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Product Evaluation

RC195 | 0923

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: September 1, 2023
Re-evaluation Date: September 2027

Product Name: Elevate Modified Bitumen Roofing Systems

Manufacturer: Holcim Solutions and Products US, LLC
26 Century Blvd
Suite 205
Nashville, TN 37214
(800) 428-4511

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.
- **BASEGARD SA** is a fiberglass reinforced, SBS modified bitumen base sheet with a self-adhering bottom and sanded top surface.
- **Channel Venting Base** is an asphalt coated fiberglass base sheet with granules on the bottom**.**

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.
- **SBS PolyBase** is a polyester reinforced, SBS modified bitumen membrane with a sanded bottom and sanded top surface.
- **SBS Premium Poly Base** 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 burn off film bottom and granule top surface.
- **APP 180 P** is a polyester reinforced, APP modified bitumen membrane with a burn off film 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, consists 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.
- **GenFlex ISO Insulation** is a polyisocyanurate roof insulation.
- **Coated Glass Facer** is a polyisocyanurate roof insulation.
- **GenFlex HD ISO** is a polyisocyanurate roof insulation.
- **GenFlex HD Composite ISO** is a polyisocyanurate roof insulation.

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 Insulation 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 Elevate 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 R 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:

- **SA-Solvent Based (SB) Primer** is a solvent-based primer to prepare porous substrates to receive V-Force Vapor Barrier Membrane.
- **SA-LVOC Primer** is a solvent-based primer to prepare porous substrates to receive V-Force Vapor Barrier Membrane.
- **SA-Water Based (WB) Primer** is a polymer emulsion-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.
- **All-Purpose S 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" diameter, 0.017 to 0.023" thick galvalume stress plate for base sheet and insulation attachment.
- **Coiled Metal Batten Strip** is a 1" wide, 0.045 to 0.051" thick galvalume metal batten strip with pre-punched holes at 3" o.c. for base membrane attachment.
- **MAXX Cap Fastener** is a polymer injection-molded, perforated, 3" 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.
- **1.7" LWC Base Ply Fastener**
- **1.8" Twin Loc-Nails**
- **1.8" Two-Piece Impact Nail**
- **Straight Line Batten Bars**

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 ¼ 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 TDI appointed engineer. The TDI 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 TDI 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 TDI 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 TDI 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 TDI 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 Elevate 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 a minimum of 3/4" for steel decks, a minimum 1" for wood decks or fully penetrate into wood boards, and a minimum of 1 1/4" for concrete decks.

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 and the IBC.

CAP SHEET OPTIONS		
Option Number	**Cap Sheets**	**Attachment**
SBS-HA	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth, SBS Premium FR, 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 or SBS Premium FR Torch UltraWhite	Adhered with hot asphalt at a rate of 25-30 lbs/sq.
SBS-CA	SBS Glass, SBS Glass FR, SBS FR Cap, SBS Cap, SBS Premium, SBS Smooth, SBS Premium FR, 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 or SBS Premium FR Torch UltraWhite	Adhered with Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5 to 2 gal/sq.
SBS-TA	SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS FR Torch or SBS Premium FR Torch, 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 or SBS Premium FR Torch UltraWhite	Torch-applied
APP-TA	APP 160, APP 170, APP 170 COOL, APP 180, APP 180 FR, APP 180 UltraWhite or APP 180 FR UltraWhite	
APP-CA	APP 160 COOL, APP 170 COOL, APP 180 COOL, APP 180 FR UltraWhite, APP 180 FR COOL UltraWhite, APP Premium FR UltraWhite, APP 180 FR COOL or APP Premium FR	Adhered with Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.

PLY SHEET OPTIONS		
Option Number	**Ply Sheets**	**Attachment**
SBS-CA	SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth, SBS Premium Base or SBS Premium Poly Base	Adhered with Multi-Purpose MB Cold Adhesive or LiquiGard Membrane Adhesive at a rate of 1.5 to 2 gal/sq.
SBS-HA	SBS Base, Ply VI, SBS PolyBase, MB Base, SBS Smooth, SBS Premium Base or SBS Premium Poly Base	Adhered with hot asphalt at a rate of 25-30 lbs/sq.
SBS-TA	SBS Glass Torch Base, SBS Glass Torch Base 1.5, or SBS Poly Torch Base	Torch-applied
B-TA	BASEGARD SA	
APP-TA	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	
B-AC	BASEGARD SA	fully bonded by self-adhesive and thermally activated with a torch or hot asphalt applied cap sheet
B-SA	BASEGARD SA	Self-Adhered
APP-CA	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	Adhered with Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.

BASE SHEET OPTIONS		
Option Number	**Base Sheets**	**Attachment**
APP-TA1	APP 80 Glass Base	Torch-Adhered
APP-TA2	APP 80 Glass Base P	
APP-TA3	APP Premium Base	
APP-TA4	APP 160	
APP-TA5	APP 160 P	
APP-TA6	APP 160 Cool	
APP-TA7	APP 170	
APP-TA8	APP 170 Cool	
SBS-TA1	SBS Glass Torch Base	
SBS-TA2	SBS Glass Torch Base 1.5	
SBS-TA3	SBS Poly Torch Base	
SBS-TA4	SBS Smooth	
B-SA	BASEGARD SA	Self-Adhered
SBS-HA1	Ply IV	Fully bonded with ASTM D 312, Type IV asphalt
SBS-HA2	Ply VI	
SBS-HA3	MB Base	
SBS-HA4	SBS Base	
SBS-HA5	SBS Premium Base	
SBS-HA6	SBS PolyBase	
SBS-HA7	SBS Premium Poly Base	
SBS-HA8	SBS Smooth	
APP-CA1	APP 80 Glass Base COOL	Adhered in Multi-Purpose MB Cold Adhesive at a rate of 1.5-2 gal/sq.
APP-CA2	APP 160 COOL	
APP-CA3	APP 170 COOL	
APP-CA4	APP Premium Base	
SBS-CA1	SBS Base	
SBS-CA2	SBS PolyBase	
SBS-CA3	SBS Premium Base	
SBS-CA4	Type IV Felt	
SBS-CA5	Type VI Felt	
SBS-CA6	SBS Smooth Base	
SBS-CA7	MB Base	
SBS-CA8	SBS Base P	
SBS-CA9	SBS Premium Poly Base	
SBS-CA10	Ply VI	

Installation:

Name	Definition		
System	A – Fully adhered systems B – Adhered base insulation, mechanically fastened top insulation, adhered membrane C – Mechanically fastened insulation, adhered membrane D – Mechanically fastened membrane		
AP Fasteners & Plates	Elevate All-Purpose or All-Purpose S Fasteners and Insulation Fastening Plates		
HD Fasteners & Plates	Elevate Heavy Duty fasteners and Insulation Fastening Plates		
As Tested	Information provided to the report user based on the as tested condition of the roof system		
BASEGARD	One ply of BASEGARD SA. Shall only be used with ply applied in hot asphalt or by torch or UltraPly TPO XR membrane applied in hot asphalt only.		
CD Fasteners & Plates	Elevate Concrete Drive and Insulation Fastening Plates		
Cover Board	One layer of any of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime - Elevate ISOGARD HD -USG SECUROCK Glass-Mat Roof Board -USG SECUROCK Gypsum-Fiber Roof Board		
Deck Detail	As Tested deck construction details are described as follows:		
	Concrete Deck	Min. f'_c = 2,500 psi at 28 days	
	CWF Deck	Min. 2.5" thick Tectum I cementitious wood fiber panels	
	Steel Deck	Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0; 0.5% Vented for LWIC applications only. The following nomenclature is used to further describe the As Tested condition.	
		F<#>	<#> #12-24 HWH self-drilling screws or equivalent fastener at each flute used to secure the deck to the Structural supports; Min. 0.25" penetration
		G<#>	Min. Grade <#> of Steel Deck
		L<#>	Max. span of <#> ft
		P	Min. 5/8" diameter puddle welds at each flute used to secure the deck to the Structural supports
		S<#>	1/4"-14 HWH x 7/8" self-drilling screws or equivalent fastener secured <#>" o.c. along the panel side laps
		W	0.75" O.D. flat washer used with indicated fastener
	Wood Deck	APA Span-Rated plywood sheathing. The following nomenclature is used to further describe the As Tested condition.	
		T<#>	Min. <#>" thickness of the plywood
		L<#>	Max. span of <#> inches
		N<#>	Min. 0.113" diameter x 2-3/8" ring shank nails spaced <#>" o.c. at all intermediate supports and at the perimeter of each board
DensDeck	Min. 0.25" Georgia-Pacific DensDeck		
DensDeck Prime	Min. 0.25" Georgia-Pacific DensDeck Prime		
HD Fasteners & Plates	Elevate Heavy Duty Fasteners and Insulation Fastening Plates		

Name	Definition
Insulation	One of more layers in any combination of: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime - Elevate ISO 95+ GL - Elevate ISOGARD HD - Elevate ISOGARD HD Composite - Elevate RESISTA -USG SECUROCK Glass-Mat Roof Board -USG SECUROCK Gypsum-Fiber Roof Board
Insulation Adhesive	I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick Insulation Adhesive, or I.S.O. Fix II Adhesive
Insulation Adhesive II	I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick Insulation Adhesive, I.S.O. Fix II Adhesive, or I.S.O. Spray R
LWIC	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
MCRF	Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly
MDP	Maximum Design Pressure
Preliminarily Secured	Fastened at minimum rate of 5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board.
Recover	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e., recovering a previously recovered roof is not permitted. Recover roofing must conducted in compliance with the IBC. For mechanically fastened roof assemblies, the existing roof insulation thickness may be contributory in meeting the minimum insulation thickness requirements for a given assembly.
SECUROCK	Min. 0.25" USG SECUROCK Gypsum-Fiber Roof Board
V-Force	One ply of Elevate V-Force Vapor Barrier Membrane

Insulation Note: GenFlex ISO Insulation is equivalent to ISO 95+ GL, GenFlex HD ISO is equivalent to ISOGARD HD, GenFlex HD ISO Composite is equivalent to ISOGARD HD Composite, and Coated Glass Facer is equivalent to RESISTA

Table	Deck	Assembly No.	Application	Type	Description
1	Concrete	C-A1 to C-A26	New or Recover	A	Bonded Insulation, Bonded Roof Cover
2	Concrete	C-B1 to C-B3	New or Recover	B	Mechanically Fastened Base Insulation, Bonded Top Insulation, Bonded Roof Cover
3	Concrete	C-C1 to C-C8	New or Recover	C	Mechanically Fastened Insulation, Bonded Roof Cover
4	Concrete	C-D1 to C-D2	New or Recover	D	Loose Laid Insulation, Mechanically Fastened Base Sheet, Bonded Ply and Cap Sheets
5	Concrete	C-F1	New or Recover	F	Non-Insulated, Bonded Base, Ply, and Cap Sheets
6	LWIC	LWC-A1 to LWC-A8	New or Recover	A	Bonded Insulation, Bonded Roof Cover
7	LWIC	LWC-E1 to LWC-E9	New or Recover	E	Non-Insulated, Mechanicaly Fastened Base Sheet, Bonded Ply and Cap Sheets
8	Wood	W-A1	New or Recover	A	Bonded Insulation, Bonded Roof Cover
9	Wood	W-C1 to W-C2	New or Recover	C	Mechanically Fastened Insulation, Bonded Roof Cover
10	Wood	W-E1 to W-E12	New or Recover	E	Non-Insulated, Mechanicaly Fastened Base Sheet, Bonded Ply and Cap Sheets
11	Steel	S-A1	New or Recover	A	Bonded Insulation, Bonded Roof Cover
12	Steel	S-B1 to S-B6	New or Recover	B	Mechanically Fastened Base Insulation, Bonded Top Insulation, Bonded Roof Cover
13	Steel	S-C1 to S-C30	New or Recover	C	Mechanically Fastened Insulation, Bonded Roof Cover
14	Steel	S-D1 to S-D6	New or Recover	D	Loose Laid Insulation, Mechanically Fastened Base Sheet, Bonded Ply and Cap Sheets

