



**VersiWeld® (TPO) 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 (FM) test criteria as well as specific UL and FM code approvals achieved with Versico's VersiWeld™ Adhered and Mechanically-Fastened 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, VersiFleece AC, VersiFlex and VersiGard Roofing Systems are identified in separately published Code Approval Guides.

Code ratings are categorized by roof system type (Mechanically-Fastened Adhered) and are separated into two sections: UL Approvals and FM Approvals. UL rated roof assemblies are grouped according to deck type (non-combustible or combustible) and are further categorized according to deck type and the specific type of construction (new, recover, tear-off or retrofit).

The listed assemblies contained in the 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.

GENERAL GUIDELINES FOR UL AND FM APPROVALS CODE COMPLIANCE

No table of figures entries found. 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 systems must be UL and/or FM approved and must have been tested together as part of a complete roof assembly.

In addition to the code approval listings in this guide, information pertaining to approved assemblies can also be obtained directly from UL and FM as follows:

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

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 use 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 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) rating.

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 resistance of roofing system assemblies. Insulation fastening patterns are included in this document. The fastening patterns are approved for use by Versico.

FM 4474

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 manufactures 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.

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

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope	
				VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
1	Non-Combustible	VersiCore or SecurShield- any combination, any thickness	N/A	1/2"	1-1/2"
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1/2"	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"
4		Insulfoam SP or Insulfoam SP over Insulfoam EPS, any thickness and density.	N/A	1"	1"
5		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	1/2"
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber Board & Ultralight Glass Mat Roof Boards	3" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
7		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck/DensDeck Prime Roof Boards	3" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell Glass Mat/DEXcell FA Glass Mat Roof Boards	3" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" Recovery Board	1-1/2"	1-1/2"
10		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or Minimum 1-1/2" DuraFaceR	1-1/2"	1-1/2"
11		Any UL Classified Versico Polyisocyanurate Insulation- any combination, any thickness (OPTIONAL)	1/2" VersiCore HD	1/2"	1-1/2"
12		Any UL Classified Insulation, any combination, any thickness	Versico FR Base Sheet	1"	1"
13		Any UL Classified Insulation, any thickness (OPTIONAL)	Min. 5/16" DuraStorm VSH	1/2"	1-1/2"
14	Cellular Lightweight Concrete	N/A	N/A	1-1/2"	1-1/2"
15	Precast concrete with grouted joints	N/A	N/A	1-1/2"	1-1/2"
16	Structural (poured-in-place) concrete	N/A	N/A	1-1/2"	1-1/2"

VersiWeld® (TPO) Mechanically-Fastened or Induction Welding Roofing Systems

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

Membrane Type:
 .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld 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	
				VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
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"	1-1/2"
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"	1-1/2"
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"	1-1/2"
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" VersiWeld 2-1/2" VersiWeld PLUS	3"
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" VersiWeld 2-1/2" VersiWeld PLUS	4"
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" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
13	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck/DensDeck Prime Roof Board (2)	3" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
14	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell Glass Mat/DEXcell FA Glass Mat Roof Board (2)	3" VersiWeld 2-1/2" VersiWeld PLUS	Unlimited
15	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness. (OPTIONAL)	N/A	1/2"	3/4"

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope
				VersiWeld VersiFleece FR- Mechanically Fastened
Combustible - ANSI/UL 790 Spread of Flame Test-Class A				
14	6-mil polyethylene film (OPTIONAL)	N/A	N/A	1/4"

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

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld 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	
				VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
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	Inverted G3 cap sheet	N/A	N/A	1/2"	1/2"
System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope	
				VersiWeld VersiFleece FR- Mechanically Fastened	
Combustible - ANSI/UL 790 Spread of Flame Test-Class B					
3	6-mil polyethylene film (OPTIONAL)	N/A	N/A	1/2"	

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

Membrane Type:
 .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld 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	
				VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
Non-Combustible or Combustible - 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	Unlimited
2	N/A	Any UL Classified insulation, any combination, any thickness. (OPTIONAL)	Minimum 5/16" DuraStorm VSH (2)	1/2"	1/2"

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

System ID	Deck Type	Existing Substrate	Insulation	Maximum Slope	
				VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
1	Non-Combustible and Combustible	Any Class A, B or C roof covering system.	One layer of Versico FR Base Sheet (OPTIONAL)	1/2"	3/4"
2	Non-Combustible and 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"
3	Non-Combustible	Existing 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"

Field Sheet Securement Criteria For VersiCore and SecurShield
(Please see notes 10, 11, 12 and 15)

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165 136102-0-0	1-165 136102-0-0	1-165 136102-0-0	1-165 136102-0-0
		12"	1-105 136101-0-0	1-105 136101-0-0	-	-
6 Feet	HPVX/HPVX Plate	12"	1-90 392183-0-0	1-90 392183-0-0	-	-
8 Feet	HPVX /HPVX Plate	6"	1-75 350392-0-0	1-75 350392-0-0	1-135 12496-0-0	1-135 12496-0-0
		12"	1-75 392184-0-0	1-75 392184-0-0	1-90 12562-0-0	1-90 12562-0-0
10 Feet	HPVX /HPVX Plate	6"	-	-	1-90 107469-0-0	1-90 107469-0-0
		12"	-	-	1-75 107470-0-0	1-75 107470-0-0
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 12788-0-0	1-90 12788-0-0
10 Feet split with TPO Rhino Plates at 4'9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90 554061-0-0	1-90 554061-0-0	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	1-75 553284-0-0	1-75 553284-0-0
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 140550-0-0	1-60 140550-0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120 518767-0-0	1-120 518767-0-0
		12"	1-60 579154-0-0	1-60 579154-0-0	-	-

Field Sheet Securement Criteria For VersiCore and SecurShield Recover
(Please see notes 10, 11, 12 and 15)

Membrane .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0
		12"	1-105 240337-0-0	1-105 240337-0-0	1-105 240337-0-0	1-105 240337-0-0
6 Feet	HPVX/HPVX Plate	12"	1-90 392185-0-0	1-90 392185-0-0	1-90 392185-0-0	1-90 392185-0-0
8 Feet	HPVX /HPVX Plate	6"	-	-	1-135	1-135
		12"	1-75 392186-0-0	1-75 392186-0-0	1-90	1-90
10 Feet	HPVX /HPVX Plate	6"	-	-	1-90	1-90
		12"	-	-	1-75	1-75
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 13768-0-0	1-90 13768-0-0
10 Feet split with TPO Rhino Plates at 4'9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90	1-90	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	-	-
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 140549-0-0	1-60 140549-0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120	1-120
		12"	1-60	1-60	-	-

Field Sheet Securement Criteria For SecurShield HD and VersiCore HD
(Please see notes 10, 11, 12 and 15)

Membrane .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0
		12"	1-105	1-105	1-105	1-105
6 Feet	HPVX/HPVX Plate	12"	1-90 393936-0-0	1-90 393936-0-0	1-90 393936-0-0	1-90 393936-0-0
8 Feet	HPVX /HPVX Plate	6"	1-75 332741-0-0	1-75 332741-0-0	1-135 281881-0-0	1-135 281881-0-0
		12"	1-75 393938-0-0	1-75 393938-0-0	1-90 281972-0-0	1-90 281972-0-0
10 Feet	HPVX /HPVX Plate	6"	-	-	1-75 330173-0-0	1-75 330173-0-0
		12"	-	-	1-75	1-75
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 281885-0-0	1-90 281885-0-0
10 Feet split with TPO Rhino Plates at 4'9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90	1-90	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	-	-
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 282218-0-0	1-60 282218-0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120 582334-0-0	1-120 582334-0-0
		12"	1-60 581763-0-0	1-60 581763-0-0	-	-

