W-18)		(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / 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 1-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, OPTIONAL BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
19 (W-19)	Nominal 15/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	(Optional) Min. 1" RESISTA or ISO 95+ GL	Loose-Laid	Min. 0.5" SECUROCK Gypsum-Fiber Roof Board	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
20 (W-20)		(Optional) Min. 1" Coated Glass Facer or GenFlex ISO Insulation	Loose-Laid		GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
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	

Limitation and Installation (Cont):

TABLE 1-B: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
21 (W-21)	Nominal 19/32” Type APA Rated plywood over No. 2 wood trusses at 24” o.c.	Min. 2” ISO 95+ GL	Firestone #12 Fasteners or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
				RubberGard EPDM SA	Self-adhered
22 (W-22)		Min. 2” GenFlex ISO Insulation	GenFast #12 Fasteners or GenFast AP Fasteners with GenFast 3” Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)	Insulation Attachment				
	Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0	1.78	9		18	

Limitation and Installation (Cont):

TABLE 1-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
23 (W-23)	Nominal 15/32” Type APA Rated plywood over No. 2 wood trusses at 24” o.c.	Min. 1.5” RESISTA	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
				RubberGard EPDM SA	Self-adhered
24 (W-24)		Min. 1.5” Coated Glass Facer	GenFast AP Fasteners with GenFast 3” Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment			
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board	
0 < P ≤ -60.0		1.78	9	18	

Limitation and Installation (Cont):

TABLE 1-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
25 (W-25)	Nominal 15/32” Type APA Rated plywood over No. 2 wood trusses at 24” o.c.	Min. 1.5” ISOGARD HD Composite	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
				RubberGard EPDM SA	Self-adhered
26 (W-26)		Min. 1.5” GenFlex HD ISO	GenFast AP Fasteners with GenFast 3” Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment			
		Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board
0 < P ≤ -45.0		2.67	6		12

Limitation and Installation (Cont):

TABLE 1-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)					
WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
27 (W-27)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	Min. 2" ISOGARD HD Composite	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
				RubberGard EPDM SA	Self-adhered
28 (W-28)		Min. 2" GenFlex HD ISO	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment			
		Density (ft² / fastener)		Parts per 4 x 4' board	Parts per 4 x 8' board
0 < P ≤ -45.0		1.33		12	24

Limitation and Installation (Cont):

TABLE 1-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Thermal Barrier		Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Type	Attach	Membrane	Attach
29 (W-29)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	Min. 0.25" DensDeck or DensDeck Prime	Loose-laid	Min. 1.5" ISO 95+ GL	Loose-laid	Min. 0.5" ISOGARD HD	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal.
30 (W-30)				Min. 1.5" GenFlex ISO Insulation		Min. 0.5" GenFlex ISO Insulation			
Design Pressure (psf)		Insulation Attachment							
		Density (ft² / fastener)				Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.78				9		18	

Limitation and Installation (Cont):

TABLE 1-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Thermal Barrier		Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Type	Attach	Membrane	Attach
31 (W-31)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	Min. 0.25" DensDeck or DensDeck Prime	Loose-laid	Min. 1.5" ISO 95+ GL	Loose-laid	Min. 1" ISOGARD HD Composite	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
32 (W-32)				Min. 1.5" GenFlex ISO Insulation		Min. 1" GenFlex HD Composite ISO	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.
Design Pressure (psf)		Insulation Attachment							
		Density (ft² / fastener)				Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		4.0				4		8	

Limitation and Installation (Cont):

TABLE 1-C: FIRESTONE EPDM AND GENFLEX EPDM - NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Thermal Barrier		Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Type	Attach	Membrane	Attach
33 (W-33)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	Min. 0.25" DensDeck or DensDeck Prime	Loose-laid	Min. 1.5" ISO 95+ GL	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	Min. 0.5" ISOG ARD HD	Firestone I.S.O. Twin Pack Adhesive applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
34 (W-34)				Min. 1.5" GenFlex ISO Insulation	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	Min. 0.5" GenFlex HD ISO	OlyBond 500 applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.
Design Pressure (psf)		Insulation Attachment							
		Density (ft² / fastener)				Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.0				16		32	

Limitation and Installation (Cont):