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A1	Structural concrete	None	SECUROCK	Insulation Adhesive, 12" o.c.	APP-TA (1-8)	None	APP-TA	**-462.5**
C-A2	Structural concrete	None	SECUROCK	Insulation Adhesive II, 12" o.c.	SBS-HA (6, 8) or SBS-CA (2, 6)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-400**
					B-SA	**(Optional)** SBS-HA	SBS-HA	
					SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	
C-A3	Structural Concrete	None	Min. 1/2" thick ISO 95+ GL followed by min. 1/4'' thick SECUROCK	I.S.O. Stick, or I.S.O. Fix II, 6" or 12" o.c. or I.S.O. Twin Pack Insulation Adhesive, 12" o.c. (ISO 95+ GL only)	SBS-HA (1-6,8) or SBS-CA (1-5, 6, 7)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-347.5**
					SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	
					B-SA	**(Optional)** SBS-HA	SBS-HA	
C-A4	Structural concrete	None	Min. 1/2'' thick ISO 95+ GL, min. 1" thick ISO 95+ GL, followed by min. 1/4'' thick SECUROCK	I.S.O. Stick, 6" o.c. (ISO 95+ GL only), or 12" o.c. (SECUROCK only)	**(Optional)** SBS-CA (1-3, 6, 7, 10)	SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-317.5**
						SBS-TA	SBS-TA	
					(Optional) B-SA	SBS-TA	SBS-TA	
						SBS-HA	SBS-HA	
C-A5	Structural concrete (new)	None	Min. 1.5" thick ISO 95+ GL	Insulation Adhesive, spaced 8" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-300**
						None	APP-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A6	Structural Concrete, V-Force SB primer at 100 ft^2/gal	V-Force, self-adhered	One or more layers, min. 1/2'' thick ISO 95+GL followed by min. 1" thick ISO 95+ GL	I.S.O. Stick, ribbons 6" o.c.	B-SA	**(Optional)** SBS-HA	SBS-HA	**-287.5**
						(Optional) SBS-TA	SBS-TA	
C-A7	Structural concrete (new)	None	Min. 1/2'' thick ISOGARD HD	Insulation Adhesive II	B-SA	**(Optional)** SBS-TA	SBS-TA	**-255**
						None	APP-TA	
C-A8	Structural concrete (new)	None	Min. 1.5" ISO 95+ GL followed by Min. 1/2'' thick ISOGARD HD	I.S.O. Twin Pack Insulation Adhesive, 12" o.c.	B-SA	None	APP-TA or SBS-TA	**-255**
						(Optional) SBS-TA	SBS-TA	
C-A9	Structural concrete (new)	None	Min. 1.5" thick ISO 95+GL followed by Min. 1/2'' thick ISOGARD HD	I.S.O. Stick, 12" o.c.	B-SA	None	APP-TA	**-232.5**
C-A10	Structural Concrete (New)	None	Min. 1.5" thick RESISTA followed by **(Optional)** Min. 1/2'' thick RESISTA	Insulation Adhesive II	B-SA	**(Optional)** SBS-TA	SBS-TA	**-202.5**
						None	APP-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A11	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1/4'' thick SECUROCK	I.S.O. Fix II (ISO 95+ GL only), I.S.O. Twin Pack Insulation Adhesive (ISO 95+ GL only), or I.S.O. Stick, 12" o.c.	SBS-HA (1-6,8) or SBS-CA (1-5, 6, 7)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-175**
					SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	
					B-SA	**(Optional)** SBS-HA	SBS-HA	
C-A12	Concrete deck	None	Min. 1/2'' thick ISO 95+ GL followed by Min. 1/4'' thick DensDeck Prime	Insulation Adhesive	APP-TA (1-8)	**(Optional)** APP-TA	APP-TA	**-167.5**
					SBS-TA (1-3) or SBS-HA (1-8)	**(Optional)** SBS-CA, SBS-HA, or SBS-TA	SBS-CA, SBS-HA, or SBS-TA	
					B-SA thermally activated with a torch applied ply or cap sheet.	**(Optional)** SBS-CA, SBS-HA, SBS-TA, or APP-TA	SBS-CA, SBS-HA, SBS-TA, or APP-TA	
C-A13	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1/4'' thick SECUROCK	Hot-asphalt applied at a rate of 25-30 lbs/sq. or I.S.O. Spray R, spaced 12" o.c.	APP-CA (2-4)	**(Optional)** APP-CA	APP-CA or APP-TA	**-130**
					B-SA	None	APP-TA	
						(Optional) SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					SBS-HA (3-8), SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A14	Structural Concrete primed with Elevate SA Primer	BASEGARD SA, self-adhered	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/4'' thick DensDeck or DensDeck Prime	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, 8" o.c.	SBS-HA (3-6, 8)	**(Optional)** SBS-HA	SBS-HA	**-112.5**
					SBS-TA (1, 3, 4)	None	SBS-TA	
					APP-TA (2-4, 7, 8)	None	APP-TA	
C-A15	Structural Concrete primed with Elevate SA Primer	BASEGARD SA, self-adhered	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/2'' thick ISOGARD HD	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, 8" o.c.	B-SA or SBS-SA	None	SBS-TA	**-112.5**
							APP-TA	
C-A16	Structural concrete primed with ASTM D-41 primer	BASEGARD SA, self-adhered	One or more layers, min. 1.5" thick ISO 95+GL followed by min. 1/2'' thick ISOGARD HD	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, 8" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-112.5**
						None	APP-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A17	Structural Concrete	None	**(Optional)** min. 1.5″ ISO 95+ GL or min. 1/4'' thick Tapered ISO 95+ GL followed by Min. 1/4'' thick Tapered ISO 95+ GL	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R spaced 12″ o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-112.5**
						None	APP-TA	
C-A18	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1/4'' thick SECUROCK	I.S.O. Fix II (ISO 95+ GL only), I.S.O. Stick (ISO 95+ GL only) or I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, 12″	APP-CA (2-4)	**(Optional)** APP-CA	APP-CA or APP-TA	**-122.5**
					B-SA	None	APP-TA	
						(Optional) SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A19	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1/2'' thick ISOGARD HD	Insulation Adhesive II	APP-CA (2-4)	**(Optional)** APP-CA	APP-CA or APP-TA	**-110**
					B-SA	None	APP-TA	
						(Optional) SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	
C-A20	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1" thick ISO 95+ GL	Insulation Adhesive II	APP-CA (2-4)	**(Optional)** APP-CA	APP-CA or APP-TA	**-105**
C-A21	Structural Concrete	None	Min. 1/2'' thick ISO 95+ GL followed by min. 1" thick ISO 95+ GL	Insulation Adhesive II	B-SA	None	APP-TA	**-105**
						(Optional) SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A22	Structural Concrete primed with Elevate SA Primer or ASTM D-41 primer	BASEGARD SA, self-adhered	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/2'' thick ISOGARD HD or min. 2" ISOGARD HD Composite	I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick or I.S.O. Spray R	B-SA or SBS-SA	**(Optional)** SBS-TA	SBS-TA	**-90**
						None	APP-TA	
C-A23	Structural Concrete primed with Elevate SA Primer	BASEGARD SA, self-adhered	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/4'' DensDeck or DensDeck Prime	I.S.O. Stick or I.S.O. Spray R, 12" o.c.,	SBS-HA (3-6, 8)	**(Optional)** SBS-HA	SBS-HA	**-90**
					SBS-TA (1, 3, 4)	None	SBS-TA	
					APP-TA (2-4, 7, 8)	None	APP-TA	
C-A24	**(New)** Structural concrete primed with ASTM D-41 primer	SBS Poly Torch Base or SBS Glass Torch Base, torch-applied	One or more layers, min. 1.5" thick ISO 95+ GL followed by min. 1/4'' thick Dens Deck Prime	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, ribbons spaced 12" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-82.5**
						None	APP-TA	

Installation:

TABLE 1. NEW CONSTRUCTION or RECOVER CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Vapor Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-A25	Structural concrete primed with Elevate SA Primer	BASEGARD SA, self-adhered	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/4'' DensDeck or DensDeck Prime	I.S.O. Twin Pack Insulation Adhesive, ribbons spaced 8" o.c. or I.S.O. Stick or I.S.O. Spray R, ribbons 12" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-82.5**
						None	APP-TA	
C-A26	**(New)** Structural concrete	None	One or more layers of min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" thick ISO 95+ GL followed by Min. 1/2'' thick ISOGARD HD	I.S.O. Twin Pack Insulation Adhesive or I.S.O. Spray R, spaced 12" o.c.	SBS-CA (1-3, 6, 7)	None	SBS-CA	**-67.5**
					APP-CA (1-4)	None	APP-CA	

Installation:

TABLE 2. NEW CONSTRUCTION or RECOVER CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation		Top Insulation		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet and Attachment	Cap Sheet and Attachment	Design Pressure (psf)
C-B1	Structural concrete	Min. 2" thick ISO 95+ GL, with staggered joints	Mechanically fastened with HD Fasteners or CD fasteners & Plates. Fastened at a density of 1:1 ft^2	Min. 1/2'' thick ISOGARD HD	I.S.O. Twin Pack Insulation Adhesive, I.S.O. Fix II Adhesive, I.S.O. Stick or I.S.O. Spray S or I.S.O. Spray R, 4" o.c.	B-SA	SBS-HA, SBS-TA, or APP-TA	**-105**
C-B2	Structural concrete	Min. 2" thick ISO 95+ GL, with staggered joints	Mechanically fastened with HD Fasteners or CD Fasteners & Plates. Fastened at a density of 1:1 ft^2	Min. 1/2'' thick DensDeck Prime	I.S.O. Twin Pack Insulation Adhesive, I.S.O. Fix II Adhesive, I.S.O. Stick or I.S.O. Spray S or I.S.O. Spray R, 4" o.c.	B-SA	SBS-HA, SBS-TA, or APP-TA	**-67.5**

Installation:

TABLE 2. NEW CONSTRUCTION or RECOVER CONCRETE DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation		Top Insulation		Roof Cover		Design Pressure (psf)
		Type	Attachment	Type	Attachment	Base Sheet and Attachment	Cap Sheet and Attachment	
C-B3	Structural concrete	Min. 1/2'' thick DensDeck or DensDeck Prime	Mechanically fastened with HD Fasteners or CD Fasteners & Plates. Fastened at a density of 1:2 ft^2	Min. 1.5" thick ISO 95+ GL followed by **(Optional)** min. 1.5" ISO 95+ GL followed by Min. 1/4'' thick DensDeck Prime	Insulation Adhesive II	B-SA	APP-TA or SBS-TA	**-45**

Installation:

TABLE 3. NEW CONSTRUCTION OR RECOVER CONCRETE DECK, LOOSE LAID BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type and Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-C1	Structural concrete	Min. 1.5" thick ISO 95+ GL loose-laid	Min. 1/2'' thick SECUROCK	CD Fasteners & Plates or HD Fasteners & Plates, or Pre-Assembled HD Fasteners/Plates, or HD AccuTrac fastened at a density of 1.45 ft^2	SBS-CA (1-3, 8)	None	Cap Sheet SBS-CA	**-90**
C-C2	Structural concrete	**(Optional)** one or more base layers of insulation, loose laid	Min. 2" thick ISO 95+ GL, with staggered joints	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-67.5**
						None	APP-TA	
C-C3	Structural concrete	**(Optional)** DensDeck loose laid	Min. 2" thick ISO 95+ GL	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	APP-CA (2-4)	None	APP-CA	**-52.5**
					SBS-CA6	None	SBS-CA	
					SBS-CA (1-3)	None	SBS-CA	
C-C4	Structural concrete	**(Optional)** one or more base layers of insulation, loose laid	Min. 2" thick ISO 95+ GL	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:4 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-45**
						None	APP-TA	
C-C5	Structural concrete	**(Optional)** one or more base layers of insulation, min. 1.5" thick, loose-laid	DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-45**
						None	APP-TA	
C-C6	Structural concrete	Min. 1.5" thick ISO 95+ GL loose-laid	DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:4 ft^2	APP-TA (4, 7)	None	APP-TA	**-45**
					SBS-TA (1, 3)	None	SBS-TA	

Installation:

TABLE 3. NEW CONSTRUCTION OR RECOVER CONCRETE DECK, LOOSE LAID BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type and Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-C7	Structural concrete	Min. 1.5" thick ISO 95+ GL loose-laid	Min. 1/2'' thick DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	APP-CA1	None	APP-CA or APP-TA	**-37.5**
C-C8	Structural concrete	Min. 1.5" thick ISO 95+ GL loose-laid	Min. 1/2'' thick DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	SBS-CA (1-3)	None	SBS-CA or SBS-TA	**-30**

TABLE 4. NEW CONSTRUCTION OR RECOVER CONCRETE DECK, LOOSE LAID INSULATION, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
Assembly No.	Deck Detail	Insulation		Base Sheet		Roof Cover		Design Pressure (psf)
		Type	Attachment	Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-D1	Structural Concrete	Min. 1.5" thick ISO 95+ GL	Preliminary attachment	MB Base	CD Fasteners & Plates or HD Fasteners & Plates attached 12" o.c. at the 4" wide lap and 12" o.c. in two equally spaced, staggered rows in the field of the roll	None	SBS-CA or APP-CA	**-45**
C-D2	Structural concrete	Min. 1.5" thick ISO 95+ GL	Preliminary attachment	SBS Poly Base	CD Fasteners or HD Fasteners and 2" Barbed Seam Metal Plates attached 12" o.c. at the 4" wide lap and 12" o.c. in two equally spaced, staggered rows in the field of the roll	None	SBS-CA or APP-CA	**-45**

Installation:

TABLE 5. NEW CONSTRUCTION or RECOVER CONCRETE DECK, NON-INSULATED, BONDED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Deck Detail	Base Sheet		Roof Cover		Design Pressure (psf)
		Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
C-F1	Min. 2500 psi Structural concrete or concrete plank primed with ASTM D-41 Primer	BASEGARD SA	Self-adhered	None	SBS-TA APP-TA	**-135**

Installation:

TABLE 6. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Deck Detail	Vapor Barrier	LWC	Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	Design Pressure (psf)
LWC-A1	Structural Concrete	SBS Glass Torch Base, torch-applied to concrete deck	Min. 1/8" slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	SECUROCK	Insulation adhesive, 12" o.c.	SBS-HA (1-6, 8), SBS-CA (1-7)	**(Optional)** SBS-CA or SBS-HA	SBS-HA or SBS-CA	**-222.5**
						SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	
						B-SA	**(Optional)** SBS-HA	SBS-HA	
LWC-A2	Structural Concrete	None	Min. 1/8" slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	Min. 1" thick ISO 95+ GL or min. 1/4'' thick DensDeck Prime	I.S.O. Fix II (ISO 95+ GL only), I.S.O. Twin Pack Insulation Adhesive (ISO 95+ GL only), or I.S.O. Stick, spaced 12" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-177.5**
							(Optional) SBS-HA	SBS-HA	
LWC-A3	Structural Concrete	None	Min. 1/8" slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	Min. 1/2'' thick ISOGARD HD	Insulation Adhesive II, 12" o.c.	B-SA	**(Optional)** SBS-TA	SBS-TA	**-172.5**
							(Optional) SBS-HA	SBS-HA	

Installation:

TABLE 6. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Deck Detail	Vapor Barrier	LWC	Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	Design Pressure (psf)
LWC-A4	CWF	None	Min. 1/8" slurry coat, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	DensDeck Prime	I.S.O. Stick, spaced 12" o.c.	SBS-HA (1-6, 8), SBS-CA (1-7)	**(Optional)** SBS-CA or SBS-HA	SBS-HA or SBS-CA	**-145**
						SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	
						B-SA	**(Optional)** SBS-HA	SBS-HA	
LWC-A5	Structural Concrete	None	Min. 1/8" slurry coat of min. 300 psi, Elastizell Cellular Lightweight Concrete followed by 1" EPS board and a 2" topcoat.	Min. 1/2'' thick ISOGARD HD or min. 1/4'' thick DensDeck Prime	I.S.O. Stick (DensDeck only), or I.S.O. Twin Pack Insulation Adhesive (ISOGARD HD only), spaced 12" o.c.	None	SBS-CA	SBS-CA or SBS-HA	**-144.5**
LWC-A6	Structural Concrete	None	Min. 1/8" slurry coat of min. 400 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	SECUROCK	Insulation Adhesive, 12" o.c.	SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	**-127.5**
						SBS-HA (1-6, 8), SBS-CA (1-6)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						B-SA	**(Optional)** SBS-HA	SBS-HA	

Installation:

TABLE 6. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER									
Assembly No.	Deck Detail	Vapor Barrier	LWC	Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	Design Pressure (psf)
LWC-A7	Structural Concrete	None	Min. 1/8″ slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1″ EPS board and a 2″ topcoat. Celcore PVA curing compound is applied at 300 ft^2/gal.	Min. 1/2'' thick ISOGARD HD or min. 1/4'' thick DensDeck Prime	I.S.O. Stick (DensDeck only), or I.S.O. Twin Pack Insulation Adhesive (ISOGARD HD only), 12″ o.c.,	None	SBS-CA	SBS-CA or SBS-HA	**-102.5**
LWC-A8	Structural Concrete	None	Min. 1/8″ slurry coat of min. 200 psi, Cellular Lightweight Concrete followed by 1″ EPS board and a 2″ topcoat applied after overnight cure.	Min. 1/2'' thick ISOGARD HD or min. 1/4'' thick DensDeck Prime	I.S.O. Stick (DensDeck only), or I.S.O. Twin Pack Insulation Adhesive (ISOGARD HD only), 12″ o.c.,	None	SBS-CA	SBS-CA or SBS-HA	**-72.5**

Installation:

TABLE 7. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, NON- INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Deck Detail	LWIC	Base Sheet		Roof Cover		Design Pressure (psf)
			Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
LWC-E1	Steel (G33, L6, P, S18)	Min. 1/4'' slurry coat of min. 300 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 0.33 gal/sq.	MB Base, SBS Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Premium, SBS Smooth, SBS Poly Torch Base, or SBS Poly Base with 3.4" wide side laps.	M**e**chanically fastened with 1.7" LWC Base Ply Fasteners attached 7" o.c. at the lap and 7" o.c. in two equally spaced, staggered rows in the field of the roll	SBS-TA, SBS-HA, SBS-CA, B-AC	SBS-CA or SBS-TA	**-75**
LWC-E2	Steel (G33, L6, P, S18)	Min. 1/4" slurry coat of min. 360 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 0.33 gal/sq.	Channel Venting Base, SBS base, SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Poly Torch Base	Mechanically fastened with Elevate Two-Piece Impact Nail (1.8") fastened 7" o.c. in the 3.4" wide laps and 7" o.c. in two (2) equally spaced and staggered rows in the field of the roll	B-SA	SBS-TA	**-67.5**
LWC-E3	Steel (F, G33, L5, S12, W)	Min. 1/8" slurry coat of min. 200 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 0.33 gal/sq.	MB Base, SBS Base, SBS Base P, SBS Premium Base, SBS Smooth, SBS Poly Base	Mechanically fastened with Elevate LWC Base Ply Fasteners (1.7")	SBS-TA	SBS-TA	**-60**

Installation:

TABLE 7. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, NON- INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Deck Detail	LWIC	Base Sheet		Roof Cover		Design Pressure (psf)
			Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
LWC-E4	Steel (G33, L5, F, W, S12)	Min. 1/8" slurry coat of min. 200 psi, Cellular Lightweight Concrete followed by 1" EPS board and a 2" topcoat applied after overnight cure.	MB Base, SBS Base, SBS Glass Torch Base, SBS Premium Base, SBS smooth, SBS Poly Torch Base, or SBS Poly Base	mechanically fastened with Elevate LWC Base Ply Fasteners (1.7″) fastened 7″ o.c. in the 3″ wide laps and 7″ o.c. in two (2) equally spaced and staggered rows in the field of the roll	**(Optional)** SBS-CA, SBS-HA	SBS-CA or SBS-HA	**-60**
					(Optional) SBS-TA	SBS-TA	
LWC-E5	Steel (G33, P, L6, S18)	Min. 1/4'' slurry coat of min. 380 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1″ EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 0.33 gal/ sq.	MB Base, SBS Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Premium, SBS Smooth, SBS Poly Torch Base, or SBS Poly Base with 3.4″ wide side laps.	M**e**chanically fastened with 1.7″ LWC Base Ply Fasteners attached 8″ o.c. at the lap and 8″ o.c. in two equally spaced, staggered rows in the field of the roll	SBS-TA, SBS-HA, SBS-CA, B-AC	SBS-CA or SBS-TA	**-60**
LWC-E6	Steel (G33, L6, P, S6, W)	Min. 1/8″ slurry coat, Mearlcrete Lightweight Concrete with 1″ EPS board and a 2″ topcoat.	SBS Poly Torch Base	Mechanically fastened with ES FM-290V fastened 7″ o.c. in the 4″ wide laps	**(Optional)** SBS-TA	SBS-TA	**-45**
					(Optional) APP-TA	APP-TA	
LWC-E7	Steel (G33, L5, P, S12)	Min. 1/4'' slurry coat of min. 210 psi, Cellular Lightweight Concrete composed of Elastizell Foam Agent, Zell-Crete Fibers, Portland cement followed by 1" EPS board and a 2" topcoat applied after overnight cure.	SBS Base, SBS Glass Torch Base, SBS Smooth, SBS Premium Base, SBS Poly Base or SBS Poly Torch Base with 3″ wide side laps.	M**e**chanically fastened with 1.7″ LWC Base Ply Fasteners attached 9″ o.c. at the lap and 9″ o.c. in two equally spaced, staggered rows in the field of the roll	B-SA	SBS-HA, SBS-TA, or APP-TA	**-45**

Installation:

TABLE 7. NEW CONSTRUCTION or RECOVER LIGHTWEIGHT CONCRETE DECK, NON- INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Deck Detail	LWIC	Base Sheet		Roof Cover		Design Pressure (psf)
			Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
LWC-E8	Steel (G33, L5, P, S12)	Min. 1/8" slurry coat of min. 402 psi, Cellular Lightweight Concrete composed of Elastizell Foam Agent, Zell-Crete Fibers, Portland cement followed by 1" EPS board and a 2" topcoat applied after overnight cure.	SBS Poly Torch Base with 4" wide side laps.	Mechanically fastened with 1.8" Twin Loc-Nails and Straight-Line Batten Bars 6" o.c. within the side laps	None	SBS-TA	**-45**
LWC-E9	Steel (G33, L5, P, S18)	Min. 1/4'' slurry coat of min. 294 psi, Celcore MF Cellular Lightweight Concrete with Celcore HS Rheology Modifying Admixture followed by 1" EPS board and a 2" topcoat. Celcore PVA curing compound is applied at 0.33 gal/sq.	SBS Poly Base with 3.4" wide side laps	Mechanically fastened with 1.7" LWC Base Ply Fasteners attached 9" o.c. at the lap and 9" o.c. in two equally spaced, staggered rows in the field of the roll	SBS-TA, SBS-HA, SBS-CA, B-SA	SBS-CA or SBS-TA	**-37.5**

