

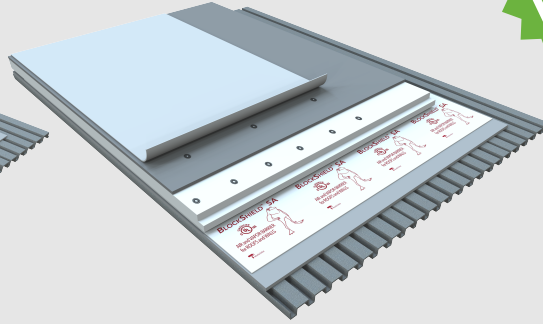
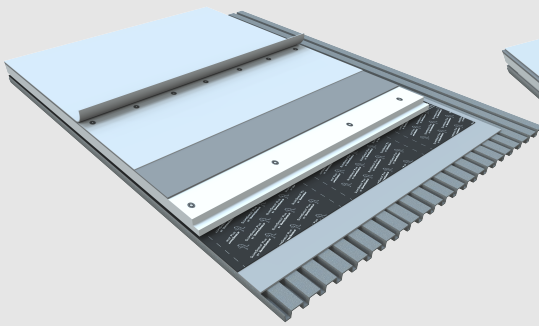
**SLOPESHIELD® PLUS SELF-ADHERED**

Air Barrier and Permeable Vapor Retarder

**BLOCKSHIELD™ SA PLUS**

Self-Adhered Air and Vapor Barrier

# FM ROOFNAV® REFERENCE GUIDE



FM Approved,  
Class A, Type 1  
Fire Rated Assemblies  
(page 5)



Municipal Library



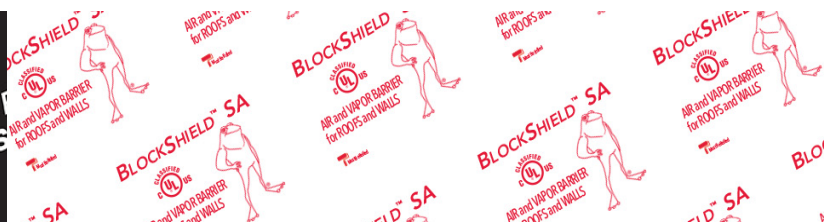
Evergreen High School, WA



Newark Liberty International Airport, NJ



We invite you to continue the conversation about SlopeShield Plus SA and BlockShield SA Plus RoofNav assemblies with the VaproShield team. Contact us at 866-731-7663 or visit us at [VaproShield.com](http://VaproShield.com) for your free sample.



## What Is Tested?



Simulated wind uplift forces, testing the pull-off strength and impact resistance for relevant fastening components.



Cone calorimeter testing assesses the behavior in fire of the roof structure in relation to ignitability, combustibility, and the production of smoke and toxic gases.



Physically testing the flammability and flame propagation of the materials to verify the fire resistance.



Simulated hail storms are used to verify the hailstone impact resistance.



Artificial weathering and liquidwater resistance testing to verify the watertightness of SlopeShield Plus SA.



Physical and simulated walking and load testing to verify the foot and machine durability.



Testing the fixings and fasteners to verify the pull-out strength and tear resistance.



Testing the fixings and fasteners to verify the corrosion resistance and durability.

# Adhered Roof Assemblies

Roof Nav No.	Cover	Cover Securement	Coverboard	Coverboard Securement	Insulation	Vapor Retarder	Thermal Barrier	Deck	External Fire	Wind Uplift
<b>399523-0-0</b>	Johns Manville JM TPO, Lescuso LEXSUCO FBHT	JM Urethane Adhesive, Millennium PG-1, RoofNav approved spatter applied foam adhesive	Dexcell FA Dexcell FA VHS	1 per 1 sq.ft (32 fasteners per board)	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DEXcell Cement DEXcell FA DEXcell Glass	80 ksi	A	I-285
<b>503087-0-0</b>	Seaman Corp. Fibertite (KEE)	Alpha-Tite Adhesive	DEXcell FA DEXcell FA VSH	1 fastener per 1.8 sq.ft. (18 fasteners per board)	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DensDeck Prime, DensDeck StormX, DEXcell Cement, DEXcell FA, DEXcell FA Glass Mat	33 ksi	A	I-90
<b>399523-0-0</b>	Johns Manville JM TPO, Lescuso LEXSUCO FBHT	RoofNav approved spatter applied foam adhesive	Dexcell FA Dexcell FA VHS	1 per 1 sq.ft. (32 fasteners per board)	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DEXcell Cement DEXcell FA DEXcell Glass	80 ksi	A	I-285

Roof Nav No.	Cover	Cover Securement	Coverboard	Coverboard Securement	Insulation #1/ Securement	Insulation #2/ Securement	Vapor Retarder	Thermal Barrier	Deck	External Fire	Wind Uplift
<b>508230-0-0</b>	Johns Manville JM PVC FB	JM Two Part Urethane Insulation Adhesive Canister, JM Two-Part UIA Canister - spatter applied	Dexcell FA Dexcell FA VHS	JM Roofing System Urethane Adhesive Adhesive Ribbons, Row Spacing 6" , Ribbon Width 0.75"	Approved per RoofNav Assembly Adhesive Ribbons: Row Spacing 6" , Ribbon Width 0.75"	Approved per RoofNav Assembly Pre-Assembled Fastening	BlockShield SA Plus, SlopeShield Plus SA	ProtectoR HD, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	33 ksi	A	I-90
<b>408782-0-0</b>	Johns Manville JM PVC FB	RoofNav approved spatter applied foam adhesive	Dexcell FA Dexcell FA VHS	JM Roofing System Urethane Adhesive Adhesive Ribbons, Row Spacing 6" , Ribbon Width 0.75"	Approved per RoofNav Assembly Adhesive Ribbons: Row Spacing 12" , Ribbon Width 0.75"	Approved per RoofNav Assembly Pre-Assembled Fastening	BlockShield SA Plus, SlopeShield Plus SA	DEXcell Cement DEXcell FA	33 ksi	A	I-90
<b>564676-0-0</b>	Johns Manville JM PVC FB	RoofNav approved spatter applied foam adhesive	Dexcell FA Dexcell FA VHS	JM Roofing System Urethane Adhesive	Approved per RoofNav Assembly Adhesive Ribbons: Row Spacing 12" , Ribbon Width 0.75"	Approved per RoofNav Assembly Pre-Assembled Fastening	BlockShield SA Plus, SlopeShield Plus SA	ProtectoR HD, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	33 ksi	A	I-90

View complete list of VaproShield's FM approved assemblies at RoofNav.com. Contact VaproShield Technical, 866-731-7663, if you are not finding the assembly required for your specification.

# Mechanically Attached Roof Assemblies

Roof Nav No.	Cover	Cover Securement	Row Spacing	Fastener Spacing	Cover Board	Cover Board Securement	Insulation	Vapor Retarder	Thermal Barrier	Deck	External Fire	Wind Uplift
<b>364634-0-0</b>	Seaman Corp. Fibertite (KEE), Tremco TremPly (KEE)	Magnum Magnum Plus	51"	18" o.c.	Approved per RoofNav Assembly	prelim. attachment	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	80 ksi	A	I-90
<b>364636-0-0</b>	Seaman Corp. Fibertite (KEE), Tremco TremPly (KEE)	Magnum Magnum Plus	51"	18" o.c.	n/a	n/a	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	80 ksi	A	I-90
<b>356791-0-0</b>	Duro-Last (PVC)	Duro-Last Poly-Plate	60"	12" o.c.	Approved per RoofNav Assembly	prelim. attachment	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	33 ksi	A	I-75
<b>364641-0-0</b>	Seaman Corp. Fibertite (KEE)	Magnum Magnum Plus	51"	12" o.c.	Approved per RoofNav Assembly	prelim. attachment	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	36 ksi	A	I-120
<b>229461-0-0</b>	Sika Sarnafil S327 (PVC)	RhinoBond TreadSafe	36"	24" o.c.	Approved per RoofNav Assembly	RhinoBond TreadSafe	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA <i>In combination with specified substrate, approved per RoofNav Assembly</i>	Approved per RoofNav Assembly	33 ksi	A	I-90
<b>364663-0-0</b>	Seaman Corp. Fibertite (KEE), Tremco TremPly (KEE)	Magnum Magnum Plus	96"	6" o.c.	Approved per RoofNav Assembly	prelim. attachment	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	80 ksi	A	I-105
<b>364752-0-0</b>	Seaman Corp. Fibertite (KEE)	Magnum	105.5"	12" o.c.	AQUAPANEL, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	prelim. attachment	Approved per RoofNav Assembly	BlockShield SA Plus SlopeShield Plus SA	DensDeck, DEXcell Cement, DEXcell FA, DEXcell Glass, SECUROCK	80 ksi	A	I-75

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# Induction Weld Roof Assemblies

Roof Nav No.	Cover	Cover Securement	Row Spacing	Fastener Spacing	Cover Board	Insulation	Vapor Retarder	Thermal Barrier	Deck	External Fire	Wind Uplift
<b>229461-0-0</b>	Sika Sarnafil S327 (PVC)	Sarnadisc RhinoBond Sarnafastener#15 XP <i>Approved per RoofNav Assembly</i>	36" x 24" o.c.	2' x 3'	<i>Approved per RoofNav Assembly</i>	<i>Approved per RoofNav Assembly</i>	BlockShield SA Plus SlopeShield Plus SA	<i>Approved Gypsum or Mineral Wool per RoofNav Assembly</i>	Steel 33 ksi	A	I-90
<b>361966-0-0</b>	Seaman Corp. Fibertite (KEE), Tremco TremPly (KEE)	OMG Seaman Corp. Johns Manville Corp. GAF <i>Approved per RoofNav Assembly</i>	36" x 24" o.c.	2' x 3'	<i>Approved per RoofNav Assembly</i>	<i>Approved per RoofNav Assembly</i>	BlockShield SA Plus SlopeShield Plus SA	<i>Approved Gypsum per RoofNav Assembly</i>	Steel 33 ksi	A	I-90
<b>365191-0-0</b>	Seaman Corp. Fibertite (KEE), Tremco TremPly (KEE)	OMG Seaman Corp. Johns Manville Corp. GAF <i>Approved per RoofNav Assembly</i>	36" x 24" o.c.	2' x 3'	n/a	<i>Approved per RoofNav Assembly</i>	BlockShield SA Plus SlopeShield Plus SA	<i>Approved Gypsum per RoofNav Assembly</i>	Steel 33 ksi	A	I-90
<b>229461-0-0</b>	Sika Sarnafil S327 (PVC)	Sarnadisc RhinoBond Sarnafastener #14, 15 XP	36" x 24" o.c.	2' x 3'	<i>Approved per RoofNav Assembly</i>	<i>Approved per RoofNav Assembly</i>	BlockShield SA Plus SlopeShield Plus SA	<i>Approved Gypsum per RoofNav Assembly</i>	Steel 33 ksi	A	I-90
<b>231167-0-0</b>	Duro-Last (PVC)	Duro-Last Poly-Plate Duro-Last #14 HD Fasteners <i>Approved per RoofNav Assembly</i>	27" x 18" o.c.	1.5' x 2.25'	DensDeck, DensDeck Prime, DensDeck StormX, AQUAPANEL, DEXcell Cement, FA Glass, VSH Glass, Glass, SECUROCK	<i>Approved per RoofNav Assembly</i>	BlockShield SA Plus SlopeShield Plus SA	<i>Approved Gypsum per RoofNav Assembly</i>	Steel 33 ksi	A	I-90

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# BlockShield SA Plus adhered direct to the deck without thermal barrier.

These are Class A and Type 1 fire rated assemblies.

Roof Nav No.	Cover	Securement (Sheet Lap)	Securement from Single Ply Cover to Cover Board	Coverboard	Securement	Insulation	Vapor Retarder	Deck	External Fire	Wind Uplift
<b>580628-0-0</b>	Johns Manville TPO FB 115, 135; Lexsoco 2010 Corporation FBHT-115, 135	Weld, hot air	JM All Season Sprayable Bonding Adhesive, JM TPO Water Based Membrane Adhesive, Kingspan LVOC Sprayable Bonding Adhesive	SECUROCK	Approved per RoofNav Assembly	Atlas ACFoam-II	BlockShield SA Plus	Steel, 22 to 16 ga., (<=90 psf)	A	I-75
<b>580629-0-0</b>	Flex Membrane KEE XT, Tripolymer MF/R KEE; GAF Everguard PVC XK; Garland WPG Solar Bright KEE; Holcim Elevate PVC KEE, GenFlex PVC KEE; Soprema PLUS PVC; US Ply USP EV-Plus	Weld, hot air	Flex Substrate 2375	Dens Deck	Approved per RoofNav Assembly	Atlas ACFoam II, III; Holcim Elevate ISO 95+CAN, GenFlex ISO 3	BlockShield SA Plus	Approved per RoofNav Assembly	A	I-90
<b>581666-0-0</b>	Seaman FiberTite	Weld, hot air	Seaman: FTR-190e Bonding Adhesive	DEXcell, DEXcell FA Glass Mat, DEXcell FA VSH Glass Mat	16 fasteners per board 1 fastener per 2.0 ft <sup>2</sup> (1 fastener per 0.19 m <sup>2</sup> ) Approved per RoofNav Assembly	Atlas ACFoam II, III	BlockShield SA Plus	Steel, 22 to 16 ga., (<=90 psf)	A	I-60
<b>581667-0-0</b>	Seaman FiberTite	Weld, hot air	Seaman: FTR-190e Bonding Adhesive	DEXcell, DEXcell FA Glass Mat, DEXcell FA VSH Glass Mat	14 fasteners per board 1 fastener per 2.3 ft <sup>2</sup> (1 fastener per 0.21 m <sup>2</sup> ) Approved per RoofNav Assembly	Atlas ACFoam II, III	BlockShield SA Plus	Steel, 22 to 16 ga., (<=90 psf)	A	I-90
<b>581669-0-0</b>	Seaman FiberTite	Weld, hot air	Seaman: Alpha-Tite Adhesive	DEXcell FA Glass Mat, DEXcell FA VSH Glass Mat	16 fasteners per board 1 fastener per 2.0 ft <sup>2</sup> (1 fastener per 0.19 m <sup>2</sup> ) Approved per RoofNav Assembly	Atlas ACFoam II, III	BlockShield SA Plus	Steel, 22 to 16 ga., (<=90 psf)	A	I-60
<b>581670-0-0</b>	Seaman FiberTite	Weld, hot air	Seaman: Alpha-Tite Adhesive	DEXcell FA Glass Mat, DEXcell FA VSH Glass Mat	14 fasteners per board 1 fastener per 2.3 ft <sup>2</sup> (1 fastener per 0.21 m <sup>2</sup> ) Approved per RoofNav Assembly	Atlas ACFoam II, III	BlockShield SA Plus	Steel, 22 to 16 ga., (<=90 psf)	A	I-90

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