



VERSICO
ROOFING SYSTEMS
Code Approval Guide

November 2025

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Versico Roofing Systems

A Division of Carlisle Construction Materials, LLC

CODE APPROVAL GUIDE

November 2025

INTRODUCTION

This Code Approval Guide addresses both general information pertaining to Underwriters Laboratories (UL) and FM Approvals test criteria as well as specific UL and FM code approvals achieved with Versico's Design "A" Adhered, Design "B" Ballasted and Mechanically-Fastened EPDM Roofing Systems. In addition, various independent test laboratory results along with national building code approvals are also identified in this guide. Code approvals available with Versico's VersiFleece, Hot Mopped, VersiFlex and VersiWeld Roofing Systems are identified in separately published Code Approval Guides.

Code ratings are categorized by roof system type (Adhered, Ballasted, Mechanically-Fastened) and are separated into 2 sections; UL Approvals and FM Approvals. Underwriters Laboratories rated roof assemblies are grouped according to deck type (non-combustible or combustible) and are further categorized by the severity of fire exposure (Class A, B or C). FM Approval assemblies are categorized according to deck type and the specific type of construction (new, tear-off or retrofit). These ratings can also be found at the FM Approvals web site using RoofNAV (free subscription) at <http://roofnav.fmglobal.com/roofnav/login.aspx>.

The listed assemblies contained in this guide are grouped generically based on deck classification. Specific substrate requirements for each Versico Roofing System can be identified in the respective Versico Specifications.

In the UL and FM Approvals throughout this guide, when multiple layers of insulation are referenced, the product listed first identifies the insulation directly below the membrane. For example; a listing of Recovery Board/Polyisocyanurate indicates the Recovery Board is installed directly under the membrane. A listing of Gypsum Board/Polystyrene indicates the Gypsum Board is installed directly under the membrane.

The Table of Contents on the previous pages identifies the sections contained in this publication.

General Guidelines for Underwriters Laboratories and FM Approvals Code Compliance

These guidelines are intended to focus on the essential criteria to be followed when an Underwriters Laboratories (UL) and/or FM Approvals (FM) approved assembly is specified. Generally, the Versico published specifications reflect the minimum requirements necessary to obtain the applicable Versico warranty. Code requirements are not specifically covered in the Versico specifications and are considered to be above and beyond the provisions of the Versico warranty.

Individuals specifying an approved assembly or selecting various products to achieve a specific UL/FM rating must recognize the importance of ensuring proper component selection to fully comply with the most current listings published. **All materials used in the roofing system must be UL and/or FM approved and must have been tested together as part of a complete roofing assembly.**

In addition to the code approval listings in this guide, information pertaining to approved assemblies can also be referenced in the following directories:

1. *Underwriters Laboratories On-Line Certifications Directory* (<https://iq.ulprospector.com/en>)
2. *FM Approvals RoofNav website* (roofnav.com). FM RoofNav assembly numbers can be obtained from this website.

Underwriters Laboratories, FM Approvals and ANSI/SPRI WD-1 Clarifications/Enhancements

UNDERWRITERS LABORATORIES:

1. The criteria required to obtain **UL external fire ratings** (Class A, B or C) can be identified in this guide or can be searched for on the UL website using the UL category code TGFU. UL ratings approved for use on combustible decks are also acceptable on non-combustible decks.
2. For UL internal fire ratings (hourly constructions - P Numbers), search the UL website using the UL category code BXUV.

FM APPROVALS:

Uplift ratings listed in this guide are for the field of the roof. Additional requirements/enhancements are required by FM in the perimeter and corner areas, for deck securement and for perimeter nailer/edge attachment. Refer to FM Property Loss Prevention Data Sheets 1-28, 1-29 and 1-49 for specific requirements. On FM insured projects, the local FM insuring agent **MUST** review and approve the proposed roofing assembly prior to installation. When FM is not the insuring entity for the building, use the **Approved American National Standard ANSI/SPRI WD-1** for design purposes.

Note: All Versico Roof Systems referenced within this document meet Class 1 construction and Severe Hail (SH) ratings.

APPROVED AMERICAN NATIONAL STANDARD ANSI/SPRI WD-1:

The ANSI/SPRI Wind Design Standard Practice for Roofing Assemblies should be referenced when a project is not FM insured. This document was developed as a consensus National Standard and provides a methodology for designing for wind uplift resistances of roofing system assemblies. Insulation fastening patterns are included in this document. The fastening patterns are approved for use by Versico.

RECOVER

Recover approvals in this document are based on the following existing roofing system assumption - the existing Smooth Asphalt BUR, Modified Bitumen or single-ply system was FM approved at the time of installation.

SUMMARY

Due to complexity of the code documents and the variety of information that must be reviewed, it is important to consult with Versico and other respective manufacturers concerning the most current available approvals.

- **Prior to project bid** - Products specified by the architect must be thoroughly investigated to determine if the specified rating can be achieved and local building codes must be consulted regarding any additional requirements.
- **Prior to installation** - Project managers should review the code requirements with field construction personnel to ensure compliance with project requirements.

Upon completion of the roofing installation, each project is inspected by a Versico Technical Representative to ensure compliance with Versico's current specification requirements for the issuance of the applicable warranty. However, this inspection is not for the purpose of verifying code compliance.

Underwriters Laboratories Approvals
 VersiGard Black and VersiGard White Reinforced Mechanically-Fastened Roofing System

Non-Combustible - ANSI/UL 790 Spread of Flame Test (Class A)

Membrane .045", .060" or .075" VersiGard Black Reinforced Membrane
Type: .060" VersiGard White Reinforced Membrane

Non-Combustible: Steel; St. Concrete; Gypsum; Tectum (Min. 2" thick)

System ID	Deck Type	Insulation	Cover Board	Maximum Slope	
				VersiGard Black Reinforced	VersiGard White Reinforced
1	Non-Combustible	VersiCore, or SecurShield- any combination, any thickness	N/A	1/2"	1/2"
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1"	1/2"
3		Minimum 1" layer of VersiCore or SecurShield over any UL Classified EPS or XPS Insulation, maximum 1.25 pcf, any thickness	N/A	1/2"	1/2"
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	1/2"
5		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber or Ultralight Glass-Mat Roof Boards	3"	2"
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck/DensDeck Prime Roof Boards	3"	2"
7		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell Glass Mat or DEXcell FA Glass Mat Roof Boards	3"	2"
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" Recovery Board	1"	1"
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or minimum 1-1/2" DuraFaceR	1"	1"
10		Any UL Classified Versico Polyisocyanurate Insulation- any combination, any thickness (OPTIONAL)	1/2" VersiCore HD	1/2"	1/2"
11		Any UL Classified Insulation, any thickness (OPTIONAL)	Min. 5/16" DuraStorm VSH	1/2"	1/2"
12	Cellular Lightweight Concrete	N/A	N/A	1"	1"
13	Precast concrete with grouted joints	N/A	N/A	1"	1"
14	Structural (poured-in-place) concrete	N/A	N/A	1"	1"

Underwriters Laboratories Approvals
VersiGard Black and VersiGard White Reinforced Mechanically-Fastened Roofing System

Combustible (1) - ANSI/UL 790 Spread of Flame Test - Class A

Membrane .045", .060" or .075" VersiGard Black Reinforced Membrane
Type: .060" VersiGard White Reinforced Membrane

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope	
				VersiGard Black Reinforced	VersiGard White Reinforced
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class A					
1	Minimum 1/4" SECUROCK® Gypsum Fiber or Ultralight Glass Mat Roof Board (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"
2	Minimum 1/4" DensDeck or DensDeck Prime Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"
3	Minimum 1/4" DEXcell Glass Mat or DEXcell FA Glass Mat Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"
4	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite is placed directly over a combustible roof deck. An optional layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1" thick top layer, any combination, any thickness. (3)	N/A	1/2"	1/2"
5	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite over a minimum 3-1/2" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	N/A	1/2"	1/2"
6	N/A	OPTIONAL layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1/2" thick top layer, any combination, any thickness. (3)	1/2" thick SecurShield HD or SecurShield HD Plus is placed directly over a combustible roof deck. (3)	1/2"	1/2"
7	N/A	Minimum 4" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	1/2" thick SecurShield HD or SecurShield HD Plus. (3)	1/2"	1/2"
8	N/A	Minimum 1-1/2" layer of Insulfoam HD Composite over a minimum 3" layer of Insulfoam EPS. (2)	N/A	1/2"	1/2"
9	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	3"	2"
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	2"
11	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber Roof Board (2)	3"	2"
12	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Ultralight Glass-Mat or Ultralight Coated Glass Mat Roof Boards (2)	3"	2"
13	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck/ DensDeck Prime Roof Board (2)	3"	2"
14	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell Glass Mat or DEXcell FA Glass Mat Roof Board (2)	3"	2"
15	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, minimum 2" thickness.	Min. 5/16" DuraStorm VSH	1/2"	1/2"
16	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2" *(Min. 60-mil membrane only)	1/2"

