



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

Carlisle Coatings & Waterproofing, Inc.
900 Hensley Lane
Wylie, TX 75098

SCOPE:

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

DESCRIPTION: CCW-500R Hot-Applied Liquid Waterproofing 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 NOA renews and revises NOA No. 12-0801.01 and consists of pages 1 through 16.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 17-0228.01
Expiration Date: 08/12/22
Approval Date: 07/20/17
Page 1 of 16

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Waterproofing
Material:	Rubberized Asphalt
Deck Type:	Concrete
Maximum Design Pressure:	-257.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
CCW-500 Hot-Applied Liquid Membrane	45 lb. Boxes	CGBS-37.50-M89	Single component, hot-applied Rubberized asphalt compound for Reinforced and non-reinforced Applications.
CCW-550 Primer	5 gal. Pails, 55 gal. Drums	ASTM D41	Concrete surface primer.
CCW Reinforcing Fabric	59" x 610' rolls	Proprietary	Polyester spunbonded reinforcement fabric.
CCW-711-90 Sheet Membrane and flashing	18", 36", 48" wide 45' roll	Proprietary	90 mil self-ashesive preformed flashing.
CCW Protection Board H	0.125"x 3' x 36'	ASTM D6380	Asphalt impregnated protection board.
CCW Sure Drain H	4' x 50' roll	Proprietary	Drainage composite, 0.375" core.
CCW Sure Drain H-2	4' x 50' roll	Proprietary	Drainage composite, 0.45" core.
CCW-201 Sealant	1.5 gal. Kit	TAS 132	Multi-component polyurethane sealant

PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Hanover pavers	23-1/2" x 23-1/2" x 2"		8500 psi min. compressive strength, 5% water absorption max	Hanover Architectural Products
Concrete pavers	1' x 1' x 1 1/2" thick	ASTM C936	8000 psi Min. Compressive strength, 5% water absorption max.	PaverModule
Concrete pavers	1' x 1' x 1 1/2" thick	ASTM C936	8000 psi Min. Compressive strength, 5% water absorption max.	TREMRON
Mortar mix	3:1 mix		Three parts white masonry sand to one part cement (Portland Cement Type I).	Generic
Sure-Seal® EPDM	Various	ASTM D4637	Non-reinforced EPDM membrane	Carlisle Syntec, Inc.

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Report Date</u>
IRT of S. Florida, Inc..	C-99015 3.9.99	TAS 114	04/05/99
Atlantic & Caribbean Roof Consulting, LLC	ACRC 11-028	TAS 114	05/17/11
	ACRC 08-053	TAS 114	09/24/08
Trinity ERD	C43600.08.13	CGSB 37.50-M89	08/02/13
	C43600.07.13-4-R1	ASTM D 41	08/05/13
	C43600.07.13-2	Physical Properties	07/29/13
	C43600.07.13-5-R1	TAS 132	08/28/13
	C13920.10.09-1-R2	ASTM D 4637	08/08/11
	C43600.07.13-3	ASTM D 6380	07/29/13

APPROVED ASSEMBLIES:

Deck Type 3 Concrete Decks
Deck Description: Min. 2500 psi, dual slab construction
System Type F(1): CCW-500, Un-reinforced, Top slab

Substrate Preparation: New concrete shall be water cured and be in place for 14 days minimum, 21 days preferred. If curing agents are required, they must be of the self-dissipating type and be approved by the membrane manufacturer. Venting of the deck from the underside is recommended to facilitate drying. Concrete around drain shall be depressed to promote positive drainage.

Surface shall be structurally sound, dry, and free of dust, dirt, laitance, non-approved curing agent or other contamination which may affect adhesion of the membrane. Remove splatters, fins, ridges or other projections to provide a level surface. Fill holes, honeycombs, rock pockets, spalls or other voids and indentations with approved concrete patching compound. Grind or fill surface at cold joints where each pour is at a different plane to provide a smooth and level surface.

