



MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Commercial Innovations, Inc.
 9105 Way Ave.
 Cleveland, OH 44105-2197

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: Commercial Innovations Modified Bitumen Roof System Over Steel Deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 NOA No. 11-0725.04 and consists of pages 1 through 7.
 The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 12-1003.12
 Expiration Date: 12/02/13
 Approval Date: 12/13/12
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS/SIS/SEBS
Deck Type: Steel
Maximum Design Pressure: -120 psf

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>
Viking AB II	36" x 108'	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
Viking Poly Shield	40" x 324'	ASTM D 5726	Polyester felt for use in conventional and modified bitumen built-up roof systems.
Viking TG IV	36" x 180'	ASTM D 4990, Type I	Coal Tar impregnated glass felt for use in conventional and modified bitumen built-up systems.
Viking TG VI	36" x 180'	ASTM D 4990, Type I	Coal Tar impregnated glass felt for use in conventional and modified bitumen built-up systems.
Viking AOB	36" x 72'	ASTM D 2626	Asphalt coated organic base sheet.
Viking Walk Pads	24" x 36"	Proprietary	Rubber walking pad.
Viking AB Mastic	5 gallon	ASTM D 4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.
Viking TB Mastic	5 gallon	ASTM D 5643	Trowel grade tar based roofing mastic for use in repair and patching.
Viking Sun Shield Fibered	5, 55 gallon	ASTM D 2824, Type III	High solids, aluminized roof coating.
Viking CTP	70 lb. keg	Proprietary	Polymer modified coal tar pitch.



APPROVED INSULATIONS:

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY-3, PSI-25	Polyisocyanurate foam insulation	Johns Manville
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	US Gypsum

APPROVED FASTENERS:

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	OMG #15 XHD Fastener	Insulation fastener for steel and wood decks	Various	OMG, Inc.
2.	3 in. Round Metal Plate	3" round galvalume AZ50 steel plate	3" round	OMG, Inc.
3.	Trufast #15 EHD Fastener	Insulation fastener for steel and wood decks	Various	The Tru-Fast Corp.
4.	Trufast 3" Metal Insulation Plates	Galvalume AZ50 Stress Plates	3" round	The Tru-Fast Corp.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>	
Dynatech Engineering Corporation Factory Mutual Research Corporation	#4530.05.95-1	TAS 114	05/31/95	
	1B4A7.AM	FM 4470	12/15/97	
	4B4A9.AM	FM 4470	12/31/97	
	0Y5A6.AM	FM 4470	09/08/97	
	3D3A5.AM	FM 4470	09/15/98	
	3004392	FM 4470	09/21/99	
	3000637	FM 4470	04/26/00	
	0D9A0.AM	FM 4470	05/02/00	
	3004907	FM 4470	05/16/00	
	3009117	FM 4470	12/21/00	
	3010113	FM 4470	11/18/02	
	3019046	FM 4470	03/04/05	
	3021718	FM 4470	04/11/05	
	3031839	FM 4470	12/07/07	
	3032471	FM 4470	04/18/08	
	3032165	FM 4470	04/22/08	
	3032021	FM 4470	08/25/08	
	3033444	FM4470	08/28/08	
	3032163	FM 4470	07/21/08	
	3032647	FM 4470	07/28/08	
	PRI Asphalt Technologies, Inc.	GRD-03-02-01	ASTM D5147	01/07/98
		GRD-05-02-01	ASTM D5147	12/18/97
GRD-06-02-01		ASTM D5147	01/09/98	
PRI Construction Materials Technologies	GRD-054-02-01	ASTM D2626	11/17/11	
	GRD-051-02-01	ASTM D2178	10/28/11	
	GRD-052-02-01	ASTM D2178	10/28/11	
Trinity ERD	4533.05.98-1-R1	TAS 114-J	09/09/11	
	4544.11.06	TAS 114-J	11/02/06	
	C8500SC.11.07-R1	TAS 117 / ASTM D6862	08/07/09	
	G32950.06.10	ASTM D4601	06/11/10	
	G32700.09.11-1	ASTM D4601	09/16/11	
	G39620.07.12	ASTM D4990	07/02/12	
	G37200.10.12-1-R1	ASTM D6163/D4798	12/05/12	
	G37200.10.12-2-R1	ASTM D6162/D4798	12/05/12	
	G37200.10.12-3-R1	ASTM D6162/D4798	12/05/12	
	G37200.10.12-4-R1	ASTM D6162	12/05/12	
	G37200.10.12-5-R1	ASTM D6162	12/05/12	
	G37200.10.12-6-R1	ASTM D6162/D4798	12/05/12	
	G37200.10.12-7-R1	ASTM D6162	12/05/12	
	G37200.10.12-9-R1	ASTM D6162/D4798	12/05/12	
	G37200.10.12-10-R1	ASTM D6163/D4798	12/05/12	
	G37200.10.12-11-R1	ASTM D6163/D4798	12/05/12	
	G37200.10.12-12-R1	ASTM D6163/D4798	12/05/12	
	G37200.10.12-13-R1	ASTM D6162	12/05/12	
	Momentum Technologies, Inc.	G39630.07.12	Physical Properties	07/12/12
EX22B7A		ASTM D 6162	04/11/07	
TX21G5A		ASTM D5147	04/25/06	
DX14C7A		ASTM D 6163	03/16/07	
EX11L5A		ASTM D 5147	03/19/07	
Atlantic & Caribbean Roof Consulting, LLC	RX18C8A-R	ASTM D 6162/D6163	03/28/08	
	ACRC 08-042	TAS 114-J	06/12/08	
	ACRC 08-036	TAS 114-J	06/03/08	



