

Steel Rod Hanger Threaded Rod Anchor System



Ultimate and Allowable Loads for Vertical Steel Rod Hangers

Model No.	Rod Dia. (in.)	Size (in.)	Loads in Various Steel Thicknesses												UL Listed Steel Thickness Range	FM Listed Steel Thickness Range		
			33 mil (20 ga.)		43 mil (18 ga.)		54 mil (16 ga.)		68 mil (14 ga.)		97 mil (12 ga.)		3/16"				1/4"	
			Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)			Ult. (lb.)	Allow. (lb.)
RSV25100	1/4	1/4 x 1	355	130	575	190	880	325	1,110	410	2,050	760	—	—	—	—	—	—
RSV37100N ³	3/8	1/4 x 1	1,370	505	1,980	730	3,405	1,260	3,890	1,440	3,900	1,440	—	—	—	—	20 ga. – 12 ga.	16 ga. – 12 ga.
RSV37112	3/8	1/4 x 1 1/2	355	130	575	190	880	325	1,110	410	—	—	—	—	—	—	—	—
RSV37112N ³	3/8	1/4 x 1 1/2	1,370	505	1,980	730	3,405	1,260	3,890	1,440	—	—	—	—	—	—	20 ga. – 14 ga.	16 ga. – 14 ga.
RSV37200	3/8	1/4 x 2	355	130	575	190	880	325	1,110	410	—	—	—	—	—	—	—	—
RSV37112N-5 ³	3/8	#12–20 x 1 1/2	1,370	505	1,980	730	2,185	730	2,185	730	2,560	940	3,290	1,095	3,290	1,095	20 ga. – 1/4"	16 ga. – 1/4"

Footnotes below apply to both tables.

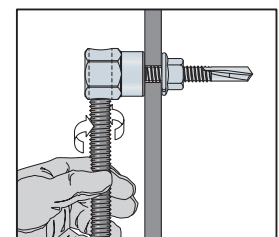
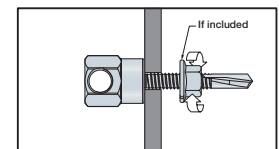
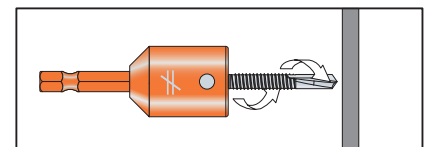
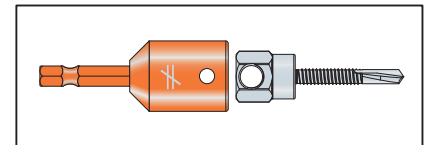


Ultimate and Allowable Loads for Horizontal Steel Rod Hangers

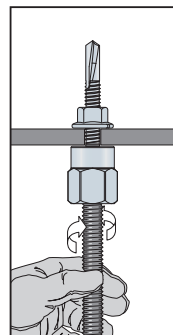
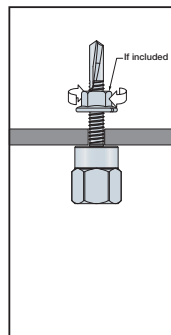
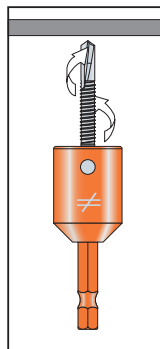
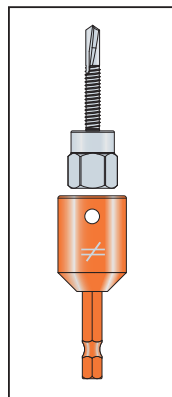
Model No.	Rod Dia. (in.)	Size (in.)	Loads in Various Steel Thicknesses												UL Listed Steel Thickness Range	FM Listed Steel Thickness Range		
			33 mil (20 ga.)		43 mil (18 ga.)		54 mil (16 ga.)		68 mil (14 ga.)		97 mil (12 ga.)		3/16"				1/4"	
			Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)	Ult. (lb.)	Allow. (lb.)			Ult. (lb.)	Allow. (lb.)
RSH25112-5	1/4	#12–20 x 1 1/2	420	155	685	255	835	310	930	310	1,240	425	1,270	425	1,350	500	—	—
RSH25100N ³	1/4	1/4 x 1	1,150	385	1,235	455	1,235	455	1,235	455	1,480	545	—	—	—	—	—	—
RSH37100N ³	3/8	1/4 x 1	1,575	525	1,865	665	1,865	665	1,865	665	1,865	665	—	—	—	—	18 ga. – 12 ga.	16 ga. – 12 ga.
RSH37112N-5 ³	3/8	#12–20 x 1 1/2	1,490	550	1,490	550	1,490	550	1,490	550	1,490	550	1,490	550	1,490	550	18 ga. – 1/4"	16 ga. – 1/4"

1. Allowable loads are based on a factor of safety calculated in accordance with AISI S100 Section F1.
2. Mechanical and plumbing design codes may prescribe lower allowable loads. Verify with local codes.
3. Model requires installation with supplied retaining nut.
4. Values are based on steel members with the following minimum yield and tensile strengths:
 - 43 mil (18 ga.) and 33 mil (20 ga.): $F_y = 33$ ksi and $F_u = 45$ ksi
 - 54 mil (16 ga.) to 97 mil (12 ga.): $F_y = 50$ ksi and $F_u = 65$ ksi
 - 3/16" and 1/4": $F_y = 36$ ksi and $F_u = 58$ ksi.
5. Minimum edge distance must be 1" and minimum spacing must be 2".
6. Acceptability of base material deflection due to imposed loads must be investigated separately.

Horizontal Installation



Vertical Installation



* See p. 13 for an explanation of the load table icons.