

RECTANGULAR DUCT HANGERS **MINIMUM SIZE**

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	3/8"	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	3/8"	1" x 18 ga	3/8"	1" x 20 ga	3/8"	1" x 22 ga	1/4"
P/2 = 120"	1 1/2" x 16 ga	1/2"	1" x 16 ga	3/8"	1" x 18 ga	3/8"	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	3/8"	1" x 18 ga	3/8"
P/2 = 192"	<i>Not Given</i>	1/2"	1 1/2" x 16 ga	1/2"	1" x 16 ga	3/8"	1" x 16 ga	3/8"
P/2 = 193" up	SPECIAL ANALYSIS REQUIRED							

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS

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 3/8" dia.

Place fasteners in series, not side by side.

SINGLE HANGER MAXIMUM ALLOWABLE LOAD

STRAP		WIRE OR ROD (DIA.)	
1" x 22 ga	260 lbs.	0.106"	80 lbs.
1" x 20 ga	320 lbs.	0.135"	120 lbs.
1" x 18 ga	420 lbs.	0.162"	160 lbs.
1" x 16 ga	700 lbs.	1/4"	270 lbs.
1 1/2" x 16 ga	1100 lbs.	3/8"	680 lbs.
		1/2"	1250 lbs.
		5/8"	2000 lbs.
		3/4"	3000 lbs.

NOTES

- Dimensions other than gage are in inches.
- Tables allow for duct weight, 1 lb./sf insulation weight and normal reinforcement and trapeze weight, but no external loads!
- 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*.
- Straps are galvanized steel; other materials are uncoated steel.
- 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.
- For upper attachments see Figs. 5-2, 5-3 and 5-4.
- For lower attachments see Fig. 5-5.
- For trapeze sizes see Table 5-3 and Fig. 5-6.
- 12, 10, or 8 ga wire is steel of black annealed, bright basic, or galvanized type.
- Cable hanging systems with adjustable mechanical device.