



**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)

**Henry Company
3802 Miller Park Drive
Garland Texas 75042**

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: Henry Elasto-Seal® 790-11 Hot Applied Rubberized Asphalt
Waterproofing/Roofing Membrane**

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 new NOA consists of pages 1 through 9.

The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 08-1003.09
Expiration Date: 09/02/14
Approval Date: 09/02/09
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WATERPROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing
Materials: Rubberized Asphalt
Maximum Design Pressure N/A

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>
Henry Elasto-Seal 790-11	50 lb boxes 500 lbs Drums	CGSB-37.50-M89	Single component hot fluid applied rubberized asphalt compound for reinforced and non-reinforced applications
Henry 104 Asphalt Primer	5 gallons	ASTM D-41	Light bodied asphalt based material for priming surfaces
Henry Polyester Fabric Reinforcement Sheet	12" x 600' Roll 36"x 600' Roll	Proprietary	Polyester spunbound reinforcement fabric
Henry G100 s/s Base Sheet/ Protection Sheet	39 3/8" x 49.2' Roll	ASTM D-6163	Smooth surfaced , glass reinforced Base sheet/ Protection sheet.
Henry 925 BES Sealant	12 oz tubes	TT-S-00223C Type II, Class A ASTM C- 920 Type S, Grade NS	Multi-component moisture cure sealant.
Synkoflex Waterstop	1" x 3.25' Strips 1" x 3' Strips	Fed. Spec. SSS-210	Specially formulated, non-swelling, preformed joint sealant.
Henry 280DC White Elastomeric Roof Coating	5 gallons	ASTM D-6083	Premium White Elastomeric Roof Coating.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

TABLE 2

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Protection Board	4'x8' 4'x5'	ASTM D-6506 Class A or B Type 2 or 3	Generic prefabricated board with a mineral filled, high melt poit asphalt core between non-woven glass mats.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Date</u>
Underwriters Laboratories Inc.	R12316	UL 790	10/05/01
PRI Asphalt Technologies	HGC-094-02-01	ASTM D-6163	05/22/09
Momentum Technologies, Inc.	AX4F8A	CGSB-37.50-M89	08/05/08



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APPROVED ASSEMBLIES

Deck Type 1 Concrete Decks

Deck Description: Min. 2500 psi, dual Slab Construction

System Type A: HENRY 790-11, Un-reinforced membrane, Topping Slab

Surface Condition Acceptable substrates are cast-in-place and precast concrete. Metal pan decks to which concrete is poured must be venting type. Lightweight concrete is not an acceptable substrate. Verify that surfaces and conditions are ready to accept the work of this section. Commencement of the work or any parts thereof shall mean acceptance of the substrate. Always consult Henry's latest Technical Data Sheet and Specifications before commencement of a project.

All surfaces must be sound, dry, clean and free of oil, grease, dirt, excess mortar, frost or other contaminants. Fill spalled areas in substrate to provide an even plane and remove scaling or latent concrete. Remove curing compounds or any foreign matter detrimental to the adhesion of the primary waterproofing membrane or membrane flashings. New concrete should be cured for a minimum of fourteen days and must be dry before waterproofing membranes are applied. Concrete in vented metal pan decks must be cured a minimum of sixty days. Concrete shall have a wood float finish. Steel float finishes are too smooth and compromise the adhesion of the waterproofing system. Decks with a steel float finish must be sandblasted or equivalent prior to the application of the waterproofing system.

Prefabricated expansion joint assemblies should be in place prior to the application of the primary waterproofing assembly.

If concrete precast panels are used, reinforce joints along length of units with a strip of 12 inches wide Henry Polyester Fabric set in an 18 inches wide, 1/8 inch thick coat of membrane. At joints occurring along the width of the precast units, reinforce with a minimum 12 inches wide crack treatment sheet embedded into an 18 inches wide, 1/8 inch thick coat of membrane.

Crack joint treatment: Seal cracks and joints 1/16 inch to 1/8 inch in width with 12 inches wide, 1/8 inch thick coat of hot rubberized asphalt membrane and a 6 inch wide strip of Henry Polyester Fabric reinforcement, centered over joint. Seal cracks and joints 1/8 inch to 1/4 inch in width with a 12 inches wide strip of Henry Polyester Fabric, 1/8 inch thick coat of hot rubberized asphalt membrane and a 6 inches wide strip of crack treatment or expansion joint membrane, centered over joint.

Expansion joints using or other prefabricated expansion joints shall be installed in accordance with manufacturers published literature.

Apply Henry 104 Asphalt Primer as recommended by manufacturer and allow drying prior to the application of the primary waterproofing membrane or membrane flashings. Note: Membrane will not adhere to wet primer.



