

Evaluation Report CHGL-450TB-SF-26
October 13, 2026

Product Description: 450TB Series Thermally Broken Aluminum Storefront System – Large Missile Impact

Manufacturer: Champion Glass Inc., Ft. Lauderdale, FL

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 9th Edition (2026) Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trace Trl, Camden, TN
- 2) Installation drawing CHGL-450TB-SF-26, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Report ATLSF 0218.01-26, from American Test Lab of South Florida, Ft. Lauderdale, FL, with testing performed with equivalency to: AAMA 501-25, ASTM E 283-04/12, ASTM E 330-14/21, ASTM E 331-00/23, ASTM E 1886-13a, ASTM E 1996-20, TAS 201/202 Full/203
- 4) Supplemental Calculations to support CHGL-450TB-SF-26, signed and sealed by Lucas A. Turner, P.E.

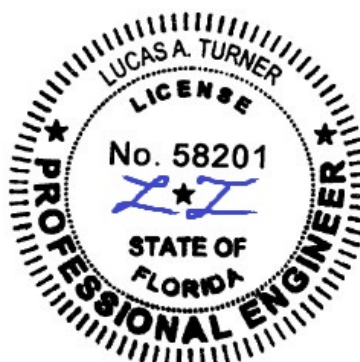
Installation: Units must be installed according to installation drawing CHGL-450TB-SF-26.

Limitations of Use: This product:

- May be used in the configurations and product sizes with Design Pressures (ASD) as indicated in CHGL-450TB-SF-26. The entire system shall be limited by the lowest design pressure from the Glass Load Capacity table on sheet 2, Jamb/Mullion Load Capacities tables on sheet 3, and Anchor Load Capacities table on sheet 4. Requires glazing as indicated in CHGL-450TB-SF-26, with interlayers in accordance with current Miami-Dade NOA.
- Is Wind Zone 4 Large Missile impact resistant and does not require the use of impact protective devices in windborne debris regions
- May be used in the High Velocity Hurricane Zone
- Requires thermally broken aluminum extrusions as indicated in CHGL-450TB-SF-26

Coastal Compliance:

- Fastener criteria other than described below shall be in accordance with CHGL-450TB-SF-26.



Lucas Turner
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Lucas A. Turner, P.E.
FL PE #58201

- Fasteners used in locations less than or equal to 300 ft from a saltwater coastline, where any portion of the fastener is located to the exterior of the Water-Resistive Barrier (WRB) of the wall construction, or is a Weather-Exposed Surface, or as otherwise required by the Authority Having Jurisdiction (AHJ), shall meet the criteria of FBC Sect. 1711.1.1.1 or RBC Section R332.1.1.1 as applicable.
 - For wood and metal installation substrates, requires stainless steel, 100 ksi min. ult. (cold worked).
 - For concrete/masonry substrates requires 1/4" Simpson Strong-Tie Type 316 Stainless-Steel Titen Turbo or 1/4" Dewalt Aggre-Gator 300 Series SS fasteners.
 - In solid concrete (2.67 ksi min.) requires 1-1/2" min. embedment. As a replacement for Anchor Type C, requires 1-1/2" min. edge distance for Aggre-Gator and 2-1/2" edge distance for Titen Turbo. As a replacement for Anchor Type E, requires 3" min. edge distance for Aggre-Gator and 2-1/2" edge distance for Titen Turbo.
 - In hollow or grout-filled CMU applications (ASTM C-90) as a replacement for Anchor Type B, requires 1-1/4" min. embedment and 2" min. edge distance.
 - In grout-filled CMU only (ASTM C-90) as a replacement for Anchor Type D, requires 2" min. embedment and 2" min. edge distance.
- Fasteners used in locations less than or equal to 300 ft from a saltwater coastline, where the entire fastener is located to the interior of the WRB of the wall construction, or determined by the Registered Design Professional or AHJ for the project to be located within the Unconditioned Interior of the wall construction, or as otherwise required by the AHJ, shall meet the criteria of FBC Sect. 1711.1.1.2 or RBC Section R332.1.1.2 as applicable^{††}.
- Fasteners used in locations greater than 300 ft and up to 3000 ft from a saltwater coastline, in any Exterior/Interior location of the wall construction, or as otherwise required by the AHJ, shall meet the criteria of FBC Sect. 1711.1.1.2 or RBC Section R332.1.1.2 as applicable^{††}

^{††} ITW Tapcon and Dewalt Ultracon+ carbon steel fasteners as listed in Table 1 meet these criteria with coatings provided by the manufacturer. Other fasteners must be galvanized or otherwise coated in accordance with one of the standards provided in FBC Sect. 1711.1.1.2 or RBC Sect. R332.1.1.2.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Champion Glass Inc. or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