Installation:

TABLE 8. NEW CONSTRUCTION or RECOVER WOOD DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Deck Detail	Insulation Layers		Roof Cover			Design Pressure (psf)
		Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
W-A1	CWF	Min. 1/2'' thick ISO 95+ GL followed by min. 1/4'' thick SECUROCK	I.S.O. Stick, 12" o.c.	SBS-HA (2-6, 8), SBS-CA (1, 2, 6, 7, 10)	SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-202.5**
				SBS-TA (1 or 3) or B-SA	SBS-TA	SBS-TA	
				B-SA	SBS-HA	SBS-HA	

TABLE 9. NEW CONSTRUCTION OR RECOVER WOOD DECK, LOOSE LAID BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type and Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
W-C1	Wood (T19/32, L24, N6)	**(Optional)** one or more base layers of insulation, loose laid	Min. 1.5" thick RESISTA or min. 0.5" thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:78 ft^2	B-SA	**(Optional)** SBS-HA	SBS-HA	**-75**
						(Optional) SBS-TA	SBS-TA	
						None	APP-TA	

Installation:

TABLE 9. NEW CONSTRUCTION OR RECOVER WOOD DECK, LOOSE LAID BASE INSULATION, MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type and Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
W-C2	Wood (T19/32)	**(Optional)** one or more base layers of insulation, loose laid	Min. 1.5" thick ISO 95+ GL, RESISTA, or ISOGARD HD Composite, or min. 0.5" DensDeck Prime or SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.67 ft^2	B-SA	**(Optional)** SBS-HA	SBS-HA	**-45**
						(Optional) SBS-TA	SBS-TA	
						None	APP-TA	

Installation:

Table 10. NEW CONSTRUCTION OR RECOVER WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Deck Detail	Base Sheet		Roof Cover		Design Pressure (psf)
		Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
W-E1	Wood (CDX, T15/32)	MB Base	Simplex MAXX Cap fasteners fastened 6" o.c.in the 2" lap and 6" o.c. in three (3) equally spaced and staggered rows in the field of the roll	None	APP-TA	**-105**
W-E2	Wood (CDX, T15/32)	MB Base, SBS Base, SBS Poly Base	Simplex MAXX Cap fasteners fastened 6" o.c. in the 2" lap and 6" o.c. in three (3) equally spaced and staggered rows in the field of the roll	None	SBS-HA or SBS-TA	**-105**
W-E3	Wood (T19/32, L24, N6)	SBS Base	12 ga. x 1-1/4" ring shank nails through 32 ga. x 1-5/8" tin caps fastened 6" o.c. in the 3" lap and 6" o.c. in three (3) equally spaced and staggered rows in the field of the roll	SBS-CA	SBS-CA	**-97.5**
				SBS-TA	SBS-TA	
W-E4	Wood (CDX, T15/32)	MB Base	Simplex MAXX Cap fasteners fastened 6" o.c.in the 2" lap and 6" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	APP-TA	**-90**
W-E5	Wood (CDX, T15/32)	MB Base, SBS Base, SBS Poly Base	Simplex MAXX Cap fasteners fastened 6" o.c. in the 2" lap and 6" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	SBS-HA or SBS-TA	**-90**
W-E6	Wood (T19/32, L24, N6)	MB Base	AP Fasteners with Insulation Fastening plates fastened 12" o.c. in the 2" lap and 12" o.c. in two (2) equally spaced and staggered rows in the field of the roll	SBS-HA, B-SA	SBS-HA	**-75**
				SBS-TA	SBS-TA	
W-E7	Wood (T19/32, L24, N6)	MB Base	min. 1.25" long AP fasteners and 3" diameter plates fastened 12" o.c. in the 3.5" lap and 12" o.c. in two (2) equally spaced and staggered rows in the field of the roll	**(Optional)** SBS-CA, SBS-HA	SBS-CA	**-60**
				(Optional) SBS-TA	SBS-TA	
W-E8	Wood (T19/32, L24, N6)	MB Base	12 ga. x 1-1/4" ring shank nails through 32 ga. x 1-5/8" tin caps fastened 9" o.c. in the 2" lap and 9" o.c. in three (3) equally spaced and staggered rows in the field of the roll	SBS-HA, B-SA	SBS-HA	**-52.5**
				SBS-TA	SBS-TA	

Installation:

Table 10. NEW CONSTRUCTION OR RECOVER WOOD DECK, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER						
Assembly No.	Deck Detail	Base Sheet		Roof Cover		Design Pressure (psf)
		Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
W-E9	Wood (CDX, T15/32)	MB Base	Simplex MAXX Cap fasteners fastened 9" o.c.in the 2" lap and 12" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	APP-TA	**-52.5**
W-E10	Wood (CDX, T15/32)	MB Base, SBS Base, SBS Poly Base	Simplex MAXX Cap fasteners fastened 9" o.c. in the 2" lap and 12" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	SBS-HA, SBS-TA	**-52.5**
W-E11	Wood (CDX, T15/32)	MB Base	Simplex MAXX Cap fasteners fastened 9" o.c.in the 2" lap and 18" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	APP-TA	**-45**
W-E12	Wood (CDX, T15/32)	MB Base, SBS Base, SBS Poly Base	Simplex MAXX Cap fasteners fastened 9" o.c. in the 2" lap and 18" o.c. in two (2) equally spaced and staggered rows in the field of the roll	None	SBS-HA, SBS-TA	**-45**

TABLE 11. NEW CONSTRUCTION or RECOVER STEEL DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Thermal Barrier and Attachment	Insulation Layers		Roof Cover			Design Pressure (psf)
			Insulation	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-A1	Steel (G33, L5, F, S20)	Min. 1/2'' thick DensDeck Prime adhered with I.S.O. Stick in continuous 1" wide ribbons	Min. 1.5" thick ISO 95+ GL, min. 1/2'' thick ISO 95+ GL or RESISTA, followed by min. 2" thick ISO 95+ GL	Hot Asphalt at a rate of 20-40 lbs/sq.	**(Optional)** SBS-HA (1-8)	SBS-HA	SBS-HA	**-52.5**
						SBS-TA	SBS-TA	

