

ENGINEER’S PRODUCT EVALUATION REPORT
FLORIDA BUILDING CODE COMPLIANCE (HVHZ)

Product Category	Exterior Doors	
Product Name	Series 4500 Vinyl Tilt-Slide Door	
Design Pressure	+80 psf, -80 psf	
Impact Resistance	Large Missile Impact Resistant	
Product Manufacturer	Eurostyle Impact Windows and Doors, LLC. 217 NW 4 th Ave., Hallandale Beach, FL 33009	
Report No.	ESWD4500TSD-Eval	Rev No: 2
Report Date	05/07/2013	Rev Date: 03/14/2016
Code Reference	Florida Building Code, Including HVHZ (Current Edition)	
Evaluating Engineer	Emma T. Mellinger, P.E. Category 5 Engineering Services, Inc.	

SCOPE OF EVALUATION AND STATEMENT OF CODE COMPLIANCE

This Product Evaluation Report is issued in accordance with the requirements of Florida Statutes 61G20-3 for Optional Statewide Product Approval. The above-referenced product has been tested and evaluated as described herein, and found to be **in compliance with the current edition of the Florida Building Code, including HVHZ**. The above-referenced product is, for the purpose intended, at least equivalent to that required by the Code.

PRODUCT DESCRIPTION

Product is a vinyl tilt-slide door made from rigid PVC with steel reinforcements and thermally welded frame corners. Sash members have weldable corner block inserts. Units are dry-glazed with an EPDM gasket, and have a 1.00” overall thickness double (i.e. insulating) lite consisting of (from interior to exterior): 0.1875” clear tempered glass, a 0.348” airspace created by an aluminum spacer, and a laminated lite consisting of 0.1875” clear annealed glass/0.090” DuPont SGP interlayer/0.1875” clear annealed glass. The moveable panel slides to the interior. Product is shown in detail in the Approval and Installation Drawing “ESWD4500TSD-Install.” The fixed portion of the assembly may be either direct-set, or sash-set to match the sliding portion.

SUBSTANTIATING DATA

The following documents substantiate the evaluation contained in this report:

- **Notice of Product Certification** (National Accreditation and Management Institute Certification No. NI011504)
- **Test Reports** (Architectural Testing, Inc. Report No. C2187.01-301-18, for tests TAS 201, 202, 203).
- **Anchor Calculations** (technical report “ESWD4500TSD-Anchors,” prepared, signed and sealed by Emma T. Mellinger, P.E.)

- **Approval and Installation Drawing** (drawing “ESWD4500TSD-Install” prepared, signed and sealed by Emma T. Mellinger, P.E.)
- **Glass Load Analysis per ASTM E1300** (technical report “ESWD4500TSD-Glass,” prepared, signed and sealed by Emma T Mellinger, P.E.)
- **Plastics Certification** (Current Miami-Dade County NOA for Vinyl Extrusions manufactured by Rehau, LLC; current Miami-Dade County NOA for SGP Glazing Laminate manufactured by E.I. DuPont De Nemours & Co.; and Architectural Testing Inc., laboratory test report no. B1348.01-106-31 showing compliance with ASTM C864 for EPDM glazing gasket)

INSTALLATION

- Product shall be installed in accordance with the Approval and Installation Drawing “ESWD4500TSD-Install” prepared, signed and sealed by Emma T Mellinger, P.E.

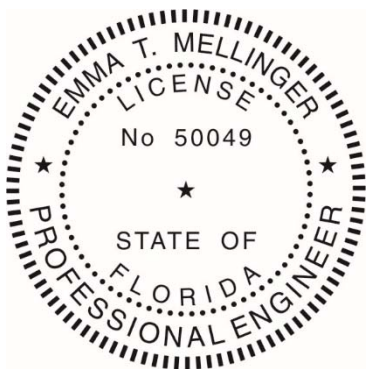
LIMITATIONS AND CONDITIONS OF USE

Use of the above-referenced product shall be in strict accordance with this Evaluation Report and the Approval and Installation Drawing “ESWD4500TSD-Install.” For all other conditions, a site specific design shall be prepared by a Florida-registered Professional Engineer.

- Product meets requirements for the High Velocity Hurricane Zone (HVHZ).
- Product shall be glazed in accordance with ASTM E1300.
- Maximum Tested Frame Size: 96” x 96”
- Maximum Glass Size: 43.5” x 90.25” (Direct-Set)
- Maximum Glass Size: 36.5” x 83.5” (Sash-Set)
- Maximum Design Pressures: +80 psf, -80 psf
- Product is rated Large Missile Impact Resistant (HVHZ, Wind Zone 4, Missile Level D).

ENGINEER’S STATEMENT OF FINANCIAL INDEPENDENCE

This statement certifies that Emma T. Mellinger, P.E. does not have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Emma T. Mellinger, P.E. does not have nor will acquire a financial interest in any other entity involved in the approval process of the referenced product(s).



Emma T. Mellinger, P.E.
 PE 50049
 03/14/2014