Membrane Flashing: At deck to vertical junctures, apply Elasto-Seal®790-11 hot rubberized asphalt membrane to provide a thickness of approximately 1/8" to the vertical faces and a minimum of 4 inches out onto the horizontal surface. Embed G 100 s/s base sheet in the hot rubberized asphalt membrane, avoiding any wrinkles or fishmouths, extending a minimum of 3 inches out onto the horizontal surface. Mechanically attach the flashing sheet to vertical surfaces with metal securement bar where height of flashing exceeds 12 inches. Lap flashing sheet minimum 3 inches on ends. At monolithic pour, use fabric reinforcement as option to flashing sheet.

Coat areas around the drains with hot rubberized asphalt membrane at a thickness of 1/8 inch. Place G100 s/s base sheet over the coated drain flange and extending a minimum 6 inches around the flange. Apply a second coat of hot rubberized asphalt membrane over the flashing sheet at a thickness of 1/8 inch. Apply clamping ring exerting sufficient pressure to affect a seal between clamping ring and membrane.

Temporarily block all drains during the application to prevent blocking of the drains. Remove blocking when work is not in progress and upon completion.

Base Coat: Ensure deck is ready to receive Elasto-Seal® 790-11 hot rubberized asphalt membrane. Apply membrane smooth, free from air pockets, wrinkles, or tears and to Henry's instructions. Ensure full bond of membrane to substrate. Apply first layer of Elasto-Seal® 790-11 hot rubberized asphalt membrane evenly to a minimum thickness of 180 mil minimum average thickness to form a continuous monolithic coating over horizontal and vertical surfaces including previously reinforced areas.

Reinforcement: None.

Top Coat: None. The system may be covered with a 4 mil low density polyethylene sheet to act as a bond breaker and eliminate surface tack.

Protection Course: Henry G 100 s/s protection course shall be rolled onto Elasto-Seal® 790-11 hot rubberized asphalt membrane while still warm and tacky. Lap the protection sheet 2 inches on side laps and 6 inches on end laps. Starting at the low points or drains lay the protection course membrane in full continuous sheets in a shingle pattern. Stagger all end laps.

Integrity Test: Upon the completion of the primary waterproofing membrane, protection course and all associated terminations. Flood test shall be required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Verify that the structure can support the dead load weight of a watertight test before proceeding. Plug drains and provide necessary barriers to contain flood water. Flood deck with 2" head of water and check for leaks after 24 hours. Any leaks found shall be repaired immediately and the area shall be retested. Remove temporary stops and plugs. If deficiencies are noted, no other work is to proceed with out prior direction from the Design Professional.



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.

Flashing Reflective Coating: Apply Henry 280DC at the rate of 2 to 2 ½ gallons per square in two coats to all exposed flashings.

Protection Board: Protection boards shall be placed directly over the protection course. Apply protection board sheets beginning at the low point of the deck, align membrane along the centerline of floor drain (s) and layout. The protection board sheets on the side and end laps shall be 1 in. to 2 in.

Surfacing: Structural concrete slab, minimum 2500 psi shall be designed to comply with applicable Florida Building Code requirements

Maximum Design Pressure: N/A



Deck Type 1 Concrete Decks

Deck Description: Min. 2500 psi, dual Slab Construction

System Type B: HENRY 790-11, Reinforced membrane, Topping Slab

Surface Condition Acceptable substrates are cast-in-place and precast concrete. Metal pan decks to which concrete is poured must be venting type. Lightweight concrete is not an acceptable substrate. Verify that surfaces and conditions are ready to accept the work of this section. Commencement of the work or any parts thereof shall mean acceptance of the substrate. Always consult Henry's latest Technical Data Sheet and Specifications before commencement of a project.

All surfaces must be sound, dry, clean and free of oil, grease, dirt, excess mortar, frost or other contaminants. Fill spalled areas in substrate to provide an even plane and remove scaling or latent concrete. Remove curing compounds or any foreign matter detrimental to the adhesion of the primary waterproofing membrane or membrane flashings. New concrete should be cured for a minimum of fourteen days and must be dry before waterproofing membranes are applied. Concrete in vented metal pan decks must be cured a minimum of sixty days. Concrete shall have a wood float finish. Steel float finishes are too smooth and compromise the adhesion of the waterproofing system. Decks with a steel float finish must be sandblasted or equivalent prior to the application of the waterproofing system.

Prefabricated expansion joint assemblies should be in place prior to the application of the primary waterproofing assembly.

If concrete precast panels are used, reinforce joints along length of units with a strip of 12 inches wide Henry Polyester Fabric set in an 18 inches wide, 1/8 inch thick coat of membrane. At joints occurring along the width of the precast units, reinforce with a minimum 12 inches wide crack treatment sheet embedded into an 18 inches wide, 1/8 inch thick coat of membrane.

