

About Us

Asawa Insulation Pvt Ltd (AIPL), established in 2010, has emerged as an eminent name in manufacturing and supplying of HVAC Products & accessories. Our versatile product range includes Pre-insulated (PIR) Panels & Accessories, GI Metal Ducts, Spiral / Plain Round & Flat Oval Ducts, Cable Trays, Pre-insulated Flat Oval and Hexagon Ducts with supporting accessories like Anchor Fasteners, Threaded Rods, C Channels, Wire supporting like Gripple and GPL etc.

The Products are crafted utilizing superior quality raw material with Fully Automated Operations. Being resistant to wear & tear, our product range conforms to higher tensile strength and longer operating life. The products are designed to perform efficiently under varying temperature conditions. Supported by large and integrated manufacturing unit, we are capable to cater to bulk orders efficiently.

Our Patrons

Since inception, we always strive to meet and excel our customer's demands and specifications. Because of our commitment to novelty, we are able to manufacture and deliver high quality products on time and exceptional services to our strong client base in the market.

Our Technology

Our manufacturing unit is equipped with modern machinery and equipments backed by a dynamic, knowledgeable & experienced manpower. We have a separate R&D and Quality Control department to meet the requirements of innovative quality products.

Quality Analysis

AIPL is an ISO 9001:2008 quality certified manufacturer using superior quality raw materials from reputed vendors. Our Quality Control department inspects the quality of products at various stages of production and finally delivers the best quality product.



using fully automated latest Auto

Fold Duct Line supported by Automatic Both End Corner Inserter, Pittsburg Lock Former, Plasma Arc Cutting Machine, Auto Seaming Machine etc. which enables us to handle both small and large scale jobs efficiently with consistent quality.

Our Range of Metal Ducts include Galvanized Iron (GI)

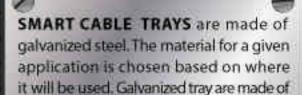
Duct, Stainless Steel (SS) Duct and Aluminum Duct



We ventured into manufacturing of Spiral/Plain Round & Flat Oval Ducts under the brand name of

SMART SPIRAL DUCTS

We manufacture duct from diameter 100mm to 2000mm with maximum length of 4000mm (one of its kind in India) through fully Automated machines which provides better reinforcement for high performance.





pre-galvanized sheet, hot-dip galvanized after fabrication. We also supply customised solution for the specific requirement of the client.

Rectangular Metal Ducts

SMACNA Standard for Rectangular Ducts













TOF FLANGE SYSTEM

TDF is a 4 bolt duct connection system which consists of a Flange profile which are roll formed on to duct at both ends. TDF flanges eliminates the need for additional internal sealing around the edges of the duct there by saving labour and material. A recessed groove on the flange and radial groove on corner pieces are provided for proper gasket fitting thus maintaining high quality assembly.

CAS

C-Cleats also called as drive cleats and S-Cleats also known as slip cleats which are designed to work on smaller size applications.

C & S type of duct are generally fabricated with gauges of 26G and 24G and are used for low pressure ducting system.

These Flanges are economical as the overall system weight is reduced.