Field Sheet Securement Criteria For SecurShield HD and VersiCore HD Recover
(Please see notes 10, 11, 12 and 15)

Membrane .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0	1-165 352663-0-0
		12"	1-105	1-105	1-105	1-105
6 Feet	HPVX/HPVX Plate	12"	1-90 392185-0-0	1-90 392185-0-0	1-90 392185-0-0	1-90 392185-0-0
8 Feet	HPVX /HPVX Plate	6"	-	-	1-135	1-135
		12"	1-75 392186-0-0	1-75 392186-0-0	1-90	1-90
10 Feet	HPVX /HPVX Plate	6"	-	-	1-90	1-90
		12"	-	-	1-75	1-75
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 12800-0-0	1-90 12800-0-0
10 Feet split with TPO Rhino Plates at 4'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90	1-90	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	-	-
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 140549-0-0	1-60 140549-0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120	1-120
		12"	1-60	1-60	-	-

Field Sheet Securement Criteria For DensDeck/Securock/DEXcell Glass Mat
(Please see notes 10, 11, 12 and 15)

Membrane .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165 136104-0-0	1-165 136108-0-0	1-165 136104-0-0	1-165 136108-0-0
		12"	1-105 136103-0-0	1-105 136107-0-0	-	-
6 Feet	HPVX/HPVX Plate	12"	1-90 392179-0-0	1-90 393937-0-0	-	-
8 Feet	HPVX /HPVX Plate	6"	1-75 349303-0-0	-	1-135 12511-0-0	1-135 12511-0-0
		12"	1-75 392180-0-0	1-75 393939-0-0	1-90 12565-0-0	1-90 12565-0-0
10 Feet	HPVX /HPVX Plate	6"	-	-	1-90	1-90
		12"	-	-	1-75 12546-0-0	1-75 12546-0-0
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 12792-0-0	1-90 12792-0-0
10 Feet split with TPO Rhino Plates at 4'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90	1-90	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	-	-
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 140537 -0-0	1-60 140537 -0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120 582338-0-0	1-120
		12"	1-60 581765-0-0	1-60	-	-

Field Sheet Securement Criteria For Recovery Board
(Please see notes 10, 11, 12 and 15)

Membrane .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width (11)	Fastener/Plate (12)	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) (13) or Structural Concrete	
			VersiWeld	VersiWeld PLUS	VersiWeld	VersiWeld PLUS
4 Feet (14)	HPVX /HPVX Plate	6"	1-165	1-165	1-165	1-165
		12"	1-105 136113-0-0	1-105 136113-0-0	1-105 136113-0-0	1-105 136113-0-0
6 Feet	HPVX/HPVX Plate	12"	1-90	1-90	1-90	1-90
8 Feet	HPVX /HPVX Plate	6"	1-75 350380-0-0	1-75 350380-0-0	1-135 14053-0-0	1-135 14053-0-0
		12"	1-75	1-75	1-90 14102-0-0	1-90 14102-0-0
10 Feet	HPVX /HPVX Plate	6"	-	-	1-90	1-90
		12"	-	-	1-75 13545-0-0	1-75 13545-0-0
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-90 13741-0-0	1-90 13741-0-0
10 Feet split with TPO Rhino Plates at 4'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	12"	1-90	1-90	-	-
12 Feet	HPVX /HPVX Plate	6"	-	-	-	-
		12"	-	-	-	-
	HPV-XL /HPV-XL Plate	6"	-	-	-	-
		12"	-	-	1-60 140537-0-0	1-60 140537-0-0
16 Feet split with TPO Rhino Plates at 7'-9"	HPVX/HPVX Plate and HPVX/TPO Rhino	6"	-	-	1-120 582335-0-0	1-120 582335-0-0
		12"	1-60 581764-0-0	1-60 581764-0-0	-	-

FM Approvals – Induction Welding Grid Securement

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Deck Type	Fastener/Plate	Fasteners per 4' x 8' Board	Rating	Insulation	RhinoBond	IsoWeld
Min. 22 gauge Grade C Steel Deck	HPV/Induction Plate	Zone 1 - 6	1-90	SecurShield HD / VersiCore HD	553408-0-0	N/A
		Zone 2 - 9		VersiCore/SecurShield	553278-0-0	N/A
		Zone 3 - 12		DensDeck / Securock / DEXcell	553280-0-0	N/A
	HPVX/Induction Plate	Zone 1 - 6	1-90	SecurShield HD / VersiCore HD	312416-0-0	
		Zone 2 - 9		VersiCore/SecurShield	222555-0-0	378853-0-0
		Zone 3 - 12		DensDeck / Securock / DEXcell	312399-0-0	
	HPVX/Induction Plate	Zone 1 - 8	1-105 (RhinoBond) 1-90 (IsoWeld)	SecurShield HD / VersiCore HD	312412-0-0	
		Zone 2 - 12		VersiCore/SecurShield	222553-0-0	378881-0-0
		Zone 3 - 16		DensDeck / Securock / DEXcell	312325-0-0	
	HPVX/RhinoBond	Zone 1 - 12	1-135 (.060" or .080" only)	SecurShield HD / VersiCore HD	551502-0-0	N/A
		Zone 2 - 18		VersiCore/SecurShield	502832-0-0	N/A
		Zone 3 - 24		DensDeck / Securock / DEXcell	551500-0-0	N/A
	HPVX/IsoWeld	Zone 1 - 10	1-150	SecurShield HD / VersiCore HD	N/A	
		Zone 2 - 15		VersiCore/SecurShield	N/A	378890-0-0
		Zone 3 - 20		DensDeck / Securock / DEXcell	N/A	
	HPVX/RhinoBond	Zone 1 - 16	1-165	SecurShield HD / VersiCore HD	387011-0-0	
		Zone 2 - 24		VersiCore/SecurShield	386367-0-0	
		Zone 3 - 32		DensDeck / Securock / DEXcell	387010-0-0	
Min. 22 gauge Grade E Steel Deck	HPVX / RhinoBond	Zone 1 - 8	1-120	SecurShield HD / VersiCore HD	312414-0-0	
		Zone 2 - 12		VersiCore/SecurShield	222375-0-0	
		Zone 3 - 16		DensDeck / Securock / DEXcell	312376-0-0	
	HPVX/Induction Plate	Zone 1 - 16	1-195	SecurShield HD / VersiCore HD	387159-0-0	
		Zone 2 - 24		VersiCore/SecurShield	387161-0-0	441954-0-0
		Zone 3 - 32		DensDeck / Securock / DEXcell	387158-0-0	
Concrete	MP 14-10/Induction Plate	Zone 1 - 6	1-90	SecurShield HD / VersiCore HD	312579-0-0	
		Zone 2 - 9		VersiCore/SecurShield		378850-0-0
		Zone 3 - 12		DensDeck / Securock / DEXcell	312577-0-0	
		Zone 1 - 8	1-105 (RhinoBond) 1-90 (IsoWeld)	SecurShield HD / VersiCore HD		
		Zone 2 - 12		VersiCore/SecurShield	311967-0-0	378839-0-0
		Zone 3 - 16		DensDeck / Securock / DEXcell		
		Zone 1 - 8	1-120	SecurShield HD / VersiCore HD	312569-0-0	
		Zone 2 - 12		VersiCore/SecurShield		
		Zone 3 - 16		DensDeck / Securock / DEXcell	312567-0-0	
		Zone 1 - 16	1-195	SecurShield HD / VersiCore HD	387015-0-0	
		Zone 2 - 24		VersiCore/SecurShield	386369-0-0	442231-0-0
		Zone 3 - 32		DensDeck / Securock / DEXcell	387014-0-0	

