

PRODUCTS





MAIN PRODUCTS



RECTANGULAR AIR DUCT



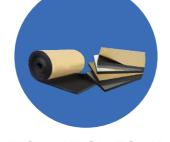
ROUND AIR DUCT



CORNERS & DRIVE SLIP



G.I STEEL COIL ROLL & SHEET



INSULATION FOAM TAPE



ALUMINUM FOIL TAPE

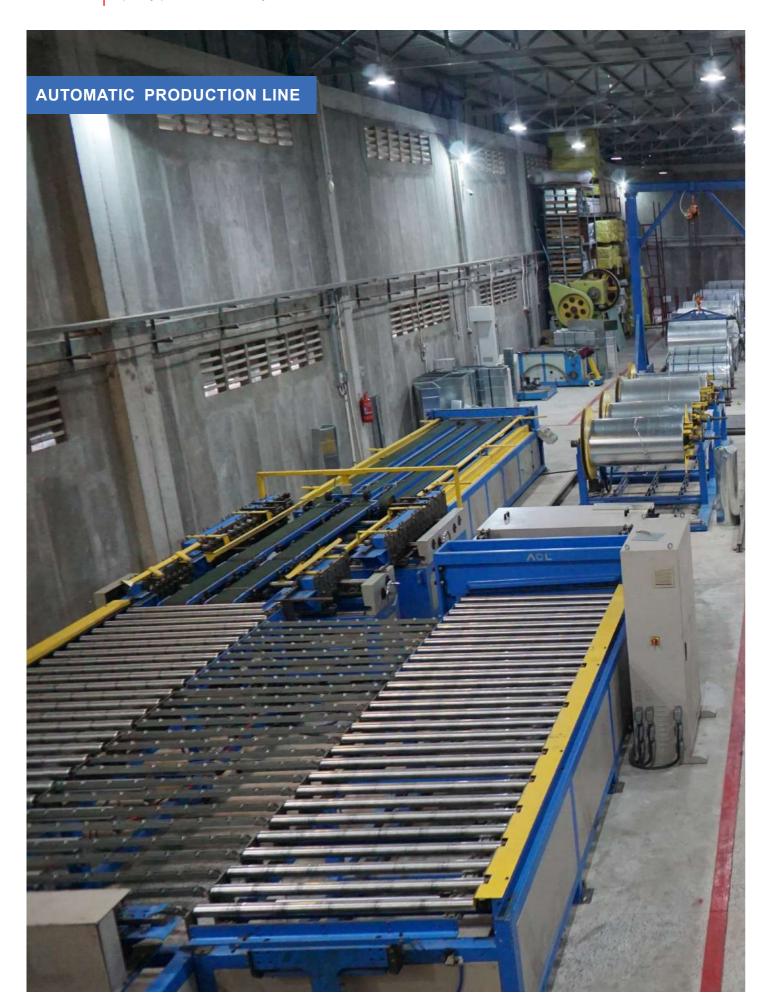


INSULATION FOAM TAPE



CONNECTOR

Product Catalogue | Rectangular Duct & Fittings
Product Catalogue | Rectangular Duct & Fittings



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DUCT INTRODUCTION

A duct system is an assembly whose primary function loss are more related to velocity than to pressure. is to convey air between specified points.

Because total pressure is less downstream than

ASHRA categorizes duct systems as either single path or dual path. Systems should be designed using accepted engineering practice and data such as that in the four ASHRAE Handbooks and the SMACNA HVAC Duct Systems Design manual. A duct system may contain ducts under positive and negative pressure. Air velocities will vary within the system. At coils and filters, the velocity may vary from below 1000 fpm (5m/s) to over 3000 fpm (15m/s). Velocity in duct mains and branches can be at constant (high or low) or varying levels. With the many available systems sizing methods (e.g., equal friction, static regain, velocity reduction, total pressure) and system types, performance cannot be economically optimized unless the designer selects construction details appropriate for the given pressure and velocity.