Underwriters Laboratories Approvals
 VersiGard Black and VersiGard White Reinforced Mechanically-Fastened Roofing System

Combustible - ANSI/UL 790 Spread of Flame Test - Class B

Membrane Type: .045", .060" or .075" VersiGard Black Reinforced Membrane
 .060 VersiGard White Reinforced Membrane

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope	
				VersiGard Black Reinforced	VersiGard White Reinforced
Combustible - ANSI/UL 790 Spread of Flame Test-Class B					
1	One Layer of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness (OPTIONAL)	N/A	1/2"	1/2"
2	One layer of Versico G2 Base Sheet	N/A	N/A	1"	-
3	One layer of Versico FR Base Sheet or Inverted G3 cap sheet	N/A	N/A	1/2"	-

Underwriters Laboratories Approvals
 VersiGard Black and VersiGard White Reinforced Mechanically-Fastened Roofing System

Combustible (1) and Non-Combustible - ANSI/UL 790 Spread of Flame Test (Class C)

Membrane .045", .060" or .075" VersiGard Black Reinforced Membrane
Type: .060" VersiGard White Reinforced Membrane

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

Non-Combustible: Steel, St. Concrete, Gypsum or Tectum (Min. 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope	
				VersiGard Black Reinforced	VersiGard White Reinforced
Non-Combustible or Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class C					
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness. Optionally, any UL Classified insulation, any combination, any thickness may be used below the Versico Polyisocyanurate Insulation.	N/A	Unlimited	1/2"
2	N/A	Any UL Classified insulation, any combination, any thickness (OPTIONAL)	Minimum 5/16" DuraStrom VSH (2)	1/2"	1/2"

Existing UL Rating Retained Non-Combustible and Combustible (Directly over existing Class A, B or C)

System ID	Deck Type	Existing Substrate	Insulation	Maximum Slope	
				VersiGard Black Reinforced	VersiGard White Reinforced
1	Non-Combustible and Combustible	Class A, B or C mineral or smooth surfaced non-modified asphalt coated cap sheet roof covering system	Versico FR Base Sheet (Optional)	1/2"	1/2"
2	Non-Combustible	Class A, B or C built-up or modified bitumen system, (smooth surface, cap sheet or gravel surfaced with gravel maintained). Or Class A, B or C single-ply system (polystyrene in existing single-ply system must be below a coverboard or minimum 1 in. thickness of polyisocyanurate), to retain the existing Classification.	Insulfoam "R-TECH" Type "I", "VIII", "II", "IX" or "FanFold" 1 in. maximum thickness.	1/2"	1/2"
3	Combustible	Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced (gravel maintained) to retain the existing Classification.	Insulfoam "R-TECH" Type "I", "VIII", "II", "IX", "FanFold" or "Insulfoam" Type "I", "VIII", "II", "IX", 1 in. maximum thickness.	1/2"	1/2"

FM Approvals

VerisGard Black or VerisGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates for VersiCore and SecurShield

Membrane Type: .045", .060" or .075" VerisGard Black Reinforced or .060" VerisGard White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VerisGard Black or VerisGard White	VerisGard Black or VerisGard White
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90 (350373-0-0)	1-90 (350373-0-0)
5'	HPV Fastener / 2" Polymer Plate	6"	1-105 (350372-0-0)	1-105 (350372-0-0)
		12"	1-60 (5186-0-0)	1-60 (5186-0-0)
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90 (434648-0-0)	1-90 (434648-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 (381749-0-0)	1-90 (381749-0-0)
8'	HPV Fastener / 2" Polymer Plate	6"	1-75 (350375-0-0)	1-105 (179770-0-0)
		12"	-	1-60 (182024-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75 (409511-0-0)	1-90 (222334-0-0)
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90 VerisGard Black (5460-0-0) 1-120 VerisGard White (557778-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	1-90 VerisGard Black (222334-0-0) 1-75 VerisGard White (557776-0-0)

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black and VersiGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates for VersiCore and SecurShield Recover

Membrane Type: .045", .060" or .075" VersiGard Black Rein. or .060" VersiGard White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VersiGard Black Rein.	VersiGard Black Rein.
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
5'	HPV Fastener / 2" Polymer Plate	6"	1-105	1-105
		12"	1-60 (5188-0-0)	1-60 (5188-0-0)
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90 (6405-0-0)	1-90 (6405-0-0)
		12"	1-60 (5188-0-0)	1-60 (5188-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 (434477-0-0)	1-90 (434477-0-0)
8'	HPV Fastener / 2" Polymer Plate	6"	1-75	1-105
		12"	-	1-60
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75	1-90
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90 (5468-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	1-90

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black and VersiGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates For SecurShield HD and VersiCore HD

Membrane Type: .045", .060" or .075" VersiGard Black or .060" VersiGard White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VersiGard Black	VersiGard Black
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90 (348870-0-0)	1-90 (348870-0-0)
5'	HPV Fastener / 2" Polymer Plate	6"	1-105 (349271-0-0)	1-105 (349271-0-0)
		12"	1-60 (18952-0-0)	1-60 (18952-0-0)
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
		12"	1-60 18952-0-0	1-60 18952-0-0
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 381748-0-0	1-90 381748-0-0
8'	HPV Fastener / 2" Polymer Plate	6"	1-75	1-105 (179772-0-0)
		12"	-	1-60 (182026-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75 (349278-0-0)	1-90
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90 (18999-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	-

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black and VersiGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates For SecurShield HD and VersiCore HD Recover

Membrane Type: .045", .060" or .075" VersiGard Black or .060" Sure- White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VersiGard Black	VersiGard Black
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
		12"	1-60	1-60
5'	HPV Fastener / 2" Polymer Plate	6"	1-105 (5470-0-0)	1-105 (5470-0-0)
		12"	1-60 (5188-0-0)	1-60 (5188-0-0)
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90 (5468-0-0)	1-90 (5468-0-0)
		12"	1-60 (5188-0-0)	1-60 (5188-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 (434477-0-0)	1-90 (434477-0-0)
8'	HPV Fastener / 2" Polymer Plate	6"	1-75	1-105 (18624-0-0)
		12"	-	1-60
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75	1-90
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90 (5468-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	1-90

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black and VersiGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates For Dens-Deck/Securock/DEXcell

Membrane Type: .045", .060" or .075" VersiGard Black or .060" VersiGard White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VersiGard Black	VersiGard Black
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90 (348870-0-0)	1-90 (348870-0-0)
		12"	1-60	1-60
5'	HPV Fastener / 2" Polymer Plate	6"	1-105 (349271-0-0)	1-105 (349271-0-0)
		12"	1-60	1-60
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 (381748-0-0)	1-90 (381748-0-0)
8'	HPV Fastener / 2" Polymer Plate	6"	1-75	1-105 (179772-0-0)
		12"	-	1-60 (182026-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75 (349278-0-0)	1-90
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	1-90

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black and VersiGard White Reinforced EPDM Mechanically Fastened Roofing System with Plates for Recovery Board

Membrane Type: .045", .060" or .075" VersiGard Black or .060" VersiGard White Reinforced EPDM Membrane (12)
(10)