FM Approvals - Induction Welding Linear Securement

Deck Type	Fastener	Plate	Row Spacings	Fastener Spacing in Rows	Rating
Min. 22 gauge Grade E Steel Deck	HPVX	RhinoBond	5'	12"	1-75 323353-0-0
			5'	6"	1-135 323355-0-0
			10'	6"	1-75 323398-0-0

FM Approvals - Hybrid Induction Welding in Field of sheet (10' & 16' sheet) and In-Seam Securement

Deck Type	Fastener	Plate	Row Spacings	Fastener Spacing in Rows	Rating
Min. 22 gauge Grade C Steel Deck	HPVX	RhinoBond/HPVX Plate	5'	12"	1-90 554061-0-0
Min. 22 gauge Grade C Steel Deck	HPVX	RhinoBond/HPVX Plate	8'	12"	1-60 579154-0-0
Min. 22 gauge Grade E Steel Deck	HPVX	RhinoBond/HPVX Plate	8'	6"	1-120 581767-0-0

90 psf Uplift Resistance Test (1-90 Equivalency on 12' x 24' Table)

Wind uplift testing has been completed in accordance with the FM 4470 Test Procedure which is witnessed and certified by Architectural Testing, Incorporated, an industry recognized Independent Testing Laboratory. Over a 22 gauge Grade E Steel roof deck, the following results were obtained using HPVX Fasteners and HPVX Plate Plates for membrane securement. The Performance Test Report is on file and available from Versico.

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane .

Deck Type	Field Membrane Width	Fastener Spacing	Insulation Type and Thickness	Insulation Fastening
Min. 22 gauge	10' See notes 16 and 17.	12"	Per Versico Specification	Per Versico Specification

FM Class A Roof Deck Construction and Insulation Approvals (18)

Membrane Type:
 .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Deck Type	Insulation (19)	Insulation Thickness	Maximum Slope for ASTM E-108 Class "A" Rating	
			VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS
New Construction/Tear off: Steel (Minimum 22 gauge) Structural Concrete Retrofit (No Tear off) (21): Structural Concrete	Versico Recovery Board	1/2" Min.	1-1/2" (with Recovery Board or Securock overlay) 5" (with DensDeck/DEXcell overlay and VersiWeld Standard) 3" (with DensDeck/DEXcell overlay and VersiWeld PLUS)	2" (with Recovery Board or Securock overlay) 5" (with DensDeck/DEXcell overlay)
	Versico Recovery Board (min. 1/2"), DensDeck (min. 1/4"), Securock (min. 1/4") or DEXcell Glass-Mat (min. 1/4") Over: FM Approved Insulation (20)	Refer to FM RoofNAV website		
	Versico Polyisocyanurate VersiCore or SecurShield	1-1/2"-12"	1/2"	1-1/2"
	Versico SecurShield HD or SecurShield HD Plus Over: FM Approved Insulation (20)	1/2" / Refer to FM RoofNAV website		
Retrofit (No Tear off) (21): Steel (Minimum 22 gauge)	Versico Recovery Board	1/2"-1"	1-1/2"	2"
	Versico Polyisocyanurate VersiCore or SecurShield	1" Max.	1/2"	1-1/2"
	Versico SecurShield HD or SecurShield HD Plus	1/2"		

VersiWeld® (TPO) Mechanically Fastened Roofing Systems

FM 4474 Approvals

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Width	Fastener/Plate	Spacing	Min. 22 Gauge Grade C Steel (33 ksi)		Min. 22 Gauge Grade E Steel (80 ksi) or Structural Concrete		Wood Deck	Min. 18 Gauge Steel
			VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS	VersiWeld, VersiWeld PLUS or Spectro-Weld	VersiWeld HS		
4 Feet	HPVX /HPVX Plate	6"	1-165	-	1-165	-	-	-
		12"	1-105	-	1-105	-	-	-
6 Feet	HPX/HPVX Plate	12"	1-90	-	-	-	-	-
8 Feet	HPVX /HPVX Plate	6"	1-105	-	1-135	1-120	1-90	-
		12"	1-75	1-60	1-90	1-75	1-75	-
	HPV-XL /HPV-XL Plate	12"	1-90	1-75	1-90	1-75	-	-
10 Feet	HPVX /HPVX Plate	6"	1-105	1-90	1-120	1-75	-	-
		9"	1-75	1-60	1-90	1-90	-	-
		12"	1-60	-	1-75	1-75	-	1-90
	HPV-XL /HPV-XL Plate	6"	1-120	-	1-120	-	-	-
		12"	1-60	-	1-90*	-	-	-
12 Feet	HPVX /HPVX Plate	6"	1-105	-	1-120	1-75	-	-
		9"	1-75	1-60	1-75	-	-	-
		12"	1-60	-	1-60	1-60	-	-
	HPV-XL /HPV-XL Plate	6"	1-120	-	1-120	-	-	-
		9"	1-75	-	1-75	-	-	-
		12"	1-60	-	1-60	-	-	-

*Max 1-75 using Spectro-Weld

VersiWeld® 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 VersiWeld™ Mechanically-Fastened Roofing System over non-combustible decks depending on the membrane selected.

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.

As a standard FM Approvals requirement, additional membrane and insulation securement is necessary in the corner and/or perimeter areas as outlined in FM Property 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	Coverboard	Rating	VersiWeld, VersiWeld PLUS or Spectro-Weld	Rating	VersiWeld HS
60 Inches	Purlin/HPVX Plate	6"	VersiCore HD/SecurShield HD	1-135	272454-0-0	1-120	281696-0-0
			Recovery Board	1-135	272491-0-0	1-120	272501-0-0
			VersiCore/SecurShield				
			DensDeck / SECUROCK / DEXcell	1-135	272456-0-0	1-120	272502-0-0
		12"	VersiCore HD/SecurShield HD	1-120	393577-0-0	1-75	281716-0-0
			Recovery Board	1-60	242483-0-0	1-75	272504-0-0
			VersiCore/SecurShield	1-120	399954-0-0		
			DensDeck / SECUROCK / DEXcell	1-75	272513-0-0	1-75	272504-0-0
120 Inches	Purlin/HPVX Plate	6"	VersiCore HD/SecurShield HD	1-120	393574-0-0	1-75	281692-0-0
			Recovery Board	1-105	272661-0-0	1-75	272497-0-0
			VersiCore/SecurShield	1-120	399955-0-0		
			DensDeck / SECUROCK / DEXcell	1-120	272710-0-0	1-75	272498-0-0
		12"	VersiCore HD/SecurShield HD	1-60	393572-0-0	1-60	281694-0-0
			Recovery Board	1-60	272632-0-0	1-60	272499-0-0
			VersiCore/SecurShield	1-60	399950-0-0	1-60	
			DensDeck / SECUROCK / DEXcell	1-60	272642-0-0	1-60	379730-0-0
138 inches	Purlin/HPVX Plate	6"	VersiCore HD/SecurShield HD	1-120	393574-0-0	1-75	281692-0-0
			Recovery Board	1-105	272661-0-0	1-75	272497-0-0
			VersiCore/SecurShield	1-120	399955-0-0		
			DensDeck / SECUROCK / DEXcell	1-105	272663-0-0	1-75	272498-0-0

