Westlake
Royal Roofing Solutions™

NEWPOINT™
CONCRETE ROOF TILE

Technical Bulletin

INSTALLING MADERA CEDARLITE ON BATTENS

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Madera and Cedarlite® 600 are unique products in the world of concrete roof tiles. Because they are produced without the anchor lugs that are common on most concrete tiles, both are normally fastened directly to the roof deck rather than being hung on battens. Due to the design, the tiles must be fastened at all slopes with either one screw or two nails. The preferred method is quickly becoming the single screw since it obviously uses fewer fasteners and minimizes the number of penetrations through the underlayment. The other advantage that roofers notice is that the use of a single screw in the center hole seems to improve the walk-ability of the installed product.

Because of the product design, many roofers disregard the fact that Madera and Cedarlite® 600 may also be installed on battens and in fact Westlake Royal™ Roofing Components has a batten that was specifically designed for this type of installation. Since there are no lugs to hang onto the batten, it is necessary to align the top edge of the tile with the top edge of the batten. In so doing, the nail holes will fall approximately 1 ½ " from the top of the batten. This necessitates the use of a batten that is slightly wider than the traditional 1"x 2" batten (3/4"x 1 1/2"). The new Elevated Batten System® (EBS) that was developed to be a simplified version of the standard counterbatten system is made from nominal 1"x 3" lumber (3/4"x 2 ½") and provides a stronger batten that also places solid wood directly beneath the nail holes of this tiles.

The use of EBS allows for Madera and Cedarlite® 600 to be easily loaded and installed on steep roof slopes while providing strong support for the tile and allowing for good ventilation and drainage beneath the battens. Cedarlite of course may also be installed on battens fastened directly to the roof deck or to battens mounted on counterbattens. Where the building code allows, Madera and Cedarlite® 600 may also be installed onto spaced sheathing with special underlayments designed for that purpose.

Aside from the need for 1"x 3" lumber, the installation of either Madera or Cedarlite® 600 differs very little from normal application. It should be noted however, that the overall height of the roof assembly will be higher with this application and considerations should be made at downslope eaves and rake edges. A standard 1 ½" eave riser will normally provide proper support at the downslope eave while rake tile or special metal rake trim may be necessary at the rakes. Standard Madera and Cedarlite® 600 wedges may be used by running the EBS batten flush to the rake edge and then installing a minimum 2"x 2" metal drip edge on top of the battens to cover the space created by the battens. The wedges may then be secured to the top of the drip edge with adhesive or roofers' cement.