Membrane Width	Fastener/Plate	Spacing	Min. 22-gauge Grade C Steel	Min. 22-gauge Grade E Steel or Structural Concrete (11)
			VersiGard Black	VersiGard Black
10' with 9" PS RTS splitting sheet	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
		12"	1-60	1-60
5'	HPV Fastener / 2" Polymer Plate	6"	1-105 (349271-0-0)	1-105 (349271-0-0)
		12"	1-60	1-60
6'-6"	HPV Fastener / 2" Polymer Plate	6"	1-90	1-90
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-90 (381748-0-0)	1-90 (381748-0-0)
8'	HPV Fastener / 2" Polymer Plate	6"	1-75	1-105 (179772-0-0)
		12"	-	1-60 (182026-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	1-75 (349278-0-0)	1-75 (349278-0-0)
10'	HPV Fastener / 2" Polymer Plate	6"	-	1-90 (263285-0-0)
	HPV-XL Fastener / 2-3/8" HPV-XL Polymer Seam Plate	12"	-	1-90

(RoofNAV numbers) for steel decks

FM Approvals

VersiGard Black or VersiGard White Reinforced Mechanically Fastened Roofing System with Bars

Membrane Type: .045", .060" or .075" VersiGard Black or .060" VersiGard White Reinforced EPDM Membrane
(16)

FM Approved Deck Type	Field Sheet Width	Max. Fastener Spacing	FM Uplift Rating (16)		Versico HPVX Fastener With Polymer Batten or Metal Fastening Bars	
			Grade E Steel Decks (13)(15) or Structural Concrete	Steel (Min.22-gauge) Decks (14)(15)		
Steel (15) or Structural Concrete	10'	6" o.c.	1-90 (144041-0-0)	-	Polymer Batten	HPVX Fasteners (steel decks); CD-10 or MP 14-10 (Concrete Decks)
	8'	6" o.c.	1-120 (181911-0-0)	1-75 (333566-0-0)	Polymer Batten	
	8'	12" o.c.	1-60 (181530-0-0)	1-60 (181530-0-0)	Polymer Batten	
	5'	12" o.c.	1-90 (305374-0-0)	1-90 (350374-0-0)	Metal Fastening Bar	

(RoofNAV Number)

FM Fire Ratings

VersiGard Black or VersiGard White Reinforced EPDM Mechanically Fastened Roofing Systems

Membrane Type: .045", .060" or .075" VersiGard Black or .060" VersiGard White Reinforced EPDM Membrane

Deck Type	Insulation	Insulation Thickness	Maximum Slope for ASTM E-108 Class "A" Rating	
			VersiGard Black	VersiGard White
New Construction/Tearoff: Steel (Min. 22-gauge) Structural Concrete Wood (18) Tectum Retrofit (No Tearoff) (19) Structural Concrete	Recovery Board, SecurShield HD or SecurShield HD Plus over FM approved Insulation	1/2" Min.	1"	1"
	Recovery Board (min. 1/2"), SecurShield HD, or SecurShield HD Plus or (min. 1/4") DensDeck, DensDeck Prime, Securock or DEXcell Glass Mat over: FM approved Insulation (17)	Refer to FM RoofNav website		
	Polyisocyanurate VersiCore	1-1/2"-36"	1/2"	1/2"

Deck Type	Insulation	Insulation Thickness	Maximum Slope for ASTM E-108 Class "A" Rating	
			VersiGard Black	VersiGard White
Retrofit (No Tearoff) (19): Steel (Min. 22 gauge) Wood (18) Tectum	Recovery Board, SecurShield HD or SecurShield HD Plus	1/2"-1"	1"	1"
	Polyisocyanurate VersiCore	1" Max.	1/2"	1/2"

VersiGard Black Mechanically-Fastened Roofing Systems

1-120 (120 psf) Wind Uplift Equivalency Ratings*

Wind uplift testing has been completed in accordance with the FM Approvals 4470 Test Procedure which was witnessed and certified by Architectural Testing, Incorporated, an industry recognized Independent Testing Laboratory. Over a 22-gauge steel roof deck, the following results were obtained. (Performance Test Report is on file and available from Versico.)

Membrane Requirements:

Maximum 7 foot wide VersiGard Black .060" thick EPDM membrane with Versico HPV Fasteners and 2" diameter Polymer Seam Plates spaced 6" on center. *

120 psf Uplift Resistance* (1-120 Approval Equivalency on 12' X 24' Table) (20)		
Insulation	Minimum Thickness	Insulation Fastening Density
Any approved insulation	Minimum Approved Thickness (21)	1 per 8 square feet

*** A formal FM Approvals (FM) Class 1-120 rating is available using 10-foot wide VersiGard Black .075" EPDM membrane and HPV Fasteners/Polymer Plates.**

FM 4474 Approvals With Plates

Membrane Type: **.045", .060" or .075" VersiGard Black EPDM Membrane**
(22)

Approved Deck Type	Field Sheet Width	Max. Fastener Spacing	Required Fastening Plates	Versico Fastener	Uplift
Wood or Structural Concrete	10'	6" o.c.	Seam Fastening Plates	HPV Fasteners (wood);	1-90
				CD-10 or MP 14-10 (concrete)	
Grade E Steel or Structural Concrete	8'	12" o.c.	Polymer	HPV Fasteners (wood);	
				CD-10 or MP 14-10 (concrete)	
Steel (min. 22-gauge), Wood or Structural Concrete	10'	6" o.c.	Polymer	HPV Fasteners (steel/wood);	1-90
				CD-10 or MP 14-10 (concrete)	
Grade E Steel or Structural Concrete	10'	6" o.c.	Polymer	HPV Fasteners (steel);	1-105
				CD-10 or MP 14-10 (concrete)	
Steel (min. 22-gauge)	10'	6" o.c.	Polymer	HPV Fastener	1-105
Steel (min. 22-gauge) or Structural Concrete	8'	6" o.c.	Polymer	HPV Fasteners (steel/wood);	1-105
				CD-10 or MP 14-10 (concrete)	
Grade E Steel or Structural Concrete	10'	6" o.c.	Polymer	HPV Fasteners (steel);	1-120
		12" o.c.		CD-10 or MP 14-10 (concrete)	1-60
Steel (min. 22-gauge)	10'	12" o.c.	2-3/8" HPV-XL Polymer Seam Plate	HPV-XL Fastener	1-75
Grade E Steel	10' VersiGard Black .060" or .075" only	12" o.c.	2-3/8" HPV-XL Polymer Seam Plate	HPV-XL Fastener	1-90

VersiGard Black Mechanically-Fastened Roofing System

FM 4474 Approvals With Bars

Membrane Type: .045", .060" or .075" VersiGard Black EPDM Membrane
(23)

Approved Deck Type	Field Sheet Width	Max. Fastener Spacing	Uplift Rating		Versico HPVX Fastener With Polymer Batten or Metal Fastening Bars
			Grade E Steel Decks or Structural Concrete	Steel (Min.22-gauge) Decks	
Steel or Structural Concrete	10'	6" o.c.	1-90	1-90	HPVX Fasteners (steel decks); CD-10 or MP 14-10 (Concrete Decks)
	8'	6" o.c.	1-120	1-120	
	8'	12" o.c.	1-60	1-60	

METAL RETROFIT ROOFING SYSTEM

UNDERWRITERS LABORATORIES (UL) APPROVALS

The UL ratings achieved with the Metal Retrofit Roofing System are identical to the approvals listed for the VersiGard Black Mechanically-Fastened Roofing System over non-combustible decks depending on the membrane selected (Standard Reinforced or FR Reinforced EPDM).

FM APPROVALS

As referenced in FM Approvals Loss Prevention Data Sheet 1-31, the method of recovering an existing metal roof system with a single-ply mechanically fastened roofing system where the membrane is secured through the existing metal roof directly to the structural purlins is recognized as an appropriate recovery system when installed per the recommendations of FM.

FM Approvals has accepted the securement of Versico's reinforced EPDM membrane with RTS (Reinforced Universal Securement Strip) as an alternate to "in-seam fastening" as used in our VersiGard Black Mechanically-Fastened Roofing System. As such, the wind uplift resistance of the Metal Retrofit Roofing System will be equivalent to an FM 1-90 system when structural purlins are spaced a maximum of 6-1/2' on center and the RTS is secured with Versico HPV or Purlin Fasteners and Polymer Seam Plates a maximum of 6" on center into the purlins. For FM Class 60 wind uplift equivalency, the purlins could be spaced a maximum of 6-1/2' on center with the RTS secured with Versico Fasteners and 2" diameter Polymer Seam Plates spaced a maximum of 12" on center into the purlins.

