



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

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

PRODUCT EVALUATION REPORT

REPORT No.: 22-0311.01

DATE: March 11, 2022

PRODUCT CATEGORY: Windows

PRODUCT SUB-CATEGORY: Storefront

PRODUCT NAME: HIGH IMPACT GREEN WORLD FIXED
GLASS WALL SERIES 12000 LARGE
MISSILE LAMINATED AND INSULATED
GLASS

MANUFACTURER: GENERAL IMPACT GLASS & WINDOWS
290 West 78th Road
Hialeah, FL 33014

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **General Impact GLASS & WINDOWS**, 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 2020 Seventh 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. 21-118, titled "HIGH IMPACT GREEN WORLD FIXED GLASS WALL SERIES 12000 LARGE MISSILE LAMINATED AND INSULATED GLASS" sheets 1 thru 51 (includes 5A, 31A, 32A, 44A) prepared by Tilteco, Inc.; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated **08/26/2021**. This drawing is an integral part of this Evaluation Report.

2.2. TEST REPORTS:

Impact and Cyclic Tests as per protocol TAS-201, TAS-203, Uniform Static Load as per Protocol TAS 202 and AAMA 501 per sections 1626, 1609.1.2 and 2411.3.2.1.1, respectively of the Florida Building Code.

Test reports prepared by Fenestration Testing Lab Inc., Reports No.6179 & 12604, signed and sealed by Jorge A. Causo, P.E. & Idalmis Ortega, P.E.; respectively.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On "High Impact Green world fixed Glass Wall Series 12000 large Missile Laminated and Insulated Glass" for Maximum Pressure Rating vs. Maximum anchor spacing, maximum Mullion and Horizontal Span, and Maximum Glass Size, based on rational and comparative analysis, in accordance with sections 1604 and 1616 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 05/07/2010, and 08/25/2017, 8/16/2021 and 02/28/2022, signed and sealed by Walter A. Tillit, Jr., P.E.

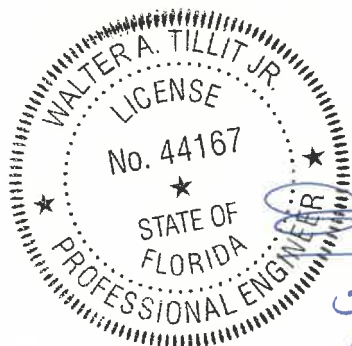
3. MISSILE IMPACT RESISTANCE:

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

4. WIND LOADS RESISTANCE:

Series "High Impact Green world fixed Glass Wall Series 12000 Large Missile Laminated and Insulated Glass" has been verified to sustain wind pressures. Maximum Glass Panel Dimensions, Mullions Spans, & Horizontal Spans shall be as indicated on schedules on Product Evaluation Document (P.E.D.), Drawing No. 21-118.

Maximum Design Pressure Rating for Mullions Head/Sill connections and Jamb Connection Maximum Fasteners Spacing for applicable substrates shall be as indicated on schedules on Product Evaluation Document (P.E.D.), Drawing No. 21-118.



5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes # 1 thru 15, indicated on sheet 1 and details indicated on of Product Evaluation Document (P.E.D.), drawing No. **21-118**.

Gaskets and setting blocks used at installations comply with section 2411.3.4 of the Florida Building Code as specified on Bill of Materials Product Evaluation Document (P.E.D.), drawing No. **21-118**.

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on of Product Evaluation Document (P.E.D.), **Drawing No. 20-271**.

Anchor specifications shall be as indicated on Product Evaluation Document (P.E.D.), Drawing No. **21-118**.

7. LIMITATIONS AND CONDITIONS OF USE:

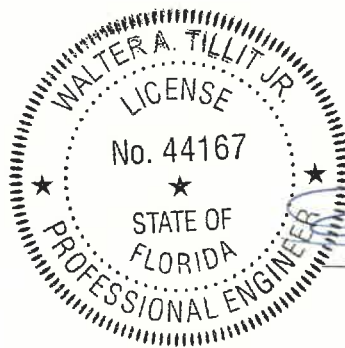
7.1. Shall be strictly in compliance with General Notes No. 1 thru 6, indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **21-118** prepared by Tilteco, Inc. and signed and sealed by Walter A. Tillit, Jr., P.E.

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

7.3. Product shall only be installed into substrates with limitations as indicated on Product Evaluation Document (P.E.D.), Drawing No. **21-118**.

7.4. Max design pressure ratings shall be as per schedules on Product Evaluation Document (P.E.D.) Drawing **No 21-118**.

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



A handwritten signature in blue ink, appearing to read "Walter A. Tillit, Jr.", written over a horizontal line. Below the signature, the date "3/11/2022" is handwritten in blue ink.

WAT\ma

D:\TILTECO ADMON RECORDS\ P. E. REPORT.22\ GENERAL IMPACT GLASS & WINDOWS\ HIGH IMPACT GREEN WORLD FIXED GLASS WALL SERIES 12000 LARGE MISSILE LAMINATED AND INSULATED GLASS\ DRWG # 21-118\ REPORT # 22-0311.01