MS ANGLE FLANGE

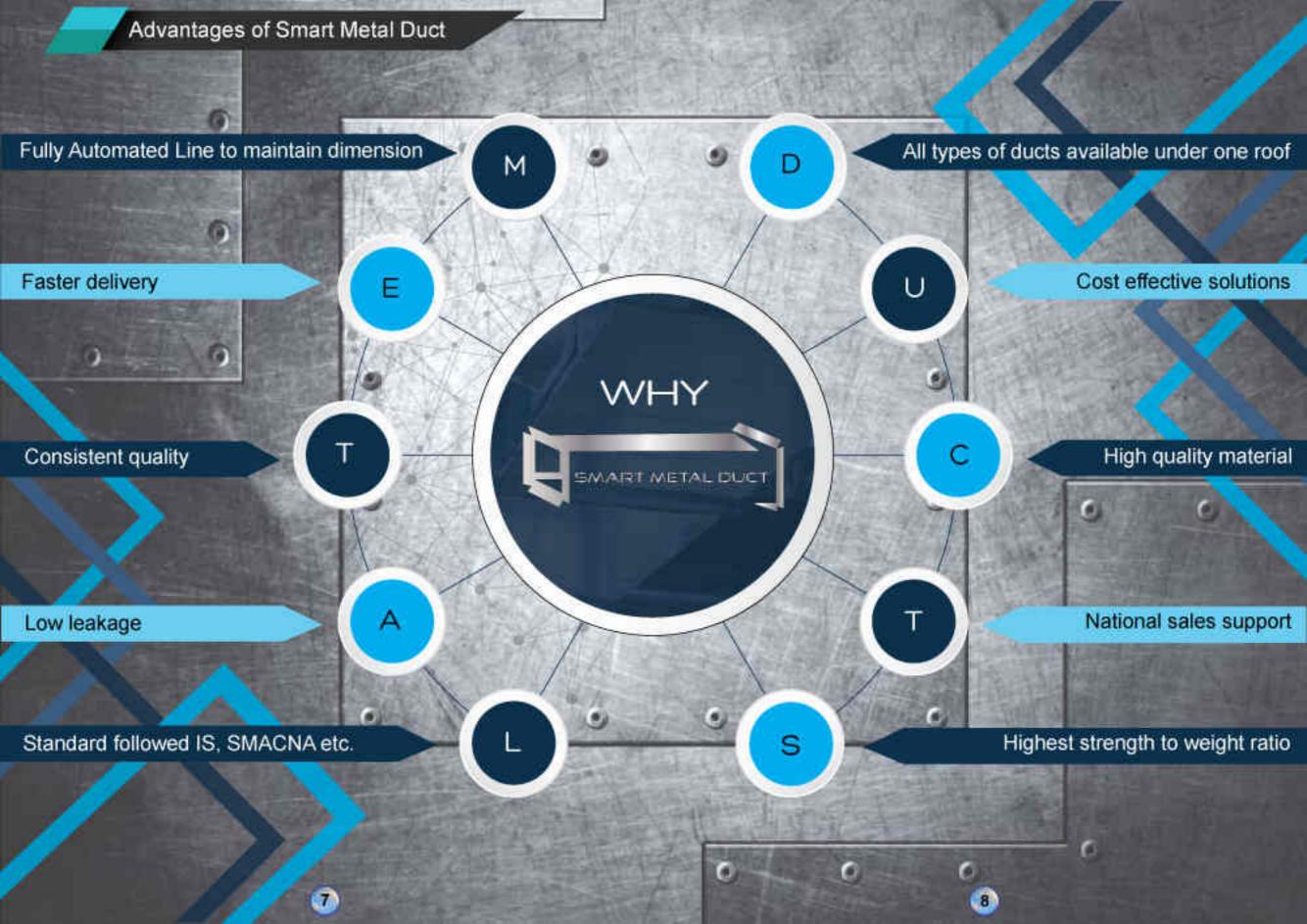
MS Angle Flanges are put additionally over GI duct shell to increase the rigidity of the duct.

AIPL manufactures these GI Ducts which are suited to join with MS Angle Flanges at site.

This kind of system are used in the areas which requires lowest leakage factor and maximum rigidity.

	PRESSURE CLASS (IN W.G.)						
DUCT	POSITIVE OR NEGATIVE						
	1/2"	7"	2"	3"	4"	6"	10"
8" \DN	26	26	26	24	24	24	22
9, 10"	26	26	26	24	22	20	18
11, 12"	26	26	24	22	20	18	18
13, 14"	26	24	22	20	18	18	
15, 16"	26	22	20	18	18	16	
17, 18"	26	22	20	18	16		⊔ g
19, 20"	24	20	18	16		J	
21, 22"	22	18	16	16			
23, 24"	22	18	16	16			
25, 26"	20	18	REINFORCEMENT IS				
27, 28"	18	16					
29, 30"	18	16					
31-36"	16						





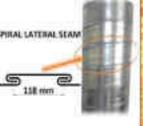
Brief About Spiral Duct

Spiral ducts are rolled spirally mainly from GI coil by Special Duct Forming machine with strong spiral seams providing reinforcement to comply with SMACNA and ASHRAE standards. It can also manufacture spiral duct of other material like. Aluminium and Stainless Steel.

