

**Evaluation Report Deco-Flash**  
May 25, 2016

**Product Description:** Deco-Flash Rigid PVC Flashing System, FC45/65/75, J45/65/75, or AW1/MF65

**Manufacturer:** Deco-Flash, 4717 Oak Fair Blvd., Tampa, FL 33610

**Statement of Compliance:** This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (2)(d). This product complies with the window/door flashing requirements of the 5<sup>th</sup> Edition (2014) Florida Building Code Building and Residential Volumes including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

**Scope of Report:** This report addresses the code compliance of the Deco-Flash product only and is general in nature. Site-specific considerations such as but not limited to the attachment and integration of the Deco-Flash product to the drainage plane or water management system of the wall construction are beyond the scope of this evaluation. The correct integration of the Deco-Flash product to the water-resistive barrier (WRB) of the wall construction is the responsibility of the architect, engineer of record, delegated engineer, contractor, or other design professional for each site location, and is beyond the scope of this evaluation.

**Technical Documentation:**

- 1) This report, prepared by Lucas A. Turner, P.E., at 1239 Jabara Ave., North Port, FL
- 2) Manufacturer's published installation instructions, attached
- 3) Miami-Dade NOA's 14-0820.11 and .12, indicating ASTM D635, D1929, D2843, E84, and D638 (exposed and unexposed consistent with Sect. 2614 of FBC) compliance for white and brown-coated white rigid PVC extrusions with compliance to the 2010 Florida Building Code. I have evaluated these NOAs and find that they comply with the requirements of the 5<sup>th</sup> Ed. (2014) Florida Building Code for use in this product.

**Installation:**

- 1) Deco-Flash must be installed according to manufacturer's instructions, attached.
- 2) Windows or doors used with Deco-Flash must be installed in accordance with window or door manufacturer's attachment instructions.

**Findings of Evaluation:**

- 5<sup>th</sup> Ed. (2014) Florida Building Code, Building, Section 1405.4 Flashing
  - This Section states:  
Flashing shall be installed in such a manner so as to prevent moisture from entering the wall or to redirect it to the exterior. Flashing shall be installed at the perimeters

of exterior door and window assemblies, penetrations and terminations of *exterior wall* assemblies, *exterior wall* intersections with roofs, chimneys, porches, decks, balconies and similar projections and at built-in gutters and similar locations where moisture could enter the wall. Flashing with projecting flanges shall be installed on both sides and the ends of copings, under sills and continuously above projecting *trim*.

- Finding: the Deco-Flash product has an integrated projecting flange and is installed around the full perimeter of door or window openings, in a manner which prevents moisture from entering the wall, when properly incorporated with the drainage/water management/WRB of the overall wall construction (by others); therefore this product is in compliance with FBC Sect. 1405.4.
- 5<sup>th</sup> Ed. (2014) Florida Building Code, Residential, Section R703.8 Flashing
  - This Section states:

*Approved* corrosion-resistant flashing shall be applied shingle-fashion in a manner to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C 920 Class 25 Grade NS or greater for proper joint expansion and contraction, ASTM C 1281, AAMA 812, or other approved standard as appropriate for the type of sealant. The flashing shall extend to the surface of the exterior wall finish. *Approved* corrosion-resistant flashings shall be installed at all of the following locations:

    1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage. Flashing at exterior window and door openings shall be installed in accordance with one or more of the following:
      - 1.1. The fenestration manufacturer's installation and flashing instructions, or for applications not addressed in the fenestration manufacturer's instructions, in accordance with the flashing manufacturer's instructions. Where flashing instructions or details are not provided, pan flashing shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage. Openings using pan flashing shall also incorporate flashing or protection at the head and sides.
      - 1.2. In accordance with the flashing design or method of a registered design professional.
      - 1.3. In accordance with other approved methods.
      - 1.4 In accordance with FMA/AAMA 100, FMA/AAMA 200, FMA/WDMA 250, or FMA/AAMA/WDMA 300.

5/25/2016  
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- Finding: the Deco-Flash product is corrosion-resistant rigid PVC which extends to the surface of the wall finish, and in accordance with the flashing manufacturer's instructions shall be installed with head waterproof membrane shingle-fashion over the Deco-Flash flange, and using one of the approved sealant types/standards full perimeter to prevent entry of water when properly incorporated with the drainage/water management/WRB of the overall wall construction (by others); therefore this product is in compliance with FBC Sect. R703.8.

