

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

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PRODUCT EVALUATION REPORT

REPORT No.: 23-0714.11

DATE: July 14, 2023

PRODUCT CATEGORY: Skylight

PRODUCT SUB-CATEGORY: Skylight

PRODUCT NAME: Impact Resistant SCI – H500
Skylight Systems

MANUFACTURER: SKYLIGHT CONCEPTS, INC
9715 W. Broward Blvd #264,
Plantation, FL 33324

1. PURPOSE OF EVALUATION:

This is a Product Evaluation Report issued by **Walter A. Tillit, Jr., P.E.** (System ID # 1906) to **SKYLIGHT CONCEPTS, 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.23-097, titled **Impact Resistant SCI – H500 Skylight Systems**, sheets 1 thru 14 (including 2A & 8A) prepared by **Tilteco, Inc.**; signed and sealed by **Walter A. Tillit, Jr., P.E.**; dated **7/14/2023** This drawing is an integral part of this Evaluation Report.

WALTER A. TILLIT, JR.
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

2.2. TEST REPORTS:

Impact and Cyclic Tests as per protocol TAS-201 and TAS-203, and Uniform Static Load, air & water's infiltration as per TAS 202 per sections 1626 and 1609.1.2 of the Florida Building Code.

Test report prepared by American Test Lab of South Florida, Report No 0513.01-21, signed and sealed by Stephen W. Warter, P.E.

2.3. STRUCTURAL ENGINEERING CALCULATIONS:

On "Impact Resistant SCI – H500 Skylight Systems" for Maximum Pressure Rating vs. Maximum Span, and Maximum Glass Size, based on above indicated testing. Calculations for Glass verification prepared by Tilteco, Inc., dated October 14, 2022, signed and sealed by Walter A. Tillit, Jr., P.E., per ASTM E-1300, per section 2404.1 of the Florida Building Code.

3. MISSILE IMPACT RESISTANCE:

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

4. WIND LOADS RESISTANCE:

"Impact Resistant SCI – H500 Skylight Systems" has been verified to sustain wind pressures. Maximum Glass Panel Dimensions & Span shall be as indicated on sheets 1, 3 & 9 of Product Evaluation Document (P.E.D.), Drawing No. **23-097**.

5. INSTALLATION:

Installation shall be performed strictly in accordance with General Notes # 1 thru 3 and 10 thru 19, indicated on sheet 1, and details indicated on sheets 3 thru 6, of Product Evaluation Document (P.E.D.), drawing No. **23-097**.

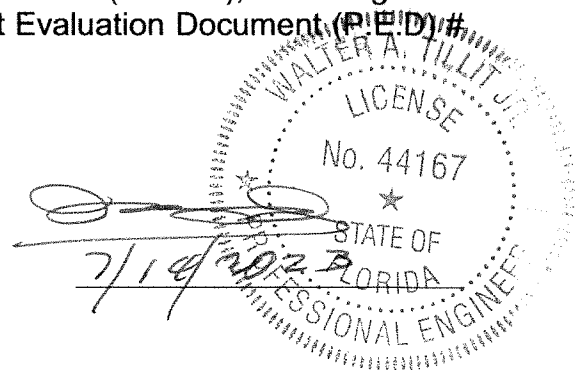
6. MATERIAL CHARACTERISTICS AND SPECIFICATIONS:

Shall be strictly in accordance with General Notes and Components indicated on sheets 1, 2, 2A, 8 & 8A of Product Evaluation Document (P.E.D.), Drawing No **23-097**, as well as applicable details included on P.E.D drawing # **23-097**.

Anchor requirements shall be as indicated on General Note 1A, Sheet 1, and details on Product Evaluation Document (P.E.D.), Drawing No. **23-097**.

7. LIMITATIONS AND CONDITIONS OF USE:

7.1. Shall be strictly in compliance with General Notes No. 1 thru 3, and 15 thru 18 indicated on sheet 1 of Product Evaluation Document (P.E.D.), Drawing No. **23-097**, as well as an details included on Product Evaluation Document (P.E.D.) # **23-097**



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 may be installed attached to poured concrete, aluminum or steel framing, strictly following criteria established by General Notes 1A & 3 on sheet 1 of P.E.D drawing # **23-097**

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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