



CERAMICA INDUSTRIAL DE TECATE SA, DE CV (CIT)
PO Box 423
Tecate, CA 91980

Two-piece Mission, Two-piece Cancun and Oxford Clay Roof Tiles

CSI Section:
07 32 13 Clay Roof Tiles

1.0 RECOGNITION

The CIT Two-piece Mission, Two-piece Cancun and Oxford Clay Roof Tiles clay roofing tiles recognized in this report have been evaluated for weather resistance, wind uplift resistance and fire classification and found to be in compliance with IBC Chapter 15 and IRC Chapter 9 for use as a component in a Class A, B or C roof covering. The following code editions are recognized:

- 2015, 2012, 2009, 2006 International Building Code® (IBC)
- 2015, 2012, 2009, 2006 International Residential Code® (IRC)
- 2016 and 2013 California Building Code (CBC) and 2016 and 2013 California Residential Code (CRC) - attached Supplement
- 2017 and 2014 Florida Building Code, Building (FBC, Building) and 2017 and 2014 Florida Building Code, Residential (FBC, Residential) - attached Supplement

2.0 LIMITATIONS

Use of the CIT Two-piece Mission, Two-piece Cancun and Oxford Clay Roof Tiles recognized in this report is subject to the following limitations:

2.1 The roof tiles shall be manufactured, identified and installed in accordance with this report, the applicable code and the Roof Tile Installation Manual. In the event of a conflict the most restrictive governs.

2.2 CIT’s “clay roof tiles shall be installed on roof slopes of 2½ units vertical in 12 units horizontal (21-percent slope) or greater.” 2015 IBC Section 1507.3.2

2.3 The supporting structure must be designed to support the loads and is beyond the scope of this report.

3.0 PRODUCT USE

3.1 General: CIT’s clay roof tiles recognized in this report are identified in Table 2 and Figures 1 through 3 of this report.

The tiles and their accessory trim pieces:

- Satisfy the requirements of ASTM C1167;
- Provide a Class A Fire Classification when tested on combustible decks in accordance with ASTM E108.

3.2 Anchoring: CIT’s roof tiles can be anchored by fasteners complying with Section 1507.3.6 of the IBC or Section R905.3.6 of the IRC, as applicable.

3.3 Wind uplift resistance is addressed in Section 4.0 of this report.

4.0 PRODUCT DESCRIPTION

4.1 General: CIT’s roof tile installation shall be in accordance with the applicable code, the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions, dated August 2015, published by the Tile Roofing Institute and the Western States Roofing Contractors Association, and this report. In the event of a conflict, provisions of this report govern. The TRI manual is available for download attached to ER-2015 from the UES website at www.uniform-es.org.

4.2 Attachment: Tile shall be attached to the roof structure based the applicable code as noted in Table 1 below:

Table 1		
Attachment Design		
Applicable Code	Criteria for Applicability	Design Information Location
2015 or 2012 IBC	Ultimate Design Wind Speeds (V_{ult}) \leq 130 MPH and Mean Roof Height \leq 60 feet	Roof Tile Installation Manual & Table 1507.3.7 of the applicable IBC
2009 or 2006 IBC	Basic Wind Speed (3 sec gust) \leq 100 mph and Mean Roof Height \leq 60 feet	
2015, 2012, 2009 or 2006 IRC	Mean Roof Height \leq 40 feet	Roof Tile Installation Manual & Section R905.3.7

4.3 Fire Classification: CIT’s roof tiles, installed in accordance with this evaluation report, are Class A fire-retardant roof coverings in accordance with Section 1505.2 of the IBC and Section R902.1 of the IRC, as applicable.

4.4 Reroofing Applications: Reroofing applications shall follow the requirements of the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions. In addition, conformance to Section 1511 of the 2015 IBC,

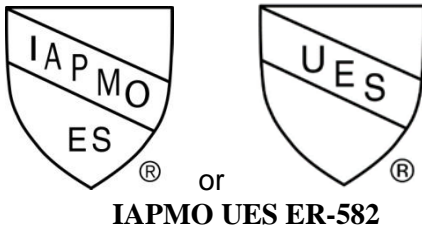




Section 1510 of the 2012, 2009 and 2006 IBC or Section R908 of the 2015 IRC, Section R907 of the 2012, 2009 and 2006 IRC, as applicable shall be observed.

5.0 IDENTIFICATION

Shipping pallets are identified with the report holder's name (CIT Clay Tiles), manufacturing location, product name, installed weight, date of production, approved inspection agency, the UES Mark of conformity and evaluation report number (ER-582). Either UES Mark of Conformity may be used as shown below:



6.0 SUBSTANTIATING DATA

Data in accordance with ICC-ES AC180, dated February 2012 (editorially revised April 2015), manufacturer's descriptive literature and installation instructions. Test results are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on CIT's Clay Roof Tiles to assess its conformance to the codes and standards shown in Section 1.0 of this report and documents the product's certification.