FM Approvals – Metal Retrofit with Pressure-Sensitive RUSS Strip

Purlin Spacing	Fastener/Plate	Spacing	Coverboard	Rating	VersiWeld, VersiWeld PLUS or Spectro-Weld	Rating	VersiWeld HS
60 Inches	Purlin/HPVX Plate	12"	VersiCore HD/SecurShield HD	1-120	272568-0-0	1-75	281720-0-0
			Recovery Board			1-120	272587-0-0
			VersiCore/SecurShield				
			DensDeck / SECUROCK / DEXcell	1-120	272568-0-0	1-120	379735-0-0
120 Inches	Purlin/HPVX Plate	6"	VersiCore HD/SecurShield HD			1-120	281719-0-0
			Recovery Board			1-120	272578-0-0
			VersiCore/SecurShield				
			DensDeck / SECUROCK / DEXcell	1-120	272563-0-0	1-120	212578-0-0
120 Inches	Purlin/HPVX Plate	12"	VersiCore HD/SecurShield HD			1-75	281722-0-0
			Recovery Board			1-75	379736-0-0
			VersiCore/SecurShield				
			DensDeck / SECUROCK / DEXcell	1-75	272576-0-0	1-75	379736-0-0

FM Approvals – Induction Welding Metal Retrofit (.045" Min. thickness membrane)

Deck Type	46	Plate	Row Spacings	Fastener Spacing in Rows	Rating	Coverboard	Rating	RoofNAV Number
Structural Steel Purlin (Metal Retrofit)	Purlin	Rhino Bond	5'	12"	1-75	VersiCore HD / SecurShield HD	1-75	408547-0-0
						Recovery Board		373502-0-0
						VersiCore/SecurShield		373503-0-0
						DensDeck / SECUROCK / DEXcell		373500-0-0
			5'	6"	1-135	VersiCore HD / SecurShield HD	1-135	408560-0-0
						Recovery Board		373506-0-0
						VersiCore/SecurShield		373507-0-0
						DensDeck / SECUROCK / DEXcell		373504-0-0
			10'	6"	1-75	VersiCore HD / SecurShield HD	1-75	408558-0-0
						Recovery Board		373499-0-0
						VersiCore/SecurShield		373497-0-0
						DensDeck / SECUROCK / DEXcell		373496-0-0

FM Approvals – Induction Welding Metal Retrofit (.060" Min. thickness membrane)

Deck Type	Fastener	Plate	Row Spacings	Fastener Spacing in Rows	Rating	Coverboard	Rating	RoofNAV Number
Structural Steel Purlin (Metal Retrofit)	HP RetroDriller	Rhino Bond	5'	12"	1-90	VersiCore HD / SecurShield HD	1-90	487712-0-0
						VersiCore		487712-0-0
						SecurShield		487713-0-0
						DensDeck / SECUROCK / DEXcell		487715-0-0
			10'	6"	1-105	VersiCore HD / SecurShield HD	1-105	487716-0-0
						VersiCore		487716-0-0
						SecurShield		487717-0-0
						DensDeck / SECUROCK / DEXcell		487719-0-0

VersiWeld® (TPO) Adhered Roofing Systems

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

Membrane Adhesive: VersiWeld Bonding Adhesive, Low VOC Bonding Adhesive, Low VOC Bonding Adhesive 1168 or Cav-Grip 3V

.045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane

Membrane Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

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

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

VersiWeld® (TPO) Adhered Roofing Systems

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

Membrane Adhesive: VersiWeld Bonding Adhesive, Low VOC Bonding Adhesive, Low VOC Bonding Adhesive 1168 or Cav-Grip 3V

.045" or .060" VersiWeld Standard Reinforced Membrane

Membrane Type: .045" or .060" VersiWeld HS Reinforced Membrane

.080" VersiWeld PLUS Reinforced Membrane

.060" or .080" Spectro-Weld 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		
				VersiWeld or Spectro-Weld	VersiWeld HS	VersiWeld PLUS
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	1/4"	1/2"	1/4"
2	Minimum 1/4" DensDeck or DensDeck Prime Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/4"	1/2"	1/4"
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	1/4"	1/2"	1/4"
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	1/4"	1/2"	1/4"
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	1/4"	1/2"	1/4"
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)	1/4"	1/2"	1/4"
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)	1/4"	1/2"	1/4"
8	N/A	Minimum 1-1/2" layer of Insulfoam HD Composite over a minimum 3" layer of Insulfoam EPS. (2)	N/A	1/4"	1/2"	1/4"
9	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber or Ultralight Coated Glass Mat Roof Board (2)	3"	3"	2-1/2" 3" w/ CG3V
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber or Ultralight Coated Glass Mat Roof Board (2)	2"	2"	2"
11	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber or Ultralight Coated Glass Mat Roof Board (2)	3"	4"	2-1/2" 3" w/ CG3V
12	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	3"	Unlimited	2-1/2" 3" w/ CG3V
13	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell FA Glass Mat Roof Board (2)	3"	Unlimited	2-1/2" 3" w/ CG3V
14	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/4"	1/2"	1/4"

VersiWeld® (TPO) Adhered Roofing Systems

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

Membrane Adhesive: VersiWeld Bonding Adhesive, Low VOC Bonding Adhesive, Low VOC Bonding Adhesive 1168 or Cav-Grip 3V

.045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane

Membrane Type: .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld 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		
				VersiWeld or Spectro-Weld	VersiWeld HS	VersiWeld PLUS
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.	N/A	1/4"	1/2"	1/4"

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

Membrane Adhesive: VersiWeld Bonding Adhesive, Low VOC Bonding Adhesive, Low VOC Bonding Adhesive 1168 or Cav-Grip 3V

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld 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		
				VersiWeld or Spectro-Weld	VersiWeld HS	VersiWeld PLUS
Non-Combustible or Combustible - 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	Unlimited	Unlimited
2	N/A	Any UL Classified insulation, any combination, any thickness. (OPTIONAL)	Minimum 5/16" DuraStorm VSH (2)	1/2"	1/2"	1/2"

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Ratings - New Construction

.045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Type:

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	473742-0-0	473742-0-0	295747-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	385909-0-0	-	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	8 (4 sq. ft.) AccuTrac Plates only	1-60	454501-0-0 60 mil only	454502-0-0	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	11 (2.9 sq. ft.) AccuTrac Plates only	1-90	454506-0-0 60 mil only	454507-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	353874-0-0	353916-0-0 (VWBA)	353918-0-0 (VWBA)
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	410040-0-0	410041-0-0	410042-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	353875-0-0	353917-0-0 (LVOC)	353919-0-0 (LVOC)
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-105	485952-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD	6" ribbons or Rig Splatter of DASH	1-105	325939-0-0 (LVOC)	326014-0-0 (LVOC)	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD	6" ribbons or Rig Splatter of DASH	1-150	325941-0-0 (VWBA)	326019-0-0 (VWBA)	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-120	454516-0-0	454520-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD	6" ribbons or Rig Splatter of DASH	1-135	454518-0-0	454524-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD	4" ribbons or Rig Splatter of DASH	1-225	454538-0-0	454540-0-0	-
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	495495-0-0	495495-0-0	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD	4" ribbons or Rig Splatter of DASH	1-165	325940-0-0	326017-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	404100-0-0	404113-0-0	404114-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	1/2" SecurShield HD over VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Ratings - New Construction

.045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Type:

