

ICC-ES Evaluation Report**ESR-2015P**

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07320—Roof Tiles**REPORT HOLDER:****TILE ROOFING INSTITUTE**
POST OFFICE BOX 40337
EUGENE, OREGON 97404-0049
(888) 321-9236
www.tilerroofing.org**EVALUATION SUBJECT****CONCRETE AND CLAY ROOF TILE INSTALLATION
MANUAL FOR MODERATE CLIMATE REGIONS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2009 *International Building Code*® (IBC)
- 2009 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*® (UBC)

Property evaluated:

Concrete and clay roof tile installation

2.0 USES

The Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions, published by the Tile Roofing Institute Inc. and the Western States Roofing Contractors Association, and dated March 2010 (the manual), describes a method for installation of concrete and clay roof tiles that is an alternative to IBC Section 1507.3.7, IRC Section R905.3.7 and UBC Tables 15-D-1 and 15-D-2. Copies of the manual are available on the ICC-ES web site at http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-2015plans.pdf or from the Tile Roofing Institute Inc. (web site at www.tilerroofing.org).

The manual is applicable to concrete and clay roof tiles recognized in current ICC-ES evaluation reports that reference the manual.

3.0 INSTALLATION

Roof tiles must be installed in accordance with the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions, for locations where the January mean temperature is greater than 25°F (-4°C) and where ice damming does not occur.

4.0 CONDITIONS OF USE

Roof tiles installed in accordance with the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following condition: The concrete or clay roof tiles must be recognized in a current ICC-ES evaluation report that specifically references the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions.

5.0 EVIDENCE SUBMITTED

- 5.1** The Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions, dated March 2010.
- 5.2** A study on seismic performance of roof tile installations.
- 5.3** Calculations for batten spacing.
- 5.4** Calculations for aerodynamic uplift moments based on data in accordance with SSTD-11.
- 5.5** Example calculations for aerodynamic uplift moment.
- 5.6** Calculations for typical restoring gravity moments.
- 5.7** Revised examples to calculate required and allowable aerodynamic uplift moment.