

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.:** 23-0817.04

**DATE:** August 17, 2023

**PRODUCT CATEGORY:** Exteriors Doors

**PRODUCT SUB-CATEGORY:** Swinging Exterior Door Assemblies

**PRODUCT NAME:** DOUBLE & SINGLE COMMERCIAL OUTSWING OR INSWING GALVANNEAL OR STAINLESS-STEEL DOOR SYSTEMS, FLUSH, EMBOSSED WITH VISION LITE OR LOUVER KITS, AND WITH SIDELITES AND TANSOMS WITH DIFFERENT INFILLS.

**SUBMITTED BY:** Daybar Industries LTD  
50 West Drive, Brampton,  
On Canada, L6T 2J4

### **1. PURPOSE OF EVALUATION:**

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

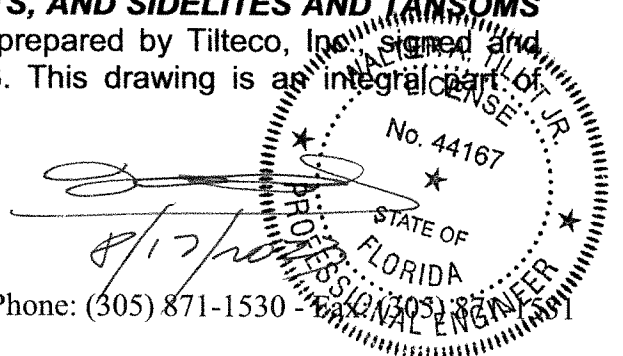
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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 23-177, titled "**DOUBLE & SINGLE COMMERCIAL OUTSWING OR INSWING GALVANNEAL OR STAINLESS-STEEL DOOR SYSTEMS, FLUSH, EMBOSSED WITH VISION LITE OR LOUVER KITS, AND SIDELITES AND TANSOMS WITH DIFFERENT INFILLS**", sheets 1 thru 12 prepared by Tilteco, Inc. signed and sealed by Walter A. Tillit Jr., ; dated 8/17/2023. This drawing is an integral part of this Evaluation Report.



## **2.2. TEST REPORTS:**

Large missile impact and cyclic loading under Florida TAS 201 and 203 Protocols, as per section 1626 and 1609.1.2 of the Florida Building Code. Uniform Static loads in accordance with Protocol TAS 202. Test reports prepared by Certified Testing Laboratories Report No. **CTLA 1992 W** signed and sealed by Ramesh C. Patel, P.E. Tensile Test Report No. **0417T** by Certified Testing Laboratories signed and sealed by Ramesh C. Patel, P.E.

## **2.3. STRUCTURAL ENGINEERING CALCULATIONS:**

On Exterior Door with sidelites and transom for maximum anchor spacing vs. design wind load and door span based on rational and comparative analysis, as well as on glass adequacy and in accordance with section **1616 and 1604** of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 04/14/15, signed and sealed by Walter A. Tillit, Jr., P.E. Glass has been verified per ASTM E-1300-9a, per Section 2404.1 of Florida Building Code.

## **3. MISSILE IMPACT RESISTANCE:**

Large missile impact under section 1626 of the Florida Building Code, as per Protocol TAS 201, (2" x 4", 50 ft. /sec).

## **4. WIND LOADS RESISTANCE:**

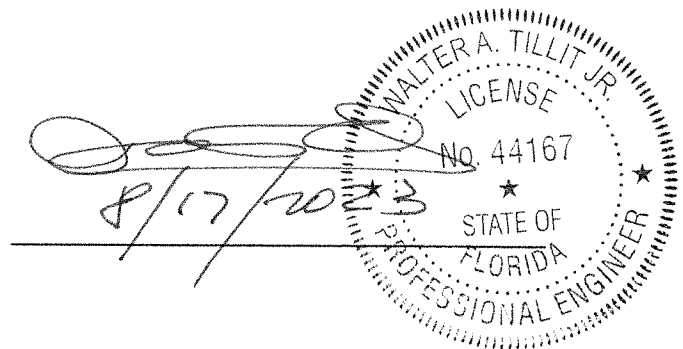
Exterior Door with sidelites and transom has been verified to sustain wind pressures. Maximum Door sidelites and transom Dimensions and ASD Design Pressures rating shall be as indicated on sheet 2 of Product Evaluation Document (P.E.D.), drawing No. 23-177 Maximum Anchor Spacing shall be as indicated on sheet 2 of Product Evaluation Document (P.E.D.), drawing 23-177

## **5. INSTALLATION:**

Shall be performed strictly in accordance with the details indicated on sheets 2, 5 thru 12 of Product Evaluation Document (P.E.D.), drawing No. **23-177**

## **6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:**

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 3 and 4 of Product Evaluation Document (P.E.D.), drawing No. **23-177** Anchor specifications shall be as indicated on sheet 12 of Product Evaluation Document (P.E.D.), drawing No. **23-177**



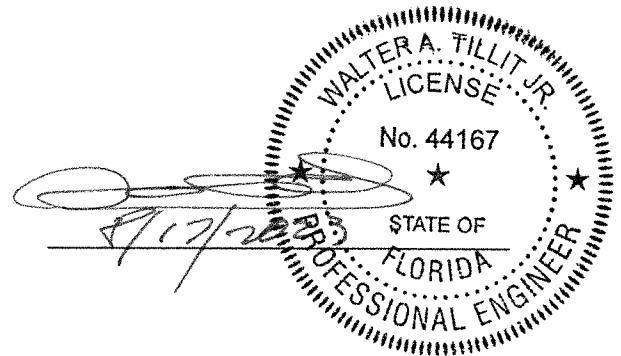
## **7. LIMITATIONS AND CONDITIONS OF USE:**

7.1. Shall be strictly in compliance with General Notes No. 1, 3, 8, 9 and 12 thru 16, indicated on sheet 1, of Product Evaluation Document (P.E.D.), drawing No. **23-177** 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, or outside of HIGH VELOCITY HURRICANE ZONES.

7.3. Product shall only be installed into poured concrete, grouted concrete block, wood and steel frame structures, as limited and defined on Product Evaluation Document No. **23-177**.

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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D:\ TILTECO ADMIN RECORDS \ P. E. REPORT.23 \ DAYBAR INDUSTRIES LTD \ SER. OUTSWING/INSWING GALVANNEAL/STAINLESS-STEEL DR SYS, FLUSH, EMBOSSED W/ VISION LITE/LOUVER KITS, & W/ SIDELITES & TANSOMS W/ DIFF INFILLS \ DRWG # 23-177\ RPT # 23-0817.04