



398 E DANIA BEACH BLVD. SUITE 338, DANIA BEACH, FL 33004

Product Evaluation Report

of

**Tubelite, Inc.
Series E34000/T34000 Storefront
(WZ3) (Impact)**

for

Florida Product Approval

FL# FL17192

Report No. 7517

Current Florida Building Code

Method: 1 – D (Engineering Evaluation)
Category: Panel Walls
Sub – Category: Storefronts

Product: Series E34000/T34000 Storefront
Materials: Aluminum 6063-T5 & Aluminum 6063-T6
Product Dimensions: See Installation Instructions, TLI012

Prepared for:

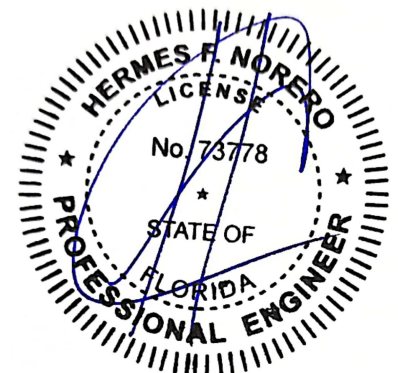
**Tubelite, Inc.
3056 Walker Ridge Drive N.W.
Walker, Michigan 49544**

Prepared by:

**Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 9/5/2023**

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Hermes F. Norero, P.E.
Florida P.E. No. 73778

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Manufacturer: Tubelite, Inc.
Product Category: Panel Walls
Product Sub-Category: Storefronts
Compliance Method: State Product Approval Method (1)(d)
Product Name: Series E34000/T34000 Storefront (WZ3)(Impact)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Tubelite, Inc.** based on Method 1d of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Florida Building Code.

See Installation Instructions **TLI012**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, **excluding** the “High Velocity Hurricane Zone” (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and **does not require** an impact resistant covering in Wind Zone 3 or less.
4. When used in areas requiring wind borne debris protection this product **does** require an impact resistant covering in Wind Zone 4.
5. Site conditions that deviate from the details of installation instructions **TLI012** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **TLI012** for size and design pressure limitations.

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Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the Current Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc., an Intertek Company** (FBC Organization #: QUA1844).

Performance Standards: The product described herein has been evaluated per:

- TAS 201-94
- TAS 202-94
- TAS 203-94
- ASTM E1996-17
- ASTM E1886-19
- ASTM E 283-04(12)
- ASTM E 331-00(09)
- ASTM E 330-14
- AAMA 501-15

Referenced Data:

1. Product Testing performed by **Architectural Testing, Inc.**
(FBC Organization # TST4311)
Report: D4091.01-450-18 Dated: 08/04/14
D4116.01-450-18 Dated: 08/08/14
Signed & Sealed: Shawn G. Collins, Florida P.E. No: 70655
2. Material Certification
Miami-Dade County Notice of Acceptance
Eastman Chemical Company (Previously Solutia)
Saflex CP (Vanceva Composites) PVB Interlayer

Material Certification
Miami-Dade County Notice of Acceptance
Kuraray America (Previously E.I. DuPont De Nemours & Co. Inc.)
Trosifol (Previously Butacite) PVB Interlayer
Sentryglas Interlayer
3. Quality Assurance
Architectural Testing, Inc., an Intertek Company
(FBC Organization #: QUA1844)

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Installation:

Refer to Installation Instructions, **TLI012**, for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to installation instructions, **TLI012**, for design pressures dependent on size options.

Equivalence of Test Standards:

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. Tubelite Inc. has tested their products to the following test standard edition(s):

- 1) ASTM E1886-05
- 2) ASTM E1996-09
- 3) ASTM E 283-04
- 4) ASTM E 331-00
- 5) ASTM E 330-02
- 6) AAMA 501-05

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

- 1) ASTM E1886-19
- 2) ASTM E1996-17
- 3) ASTM E 283-04(12)
- 4) ASTM E 331-00(09)
- 5) ASTM E 330-14
- 6) AAMA 501-15

After review of the above mentioned referenced standards and editions, it has been found that the results and tests carried out meet the requirements for compliance. All referenced standards have been found to be equivalent.