Crack joint treatment: Seal cracks and joints 1/16 inch to 1/8 inch in width with 12 inches wide, 1/8 inch thick coat of hot rubberized asphalt membrane and a 6 inch wide strip of Henry Polyester Fabric reinforcement, centered over joint. Seal cracks and joints 1/8 inch to 1/4 inch in width with a 12 inches wide strip of Henry Polyester Fabric, 1/8 inch thick coat of hot rubberized asphalt membrane and a 6 inches wide strip of crack treatment or expansion joint membrane, centered over joint.

Expansion joints using or other prefabricated expansion joints shall be installed in accordance with manufacturers published literature.

Apply Henry 104 Asphalt Primer as recommended by manufacturer and allow drying prior to the application of the primary waterproofing membrane or membrane flashings. Note: Membrane will not adhere to wet primer.



Membrane Flashing: Apply Elasto-Seal® 790-11 hot rubberized asphalt membrane to provide a thickness of approximately 1/8 inch to the vertical faces and a minimum of 4 inches out onto the horizontal surface. Embed G 100 s/s base sheet in the hot rubberized asphalt membrane, avoiding any wrinkles or fishmouths, extending a minimum of 3 inches out onto the horizontal surface. Mechanically attach the flashing sheet to vertical surfaces with metal securement bar where height of flashing exceeds 12 inches. Lap flashing sheet minimum 3 inches on ends. At monolithic pour, use fabric reinforcement as option to flashing sheet.

Coat areas around the drains with hot rubberized asphalt membrane at a thickness of 1/8 inch. Place G100 s/s base sheet over the coated drain flange and extending a minimum 6 inches around the flange. Apply a second coat of hot rubberized asphalt membrane over the flashing sheet at a thickness of 1/8 inch. Apply clamping ring exerting sufficient pressure to affect a seal between clamping ring and membrane.

Temporarily block all drains during the application to prevent blocking of the drains. Remove blocking when work is not in progress and upon completion.

Base Coat: Ensure deck is ready to receive Elasto-Seal® 790-11 hot rubberized asphalt membrane. Apply membrane smooth, free from air pockets, wrinkles, or tears and to Henry's instructions. Ensure full bond of membrane to substrate.

Apply first layer of Elasto-Seal® 790-11 hot rubberized asphalt membrane evenly to a minimum thickness of 90 mil minimum average thickness to form a continuous monolithic coating over horizontal and vertical surfaces including previously reinforced areas.

Reinforcement: Apply Henry Polyester fabric reinforcing sheet and firmly press into first layer of hot membrane. Overlap fabric approximately 1/4 inch ensuring that a layer of membrane is present between overlaps. Apply second layer of Elasto® 790-11 hot rubberized asphalt membrane to a minimum thickness of 1/8 inches (125 mils) providing a total thickness of 215 mils.

Protection Course: Henry G 100 s/s protection course shall be rolled onto Elasto-Seal® 790-11 hot rubberized asphalt membrane while still warm and tacky. Lap the protection sheet 2 inches on side laps and 6 inches on end laps. Starting at the low points or drains lay the protection course membrane in full continuous sheets in a shingle pattern. Stagger all end laps.

Integrity Test: Upon the completion of the primary waterproofing membrane, protection course and all associated terminations. Flood test shall be required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Verify that the structure can support the dead load weight of a watertight test before proceeding. Plug drains and provide necessary barriers to contain flood water. Flood deck with 2" head of water and check for leaks after 24 hours. Any leaks found shall be repaired immediately and the area shall be retested. Remove temporary stops and plugs. If deficiencies are noted, no other work is to proceed with out prior direction from the Design Professional.



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.

Flashing Reflective Coating: Apply Henry 280DC at the rate of 2 to 2 ½ gallons per square in two coats to all exposed flashings.

Protection Board: Protection boards shall be placed directly over the protection course. Apply protection board sheets beginning at the low point of the deck, align membrane along the centerline of floor drain (s) and layout. The protection board sheets on the side and end laps shall be 1 in. to 2 in.

Surfacing: Structural concrete slab, minimum 2500 psi shall be designed to comply with applicable Florida Building Code requirements

Maximum Design Pressure: N/A



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. A copy of the integrity test report described herein in accordance with ASTM D5957 shall be provided to the Building Official for review at time of final inspection.
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 Henry Company and shall be submitted to the Building Official for review.
5. All work shall be performed by a Contractor licensed to do roofing/waterproofing in Miami-Dade County and be a Factory Trained 'Qualified Applicator' approved and licensed by Henry Company.
6. 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.
7. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
8. Henry Company Elasto® 790-11 hot rubberized asphalt membrane systems shall not be installed over lightweight insulating concrete.
9. Henry Company Elasto® 790-11 hot rubberized asphalt membrane shall not be exposed to the weather and shall be protected by a protection sheet or other approved protection method from traffic.
10. Henry Company Elasto® 790-11 hot rubberized asphalt membrane systems shall not be installed on wet or damp decks without consultation with Henry Company.
11. All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below



END OF THIS ACCEPTANCE



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