

# WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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## PRODUCT EVALUATION

PRODUCT: OLD WORLD SPANISH A4 COMPOSITE ROOF TILE  
(Over 1/2" CDX Plywood)

MANUFACTURER: BRAVA ROOF TILE  
915 E. TYLER STREET  
WASHINGTON, IA 52353

To all concerned,

The Old World Spanish A4 Composite Roof Tile, manufactured by Brava Roof Tile, is a non-structural resin-based composite roof tile, mechanically fastened to a 1/2" CDX plywood deck (min), that meets the requirements of Sections 1507.3 and 1518.8 of the 7<sup>th</sup> Edition (2020) Florida Building Code. The roof tile has been tested per TAS 100, TAS 110, and TAS 125, with results shown in test reports TMIC-001-02-01 and TMIC-007-02-01 by PRI Construction Materials Technologies, ETC-06-718-18391.0 by ETC Laboratories, 01.12694.01.306a by Southwest Research Institute, and 0497-0201-08 by Architectural Testing, Inc.

### Technical Documentation:

1. Drawing "BOWSA4-HZ" dated 12/16/20, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above, signed and sealed by Charles Thomas PE or Duc T. Nguyen (PRI), Vinu Abraham PE (ATI), Barry Badders PE (SRI), or Joseph Doldan PE (ETC).
3. Supplemental Calculations to support "BOWSA4-HZ", signed and sealed by Scott Wolters, PE.

I have reviewed this submittal per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). Based on the limitations listed below and those provided in the documents above, this product meets all the requirements of the 7<sup>th</sup> Edition (2020) Florida Building Code generally, and chapter 15 specifically, including the HVHZ provisions.

Limitations: This roof tile is approved for use inside and outside of the HVHZ.

<u>Overall Limitations:</u>	Overall Tile Dimensions:	13" x 16 1/2" x 2 1/8"
	Coverage Dimensions:	11 1/2" x 13"
	Average Tile Thickness:	0.28"
	Max. Design Pressure (Field):	-91.75 psf
	(Perimeter & Corner):	-114.75 psf

<u>Tile Installation:</u>	Tile Fasteners (Field):	(2) 1/8" x 2 1/2" Corrosion Resistant Ring-Shank Roofing Nail
	(Perimeter & Corner):	(2) #10 x 2 1/2" Screw (Corrosion Resistant)

(Fasteners Penetrate Tiles thru Reinforced Nail Bosses)

Install composite tiles and accessories in compliance with the installation instructions and details from the manufacturer's current installation manual. Install flashings, penetrations, valleys, and other details per RAS 133 (Valleys must also meet RAS 118).

Fire Barrier: Where required by code, install an approved fire barrier. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. (See note #2 below)

Underlayment: Minimum ASTM D 226 Type II with 4" overlaps and 6" end-laps, anchored with 12 Ga. x 1 1/4" galvanized roof nails with 32 Ga. Tin caps spaced 6" O.C. in rows at the perimeter, at overlaps, and two intermediate rows staggered and spaced 12" O.C.  
(or)  
Any underlayment with a valid FLPA or Miami-Dade NOA

Min. Deck Requirements: 1/2" CDX Plywood (15/32" min) over 2x supports spaced 24" max O.C.

Deck Attachment: #8d x 2" Galv. Ring-Shank Roofing Nail.

Field Installation

Maximum Design Pressure: -91.75 psf  
Deck Fastener Spacing: 12" max O.C.

Perimeter and Corner Installation


Maximum Design Pressure: -114.75 psf  
Deck Fastener Spacing: 4" max O.C. Typically,  
3" max O.C. at seams.

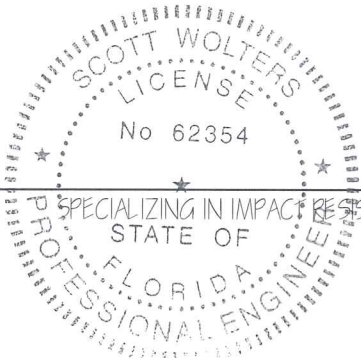
Other Limitations:

1. Roof slope must meet requirements of FBC Section 1507.3.2.
2. Fire classification is not a part of this evaluation. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
3. Design of substrate is by others and is not a part of this evaluation.
4. Rational analysis or extrapolation of pressures or fastener spacings is not permitted.

If you have any questions or need more information concerning this approval please contact me.

Thank you,

  
Scott Wolters  
FL PE# 62354



DEC 16 2020

SPECIALIZING IN IMPACT RESISTANT CURTAINWALLS, STOREFRONTS, & WINDOWS