TABLE 1-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM - NEW CONSTRUCTION or REROOF (Tear-Off) WOOD DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Thermal Barrier		Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Type	Attach	Membrane	Attach
35 (W-35)	Nominal 19/32" Type APA Rated plywood over No. 2 wood trusses at 24" o.c.	Min. 0.5" DensDeck or DensDeck Prime	Firestone All- Purpose Fasteners with Firestone Insulation Fastening Plates	First Layer: Min. 1.5" ISO 95+ GL Second Layer (Optional): Min. 1.5" ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.	Min. 0.25" DensDeck Prime	Firestone I.S.O. Twin Pack Adhesive applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA- 2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
36 (W-36)			GenFast AP Fasteners with GenFast 3" Round Insulation Plates	First Layer: Min. 1.5" GenFlex ISO Insulation Second Layer (Optional): Min. 1.5" GenFlex ISO Insulation	OlyBond 500 applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.		OlyBond 500 applied in 1/2"-3/4" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in 3/4"-1" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM- FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.
Design Pressure (psf)		Insulation Attachment							
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board			
0 < P ≤ -45.0		2.0		8		16			

Limitation and Installation (Cont):

TABLE 2-A: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
37 (S-1)	Min. 22 ga., Type B, Grade 33 steel	(Optional) One or more layers, any combination	Loose-laid	Min. 1.5" ISO 95+ GL	Firestone #12 Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
38 (S-2)				Min. 1.5" GenFlex ISO Insulation	GenFast #12 Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		2.67		6		12	

Limitation and Installation (Cont):

TABLE 2-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
39 (S-3)	Min. 22 ga., Type B, Grade 33 steel	(Optional) One or more layers, any combination	Loose-laid	Min. 1.5" ISO 95+ GL	Firestone #12 Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
40 (S-4)				Min. 1.5" GenFlex ISO Insulation	GenFast #12 Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -60.0		1.78		9		18	

Limitation and Installation (Cont):

TABLE 2-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
41 (S-5)	Min. 22 ga., Type B, Grade 33 steel	(Optional) One or more layers, any combination	Loose-laid	Min. 2" ISO 95+ GL	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
42 (S-6)				Min. 2" GenFlex ISO Insulation	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		4.0		4		8	

Limitation and Installation (Cont):

TABLE 2-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER							
STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
43 (S-7)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ISO 95+ GL	Loose-laid	Min. 0.5" ISOGARD HD (Not to exceed max. 1" in recover applications)	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal
						RubberGard EPDM SA	Self-adhered
44 (S-8)		Min. 1.5" GenFlex ISO Insulation		Min. 0.5" GenFlex HD ISO (Not to exceed max. 1" in recover applications)	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		2.7		6		12	

Limitation and Installation (Cont):

TABLE 2-A (Continued) FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
45 (S-9)	Min. 22 ga., Type B, Grade 80 steel max 6' spans	Min. 1" ISO 95+ GL	Loose-laid	HailGard, RESISTA, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or OSB (APA rated)	Firestone Heavy Duty Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , LS-FR PT [®] , Platinum [®] , MAX [®] , MAX FR [®] , MAX PT [®] or EcoWhite [®]	EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
46 (S-10)				GenFlex HailGard, Coated Glass Facer, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or OSB (APA rated)	GenFlex Heavy Duty Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -60.0		1.0		16		32	

Limitation and Installation (Cont):

TABLE 2-A (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
47 (S-11)	Min. 22 ga., Type B, Grade 80 steel max 6' spans	Min. 1" ISO 95+ GL	Loose-laid	ISO 95+ GL, ISOGARD HD or ISOGARD HD Composite	Firestone Heavy Duty Fasteners with Firestone Insulation Fastening Plates	RubberGard FR [®] , LS-FR [®] , LS-FR PT [®] , Platinum [®] , MAX [®] , MAX FR [®] , MAX PT [®] or EcoWhite	EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
48 (S-12)				GenFlex ISO Insulation, GenFlex HD ISO or GenFlex HD Composite ISO	GenFlex Heavy Duty Fasteners with GenFast 3" Round Insulation Plates	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.0		16		32	

Limitation and Installation (Cont):

