

Evaluation Report – Quarrix Double Roman Tile
March 14, 2024

Product Description: Quarrix Building Products Double Roman Composite Tile, Class A

Manufacturer: Liberty Plastics Inc., Minneapolis, MN

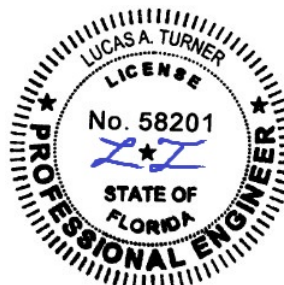
Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 8th Edition (2023) Florida Building Code for use outside the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trc Trl, Camden, TN
- 2) Test Reports K0685.01-121-24, K4530.01-109-36-LOR, I2520.01-109-44, Q6988.01-109-18 and Q6991.01/02-109-18, by Intertek, York, PA, signed and sealed by Tanya Dolby, P.E., with testing performed: ASTM D3161, ASTM E 108 Class A, FM4473 Class 4, TAS 100 to 110 mph, TAS 102 with Minimum Characteristic Resistance Load of 48.7 lbf, and TAS 125 with min. Ultimate Test Load Achieved of -172 psf (Design Pressure Rating of -86 psf utilizing 2:1 margin of safety in compliance with FBC sect. 1504.9)
- 3) Supplemental Calculations signed and sealed by Lucas A. Turner, P.E.

Installation and Limitations of Use:

- **Product Description:** Quarrix Building Products Double Roman Composite Tile, 0.280" thick, 2-1/4" tall, 13" wide with 1-13/32" side lap to provide 11-19/32" width exposure, 16-1/2" long with 3" head lap to provide 13-1/2" length exposure
- **Minimum Substrate:** solidly sheathed roof deck construction
- **Underlayment:** minimum is double-layer application of ASTM D 226 type II felt, installed and anchored per FBC Sect. 1507.1.1.1, or any underlayment with Florida Product Approval or Miami-Dade NOA as required by project location.
- **Fasteners:** product testing results as indicated above were achieved using attachment with Quarrix Tile Fasteners #10 x 2-3/4" coated roofing screws, 2 per tile through pre-punched holes at 6" on center, into 15/32" min. APA rated plywood. Other Approved fasteners in compliance with the FBC may be used with demonstrated equivalence to the tested screws. Structural testing was conducted over 3/4" thick Quarrix corrugated plastic battens/furring strips located under the attachment fasteners and installed with 2" 6d roofing nails with caps spaced 10" on center.



- **Other Limitations:**

- Requires minimum slope of 2:12.
- Design of substrate is by others and not part of this evaluation.
- All perimeters, penetrations, and transitions to be flashed and sealed per the requirements of the FBC
- Rational analysis, provided by a Florida licensed Architect or Engineer per FAS 61G20.3.005(e), may be used for project specific approval by the local AHJ
- For additional details see manufacturer installation instructions

- **Fire Rating:** The fire classification of the overall installed roofing assembly is beyond the scope of this evaluation. This product has been tested to ASTM E108 Class A @ unlimited slope, when installed over 2 layers of GAF VersaShield underlayment over 15/32" AC rated plywood.

- **Re-Roofing:** This product may be used over a single layer of asphalt shingles, provided that the requirements of FBC Sect. 1511 are met.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Liberty Plastics 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.