Saw cut cracks greater than $\frac{1}{16}$ " wide to $\frac{1}{4}$ " x $\frac{1}{4}$ ". Saw cut a $\frac{1}{4}$ " x $\frac{1}{4}$ " kerf around drain flanges. Mix CCW-201 Sealant and apply a $1\text{-}\frac{1}{2}$ " x $1\text{-}\frac{1}{2}$ ", 45 degree sealant cant at the juncture of all vertical and horizontal surfaces including pipes and all other projections. Fill saw cut cracks and saw cuts around drain flanges. Install backer rod and sealant to all expansion joints. Allow the sealant to cure overnight.

Apply a thin, even coat of CCW-550 Primer to the entire surface to receive waterproofing. Apply primer at a rate of 350-450 ft² per gallon. Allow the primer to dry. *Note: Membrane will not properly adhere to wet primer.*

Membrane Flashing: Apply a thin, even coat of CCW-550 Primer, 16" wide, centered over all cracks greater than $\frac{1}{16}$ " wide and all moving cracks. Allow primer to dry. Install a 12" wide strip of CCW-711-90 Sheet Membrane Flashing, centered over the cracks.

At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin even coat of CCW-550 Primer to the vertical section to the height indicated on the drawings (8" minimum recommended) and 8" onto the deck. Flashing must terminate a minimum of 1" below top of wearing slab. Allow the primer to dry. Apply CCW-711-90 Sheet Membrane flashing over primed area on the vertical section and extend flashing 6" onto the deck surface. Termination of flashing: Terminate flashing on wall per Carlisle 500-9 details. Apply CCW-500 over all horizontal flashing sections during membrane installation. Install Sure-Seal[®] EPDM flashing in exposed areas per Carlisle recommendations and 500-4B tie-in detail.

Apply a thin, even coat of CCW-550 Primer to drain flange and a 4 ft. by 4 ft. area around drain. Allow primer to dry. Install a 3 ft. by 3 ft. piece of CCW-711-90 Sheet Membrane Flashing, centered over the drain. Install drain clamping ring. Cut away flashing inside drain opening. Detail expansion joints per Carlisle approved drawings.

Base Coat: Blocks of CCW-500 shall be melted in a twin wall (oil or air jacketed) kettle with 8 continuous agitation. **Caution:Do not exceed maximum safe operating temperature of 400°F.** Apply a 6" wide, 125 mil thickness coat of CCW-500 Hot Applied Liquid Membrane over non-moving cracks and cold joints. Mark off the deck in 5 ft. x 10 ft. sections. Apply CCW-500 Hot Applied Membrane to the primed surface, including over all previously detailed areas, at a rate of 10 ft²/gallon (5 gallons per marked 50 square foot area) to obtain 150 mils minimum average membrane thickness.

Reinforcement: None.

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

Protection Course: Once integrity testing is complete, place CCW Sure Drain™ H or CCW Protection Board H over the membrane as soon as possible. Tightly butt all protection, leaving no gaps greater than 0.125".

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

Inspection: Inspection shall be witnessed by the Building Official, the building owner's representative, general contractor, architect/engineer, waterproofing contractor, and a representative of Carlisle Coatings & Waterproofing Incorporated.

Repairs: In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and apply CCW-500 Hot Applied Liquid Membrane to the damaged area.

Surfacing: Structural Concrete Slab, minimum 2500 psi.,

Maximum Design Pressure: N/A



Deck Type 3 Concrete Decks
Deck Description: Min. 2500 psi, dual slab construction
System Type F(2): CCW-500, Reinforced, Top slab

Substrate Preparation: New concrete shall be water cured and be in place for 14 days minimum, 21 days preferred. If curing agents are required, they must be of the self-dissipating type and be approved by the membrane manufacturer. Venting of the deck from the underside is recommended to facilitate drying. Concrete around drain shall be depressed to promote positive drainage.

Surface shall be structurally sound, dry, and free of dust, dirt, laitance, non-approved curing agent or other contamination which may affect adhesion of the membrane. Remove splatters, fins, ridges or other projections to provide a level surface. Fill holes, honeycombs, rock pockets, spalls or other voids and indentations with approved concrete patching compound. Grind or fill surface at cold joints where each pour is at a different plane to provide a smooth and level surface.