Generally speaking, duct strength, deflection, and leakage are more functions of pressure than of velocity. In conventional systems, noise, vibration, and friction

loss are more related to velocity than to pressure. Because total pressure is less downstream than upstream, a duct construction pressure classification equal to the fan outlet pressure (or to the fan total static pressure rating) cannot economically be imposed on the entire duct system. Pressure in ducts near room air terminals is nearly always below 1/2" water gage (125 Pa).

For a clear interpretation of requirements for ducts and for economical attainment of performance objectives, it is ESSENTIAL THAT CONTRACT PLANS IDENTIFY THE PORTION OF EACH DUCT SYSTEM TO BE CONSTRUCTED FOR A PARTICULAR PRESSURE CLASSIFICATION OR THAT THE ENTIRE SYSTEM BE ASSIGNED A PRESSURE CLASSIFICATION.



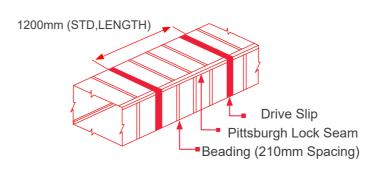


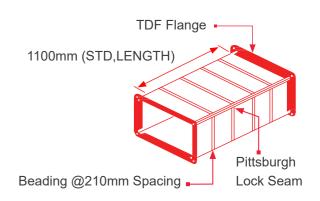


HANGER DIMENSION & RECOMMEND SHEET STEEL THICKNESS				
Dimension of duct (Width size)	G.I Metal thickness (mm)	Steel rod (mm)	Steel Hanger (mm)	Spacingduct (mm)
Up to 600	0.6	8	V-30x30x3	1800
600 to 800	0.8	10	V-40x40x4	1800
850 to 1000	0.8	12	V-50x50x5	1500
1050 to 1800	1	14	U-100x50x5	1500
1850 to 2400	1.2	16	U-100x50x5	1500
Over 2400	1.2 (with reinforcement)	18	U-100x50x5	1500

If no standard required, FAST will fabricate air duct follow SMACNA standard (HVAC duct construction standard metal and flexible, Second Edition - 1995).

DUCT SYSTEM CONSTRUCTION

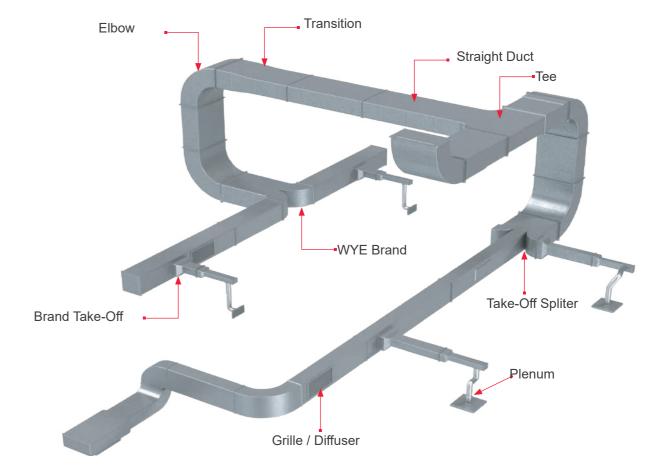




STRAIGHT DUCT SLIP DRIVE CONNECTION

STRAIGHT DUCT FLANGE CONNECTION





RECTANGULAR AIR DUCT SYSTEM

Product Catalogue | Duct introduction





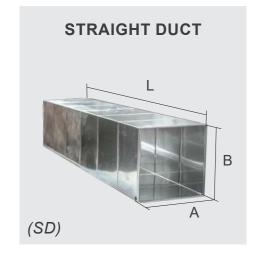
SPECIFICATION

Fabrication standard: SMACNA | DW 144| ASHRAE.

Material: G.I | Aluminium | Black Steel

Joint: Drive Slip | TDF Flange | Pittsburgh Lock Seam | Welded.