TABLE 2-B: FIRESTONE EPDM AND GENFLEX EPDM - NEW CONSTRUCTION or REROOF (Tear-Off)							
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
49 (S-13)	Min. 22 ga., Type B, Grade 33 steel max 6' spans	Min. 2" ISO 95+ GL	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	Min. 0.5" ISO 95+ GL or RESISTA followed by ISOGARD HD	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
50 (S-14)		Min. 2" GenFlex ISO Insulation	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	Min. 0.5" GenFlex ISO Insulation followed by GenFlex HD ISO	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, II FRM, FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
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	

Limitation and Installation (Cont):

TABLE 2-B (Continued): FIRESTONE EPDM AND GENFLEX EPDM - NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
51 (S-15)	Min. 22 ga., Type B, Grade 33	Min. 1.5" ISO 95+ GL	Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates	Min. 0.5" ISO GARD HD	Firestone I.S.O. Twin Pack Adhesive applied in 1/2"-3/4" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal
						RubberGard EPDM SA	Self-adhered
52 (S-16)		Min. 1.5" GenFlex ISO Insulation	GenFast AP Fasteners with GenFast 3" Round Insulation Plates	Min. 0.5" GenFlex HD ISO	OlyBond 500 applied in 1/2"-3/4" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft ² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		2		8		16	

Limitation and Installation (Cont):

TABLE 2-C: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
53 (SC-1)	Min. 22 ga., Type B, Grade 33 steel max 6' spans or structural concrete	Min. 1.5" ISO 95+ GL	Loose-laid	Min. 1" ISOGARD HD Composite Or Max. 1" ISOGARD HD Composite (Steel - Recover)	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
54 (SC-2)		Min. 1.5" GenFlex ISO Insulation		Min. 1" GenFlex HD Composite ISO Or Max. 1" GenFlex HD Composite ISO (Steel – Recover)	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation Plates (Steel)	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		4.0		4		8	

Limitation and Installation (Cont):

TABLE 2-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
55 (SC-3)	Min. 22 ga., Type B, Grade 33 steel max 6' spans or structural concrete	Min. 1.5” ISO 95+ GL	Loose-laid	Min. 0.5” ISOGARD HD Or Max. 1” ISOGARD HD (Steel - Recover)	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	RubberGard FR®, LS- FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal.
56 (SC-4)		Min. 1.5” GenFlex ISO Insulation		Min. 0.5” GenFlex ISO Insulation Or Max. 1” GenFlex HD ISO (Steel – Recover)	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3” Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3” Round Insulation (Steel)		
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -45.0		1.78		9		18	
-45.0 < P ≤ -60.0		1.33		12		24	

Limitation and Installation (Cont):

TABLE 2-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
57 (SC-5)	Min. 22 ga., Type B, Grade 33 steel max 6' spans or structural concrete	Min. 1.5" ISO 95+ GL	Loose-laid	Min. 1" ISOGARD HD Composite Or Max. 1" ISOGARD HD (Steel - Recover)	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
58 (SC-6)		Min. 1.5" GenFlex ISO Insulation		Min. 1" GenFlex HD Composite ISO Or Max. 1" GenFlex HD ISO (Steel – Recover)	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation Plates (Steel)	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)	Parts per 4 x 4' board		Parts per 4 x 8' board		
0 < P ≤ -60.0		1.33	12		24		

Limitation and Installation (Cont):

TABLE 2-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
59 (SC-7)	Min. 22 ga., Type B, Grade 33 steel max 6' spans or structural concrete	Min. 1.5" ISO 95+ GL, RESISTA, or ISOGARD HD Composite	Loose-Laid	Min. 0.5" SECUROCK Gypsum Fiber Roof Board	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	RubberGard FR [®] , LS-FR [®] , LS-FR PT [®] , Platinum [®] , MAX [®] , MAX FR [®] , MAX PT [®] , EcoWhite [®] or EcoWhite PT [®]	Bonding Adhesive BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
						RubberGard EPDM SA	Self-adhered
60 (SC-8)		Min. 1.5" GenFlex ISO Insulation, Coated Glass Facer, or GenFlex HD Composite ISO	Loose-Laid	Min. 0.5" SECUROCK Gypsum Fiber Roof Board	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation Plates (Steel)	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT, FlexWhite EPDM or FlexWhite PT	GenFlex All Purpose Bonding Adhesive, GenFlex EPDM Bonding Adhesive LVOC or EZ TPO Bonding Adhesive LVOC 1168 applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)	Parts per 4 x 4' board			Parts per 4 x 8' board	
0 < P ≤ -82.5		1.0	16			32	

