



**BUILDING CODE COMPLIANCE OFFICE**  
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**PRODUCT CONTROL DIVISION**  
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**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**MPV Enterprises, LLC**  
**P.O. Box 8441**  
**Coral Springs ,FL 33075-8441**

Your application for Notice of Acceptance (NOA) of:

**Modified Bitumen Roofing Systems for Cementitious Wood Fiber Decks**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 00-0905.08**  
**EXPIRES: 10/05/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 10/05/2000**

**ROOFING SYSTEM APPROVAL**

<u>Category:</u>	Roofing	<b>Approval Date:</b> <u>October 5, 2000</u>
<u>Sub-Category:</u>	Modified	<b>Expiration Date:</b> <u>October 5, 2003</u>
<u>Material:</u>	SBS	
<u>Deck Type:</u>	Cementitious Wood Fiber	
<u>Maximum Design Pressure</u>	-45 psf	
<u>Fire Classification:</u>	See General Limitation #1	

**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
MPV-7001	3 squares; roll weight: 85 lbs.	ASTM D 5147	Lightweight SBS modified base sheet for use as a base or interply in modified bitumen roof systems.
MPV-7002	2 squares; roll weight: 90 lbs.	ASTM D 5147	Heavyweight SBS modified base sheet for use as a base or interply in modified bitumen roof systems.
MPV-7003	1.5 squares; roll weight: 106 lbs.	ASTM D 5147	SBS modified interply sheet for use in the metalflex and hot asphalt/cold adhesive modified bitumen built-up roof systems.
MPV-7006	1 square; roll weight: 120 lbs.	ASTM D 5147	Dual reinforced, SBS modified granulated torch applied membrane.
MPV-7007	1 square; roll weight: 110 lbs.	ASTM D 5147	Dual reinforced, SBS modified smooth torch applied membrane. Use permitted only with additional surfacing.
MPV-7004	1 square; roll weight: 100 lbs.	ASTM D 5147	Polyester reinforced SBS modified granulated membrane. Applied in hot asphalt.
MPV-7005	1 square; roll weight: 90 lbs.	ASTM D 5147	Polyester reinforced SBS smooth surface membrane. May be used as an interply, or as a membrane with additional surfacing. Applied in hot asphalt or cold adhesive.
MPV-7011	1 square; roll weight: 90 lbs.	ASTM D 5147	Lighweight glass reinforced cap membrane. Applied in hot asphalt or cold adhesive.

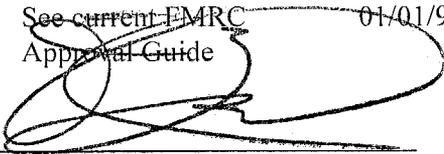


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Roofing Product Control Examiner

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
MPV-7008	1 square; roll weight: 110 lbs.	ASTM D 5147	Polyester and glass reinforced SBS membrane for use in modified bitumen roof systems. Applied in hot asphalt or cold adhesive.
MPV-7009	1 square; roll weight: 110 lbs.	ASTM D 5147	Fiberglass reinforced SBS membrane with granule surface for use in modified bitumen roof systems. Applied in hot asphalt or cold adhesive.
MPV-7007	1 square; roll weight: 120 lbs.	ASTM D 5147	Polyester and glass reinforced SBS membrane for use in modified bitumen roof systems. Torch applied.
MPV-7012	1 square; roll weight: 101 lbs.	ASTM D 5147	Aluminum or copper embossed SBS modified cap membrane for use on modified bitumen roof systems. May be applied in hot asphalt or by torch.
MPV-7003-P	1½ square; roll weight: 106 lbs.	ASTM D 5147	Polyester reinforced SBS modified interply sheet used in hot or cold modified bitumen built-up roof systems.
MPV-7010	1 square; roll weight: 120 lbs.	ASTM D 5147	Dual reinforced, fire rated SBS modified granulated torch membrane. Torch applied.

**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Wind Uplift Classification and Fire Rating	J.I. 2X4A8.AM	09/07/94
	Wind Uplift Classification and Fire Rating	J.I. 0Q8A4.AM	10/01/90
	Wind Uplift Classification and Fire Rating	J.I. 0Q4A6.AM	09/19/90
Warnock Hersey International, Inc.	Fire Classification	See current Warnock Hersey Directory	01/01/94
Underwriters Laboratories, Inc..	Fire Classification	See current Underwriters Laboratories Guide	01/01/94
Factory Mutual Research Corporation	Current insulation fastening requirements	See current FMRC Approval Guide	01/01/94



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**SYSTEMS**

**Membrane Type:** SBS

**Deck Type 5I:** Cementitious Wood Fiber, Insulated, New Construction

**Deck Description:** Cementitious wood fiber

**System Type C:** All layers of insulation simultaneously fastened; base sheet adhered.

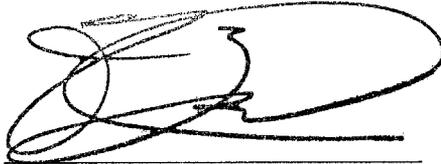
**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
Approved Type(s): <b>E'NRG'Y 2</b> Minimum: 1.3" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): <b>Multi-Max</b> Minimum: 1.4" x 4' x 8'	N/A	N/A	N/A	N/A
Approved Type(s): <b>Perlite</b> Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A

**Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.**

<u>Insulation Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
Approved Type(s): <b>ACFoam Composite</b> Minimum: 4' x 8' x 2"	Rawlite	[4]	16	1:2 ft. <sup>2</sup>
Approved Type(s): <b>Kop-R (WC)</b> Minimum: 4' x 8' x 2"	Rawlite	[4]	16	1:2 ft. <sup>2</sup>
Approved Type(s): <b>Fesco Foam SP</b> Minimum: 4' x 8' x 2"	Rawlite	[4]	16	1:2 ft. <sup>2</sup>
Approved Type(s): <b>USIso/Perlite</b> Minimum: 4' x 8' x 2"	Rawlite	[4]	16	1:2 ft. <sup>2</sup>
Approved Type(s): <b>Perlite</b> Minimum: ¾" x 2' x 4'	Rawlite	[1]	4	1:2 ft. <sup>2</sup>

**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 Miami-Dade County Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in Chapter 23 of the S.F.B.C. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.**



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Base Sheet: (Optional) One ply of MPV-7001, 7002, 7003 or Celotex Vaporbar GB adhered to the insulated substrate with a spot mopping of approved mopping asphalt in 16" dia. spots 18" o.c. at an application rate of 20 lb./sq.  $\pm$  15%., or a full mopping to an approved perlite at an application rate of 25 lb./sq.  $\pm$  15%..

Ply Sheet: None.

Membrane: One ply of MPV-7010 or MPV-7006 torch applied to base sheet, or one ply of MPV-7004, 7008, or 7009 adhered with approved mopping asphalt or adhesive at an application rate of 25 lbs./sq.  $\pm$  15%.

Surfacing: (Optional) one of the following as required:

1. APOC Sunbrite 400 at 2 gal.sq..

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

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



**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 or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade County Testing Application Standards TAS 105 and calculations in compliance with Miami-Dade Roofing Application Standard RAS 117.
- 7 Perimeter and corner areas shall comply with the enhanced uplift pressure of these areas, as calculated in compliance with Chapter 23 of the South Florida Building Code. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Miami-Dade County Roofing Application Standard RAS 117. **(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 Miami-Dade County Roofing Application Standard RAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 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.)**



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**NOTICE OF ACCEPTANCE STANDARD CONDITIONS**

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process;
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 7.

**END OF THIS ACCEPTANCE**



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