

SPECIALTY INSTALLATIONS

MC-28A

Turret & Cone Shaped Installations

1. Flat tile cone roof—If the contractor does not use pre-cut cone roof tiles, the contractor must cut trapezoid shapes from field tiles to fit the cone roof at the job site. Avoid any open gaps between tiles. Please be aware that cutting trapezoid shapes is not easy and also dangerous. You can re-start using a large size of trapezoid shape tiles near the top when tiles become too small to use. You must re-adjust the trapezoid angle to fit the cone roof. Installation of a flat cone roof is the same as shingle flat tiles. There is no side water channel.

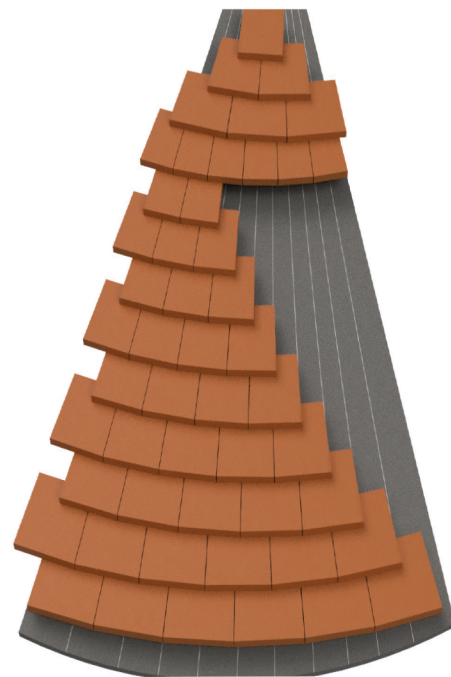
2. Two Piece Mission Cone Roof Tile—A two-piece mission cone roof differs from a flat tile cone roof. Two-piece mission tiles width exposure can be adjusted up to a certain point. All two-piece cone shape roof top and pan tiles are the same as the top tiles. Install narrowed shape side toward the top of the roof. Standard two-piece field pan tiles have a nail hole at the wide side of the tile. But the top and pan tiles of the cone roof tile have a nail hole on the narrow side of the tiles. When cone tiles become less than 5" (12.9 cm) wide, the tile loses the crown shape and becomes a flat bar tile. Restart the field tile again on the next upper course; it loses the appearance of a cone roof and becomes a high punch list. Contact the Two-Piece Mission Tile manufacturer to get a smaller shape of the two-piece mission. Near the top roof, there is no space to install pan tiles. Install top tiles only to finish up the top section. If there is any gap between the tiles, fill the gap with mortar cement to protect the underlayment against UV.

3. The architectural drawing vs. the actual framework should have the same slope distance before installing the underlayment. Pre-cut cone roof tiles are all custom-made to fit the specified cone roof. The factory produces cone roof tiles with the provided architectural drawings. When the cone roof frame is complete, the roofing contractor must check the cone roof slope distance and the angle of the pie shape. If they find a different dimension, it is essential that the roofing contractor must request to fix the roof deck before installing the underlayment or notify the manufacturer to adjust the cone roof tiles. Otherwise, the cone roof tiles will not fit the specified cone roof.

4. Recommendation—Cutting many cone roof tiles at the job site is very dangerous to the worker. In any case, the contractor needs to cut the cone roof tiles; it is recommended to use a wet saw to cut tile on ground level to avoid tile-cutting dust all over the roof tile.

Usually, manufacturers produce pre-cut cone roof tiles during the raw material processes, and they do not cut tile from the finished field tiles. The benefit of using pre-cut cone roof tiles is that they will match the tile's exposure and color scheme with the field tile. Also, it will save many hours of labor and materials.

Please get in touch with TRI or the tile manufacturers for more detail.



Drawing shown depicts the application of all tile profiles. Unless otherwise noted, it would apply to either concrete or clay tiles.