Limitation and Installation (Cont):

TABLE 2-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
61 (SC-9)	Min. 22 ga., Type B, Grade 33 steel max 6' spans	Min. 1.5" ISOGARD HD Composite	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening (Steel)	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal.
62 (SC-10)	(New) or structural concrete (New or Recover)	Min. 1.5" GenFlex HD Composite ISO	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation (Steel)	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal.
Design Pressure (psf)		Insulation Attachment			
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board	
0 < P ≤ -112.5		1.33	12	24	

TABLE 2-C (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER					
Assembly No.	Substrate	Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Attach
63 (SC-11)	Min. 22 ga., Type B, Grade 33 steel max 6' spans	Min. 2" ISOGARD HD Composite	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening (Steel)	RubberGard FR [®] , LS-FR [®] , Platinum [®] , MAX [®] , MAX FR [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal.
64 (SC-12)	(New) or structural concrete (New or Recover)	Min. 2" GenFlex HD Composite ISO	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation (Steel)	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding applied at a rate of 45-60 ft ² /gal.
Design Pressure (psf)		Insulation Attachment			
		Density (ft ² / fastener)	Parts per 4 x 4' board	Parts per 4 x 8' board	
0 < P ≤ -120.0		1.33	12	24	

Limitation and Installation (Cont):

TABLE 2-D: FIRESTONE EPDM AND GENFLEX EPDM - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Membrane	Attach
65 (SC-13)	Min. 22 ga., Type B, Grade 33 steel max 6' spans (New) or structural concrete (New or Recover)	Min. 2" ISO 95+ GL	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) Or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	Min. 0.5" ISOGARD HD	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal.
66 (SC-14)		Min. 2" GenFlex ISO Insulation	GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) Or GenFast AP Fasteners with GenFast 3" Round Insulation (Steel)	Min. 0.5" GenFlex HD ISO	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal.
Design Pressure (psf)		Insulation Attachment					
		Density (ft² / fastener)		Parts per 4 x 4' board		Parts per 4 x 8' board	
0 < P ≤ -90.0		1.0		16		32	

Limitation and Installation (Cont):

TABLE 2-D (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER STEEL or CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Thermal Barrier		Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover	
		Type	Attach	Type	Attach	Type	Attach	Membrane	Attach
67 (SC-15)	Min. 22 ga., Type B, Grade 33 steel (New) or structural concrete (New or Recover)	Min. 0.5" DensDeck or DensDeck Prime	Firestone Heavy-Duty Fasteners or Concrete Drive Fasteners with Firestone Insulation Fastening Plates (Concrete) or Firestone All-Purpose Fasteners with Firestone Insulation Fastening Plates (Steel)	Min. 1.5" ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	Min. 0.25" DensDeck Prime	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.
68 (SC-16)			GenFlex Heavy Duty Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Plates (Concrete) or GenFast AP Fasteners with GenFast 3" Round Insulation (Steel)	Min. 1.5" GenFlex ISO Insulation	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.		OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.		
Design Pressure (psf)		Insulation Attachment							
		Density (ft² / fastener)		Parts per 4 x 4' board			Parts per 4 x 8' board		
0 < P ≤ -45.0		2.0		8			16		

Limitation and Installation (Cont):

TABLE 3: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Fastener
69 (S-17)	Min. 22 ga., Type B, Grade 80 steel max 6' spans	Min. 1.5" ISO 95+ GL	Preliminarily attached	RubberGard MAX®	Firestone All-Purpose Fasteners with Firestone Metal Batten Strips or Firestone V-Plates
70 (S-18)		Min. 1.5" GenFlex ISO Insulation		GenFlex II FRM	GenFast AP with GenFlex Batten Strips or GenFast Venting Seam Plates
Design Pressure (psf)		Membrane Attachment			
0 < P ≤ -52.5		6" o.c. fastener spacing at 6" laps and 114" o.c.			