**Certification of Independence:** I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Deco-Flash or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

5/25/2016  
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# Deco-Flash Installation Instructions for New Frame Construction

Inspect each Deco-Flash unit carefully and DO NOT INSTALL if damaged or defective

FIGURE 1

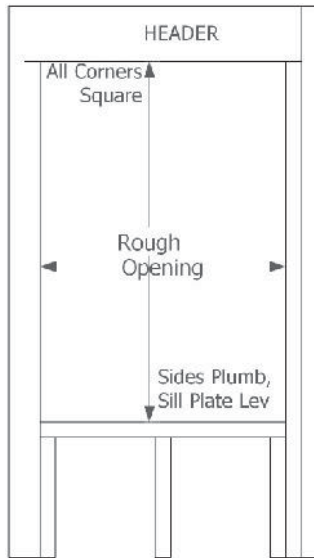
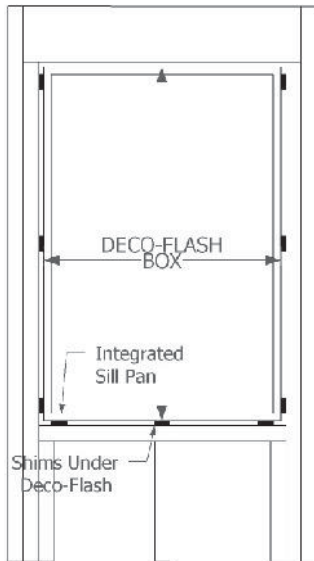


FIGURE 2: INTERIOR VIEW



## CAUTIONS

1. Verify that the window fasteners are setback as per ASTM E2112 and FMA/AAMA 100-07
2. Building wrap or other primary water plane must be attached over top of Deco-Flash nail fin
3. Do NOT modify the Deco-Flash unit without prior written approval from Deco-Flash

## Rough Opening

The rough opening must be plumb, level and square and 1-1/4 inches larger than the window frame size (1/2-inch larger than outside Deco-Flash box dimension) in width and height, not including flanges (see FIG. 1).

*Check that rough opening is clear of debris or nails from framing.*

## Setting Deco-Flash

Apply two continuous 3/8-inch minimum beads of a one part polyurathane caulking between the Deco-Flash box and the exterior sheathing. Apply the first caulk bead directly to the face of the sheathing around the cleaned rough opening 1 inch from the edge of the wall. Then apply a second continuous caulk bead to the back of the nail fin of the Deco-Flash box in line with the fasteners at 3/4-inch from the outside edge.

Center the Deco-Flash box inside of the rough opening, horizontally and vertically. Use an appropriate sized level, placed across the head of the box, to determine the Deco-Flash is plumb and level. To assure Deco-Flash is set square, be sure diagonal measurements are equal. Shim at the sill at a minimum of three points, in the middle and at either end (see FIG. 2). For openings larger than 36 inches, the sill should be supported at a maximum of every 12 inches. For multiple unit openings, shims should be placed at every mullion.

**NOTE:** Deco-Flash box must NOT be bowed or racked when set. Check that box is set correctly prior to fastening to wall.

## Fasntening Deco-Flash Nail Fin

Fasten Deco-Flash directly to exterior sheathing on a frame application. Use 1-1/4 inch roofing nails, corrosion resistant as specified in the International Building Code (IBC). Fasteners are to be spaced approximately 2 inches from each corner and at 8 inches on center around the perimeter of the unit. Fasteners should be tight to the fin, but do not draw all the way in, this allows for expansion and contraction. Nail fin must be tight against the sheathing, with visable push out of the sealant, to insure a complete air and water tight connection.

Once the unit is secure, a piece of 6 inch flashing tape is to be installed over the head nail fin, extending a minimum of 6 inches beyond the unit to the left and right (see FIG. 3).

Recommended nail gun is a neumatic roofing coil nail gun with 1-1/4 inch nails. It is the responsibility of the installer to verify compatibility with specific wall type and application.

## Installing Window Into Deco-Flash Opening

Window is to be fastened through the Deco-Flash box and into the studs as per the window manufacturers specifications.

**NOTE:** Window must be box frame to be compatible with Deco-Flash. Nail fin and flange windows are NOT compatible with Deco-Flash.

