MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Barrett Company
33 Stonehouse Road
Millington, NJ 07946

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Ram-Tough Plaza Deck System

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 consists of pages 1 through 6.
The submitted documentation was reviewed by Frank Zuloaga, RRC

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Waterproofing
Material	Hot Rubberized Asphalt
Deck Type:	Concrete
Maximum Design Pressure	**-500 psf**
Fire Classification:	N/A

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
Ram-Tough 250	N/A	CGSB-37.50-M89	Rubberized Asphalt Membrane.
Ram 201	3 square 75 lb/roll		Fiberglass reinforced SBS modified bitumen membrane.
Ram 203	1 square 75 lb/roll		Fiberglass reinforced SBS modified bitumen membrane.
Poly Felt 125 VP	Various	N/A	A lightweight spunbonded polyester reinforced fabric.
Ram Prime/Surface Conditioner	Various	ASTM D 41	General purpose penetration asphalt primer.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

Product	Dimensions	Test Specification	Product Description	Manufacturer
Plaza Paver	24" x 24" x 2" min. wt. 150 lbs/ft^3	ASTM C 140	7500 psi min. compressive strength, 5% water absorption max.	Generic
Intergres Clay Floor Tile	12" x 12"" x ½"		Clay exterior grade tiles.	Almar USA, Inc.
StyroFoam Roofmate Insulation	Various Min. 45 psi	TAS 110	Extruded Polystyrene Insulation (XPS)	Dow Chemical USA
QB-300™ Construction adhesive	Tubes and 1, 5 gallons pails	ASTM C 557 ASTM 3498	Multi-Purpose Construction adhesive.	OSI Sealants, Inc
Concrete Mix	40, 60 & 80 lb. Bags		Uniformly blended mixture of stone, gravel, sand, Portland cement and other ingredient approved for use in concrete.	Quikrete

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
IRT Consulting of S. Floida, Inc.	TAS 114	01-024/25/26	06/22/01
Momentum Technologies, Inc.	CGSB-37.50-M89	EX25B2C	05/16/02

APPROVED APPLICATIONS:

Deck Type 3:	Concrete Decks, Roof Plaza Decks, New Construction
Deck Description:	Min. 2500 psi, slab construction (roof plaza decks)
System Type:	Ram-tough 250
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
Base Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 90 mils minimum thickness.
Reinforcement:	Embed a layer of Poly Felt 125 VP polyester fabric into the hot applied Ram-Tough 250 membrane while it is still hot.
Top Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 125 mils minimum thickness.
Protection Course:	The Ram-Tough 250 membrane shall receive a protection course of ram 203 applied while Ram-Tough 250 is still hot. Overlap adjoining sheet edges (dry) a minimum of 2-3" (50.8 mm - 76.2 mm), to insure complete coverage.
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. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Pavers (24" x 24" x 2" pre-manufactured concrete pavers; min. wt. 150 lbs/ft^3) shall be set on top of membrane in a minimum 1-¾" thick Quickrete mortar bed. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Pavers edges shall be butted together. Pavers shall be installed in accordance with applicable Building Code.
Maximum Design Pressure:	-495 psf (See General Limitation #9.)

Deck Type 3(I):	Concrete Decks, Roof Plaza Decks, New Construction
Deck Description:	Min. 2500 psi, slab construction (roof plaza decks)
System Type:	Ram-tough 250
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
Base Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 90 mils minimum thickness.
Reinforcement:	Embed a layer of Poly Felt 125 VP polyester fabric into the hot applied Ram-Tough 250 membrane while it is still hot.
Top Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 125 mils minimum thickness.
Protection Course:	The Ram-Tough 250 membrane shall receive a protection course of ram 201 applied while Ram-Tough 250 is still hot. Overlap adjoining sheet edges (dry) a minimum of 2-3" (50.8 mm - 76.2 mm), to insure complete coverage.
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.
Insulation:	After integrity test a minimum 2' x 4' x 2" Extruded Polystyrene Foam Insulation with minimum 40 psi compressive strength shall be adhered to membrane with four evenly spaced ½" wide beads of QB 300 adhesive running the length of the insulation. Insulation edges shall be butted together.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	After integrity test pavers (24" x 24" x 2" pre-manufactured concrete pavers; min. wt. 150 lbs/ft^3) shall be adhered to membrane with four evenly spaced ½" wide beads of QB 300 adhesive running the length of pavers. Paver edges shall be butted together.
Maximum Design Pressure:	-55 psf (See General Limitation #9.)

Deck Type 3:	Concrete Decks, Roof Plaza Decks, New Construction
Deck Description:	Min. 2500 psi, slab construction (roof plaza decks)
System Type:	Ram-tough 250
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ASTM D-41 asphalt primer installed at the rate of 1-2 gal/sq.
Base Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 90 mils minimum thickness.
Reinforcement:	Embed a layer of Poly Felt 125 VP polyester fabric into the hot applied Ram-Tough 250 membrane while it is still hot.
Top Coat:	Apply Ram-Tough 250 membrane shall be applied at a rate to provide a continuous, monolithic coat of 125 mils minimum thickness.
Protection Course:	The Ram-Tough 250 membrane shall receive a protection course of ram 203 applied while Ram-Tough 250 is still hot. Overlap adjoining sheet edges (dry) a minimum of 2-3" (50.8 mm - 76.2 mm), to insure complete coverage.
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. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Exterior Grade Clay Tiles (12" x 12" x ½") shall be set on top of membrane in a minimum 1-¾" thick Quickrete mortar bed. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tiles shall be installed in accordance with applicable Building Code.
Maximum Design Pressure:	-500 psf (See General Limitation #9.)

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. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.
3. Contractor shall be approved by Barrett Company.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. 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.
6. Systems shall not be installed over lightweight insulating concrete.
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 the wind load requirements of applicable 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.)**

END OF THIS ACCEPTANCE