TABLE 12. NEW CONSTRUCTION or RECOVER STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
Assembly No.	Deck Detail	Base Insulation		Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-B1	Steel (G33, L6) (New)	Min. 2" thick ISO 95+ GL,	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1 ft^2	Min. 1/2'' thick ISOGARD HD or	Insulation Adhesive II, 4" o.c.	B-SA	None	SBS-HA, SBS-TA, APP-TA	**-105**
S-B2	Steel (G33, L6) (New)	Min. 2" thick ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1 ft^2	Min. 1/2'' thick DensDeck Prime	Insulation Adhesive II, 4" o.c.	B-SA	None	SBS-HA, SBS-TA, APP-TA	**-67.5**
S-B3	Steel (G33, L6, P, S24)	Min. 2" thick ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.6 ft^2	Min. 1/2'' thick ISO 95+ GL or SECUROCK	I.S.O. Stick or I.S.O. Spray R, 6" o.c.	SBS-CA (1-3, 6, 10)	**(Optional)** SBS-CA	SBS-CA	**-67.5**
						B-SA, SBS-CA (1-3, 6, 7, 10)	**(Optional)** SBS-HA	SBS-HA	
						SBS-TA (1, 3) or B-SA	**(Optional)** SBS-TA	SBS-TA	

Installation:

TABLE 12. NEW CONSTRUCTION or RECOVER STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
Assembly No.	Deck Detail	Base Insulation		Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Attachment	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-B4	Steel (G33, L6, F, S24)	Min. 1.5" thick ISO 95+ GL or RESISTA	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1: 1.6 ft^2	Min. 1/2'' thick DensDeck Prime or SECUROCK	I.S.O. Twin Pack Insulation Adhesive (only with DensDeck Prime), I.S.O. Fix II or I.S.O. Stick or I.S.O. Spray R, 6" o.c.	SBS-CA (1, 3)	**(Optional)** SBS Base or SBS Premium Base in Multi-Purpose MB Cold Adhesive	SBS-CA	**-52.5**
							(Optional) SBS Poly Base or SBS Smooth in Multi-Purpose MB Cold Adhesive	SBS-HA, SBS-TA	
						SBS-CA (1, 2, 6)	None	SBS-HA, SBS-CA, SBS-TA	
						B-SA	**(Optional)** SBS-HA, SBS-TA	SBS-HA, SBS-TA	
S-B5	Steel (G33)	Min. 1/2'' thick DensDeck or DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2 ft^2	Min. 1.5" thick ISO 95+ GL followed by Min. 1/4'' thick DensDeck Prime	Insulation Adhesive II	B-SA	None	APP-TA or SBS-TA	**-45**
S-B6	Steel (G33, L6, P, S24)	Min. 1.5" thick ISO 95+ GL or RESISTA	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.78 ft^2	Min. 1/2'' thick ISOGARD HD	Insulation Adhesive II, 12" o.c	APP-CA (2-4)	**(Optional)** APP-CA	APP-CA or APP-TA	**-45**
						B-SA	None	APP-TA	
							(Optional) SBS-HA	SBS-HA	
							(Optional) SBS-TA	SBS-TA	
						SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
							(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C1	Steel (G80, L6, supports Traxx/5 6″ o.c., W, laps Traxx/1 12″ o.c.)	Min. 1.5″ thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates, or Pre-Assembled Fasteners/Plates, Pre-Assembled HD Fasteners/Plates, AP AccuTrac and HD AccuTrac fastened at a density of 1:1.0 ft^2	SBS-TA (1, 3, 4)	None	SBS-TA	**-150**
S-C2	Steel (G33, L6)	Min. 1″ thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates at a density of 1:1.78 ft^2	APP-CA (2, 3)	None	APP-CA	**-90**
					APP-TA1	None	APP-TA	
S-C3	Steel (G33, L6)	Min. 2″ thick ISO 95+ GL or ISOGARD HD Composite	**(Optional)** Min. 1/2'' thick SECUROCK or DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates at a fastener density of 1:1.78 ft^2	APP-CA (2, 3)	None	APP-TA	**-90**
S-C4	Steel (G80, L6, supports Traxx/5 6″ o.c., W, laps Traxx/1 30″ o.c.)	Min. 1.5″ thick ISO 95+ GL loose-laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates or Pre-Assembled Fasteners/Plates, Pre-Assembled HD Fasteners/Plates, AP AccuTrac and HD AccuTrac fastened at a density of 1.5 ft^2	SBS-CA (1-3, 8)	None	SBS-CA	**-90**
S-C5	Steel (G33, L6, P, S24)	Min. 1″ thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.6 ft^2	APP-CA (2, 3)	None	APP-CA	**-82.5**
					APP-TA1		APP-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C6	Steel (G33, L6, S24)	**(Optional)** One or more base layers of insulation, loose laid	Min 2.2" ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:33 ft^2	B-SA	**(Optional)** SBS-HA	SBS-HA	**-82.5**
						None	APP-TA	
S-C7	Steel (G33, L6)	Min. 1" thick ISO 95+ GL or RESISTA, loose laid	SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.78 ft^2	SBS-TA (1, 3)	**(Optional)** SBS-TA	SBS-TA	**-75**
S-C8	Steel (G33, L6, F, S24)	**(Optional)** One or more layers, any combination, loose laid	Min. 1.5" thick ISOGARD HD Composite, long joints staggered 4 ft	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1: 1.78 ft^2	SBS-CA (1-3, 6, 7)	**(Optional)** SBS-CA	SBS-CA	**-75**
S-C9	Steel (G33, L6, F, S24)	**(Optional)** One or more layers, any combination, loose laid	Min. 1.5" thick ISOGARD HD Composite, long joints staggered 4 ft	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1: 1.78 ft^2	B-SA	**(Optional)** SBS-HA	SBS-HA	**-75**
		Min. 1" thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick SECUROCK			**(Optional)** SBS-TA	SBS-TA	
S-C10	Steel (G33, L6, P, S24)	One or more base layers of insulation, min. 2" thick, loose-laid	Min. 1/2'' thick DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	B-SA	**(Optional)** SBS-HA	SBS-HA	**-75**
						(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C11	Steel (G33)	One or more layers, min. 1/2'' thick ISO 95+ GL, loose laid	Min. 1" thick RESISTA or min. 1/2'' thick DensDeck Prime or SECUROCK, long joints staggered 4 ft	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1: 1.6 ft^2	SBS-CA (1-3, 6, 7)	**(Optional)** SBS-CA	SBS-CA	**-67.5**
					B-SA	**(Optional)** SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
S-C12	Steel (G33)	**(Optional)** one or more base layers of insulation, loose-laid	Min. 2" thick ISO 95+ GL, with staggered joints	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-67.5**
						None	APP-TA	
S-C13	Steel (G33, L6, F, S24)	Min. 1" thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick DensDeck Prime or SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	APP-TA3	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-67.5**
					SBS-TA (1, 3)	**(Optional)** SBS-TA	SBS-TA	
S-C14	Steel (G33, L6, F, S24)	Min. 1" thick ISO 95+ GL or RESISTA, loose laid	SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.78 ft^2	APP-TA3	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-67.5**
					B-SA	**(Optional)** SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C15	Steel (G33, L6, P)	Min. 1.5" thick ISO 95+ GL, loose laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	SBS-CA1	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	**-60**
						(Optional) SBS-TA	SBS-TA	
						(Optional) B-TA		
S-C16	Steel (G33, L6, P, S24)	Min. 1" thick ISO 95+ GL or RESISTA, loose-laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.13 ft^2	APP-CA4	**(Optional)** APP-CA	APP-CA	**-60**
							APP-TA	
					B-SA	None	APP-TA	
					SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					B-SA	**(Optional)** SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
S-C17	Steel (G33, L6, P, S24)	Min. 1/2'' thick ISO 95+ GL or RESISTA, loose laid	Min. 1/2'' thick SECUROCK	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.78 ft^2	B-SA	None	SBS-HA, SBS-TA, SBS-CA	**-60**

