

PVC Membrane Attachment Table For Mechanically Attached Systems

Deck Type	Minimum Pull-out Values (lbs)	Fastener Type	Plate	Penetration	Standard Pattern	90 psf* Pattern
22 ga. standard	450	Drill•Tec XHD (#15)	2 3/8" barbed XHD	3/4" through the deck	18" o.c.	6" o.c.
	450	Drill•Tec XHD (#15)	2" double barbed	3/4" through the deck	18" o.c.	
	450	Drill•Tec XHD (#15)	2 3/4" double barbed SXHD	3/4" through the deck	18" o.c.	6" o.c.
	350	Drill•Tec HD (#14)	2 3/8" barbed XHD	3/4" through the deck	18" o.c.	6" o.c.
	350	Drill•Tec HD (#14)	2" double barbed	3/4" through the deck	12" o.c.	
22 ga. high strength (Grade E)	550	Drill•Tec XHD (#15)	2 3/8" barbed XHD	3/4" through the deck	18" o.c.	12" o.c.
	450	Drill•Tec XHD (#15)	2" double barbed	3/4" through the deck	12" o.c.	6" o.c.
24 ga. standard	350	Drill•Tec XHD (#15)	2 3/8" barbed XHD	3/4" through the deck	12" o.c.	6" o.c.
	350	Drill•Tec XHD (#15)	2" double barbed	3/4" through the deck	12" o.c.	
	350	Drill•Tec XHD (#15)	2 3/4" double barbed SXHD	3/4" through the deck	12" o.c.	
	350	Drill•Tec HD (#14)	2 3/8" barbed XHD	3/4" through the deck	6" o.c.	
	350	Drill•Tec HD (#14)	2" double barbed	3/4" through the deck	6" o.c.	
2" Nominal Wood Plank	800	Drill•Tec HD (#14)	2 3/8" barbed XHD	1" into the deck	18" o.c.	6" o.c.
	800	Drill•Tec HD (#14)	2" double barbed	1" into the deck	18" o.c.	6" o.c.
1" Nominal Wood Plank	450	Drill•Tec HD (#14)	2 3/8" barbed XHD	Through the deck	12" o.c.	
	450	Drill•Tec HD (#14)	2" double barbed	Through the deck	12" o.c.	
3/4" Plywood	525	Drill•Tec HD (#14)	2 3/8" barbed XHD	Through the deck	18" o.c.	6" o.c.
	525	Drill•Tec HD (#14)	2" double barbed	Through the deck	18" o.c.	6" o.c.
1/2" Plywood	350	Drill•Tec HD (#14)	2 3/8" barbed XHD	Through the deck	12" o.c.	
	350	Drill•Tec HD (#14)	2" double barbed	Through the deck	12" o.c.	

*90 psf is attachment pattern to provide 90 lbs. per square foot of uplift pressure resistance and may equate to FM I-90, Refer to current FMRC Approval Guide.

NOTE: For designing at elevated uplift pressures, please consult the current FMRC Approval Guide.

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Deck Type	Minimum Pull-out Values (lbs)	Fastener Type	Plate	Penetration	Standard Pattern	90 psf* Pattern
Structural Concrete	700	Drill•Tec XHD (#15)	2 3/8" barbed XHD	1" into the deck	18" o.c.	12" o.c.
	700	Drill•Tec XHD (#15)	2" double barbed	1" into the deck	18" o.c.	
	900	Drill•Tec Spike	2 3/8" barbed XHD	1" into the deck	18" o.c.	12" o.c.
	900	Drill•Tec Spike	2" double barbed	1" into the deck	18" o.c.	12" o.c.
	900	Drill•Tec Spike	2 3/4" double barbed SXHD	1" into the deck	18" o.c.	12" o.c.
Lightweight Insulating Concrete, 22 ga. standard form	450	Drill•Tec XHD (#15)	2 3/8" barbed XHD	3/4" through the form	18" o.c.	6" o.c.
	450	Drill•Tec XHD (#15)	2" double barbed	3/4" through the form	18" o.c.	
	350	Drill•Tec HD (#14)	2 3/8" barbed XHD	3/4" through the form	12" o.c.	6" o.c.
	350	Drill•Tec HD (#14)	2" double barbed	3/4" through the form	6" o.c.	
Lightweight Insulating Concrete, 24 ga. standard form	350	Drill•Tec XHD (#15)	2 3/8" barbed XHD	3/4" through the form	12" o.c.	6" o.c.
	350	Drill•Tec XHD (#15)	2" double barbed	3/4" through the form	12" o.c.	
	350	Drill•Tec HD (#14)	2 3/8" barbed XHD	3/4" through the form	12" o.c.	6" o.c.
	350	Drill•Tec HD (#14)	2" double barbed	3/4" through the form	12" o.c.	
Gypsum Concrete 2" pour or precast	400	Drill•Tec Polymer Screw	2" galvalume plate	1 1/2" into the deck	12" o.c.	
	400	Drill•Tec Polymer Screw	2 3/8" barbed XHD	1 1/2" into the deck	12" o.c.	6" o.c.
Cementitious Wood Fiber 2" panel	300	Drill•Tec Polymer Screw	2" galvalume plate	1 1/2" into the deck	12" o.c.	
	300	Drill•Tec Polymer Screw	2 3/8" barbed XHD	1 1/2" into the deck	12" o.c.	6" o.c.

*90 psf is attachment pattern to provide 90 lbs. per square foot of uplift pressure resistance and may equate to FM I-90, Refer to current FMRC Approval Guide.

NOTE: For designing at elevated uplift pressures, please consult the current FMRC Approval Guide.