Saw cut cracks greater than $\frac{1}{16}$ " wide to $\frac{1}{4}$ " x $\frac{1}{4}$ ". Saw cut a $\frac{1}{4}$ " x $\frac{1}{4}$ " kerf around drain flanges. Mix CCW-201 Sealant and apply a 1- $\frac{1}{2}$ " x 1- $\frac{1}{2}$ ", 45 degree sealant cant at the juncture of all vertical and horizontal surfaces including pipes and all other projections. Fill saw cut cracks and saw cuts around drain flanges. Install backer rod and sealant to all expansion joints. Allow the sealant to cure overnight.

Apply a thin, even coat of CCW-550 Primer to the entire surface to receive waterproofing. Apply primer at a rate of 350-450 ft² per gallon. Allow the primer to dry. *Note: Membrane will not properly adhere to wet primer.*

Membrane Flashing: Apply a thin, even coat of CCW-550 Primer, 16" wide, centered over all cracks greater than $\frac{1}{16}$ " wide and all moving cracks. Allow primer to dry. Install a 12" wide strip of CCW-711-90 Sheet Membrane Flashing, centered over the cracks.

At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin even coat of CCW-550 Primer to the vertical wall section to the height of a minimum of 8", and 8" onto the deck. Flashing must terminate a minimum of 1" below top of wearing slab. Allow the primer to dry. Apply CCW-711-90 Sheet Membrane flashing over primed area on the vertical section and extend flashing 6" onto the deck surface. Termination of flashing: Terminate flashing on wall per Carlisle 500-9 details. Apply CCW-500-R over all horizontal flashing sections during membrane installation. Install Sure-Seal[®] EPDM flashing in exposed areas per Carlisle recommendations and 500-4B tie-in detail.

Apply a thin, even coat of CCW-550 Primer to drain flange and a 4 ft. by 4 ft. area around drain. Allow primer to dry. Install a 3 ft. by 3 ft. piece of CCW-711-90 Sheet Membrane Flashing, centered over the drain. Install drain clamping ring. Cut away flashing inside drain opening. Detail expansion joints per Carlisle approved drawings.



- Base Coat:** Blocks of CCW-500 shall be melted in a twin wall (oil or air jacketed) kettle with continuous agitation. **Caution: Do not exceed maximum safe operating temperature of 400°F.** Apply a 6" wide, 125 mil thickness coat of CCW-500 Hot Applied Liquid Membrane over non-moving cracks and cold joints. Mark off the deck in 9 ft. x 10 ft. sections. Apply CCW-500 Hot Applied Membrane to the primed surface, including over all previously detailed areas, at a rate 18 ft²/gallon (5 gallons per marked 90 square foot area) as required to obtain 90 mils minimum average thickness.
- Apply reinforcement over membrane immediately, while membrane is still warm and tacky to ensure adhesion. Ensure that no air pockets or fish-mouths exist.
- Reinforcement:** Install CCW Reinforcing Fabric as quickly as possible, while the CCW-500 Liquid Membrane is still tacky. Place fabric carefully to avoid wrinkles, overlap edges 0" to ½".
- Top Coat:** Top coat reinforcing fabric with a second coat of CCW-500 Hot Applied Membrane at a rate 18 ft²/gallon (90 mils) for 180 mil systems or 13 ft²/gallon (125 mils) for 215 mil systems as required to obtain the specified total system thickness. The system may be covered with a 4 mil low density polyethylene sheet to eliminate surface tack.
- Protection Course:** Once integrity testing is complete, place CCW Sure Drain™ H or CCW Protection Board H over the membrane as soon as possible. Tightly butt all protection, leaving no gaps greater than 0.125".
- Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. Water may be maintained for a period longer than 24 hours if required.
- Inspection:** Inspection shall be witnessed by the Building Official, the building owner's representative, general contractor, architect/engineer, waterproofing contractor, and a representative of Carlisle Coatings & Waterproofing Incorporated.
- Repairs:** In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and apply CCW-500 Hot Applied Liquid Membrane to the damaged area.
- Surfacing:** Structural Concrete Slab, minimum 2500 psi.
- Maximum Design Pressure:** N/A