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-225	381226-0-0	382997-0-0	382998-0-0
3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120	438104-0-0	438107-0-0 (VWBA)	438108-0-0
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-225	429710-0-0	429711-0-0	-
Min. 2" ChannelDry EPS adhered to deck with min. 1" Insulfoam EPS adhered to ChannelDry	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-225	490709-0-0	490710-0-0	-
Min. 1-1/2" VersiCore Polyiso	8 (4 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-90	423342-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-90	423338-0-0	-	423333-0-0
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-165 702	437589-0-0	437591-0-0 (VWBA)	437592-0-0
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-240	364507-0-0 (VWBA)	364508-0-0 (VWBA)	364509-0-0 (VWBA)
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-255	429712-0-0	429713-0-0	429714-0-0
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-315	364523-0-0	364618-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-465	538069-0-0	-	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-240	394501-0-0	394540-0-0 (VWBA)	392967-0-0 (VWBA)
				1-225	-	394536-0-0	-
				1-195	394514-0-0	394538-0-0	394548-0-0
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	-	-	-
Concrete Deck/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	519842-0-0	519846-0-0	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" SecurShield HD	12" ribbons of DASH	1-90	466951-0-0	466956-0-0	-
Gypsum Deck Tear-Off/VapAir Seal 725TR 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	12" ribbons or Rig Splatter of DASH	1-90	466952-0-0	466967-0-0	-
Cellular Lightweight Insulating Concrete/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: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	299384-0-0	299384-0-0	299384-0-0
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	427475-0-0	427485-0-0	427477-0-0
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-150	430659-0-0	430661-0-0	-
Concrete Deck							
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-150	389428-0-0	389430-0-0	389429-0-0
Gypsum Deck							
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-90	386254-0-0	386255-0-0	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Plus Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft.)	1-90	325933-0-0	326002-0-0	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	18 (1.8 sq. ft.)	1-120	325934-0-0	326005-0-0 (LVOC)	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft.)	1-150	325936-0-0 (VWBA)	326024-0-0 (VWBA)	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft.)	1-225 (35)	325937-0-0	326010-0-0 (LVOC)	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	353874-0-0	353916-0-0 (VWBA)	353918-0-0 (VWBA)
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	353875-0-0	353917-0-0 (LVOC)	353919-0-0 (LVOC)
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	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons or Rig Splatter of DASH	1-150	-	-	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-120	-	-	-
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	32 (1 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons or Rig Splatter of DASH	1-225	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons or Rig Splatter of DASH	1-165	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD Plus over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	485959-0-0	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	1/2" SecurShield HD Plus over VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Plus Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-225	381226-0-0	382997-0-0	382998-0-0
Min. 2" VersiCore Polyiso or SecurShield over Min. 2" ChannelDry EPS	8 (4 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	486752-0-0	-	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-255	364507-0-0 (VWBA) 364523-0-0 (LVOC)	364508-0-0 (VWBA)	364509-0-0 (VWBA)
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-225	429715-0-0	429716-0-0	429717-0-0
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	538069-0-0	-	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-240	394501-0-0	394540-0-0 (VWBA)	392967-0-0 (VWBA)
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/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-285	519842-0-0	519846-0-0	-
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 725TR 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	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	1/2" SecurShield HD Plus	12 (2.67 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	12 (2.67 sq. ft)	1-75	-	-	-
-	-	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield HD Plus Ratings - Recover

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
-	-	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	466155-0-0 (LVOC)	466156-0-0 (LVOC)	-
-	-	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	466157-0-0 (Cav-Grip 3V)	-	-
-	-	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-225	466158-0-0 (LVOC)	466159-0-0 (LVOC)	-
-	-	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-225	466160-0-0 (Cav-Grip 3V)	-	-
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	325932-0-0	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	4" ribbons of DASH	1-150	-	-	-
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	-	-	-
Gypsum Deck							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage FAST	1/2" SecurShield HD Plus	12" ribbons of DASH	1-90	458915-0-0	458918-0-0	-

FM Approvals
Design "A" Adhered Roofing Systems

VersiCore Polyiso Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					Roof/NAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	-	-	1-90	13221-0-0	13256-0-0	63400-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	-	-	1-90	13222-0-0	13259-0-0	63401-0-0
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	-	-	1-150	135476-0-0 (VWBA)	135474-0-0 (VWBA)	135477-0-0 (VWBA)
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	459121-0-0	459122-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	188863-0-0	188878-0-0	188900-0-0
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-105	454517-0-0	454522-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-150	455832-0-0	455872-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1" VersiCore Polyiso	4" ribbons of DASH	1-270	455869-0-0	455873-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with 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	352057-0-0	551049-0-0	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	567379-0-0	567383-0-0	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	454497-0-0	454498-0-0	-
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)/SureMB 70 SA with 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	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-315	279654-0-0	279656-0-0	279705-0-0
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-480	222698-0-0	222698-0-0	222698-0-0