Brian Gerber, P.E., S.E.
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For additional information about this evaluation report please visit www.uniform-es.org or email at info@uniform-es.org



Table 2 – Ceramica Industrial Clay Roof Tiles

Tile	See Figure No.	Installed Dry Weight ¹ (psf)	Center to Center Spacing (inch)	Dimensions (inch)					Tile Type/Grade ²
				Length	Width		Thickness	Height	
					Large end	Small end			
17-inch Two - piece Cancun Mission Tile	1	8.8	9	17	6.75	5.5	0.5	2.75	Type I –High Profile/ Grade 2
20-inch Two - piece Mission Tile	2	9.3	11	20	8	6.5	0.5	3	Type I-High Profile/Grade 2
Oxford	3	15.1	-	15	7	-	0.6	-	Type III – Flat Tile/Grade 2

For SI: 1 inch = 25.4 mm, 1 psf = 4.88 kg/m²

¹Approximate weight for an installation with a headlap of 3 inches when installed at the center to center spacing shown. The Oxford tile installed weight is based on a headlap of 8.75 inches.

²Tile type and grade are based on ASTM C1167.

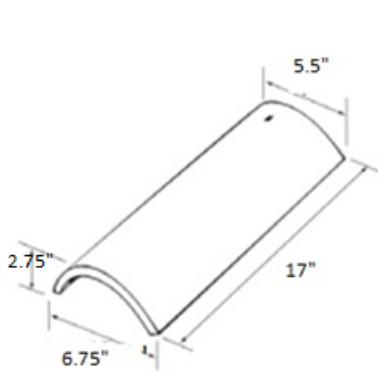


Figure 1 – Two-piece Cancun Mission Tile

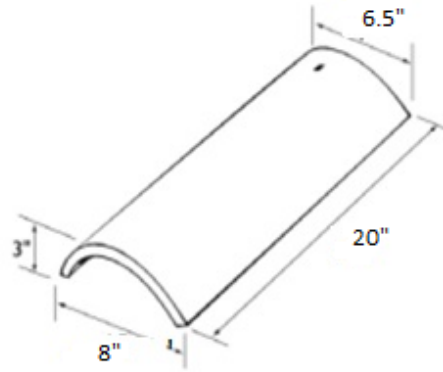


Figure 2 – Two-piece Mission Tile

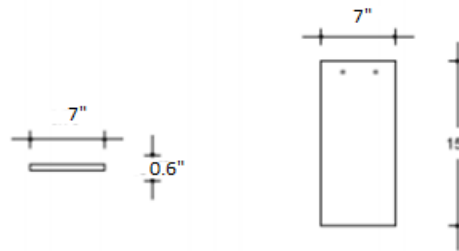


Figure 3 - Oxford



CALIFORNIA SUPPLEMENT

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**Two-piece Mission, Two-piece Cancun and Oxford
Clay Roof Tiles**

CSI Section:

07 32 13 Clay Roof Tiles

1.0 RECOGNITION

The CIT Clay Roof Tiles evaluated in IAPMO UES Evaluation Report ER-582 are a satisfactory alternative to the following codes and regulations:

- 2016 and 2013 California Building Code (CBC)
- 2016 and 2013 California Residential Code (CRC)

2.0 LIMITATIONS

2.1 The design and installation of the CIT Clay Roof Tiles shall be in accordance with Sections 1507.3.10 and 1512 of the CBC or Section 905.3 of the CRC, as applicable and ER-582.

2.2 The CIT Clay Roof Tiles may be used as a Class A, B, or C roof covering system complying with Sections 1505.1.1 of the CBC or R902.1.1 of the CRC; Sections 1505.1.2 of the CBC or R902.1.2 of the CRC; or Sections 1505.1.3 of the CBC or R902.1.3 of the CRC, respectively.

2.3 The CIT Clay Roof Tiles may be used in “new buildings located in any Fire Hazard Severity Zone or any Wildland-Urban Interface Fire Area designated by the enforcing agency constructed after the application date shall comply with the provisions: in accordance with Section 701A.3 and 705A of the CBC or Sections R327.1.3.1 and R327.5 of the CRC, as applicable and with the 2015 or 2012 IBC as presented in ER-582.

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FLORIDA SUPPLEMENT

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1.0 RECOGNITION

The CIT Clay Roof Tiles evaluated in IAPMO UES Evaluation Report ER-582 are a satisfactory alternative to the following codes and regulations:

- 2017 and 2014 Florida Building Code, Building (FBC, Building)
- 2017 and 2014 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

2.1 Verification shall be provided that a quality assurance agency audits the manufacturers quality assurance program and audits the production quality of products, in accordance with Section (5)(d) of Florida Rule 61G20-3.008. The quality assurance agency shall be approved by the Commission (or building official when the report holder does not possess an approval by the Commission).

2.2 Evaluation to the High-velocity Hurricane Zone provisions in Section 1518, 1620 and 1626 of the FBC, Building and Chapter 44 of the FBC, Residential is beyond the scope of this report.

3.0 PRODUCT USE

The design and installation of the CIT clay roof tiles shall be in accordance with the 2015 or 2012 International Building Code or the 2015 or 2012 International Residential Code, as applicable and as noted in ER-582. In accordance with the FBC, Building Section 1507.3 and FBC, Residential Section R905.3, the installation of the CIT tiles shall be in accordance with the requirements of the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fifth Edition where the V_{asd} is determined in accordance with FBC, Building Section 1609.3.1, FBC, Residential Section R301.2.1.3 or the recommendations of RAS 118, 119 or 120.

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