TABLE 3 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Fastener
71 (S-19)	Min. 22 ga., Type B, Grade 33 steel max 6' spans	Min. 1.5" ISO 95+ GL	Preliminarily attached	RubberGard MAX®, MAX FR® or MAX PT®	Firestone Heavy Duty Fasteners with Firestone Polymer Batten Strips
72 (S-20)		Min. 1.5" GenFlex ISO Insulation		GenFlex II FRM, II FRM-FR or II FRM PT	GenFlex Heavy Duty Fasteners with GenFast ¾" Polymer Batten Strips
Design Pressure (psf)		Membrane Attachment			
0 < P ≤ -52.5		6" o.c. fastener spacing at 6" laps and 84" o.c.			

Limitation and Installation (Cont):

TABLE 3 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)					
STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Fastener
73 (S-21)	Min. 22 ga., Type B, Grade 33 steel max 5' spans	Min. 1.5" thick, one or more layers, any combination	Preliminarily attached	RubberGard MAX®	Firestone All-Purpose Fasteners with Firestone Seam Plates
74 (S-22)				GenFlex II FRM	GenFast AP Fasteners with GenFast 2" Metal Seam Plates
Design Pressure (psf)		Membrane Attachment			
0 < P ≤ -45.0		12" o.c. fastener spacing at 7" laps and 84" o.c.			

TABLE 3 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off)					
STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Fastener
75 (S-23)	Min. 22 ga., Type B, Grade 33 steel max 6' spans	Min. 1.5" thick, one or more layers, any combination	Preliminarily attached	RubberGard MAX®	Firestone All-Purpose Fasteners with Firestone Batten Strips
76 (S-24)				GenFlex II FRM	GenFast AP Fasteners with GenFlex Batten Strips
Design Pressure (psf)		Membrane Attachment			
0 < P ≤ -45.0		6" o.c. fastener spacing at 6" laps and 114" o.c.			

Limitation and Installation (Cont):

TABLE 3 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer (s)		Roof Cover	
		Type	Attach	Membrane	Fastener
77 (S-25)	Min. 22 ga., Type B, Grade 80 steel max 6' spans	Min. 1.5" ISO 95+ GL	Preliminarily attached	Min. 60 mil RubberGard MAX® or MAX FR®	Firestone All-Purpose Fasteners with Firestone V-Plates
78 (S-26)		Min. 1.5" GenFlex ISO Insulation		Min. 60 mil GenFlex II FRM or II FRM-FR	GenFast AP Fasteners with GenFast Venting Seam Plates
Design Pressure (psf)		Membrane Attachment			
0 < P ≤ -52.5		6" o.c. fastener spacing at 6" laps and 114" o.c.			

Limitation and Installation (Cont):