As a standard FM Approvals requirement, additional membrane and insulation securement is necessary in the corner and/or perimeter areas as outlined in FM Loss Prevention Data Sheets 1-28, 1-29 and 1-31. These bulletins should be reviewed in their entirety for specific requirements concerning insulation types, fastening enhancements and other items that may be necessary.

FM Approvals – Metal Retrofit (In-Seam Securement)

Purlin Spacing	Fastener/Plate	Spacing	Rating	Coverboard	RoofNAV Number
60 Inches	Purlin/2" Polymer	6"	1-105	SecurShield HD / VersiCore HD	397957-0-0
				Recover Board	273639-0-0
				VersiCore/SecurShield	397958-0-0
				DensDeck / Securock / DEXcell	
		12"	1-60	SecurShield HD / VersiCore HD	397965-0-0
				Recover Board	273732-0-0
				VersiCore/SecurShield	397966-0-0
				DensDeck / Securock / DEXcell	

FM Approvals – Metal Retrofit with Pressure-Sensitive RTS Strip

Purlin Spacing	Fastener/Plate	Spacing	Rating	Coverboard	RoofNAV Number
60 Inches	Purlin/2" Polymer	6"	1-90	SecurShield HD / VersiCore HD	443188-0-0
				Recover Board	
				VersiCore/SecurShield	443187-0-0
				DensDeck / Securock / DEXcell	
		12"	1-60	SecurShield HD / VersiCore HD	443186-0-0
				Recover Board	
				VersiCore/SecurShield	443185-0-0
				DensDeck / Securock / DEXcell	

Underwriters Laboratories Approvals Design "B" Loose Laid Ballasted Roofing Systems

Membrane Type: Any UL Classified Versico EPDM Membrane

UL Class "A"			
Deck Type	Insulation	Insulation Thickness	Maximum Slope
Non-Combustible and Combustible	Any UL Classified Insulation	Any	2"
New Construction:	None or HP Protective Mat (Refer to Versico Specifications for requirements)	N/A	2"
Approved Lightweight Insulating Concrete			

The insulation and the membrane are laid loosely and surfaced with river bottom stone, nominal 1-1/2 in. diameter, at 1000-lbs/100-ft.2 minimum. Suitable alternates are size Nos. 1, 2, 3, 4 and 24 (as per ASTM D448), also at 1000-lbs/100-ft.2 minimum. In addition, concrete pavers or crushed stone may be used. Pavers must weigh 1000-lbs/100-ft.2 minimum and spaced no more than 1/8-in. apart and the crushed stone must meet the above size and weight requirements. Versico HPV Protective mat (not Classified) weighing, 4oz./yd.2 may be used between membrane and ballast, insulation and ballast (Irma System) or membrane and deck.

FM Laboratories Approvals Calorimeter Tests for the Design "B" Ballasted Roofing System

All constructions listed in the FM Approvals (FM) Approval Guide are Class 1 A, B or C fire rated and minimum Class 60 uplift rated.

Because of the nature of the uplift testing (pressurizing the underside of the deck to minimum 60 pounds per square foot), ballasted systems cannot be tested. If the ballasted system was tested, it would only require approximately 10-15 pounds per square foot of uplift pressure before movement of the stone and membrane would occur. In reality, ballasted systems are capable of resisting much higher wind forces.

Although ballasted systems are not formally FM approved, FM Approvals conducted research fire tests on Versico's VersiGard Design "B" Ballasted Roofing System. Two (2) test panels were constructed which consisted of a 22-gauge steel deck, 5/8" thick DensDeck or Securock gypsum board, 0.0015" aluminum vapor retarded and 4-1/4" InsulFoam EPS insulation. The following results were obtained:

Maximum Average Rate of Fuel Contribution (Btu/Square Feet/Minutes) for various intervals of time

	3 Minutes	5 Minutes	10 Minutes
FM Class 1 Standard (Maximum Allowable Contribution)	385	365	340
Test Panel No. 2 *	124	103	88

* The fuel contribution rates developed for Test Panel No. 2 were equivalent to Test Panel No. 1

The conclusion of the research report was that the Ballasted System Panels had met the fire hazard requirement for Class 1 insulated steel deck roof construction.

Additionally, FM Approvals has published Loss Prevention Data Sheet 1-29, Above Deck Roof components that outlines general guidelines for ballast criteria depending on project conditions (building height, parapet height, location, etc.). According to this bulletin, FM Approvals' loss experience has been very favorable for single-ply Ballasted Roofing Systems when designed in accordance with this published criteria.

Although FM does not formally approve Ballasted Systems, job-by-job acceptance can be obtained when FM Approvals is the insurance underwriter by contacting the local FM office for requirements.

Underwriters Laboratories Approvals

Design "C" Loose Laid Protected Roofing System

Membrane Type: Any UL Classified Versico EPDM Membrane

UL Class "A"			
Deck Type	Insulation	Insulation Thickness	Maximum Slope
Non-Combustible and Combustible	Foamular 404	8" Max.	2"
	Dow Styrofoam Roofmate or Plazamate	4" Max.	2"

The insulation and the membrane are laid loosely and surfaced with river bottom stone, nominal 1-1/2 in. diameter, at 1000-lbs/100-ft.2 minimum. Suitable alternates are size Nos. 1, 2, 3, 4 and 24 (as per ASTM D448), also at 1000-lbs/100-ft.2 minimum. In addition, concrete pavers or crushed stone may be used. Pavers must weigh 1000-lbs/100-ft.2 minimum and spaced no more than 1/8-in. apart and the crushed stone must meet the above size and weight requirements. Versico HP Protective mat (not Classified) weighing, 4oz./yd.2 may be used between membrane and ballast, insulation and ballast (Irma System) or membrane and deck.

Underwriters Laboratories Approvals
Design "A" Adhered Roofing Systems

Non-Combustible - ANSI/UL 790 Spread of Flame Test - Class A

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black Rein. .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard Cool Gray EPDM .060"

Non-Combustible: Steel; St. Concrete; Gypsum; Tectum (Min. 2" thick)

System ID	Deck Type	Insulation	Cover Board	Maximum Slope			
				VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard Gray
1	Non-Combustible	VersiCore, or SecurShield- any combination, any thickness	N/A	1/2"	1/2"	1/2"	-
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1"	1"	1-1/4"	-
3		Minimum 1" layer of VersiCore or SecurShield over any UL Classified EPS or XPS Insulation, maximum 1.25 pcf, any thickness	N/A	1/2"	1/2"	1/2"	-
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	1/2"	1/2"	-
5		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber or Ultralight Coated Roof Boards	Unlimited (3" w/ CG3V)	3"	2"	1-1/2"
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Boards	Unlimited (3" w/ CG3V)	3"	2"	1-1/2"
7		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" Recover Board	1"	1"	1-1/4" (1" w/ CG3V)	-
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or minimum 1-1/2" DuraFaceR	1"	1"	1-1/4" (1" w/ CG3V)	-
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Min. 1/4" DEXcell FA Glass Mat	Unlimited (3" w/ CG3V)	3"	2"	1-1/2"
10		Any UL Classified Insulation, any thickness (OPTIONAL)	Min. 5/16" DuraStorm VSH	1/2"	1/2"	1/2"	-
10	Cellular Lightweight Concrete	N/A	N/A	1"	1"	1-1/4" (1" w/ CG3V)	-
11	Precast concrete with grouted joints	N/A	N/A	1"	1"	1-1/4" (1" w/ CG3V)	-
12	Structural (poured-in-place) concrete	N/A	N/A	1"	1"	1-1/4" (1" w/ CG3V)	-

Underwriters Laboratories Approvals
Design "A" Adhered Roofing Systems

UL Approval - Combustible (1) - ANSI/UL 790 Spread of Flame Test - Class A

Membrane: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)
Adhesive:

VersiGard Black Nonreinforced .045", .060" or .090"
Membrane: VersiGard Black Rein. .045", .060", or .075"
Type: VersiGard White .060" or .090"
VersiGard Cool Gray .060"

