



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

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PRODUCT EVALUATION REPORT

REPORT NO.: 23-0817.09

DATE: AUGUST 17, 2023

PRODUCT CATEGORY: Exteriors Doors

PRODUCT SUB-CATEGORY: Swinging Exterior Door Assemblies

PRODUCT NAME: **SERIES LS20GA FLUSH COMMERCIAL
STEEL OUTSWING DOOR WITH SERIES
"AS" 18 GAGE STEEL FRAME**

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.**

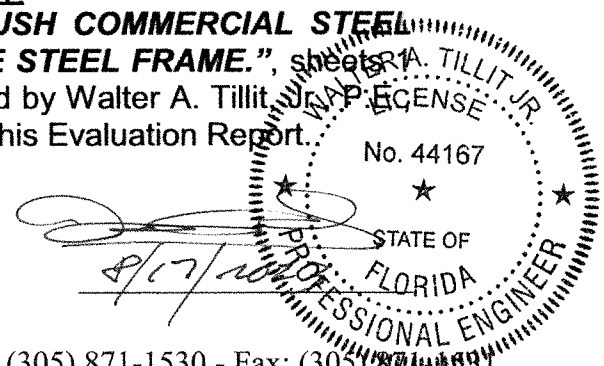
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2023 8th Edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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 **23-182**, titled **"SERIES LS20GA FLUSH COMMERCIAL STEEL OUTSWING DOOR WITH SERIES "AS" 18 GAGE STEEL FRAME."**, sheets 1 thru 14, prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E. 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 and Protocol TAS 202. Test reports prepared by Fenestration Testing Lab, Report No. **8974**, signed and sealed by Idalmis Ortega, P.E., dated 09/30/2016.

Tensile Test Report No. **9135** by Fenestration Testing Lab., dated 09/30/2016 signed and sealed by Idalmis Ortega.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Exterior Door for maximum anchor spacing vs. design wind load and door dimensions based on rational and comparative analysis, and in accordance with section **1616 and 1604** of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 10/10/2016, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

Large missile impact under section 1626 and 1609.1.2 of the Florida Building Code, as per Protocol TAS 201.(2" x 4", 50 ft/sec)

4. WIND LOADS RESISTANCE:

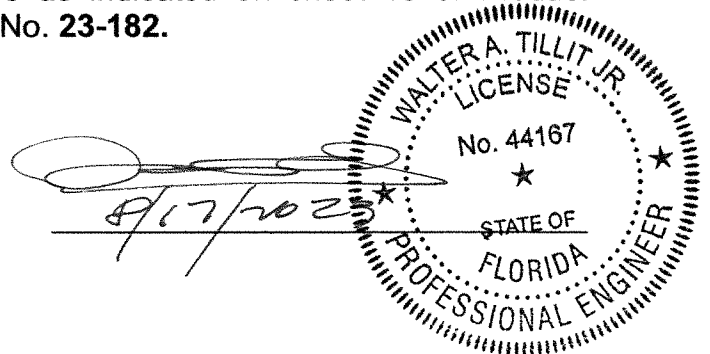
Exterior Door has been verified to sustain wind pressures. Maximum Door Dimensions and ASD Design Pressure rating shall be as indicated on sheets 2, of Product Evaluation Document (P.E.D.), drawing No. **23-182**. Maximum Anchor Spacing shall be as indicated on sheet 3 of Product Evaluation Document (P.E.D.), drawing No. **23-182**.

5. INSTALLATION:

Shall be performed strictly in accordance with the details indicated on sheets 2 through 4 and 9 through 14 of Product Evaluation Document (P.E.D.), drawing No. **23-182**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 5 and 6 through 9 of Product Evaluation Document (P.E.D.), drawing No. **23-182**. Anchor specifications shall be as indicated on sheet 13 of Product Evaluation Document (P.E.D.), drawing No. **23-182**.



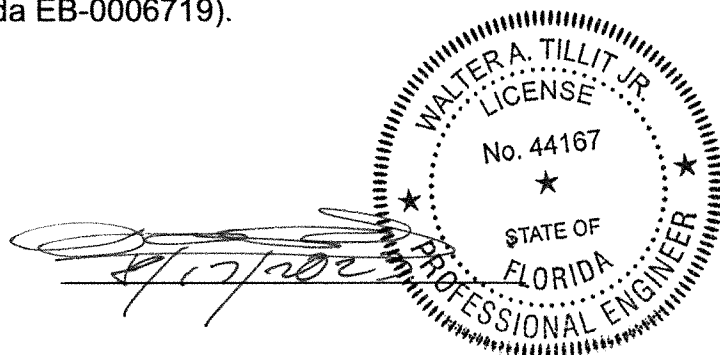
7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 and 7 through 14, indicated on sheet 1 of Product Evaluation Document (P.E.D.), drawing No. **23-182** 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, hollow concrete block, wood and metal structures, as limited and defined on Product Evaluation Document No. **23-182**, sheet 13.

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



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COMMERCIAL STEEL OUTSWING DOOR WITH SERIES "AS"18 GAGE STEEL FRAME \ DRWG # 23-182 \ REPORT #
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