FM Approvals
Design "A" Adhered Roofing Systems

VersiCore Polyiso Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					Roof/NAV Number		
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-315	462904-0-0	462910-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-465	462905-0-0	462911-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-255	445235-0-0	-	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-315	519988-0-0	519988-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-465	462940-0-0	462944-0-0	-
Min. 1/2" VersiCore Polyiso	Full-Coverage DASH	-	-	1-195	392380-0-0	392380-0-0	392380-0-0
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	392375-0-0	392375-0-0	392375-0-0
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-285	519878-0-0	519879-0-0	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	-	-	1-90	93423-0-0	95309-0-0	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	542332-0-0		
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	459955-0-0	459958-0-0	-
Gypsum Deck Tear-Off VapAir Seal 725TR with Cav-Grip 3V Primer, Versico 702 LV Primer or Versico 702 Primer							
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	-	-	1-90	459954-0-0	459956-0-0	-
Cellular Lightweight Insulating Concrete/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: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
1" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-90	164685-0-0	164687-0-0	164695-0-0
1/2" VersiCore Polyiso	6" ribbons of DASH	-	-	1-90	-	430066-0-0	-
2" VersiCore Polyiso	Loose-Laid	2" VersiCore Polyiso	8 (4 sq. ft)	1-90*	326614-0-0	326615-0-0	326617-0-0
2" VersiCore Polyiso	Loose-Laid	2" VersiCore Polyiso	20 (1.6 sq. ft)	1-150*	326578-0-0	326611-0-0	326613-0-0
Concrete Deck							
1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	-	-	-
Gypsum Deck							
1.5" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	573645-0-0	-	-
1" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	188569-0-0	188569-0-0	188569-0-0
Min. 2" SecurShield or SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	188870-0-0	188870-0-0	188870-0-0
Min. 2" SecurShield or SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-150	135476-0-0 (VWBA)	135476-0-0 (VWBA)	135476-0-0 (VWBA)
Min. 2" SecurShield Only	32 (1 sq. ft.)	-	-	1-225 (35)	399364-0-0	399364-0-0	399364-0-0
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	459121-0-0	459122-0-0	-
Min. 2" VersiCore Polyiso or SecurShield	8 (4 sq. ft.)	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	254630-0-0	254630-0-0	254630-0-0
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" SecurShield	6" ribbons or Rig Splatter of DASH	1-105	454517-0-0	454522-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1" SecurShield	6" ribbons or Rig Splatter of DASH	1-150	455832-0-0	455833-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1" SecurShield	4" ribbons of DASH	1-270	455869-0-0	455873-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with 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	352057-0-0	551049-0-0	-
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	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	DASH - Rig Splatter	1-240	-	-	-
FM 4474							
Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-90	454497-0-0	454498-0-0	-
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	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime	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	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-225	323655-0-0	-	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V Primer, Versico 702 LV Primer or Versico 702 Primer							
Min. 1/2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	-	-	1-315	445235-0-0	462910-0-0	-
Min. 1-1/2" SecurShield	6" ribbons of DASH	-	-	1-465	462905-0-0	462911-0-0	-
Min. 1/2" VersiCore or SecurShield	12" ribbons of DASH	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-300	483491-0-0	483491-0-0	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-315	-	550891-0-0	-
Min. 1/2" SecurShield	6" ribbons of DASH	-	-	1-315	462939-0-0	462943-0-0	-
Min. 1-1/2" SecurShield	6" ribbons of DASH	-	-	1-465	462940-0-0	462944-0-0	-
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of DASH	1-285	519860-0-0	519870-0-0	-
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 725TR 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	459954-0-0	-	-
Cellular Lightweight Insulating Concrete/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: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
1" SecurShield	16 (2 sq. ft)	-	-	1-90	400224-0-0	400225-0-0	400226-0-0
2" SecurShield	Loose-Laid	2" SecurShield	8 (4 sq. ft)	1-90*	326614-0-0	326615-0-0	326617-0-0
2" SecurShield	Loose-Laid	2" SecurShield	20 (1.6 sq. ft)	1-150*	326578-0-0	326611-0-0	326613-0-0
2" SecurShield	Loose-Laid	2" SecurShield	32 (1 sq. ft)	1-270*	326667-0-0	326670-0-0	326673-0-0
Concrete Deck							
1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-
Gypsum Deck							
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-	-
1" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Securock Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12 (2.66 sq. ft.)	1-75	269962-0-0 (LVOC)	269964-0-0 (LVOC)	269966-0-0 (LVOC)
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" Securock Gyp Fiber	10 (3.2 sq. ft.) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 3/8" Securock Gyp Fiber	8 (4 sq. ft.) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	10 (3.2 sq. ft.)	1-90	269985-0-0	269986-0-0 (LVOC)	269988-0-0 (LVOC)
None	None	Min. 1/2" Securock Gyp Fiber	10 (3.2 sq. ft.)	1-90	409328-0-0	409329-0-0	409330-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	8 (4 sq. ft.) SecurFAST Plate	1-90	443300-0-0	443314-0-0	443303-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber	6 (5.33 sq. ft.) SecurFAST Plate	1-75	443360-0-0	443361-0-0	443350-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" Securock Gyp Fiber	8 (4 sq. ft.)	1-90	269989-0-0 (LVOC)	269990-0-0 (LVOC)	269992-0-0 (LVOC)
None	None	Min. 5/8" Securock Gyp Fiber	8 (4 sq. ft.)	1-90	409353-0-0	409354-0-0	409355-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" Securock Gyp Fiber	6 (5.33 sq. ft.)	1-90	443331-0-0	443332-0-0	443334-0-0
Min. 1" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber	20 (1.6 sq. ft.)	1-150	269993-0-0	269994-0-0	269996-0-0 (LVOC)
None	None	Min. 1/2" Securock Gyp Fiber	20 (1.6 sq. ft.)	1-150	409371-0-0	409372-0-0	409373-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	32 (1 sq. ft.)	1-255	239271-0-0 (LVOC)	239272-0-0 (LVOC)	269952-0-0 (LVOC)
None	None	Min. 1/2" Securock Gyp Fiber	32 (1 sq. ft.)	1-255	409388-0-0	409389-0-0	409390-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-90	301750-0-0	301750-0-0	301753-0-0 (LVOC)
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat over Min. 1- 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	437158-0-0	437158-0-0	
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-90	488181-0-0	488180-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat over Min. 1- 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	542331-0-0	542331-0-0	
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-120	455769-0-0 (VWBA)	455773-0-0	
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat over Min. 1" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-120	495506-0-0	495506-0-0	
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	6" ribbons or Rig Splatter of DASH	1-135	455772-0-0	455772-0-0	
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat over Min. 1" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-135	500704-0-0	500704-0-0	
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" Securock	4" ribbons or Rig Splatter of DASH	1-225	455811-0-0	455811-0-0	
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" Securock over Min. 1" VersiCore Polyiso	4" ribbons or Rig Splatter of DASH	1-225	500705-0-0	500705-0-0	
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1/4" Securock over Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Securock Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat over Min. 1- 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	327597-0-0	396795-0-0	437319-0-0
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	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 901G or 1201G Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 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. 1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	522132-0-0	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons of DASH	1-315	307662-0-0 (VWBA)	307751-0-0 (VWBA)	307702-0-0 (VWBA)
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	Hot Asphalt	1-495	282246-0-0	-	-
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	10 (3.2 sq. ft.)	1-90	393508-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock Gyp Fiber or Ultralight Coated Glass Mat	32 (1 sq. ft.)	1-255	398846-0-0	398848-0-0	398849-0-0
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-255	333171-0-0	364616-0-0 (LVOC)	364627-0-0 (LVOC)
Min. 1" Insulfoam EPS	12" ribbons of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons of DASH	1-315	501707-0-0	501756-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" Securock	6" ribbons of DASH	1-465	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Securock Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC Bonding Adhesive (LVOC)

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

Base Insulation Layer (Max. thickness 3/4")	Base Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso or Min 1-1/2" SecurShield	12" ribbons of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons of DASH	1-255	394468-0-0	394544-0-0	394544-0-0
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		6" ribbons of DASH	1-465	-	-	-
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso or Min 1-1/2" SecurShield	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-285	519845-0-0	519845-0-0	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	8 (2 sq. ft)	Min. 1/4" Securock	12" ribbons of DASH	1-90	466958-0-0	466958-0-0	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip 3V, 702-LV 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	466959-0-0	466963-0-0	-
Cellular Lightweight Insulating Concrete/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	-	-	-
Min. 1" VersiCore Polyiso	4" ribbons of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-135	507749-0-50916	507749-0-50916	-
Cellular Lightweight Insulating Concrete/Structural Concrete Decking							
Min. 1" VersiCore Polyiso	4" ribbons of DASH	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons or Rig Splatter of DASH	1-135	-	-	310049-0-50916

FM Approvals
Design "A" Adhered Roofing Systems

Securock Ratings - Recover

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
1/2" VersiCore Polyiso	10 (3.2 sq. ft)	Min. 1/4" Securock Gyp Fiber or Ultralight Coated Glass Mat	12" ribbons of DASH	1-90	301766-0-0 (LVOC)	288835-0-0 (LVOC)	288837-0-0 (LVOC)

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					Roof/NAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	92102-0-0	95279-0-0	92103-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-60	92073-0-0	95221-0-0	92074-0-0
None	None	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	409328-0-0	409329-0-0	409330-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	5/8" DensDeck Prime	8 (4 sq. ft)	1-90	92098-0-0	95274-0-0	92099-0-0
None	None	5/8" DensDeck Prime	8 (4 sq. ft)	1-90	409353-0-0	409354-0-0	409355-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq.ft)	1-90	388249-0-0	388251-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" DensDeck Prime	18 (1.8 sq. ft)	1-105	382309-0-0	382310-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft)	1-135	383699-0-0	383700-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-150	383709-0-0	383710-0-0	-
None	None	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-150	409371-0-0	409372-0-0	409373-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-165	387927-0-0	384594-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-180 (34)	384593-0-0	384595-0-0	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-255 (35)	387928-0-0	387931-0-0	-
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	437158-0-0	437158-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	437158-0-0	437158-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	467869-0-0	467869-0-0	467869-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	542331-0-0	542331-0-0	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-120	455769-0-0	455772-0-0	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-120	495506-0-0	495506-0-0	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime	6" ribbons or Rig Splatter of DASH	1-135	455722-0-0	455723-0-0 (VWBA)	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-135	500704-0-0	500704-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" DensDeck Prime	4" ribbons or Rig Splatter of DASH	1-225	455811-0-0	455811-0-0	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1" VersiCore Polyiso	4" ribbons or Rig Splatter of DASH	1-225	500705-0-0	500705-0-0	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	303447-0-0	303448-0-0	303451-0-0

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					Roof/NAV Number		
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	327597-0-0	396795-0-0	437319-0-0
Min. 1/2" DensDeck Prime	20 (1.6 sq. ft.)	1/2" DensDeck Prime over Min. 1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	582700-0-0	-	-
Min. 1/2" DensDeck Prime	32 (1 sq. ft.)	1/2" DensDeck Prime over Min. 1/2" VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime	20 (1.6 sq. ft.)	1/2" DensDeck Prime over Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	522132-0-0	-	-
Min. 1/2" DensDeck Prime	20 (1.6 sq. ft.)	1/2" DensDeck Prime over Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Concrete Deck							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage FAST	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-195	298143-0-0	298143-0-0	298143-0-0
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-315	333171-0-0	364616-0-0	-
Min. 1" Insulfoam EPS	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-315	501707-0-0	501756-0-0	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-465	512628-0-0	512629-0-0	-