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Teatum (less than 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board (30)	Maximum Slope			
				VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard Gray
Combustible (1)- ANSI/UL 790 Spread of Flame Test-Class A							
1	Minimum 1/4" SECUROCK® Gypsum Fiber or Ultralight Glass Mat Roof Board (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/2"	-
2	Minimum 1/4" DensDeck or DensDeck Prime Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/2"	-
3	Minimum 1/4" DEXcell Glass Mat or DEXcell FA Glass Mat Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/2"	-
4	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite is placed directly over a combustible roof deck. An optional layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1" thick top layer, any combination, any thickness. (3)	N/A	1/2"	1/2"	1/2"	-
5	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite over a minimum 3-1/2" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	N/A	1/2"	1/2"	1/2"	1-1/2"
6	N/A	OPTIONAL layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1/2" thick top layer, any combination, any thickness. (3)	1/2" thick SecurShield HD or SecurShield HD Plus is placed directly over a combustible roof deck. (3)	1/2"	1/2"	1/2"	1-1/2"
7	N/A	Minimum 4" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	1/2" thick SecurShield HD or SecurShield HD Plus (3)	1/2"	1/2"	1/2"	-
8	N/A	Minimum 1-1/2" layer of Insulfoam HD Composite over a minimum 3" layer of Insulfoam EPS. (2)	N/A	1/2"	1/2"	1/2"	-
9	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	3"	3"	2"	-
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	2"	2"	-
11	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber Roof Board (2)	4" (3" w/ CG3V)	3"	2"	-
12	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	Unlimited (3" w/ CG3V)	3"	2"	-
13	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell FA Glass Mat Roof Board (2)	Unlimited (3" w/ CG3V)	3"	2"	-
14	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/2"	-
15	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, minimum 2" thickness.	Min. 7/16" DuraStorm VSH	1/2" *(Minimum 60 -mil membrane only)	1/2" *(Minimum 60 -mil membrane only)	1/2" *(Minimum 60 -mil membrane only)	-

Underwriters Laboratories Approvals
Design "A" Adhered Roofing Systems

Combustible (1) - ANSI/UL 790 Spread of Flame Test - Class B

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black Rein. .045", .060", or .075"
VersiGard White .060" or .090"

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope		
				VersiGard Black Nonreinforced	VersiGard Black	VersiGard White
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class B						
1	One layer of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/2"
2	One layer of Versico G2 Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, minimum 1-1/2" thickness.	N/A	1/2"	1/2"	1/2"

Underwriters Laboratories Approvals
Design "A" Adhered Roofing Systems

Combustible and Non-Combustible - ANSI/UL 790 Spread of Flame Test (Class C)

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Membrane Type: VersiGard Black Nonreinforced .045', .060" or .090"
VersiGard Black Rein. .045", .060", or .075"
VersiGard White .060" or .090

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

Non-Combustible: Steel, St. Concrete, Gypsum or Tectum (Min. 2" thick)

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope
				VersiGard Black Nonreinforced, VersiGard Black Rein & VersiGard White EPDM
Non-Combustible or Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class C				
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness. Optionally, any UL Classified insulation, any combination, any thickness may be used below the Versico Polyisocyanurate Insulation.	N/A	Unlimited
2	N/A	Any UL Classified insulation, any combination, any thickness (OPTIONAL)	Minimum 5/16" DuraStorm VSH (2)	1/2"

Existing UL Rating Retained (Directly over existing Class A, B or C)

Membrane Type: VersiGard Black Nonreinforced .045', .060" or .090"
VersiGard Black Rein. .045", .060", or .075"
VersiGard White .060" or .090

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

System ID	Deck Type	Existing Substrate	Insulation	Maximum Slope
				VersiGard Black Nonreinforced, VersiGard Black Rein & VersiGard White EPDM
1	Combustible or Non-Combustible	Existing Class A, B or C mineral or smooth surfaced non-modified asphalt coated cap sheet roof covering system, to retain the existing Classification	None	1/2"

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Ratings - New Construction

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Type:

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	284927-0-0 (G200SA)	293986-0-0	-	-
FM Approved	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	385922-0-0	385912-0-0	385913-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	409971-0-0	-	410009-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD over Min. 1" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	409982-0-0	410028-0-0	410030-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	409983-0-0	410031-0-0	410033-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD over Min. 1" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	409996-0-0	410034-0-0	410036-0-0	-
Min. 2" Insulfoam EPS over 1/2" Dens-Deck	16 (2 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-90	427332-0-0	427351-0-0	427353-0-0	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" SecurShield HD over Min. 1" VersiCore	12" ribbons or Rig Splatter of DASH	1-120	561735-0-0	-	-	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-120	454478-0-0	454477-0-0	454479-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD	6" ribbons or Rig Splatter of DASH	1-135	454484-0-0 (TRU GROUND)	454483-0-0	454485-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD over Min. 1" VersiCore	6" ribbons or Rig Splatter of DASH	1-135	-	-	551830-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD	4" ribbons or Rig Splatter of DASH	1-165	454476-0-0	454476-0-0	454488-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD over Min. 1" VersiCore	4" ribbons or Rig Splatter of DASH	1-165	-	-	551831-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD	4" ribbons or Rig Splatter of DASH	1-225	454536-0-0	454486-0-0	454537-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD over Min. 1" VersiCore	4" ribbons or Rig Splatter of DASH	1-225	-	-	551832-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	SecurShield HD over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	389422-0-0	404115-0-0	404125-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 901G								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	466199-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Ratings - New Construction

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Type:

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-315	343383-0-0	344366-0-0	344369-0-0	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120	438091-0-0 (G200SA)	-	-	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120	-	-	438103-0-0	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	438097-0-0 (LVOC)	-	-
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-285	429674-0-0	429685-0-0	429687-0-0	-
Min. 2" ChannelDry EPS	Loose laid	1/2" SecurShield HD over Min. 2" SecurShield Polyiso	8 (4 sq. ft)	1-90	441959-0-0	441960-0-0	441962-0-0	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-165 702	-	437582-0-0 (G200SA)	437587-0-0	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-105 702	437577-0-0 (G200SA)	-	-	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-90 702	-	437583-0-0 (LVOC)	-	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120 702	-	-	-	-
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-150 702	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-255	452713-0-0	364572-0-0 (1-315)	424132-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-465	-	-	-	-
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-255	429677-0-0	429694-0-0	429697-0-0	-
Concrete Deck with SureMB 70 SA with Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-285	519861-0-0	Pending	Pending	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-150	392983-0-0	392987-0-0	392998-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-465	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	461030-0-0	-	461033-0-0	-
Gypsum Deck Tear-Off with VapAir Seal 725 TR / Cav-Grip 3V, 702-LV or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-
FM Approved	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	-	-	-	-
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	295759-0-0 (G200SA)	299369-0-0 (G200SA)	-	-
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	427370-0-0	427472-0-0	427474-0-0	-
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-90	309444-0-0	309401-0-0	-	-
-	-	1/2" SecurShield HD	4" ribbons of DASH	1-150	-	-	-	-
Concrete Deck								
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	513002-0-0	-	-	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-150	-	-	-	-
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-150	-	-	-	-
Gypsum Deck								
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	-	-	-

SecurShield HD Plus Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	325739-0-0 (G200SA)	341318-0-0	345078-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	325772-0-0 (G200SA)	325981-0-0 (G200SA)	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-150	374515-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft.)	1-165	325920-0-0 (G200SA)	325984-0-0 (G200SA)	-	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-225 (42)	325921-0-0 (G200SA)	325986-0-0 (G200SA)	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus over 1" Min. VersiCore	12" ribbons or Rig Splatter of DASH	1-90	-	-	555692-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	485950-0-0 (TRU GROUND)	410034-0-0	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus over 1" Min. VersiCore	12" ribbons or Rig Splatter of DASH	1-90	409996-0-0	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons or Rig Splatter of DASH	1-105	325930-0-0 (G200SA)	325991-0-0 (G200SA)	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons or Rig Splatter of DASH	1-135	-	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over 1" Min. VersiCore	6" ribbons or Rig Splatter of DASH	1-135	-	-	551830-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons or Rig Splatter of DASH	1-225	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	16 (2 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 7251R and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	389422-0-0	404115-0-0	404125-0-0	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