Apply the continuous calking to the back of the window frame and set the window against the back of the sill pan, then face caulk the front of the window frame per ASTM E2112 to the Deco-Flash (see FIG. 4). Fasteners used to secure window frame through the Deco-Flash must be smooth shank at the head to prevent grabbing and contouring of the Deco-Flash unit or the window frame. Fastners much achieve a 1-1/4 inch minimum embedment depth into the framing.

FIGURE 3: EXTERIOR VIEW

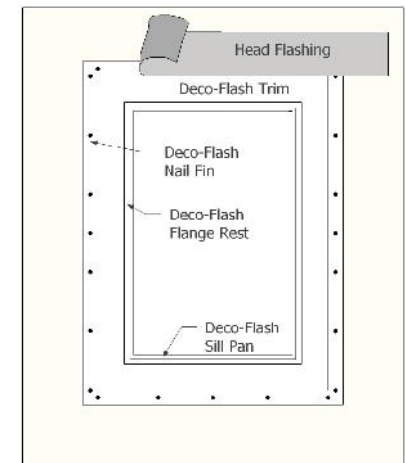
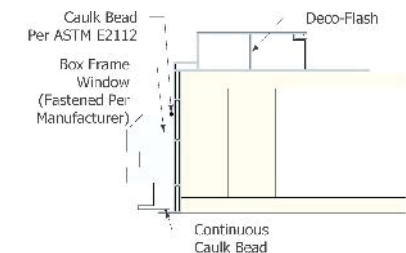


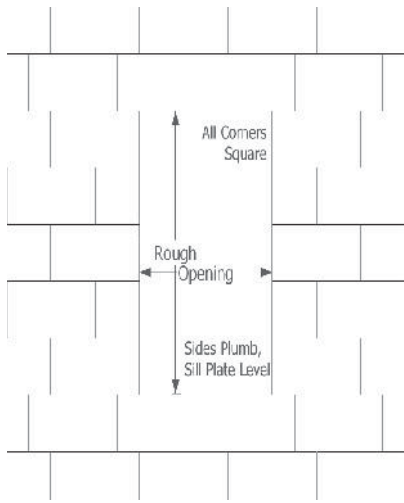
FIGURE 4



# Deco-Flash Installation Instructions for New Masonry Construction

Inspect each Deco-Flash unit carefully and DO NOT INSTALL if damaged or defective

FIGURE 1



## Rough Opening

The rough opening must be plumb, level and square and 1-1/4 inches larger than the window frame size (1/2-inch larger than outside Deco-Flash box dimension) in width and height, not including flanges (see FIG. 1). The rough opening is the same as the masonry opening block dimension as bucking is not required when using Deco-Flash, expect where a structural buck is required.

*Check that rough opening is clear of debris, excess cement from poured block.*

## Setting Deco-Flash

Apply two continuous 3/8-inch minimum beads of a one part polyurathane caulking between the Deco-Flash box and the exterior block face. Apply the first caulk bead directly to the face of the block around the cleaned rough opening 1 inch from the edge of the wall. Then apply a second continuous caulk bead to the back of the nail fin of the Deco-Flash box in line with the fasteners at 3/4-inch from the outside edge.

Center the Deco-Flash box inside of the rough opening, horizontally and vertically. Use an appropriate sized level, placed across the head of the box, to determine the Deco-Flash is plumb and level. To assure Deco-Flash is set square, be sure diagonal measurements are equal. Shim at the sill at a minimum of three points, in the middle and at either end (see FIG. 2). For openings larger than 36 inches, the sill should be supported at a maximum of every 12 inches. For multiple unit openings, shims should be placed at every mullion.

**NOTE:** Deco-Flash box must NOT be bowed or racked when set. Check that box is set correctly prior to fastening to wall.

## Fasntening Deco-Flash Nail Fin

Fasten Deco-Flash directly to the face of the exterior block. Use 1 inch nails, corrosion resistant as specified in the International Building Code (IBC). Fasteners are to be spaced approximately 2 inches from each corner and at 8 inches on center around the perimeter of the unit. Fasteners should be tight to the fin, but do not draw all the way in, this allows for expansion and contraction. Nail fin must be tight against the face of the block, with visable push out of the sealant, to insure a complete air and water tight connection.

