MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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MIAMI, FLORIDA 33130-1563
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CONTRACTOR LICENSING SECTION
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CONTRACTOR ENFORCEMENT DIVISION
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

American Hydrotech, Inc.
541 North Fairbanks
Quebec , 60611

Your application for Notice of Acceptance (NOA) of:
Hot Applied Rubberized Asphalt Waterprrofing System
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.: 00-0501.06
EXPIRES: 06/17/2003

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: 08/24/2000

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Waterproofing

Approval Date: **August 24, 2000**

Expiration Date: **June 17, 2003**

Materials: Rubberized Asphalt
Maximum Design Pressure N/A
Fire Classification: N/A

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
MM6125	Available in 50 or 500 lb Drums	CGSB-37.50-M89	Single component, rubberized asphalt compound.
Flex-Flash UN	60 mils thick 6", 12", 18", 36" x 50' & 100' rolls	PA 110	Uncured neoprene flashing, for exposed applications.
Flex-Flash F	6", 12", 39" x 360' & 600' rolls	N/A	Spun-bonded polyester fabric reinforcement.
Surface Conditioner	5 gal or 55 gal	N/A	Single component, asphalt modified solvent base polymer primer for concrete surfaces.
Hydroflex 30	90 mil	N/A	Fiberglass reinforced, rubberized asphalt protection course.
Hydrodrain 100	.25" x 4' x 75' roll	N/A	Single-sided drainage composite with filter fabric bonded to one side of drainage core. For use in vertical applications over 25 ft. or under vehicular traffic applications.
Hydrodrain 102	.25" x 4' x 75'	N/A	Double-sided drainage composite filter fabric bonded to both sides of drainage core. For use in vertical applications over 25 ft. or under vehicular traffic applications.
Hydrodrain 300	.22" x 4' x 75'	N/A	Single sided drainage composite with filter fabric bonded to one side of the drainage core. For use in vertical applications under 25 ft. or under pedestrian traffic applications.

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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
Hydrodrain 302	.22" x 4'x 75'	N/A	Double-sided drainage composite with filter fabric bonded to both sides of the drainage core. For use in vertical applications under 25 ft. or under pedestrian traffic applications.
Hydrodrain 1000	.25" x 4' x 50'	N/A	Double-sided drainage composite with filter fabric bonded to one side of the core and polyethylene laminate protection sheet bonded to the backside of the core. For use in both vertical and horizontal applications.
Hydrodrain AL	54" x 100' roll	N/A	Singe-sided blue composite with filter fabric bonded to one side of the core. For use in split-slab construction and vented paver configurations.
MM7800	5 gallon pail	N/A	Single component, cold applied rubberized asphalt-waterproofing membrane.
LM6090	5 gallon pail	N/A	Cold-applied elastomeric asphalt membrane flashing.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Specification	Product Date
Inchape Testing Services	488-0111-01	CAN/CGSB 37.50-M89	02/04/97

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

Product	Dimensions	Test Specification	Product Description	Manufacturer
Styrofoam	Various	TAS 110	Extruded Polystyrene Insulation (XPS)	Dow Chemical Company

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APPROVED APPLICATIONS:

Deck Type 1 Concrete Decks, Roof Plaza Decks, Parking Decks, New Construction

Deck Description: Min. 2500 psi, dual slab construction (roof plaza and parking decks)

System Types F: MM 6125, Reinforced or un-reinforced systems

Substrate: Structural concrete shall be water cured a minimum of 14 days, 28 day cure recommended, prior to application of the membrane. Lightweight concrete shall be water cured a minimum of 30 days, 60 days cure recommended, prior to application of membrane. Venting the deck from the underside is recommended to facilitate drying of the lightweight deck. The curing method must be a water cure, wet coverings, paper sheets, plastic sheets or approved liquid curing compound such as sodium silicate.

Substrate Preparation: All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of unapproved curing compounds, form release agents and other surface contaminants. Poured in place concrete must be monolithic, smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions. Precast concrete decks shall be mechanically secured to minimize differential movement and all joints between units shall be grouted.

The substrate must be cleaned to remove loose debris. A final check of the substrate must be made to determine that the substrate has been properly cleaned and a test patch of Monolithic Membrane 6125 shall be applied to the surface to check adhesion. Apply 6" wide strips of Flex-Flash UN or Flex-Flash F at the junction of all vertical and horizontal surfaces, changes in plane and expansion joints.