SecurShield HD Plus Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	434256-0-0	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-315	343383-0-0	344366-0-0	344369-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-225	-	-	-	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso or SecurShield	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-255	-	-	424132-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-465	-	-	-	-
Concrete Deck with SureMB 70 SA with Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-285	519861-0-0	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-150	392983-0-0	392987-0-0	392998-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-465	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-90	-	-	-	-
Gypsum Deck Tear-Off / VapAir Seal 725 TR with Cav-Grip 3V, 702-LV or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-	-	-
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Plus Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	325757-0-0	325976-0-0	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-	-
-	-	1/2" SecurShield HD Plus	4" ribbons of DASH	1-150	-	-	-	-
-	-	1/2" SecurShield HD Plus	18 (1.78 sq. ft.)	1-120	392435-0-0	394207-0-0	394209-0-0	-
-	-	1/2" SecurShield HD Plus	24 (1.33 sq. ft.)	1-165	394216-0-0	394217-0-0	394219-0-0	-
Concrete Deck								
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-150	-	-	-	-
		1/2" SecurShield HD Plus	6" ribbons of DASH	1-150	-	-	-	-
-	-	1/2" SecurShield HD Plus	24 (1.33 sq. ft.)	1-225	501475-0-0	-	-	-
Gypsum Deck								
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	1/2" SecurShield HD Plus	Full-Coverage DASH	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

VersiCore Polyiso Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					Roof/NAV Number			
Steel Deck (Min. 22-Gauge)								
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	-	-	1-90	400122-0-0 (LVOC)	4069-0-0	400111-0-0	561050-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	-	-	1-90	224172-0-0	384640-0-0	3619-0-0	561065-0-0
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	-	-	1-150	131096-0-0	384671-0-0	384674-0-0	568544-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	437159-0-0	437161-0-0	437162-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	344604-0-0	344603-0-0	187056-0-0 (G200SA)	569683-0-0
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-105	454480-0-0	-	454482-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-150	455826-0-0	455823-0-0	455830-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1" VersiCore Polyiso	4" ribbons of DASH	1-270	455862-0-0	455856-0-0	455866-0-0	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	181102-0-0	181102-0-0	181105-0-0	569659-0-0
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	445221-0-0	445295-0-0	445292-0-0	569665-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	509651-0-0	509654-0-0	509656-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	454489-0-0	-	454490-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

VersiCore Polyiso Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					Roof/NAV Number			
Concrete Deck								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-315	269891-0-0	269891-0-0	269945-0-0	569386-0-0
Min. 1" VersiCore Polyiso	Hot Asphalt	-	-	1-300	240000-0-0 (G200SA)	240000-0-0 (G200SA)	241715-0-0 (G200SA)	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-315	454371-0-0	454371-0-0	343381-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-315	462895-0-0	462895-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-465	462896-0-0	462896-0-0	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-285	509657-0-0	509658-0-0	509660-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-510	509661-0-0	509662-0-0	509664-0-0	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-465	462932-0-0	462932-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-345	-	-	454391-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-315	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	394469-0-0	394469-0-0	394470-0-0	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	7451-0-0 (G200SA)	7451-0-0 (G200SA)	7418-0-0 (G200SA)	-
Min. 1" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	193356-0-0	193356-0-0	193375-0-0	-
Gypsum Deck Tear-Off / VapAir Seal 725 TR with Cav-Grip 3V, 702-LV or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	-	-	1-90	445220-0-0	445294-0-0	445290-0-0	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	-	-	1-90	-	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-150	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

VersiCore Polyiso Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
1" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-90	164635-0-0	164635-0-0	164639-0-0 (G200SA)	
2" VersiCore Polyiso	-	2" VersiCore Polyiso	8 (4 sq. ft.)	1-90				569677-0-0
1" VersiCore Polyiso	Full-Coverage DASH	-	-	1-150	417298-0-0	417301-0-0	417311-0-0	
1" VersiCore Polyiso	6" ribbons of FAST	-	-	1-90	437208-0-0	-	-	
1" VersiCore Polyiso	6" ribbons of FAST	-	-	1-150	466153-0-0	-	-	
1" VersiCore Polyiso	12" ribbons of FAST	-	-	1-90	193356-0-0	193356-0-0	-	
Concrete Deck								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	445220-0-0	-	-	
Gypsum Deck								
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	83131-0-0 (G200SA)	83131-0-0 (G200SA)	97712-0-0 (G200SA)	569689-0-0
Min. 1/2" VersiCore Polyiso	Full-Coverage DASH	-	-	1-90	144196-0-0	144196-0-0	-	

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
Min. 1-1/2" SecurShield or 2" SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	400122-0-0	400122-0-0	400111-0-0	-
Min. 2" SecurShield or SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	4089-0-0 (G200SA) SecurShield HD Comp. Only	4089-0-0 (G200SA) SecurShield HD Comp. Only	-	-
Min. 2" SecurShield	32 (1 sq. ft.)	-	-	1-225 (42)	399359-0-0	245201-0-0 (G200SA)	245503-0-0 (G200SA) SecurShield Only	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	344604-0-0	344603-0-0	-	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-90	252110-0-0 (G200SA) SecurShield Only	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	296822-0-0 (G200SA)	400818-0-0	400790-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120 TG Base Torch Applied								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-90	454489-0-0	-	454490-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 2" SecurShield or SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-255	430148-0-0	-	-	-
Min. 2" SecurShield or SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-150	430147-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	-	Min. 2" SecurShield HD Composite	16 (2 sq. ft.)	1-120	-	-	349806-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-315	399892-0-0	-	-	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-315	394769-0-0	395863-0-0	395870-0-0	-
Min. 1-1/2" SecurShield Polyiso	6" ribbons of DASH	-	-	1-465	-	-	-	-
Min. 1/2" SecurShield Polyiso	6" ribbons of DASH	-	-	1-315	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-285	519850-0-0	519877-0-0	519853-0-0	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-150	-	-	-	-
Min. 2" SecurShield	12" ribbons of DASH	-	-	1-195	392301-0-0	-	-	-
Min. 1-1/2" SecurShield Polyiso	6" ribbons of DASH	-	-	1-465	-	-	-	-
Min. 1/2" SecurShield Polyiso	6" ribbons of DASH	-	-	1-315	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	-	-	-	-
Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	-	-	1-90	-	-	-	-
Gypsum Deck Tear-Off / VapAir Seal 725 TR with Cav-Grip 3V, 702-LV or 702 Primer								
Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	-	-	1-90	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-75	-	-	-	-
Min. 2" SecurShield or SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	-	-	-	-
Min. 2" SecurShield or SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-150	-	-	-	-
Min. 2" SecurShield or SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-225	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045', .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
2" SecurShield	20 (1.6 sq. ft)	-	-	1-150	325737-0-0 (G200SA)	-	-	-
1" SecurShield	16 (2 sq. ft)	-	-	1-90	400222-0-0	400222-0-0	-	-
1" SecurShield	Full-Coverage DASH	-	-	1-150	-	-	-	-
Concrete Deck								
Min. 1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-	-
Gypsum Deck								
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-	-	-
1" SecurShield	Full-Coverage DASH	-	-	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems
Securock Ratings - New Construction

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Type:

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive:

DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	Min. 1/4" Securock	12 (2.66 sq. ft.)	1-75	-	-	-	-
FM Approved	Loose laid	Min. 1/4" Securock	16 (2 sq. ft.) SecurFAST Plates	1-90	-	270074-0-0 (G200SA)	270077-0-0 (G200SA)	-
FM Approved	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft.) SecurFAST Plates	1-90	212270-0-0	405772-0-0	405774-0-0	-
FM Approved	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft.)	1-90	302948-0-0	302946-0-0	302947-0-0	-
FM Approved	Loose laid	Min. 1/2" Securock	8 (4 sq. ft.) SecurFAST Plates	1-90	319024-0-0	-	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft.)	1-90				
FM Approved	Loose laid	Min. 1/2" Securock	6 (5.33 sq. ft.) SecurFAST Plates	1-75	443353-0-0			
FM Approved	Loose laid	Min. 5/8" Securock	6 (5.33 sq. ft.) SecurFAST Plates	1-90	-	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft.)	1-150	-	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft.)	1-255	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	12" ribbons or Rig Splatter of DASH	1-90	386969-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock over Min. 1" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	386968-0-0	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	340814-0-0	507492-0-0	388301-0-0	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock	12" ribbons or Rig Splatter of DASH	1-120	455759-0-0	455762-0-0	455767-0-0	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-120	-	-	519204-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock	6" ribbons or Rig Splatter of DASH	1-135	455719-0-0	455717-0-0	455720-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" Securock	4" ribbons or Rig Splatter of DASH	1-225	455794-0-0	455789-0-0	455797-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/2" Securock	12" ribbons or Rig Splatter of DASH	1-90	-	187061-0-0	388301-0-0	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over Min. 2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Min. 1/2" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over Min. 1" Insulfoam EPS	6" ribbons of DASH	1-90	517257-0-0	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	459080-0-0	459081-0-0	459084-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	551660-0-0	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems
Securock Ratings - New Construction

