

4. **INSTALLATION**
4.1 Volcan by Altusa Spanish "S" Clay Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 120.
4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Volcan by Altusa	7.1	1.650	0.833

Table 2: Aerodynamic Multipliers - λ (ft ²)			
Tile Profile	λ (ft ²)	Batten Application	λ (ft ²) Direct Deck Application
Volcan by Altusa	0.235		0.255

Table 3: Restoring Moments due to Gravity - M_r (ft-lbf)									
Tile Profile		3" x 12"		4" x 12"		5" x 12"		6" x 12"	
		Direct	Batten	Direct	Batten	Direct	Batten	Direct	Batten
2" x 12" or less		Direct	Batten	Direct	Batten	Direct	Batten	Direct	Batten
Batten		Deck	Deck	Deck	Deck	Deck	Deck	Deck	Deck
4.78	5.12	4.71	5.05	4.62	4.96	4.51	4.84	4.38	4.67
								4.25	4.55



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