Deck Type 3	Concrete Decks
Deck Description:	Min. 2500 psi
System Type F(3):	CCW-500, Reinforced, Pavers
Substrate:	New concrete shall be water cured and be in place for 14 days minimum, 21 days preferred. If curing agents are required, they must be of the self-dissipating type and be approved by Carlisle Coatings & Waterproofing Inc. Venting of the deck from the underside is recommended to facilitate drying. Concrete around drain shall be depressed to promote positive drainage.
Substrate Preparation:	<p>Surface shall be structurally sound, dry, and free of dust, dirt, laitance, non-approved curing agent or other contamination which may affect adhesion of the membrane. Remove splatters, fins, ridges or other projections to provide a level surface. Fill holes, honeycombs, rock pockets, spalls or other voids and indentations with approved concrete patching compound. Grind or fill surface at cold joints where each pour is at a different plane to provide a smooth and level surface.</p> <p>Saw cut cracks greater than 1/16" wide to 1/4" X 1/4". Saw cut a 1/4" X 1/4" kerf around drain flanges. Mix CCW-201 Sealant and apply a 1-1/2" X 1-1/2", 45 degree sealant cant at the juncture of all vertical and horizontal surfaces including pipes and all other projections. Fill saw cut cracks and saw cuts around drain flanges. Install backer rod and sealant to all expansion joints. Allow the sealant to cure overnight.</p>
Membrane Flashing:	<p>Apply a thin, even coat of CCW-550 Primer, 16" wide, centered over all cracks greater than 1/16" wide and all moving cracks. Allow primer to dry. Install a 12" wide strip of CCW-711-90 Sheet Membrane Flashing, centered over the cracks.</p> <p>At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin even coat of CCW-550 Primer to the vertical wall section to the height of a minimum of 8", and 8" onto the deck. Flashing must terminate a minimum of 1" below top of wearing slab. Allow the primer to dry. Apply CCW-711-90 Sheet Membrane flashing over primed area on the vertical section and extend flashing 6" onto the deck surface. Termination of flashing: Terminate flashing on wall per Carlisle 500-9 details. Apply CCW-500-R over all horizontal flashing sections during membrane installation. Install Sure-Seal® EPDM flashing in exposed areas per Carlisle recommendations and 500-4B tie-in detail.</p> <p>Apply a thin, even coat of CCW-550 Primer to drain flange and a 4 ft. by 4 ft. area around drain. Allow primer to dry. Install a 3 ft. by 3 ft. piece of CCW-711-90 Sheet Membrane Flashing, centered over the drain. Install drain clamping ring. Cut away flashing inside drain opening. Detail expansion joints per Carlisle approved drawings.</p>



- Primer:** Apply a thin, even coat of CCW-550 Primer to the entire surface to receive waterproofing. Apply primer at a rate of 350-450 ft² per gallon. Allow the primer to dry. *Note: Membrane will not properly adhere to wet primer.*
- Base Coat:** Blocks of CCW-500 shall be melted in a twin wall (oil or air jacketed) kettle with continuous agitation. **Caution: Do not exceed maximum safe operating temperature of 400°F.** Apply a 6" wide, 125 mil thickness coat of CCW-500 Hot Applied Liquid Membrane over non-moving cracks and cold joints. Mark off the deck in 9 ft. x 10 ft. sections. Apply CCW-500 Hot Applied Membrane to the primed surface, including over all previously detailed areas, at a rate 18 ft²/gallon (5 gallons per marked 90 square foot area) as required to obtain 90 mils minimum average thickness.
- Reinforcement:** Install CCW Reinforcing Fabric as quickly as possible, while the CCW-500 Liquid Membrane is still warm and tacky. Place fabric carefully to avoid wrinkles, overlap edges 0" to ½". Ensure that no air pockets or fish-mouths exist.
- Top Coat:** Topcoat reinforcing fabric with a second coat of CCW-500 Hot Applied Membrane at a rate of 13 ft²/gallon (125 mils) for 215 mil systems as required obtaining the specified total system thickness.
- Protection Course:** Place CCW Protection Board H over the membrane as soon as possible, while the CCW-500 Liquid Membrane is still warm and tacky. Tightly butt all protection, leaving no gaps greater than 0.125".
- 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.
- Repairs:** In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and reapply CCW-500 Hot Applied Liquid Membrane to the damaged area.
- Surfacing:** Pavers (1' x 1' x 1½" pre-manufactured concrete pavers; min. wt. 150 lbs/ft³) shall be set on top of membrane in a minimum 2" thick 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:** -147.5 psf (See General Limitation #9)



Deck Type 3 Concrete Decks

Deck Description: Min. 2500 psi

System Type F(4): CCW-500, Reinforced, Pavers

Substrate: New concrete shall be water cured and be in place for 14 days minimum, 21 days preferred. If curing agents are required, they must be of the self-dissipating type and be approved by Carlisle Coatings & Waterproofing Inc. Venting of the deck from the underside is recommended to facilitate drying. Concrete around drain shall be depressed to promote positive drainage.