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Type:

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/2" Securock	12" ribbons or Rig Splatter of DASH	1-90	403959-0-0	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons or Rig Splatter of DASH	1-315	307927-0-0 (G200SA)	304589-0-0 (G200SA)	-	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1" Insulfoam EPS	12" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-255	396669-0-0 (LVOC)	396689-0-0 (LVOC)	396708-0-0 (LVOC)	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-315	364529-0-0	364502-0-0 (1-150)	364504-0-0 (1-150)	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-315	-	519882-0-0 (1-150)	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-465	-	-	-	-
Concrete Deck with SureMB 70 SA with Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-285	519843-0-0	-	519839-0-0	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-150	392916-0-0	-	392919-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-465	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" Securock	Full-Coverage DASH	1-90	515237-0-0	515237-0-0	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	Min. 1/4" Securock	12" ribbons or Rig Splatter of DASH	1-90	458122-0-0	458123-0-0	458125-0-0	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	Min. 1/4" Securock	12 (2.67 sq. ft)	1-75	-	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft)	1-150	-	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-225	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Securock Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck								
Max. 1" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	437209-0-0	-		-
Concrete Deck								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-		-

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiCard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	-	83097-0-0 (G200SA)	97691-0-0 (G200SA)	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	350409-0-0	350408-0-0	350410-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose Laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-105	224154-0-0 (G200SA)	224152-0-0	224159-0-0	-
FM Approved	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq. ft)	1-90	85854-0-0 (G200SA)	83095-0-0 (G200SA)	97689-0-0 (G200SA)	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq.ft)	1-90	454398-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" DensDeck Prime	18 (1.8 sq. ft)	1-105	382307-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft)	1-135	383697-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-150	383707-0-0	-	394644-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-165	424136-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-180 (41)	384589-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-255 (42)	387896-0-0	-	394645-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	428854-0-0	187061-0-0 (G200SA)	428856-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	428851-0-0	507492-0-0	428858-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-120	455759-0-0	455762-0-0	455767-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime	6" ribbons or Rig Splatter of DASH	1-135	455716-0-0	455717-0-0	455720-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" DensDeck Prime	4" ribbons or Rig Splatter of DASH	1-225	455785-0-0	455789-0-0	455797-0-0	-
Min. 2" Insulfoam Roofing EPS over 1/2" DensDeck	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-90	444733-0-0	444734-0-0	444736-0-0	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	303439-0-0	303438-0-0 (G200SA)	303441-0-0 (G200SA)	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime over 1" Insulfoam EPS	6" ribbons of DASH	1-90	517257-0-0	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	459080-0-0	459081-0-0	459084-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	DASH Rig Splatter	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	551660-0-0	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiCard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22 Gauge) with SureMB 90TG Base Torch Applied								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime over	12" ribbons of DASH	1-90	470102-0-0	470103-0-0	470105-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" DensDeck Prime over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Concrete Deck								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-465	160628-0-0 (G200SA)	160610-0-0 (G200SA)	160633-0-0 (G200SA)	-
Min. 2" Insulfoam Roofing EPS	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-465	160628-0-0	160610-0-0	160633-0-0	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	Hot Asphalt	1-300	519989-0-0	-	-	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	274598-0-0 (G200SA)	274610-0-0 (G200SA)	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-315	364529-0-0	364531-0-0	364610-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-465	-	-	-	-
Min. 1" Insulfoam EPS	6" ribbons of DASH	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-165	395957-0-0	395960-0-0	395962-0-0	-
Concrete Deck with SureMB 70 SA with Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-285	519843-0-0	-	519844-0-0	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-330	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-105	-	-	392993-0-0	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-465	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" DensDeck Prime	Full-Coverage DASH	1-90	515237-0-0	515237-0-0	157783-0-0 (G200SA)	-
Gypsum Deck Tear-Off with VapAir Seal 725TR/Cav-Grip 3V Primer, 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	458122-0-0	458123-0-0	458125-0-0	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft.)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft.)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq. ft.)	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	458122-0-0	458123-0-0	458125-0-0	-
Concrete Deck								
-	-	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	-	428852-0-0	-
Min. 1" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-75	-	-	173671-0-0 (G200SA)	-

FM Approvals
Design "A" Adhered Roofing Systems

Recovery Board Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Recovery Board	16 (2 sq. ft)	1-90	270071-0-0 (x-23 Only)	270070-0-0 (x-23 Only)	270073-0-0 (x-23 Only)
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	Min. 1/2" Recovery Board	16 (2 sq. ft)	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DuraFaceR Ratings - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	Min. 2" DuraFaceR	17 (1.8 sq. ft)	1-105	-	-	-	-
FM Approved	Loose laid	Min. 2" DuraFaceR	32 (1 sq. ft)	1-210	-	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFaceR	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFaceR	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied								
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFaceR	6" ribbons of DASH	1-135	-	-	-	-
Concrete Deck								
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 2" DuraFaceR	32 (1 sq. ft)	1-210	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-315	-	-	-	-
Min. 2" ChannelDry EPS	6" ribbons of DASH	Min. 2" Insulam OSB	6" ribbons of DASH	1-930	491532-0-0	491533-0-0	491535-0-0	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip 3V, 702 LV or 702 Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-255	-	-	-	-
Concrete Deck with SureMB 70 SA with Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-285	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-330	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR/ Cav-Grip 3V, 702-LV or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking								
FM Approved	Loose laid	Min. 2" DuraFaceR	17 (1.9 sq. ft)	1-105	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Concrete Decking								
Min. 1/2" VersiCore Polyiso	4" ribbons of DASH	Min. 2" DuraFaceR	4" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DuraFaceR Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045', .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DEXcell FA Glass Mat - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	Min. 1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft.)	1-90	350409-0-0	350408-0-0	350410-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	386969-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	386968-0-0	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	428854-0-0	187061-0-0 (G200SA)	428856-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	428851-0-0	507492-0-0	428858-0-0	-
Min. 1/2" DensDeck Prime or 5/8" SECUROCK	16 (2 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	459080-0-0	459081-0-0	459084-0-0	-
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1" Insulfoam Roofing EPS	6" ribbons of DASH	1-90	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	551660-0-0	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	470102-0-0	470103-0-0	470105-0-0	-

FM Approvals
Design "A" Adhered Roofing Systems

DEXcell FA Glass Mat - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Concrete Deck								
Min. 2" Insulfoam Roofing EPS	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-465	160628-0-0	160610-0-0	160633-0-0	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-465	160628-0-0	160610-0-0	160633-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-315	307927-0-0	304589-0-0	-	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip Primer, 702 LV Primer or 702 Primer								
Min. 1" Insulfoam EPS	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-315	396673-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-255	364529-0-0	364531-0-0	364610-0-0	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-285	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-150	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725 TR/Cav-Grip 3V 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	-	-	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	Min. 1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft)	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DEXcell FA Glass Mat Ratings - Recover

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck								
Max. 1" VersiCore Polyiso	Loose laid	Min. 1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft)	1-90	-	-	-	-
Concrete Deck								
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	6" ribbons of DASH	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DuraStorm VSH - New Construction (SH RATING ONLY)

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
Membrane Type: VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22-Gauge)								
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	8 (4 sq. ft.)	1-90	325739-0-0	325970-0-0	345078-0-0	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	18 (1.8 sq. ft.)	1-120	325772-0-0	325981-0-0	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	20 (1.6 sq. ft.)	1-150	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	24 (1.33 sq. ft.)	1-225	325921-0-0	325986-0-0	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	32 (1 sq. ft.)	1-255	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-90	450413-0-0 (TRU GROUND)	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	409996-0-0	410034-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-105	325930-0-0	325991-0-0	-	-
Min. 1/2" DensDeck Prime or 5/8" SECUROCK	16 (2 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725 FR and Cav-Grip 3V or 702 Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1" Insulfoam Roofing EPS	6" ribbons of DASH	1-90	374034-0-0	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DuraStorm VSH - New Construction (SH RATING ONLY)

