



CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 33 00—Roof Tiles

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: ENSOLTIS SAVANNA S ROOF TILE

Listee: ENSOLTIS GREEN HYBRID ROOFING LLC

Evaluation: Ensoltis Savanna S roof tile consists of an expanded polystyrene (EPS) core wrapped with a fiberglass scrim and covered with a 1/8-inch-thick (3.18 mm) cementitious base coat and a 1/16-inch-thick (1.57 mm) cementitious topcoat. The foam plastic core is manufactured from EPS board with a flame spread index not exceeding 75, when tested in accordance with ASTM E84. The tile is manufactured in an "S" profile, nominally 19 1/2 inches long by 13 1/2 inches wide by 3 1/4 inches high (495 mm by 343 mm by 83 mm), with a weight of 5.55 pounds (2.52 kg). The installed weight is 3.21 pounds per square foot (15.67 kg/m²) when installation is with a 3-inch (76 mm) headlap. See Figure 1 for the roof tile profile and Figure 2 for ridge and rake tile profiles. The tiles were evaluated when tested in accordance to the following standard:

- ASTM E108 (-07a), Standard Test Methods for Fire Tests of Roof Coverings, ASTM International.

Findings: The Savanna S roof tile, when a component of roof assemblies, has a Class A roof classification, as specified in Table 1 based on testing in accordance with ASTM E108, and as referenced in the applicable sections of the following code editions below.

- 2009 *International Building Code*®
Applicable Section: 1505.1
- 2009 *International Residential Code*®
Applicable Section: R902.1

TABLE 1—FIRE CLASSIFICATION ASSEMBLIES

SYSTEM NO.	ROOF CLASS	ROOF DECK	MAX. SLOPE	UNDERLAYMENT ¹	PANEL EXPOSURE (in.)
1	A	15/32-inch-thick plywood	6:12	One layer of GAF VersaShield® Fire-Resistant Roof Deck Protection underlayment	16.5

For SI: 1 inch = 25.4 mm.

¹GAF Versashield Fire-Resistant Roof Deck Protection underlayment must be installed in accordance with ESR-2053.

Identification:

1. The underside of each tile is imprinted with the manufacturer's name (Ensoltis) and the product name (Savanna S). Each pallet is labeled with the manufacturer's name (Ensoltis Green Hybrid Roofing LLC) and address, the product name (Savanna S), the production date code, the ICC-ES evaluation report number (ESR-2904) and / or ICC-ES listing number (ESL-1335), and when applicable, the ICC-ES listing mark, and the wording "ASTM E108-Class A."
2. The report holder's contact information is the following:

ENSOLTIS GREEN HYBRID ROOFING LLC
17018 ROAD 31
MADERA, CALIFORNIA 93636
(559) 744-3101
<http://ensoltisghr.com>
solraccorp@yahoo.com

Installation: The product must be installed in accordance with Ensoltis Green Hybrid Roofing LLC's published installation instructions and applicable codes.

Conditions of Listing:

1. The listing report addresses only conformance with the standard and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. The tiles are manufactured at the Ensoltis Green Hybrid Roofing facility located in Madera, California, under a quality control program with inspections by ICC-ES.

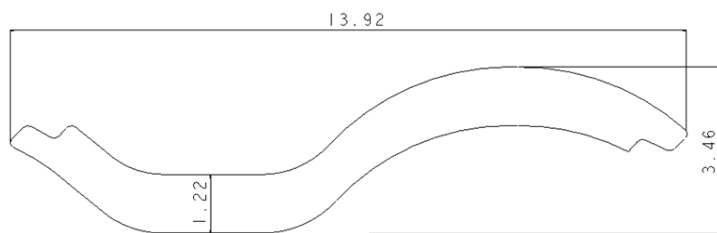


FIGURE 1—SAVANNA S ROOF TILE
 For SI: 1 inch = 25.4 mm.

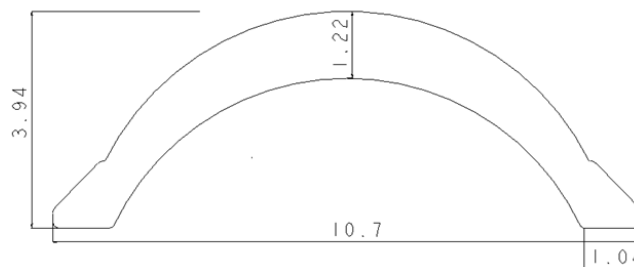


FIGURE 2—RIDGE AND RAKE TILE
 For SI: 1 inch = 25.4 mm