TABLE 4: FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Substrate	Primer	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
			Type	Attach	Type	Attach	Membrane	Attach	
79 (C-1)	Structural concrete	None	Min. 1.5” ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½”-¾” wide ribbons spaced 12” o.c.	Min. 0.5” ISOGARD HD	Firestone I.S.O. Twin Pack Adhesive applied in ½”-¾” wide ribbons spaced 12” o.c.	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	-222.5
							RubberGard EPDM SA	Self-adhered	
80 (C-2)			Min. 1.5” GenFlex ISO Insulation	OlyBond 500 applied in ½”-¾” wide ribbons spaced 12” o.c.	Min. 0.5” GenFlex HD ISO	OlyBond 500 applied in ½”-¾” wide ribbons spaced 12” o.c.	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	
81 (C-3)	Structural concrete	ASTM D41	Min. 1.5” ISO 95+ GL	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” ISOGARD HD	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal	-247.5
							RubberGard EPDM SA	Self-adhered	
82 (C-4)			Min. 1.5” GenFlex ISO Insulation	GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” GenFlex HD ISO	GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate	Base Insulation Layer (s)		Roof Cover		Design Pressure (psf)
		Type	Attach	Membrane	Attach	
83 (C-5)	Structural concrete	Min. 0.5" ISOGARD HD	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, Platinum®, MAX®, MAX FR® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	-300.0
				RubberGard EPDM SA	Self-adhered	
84 (C-6)		Min. 0.5" GenFlex HD ISO	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR, II FRM, II FRM-FR or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	
85 (C-7)	Structural concrete	Min. 0.5" ISOGARD HD	Firestone I.S.O. Stick Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	RubberGard EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	-405.0
86 (C-8)		Min. 0.5" GenFlex HD ISO	GenFlex One Step Insulation Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	GenFlex FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – 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	Membrane	Attach	
87 (C-9)	Structural concrete	First Layer: Min. 1.5" ISO 95+ GL Second Layer (Optional): Min. 1.5" ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c.	Min. 0.5" ISOGAR D HD	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 12" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal	-247.5
						RubberGard EPDM SA	Self-adhered	
88 (C-10)	Structural concrete	First Layer: Min. 1.5" GenFlex ISO Insulation Second Layer (Optional): Min. 1.5" GenFlex ISO Insulation	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c.	Min. 0.5" GenFlex HD ISO	OlyBond 500 applied in ½"-¾" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – 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	Membrane	Attach	
89 (C-11)	Structural concrete	First Layer: Min. 1.5" ISO 95+ GL Second Layer (Optional): Min. 1.5" ISO 95+ GL	Firestone I.S.O. FIX II Adhesive or Firestone I.S.O. Stick Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	Min. 0.5" ISO GARD HD	Firestone I.S.O. FIX II Adhesive or Firestone I.S.O. Stick Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	RubberGard FR [®] , LS-FR [®] , LS-FR PT [®] , Platinum [®] , MAX [®] , MAX FR [®] , MAX PT [®] or EcoWhite [®]	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal	-277.5
						RubberGard EPDM SA	Self-adhered	
90 (C-12)	Structural concrete	First Layer: Min. 1.5" GenFlex ISO Insulation Second Layer (Optional): Min. 1.5" GenFlex ISO Insulation	GenFlex I.S.O. FIX II Adhesive or GenFlex One Step Insulation Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	Min. 0.5" GenFlex HD ISO	GenFlex I.S.O. FIX II Adhesive or GenFlex One Step Insulation Adhesive applied in ¾"-1" wide ribbons spaced 12" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – 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	Membrane	Attach	
91 (C-13)	Structural concrete	First Layer: Min. 1.5” ISO 95+ GL Second Layer (Optional): Min. 1.5” ISO 95+ GL	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” ISO GARD HD	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T applied at a rate of 45-60 ft ² /gal or EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal	-322.5
						RubberGard EPDM SA	Self-adhered	
92 (C-14)		First Layer: Min. 1.5” GenFlex ISO Insulation Second Layer (Optional): Min. 1.5” GenFlex ISO Insulation	GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” GenFlex HD ISO	GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive applied at a rate of 45-60 ft ² /gal or GenFlex EPDM Solvent Free Bonding Adhesive applied at a rate of 150 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER										
Assembly No.	Substrate	Primer	Vapor Barrier	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
				Type	Attach	Type	Attach	Membrane	Attach	
93 (C-15)	Structural concrete	Firestone SA Primer applied at a rate of 200 ft ² /gal to concrete	MB Base SA, self-adhered	First Layer: Min. 1.5” ISO 95+ GL Second Layer (Optional): Min. 1.5” ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½”-¾” wide ribbons spaced 12” o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” ISO GARD HD or min. 2” ISO GARD HD Composite	Firestone I.S.O. Twin Pack Adhesive applied in ½”-¾” wide ribbons spaced 12” o.c. or Firestone I.S.O. Stick Adhesive or Firestone I.S.O. FIX II Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Firestone BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.	-90.0
94 (C-16)				First Layer: Min. 1.5” GenFlex ISO Insulation Second Layer (Optional): Min. 1.5” GenFlex ISO Insulation	OlyBond 500 applied in ½”-¾” wide ribbons spaced 12” o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.5” GenFlex ISO Insulation or min. 2” GenFlex HD Composite ISO	OlyBond 500 applied in ½”-¾” wide ribbons spaced 12” o.c. or GenFlex One Step Insulation Adhesive or GenFlex I.S.O. FIX II Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-PT, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.	