Assembly: Pre-Assembly or Full Assembly. Application: HVAC | Ventilation Kitchen Hood



Standard:

L=1200mm For Drive Slip L=1100mm For TDF Flange

Example Order Size

SD: A250 x B250 - L1200

Order size: SD: A x B - L



Order size: RE9: A x B - R

Example Order Size RE9: A100 x B100 - R100



Order Size: RE4: A x B - R

Example Order Size RE4: A250 x B250 - R250



Order size: WY:A x B - C x D - E x

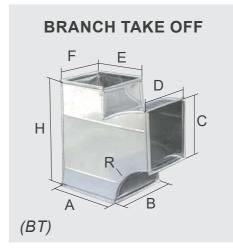
F - R- r

Example Order Size

WY: A200 x B200- C100 x D100 -

E100 x F100

R100 - r100



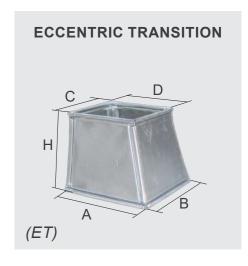
Order size: BT: A x B - C x D

ExF-R

Example Order Size

BT: A250 x B250 - C250 x D200 -

E200 x F200- R100

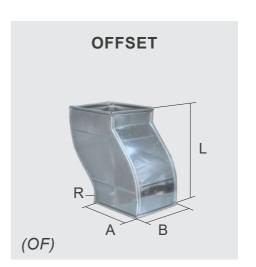


Order size: ET: A x B - C x D - H

Example Order Size

ET: A250 x B250 - C200 x D200

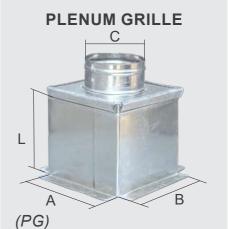
H100



Order size: OF: A x B - L - R

Example Order Size

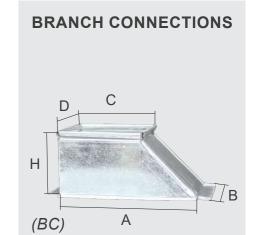
OF: A250 x B250 - L250 R100



Standard: L= 150 mm

Order size: PG: A x B - C - L **Example Order Size**

PG: A150 x B150 - C100 - L150



Order size: BC: A x B - C x D - H

Example Order Size BC: A250 x B200 - C100 x C200

H200

Product Catalogue | Rectangular Duct & Fittings Product Catalogue | Rectangular Duct & Fittings





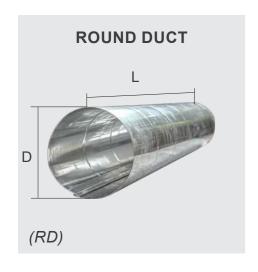
SPECIFICATION

Fabrication standard: SMACNA | DW 144 | ASHRAE.

Material: G.I | Aluminium | Black Steel

Joint: Drive Slip | TDF Flange | Pittsburgh Seam Lock | Welded.

Assembly: Pre-Assembly or Full Assembly. Application: HVAC | Ventilation Kitchen Hood



ROUND TRANSITION (RT)



Standard: L=1200 mm

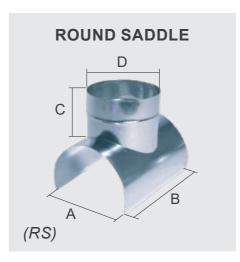
Order size: RD: D - L

Example Order Size RD: D150 - L1200

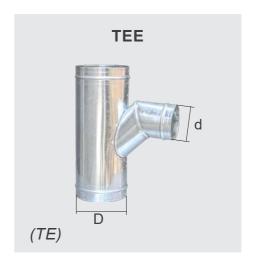
Order size: RT: DxdxL

Example Order Size RT: D100 x d125 x L300 Order size: RC: D - L

Example Order Size RC: D200 - L100



Order size: RS: A x B - C x D **Example Order Size** RS: A150 x B200 - C100 x D150



Order size: TE: D x d

Example Order Size TE: D150 x d100



Example Order Size

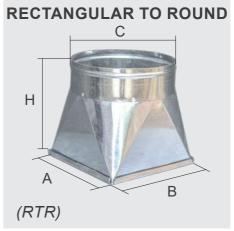
RO:D150 x d150 - H150

Order Size: RO: D x d - H



Order Size: RE: D1 - D2 - R

Example Order Size RE: D150 - d150 - R150



Order size: RTR: A x B - C

Example Order Size RTR: A200 x B200 - C200 H200



Order Size: WY: A - B - H - h

Example Order Size

WY: A100 - B100 H300 x h150

Product Catalogue | Round Duct & Fittings Product Catalogue | Round Duct & Fittings

G.I STEEL COIL ROLL

& G.I STEEL SHEET

Galvanizing, or galvanization, is a manufacturing process where a coating of zinc is applied to steel or iron to offer protection and prevent rusting. There are several galvanizing processes available,

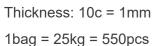
but the most commonly offered and used method is called hot-dip galvanizing.