Substrate Preparation: Surface shall be structurally sound, dry, and free of dust, dirt, laitance, non-approved curing agent or other contamination which may affect adhesion of the membrane. Remove splatters, fins, ridges or other projections to provide a level surface. Fill holes, honeycombs, rock pockets, spalls or other voids and indentations with approved concrete patching compound. Grind or fill surface at cold joints where each pour is at a different plane to provide a smooth and level surface.

Saw cut cracks greater than 1/16" wide to 1/4" X 1/4". Saw cut a 1/4" X 1/4" kerf around drain flanges. Mix CCW-201 Sealant and apply a 1-1/2" X 1-1/2", 45 degree sealant cant at the juncture of all vertical and horizontal surfaces including pipes and all other projections. Fill saw cut cracks and saw cuts around drain flanges. Install backer rod and sealant to all expansion joints. Allow the sealant to cure overnight.

Membrane Flashing: Apply a thin, even coat of CCW-550 Primer, 16" wide, centered over all cracks greater than 1/16" wide and all moving cracks. Allow primer to dry. Install a 12" wide strip of CCW-711-90 Sheet Membrane Flashing, centered over the cracks.

At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin even coat of CCW-550 Primer to the vertical wall section to the height of a minimum of 8", and 8" onto the deck. Flashing must terminate a minimum of 1" below top of wearing slab. Allow the primer to dry. Apply CCW-711-90 Sheet Membrane flashing over primed area on the vertical section and extend flashing 6" onto the deck surface. Termination of flashing: Terminate flashing on wall per Carlisle 500-9 details. Apply CCW-500-R over all horizontal flashing sections during membrane installation. Install Sure-Seal® EPDM flashing in exposed areas per Carlisle recommendations and 500-4B tie-in detail.

Apply a thin, even coat of CCW-550 Primer to drain flange and a 4 ft. by 4 ft. area around drain. Allow primer to dry. Install a 3 ft. by 3 ft. piece of CCW-711-90 Sheet Membrane Flashing, centered over the drain. Install drain clamping ring. Cut away flashing inside drain opening. Detail expansion joints per Carlisle approved drawings.



- Primer:** Apply a thin, even coat of CCW-550 Primer to the entire surface to receive waterproofing. Apply primer at a rate of 350-450 ft² per gallon. Allow the primer to dry. *Note: Membrane will not properly adhere to wet primer.*
- Base Coat:** Blocks of CCW-500 shall be melted in a twin wall (oil or air jacketed) kettle with continuous agitation. **Caution: Do not exceed maximum safe operating temperature of 400°F.** Apply a 6" wide, 125 mil thickness coat of CCW-500 Hot Applied Liquid Membrane over non-moving cracks and cold joints. Mark off the deck in 9 ft. x 10 ft. sections. Apply CCW-500 Hot Applied Membrane to the primed surface, including over all previously detailed areas, at a rate 18 ft²/gallon (5 gallons per marked 90 square foot area) as required to obtain 90 mils minimum average thickness.
- Reinforcement:** Install CCW Reinforcing Fabric as quickly as possible, while the CCW-500 Liquid Membrane is still warm and tacky. Place fabric carefully to avoid wrinkles, overlap edges 0" to ½". Ensure that no air pockets or fish-mouths exist.
- Top Coat:** Top coat reinforcing fabric with a second coat of CCW-500 Hot Applied Membrane at a rate of 13 ft²/gallon (125 mils) for 215 mil systems as required to obtain the specified total system thickness.
- Protection Course:** Place CCW Protection Board H over the membrane as soon as possible. Tightly butt all protection, leaving no gaps greater than 0.125".
- 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.
- Repairs:** In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and apply CCW-500 Hot Applied Liquid Membrane to the damaged area.
- Surfacing:** Concrete Pavers by TREMRON embedded in minimum 2" thick bet of mortar mix.
- Maximum Design Pressure:** -167.5 psf (See General Limitation #9)



