



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Mid-States Asphalt & Cant Strip, Inc.
1637 51st Avenue
Tuscaloosa, AL 35401

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: MSA - BUR Systems over Recover Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 16-1012.12 and consists of pages 1 through 8.
The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Built Up Roofing
<u>Material:</u>	Fiberglass
<u>Deck Type:</u>	Recover
<u>Maximum Design Pressure:</u>	See specific deck assemblies.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Arrowglass Base	36" x 108'	ASTM D 4601 Type II	A non-porous 28 pound base sheet consisting of a heavyweight, fiberglass mat saturated with type IV asphalt with a sand surfacing. For use as a mechanically fastened or adhered base sheet in a wide variety of built-up roofing applications.
MSA MG2 Base Sheet	36" x 108'	ASTM D 4601 Type II	A non-porous 28 pound base sheet consisting of a heavyweight, fiberglass mat saturated with polymer modified asphalt with a sand surfacing. For use as a mechanically fastened or adhered base sheet in a wide variety of built-up roofing applications.
MSA Ply 4	36" x 180'	ASTM D 2178 Type IV	A heavyweight fiberglass mat saturated with type IV asphalt, giving excellent strength and weathering characteristics. For use as a ply sheet in hot mopped built-up roofing applications
MSA Ply 6	36" x 180'	ASTM D 2178 Type VI	A heavyweight fiberglass mat saturated with type IV asphalt, giving excellent strength and weathering characteristics. For use as a ply sheet in hot mopped built-up roofing applications
MSA MSR	36" x 36'	ASTM D 3909	A high strength non-woven fiberglass carrier for added dimensional stability coated on both sides with premium grade asphalt. Mineral granule surfacing for superior weathering characteristics.

APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer</u> (With current NOA)
ACFoam II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam Composite	Composite Insulation board	Atlas Roofing Corporation



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APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer</u> (With current NOA)
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
ISOGARD HD Composite	Composite Insulation board	Firestone Building Products Company, LLC
EnergyGuard Perlite Recover Board, EnergyGuard Perlite	Rigid perlite roof insulation board	GAF
ENRGY-3	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 Plus, Fesco Foam	Polyisocyanurate / wood fiber insulation	Johns Manville Corp.
Fesco Board, Retro-Fit Board	Rigid perlite roof insulation board	Johns Manville Corp.
DensDeck®	Water resistant gypsum board	Georgia Pacific Gypsum LLC
Thermarroof Composite-3	Composite Insulation board	Rmax, A Business Unit of Sika Corporation
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer</u> (With Current NOA)
1.	Dekfast DF-#12-PH3	Insulation fastener	Various	SFS Group USA, Inc.
2.	Dekfast DF-#14-PH3	Insulation fastener	Various	SFS Group USA, Inc.
3.	Dekfast DF-#15-PH3	Insulation fastener	Various	SFS Group USA, Inc.
4.	Dekfast DF-#12-HW 1/4	Insulation fastener	Various	SFS Group USA, Inc.
5.	Dekfast PLT-H-2-7/8	Galvalume stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc.
6.	Dekfast PLT-R-3	Galvalume stress plate.	3"	SFS Group USA, Inc.
7.	Dekfast DF-#12-PH3-G3	Pre-assembled fastener and plate	Various	SFS Group USA, Inc.
8.	Dekfast DF-#14-PH3-P3	Pre-assembled fastener and plate	Various	SFS Group USA, Inc.
9.	Firestone All-Purpose Fastener	Insulation and membrane fastener	Various	Firestone Building Products



