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
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NOTICE OF ACCEPTANCE (NOA)

Durapax Coal Tar Commercial Roofing Systems
400 Old Reading Pike, Suite 304
Pottstown, PA 19464

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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Durapax Coal Tar Systems over Concrete

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 consists of pages 1 through 5.
The submitted documentation was reviewed by Jorge L. Acebo

MIAMI-DADE COUNTY APPROVED

NOA No.: 08-0610.03
Expiration Date: 01/15/14
Approval Date: 01/15/09

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Built-Up Roofing
Material:	Fiberglass, Organic
Deck Type:	Concrete
Maximum Design Pressure	-285 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Durapax Glass Fiber Base Sheet	324sq. ft.	ASTM D 4601 Type II	Asphalt coated, glass fiber mat for use as a base sheet in built-up roof systems
Durapax Organic Base Sheet	216 sq. Ft.	ASTM D 2626	Asphalt saturated and coated #43 organic felt base sheet for use in modified bitumen and conventional built-up roof systems.
Durapax TC Glass Fiber Felt	540 sq. ft.; roll	ASTM D 4990	Glass fiber coal tar coated ply sheet for use in conventional built-up roof systems.
Durapax Tarred Felt	432 sq. ft.; roll weight: 60 lbs.	ASTM D 227	Organic fiber sheet saturated with coal tar for use in coal tar built-up roof systems.
Durapax Coal Tar Roofing Pitch		ASTM D 450 Type I	Coal tar adhesive used in modified and conventional built-up roofing applications.
Durapax Tar Roof Resaturant	5 gallon pails	Proprietary	Refined coal tar pitch, aromatic solvents, non-asbestos fibers and fillers, and wet adhesion surfactants designed to rejuvenate coal tar pitch roofing systems.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville
Stedi-R® High Density Wood Fiberboard	Wood fiber insulation board	Georgia-Pacific

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product	Descriptions	Dimensions	Manufacturer (with current NOA)
1.	N/A	N/A	N/A	N/A

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corporation	3029063	Class 4470	5/22/07
Atlantic and Caribbean Roofing Consulting LLC	ACRC 07-067	TAS-114-D	11/12/07
PRI Construction Materials Technologies LLC	DRPX-001-02-01REV	ASTM D 450	9/25/08
	DRPX-002-02-01REV	ASTM D 4990	9/25/08
	DRPX-003-02-01REV	ASTM D 227	9/25/08
	DRPX-004-02-01REV	ASTM D 4601	9/25/08
	DRPX-006-02-01REV	ASTM D 2626	11/07/08

APPROVED ASSEMBLIES:

Deck Type 4I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A: All layers of insulation adhered with approved asphalt or coal tar pitch to primed deck. Roof membranes are subsequently fully adhered.

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**
ENRGY 3 **Minimum 1.5" thick**	**N/A**	**N/A**

One or more layers of any of the following insulations:

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Stedi-R® High Density Wood Fiberboard **Minimum ½" thick**	**N/A**	**N/A**

Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base insulation. All insulation shall be adhered in full mopping of approved hot asphalt or coal tar pitch within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers 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 facing down.

Base Sheet: Durapax Organic Base Sheet or Durapax Glass Fiber Base Sheet 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 Durapax Tarred Felt, Durapax TC Glass Fiber felt or Durapax TC Premium Glass Fiber Felt adhered in a full mopping of hot Durapax Coal Tar Roofing Pitch applied at not less than 20 lbs./sq.

Cap Sheet: None

Surfacing: Flood Coat of hot Durapax Coal Tar Roofing Pitch at an application rate of 70 lbs./sq.; plus gravel or slag at application rates of 400 and 300 lbs./ sq., respectively, in accordance with ASTM D1863. Or any other Miami Dade approved coating options.

Maximum Design Pressure: -285 psf; (See General Limitation #9.)

CONCRETE 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.

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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE