



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

Tejas Borja S.A.
Ctra. LLiria Pedralba Km3
46.160 LLiria (Valencia) Spain

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Mission 50 Clay Barrel Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA# 13-0521.01 and consists of pages 1 through 6.

The submitted documentation was reviewed by *Freddy Semino* 



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Approval Date: 09/23/18
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ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub Category: Roofing Tiles
Material: Clay

1. SCOPE

This approves a new roofing system using “**Mission 50 Clay Barrel Roof Tile**” as manufactured by **Tejas Borja, S.A. in Lliria, Valencia, Spain** and distributed by **Masterpiece Building Products, LLC** as described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Mission 50 Clay Barrel Roof Tile	L = 20” W = 8” Thickness = .5”	ASTM C1167	High profile, two-piece, tapered clay roof tile. For mortar set, adhesive set, direct deck or nail-on applications.
Trim Pieces	l = varies w = varies varying thickness	ASTM C1167	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 MANUFACTURING LOCATION

2.1.1. Lliria, Valencia, Spain

2.2 EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies	MTCI-001-02-01	ASTM C 1167	Jan. 2006
Redland Technologies	7161-03 Appendix III	Static Uplift Testing PA 102	Dec. 1991
Redland Technologies	7161-03 Appendix III	Static Uplift Testing PA 102(A)	Dec. 1991
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing PA 108 (Nail-On)	Dec. 1991
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 108 (Nail-On)	Aug. 1994
Redland Technologies	P09647-01	Wind Tunnel Testing PA 108 (Mortar Set)	Aug. 1994
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing PA 101 (Mortar Set)	May 1994



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2.2 EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
The Center for Applied Engineering, Inc.	25-7094-(2, 5, & 8)	Static Uplift Testing PA 102	Oct. 1994
The Center for Applied Engineering, Inc.	25-7183-(5 thru 6)	Static Uplift Testing PA 102	Feb. 1995
The Center for Applied Engineering, Inc.	25-7214-(1, 5, & 8)	Static Uplift Testing PA 102	March, 1995
The Center for Applied Engineering, Inc.	25-7487-2	Static Uplift Testing PA 102	Dec. 1995
The Center for Applied Engineering, Inc.	25-7496-(1 & 4)	Static Uplift Testing PA 102	Dec. 1995
The Center for Applied Engineering, Inc.	25-7804-6	Static Uplift Testing PA 102	Sep. 1996
Celotex Corporation Testing Service	520109-1 520111-4	Static Uplift Testing PA 101	Dec. 1998
Celotex Corporation Testing Service	520191-1	Static Uplift Testing PA 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	Mar 2006
Walker Engineering, Inc. ATL of South Florida	Calculations RT0525.01-18	Restoring Moments Due to Gravity ASTM C 1167	Mar 2006 June 2018

3. LIMITATIONS:

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test in accordance with TAS 106 may required, refer to applicable building code.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, Appendix 'A'. Such testing shall be submitted to the Department of Regulatory and Economic Resources, Board and Code Administration Division (RER)– Product Control Section for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



4. INSTALLATION

- 4.1 Mission 50 Clay Barrel Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119 and RAS 120.
- 4.2 Data For Attachment Calculations.

Table 1: Average Weight (W) and Dimensions (l x w)

Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Mission 50 Clay Barrel Tile	5.8	1.67	.67

Table 2: Aerodynamic Multipliers - λ (ft³)

Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Mission 50 Clay Barrel Tile	N/A	.289

Table 3: Restoring Moments due to Gravity - M_g (ft.-lbf)

Tile Profile	3":12"		4":12"		5":12"		6":12"		Greater than 7":12"	
	Battens	Direct Deck	Battens	Direct Deck						
Mission 50 Clay Barrel Tile	N/A	4.26	N/A	4.18	N/A	4.09	N/A	3.98	N/A	3.86

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Nail-On Systems

Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Mission 50 Clay Barrel Tile	2-10d Ring Shank Nails	28.6	41.2	N/A
	1-10d Smooth or Screw Shank Nail	5.1	6.8	N/A
	2-10d Smooth or Screw Shank Nails	6.9	9.2	N/A
	1 #8 Screw	20.7	20.7	N/A
	2 #8 Screw	43.2	43.2	N/A
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1	N/A
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3	N/A
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6	N/A
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1	N/A
	2-10d Ring Shank Nails ¹	33.1	48.1	N/A

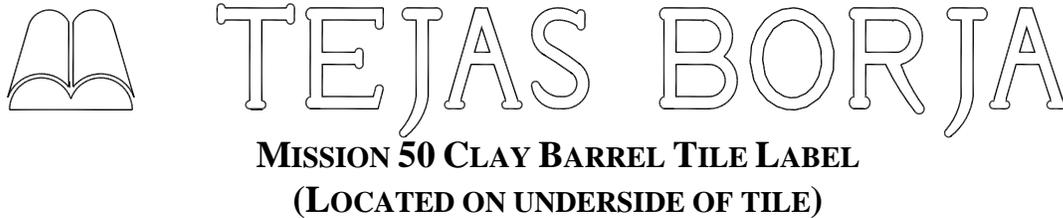
1. Installation with a 3" tile head lap and fasteners are located a min. of 2½" from head of tile.

Table 6: Attachment Resistance Expressed as a Moment - M_r (ft.-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Mission 50 Clay Barrel Tile	3M™ 2-Component Foam Roof Tile Adhesive AH-160	101.8 ¹
1 Medium paddy placement weight 35 grams of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 for the pan tiles. 17.5g on each side of the cap tiles.		

Table 7: Attachment Resistance Expressed as a Moment - M_r (ft.-lbf) for Mortar Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Mission 50 Clay Barrel Tile	Mortar Set ³	69.3
1 Tile-Tite Roof Tile Mortar.		

5. LABELING

5.1 All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as detailed below, or following statement: "Miami-Dade County Product Control Approved".

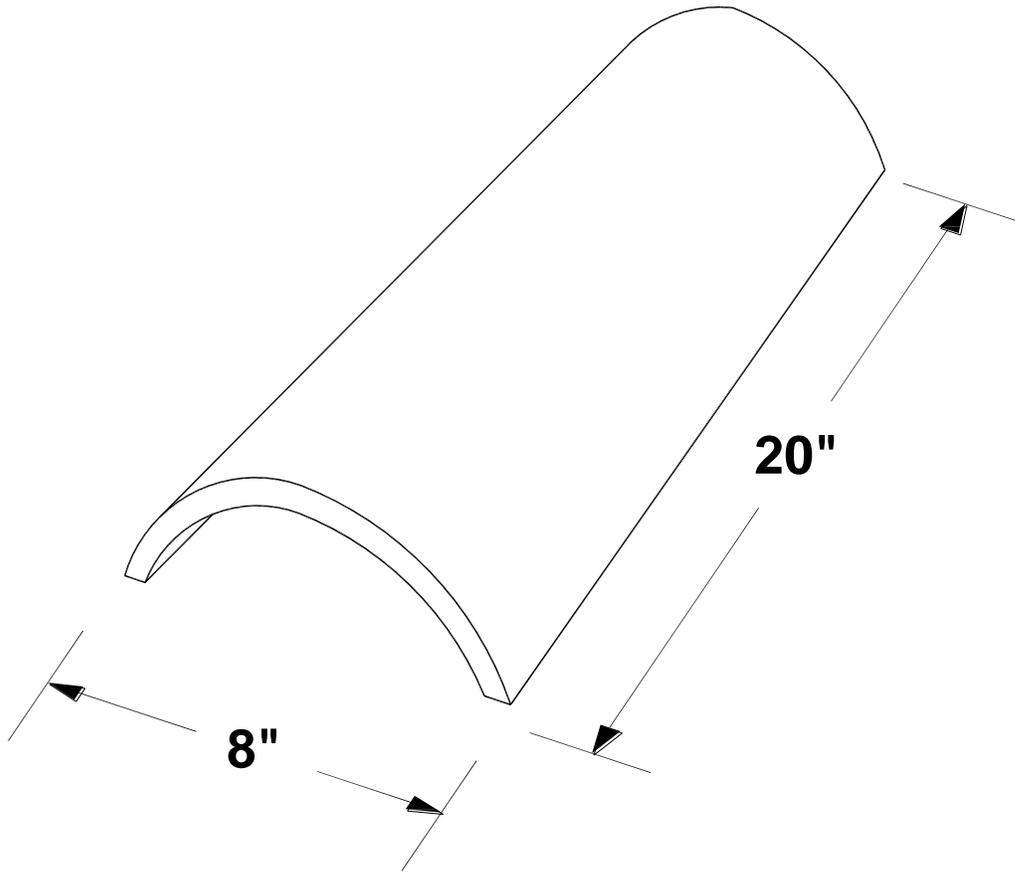


6. BUILDING PERMIT REQUIREMENTS:

- 6.1** Application for building permit shall be accompanied by copies of the following:
 - 6.1.1** This Notice of Acceptance.
 - 6.1.2** Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.



PROFILE DRAWING



MISSION 50 CLAY BARREL TILE

END OF THIS ACCEPTANCE



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