ATTACHMENT OF CLAY OR CONCRETE “S” ROOF TILE

Purpose: The purpose of this Interpretation of Regulations (IR) is to provide guidelines for the installation of “S” roof tiles.

Note: This IR is not applicable to roof tiles with an interlocking channel, and it is limited to maximum basic wind speed of 85mph, and maximum mean roof height of 60 feet.

General: Clay or concrete “S” roof tile attachments are acceptable as shown on Figure 1. For additional requirements, refer to 2001 CBC Section 1507.7A and Tables 15-D-1.1 and Tables 15-D-2.1. For projects submitted to DSA for review under the 2007 or 2010 CBC, refer to Section 1507.3 and Table 1507.3.7.

Alternatively, clay or concrete “S” roof tile attachments meeting the requirements of IR 15-2 are acceptable.

Inspection: The project inspector is to provide continuous inspection of the attachment of the roof tile. If the details do not conform to the approved drawings, application of the roof tile is not to be started until the attachment details have been reviewed and approved by the Division of the State Architect (DSA) field engineer (e.g. contractor substitution).

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Figure 1
Figure 1

Fig. 1A

1 fastener to wood strip

'S' roof tile

Height as required to fully support cover portion of tile

Continuous sound soft grain wood strip attached to roof sheathing with fastener (8d min.) at 12" o.c. (Staggered toe-nails each side when height of strip is greater than 1⅛")

1½" net

Fig. 1B

Tile tie wire to continuous tie or wire fastener roof sheathing

All tile installations on roof slope 7:12 and greater require tile lock device at bottom of each tile to prevent uplift

'S' roof tile

Fig. 1C

Twist continuous tie wire loop as required at tile tie wires to prevent rotation of tile

Equal angle at each tile tie wire

Continuous tie

'S' roof tile