DRIVE SLIP







Thickness: 10c = 1mm Order Length: 1.2m 1bundle = 25kg = 50length



Thickness: 6c = 0.6mm Order Length: 1.2m 1bundle = 25kg = 80length



Standard: JIS 3302, AS 1397, ASTM A653/A653M, EN 10346 Order size: 300kg - 5000kg



G.I STEEL SHEET	

Order size: 1250mm x 2400mm Size can be special request

PRODUCT SPECIFICATIONS		
Base steel thickness	0.25 mm - 3.00 mm	
Width	860 mm - 1250 mm	
Coating mass weight	(Z80 - Z500g/m² 2mat)	

ET	
100	

GALVANIZING STANDARDS		
Coated standard	Base steel standard	
JIS 3302	SGCC, SGC340,SGC400,SGC440, SGC570	
AS 1397	G250, G300, G350, G450, G550	
ASTM A653/A653M	CSA,CSB, SS33, SS37, SS50, SS60, SS70, SS80	
EN 10346	DX51, S220GD, S250GD, S280GD, S320GD, S350GD, S550GD	

TDF DRIVE CLEAT TOOL



INSULATION

CF - Closed, idea | structure NBR Rubber Foam is a high quality flexible thermal insulation product, idea | for HVAC & R application. It includes pipe and sheet insulations.

The main application is for refrigerant medium system in A/C machine, metal air duct system, chilled and condensed water systems and hot water piping system.





PROPERTIES	DATA	TEST METHOD
Density	40-90 kg/m3 250 - 561 lbs / ft3	ASTM D1667
Thermal conductivity	W/m.k (BTU.in/ft2 °F)	
-20°C	0.0310 (0.225)	ASTM C518
0°C	0.0340 (0.240)	
40°C	0.0380 (0.260)	
Water Vapor Permeability	1.16x10-13 (0.08) s.m.Pa (perm-in)	ASTM E96
Moisture Resistance	>= 7000	
Water Absorption(%)	>= 0.2 (by volume)	
Flammability and Smok developed	25/50	ASTM E84/ULC S102
	Class 0	BS 476 Part 6 & 7
Dimensional Stability	0 to 7%	ASTM C534
Temperature Range	-50 ~ + 105°C (-58 ~ +221 °F)	

ТНІСИ	(NESS	WIDTH	LENGTH	LENGTH
Inch	mm	m	m	PE Bag
1/8	3			
1/4	6	1.0, 1.2		
3/8	9			
1/2	13		10	1 roll/Bag
3/4	19	1.0, 1.2, 1.5		
1	25			
1 1/4	32			
1 1/2	38	1.0, 1.2	4	5 sheet/Bag
2	50	1.0, 1.2	-	o oncorpag

ACOUSTIC INSULATION

Is engineered and designed specifically for air - conditioning units, automotive, generator shell, generator room sound insulation.



PYSICAL PROPERTIES	DATA
Density	45 - 60 kg/m³
Structure	Open cell structure
Patterns	Waved, Plain
Thickness	6, 10, 15, 20, 25mm
Size	1m x 1m, 1m x 1.5m, 1m x 2.0m
Package	Plastic bag or Paper carton

Product Catalogue | Insulation Product Catalogue | Insulation





INSULATION FORM TAPE

INSULATION FORM TAPE

Application: Sealing and insulating between material joints

PACKING		
Size	Rolls/Carton	
3mm x 50mm x 10m	60	



FLEXIBLE AIR DUCT WITH INSULATION

Flexible Duct is a very strong fully flexible compressible light weight air duct which is widely used in Air Conditioning and Ventilation Systems for Commercial, Industrial and Residential applications. It is extremely durable and will maintain dimensional stability when fully extended.

