

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

DR-569

Effective Date: October 1, 2012
Reevaluation Date: **September 2014**

The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

E3 Hurricane Outward Opening Bi-Fold Doors, Impact Resistant, manufactured by

Coastal Innovative Products
aka Lanai Doors
941 North Elm Street, Suite C
Orange, CA 92867
Telephone: (714) 744-6020

General Description:

System	Description	Label Rating
1	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors; XXXXXX	Design Pressure: ± 55 psf with water infiltration (standard sill only) Maximum Size Tested: 220.16" x 99.94"; ASTM E330; ASTM E 1886-05, ASTM E 1996-05; Missile Level D
2	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors; XXXXXX	Design Pressure: ± 55 psf with water infiltration (standard sill only) Maximum Size Tested: 220.16" x 99.94"; ASTM E330; ASTM E 1886-05, ASTM E 1996-05; Missile Level C

General Description (cont.):

System	Description	Label Rating
3	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors; XXXXXX	Design Pressure: ±70 psf without water infiltration (standard, flush, and low rise sill) Maximum Size Tested: 220.16" x 99.94"; ASTM E330; ASTM E 1886-05, ASTM E 1996-05; Missile Level D
4	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors; XXXXXX	Design Pressure: ±70 psf without water infiltration (standard, flush, and low rise sill) Maximum Size Tested: 220.16" x 99.94"; ASTM E330; ASTM E 1886-05, ASTM E 1996-05; Missile Level C

Component Dimensions:

System	Overall Door Size	Maximum Panel Size	Maximum Panel Daylight Opening Size
1-4	220.16" x 99.94"	36" x 96"	30" x 88.75"

Components and Hardware:

System	Components and Hardware
1-4	The glass panels, hardware and components shall be installed in accordance with Coastal Innovative Products Lanai Series E3 Hurricane Outward Opening Bi-Fold Door drawings CIP003, sheets 1 – 11 of 11, dated November 7, 2011, signed and sealed by Alexis Spyrou on July 24, 2012.

Product Identification (Certification Agency Label on Door):

System		
1&3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Coastal Innovative Products aka Lanai Doors
	Product Name	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors
	Test Standards	ASTM E330-02; ASTM E 1886-05, ASTM E 1996-05; Missile Level D
2&4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Coastal Innovative Products aka Lanai Doors
	Product Name	E3 Hurricane Outward Opening Aluminum Bi-Fold Doors
	Test Standards	ASTM E330-02; ASTM E 1886-05, ASTM E 1996-05; Missile Level C

Impact Resistance:

System	Impact Resistant	Requirement
1&3	Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.
2&4	Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I zone . The assemblies may be installed at any height on the structure located in the Inland I zone as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System		
1-4	Type of Installation	Door Frame
	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 2,700 psi); Masonry (ASTM C-90) and Steel (minimum yield strength of 33 ksi)
	Fasteners	Wood: No. 14 wood screw; Concrete and Masonry: 1/4" diameter ITW Tapcon; Steel: 1/4" - 14 Tek screw
	Fastener Embedment	Wood: Minimum of 2 inches into the wall framing; Concrete and Masonry: Minimum of 1 1/2 inches into the wall framing; and Steel: Achieve three (3) threads penetration beyond the metal structure.
	Fastener Location/Spacing	The doors shall be installed in strict accordance with this product evaluation report and Coastal Innovative Products Lanai Series E3 Hurricane Outward Opening Bi-Fold Door drawings CIP003, sheets 1 – 11 of 11, dated November 7, 2011, signed and sealed by Alexis Spyrou on July 24, 2012.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.