



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

PRODUCT EVALUATION REPORT

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

REPORT NO.: 11-1208.02

DATE: December 8, 2011

PRODUCT CATEGORY: Window

PRODUCT SUB-CATEGORY: Storefront

PRODUCT NAME: Series FG-3000 Storefront
High Design Pressure
w/ Non Impact Insulated Monolithic Tempered Glass

MANUFACTURER: Oldcastle BuildingEnvelope™
803 Airport RD. Terrell, TX 75160

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **Oldcastle BuildingEnvelope™**, manufacturer, based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

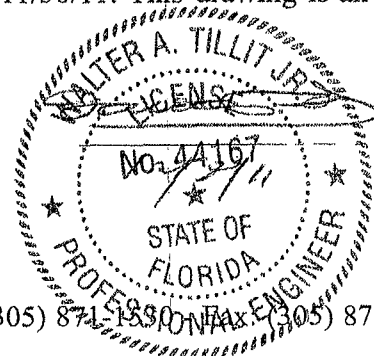
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 11-199, titled "Series FG-3000 Storefront High Design Pressure w/ Non Impact Insulated Monolithic Tempered Glass" sheets 1 thru 10 of 10 prepared by Tilteco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 11/30/11. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Uniform Static Loads as per protocol TAS-202 and ASTM E330, per Sections 1625 (except 1625.4) and 1715.5.3 of the Florida Building Code.

Test reports prepared by Architectural Testing, Inc. Lab, Report No. 99495.01-801-44, dated 08/09/10, signed and sealed by Joseph A. Reed, P.E., Director – Engineering and Product Testing.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Series FG-3000 Storefront High Design Pressure w/ Non Impact Insulated Monolithic Tempered Glass for Maximum Pressure Rating vs. Maximum anchor spacing, maximum Mullion and Horizontal Span, and Maximum Glass Size, based on rational and comparative analysis, and in accordance with sections 1604 and 1612 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 3/9/10, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

No impact resistance is provided. See limitations and conditions of use on item 7, page 3 of this Evaluation Report.

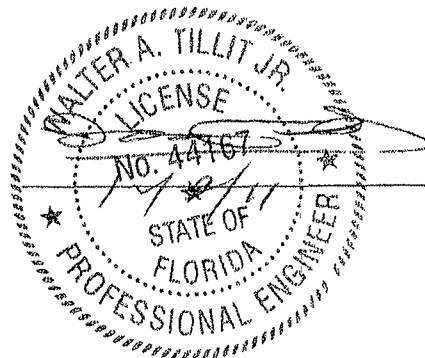
4. WIND LOADS RESISTANCE:

Series FG-3000 Storefront High Design Pressure w/ Non Impact Insulated Monolithic Tempered Glass has been verified to sustain wind pressures. Maximum Glass Panel Dimensions, Mullions Spans, & Horizontal Spans shall be as indicated on sheets 3, 5 and 7 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

Maximum Design Pressure Rating for Mullions Head/Sill connections and Jamb Connection Maximum Fasteners Spacing for applicable substrates shall be as indicated on sheets 6 and 10 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes # 6, 7, 9 & 11, indicated on sheet 1 of 10 and details indicated on sheets 6, 8 thru 10 of 10, of Product Evaluation Document (P.E.D.), drawing No.11-199. 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 1 & 2) on sheet 3, drawing No.11-199.



6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2 & 3 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

Anchor specifications shall be as indicated on sheets 6 and 10 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

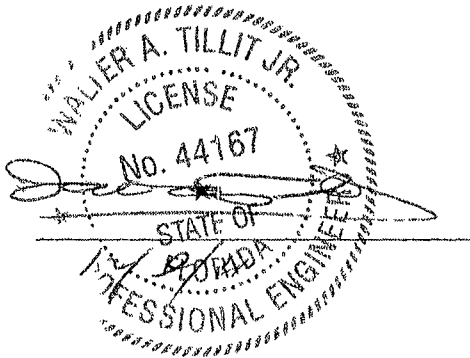
7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 thru 5, indicated on sheet 1 of 10 of Product Evaluation Document (P.E.D.), Drawing No. 11-199 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 1620.2 of the Florida Building Code and within NON HIGH VELOCITY HURRICANE ZONES w/ limitations as per General Note 3, sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

7.3. Product shall only be installed into poured concrete, concrete block, metal (steel) and wood structures with limitations indicated on sheets 6 and 10 of 10 of Product Evaluation Document (P.E.D.), Drawing No. 11-199.