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					Roof/NAV Number		
Concrete Deck/SureMB 90TG or 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	1-315	-	434646-0-0	-
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	-	-	-
Concrete Deck/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	-	519845-0-0	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH		12" ribbons of DASH	1-90	173520-0-0	173525-0-0	173520-0-0
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	466958-0-0	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip 3V, 702-LV 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	466959-0-0	466963-0-0	-
Cellular Lightweight Insulating Concrete/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	-	-	-
Min. 1" VersiCore or SecurShield	4" ribbons of Dual Tank	Min. 1/4" DensDeck Prime	12" ribbons of Dual Tank	1-135	507749-0-50918	507749-0-50918	

FM Approvals
Design "A" Adhered Roofing Systems

DensDeck Prime Ratings - Recover

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck							
Min. 1/2" VersiCore Polyiso	20 (1.6 sq. ft)	Min. 1/4" DensDeck Prime	Hot Asphalt	1-90	265212-0-0	265212-0-0	265212-0-0
-	-	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	430067-0-0	430068-0-0	-
Min. 1" VersiCore Polyiso or Min 1" SecurShield	Loose Laid	Min. 1/4" DensDeck Prime	16 (2 sq. ft.)	1-90	391004-0-0	391442-0-0	391443-0-0

FM Approvals

DEXcell FA Glass Mat Ratings - New Construction

.045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Type:

Membrane Adhesive:

VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/4" DEXcell FA	12 (2.67 sq. ft)	1-75	269962-0-0	269966-0-0	269968-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DEXcell FA	10 (3.2 sq. ft.)	1-90	269985-0-0	364909-0-0	269988-0-0 (LVOC)
None	None	1/2" DEXcell FA	10 (3.2 sq. ft.)	1-90	409328-0-0	409329-0-0	409330-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	10 (3.2 sq. ft.)	1/4" DEXcell FA	12" ribbons of DASH or Rig Splatter	1-90	301735-0-0	301750-0-0	301753-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	10 (3.2 sq. ft.)	1/4" DEXcell FA over 1-1/2" VersiCore Polyiso	12" ribbons of DASH or Rig Splatter	1-90	437158-0-0	437158-0-0	467774-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/4" DEXcell FA	12" ribbons of DASH or Rig Splatter	1-90	488180-0-0	488180-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/4" DEXcell FA over 1-1/2" VersiCore Polyiso	12" ribbons of DASH or Rig Splatter	1-90	542331-0-0	542331-0-0	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	1/4" DEXcell FA over VersiCore Polyiso	12" ribbons of DASH	1-90	294787-0-0	473741-0-0	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DEXcell FA over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	327597-0-0	396795-0-0	437319-0-0
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DEXcell over Insulfoam Roofing EPS	6" ribbons of DASH	1-90	-	439215-0-0	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	1/4" DEXcell over VersiCore Polyiso	12" ribbons of DASH	1-90	470106-0-0	470108-0-0	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DEXcell over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
FM 4474							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH or Rig Splatter	1/4" DEXcell FA	12" ribbons of DASH or Rig Splatter	1-315	307751-0-0	307751-0-0	307702-0-0
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH or Rig Splatter	1/4" DEXcell FA	12" ribbons of DASH or Rig Splatter	1-315	333171-0-0	-	364627-0-0 (1-255)
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/4" DEXcell FA	12" ribbons of DASH	1-315	-	434646-0-0	-
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/4" DEXcell FA	12" ribbons of DASH	1-285	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/4" DEXcell FA	12" ribbons of DASH	1-90	-	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/4" DEXcell FA	12" ribbons of DASH	1-90	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	1/4" DEXcell FA	12 (2.67 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	1/4" DEXcell FA	16 (2 sq. ft)	1-90	-	-	-

FM Approvals

DEXcell FA Glass Mat Ratings - Recover

- Membrane Type:** .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane
- Membrane Adhesive:** VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
-	-	Min. 1/2" DEXcell FA	10 (3.2 sq. ft)	1-90	430067-0-0	430068-0-0	-
Min. 1" VersiCore Polyiso or Min 1" SecurShield	Loose Laid	Min. 1/4" DEXcell FA	16 (2 sq. ft.)	1-90	391004-0-0	391442-0-0	391443-0-0

FM Approvals
Design "A" Adhered Roofing Systems

DuraFaceR Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro- Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	427172-0-0 VSH	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	427201-0-0 VSH	-
Min. 1-1/2" Polyiso	Loose laid	Min. 2" DuraFaceR	Full-Coverage DASH	1-90	-	419427-0-0 VSH	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	427202-0-0 VSH	-
Min. 3" Insulfoam VIII over 1/2" Dens Deck	16 (2 sq. ft)	Min. 1-1/2" Insulam OSB	6" ribbons of DASH	1-150	-	434590-0-0 VSH	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with 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	-	434469-0-0 VSH	-
Steel Deck (Min. 22 Gauge)/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	-	-	-
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso or SecurShield	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-315	-	427190-0-0 VSH	-
Min. 2" ChannelDry EPS under Insulfoam VIII	16 (2 sq. ft)	Min. 2" Insulam OSB	6" ribbons of DASH	1-90	427784-0-0	427784-0-0	427786-0-0
-	-	Min. 2" DuraFaceR	12" ribbons of DASH	1-165	-	434470-0-0 VSH	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-LV or 702 Primer							
Min. 1/2" VersiCore Polyiso or SecurShield	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-255	-	427203-0-0	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied with Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso or SecurShield	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-255	-	-	-
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso or SecurShield	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-255	-	-	-
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/VapAir Seal 725TR with 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	-	-	-
Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	Min. 2" DuraFaceR	17 (1.8 sq. ft)	1-150	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Recovery Board Ratings - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC Bonding Adhesive (LVOC)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					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	212437-0-0	-	-
Concrete Deck							
Min. 1-1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/2" Recovery Board	Hot Asphalt	1-300	224117-0-0	224118-0-0	224117-0-0
Cellular Lightweight Insulating Concrete/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

Recovery Board Ratings - Recover

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
 .045" or .060" VersiWeld HS Reinforced Membrane
 .080" VersiWeld PLUS Reinforced Membrane
 .060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck							
Min. 1/2" VersiCore Polyiso	20 (1.6 sq. ft)	1/2" Recovery Board	Hot Asphalt	1-90	265212-0-0	265214-0-0	265212-0-0
Concrete Deck							
Min. 1" VersiCore Polyiso	20 (1.6 sq. ft)	1/2" Recovery Board	Hot Asphalt	1-90	265217-0-0	265218-0-0	265217-0-0

FM Approvals
Design "A" Adhered Roofing Systems

DuraStorm VSH Ratings - New Construction

.045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Type:

