

Maximum Half of Duct Perimeter	Pair at 10 ft Spacing		Pair at 8 ft Spacing		Pair at 5 ft Spacing		Pair at 4 ft Spacing	
	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod
P/2 = 30"	1" x 22 ga	10 ga (.135")	1" x 22 ga	10 ga (.135")	1" x 22 ga	12 ga (.106")	1" x 22 ga	12 ga (.106")
P/2 = 72"	1" x 18 ga	5/8"	1" x 20 ga	1/4"	1" x 22 ga	1/4"	1" x 22 ga	1/4"
P/2 = 96"	1" x 16 ga	5/8"	1" x 18 ga	5/8"	1" x 20 ga	5/8"	1" x 22 ga	1/4"
P/2 = 120"	1 1/2" x 16 ga	1/2"	1" x 16 ga	5/8"	1" x 18 ga	5/8"	1" x 20 ga	1/4"
P/2 = 168"	1 1/2" x 16 ga	1/2"	1 1/2" x 16 ga	1/2"	1" x 16 ga	5/8"	1" x 18 ga	5/8"
P/2 = 192"	Not Given	1/2"	1 1/2" x 16 ga	1/2"	1" x 16 ga	5/8"	1" x 16 ga	5/8"
P/2 = 193" up	Special Analysis Required							
When Straps are Lap Joined Use These Minimum Fasteners:				Single Hanger Maximum Allowable Load				
				Strap		Wire or Rod (Dia.)		
1" x 18, 20, 22 ga -two #10 or one 1/4" bolt 1" x 16 ga -two 1/4" dia. 1 1/2" x 16 ga -two 5/8" dia Place fasteners in series, not side by side.				1" x 22 ga - 260 lbs. 1" x 20 ga - 320 lbs. 1" x 18 ga - 420 lbs. 1" x 16 ga - 700 lbs. 1 1/2" x 16 ga - 1100 lbs.		0.106" - 80 lbs. 0.135" - 120 lbs. 0.162" - 160 lbs. 1/4" - 270 lbs. 5/8" - 680 lbs. 1/2" - 1250 lbs. 5/8" - 2000 lbs. 3/4" - 3000 lbs.		

Table 5-1 Rectangular Duct Hangers Minimum Size

NOTES:

- a. Dimensions other than gage are in inches.
- b. Tables allow for duct weight, 1 lb./sf insulation weight and normal reinforcement and trapeze weight, but no external loads!
- c. For custom design of hangers, designers may consult SMACNA's *Rectangular Industrial Duct Construction Standards*, the AISI *Cold Formed Steel Design Manual* and the AISC *Steel Construction Manual*.
- d. Straps are galvanized steel; other materials are uncoated steel.
- e. Allowable loads for P/2 assume that ducts are 16 ga maximum, except that when maximum duct dimension (w) is over 60 in. then P/2 maximum is 1.25 w.
- f. For upper attachments see Figs. 5-2, 5-3 and 5-4.
- g. For lower attachments see Fig. 5-5.
- h. For trapeze sizes see Table 5-3 and Fig. 5-6.
- i. 12, 10, or 8 ga wire is steel of black annealed, bright basic, or galvanized type.
- j. Cable hanging systems with adjustable mechanical device.