Deck Type 3 Concrete Decks
Deck Description: Min. 2500 psi
System Type F(5): CCW-500, Reinforced, Pavers

Substrate: New concrete shall be water cured and be in place for 14 days minimum, 21 days preferred. If curing agents are required, they must be of the self-dissipating type and be approved by Carlisle Coatings & Waterproofing Inc. Venting of the deck from the underside is recommended to facilitate drying. Concrete around drain shall be depressed to promote positive drainage.

Substrate Preparation: Surface shall be structurally sound, dry, and free of dust, dirt, laitance, non-approved curing agent or other contamination which may affect adhesion of the membrane. Remove splatters, fins, ridges or other projections to provide a level surface. Fill holes, honeycombs, rock pockets, spalls or other voids and indentations with approved concrete patching compound. Grind or fill surface at cold joints where each pour is at a different plane to provide a smooth and level surface.

Saw cut cracks greater than 1/16" wide to 1/4" X 1/4". Saw cut a 1/4" X 1/4" kerf around drain flanges. Mix CCW-201 Sealant and apply a 1-1/2" X 1-1/2", 45 degree sealant cant at the juncture of all vertical and horizontal surfaces including pipes and all other projections. Fill saw cut cracks and saw cuts around drain flanges. Install backer rod and sealant to all expansion joints. Allow the sealant to cure overnight.

Membrane Flashing: Apply a thin, even coat of CCW-550 Primer, 16" wide, centered over all cracks greater than 1/16" wide and all moving cracks. Allow primer to dry. Install a 12" wide strip of CCW-711-90 Sheet Membrane Flashing, centered over the cracks.

At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin even coat of CCW-550 Primer to the vertical wall section to the height of a minimum of 8", and 8" onto the deck. Flashing must terminate a minimum of 1" below top of wearing slab. Allow the primer to dry. Apply CCW-711-90 Sheet Membrane flashing over primed area on the vertical section and extend flashing 6" onto the deck surface. Termination of flashing: Terminate flashing on wall per Carlisle 500-9 details. Apply CCW-500-R over all horizontal flashing sections during membrane installation. Install Sure-Seal® EPDM flashing in exposed areas per Carlisle recommendations and 500-4B tie-in detail.

Apply a thin, even coat of CCW-550 Primer to drain flange and a 4 ft. by 4 ft. area around drain. Allow primer to dry. Install a 3 ft. by 3 ft. piece of CCW-711-90 Sheet Membrane Flashing, centered over the drain. Install drain clamping ring. Cut away flashing inside drain opening. Detail expansion joints per Carlisle approved drawings.



- Primer:** Apply a thin, even coat of CCW-550 Primer to the entire surface to receive waterproofing. Apply primer at a rate of 350-450 ft² per gallon. Allow the primer to dry. *Note: Membrane will not properly adhere to wet primer.*
- Base Coat:** Blocks of CCW-500 shall be melted in a twin wall (oil or air jacketed) kettle with continuous agitation. **Caution: Do not exceed maximum safe operating temperature of 400°F.** Apply a 6" wide, 125 mil thickness coat of CCW-500 Hot Applied Liquid Membrane over non-moving cracks and cold joints. Mark off the deck in 9 ft. x 10 ft. sections. Apply CCW-500 Hot Applied Membrane to the primed surface, including over all previously detailed areas, at a rate 18 ft²/gallon (5 gallons per marked 90 square foot area) as required to obtain 90 mils minimum average thickness.
- Reinforcement:** Install CCW Reinforcing Fabric as quickly as possible, while the CCW-500 Liquid Membrane is still warm and tacky. Place fabric carefully to avoid wrinkles, overlap edges 0" to ½". Ensure that no air pockets or fish-mouths exist.
- Top Coat:** Top coat reinforcing fabric with a second coat of CCW-500 Hot Applied Membrane at a rate of 13 ft²/gallon (125 mils) for 215 mil systems as required to obtain the specified total system thickness.
- Protection Course:** Place CCW Protection Board H over the membrane as soon as possible. Tightly butt all protection, leaving no gaps greater than 0.125".
- 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.
- Repairs:** In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and apply CCW-500 Hot Applied Liquid Membrane to the damaged area.
- Surfacing:** Hanover Concrete Pavers set in CCW-500 applied in 1.5" ribbons spaced 3" apart.
- Maximum Design Pressure:** -240 psf (See General Limitation #9)



