

Table 4: Attachment Resistance Expressed as a Moment - M_t (ft-lbf)				
Tile Profile	Fastener Type	Direct Deck (Min. 19/32" plywood)	Direct Deck (Min. 19/32" plywood)	Battens
Volcan by Alusa	2-10d Ring Shank Nails	28.6	41.2	19.4
	1-10d Smooth or Screw	6.1	6.8	2.8
	Shank Nail (Field Clip)			
	2-10d Smooth or Screw	8.9	9.2	7.3
	Shank Nail (Field Clip)			
	1-10d Smooth or Screw	28.7	28.7	N/A
	2-10d Smooth or Screw	28.2	58.2	28.8
	1-10d Smooth or Screw	23.1	23.1	19.0
	2-10d Smooth or Screw	29.3	29.3	24.0
	Shank Nail (Field Clip)			
	2-10d Smooth or Screw	27.6	27.6	38.6
	Shank Nail (Field Clip)			

Table 5: Attachment Resistance Expressed as a Moment M_t (ft-lbf)		
Tile Profile	Tile Application	Minimum Attachment Resistance
Volcan by Alusa	Adhesive	29.3 ¹
¹ See manufacturer's component approval for fastener requirements. ² See manufacturer's component approval for fastener requirements. ³ Flexible Products Company Tieson Adhesive applied per party 10.7 grams. Polydram Product, Inc. Average weight per party 8 grams.		

Table 6A: Attachment Resistance Expressed as a Moment - M_t (ft-lbf)		
Tile Profile	Tile Application	Minimum Attachment Resistance
Volcan by Alusa	Polydram PolyPro™	88.5 ¹
¹ Large patchy placement of Polydram PolyPro™. ² Medium patchy placement of Polydram PolyPro™. ³ Medium patchy placement of Polydram PolyPro™.		

Table 6B: Attachment Resistance Expressed as a Moment - M_t (ft-lbf)		
Tile Profile	Tile Application	Attachment Resistance
Volcan by Alusa	Mortar Set ¹	24.50



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