Sizes for Spiral Duct

AIPL manufactures spiral duct from 100 mm to 2000 mm (4 inch to 80 inch) of any diameter with material thickness from 0.4 mm to 1.8 mm for GI (28 gauge to 16 gauge) and 0.5 mm to 1.2 mm for SS (26 gauge to 18 gauge). General diameter to thickness relation is as below however we can produce as per customer requirement

						The second second second	
	DIAN	NETER	GI DU	ICT KNESS	GI DUCT	FITTING ESS	1
	INCH	MM	MM	GAUGE	MM	MM	59
á	Upto 10"	upto 250	0.40	28	0.50	26	
۴	11" to 14"	275 to 350	0.50	26	0.60	24	
ř	15" to 24"	350 to 600	0.60	24	0.80	22	-
ř	25" to 50"	625 to 900	0.80	22	1.00	20	
	37" to 50"	925 to 1250	1.00	20	1.20	18	
K	51 - Above	1275 - Above	1.20	18	1_80	16	L



Brief About Flat Oval Duct

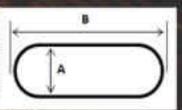
Flat Oval ducts combine the advantages of round duct and rectangular duct because it may fit in spaces where there is constraint of sufficient head room for round duct.

Sizes for Flat Oval Duct

AIPL manufactures flat duct height (A) from 150 mm to 600 mm (6 inch to 24 inch) and width (B) from 450 mm to 1700 mm (18 inch to 68 inch) of various sizes with material thickness from 0.4 mm to 1.8 mm for GI (26 gauge to 16 gauge) and 0.5 mm to 1.2 mm for SS (26 gauge to 18 gauge). Flat oval duct single piece length shall be upto 3000 mm.

Thickness of Flat Oval ducts as per SMACNA - 1985 is as per below table:

MAJOR / WIDTH "	DUCT THICKNESS		DUCT FITTING THICKNESS		
INCH	MM	GAUGE	MM	GAUGE	MM
Upto 24"	Upto 600	24	0.63	20	1.00
25" to 36"	625 to 900	22	0.80	20	1.00
37" to 48"	925 to 1200	22	0.80	18	1.25
49" to 60"	1225 to 1500	20	1.00	18	1,25
61" to 70"	1525 - 1750	20	1.00	16	1.60
51"-Above	1275 - Above	18	1.20	16	1,60



Double Wall Pre-insulated Spiral / Oval Duct

AIPL also manufactures SMART double wall Pre-Insulated Spiral and Flat Oval ducts by using PiR foam, fibre glass or mineral wool as an insulation material between double wall as per the requirement of the customer.



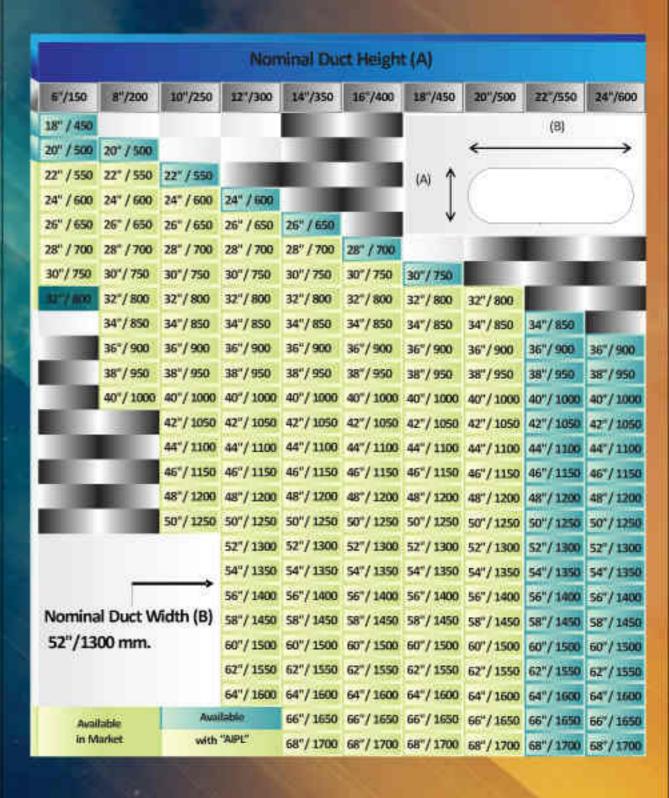


Accoustic Insulated Spiral / Flat Oval Ducts

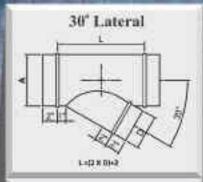
In acoustic insulated double wall Spiral / Flat Oval ducts, the fibre glass or mineral wool is used which acts as acoustic medium and results in sound transmission loss. A metal mesh liner is used inside the duct to hold acoustic material within the inner wall of duct. Acoustic perforations are standard 10 % to 13 % of open area, larger perforations are available on request.

