





PRODUCT CATALOG RECTANGULAR DUCT & FITTINGS

STRAIGHT DUCT



Description

Single wall rectangular duct and fittings are factory fabricated and supplied with factory applied sealant on all longitudinal joints for S & Drive slip ducts and additionally on transverse joints for all flanged end ducts and fittings.

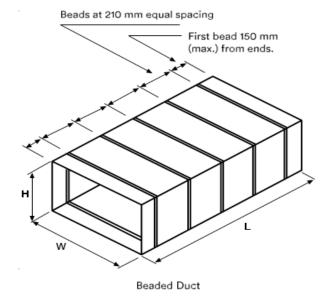
Rectangular ducts can be supplied in either fully assembled form or knocked down form for straight ducts (minimum requirement for assembly of straight ducts on site) while fittings will be delivered fully assembled with factory applied sealant.

Rectangular duct line can be supplied by Galvanized Steel (in accordance with ASTM 653, G90 coating)

Dimensions

All straight ducts are beaded or cross broken (except if ducts are double wall, internally lined, or gauge 18 and heavier). All fittings are cross broken from size 483 mm and above, or beaded on all sizes.

Standard Duct Length: 1200 mm (4 feet)



LINED DUCTS



Description

Lined rectangular duct and fittings are available with an insulating liner faced with a strong, dimensionally stable black Woven Fiber Fabric (WGF) to protect against erosion and microbial growth. This acoustic/thermal liner can be used with air velocities up to 5,000 fpm.

Standard Duct Length: 1200 mm (4 feet)

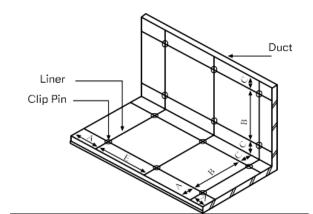
Standard Acoustic/Thermal Insulation:

25mm, 48 kg/m3, WGF facing. Other thicknesses and densities can be supplied on request.

Insulation Edge Coverings:

All insulation edges are covered by galvanized steel channels fixed to duct.

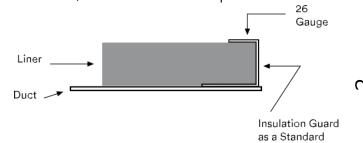
Dimensions



Velocity	Dimensions			
	А	В	С	E
2500 - 0 fpm	76	305	102	457
5000 - 2501 fpm	76	152	102	406

Liner bonded to duct with adhesive and welding pins at approximate centers as shown.

Liner to be 48 kg/m3 (3 lbs. /ft3) density, 25 mm thick, unless otherwise specified.



DOUBLE WALL ACOUSTIC DUCTS



Description

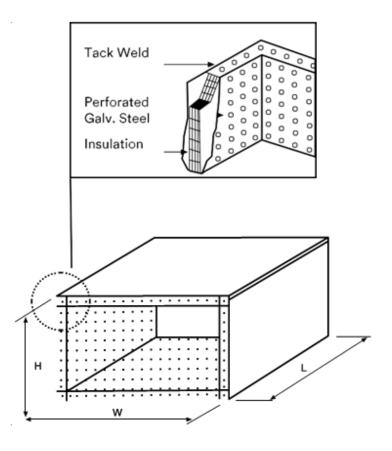
Double wall rectangular duct and fittings provide exceptional noise control in air distribution systems. This double wall, insulated ductwork is constructed of solid metal outer shell and perforated inner shell with a layer of acoustic insulation sandwiched inbetween.

Our standard construction consists of: galvanized steel with a galvanized perforated inner wall and standard acoustic, thermal insulation of 25 mm thickness, 48 kg/m3 density with WGF facing fixed to duct.

Other types of insulation material, density & thickness are available. The outer shell can be supplied in galvanized steel, stainless steel, black steel, aluminum or painted steel while for the inner perforated shell only in galvanized steel or black steel.

Standard Duct Length: 1200 mm (4 feet)

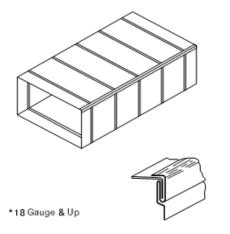
Dimensions

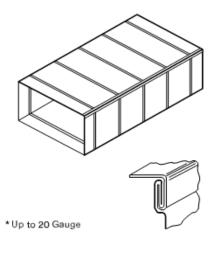


LONGITUDINAL SEAMS

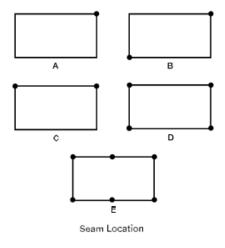
Pittsburgh Lock

Double Corner Seam

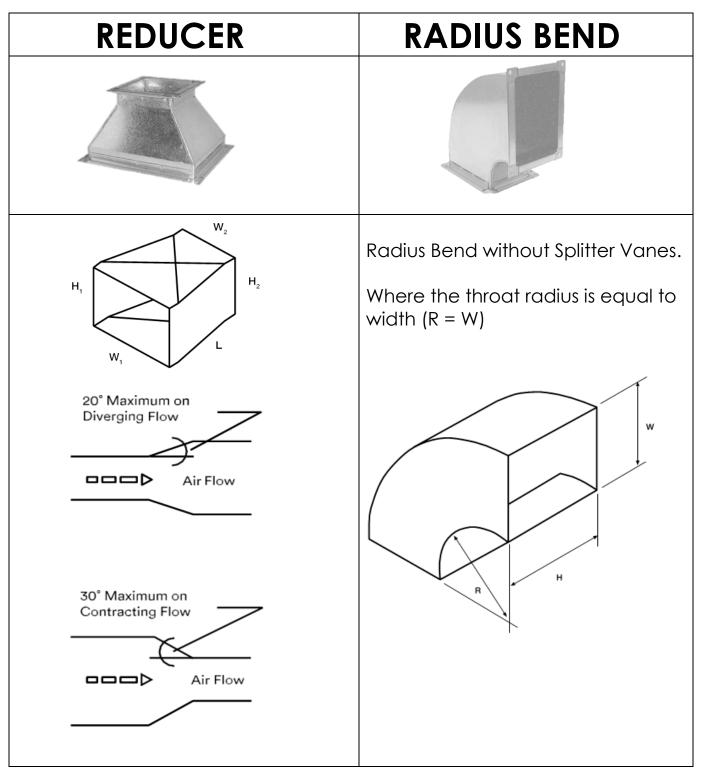




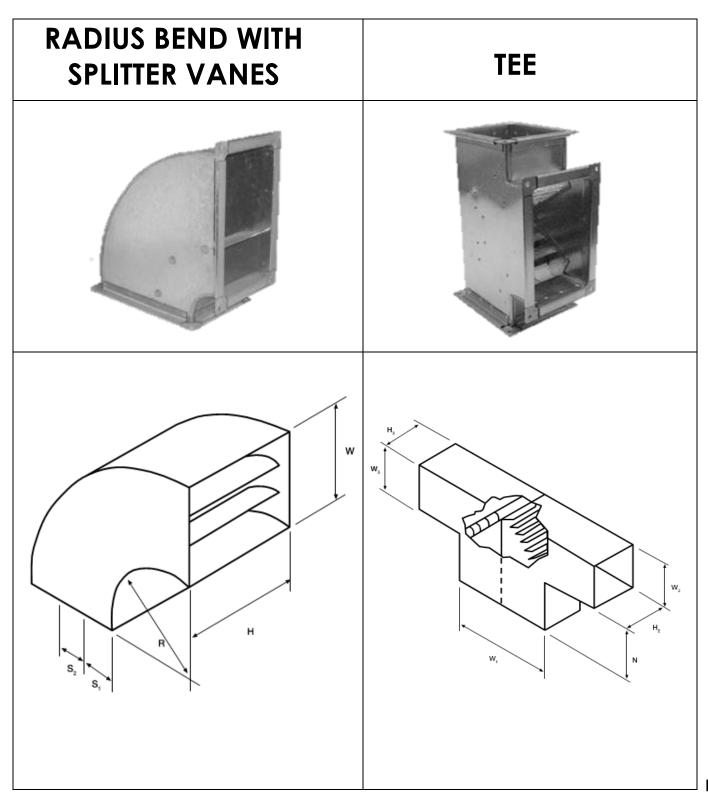
Seam Location

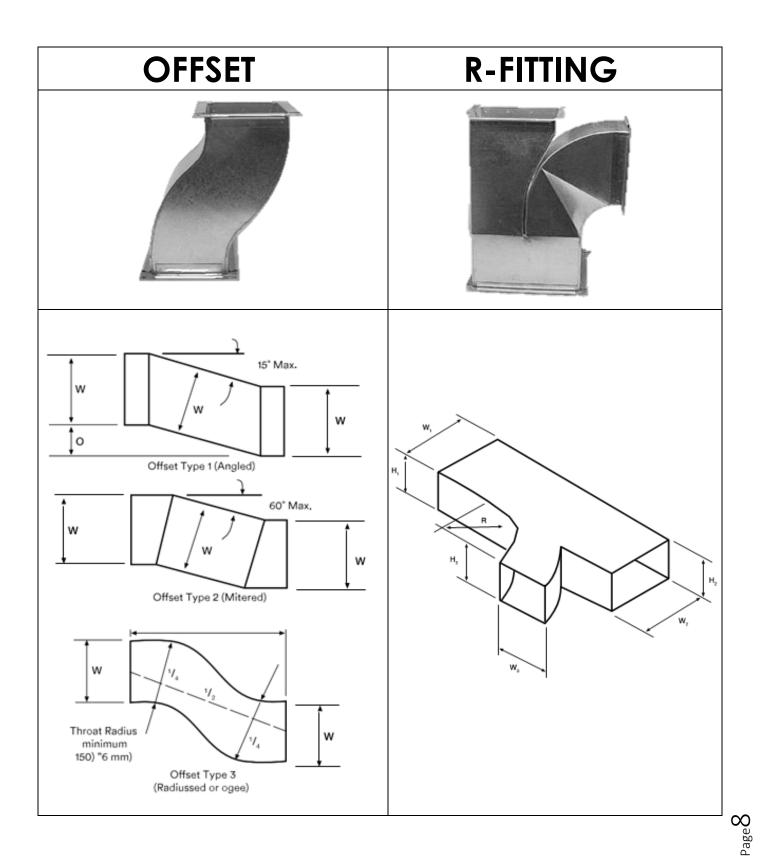


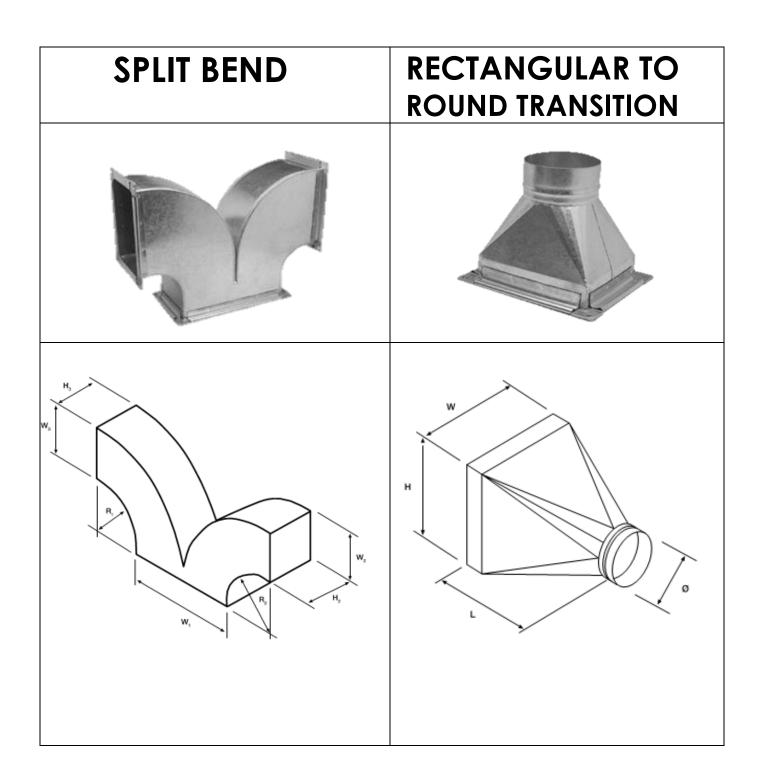
* Seam numbers and locations vary according to joint type and size.

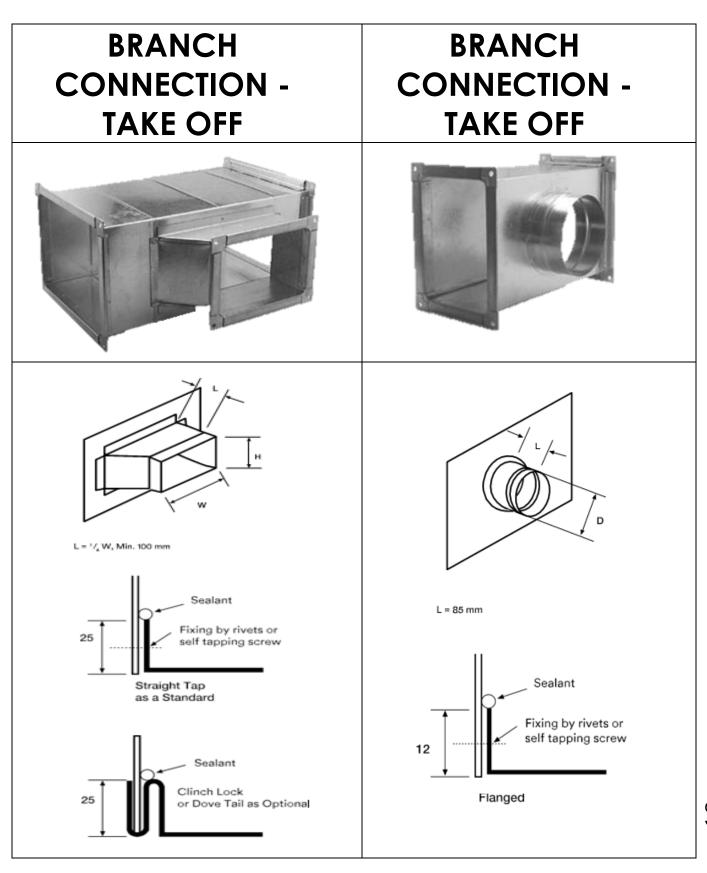


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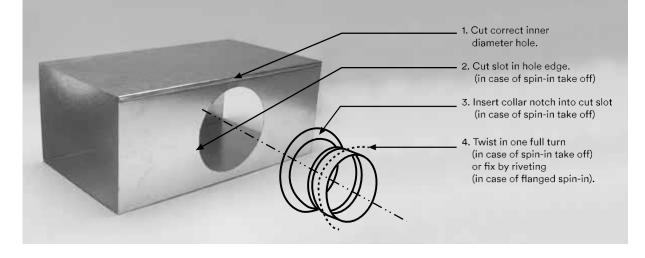




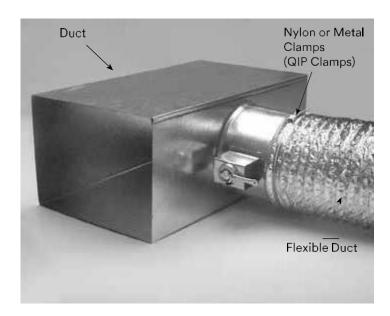
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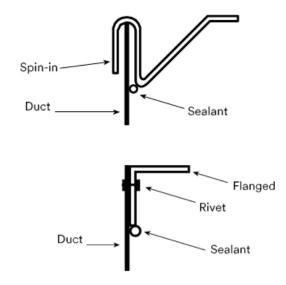
BRANCH CONNECTION - TAKE OFF

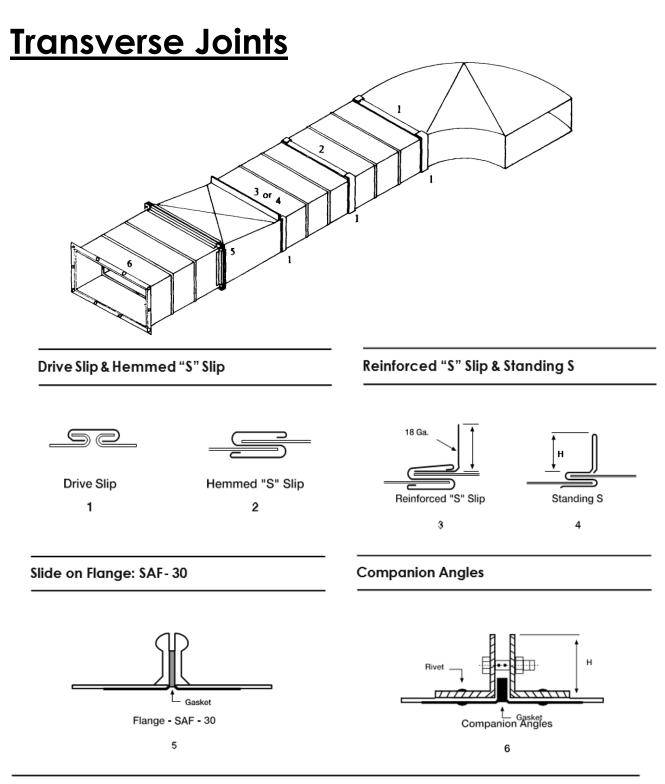
Installation Instructions



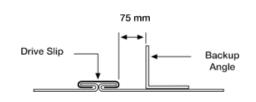
Installation Details: Spin In and Flanged Take Off







Backup Angle for Drive Slip

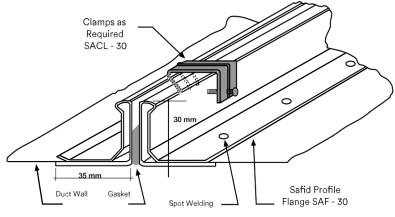


Applications						
Pressure Class	Duct Height	Backup Angle Size				
2" W.G.	458 - 915	25x25x3 mm				
3" W.G.	458 - 559	25x25x3 mm				
4" W.G.	407 - 508	25x25x3 mm				

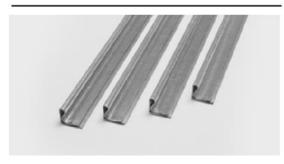
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GASKETS, BOLTS AND NUTS

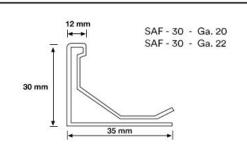
30 Flange Joint System



Slide on Flange: 30





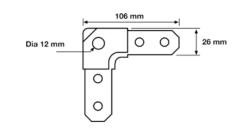


Corner Piece: SACP-30



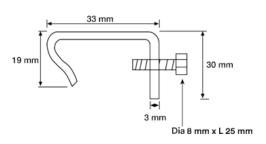


Dimensions



Clamp: SACL - 30, SACL - 35







DUCTWORK CONSTRUCTION SCHEDUL

Galvanized Steel Rectangular Ductworks Construction Schedule 500 & 750 Pa. (2" W.G) Pressure Class (As per SMACNA)						
Maximum duct dimension (mm)	Pressure Class	Longitudinal Connections	Duct Gauge	Intermediate Reinforcement	Transverse Connection	
0 – 550	500 Pa.	Pittsburgh Lock Seam	G 24 (0.6mm)	Not Required	Hemmed "S" slip driver slip	
551 – 750	500 Pa.	Pittsburgh Lock Seam	G 24 (0.6mm)	Not Required	Side on flange 20mm	
751 – 1000	750 Pa.	Pittsburgh Lock Seam	G 22 (0.8mm)	Not Required	Side on flange 20mm	
1001 – 1200	750 Pa.	Pittsburgh Lock Seam	G 22 (0.8mm)	Not Required	Side on flange 30mm	
1201 – 1800	750 Pa.	Pittsburgh Lock Seam	G 20 (1.0mm)	Not Required	Side on flange 40mm	



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