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DuraStorm VSH	8 (4 sq. ft.)	1-90	46386-0-0	-	467658-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DuraStorm VSH	18 (1.8 sq. ft.)	1-120	-	-	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DuraStorm VSH	24 (1.33 sq. ft.)	1-150	-	-	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DuraStorm VSH	24 (1.33 sq. ft.)	1-225 (35)	46386-0-0	-	-
Min. 1-1/2" VersiCore Polyiso or SecurShield	10 (3.2 sq. ft.)	1/2" DuraStorm VSH	64 ribbons of DASH	1-90	554491-0-0 VSH	461118-0-0 VSH	467770-0-0
Min. 1-1/2" VersiCore Polyiso or SecurShield	10 (3.2 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	4" ribbons of DASH	1-90	554492-0-0 VSH	461122-0-0 VSH	467774-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	1/2" DuraStorm VSH	4" ribbons of DASH	1-90	554486-0-0 VSH	461123-0-0 VSH	467771-0-0
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" DuraStorm VSH	4" ribbons of DASH	1-105	554482-0-0 VSH	461115-0-0 VSH	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" DuraStorm VSH	4" ribbons of DASH	1-150	554484-0-0 VSH	461117-0-0 VSH	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	1/2" DuraStorm VSH	12" ribbons of DASH	1-120	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" DuraStorm VSH	6" ribbons of DASH	1-135	-	-	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" DuraStorm VSH	4" ribbons of DASH	1-225	-	-	-
Min. 2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" DuraStorm VSH	4" ribbons of DASH	1-180	-	461214-0-0 VSH	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22 Gauge) VapAir Seal 725TR with Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	466775-0-0	461154-0-0 VSH	467801-0-0
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" DuraStorm VSH over 1/2" VersiCore Polyiso	4" ribbons of DASH	1-90	554517-0-0 VSH	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" DuraStorm VSH over Insulfoam Roofing EPS	6" ribbons of DASH	1-90	465656-0-0	461121-0-0 VSH	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge) SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck (Min. 22 Gauge) SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-

Concrete Deck							
Min. 1-1/2" VersiCore Polyiso or SecurShield	Loose laid	1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	479667-0-0	479668-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-225	465627-0-0	461120-0-0 VSH	-
Min. 2" ChannelDry EPS with Min. 1" Insulfoam EPS in adhesive	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-285	-	490971-0-0 VSH	-
Min. 2" Insulfoam Roofing EPS	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-285	466520-0-0	461129-0-0 VSH	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip 3V, 702-1V or 702 Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-240	466522-0-0	461135-0-0 VSH	-
Min. 2" Insulfoam EPS	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-225	-	461131-0-0 VSH	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-315	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-465	-	-	-
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-240	554512-0-0 VSH	461141-0-0 VSH	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-315	-	-	-
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-465	-	-	-
Concrete Deck/SureMB 70 SA with Cav-Grip 3V Primer							
Min. 1/2" VersiCore Polyiso or Min. 1-1/2" SecurShield	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-285	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	486677-0-0 VSH	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip 3V, 702-1V or 702 Primer							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	486041-0-0 VSH	-
(Celcore) Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	1/2" DuraStorm VSH	12 (2.67 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	1/2" DuraStorm VSH	16 (2 sq. ft)	1-90	-	-	-
-	-	1/2" DuraStorm VSH	12 (2.67 sq. ft)	1-75	-	-	-
-	-	1/2" DuraStorm VSH	16 (2 sq. ft)	1-90	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems
DuraStorm VSH Ratings - Recover

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA), Cav-Grip 3V (CG3V) or Low VOC 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 22, 23 & 24)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 22, 23 & 24)	Rating	VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
					RoofNAV Number		
Steel Deck (Min. 22 Gauge)							
-	-	1/2" DuraStorm VSH	18 (1.8 sq. ft)	1-120	-	-	-
-	-	1/2" DuraStorm VSH	18 (1.8 sq. ft)	1-120	-	-	-
-	-	1/2" DuraStorm VSH	24 (1.33 sq. ft)	1-225	-	-	-
-	-	1/2" DuraStorm VSH	24 (1.33 sq. ft)	1-225	-	-	-
-	-	1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	-	-	-
-	-	1/2" DuraStorm VSH	6" ribbons of DASH	1-90	-	-	-
-	-	1/2" DuraStorm VSH	4" ribbons of DASH	1-150	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-150	-	489958-0-0 VSH	-
-	-	1/2" DuraStorm VSH	6" ribbons of DASH	1-150	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems

Lightweight Insulating Concrete - New Construction

Membrane Type: .045" or .060" VersiWeld Standard Reinforced Membrane
.045" or .060" VersiWeld HS Reinforced Membrane
.080" VersiWeld PLUS Reinforced Membrane
.060" or .080" Spectro-Weld Reinforced Membrane

Membrane Adhesive: VersiWeld Bonding Adhesive (VWBA) or Low VOC Bonding Adhesive (LVOC)

Deck Type	Lightweight Insulating Concrete	Rating	Maximum Slope		
			VersiWeld or Spectro-Weld	VersiWeld PLUS	VersiWeld HS
			RoofNAV Number		
Steel	Celcore	1-135	243956-0-194470 1-1/2" Slope	244212-0-194470 3/4" Slope	-
Concrete	Elastizell	1-180	191311-0-50936 1-1/2" Slope VWBA Only	-	-
			173455-0-50936 3/4" Slope VWBA Only	-	-

National, State & City Building Code Approvals

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

Dade County (South Florida) Approvals Expires August, 2029

Deck Type	Acceptance #
Lightweight Concrete	24-0502.12
Wood	24-0502.09
Steel	24-0502.13
Structural Concrete	24-0502.11
Cementitious Wood Fiber	24-0502.10
Gypsum	24-0502.08
Recover	24-0502.14

(Using VersiWeld™ Standard or PLUS Reinforced Membrane)

1. VersiWeld™ White and Tan TPO Membranes exceed the requirements for the U.S.E.P.A. ENERGY STAR® Program for reflective roofing materials.
2. VersiWeld™ TPO Membranes conform to requirements of the U.S.E.P.A. Toxic Leachate Test (40 CFR part 136) performed by an independent analytical laboratory.

FM 4474

800-992-7663

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VersiWeld® TPO

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 roof deck construction (new, tear-off or retrofit), approved insulations and maximum roof slopes, [click here](#).
11. Refer to Versico specifications for minimum requirements regarding sheet widths and fastener spacing.
12. On steel decks, Versico HPVX Fasteners and HPVX Plate Plates or HPV-XL Fasteners and HPV-XL Plate Plates are required as identified in this chart. On structural concrete decks, CD-10, HP Concrete Spikes or MP 14-10 Fasteners are used with HPVX Plate Plates.
13. Testing conducted on FM approved 22-gauge Grade E Steel decking (ASTM Designation A611 or A653 Grade 80). Refer to FM requirements for deck installation. ([click here for FM requirements](#))
14. Ratings achieved using steel decking attached to structural purlins spaced 5' o.c.
15. Please reference for ANSI-SPRI WD-1/ASCE 7-10 for non-FM insured projects, [click here](#).
16. For roof deck construction (new, tear-off or retrofit), approved insulations and maximum roof slopes, [click here](#).
17. On steel decks, Versico HPVX Fasteners and HPVX Plate Plates or HPV-XL Fasteners and HPV-XL Plate Plates are required as identified in this chart. On structural concrete decks, CD-10, HP Concrete Spikes or MP 14-10 Fasteners are used with HPVX Plate Plates.
18. The fastener spacing for membrane securement is dependent on the deck type, desired wind uplift rating and the Versico Fastening Plate and Fastener utilized as identified, [click here for more information](#).
19. Insulation shall be fastened in accordance with Versico Specifications.
20. On steel decks, a thermal barrier of FM approved gypsum board is required under expanded or extruded polystyrene. For specific thermal barrier requirements, refer to FM's RoofNAV web-site.
21. Existing roof must be FM Class 1 rated.
22. HPV fastener/Insulation plate.
23. InsuLTITE fastener/Insulation plate.
24. InsuLTITE fastener/SecurFAST Insulation Fastening plate.
25. DELETED
26. DELETED
27. DELETED
28. DELETED
29. DELETED
30. DELETED
31. DELETED
32. DELETED
33. DELETED
34. 80 ksi with one fastener per attachment point.
35. 80 ksi with two fasteners per attachment point.