PROPERTIES

Material	Aluminum foil/Polyester film/Laminated x 2 ply/ Spring copper wire/Glass Wool	
Glass Wool Density	32Kg/m3	
Aluminum Glue Adhesive	Heat- resistant Glue	
Aluminum thickness	0.02 ~ 0.03 mm	
Application temperature	-30°C ~ +140°C	
Pressure	250mm WG (2500pa)	
Air Speed Max	25m/s	
Inner Diameter	D100 - D500	
Length	8m - 20m	
Application	 No fire ignition Water proof High heat resistance (Heat Range -4 - + 150) Used in hot and cool air system in buildings, apartments, offices, hotels, hospitals, factories, workshops. 	



ALUMINUM FOIL TAPE

Application: Sealing joing joints and seams against moisture and vapor on foil jacketing, or used in refrigeratores, healters, etc.

ALUMINUM FOIL TAPE SIZE		
Thickness	35mic	
Width	48mm	
Length	25m	
Pack	36 rolls/1carton	



FLEXIBLE AIR DUCT WITHOUT INSULATION

PROPERTIES		
Material	Aluminum foil/Polyester film/Laminated x 2 ply/ Spring copper wire/Glass Wool	
Aluminum Glue Adhesive	Heat- resistant Glue	
Aluminum thickness	0.02 ~ 0.03 mm	
Application temperature	-30°C ~ +140°C	
Pressure	250mm WG (2500pa)	
Air Speed Max	25m/s	
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Product Catalogue | Insulation Product Catalogue | Insulation

FAST

CANVAS DUCT

- The surface is made of polyurethane layer fiber cloth, which has been tested for high temperature resistance for thousands of times.
- The accessories of this product are tightly combined, with good air tightness and oxidation resistance this
 product has good plasticity, can be folded into the desired
- temperature 20°C 60°C.



Construction

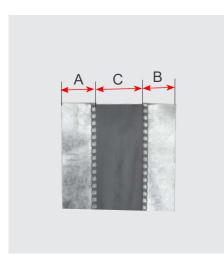
Frame & inner: Sheet iron + PVC Flame retardant polyester cloth.

Surface Finish

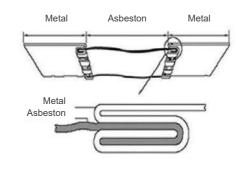
· Gavanize and antioxidant treatment .

Material thickness

- Algam: (Metal): 0.5mm / cloth: 0.45mm (PVC gray)
- Algam: (Metal): 0.5mm / cloth: 0.45mm (Fiberglass grey)
- Algam: 0.5mm / cloth: 0.45mm (Silica red).



Drawing



SPECIFICATION				
	First algam length (A)	Cloth length (C)	Second algam length (B)	Roll
Specification	45mm	60mm	45mm	L =25m
	45mm	100mm	45mm	L =25m

CANVAS FIRE RATED

The surface is made of polyurethane layer fiber cloth, which has been tested for high temperature resistance for thousands of times.

- The accessories of this product are tightly combined, with good air tightness and oxidation resistance this
 product has good plasticity, can be folded into the desired
- temperature 250°C.



Construction

• Frame & inner: Sheet iron + PVC Flame retardant polyester cloth.

Surface Finish

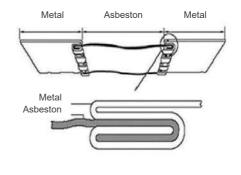
Gavanize and antioxidant treatment.

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Drawing



SPECIFICATION				
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Specification	45mm	60mm	45mm	L =25m
	45mm	100mm	45mm	L =25m

8 Product Catalogue | Convas Duct Connector
Product Catalogue | Convas Duct Connector

DUCT SEALANT

Duct Sealant is agray water-based duct sealant used in medium and high-pressure duct system. TA102 is a special formulation which provides permanet flexibility, excellent water-resistance and superior sealing strength.



Features

- Low VOC and Low ODOR
- Excellent workability
- · Non corrosive towards metals
- Slump resistant
- · High solid content
- · Low shrinkage superior sealing strength.

PACKING		
600ml	White, Black, Grey etc.	20 sausages
300ml	White, Black, Grey etc.	24 cartridges
280ml	White, Black, Grey etc.	24 cartridges

TECHNICAL DATA		
Appearance	Paste	Typical application
Density	1.63g/cm³	
Skin Time	7~10min	
Curing time	3.5mm/24h	
Elongation at break	250%	HVAC duct system
Application temperature range	5°C to 40°C	
Service temperature range	-20°Cto 75°C	
Hardness Shore A	32	

FIRE RATED ACRYLIC SEALANT

Fire rated acrylic sealant is a single component, non-sage, fire rated acrylic base lealant. It is acrylic based sealing compound specifically manufactured for sealing low movement interior joints in masonry and plasterboard to provide a fire barrier for periods up to 4 hours.



Features

- More than 4 hours of fire resistance without using any backfilling materials in
- Certain conditions
- Good unprimed adhesion to most common construction substrates
- No-slump
- Can be painted over using water based paints
- Easy to apply

PACKING		
600ml	White, Black, Grey etc.	20 sausages
300ml	White, Black, Grey etc.	24 cartridges

TECHNICAL DATA		
Appearance	Paste	Typical application
Density	1.63g/cm³	
Skin Time	12min	
Curing time	2day	HVAC duct system Construction joints
Elongation at break	100%	Metal pipes HVAC penetration
Application temperature range	5°C to 40°C	
Service temperature range	-20°Cto 75°C	
Hardness Shore A	40	

Product Catalogue | Convas Duct Connector

Product Catalogue | Convas Duct Connector

NEUTRAL WEATHERPROOF SILICONE SEALANT

TNS-731 NEUTRAL WEATHERPROOF SILICONE SEALANT is a one-part, durable, neutral-cure, architectural grade sealant. With excellent adhesion for use on a wide variety of materials in new or renovated weatherproofing applications.



Features

- Exellent adhesion to non-porous construction material. No need to ues primer for most building materials such as glass, coated class, painted metal.
- Neutral curing, suitable for most building materials without adverse reactions or corrosion.
- Excellent UV, weathering and hight temperature resistance, forming astrong and elastic silicone rubber after curing, not affected by rain,snow
- · High Movement capabliby and permanent flexiblity.

	PACKING	
600ml	White, Black, Grey etc.	20 sausages
300ml	White, Black, Grey etc.	24 cartridges
280ml	White, Black, Grey etc.	24 cartridges

TECHNICAL DATA		
Appearance	Paste	Typical application
Density	1.63g/cm³	
Skin Time	7~10min	
Curing time	3.5mm/24h	
Elongation at break	250%	HVAC duct system
Application temperature range	5°C to 40°C	
Service temperature range	-20°Cto 75°C	
Hardness Shore A	32	

INSULATION GLUE

A black, air-drying contact adhesive that is excellent for joining seams and butt joints of TPFLEX Pipe and Sheet Insulations

on the 2 joining surfaces



- evaporate about 5-30 minutes depending on the glue content until the surface is dry and sticky
 - Minimum 5 minutes: non-absorbent or non-permeable surfaces such as PVC, PPR, steel pipes.,

Surfaces of materials: dry, clean and free from dust, sand, oil, grease

Stir TPGLUE well and use short hair brush to apply a layer of TPGLUE

· After applying TPGLUE on the surface, wait for the solvent to

- Minimum 2 minutes: with absorbent or permeable surfaces such as TPFLEX insulation.
- Press the surface to get the best bonding.

Time required for 2 surfaces to be bonded:

PACKING		
CODE	SIZE	PACKING
TPGLUE 700	700 GR/CAN	12 cans/ Carton
TPGLUE 3500	3500 GR/Gallon	6 Gallons/ Carton

SPECIFICATION		
Material	Polychloroprene	
Appearance	Black viscous liquid	
ViscosIty	2,000 - 3,000 cPs.	
Solid content	24.00 - 26.00 %	
High heat resistance	Approx. over 100 oC	
Open tack time	Short	
Application temp	Room temp	
Converage (apply adhesive both surfaces)	200 - 220 g/m ²	

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