Limitation and Installation (Cont):

Limitation and Installation (Cont):TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER										
Assembly No.	Substrate	Primer	Vapor Barrier	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
				Type	Attach	Type	Attach	Membrane	Attach	
95 (C-17)	Structural concrete	Firestone SA Primer applied at a rate of 200 ft ² /gal to concrete	MB Base SA, self-adhered	First Layer: Min. 1.5” ISO 95+ GL Second Layer (Optional): Min. 1.5” ISO 95+ GL	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	Min. 0.25” DensDeck or DensDeck Prime	Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Firestone BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal.	-90.0
96 (C-18)				First Layer: Min. 1.5” GenFlex ISO Insulation Second Layer (Optional): Min. 1.5” GenFlex ISO Insulation	GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.		GenFlex One Step Insulation Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER										
Assembly No.	Substrate	Primer	Vapor Barrier	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
				Type	Attach	Type	Attach	Membrane	Attach	
97 (C-19)	Structural concrete	Firestone SA Primer applied at a rate of 200 ft ² /gal to concrete	MB Base SA, self-adhered	First Layer: Min. 1.5" ISO 95+ GL Second Layer (Optional): Min. 1.5" ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 8" o.c.	Min. 0.5" ISO GARD HD	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 8" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Firestone BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.	-112.5
98 (C-20)				First Layer: Min. 1.5" GenFlex ISO Insulation Second Layer (Optional): Min. 1.5" GenFlex ISO Insulation	OlyBond 500 applied in ½"-¾" wide ribbons spaced 8" o.c.	Min. 0.5" GenFlex ISO Insulation	OlyBond 500 applied in ½"-¾" wide ribbons spaced 8" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM	GenFlex All Purpose Bonding Adhesive or GenFlex EPDM Bonding Adhesive LVOC applied at a rate of 45-60 ft ² /gal or GenFlex Water Based Bonding Adhesive applied at a rate of 100-120 ft ² /gal.	

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER										
Assembly No.	Substrate	Primer	Vapor Barrier	Base Insulation Layer (s)		Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
				Type	Attach	Type	Attach	Membrane	Attach	
99 (C-21)	Structural concrete	Firestone SA Primer applied at a rate of 200 ft ² /gal to concrete	MB Base SA, self-adhered	First Layer: Min. 1.5" ISO 95+ GL Second Layer (Optional): Min. 1.5" ISO 95+ GL	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 8" o.c.	Min. 0.25" DensDeck or DensDeck Prime	Firestone I.S.O. Twin Pack Adhesive applied in ½"-¾" wide ribbons spaced 8" o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Firestone BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 45-60 ft ² /gal.	-112.5
100 (C-22)				First Layer: Min. 1.5" GenFlex ISO Insulation Second Layer (Optional): Min. 1.5" GenFlex ISO Insulation	OlyBond 500 applied in ½"-¾" wide ribbons spaced 8" o.c.		OlyBond 500 applied in ½"-¾" wide ribbons spaced 8" o.c.	GenFlex II FR EPDM, AFR EPDM, AFR PT, AFR, II FRM, II FRM-FR, II FRM PT or FlexWhite EPDM		

Limitation and Installation (Cont):

TABLE 4 (Continued): FIRESTONE EPDM AND GENFLEX EPDM – NEW CONSTRUCTION or REROOF (Tear-Off) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER						
Assembly No.	Substrate Type	Top Insulation Layer (s)		Roof Cover		Design Pressure (psf)
		Type	Attach	Membrane	Attach	
101 (C-23)	Structural concrete	Min. 0.5” ISOGARD HD	Firestone I.S.O. FIX II Adhesive applied in ¾”-1” wide ribbons spaced 4” o.c.	RubberGard FR®, LS-FR®, LS-FR PT®, Platinum®, MAX®, MAX FR®, MAX PT® or EcoWhite®	Bonding Adhesive BA-2004 T or Single-Ply LVOC Bonding Adhesive applied at a rate of 4560 ft ² /gal or Water Based Bonding Adhesive-P applied at a rate of 100-120 ft ² /gal.	-360.0
102 (C-24)			or Firestone I.S.O. Stick Adhesive applied in ¾”-1” wide ribbons spaced 12” o.c.			

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.