APPROVED ASSEMBLIES:

- Membrane Type:** SBS/SIS/SEBS
- Deck Type 2I:** Steel, Insulated
- Deck Description:** 22 ga. steel Type B Grade 33 steel deck attached with Traxx/5 fasteners 6" o.c. (every flute) to steel supports spaced 6' o.c.
- System Type C(1):** Both layer of insulation mechanically fastened. Roof system fully adhered to insulation.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ENRGY 3, ENRGY 3 PSI-25		
Minimum 1.5" thick	N/A	N/A
Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.		
Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.5" thick	3 with 4	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. 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 Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- System 1: Base/Ply Sheet:** Three to five plies Viking TG IV, Viking TG VI or Viking Poly-Shield, adhered in full mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 30 lbs/sq.
- System 2: Base/Ply Sheet:** One ply Viking AOB, or Viking AB II adhered in full mopping of approved asphalt at a rate of 25 lbs/sq.
- Cap Sheet:** Two to four plies Viking TG IV, Viking TG VI or Viking Poly-Shield, adhered in full mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 30 lbs/sq.
- Surfacing:**
 1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 70 lbs/sq.

Maximum Design Pressure: -112.5 psf (See General Limitation # 7)



Membrane Type: SBS/SIS/SEBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. steel 1.5" Type B Grade 90 steel deck attached to steel channel-framing joists. Steel supports spaced 6' o.c. Deck fastened 5/8" puddle welds, 6" o.c.

System Type C(2): All layers of insulation are simultaneously fastened. Roof system fully adhered to primed insulation.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
ENRGY 3		
Minimum 1.5" thick	N/A	N/A
Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.		
Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft²
SECUROCK Gypsum-Fiber Roof Board		
Minimum 0.5" thick	1 with 2	1:1 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. 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 Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Prime SECUROCK Gypsum-Fiber Roof Board insulation board with ASTM D-41 asphalt primer at 1 gallon per square

Base/Ply Sheet: Three or more plies of Viking TG IV, Viking TG VI or Viking Poly-Shield, adhered in full mopping of Viking CTP at a rate of 30 lbs/sq.

Surfacing:

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 70 lbs/sq.

Maximum Design Pressure: -120 psf (See General Limitation # 7)



STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 6 ft. o.c.

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 Professional Engineer, Registered 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 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 12-1003.12
Expiration Date: 12/02/13
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