APPROVED FASTENERS:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
10.	#12 Standard Stainless Steel	Insulation and membrane fastener	Various	OMG
11.	#12 Standard Hex Head	Insulation and membrane fastener	Various	OMG
12.	#12 Standard Roofgrip	Insulation and membrane fastener	Various	OMG
13.	OMG Heavy Duty	Insulation and membrane fastener	Various	OMG
14.	CD-10	Insulation and membrane fastener	Various	OMG
15.	Strap Toggle	Insulation and membrane fastener	Various	OMG
16.	3" Round Metal Plate and AccuTrac Plate	Galvalume AZ55 stress plate	3" round 3" square	OMG
17.	OMG Plastic Plate	Polypropylene stress plate	3" round	OMG
18.	Trufast SIP LD Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co.
19.	Trufast #12 DP Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co.
20.	Trufast #12 DP-H Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co.
21.	Trufast #14 HD Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co.
22.	Trufast DP Pre-Assembled Insulation	Pre-assembled fastener and plate	Various	Altenloh, Brinck & Co.
23.	Trufast 3" Metal Insulation Plate	Stress Plate	3"	Altenloh, Brinck & Co.
24.	Trufast 3" Recessed Metal Insulation Plate	Stress Plate	3"	Altenloh, Brinck & Co.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
FM Approvals	3004059	FM 4470	09/23/10
PRI Construction Material Technologies, LLC	MSA-018-02-01	TAS 114 D	11/30/15
	FBP-063-02-01	TAS 114 E	07/10/12
	BWR-539-02-01	ASTM D 3909	07/24/13
	MSA-039-02-01	ASTM D 2178 Type IV	09/27/17
	MSA-039-02-02	ASTM D 2178 Type VI	09/27/17
	MSA-039-02-03	ASTM D 4601 Type II	09/27/17



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APPROVED ASSEMBLIES

Membrane Type:	BUR
Deck Type 7I:	Recover, Insulated
Deck Description:	2500 psi structural concrete or plank
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ENRGY 3 Plus, AC Foam Composite, Thermaroom Composite-3, ISOGARD HD Composite, Fesco Foam Minimum 1.5" thick	1, 2, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	1:2 ft²
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved hot asphalt, within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Base Sheet:	Install One ply of Arrowglass Base or MSA MG2 Base Sheet directly to the insulated substrate with a 4" lap. Adhere in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet:	Two or more plies of MSA Ply 4 or MSA Ply 6 ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.
Cap Sheet:	(Optional) One ply of MSA MSR Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.
Surfacing:	Install the following: (When Cap Sheet is not used) 1. Flood coat of hot asphalt at an application rate of 60 lbs./sq.; plus gravel fully embedded at an application rate of 400 lbs./sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9.)



Membrane Type:	BUR
Deck Type 7I:	Recover, Insulated
Deck Description:	2500 psi structural concrete or plank
System Type B(2):	Base/Intermidate layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	N/A	N/A

Note: Optional Base layer of insulation shall be loose laid with preliminary fastening.

Intermidate Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam II, Multi-Max FA-3, ISO 95+ GL Minimum 1.5" thick	1, 2, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	1:2 ft ²

Note: Base/Intermidate layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard Perlite, Fesco Board Minimum ½" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved hot asphalt, within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Base Sheet:	Install One ply of Arrowglass Base or MSA MG2 Base Sheet directly to the insulated substrate with a 4" lap. Adhere in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet:	Two or more plies of MSA Ply 4 or MSA Ply 6 ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.
Cap Sheet:	(Optional) One ply of MSA MSR Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.
Surfacing:	Install the following: (When Cap Sheet is not used) 1. Flood coat of hot asphalt at an application rate of 60 lbs./sq.; plus gravel fully embedded at an application rate of 400 lbs./sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9.)



Membrane Type: BUR
Deck Type 7I: Recover, Insulated
Deck Description: 2500 psi structural concrete or plank
System Type B(3): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ACFoam II, Multi-Max FA-3, ISO 95+ GL Minimum 1.5" thick	1, 2, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved hot asphalt, within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Base Sheet: Install One ply of Arrowglass Base or MSA MG2 Base Sheet directly to the insulated substrate with a 4" lap. Adhere in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: Two or more plies of MSA Ply 4 or MSA Ply 6 ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.

Cap Sheet: (Optional) One ply of MSA MSR Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.

Surfacing: Install the following: (When Cap Sheet is not used)

1. Flood coat of hot asphalt at an application rate of 60 lbs./sq.; plus gravel fully embedded at an application rate of 400 lbs./sq.

Maximum Design Pressure: -45 psf. (See General Limitation #9.)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.
2. All assemblies listed herein shall be installed in compliance with the applicable sections of FBC 1521. Uplift performance of assemblies bonded to existing roofing system shall be verified per 1521.10. Uplift performance of assemblies mechanically attached through existing roofing system shall be verified per 1521.11.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE