



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Distributor: GRANADA ROOF TILE INC. *Issued June 18, 2024*
7275 NW 61st Street
Miami, FL 33166
(786) 641-9154
www.HandMadeRoofTile.com

Manufacturing Plants: Guatemala (Granada)

Quality Assurance: Keystone Certifications, Inc. (QUA1824)

SCOPE

Category: Roofing
Subcategory: Roofing Tiles
Code Edition: Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1507.3.4, 1507.3.7, 1523.6.5.2, 1523.6.5.2.2
Properties: Physical Properties, Static Uplift Resistance

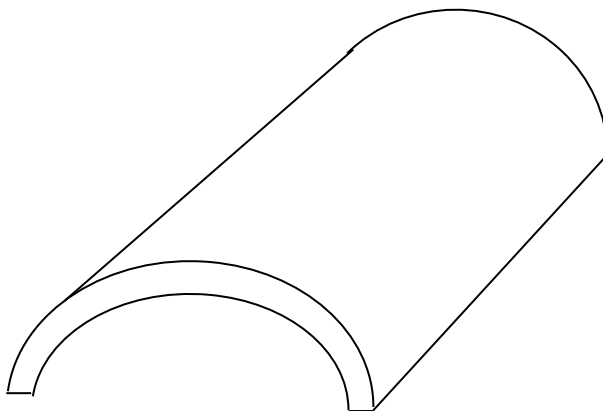
REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
American Test Lab of South Florida Inc (TST3782)	RT0727.02-15	TAS 101	1995
American Test Lab of South Florida Inc (TST3782)	RT0529.01-24	ASTM C 1167	2011(2017)

PRODUCT DESCRIPTION

Granada, Handmade, Clay, Barrel Roof Tile

Profile: ASTM C 1167, TAS 101, high profile, clay roof tile
Description: TAS 101 Type 1, high profile, class III clay tile, handmade
Dimensions: 17.25" x 7.75" x 3.0"; Nominal weight 6.5 lb



APPLICATION METHOD

Installation for Granada, Handmade, Clay, Barrel Roof Tile	
Slope:	Limited to slopes 3:12 or greater in the HVHZ; Outside the HVHZ, shall be in accordance with the recommendations of the FRSA/TRI <i>Florida High Wind Concrete and Clay Roof Tile Installation Manual</i> , Sixth Edition or RAS 120.
Roof Deck:	Solid or closely fitted min. 15/32-inch plywood sheathing for new and existing construction at max. 24 in. span; In the HVHZ, new construction shall be min. 19/32 in. plywood at max. 24 in. span; Designed by others in accordance with FBC requirements.
Underlayment:	Installed in accordance with FBC requirements. For adhesive set attachment of tile with APOC Polyset AH-160 or in the HVHZ, the minimum underlayment shall be Hot Mop 30/90 installed as described in RAS 118 Section 3.01.
Attachment:	Installed in accordance with FBC requirements. For adhesive set attachment of tile with APOC Polyset AH-160 or in the HVHZ, the pan tiles shall be set with a 10-inch center-to-center spread in a minimum 11-inch long x 4-inch wide x 1.5-inch thick patty of APOC Polyset AH-160 placed approximately 2.5-inches up from the nose. The cap tiles shall be adhered by placing one (1) minimum 17.25-inch long x 1-inch wide patty of APOC Polyset AH-160 along each longitudinal inside edge of the tile and immediately setting onto the pan tiles.

Data for Attachment Calculations										
Roof Tile	Nominal Weight (W) and Dimensions (l x w)			Aerodynamic Multipliers λ (ft ³)	Restoring Moments due to Gravity - M _g (ft-lbf) Direct Deck					
	W (lbf)	L (ft)	w (ft)	Direct Deck Application	2":12"	3":12"	4":12"	5":12"	6":12"	≥7":12"
Granada	6.9	1.44	0.65	0.20	4.92	4.84	4.74	4.61	4.48	4.33

Attachment Resistance Expressed as a Moment							
Roof Tile	Pan Tiles			Cap Tiles			M _f (ft-lbf)
	Adhesive	Patty Size ¹	Patty Weight ¹	Adhesive	Patty Size ¹	Patty Weight ¹	
Granada	APOC Polyset AH-160	11"x4"x1.5"	41.9g	APOC Polyset AH-160	17.25"x1"x1"	18.5g	137.5

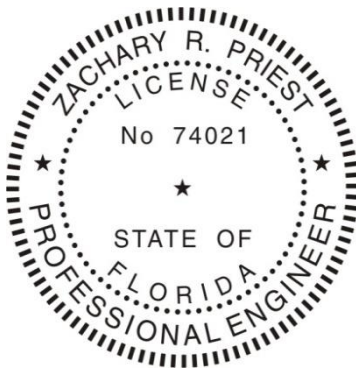
Notes: 1) Minimum dimensions and weight for adhesive application

LIMITATIONS

- 1) Fire Classification is not within the scope of this evaluation.
- 2) Installation of the evaluated products shall comply with FBC Section 1507.3, FRSA/TRI *Florida High Wind Concrete and Clay Roof Tile Installation Manual*, Seventh Edition and the manufacturer's published application instructions. Installations in the HVHZ shall comply with RAS 120. Where discrepancies exist between these sources, the more restrictive detail shall prevail.
- 3) Design wind load requirements shall be conducted in accordance with FBC Section 1609.5.3 in the non-HVHZ and RAS 127 in the HVHZ, using a moment based system.
- 4) All tiles shall bear the imprint or indelible label "Granada, Made in Guatemala".
- 5) In the HVHZ, a static field uplift test shall be conducted in accordance with TAS 106.
- 6) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



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Priest, PE, on 6/18/2024.

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CERTIFICATION OF INDEPENDENCE

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END OF REPORT