Concrete around drain shall be depressed to promote positive water drainage.

Membrane Flashing: All prepared cracks, expansion joints, base flashings, penetrations and junctures at horizontal/vertical changes in plane shall be primed and flashed with MM 6125 Hot Applied Liquid Membrane prior to the application of the field membrane.

All cracks greater than 1/16" wide shall be covered with Flex-Flash UN or Flex-Flash F reinforcement fabric in 6" minimum width strips

At field and wall expansion joints, install Flex-Flash UN reinforcing fabric 6" to both sides of the joint. The fabric shall fold into the joint 1.5 times deeper than the width of the joint. A foam backer rod or tube 1" larger than the maximum joint opening shall be installed in the joint. A second layer of Flex-Flash UN shall be installed over the first layer of reinforcing fabric and one course of MM 6125 monolithic membrane. Incorporate a fold in the second sheet of Flex-Flash UN to accommodate movement of the joint.

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Apply one sheet Flex-Flash UN extending 6 inches beyond the drain flange on all sides and secured by the clamping ring to the drain. Drain must be maintained free to weep at membrane level.

Primer: Apply the surface conditioner to the concrete using a hand held sprayer evenly at a rate of 300 to 600 SF/gallon (7.4 - 14.7 m^2/L) depending on surface texture. Surface conditioner should "tan" the surface, not blacken it. Allow sufficient time for the surface conditioner to thoroughly dry prior to the membrane application.

Base Coat: The membrane shall be heated in a double jacketed, oil bath melter with mechanical agitation, specifically designed for the preparation of a rubberized asphalt membrane. Heat the membrane until it can be drawn-free flowing at a temperature range between 350°F (176°C) and 425°F (218°C).

Apply the rubberized asphalt membrane at a rate to provide a continuous, monolithic coat of 180 mil minimum thickness for non-reinforced systems, and 90 mil minimum for reinforced systems.

Reinforcement: **For reinforced systems**, embed a layer of spunbonded polyester fabric reinforcing sheet into the hot applied MM 6125 membrane while it is still hot. Overlap fabric reinforcing sheet 2 inches with membrane between sheets. No reinforcement required for un-reinforced systems.

Top Coat: **For reinforced systems**, apply a continuous monolithic coat of MM 6125 membrane at a minimum thickness of 125 mil over the reinforcement sheets. Total membrane thickness for reinforced systems shall not be less than 215 mils thick. No top coat required for un-reinforced systems.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.

Protection Course: Once testing confirms water-tight integrity, the MM 6125 membrane shall receive a protection course of Hydroflex 30 or other approved protection. For Horizontal application, embed the separator sheet into the membrane while it is still hot to insure a good bond. Overlap adjoining sheet edges (dry) a minimum of 2-3" (50.8 mm - 76.2 mm), to insure complete coverage. The separator sheet shall be covered within 30 days of membrane installation.

For vertical application, embed the protection layer into the membrane while it is still warm and tacky to insure a good bond. Backfill against installed protection course immediately.

Surfacing: Structural Concrete Slab, minimum 2500psi., in compliance with the South Florida Building Code.

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Maximum Design Pressure:	N/A
Maximum Fire Classification:	Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
Maximum Slope:	No limitation

GENERAL LIMITATIONS:

1. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.
2. All work shall be performed by a Contractor licensed to do roofing/waterproofing work in Miami-Dade County. Contractor shall be familiar with the details and shall be approved by American Hydrotech, Inc. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall be installed solely by approved applicators and only with installation and heating equipment approved by American Hydrotech, Inc.
3. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
4. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by American Hydrotech, Inc., shall be submitted to the Building Official for review.
5. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall not be exposed to the weather and shall be protected by a protection sheet or other approved protection method from traffic.
6. American Hydrotech, Inc.,Hot Applied Liquid Membrane Systems shall not be installed without consultation with American Hydrotech, Inc., if ambient or surface temperature is below 0°F. Do not apply to wet or frozen concrete surface.
7. American Hydrotech, Inc., Hot Applied Liquid Membrane Systems shall not be installed over lightweight insulating concrete.
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.

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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: "Metro-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 Metro-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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