Advantages of Spiral Duct Less Material Waster Wide Range of States A

Standard of Flat Oval Duct



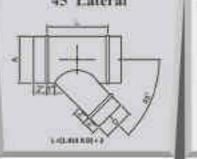
Typical Duct Pieces

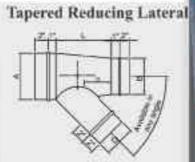


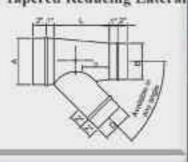
Reducing Airflow Tee



Concial Reducing Tee

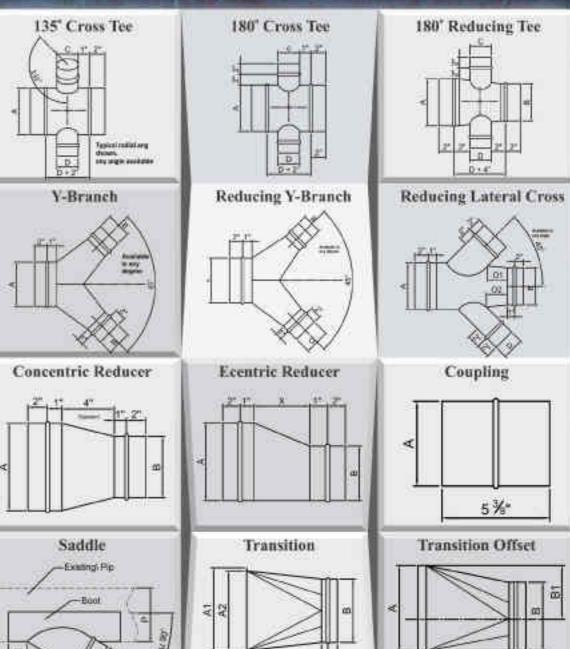


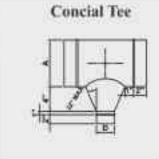


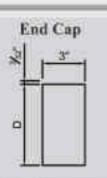






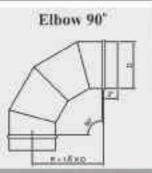






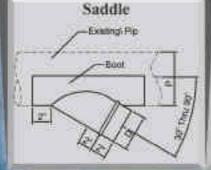


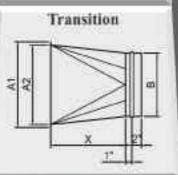
Reducing Tee

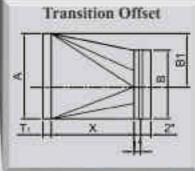












Smart Metal Cable Tray



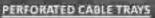
RANGE OF PRODUCTS:

- Perforated Cable Trays
- Ladder Type Cable Trays
- Cable Tray Accessories
- Cable Tray Supports



MATERIAL OF CONSTRUCTION (1.6-2.5 MM)

- # CRCA (IS 1079)
- M.S. (Mild Steel) Hot Rolled (IS 513)
- Pre-galvanized M.S. (Mild Steel)
- Hot Dip Galvanized (80 100 Microns)
- Aluminium



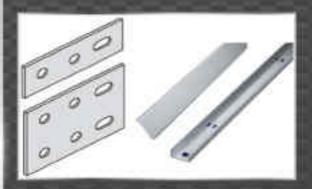


DESCRIPTION	LIGHT DUTY	MEDIUM DUTY
Tray Width (mm)	75, 100, 150, 300, 450 & 600	75, 100, 150, 300, 450 & 600
Length (mm)	2,500	2,500
Thickness (mm)	1.2/1.5/1.6	2.0/2.5
Slot Size (mm)	20 x 10	20 x 10
Tray Height (mm)	25/50	50/75

DESCRIPTION	LIGHT DUTY/ HEAVY DUTY
Tray Width (mm)	150, 300, 450, 600, 750, 900
Length (mm)	2,560
Slot Size (mm)	20 x 10
Tray Height (mm)	150/120/90/75/50



COUPLERS & RACEWAY/CABLE TRUNKING



CABLE TRAYS COVERS & C-CHANNELS



Asawa Insulation Pvt. Ltd. is always committed to provide its customers with superior products ensuring best quality. We also supply customized products to suit the specific needs of our clients.

Supporting & Accessories

Threaded Rods available in Thickness of 6mm, 8mm, 10mm.





C Channels of Thickness 0.5mm - 1.2mm

Wire supporting System "Gripple"





Wire supporting System "GPL"

C Clamp for Round & Flat - Oval Duct





Anchor Fasteners

GI Corners





Nut, Bolt and Washers





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