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"
Membrane Type: VersiGard White .060" or .090"
VersiGard White Reinforced .060"
VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied								
Min. 1/2" DensDeck Prime or SECUROCK	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-
Min. 1/2" DensDeck Prime or SECUROCK	20 (1.6 sq. ft.)	Min. 1/2" DuraStorm VSH over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-
Concrete Deck								
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	-	-	-
Min. 2" Insulfoam Roofing EPS	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-285	429674-0-0	429685-0-0	429687-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-315	343383-0-0	344366-0-0	344369-0-0	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip Primer, 702 LV Primer or 702 Primer								
Min. 1" Insulfoam EPS	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-255	429677-0-0	429694-0-0	429697-0-0	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-315	452713-0-0	364572-0-0	-	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-465	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-285	519861-0-0	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer								
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-150	-	-	-	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-315	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-465	-	-	-	-
Gypsum Deck Tear-Off								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725 TR/Cav-Grip 3V 702 LV Primer or 702 Primer								
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	-	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)								
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	12 (2.67 sq. ft)	1-75	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	10 (3.2 sq. ft)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	20 (1.6 sq. ft)	1-150	-	-	-	-
FM Approved	Loose laid	Min. 1/2" DuraStorm VSH	32 (1 sq. ft)	1-225	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

DuraStorm VSH Ratings - Recover (SH RATINGS ONLY)

VersiGard Black Nonreinforced .045", .060" or .090"
VersiGard Black .045", .060", or .075"

Membrane Type: VersiGard White .060" or .090"

VersiGard White Reinforced .060"

VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA, Cav-Grip 3V (CG3V) or EPDM x-23 LVOC Bonding Adhesive (LVOC)

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 38, 39 & 40)	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
					RoofNAV Number			
Steel Deck								
Max. 1" VersiCore Polyiso	Loose laid	Min. 1/2" DuraStorm VSH	10 (3.2 sq. ft)	1-90	-	-	-	-
Concrete Deck								
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/2" DuraStorm VSH	6" ribbons of DASH	1-90	-	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Lightweight Insulating Concrete - New Construction

Membrane Type: VersiGard Black Nonreinforced .045", .060" or .090"
 VersiGard Black .045", .060", or .075"
 VersiGard White .060" or .090"
 VersiGard White Reinforced .060"
 VersiGard Cool Gray FR Nonreinforced .060"

Membrane Adhesive: G200SA

Deck Type	Lightweight Insulating Concrete	Rating	VersiGard Black Nonreinforced	VersiGard Black	VersiGard White	VersiGard White Reinforced / VersiGard Cool Gray
			RoofNAV Number			
Steel	Celcore	1-135	-	-	243813-0-194470	-
Concrete	Celcore	1-270	-	-	-	-
Concrete	Elastizell	1-180	173454-0-50936	173568-0-50936	192446-0-50936	-

Adhered Roofing Systems

1-165 (165 psf) Wind Uplift Equivalency Ratings (over OSB)

**Membrane Type: VersiGard Black/VersiGard White .060" or .090" Non-Reinforced EPDM Membrane
VersiGard Black .045", .060" or .075" Reinforced EPDM Membrane**

Wind uplift testing has been completed in accordance with the FM Approvals 4470 Test Procedure which was witnessed and certified by Architectural Testing, Incorporated, an industry recognized Independent Testing Laboratory. Over a 22-gauge steel roof deck, the following results were obtained. Performance Test Reports are on file and available from Versico.

165 psf Uplift Resistance (1-165 Approval Equivalency on 12' X 24' Table) (43)(44)	
Insulation	Insulation Fastening Density
Polyisocyanurate insulation overlaid with minimum 7/16" thick APA grade non-veneer oriented strand board (OSB).	17 fasteners per 4' X 8' board per Versico Detail A-27-D

NATIONAL, STATE & CITY BUILDING CODE APPROVALS

Authority	Approval	Approved Systems
ICC - International Code Council	Report ESR 1184 Report ESR-1463	"B" "A" and "MF"
SBCCI	These Code Bodies merged to form ICC as of March 2003 Refer to ICC approval	"B"
BOCA		"B"
NES – National Evaluation Service, Inc.		"B" "A" and "MF"
ICBO		"B" "A" and "MF"

State of Florida Evaluation Report

Evaluation Report Number	Evaluation Report Use
FL1616	Not for use in High Velocity Hurricane Zone area
FL1616	For use in High Velocity Hurricane Zone area

Versico Roofing Systems, a division of Carlisle Construction Materials LLC, P. O. Box 7000, Carlisle, PA 17013

800-992-7663

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VersiGard EPDM

Reference Notes

1. Any roof covering system listed for use over a combustible roof deck can be installed over a non-combustible roof deck and achieve the same classification.
2. All insulation joints must be staggered a minimum of 6 inches from the deck joints or from the insulation joints directly below.
3. All insulation joints must be staggered a minimum of 12 inches from the deck joints or from the insulation joints directly below.
4. DELETED
5. DELETED
6. DELETED
7. DELETED
8. DELETED
9. DELETED
10. For insulation requirements, maximum roof slopes and acceptable roof construction types (new, Tear-off or retrofit).
11. Testing conducted on FM approved 22-gauge Grade E steel decking meeting ASTM A653 or A446 Grade 80.
12. Please reference ANSI-SPRI WD-1/ASCE 7-10 for non-FM insured projects.
13. Steel decking shall be FM approved minimum 22-gauge meeting ASTM designation A611 Grade E or A653 Grade 80.
14. Testing conducted on standard FM approved 22-gauge steel decking secured as outlined in the FM Approval Guide and FM Loss Prevention Data Sheet 1-29.
15. For FM 1-90 ratings, deck securement requirements are outlined in the FM Approval Guide under the respective deck manufacturer approval listing.
16. Refer to the following pages for insulation requirements, maximum roof slopes, approved insulation and acceptable roof construction types (new, Tear-off or retrofit).
17. On steel decks, a thermal barrier of FM approved perlite or gypsum board (Type "X" or Type "C") is required under expanded and extruded polystyrene insulations. For specific thermal barrier requirements, consult the respective insulation manufacturer or current published FM Approval Guide.
18. On FM approved wood decks, minimum 1/4" thick gypsum board must be installed beneath the insulations listed. Polystyrene insulations must incorporate 1/4" gypsum board in addition to standard thermal barrier requirements.
19. Existing roof must be FM Class 1 rated.
20. Testing conducted on minimum 22-gauge steel roof deck secured to the structural steel supports having a maximum span of 6' on center. The deck is fastened to the minimum 1/4" thick steel supports with ITW Buildex Traxx/5 fasteners spaced a maximum of 6" on center. Deck side laps are secured with Traxx/1 Fasteners spaced a maximum of 30" on center.
21. 1/2" thick Recover Board cannot be installed as a single layer directly over wide rib (type B) or intermediate rib (type F) steel decks. For flute spanability criteria with Polyisocyanurate insulation, contact the respective insulation manufacturer.
22. Refer to the following pages for insulation requirements, maximum roof slopes and acceptable roof construction types (new, Tear-off or retrofit).
23. Refer to the following pages for insulation requirements, maximum roof slopes, approved insulation and acceptable roof construction types (new, Tear-off or retrofit).
24. DELETED
25. DELETED
26. DELETED

- 27. DELETED
- 28. DELETED
- 29. DELETED
- 30. DELETED
- 31. DELETED

32. DELETED

33. DELETED

34. DELETED

35. DELETED

36. DELETED

37. DELETED

38. Versico HPV fastener/Insulation plate.

39. InsulTITE fastener/Insulation plate.

40. InsulTITE fastener/SecurFAST Insulation Fastening plate.

41. 80 ksi with one fastener per attachment point.

42. 80 ksi with two fasteners per attachment point.

43. Testing conducted on 22-gauge steel roof deck secured to the structural steel supports having a maximum span of 6" on center. The deck is fastened to the minimum 1/4" thick steel supports with ITW Buildex Traxx/5 fasteners spaced a maximum of 6" on center. Deck side laps are secured with Traxx/1 Fasteners spaced a maximum of 30" on center.

44. Failure occurred upon pressurization at 180 psf. System passed 165 psf resistance cycle.