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C18	Steel (G33, L6, P, S24)	**(Optional)** One or more base layers of insulation, loose laid	Min. 2" thick ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.78 ft^2	SBS-CA1	**(Optional)** SBS-CA, SBS-HA, SBS-TA, B-TA	SBS-CA or SBS-TA	**-60**
					B-SA	**(Optional)** SBS-HA	SBS-HA	
						(Optional) SBS-TA	SBS-TA	
						None	APP-TA	
S-C19	Steel (G33, L6, P, S24)	None	Min. 2" thick ISOGARD HD Composite	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of1:4.0 ft^2	APP-CA (2, 3)	None	APP-CA	**-52.5**
S-C20	Steel (G33, L6, P, S24)	None	Min. 2" thick ISOGARD HD Composite	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.67 ft^2	APP-TA (1-8)	None	APP-TA	**-52.5**
S-C21	Steel (G33, L6)	**(Optional)** Min. 1/4'' thick DensDeck loose laid	Min. 2" thick ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	APP-CA1	None	APP-CA	**-52.5**
					SBS-CA6	None	SBS-CA	
					SBS-CA (1-3)	None	SBS-CA, APP-CA, APP-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C22	Steel (G33, L6, P, S24)	Min. 2.5″ thick ISO 95+ GL	None	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.13 ft^2	APP-CA4	**(Optional)** SBS-CA	APP-TA	**-52.5**
							APP-CA	
					SBS-CA (1-3, 6, 7, 9)	**(Optional)** SBS-CA or SBS-HA	SBS-CA or SBS-HA	
						(Optional) SBS-TA	SBS-TA	
					B-SA	SBS-HA	SBS-HA	
						SBS-TA	SBS-TA	
						None	APP-TA	
S-C23	Steel (G33, L6, F, S24)	Min. 1″ thick ISO 95+ GL loose-laid	Min. 1/2′′ thick ISOGARD HD	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	SBS-CA (1-3, 6, 7)	None	SBS-CA, SBS-TA, SBS-HA	**-52.5**
					B-SA	None	SBS-HA, SBS-TA	
S-C24	Steel (G33, P, S24 L6)	Min. 2″ thick ISO 95+ GL or ISOGARD HD Composite	**(Optional)** Min. 1/2′′ thick SECUROCK or DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.67 ft^2	APP-CA (2, 3)	None	APP-CA	**-45**
S-C25	Steel (G33)	**(Optional)** one or more base layers of insulation, loose-laid	Min. 2.2″ thick ISO 95+ GL	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:4 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-45**
						None	APP-TA	
S-C26	Steel (G33)	**(Optional)** one or more base layers of insulation, min. 1.5″ thick, loose-laid	DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-45**
						None	APP-TA	

Installation:

TABLE 13. NEW, EXISTING, OR RECOVER CONSTRUCTION STEEL DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck Detail	Base Insulation	Top Insulation		Roof Cover			Design Pressure (psf)
		Type	Type	Attachment	Base Sheet and Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-C27	Steel (G33)	Min. 1.5" thick ISO 95+ GL loose-laid	DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:4 ft^2	APP-TA (4, 7)	None	APP-TA	**-45**
					SBS-TA (1, 3)	None	SBS-TA	
S-C28	Steel (G33)	One or more base layers of insulation, Min. 1.5" thick, loose-laid	Min. 1/2'' thick ISOGARD HD	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:2.67 ft^2	B-SA	**(Optional)** SBS-TA	SBS-TA	**-45**
						None	APP-TA	
					SBS-CA (1-3, 6, 7)	None	SBS-CA	
							APP-CA	
S-C29	Steel (G33)	Min. 1.5" thick ISO 95+ GL loose-laid	Min. 1/2'' thick DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	SBS-CA (1-3), APP-CA1	None	APP-CA or APP-TA	**-37.5**
S-C30	Steel (G33)	Min. 1.5" thick ISO 95+ GL loose-laid	Min. 1/2'' thick DensDeck Prime	AP Fasteners & Plates or HD Fasteners & Plates fastened at a density of 1:1.33 ft^2	SBS-CA (1-3), APP-CA1	None	SBS-CA or SBS-TA	**-30**

Installation:

TABLE 14. NEW CONSTRUCTION or REROOF (Tear-Off) STEEL DECK, LOOSE-LAID INSULATION, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
Assembly No.	Deck Detail	Insulation	Base Sheet		Roof Cover		Design Pressure (psf)
			Type	Attachment	Ply Sheet and Attachment	Cap Sheet and Attachment	
S-D1	Steel (G33, L6, supports Traxx/5 6" o.c., laps Traxx/1 30" o.c.)	Min. 1.5" thick ISO 95+ GL	SBS Poly Torch Base	HD fasteners and 1" wide Elevate Coiled Metal Batten Strips with a min. thickness of 0.046" fastened 12" o.c. in the 4" wide laps	None	SBS-HA, SBS-TA	**-67.5**
S-D2	Steel (G33)	Min. 1.5" thick ISO 95+ GL	SBS Poly Base	AP Fasteners and MB 2" Barbed Metal Seam Plates	None	SBS-TA	**-60**
S-D3	Steel (G33, L6, F, S24)	Min. 1" thick ISO 95+ GL	SBS Base, SBS Glass Torch Base, SBS Premium Base, SBS Poly Base, SBS Poly Torch Base or SBS Smooth	AP Fasteners & Plates or HD Fasteners & Plates fastened 12" o.c.in the 3" wide laps and 12" o.c. in two (2) equally spaced and staggered rows in the field of the roll	B-SA, SBS-TA	SBS-HA, SBS-TA	**-60**
S-D4	Steel (G33, L6, F, S12)	Min. 1.5" thick ISO 95+ GL	SBS Poly Base	HD Fasteners and 1" wide Elevate Coiled Metal Batten Strips with a min. thickness of 0.046". Fastened 18" o.c. in the 3" wide lap	B-SA, SBS-HA	SBS-HA	**-52.5**
					SBS-TA	SBS-TA	
S-D5	Steel (G33)	Min. 1.5" thick ISO 95+ GL	MB Base	AP Fasteners & Plates or HD Fasteners & Plates attached 12" o.c. at the 4" wide lap and 12" o.c. in two equally spaced, staggered rows in the field of the roll	None	SBS-CA or APP-CA	**-45**
			SBS Poly Base	AP Fasteners or HD Fasteners and 2" Barbed Seam Metal Plates applied 12" o.c. within the 4" wide laps.			
S-D6	Steel Deck	Min. 1.5" thick ISOGARD HD Composite	SBS Poly Base	HD Fasteners with 1" wide Coiled Metal Batten Strips fastened 24" o.c. in the 3" wide laps.	B-SA, SBS-HA	SBS-HA	**-45**
					SBS-TA	SBS-TA	