STEEL THREADED ROD ANCHOR

Load Capacities







Steel Anchors - Ultimate Load Capacities ASTM A36 Steel, ASTM A572 Purlins

Anchor Size / Rod Dia. (in.)	Direction	Screw Thread Size & Length (in.)	Minimum Steel Gauge (Thickness)				
			20	18	16	14	12
1/4	Vertical	1/4-20 x 1-1/2	315	513	720	900	1,800
3/8	Vertical	1/4 x 1	1,170	1,710	3,060	3,420	3,375
3/8	Vertical	1/4 x 1-1/2	1,170	1,710	3,060	3,420	3,375
3/8	Vertical	12-20 x 1-1/2	1,170	1,710	1,800	1,800	2,250

- 1. Allowable load capacities for Vertical Steel Threaded Rod Anchor were calculated using an safety factor of 4:1
- 2. In some states, design codes may accept lower allowable loads- please make sure to check your local codes to see what applies.
- 3. Minimum edge distance must be 1" and spacing must be 2" or greater.
- 4. Consideration of safety factor of 20 or higher may be necessary depending on certain applications, such as, sustained tensile loading applications.

Steel Anchors - Allowable Load Capacities ASTM A36 Steel, ASTM A572 Purlins

Anchor Size / Rod Dia. (in.)	Direction	Screw Thread Size & Length (in.)	Minimum Steel Gauge (Thickness)					
			20	18	16	14	12	
1/4	Vertical	1/4-20 x 1-1/2	80	130	180	225	450	
3/8	Vertical	1/4 x 1	290	425	765	855	840	
3/8	Vertical	1/4 x 1-1/2	290	425	765	855	840	
3/8	Vertical	12-20 x 1-1/2	290	425	450	450	560	

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