This form is for One and Two Family Dwellings only
Address_____
Wind Speed_____
Exposure_____
Roof Pitch_____
Direct Deck _____ Battens _____

Roof Tile Moment of Resistance Calculations

Moment of Resistance - Negative Design Wind Pressure (located in Component and Cladding Load Sheet) x the Aerodynamic Multiplier (located in Product Approval) – Restoring Moment due to Gravity (located in Product Approval)

Zone 1 (_____ x _____) - _____ = _____

Zone 2 (_____ x _____) - _____ = _____

Zone 3 (_____ x _____) - _____ = _____

Proposed Method of Attachment and the minimum resistance (stated in Product Approval)
_____exceeds the calculations above

Per the FRSA Concrete and Clay Roof Tile Installation Manual

Spray Foam Adhesive used must be available on site and shall be the product that the tile was tested with as stated in the Product Approval

For slopes above 6:12 up to and including 7:12 fasten every tile in first course and every third tile of the fifth course in addition to the tile adhesive. For slopes above 7:12 fasten every tile in addition to the tile adhesive . Apply compatible flashing cement to seal all fastener penetrations where required . When utilizing battens and tiles with batten lugs additional fastening is not required

Corrosion resistant nails meeting ASTM A 641 Class 1 and /or corrosion resistance equal (according to ASTM B 117) of sufficient length to penetrate a minimum ¾" into or through thickness of the deck or batten , whichever is less
A .Ring shank nails shall be 10d ring shank corrosion resistant steel nails (3" inches long , 0.283 inch flat head diameter , 0.121.inch shank diameter , 18-22 rings per inch)
B. Smooth or screw shank nails be 10d corrosion resistant steel (3" long , 0.28 inch flat head diameter , 0.128 inch screw or 0.131 inch smooth shank diameter).

Corrosion – resistant screw fasteners meeting ASTM A 641 Class 1 and or corrosion resistance equal (according to ASTM B 117) . Screws shall be 2 ½" in length or penetrate a minimum of ¾" into the deck or batten , whichever is less