Once the unit is secure, a roll on liquid waterproofing membrane must be applied over the head nail fin, extending a minimum of 6 inches beyond the unit to the left and right (see FIG. 3). Apply the membrane 6" wide and at a thickness specified by the manufacturer to provided an adequet seal.

Recommended nail gun is the Simpson GCN150KT Gas Actuated Concrete Nailer with 1 inch pins. It is the responsibility of the installer to verify compatibility with specific wall type and application.

## Installing Window Into Deco-Flash Opening

Window is to be fastened through the Deco-Flash box and into the block as per the window manufacturers specifications.

**NOTE:** Window must be box frame to be compatible with Deco-Flash. Nail fin and flange windows are NOT compatible with Deco-Flash.

Apply the continuous calking to the back of the window frame and set the window against the back of the sill pan, then face caulk the front of the window frame per ASTM E2112 to the Deco-Flash (see FIG. 4). Fasteners used to secure window frame through the Deco-Flash must be smooth shank at the head to prevent grabbing and contouring of the Deco-Flash unit or the window frame. Fasteners must achieve a 1-1/4 inch minimum embedment depth into the block.

FIGURE 3: EXTERIOR VIEW

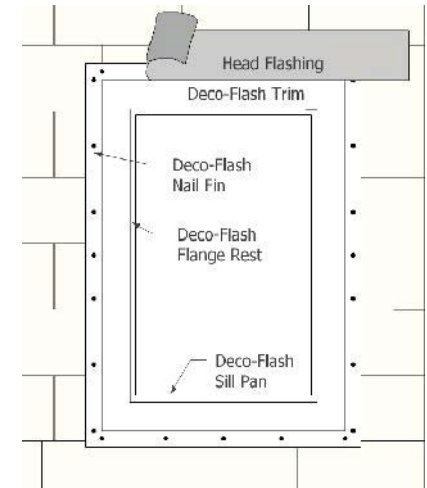
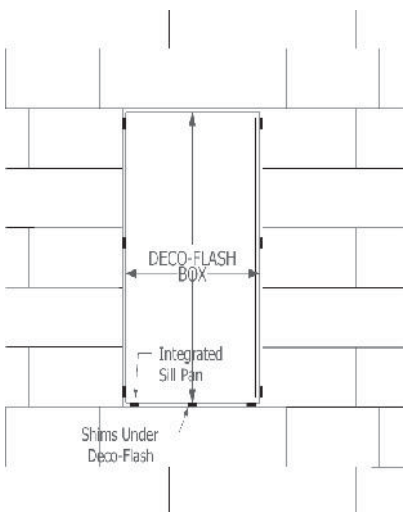


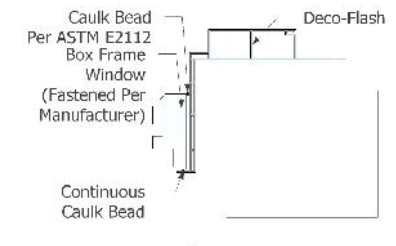
FIGURE 2: INTERIOR VIEW



## CAUTIONS

1. Verify that the window fasteners are setback as per ASTM E2112 and FMA/AAMA 100-07
2. Building wrap or other primary water plane must be attached over top of Deco-Flash nail fin
3. Do NOT modify the Deco-Flash unit without prior written approval from Deco-Flash

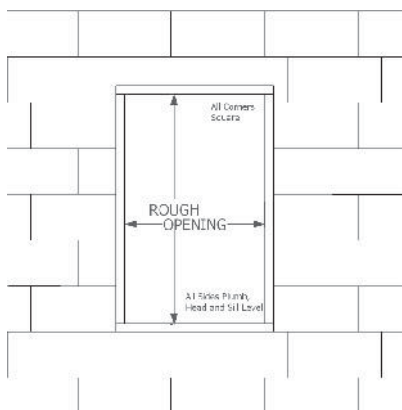
FIGURE 4



# Deco-Flash Installation Instructions for New ICF Construction

Inspect each Deco-Flash unit carefully and DO NOT INSTALL if damaged or defective

FIGURE 1



## Rough Opening

The rough opening must be plumb, level and square and 1-1/4 inches larger than the window frame size (1/2-inch larger than outside Deco-Flash box dimension) in width and height, not including flanges (see FIG. 1). The rough opening is measured from the inside of the PT form boards required in ICF construction. It is recommended to build the PT forms to the Deco-Flash box then build your openings around the unit.