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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PRODUCT EVALUATION REPORT

REPORT No.: 11-1205.05

DATE: December 5, 2011

PRODUCT CATEGORY: Window

PRODUCT SUB-CATEGORY: Storefront

PRODUCT NAME: Series FG-2000 Storefront
High Design Pressure
W/ Non Impact Monolithic Tempered Glass

MANUFACTURER: Oldcastle BuildingEnvelope™
803 Airport RD. Terrell, TX 75160

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **Oldcastle BuildingEnvelope™**, manufacturer, based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

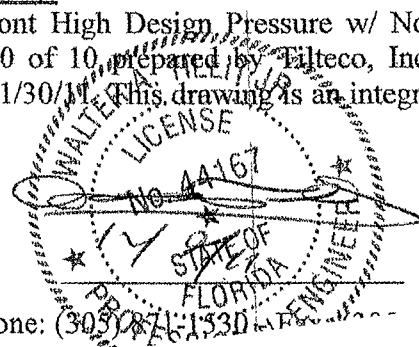
This product is being issued an Evaluation Report as described herein, and has been verified for compliance in accordance with the 2010 edition of the Florida Building Code, and to verify that the product is for the purpose intended at least equivalent to that required by the Code.

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. 11-198, titled "Series FG-2000 Storefront High Design Pressure w/ Non Impact Monolithic Tempered Glass" sheets 1 thru 10 of 10, prepared by Tiltco, Inc.; signed and sealed by Walter A. Tillit, Jr., P.E.; dated 11/30/11. This drawing is an integral part of this Evaluation Report.



2.2. TEST REPORTS:

Uniform Static Loads as per protocol TAS-202 and ASTM E330, per Sections 1625 (except 1625.4) and 1715.5.3 of the Florida Building Code.

Test reports prepared by Architectural Testing, Inc. Lab, Report No. 99493.01-801-44, dated 08/10/10, signed and sealed by Joseph A. Reed, P.E., Director – Engineering and Product Testing.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On Series FG-2000 Storefront High Design Pressure w/ Non Impact Monolithic Tempered Glass for Maximum Pressure Rating vs. Maximum anchor spacing, maximum Mullion and Horizontal Span, and Maximum Glass Size, based on rational and comparative analysis, and in accordance with sections 1604 and 1612 of the Florida Building Code. Calculations prepared by Tilteco, Inc., dated 3/9/10, signed and sealed by Walter A. Tillit, Jr., P.E.

3. MISSILE IMPACT RESISTANCE:

No impact resistance is provided. See limitations and conditions of use on item 7, page 3 of this Evaluation Report.

4. WIND LOADS RESISTANCE:

Series FG-2000 Storefront High Design Pressure w/ Non Impact Monolithic Tempered Glass has been verified to sustain wind pressures. Maximum Glass Panel Dimensions, Mullions Spans, & Horizontal Spans shall be as indicated on sheets 3, 5 and 7 of, of Product Evaluation Document (P.E.D.), Drawing No. 11-198.

Maximum Design Pressure Rating for Mullions Head/Sill connections and Jamb Connection Maximum Fasteners Spacing for applicable substrates shall be as indicated on sheets 6 and 10 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-198.

5. INSTALLATION:

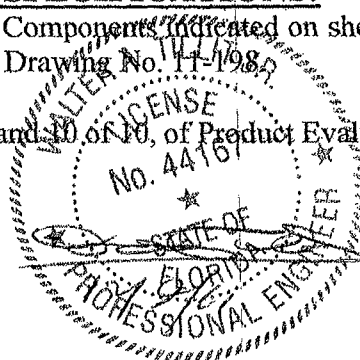
Installation shall be performed strictly in accordance with General Notes # 6, 7, 9 & 11, indicated on sheet 1 of 10 and details indicated on sheets 6, 8 thru 10 of 10, of Product Evaluation Document (P.E.D.), drawing No.11-198.

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 1 and 2) on Sheet 3 of drawing No. 11-198

6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2 & 3 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-198.

Anchor specifications shall be as indicated on sheets 6 and 10 of 10, of Product Evaluation Document (P.E.D.), Drawing No. 11-198.



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 10 of Product Evaluation Document (P.E.D.), Drawing No. 11-198 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 1620.2 of the Florida Building Code and within NON HIGH VELOCITY HURRICANE ZONES w/ limitations as per General Note 3, sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. 11-198.

7.3. Product shall only be installed into poured concrete, concrete block, metal (steel) and wood structures with limitations indicated on sheets 6 and 10 of 10 of Product Evaluation Document (P.E.D.), Drawing No. 11-198.

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

