



WALTER A. TILLIT, JR., P.E.

PRODUCT EVALUATION REPORT

tilteco@aol.com
FL P.E. License No. 44167
FL C.A. License No. 0006719

REPORT No.: 23-1124.01

DATE: November 24, 2023

PRODUCT CATEGORY: Exterior Doors

PRODUCT SUB-CATEGORY: Swinging Exterior Door Assemblies

PRODUCT NAME: SERIES FD-240 ALUMINUM OUTSWING
FRENCH DOOR WITH TRANSOM OR WITH
SIDELITES

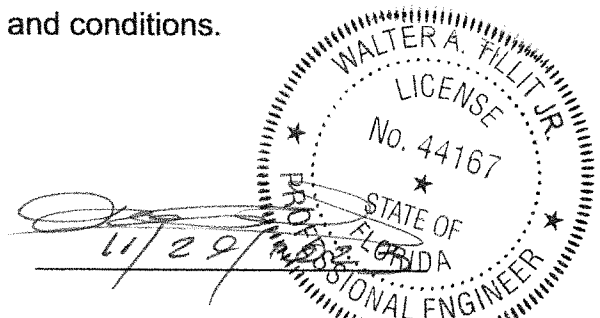
MANUFACTURER: EMPIRE WINDOWS INDUSTRY, INC
6508 N.W. 77 CT
Miami, FL 33166

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **Empire Windows Industry, Inc** based on **Rule Chapter No. 61G20-3, Method 1D of the Florida Department of Business and Professional Regulation.**

This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

This Product Evaluation Report shall be subject to review and revision in case of a Building Code Change that may affect its limitations and conditions.



2. EVIDENCE SUBMITTED:

2.1. PRODUCT EVALUATION DOCUMENT (P.E.D.):

Drawing No. 23-239, titled "**SERIES FD-240 ALUMINUM OUTSWING FRENCH DOOR WITH TRANSOM OR WITH SIDELITES**" sheets 1 thru 24 of 24 prepared by **Tilteco, Inc.**; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated **11/22/2023**. This drawing is an integral part of this Evaluation Report.

2.2. TEST REPORTS:

Impact and Cyclic Tests as per protocol TAS-201 and TAS-203, and Uniform Static Load as per Protocol TAS 202 per sections 1626 and 1609.1.2 of the Florida Building Code.

Test Reports prepared by Fenestration Testing Laboratory Report #8131 signed and sealed by Ms. Dalmis Ortega, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On "**SERIES FD-240 ALUMINUM OUTSWING FRENCH DOOR WITH TRANSOM OR WITH SIDELITES**" for Maximum Pressure Rating vs. Maximum anchor spacing, maximum Door's Sidelite Panel and Transom Panel width and height, and Maximum Glass Size, based on rational and comparative analysis, and in accordance with sections 1604 and 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 11/22/2023, signed and sealed by Walter A. Tillit, Jr., P.E.

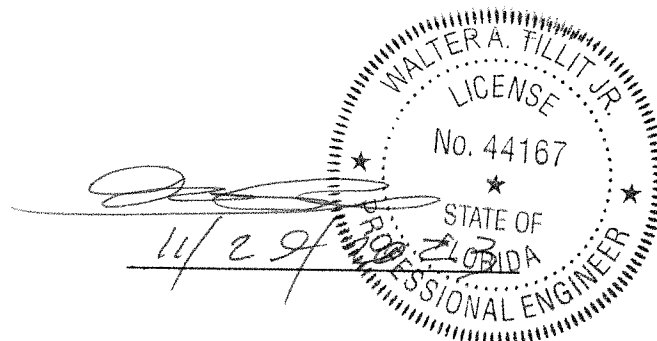
3. MISSILE IMPACT RESISTANCE:

Large Missile Impact resistance is provided per TAS 201 (9 lbs., 50 feet/sec, Large Missile)

4. WIND LOADS RESISTANCE:

"**SERIES FD-240 ALUMINUM OUTSWING FRENCH DOOR WITH TRANSOM OR WITH SIDELITES**" has been verified to sustain wind pressures. Maximum Glass Panel Dimensions, maximum Door Sidelite Panel and Transom Panel width and heights shall be as indicated on sheet 21 of Product Evaluation Document (P.E.D.), Drawing No. **23-239**.

Maximum Design Pressure Rating for Door, Sidelite Panel and Transom Panel and their connections for applicable substrates shall be as indicated on sheets 21 and 22, of Product Evaluation Document (P.E.D.), Drawing No. **23-239**.



5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes 1,4, 5, 8, 10, 11, 12, 13 and 14, indicated on sheet 1, and details indicated on sheets 5 thru 20 and 23, 24 of Product Evaluation Document (P.E.D.), drawing No. **23-239**.

Gaskets and setting blocks used at installations comply with section 2411.3.4 of the Florida Building Code as specified on Bill of Materials (components 24, 25, 34) on Sheet 3 of Product Evaluation Document (P.E.D.), drawing No. **23-239**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1 thru 4 of Product Evaluation Document (P.E.D.), Drawing No. **23-239**.

Anchor specifications shall be as indicated on sheet 1, of Product Evaluation Document (P.E.D.), Drawing No. **23-239**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 thru 5, indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-239** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

7.2. Product **may** be installed within HIGH VELOCITY HURRICANE ZONES as defined on section 202 of the Florida Building Code and out of it.

7.3. Product shall only be installed into poured concrete, concrete block, Aluminum, Steel and wood structures with limitations indicated on sheet 1, note 9 and sheet 21 of Product Evaluation Document (P.E.D.), Drawing No. **23-239**..

Product Evaluation Report prepared by Walter A. Tillit, Jr., P.E. (Florida License No. 44167), President of Tilteco, Inc. (Florida CA-0006719).

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