Deck Type 3	Concrete Decks
Deck Description:	Min. 2500 psi
System F(6):	CCW-500 with Drainage Mat for Planter Boxes.
Substrate:	New concrete shall be cured and be in place for 14 days minimum and have a moisture content of 5% or less. Concrete substrate should have a little broom for the floor with the wall being void of “bug hole” and “rock pockets”. Concrete around drain shall be depressed to promote positive drainage.
Substrate Preparation: (Floor & Walls)	Apply a thin, even coat of CCW-550 Primer, by airless spray methods at a rate of 500 square feet per gallon to the entire planter box. Allow primer to set a minimum of 30 minutes.
Membrane Flashing:	Apply a 60 mil detail coat of CCW-500 to all penetrations, transitions and corners. Install CCW-711-90 onto the prepared area while the CCW-500 is still warm and tacky.
Base Coat: (Floor & Walls)	Apply CCW-500 Hot Applied Membrane to the primed surface of the entire planter box, including over all previously detailed areas, at a rate 18 ft ² /gallon as required to obtain 90 mils minimum average thickness.
Reinforcement: (Floor)	Install CCW Reinforcing Fabric as quickly as possible to the planter box floor, while the CCW-500 Liquid Membrane is still warm and tacky. Place fabric carefully to avoid wrinkles, overlap edges 0" to ½". Ensure that no air pockets or fish-mouths exist.
Top Coat: (Walls)	Apply a top coat of CCW-500 Hot Applied Membrane at a rate of 18 ft ² /gallon as required to obtain 90 mils minimum average thickness to the planter box wall.
Top Coat: (Floor)	Top coat the CCW Reinforcing Fabric with a second coat of CCW-500 Hot Applied Membrane at a rate of 13 ft ² /gallon as required to obtain 125 mils minimum average thickness to the planter box floor,.
Protection Course: (Floor & Walls)	Place CCW Protection Board HS into the hot CCW-500 as soon as possible to the entire planter box. Tightly butt all protection, leaving no gaps greater than 0.125".
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.
Repairs:	In the event the CCW-500 Hot Applied Liquid Membrane is damaged, clean the area with a cloth wet with mineral spirits and apply CCW-500 Hot Applied Liquid Membrane to the damaged area.



**Drainage Mat:
(Floor & Walls)**

Loose-lay the CCW-MiraDrain 6200 onto the planter walls. Loose-lay the CCW-MiraDrain 9000 onto the planter floor and connect the filter fabric of the MiraDrain 6200 and MiraDrain 9000 to create a continuous drainage plane.

Surfacing:

Backfill the planters with soil to a minimum depth of 24”.

**Maximum Design
Pressure:**

-257.5 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. 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. 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 Carlisle Coatings & Waterproofing, Inc. Carlisle Coatings & Waterproofing, Inc., Hot Applied Liquid Membrane Systems shall be installed solely by approved applicators and only with installation and heating equipment approved by Carlisle Coatings & Waterproofing, Inc.
4. 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.
5. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
6. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by Carlisle Coatings & Waterproofing, Inc., shall be submitted to the Building Official for review.
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 and/or RAS 137. 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. Carlisle Coatings & Waterproofing, Inc., Hot Applied Liquid Membrane Systems shall not be installed without consultation with Carlisle Coatings & Waterproofing, Inc., if ambient or surface temperature is below 0°F. Do not apply to wet or frozen concrete surface.
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. Carlisle Coatings & Waterproofing, 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.
11. Carlisle Coatings & Waterproofing, Inc., Hot Applied Liquid Membrane Systems shall not be installed over lightweight insulating concrete.
12. 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.
13. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