*Check that rough opening is clear of debris, excess cement from poured block.*

## Setting Deco-Flash

Apply two continuous 3/8-inch minimum beads of a one part polyurathane caulking between the Deco-Flash box and the exterior foam block face. Apply the first caulk bead directly to the face of the foam around the cleaned rough opening 1 inch from the edge of the wall. Then apply a second continuous caulk bead to the back of the nail fin of the Deco-Flash box in line with the fasteners at 3/4-inch from the outside edge.

Center the Deco-Flash box inside of the rough opening, horizontally and vertically. Use an appropriate sized level, placed across the head of the box, to determine the Deco-Flash is plumb and level. To assure Deco-Flash is set square, be sure diagonal measurements are equal. Shim at the sill at a minimum of three points, in the middle and at either end (see FIG. 2). For openings larger than 36 inches, the sill should be supported at a maximum of every 12 inches. For multiple unit openings, shims should be placed at every mullion.

**NOTE:** Deco-Flash box must NOT be bowed or racked when set. Check that box is set correctly prior to fastening to wall.

## CAUTIONS

1. Verify that the window fasteners are setback as per ASTM E2112 and FMA/AAMA 100-07
2. Building wrap or other primary water plane must be attached over top of Deco-Flash nail fin
3. Do NOT modify the Deco-Flash unit without prior written approval from Deco-Flash

## Fastening Deco-Flash Nail Fin

Fasten Deco-Flash directly to the face of the exterior foam block. Use 1-1/4 inch lath screws, corrosion resistant as specified in the International Building Code (IBC). Fasteners are to be spaced approximately 2 inches from each corner and at 8 inches on center around the perimeter of the unit. Fasteners should be tight to the fin, but do not draw all the way in, this allows for expansion and contraction. Nail fin must be tight against the face of the foam block, with visible push out of the sealant, to insure a complete air and water tight connection.

Once the unit is secure, a roll on liquid waterproofing membrane must be applied over the head nail fin, extending a minimum of 6 inches beyond the unit to the left and right (see FIG. 3). Apply the membrane 6" wide and at a thickness specified by the manufacturer to provided an adequate seal.

It is the responsibility of the installer to verify compatibility of the fasteners with specific wall type and application.

## Installing Window Into Deco-Flash Opening

Window is to be fastened through the Deco-Flash box and into the foam block as per the window manufacturers specifications.

**NOTE:** Window must be box frame to be compatible with Deco-Flash. Nail fin and flange windows are NOT compatible with Deco-Flash.

Apply the continuous caulking to the back of the window frame and set the window against the back of the sill pan, then face caulk the front of the window frame per ASTM E2112 to the Deco-Flash (see FIG. 4). Fasteners used to secure window frame through the Deco-Flash must be smooth shank at the head to prevent grabbing and contouring of the Deco-Flash unit or the window frame. Fasteners must achieve a 1-1/4 inch minimum embedment depth into the block.

FIGURE 3: EXTERIOR VIEW

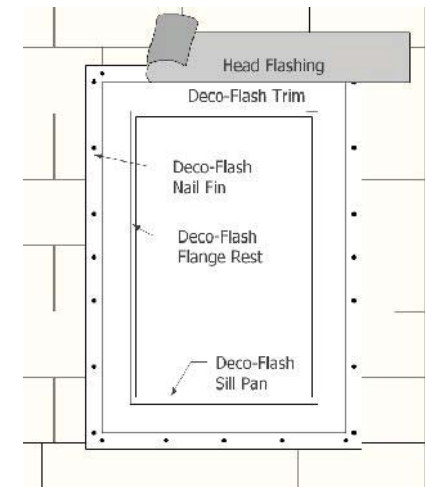


FIGURE 2: INTERIOR VIEW

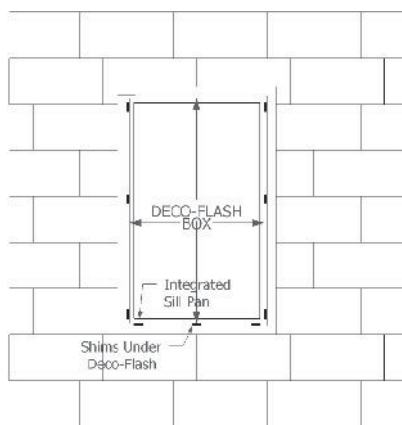


FIGURE 4

