



Expertise to rely on

HOLLOW PROFILE
DUCTS

RECTANGULAR
SPIRAL ROUND
FLATOVAL

GALVANISED STEEL (GSS) | MILD STEEL (MS) | STAINLESS STEEL (SS) | ALUMINIUM

An ISO 9001:2015 Certified Company



RECTANGULAR DUCT - RGST

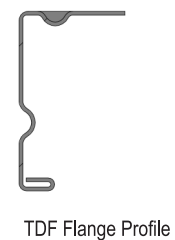
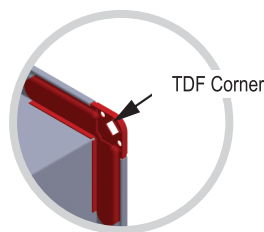
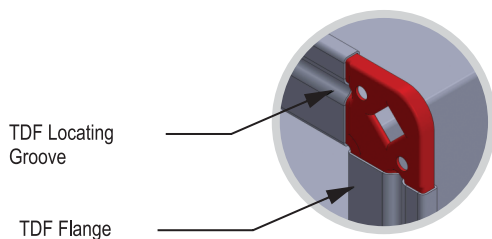
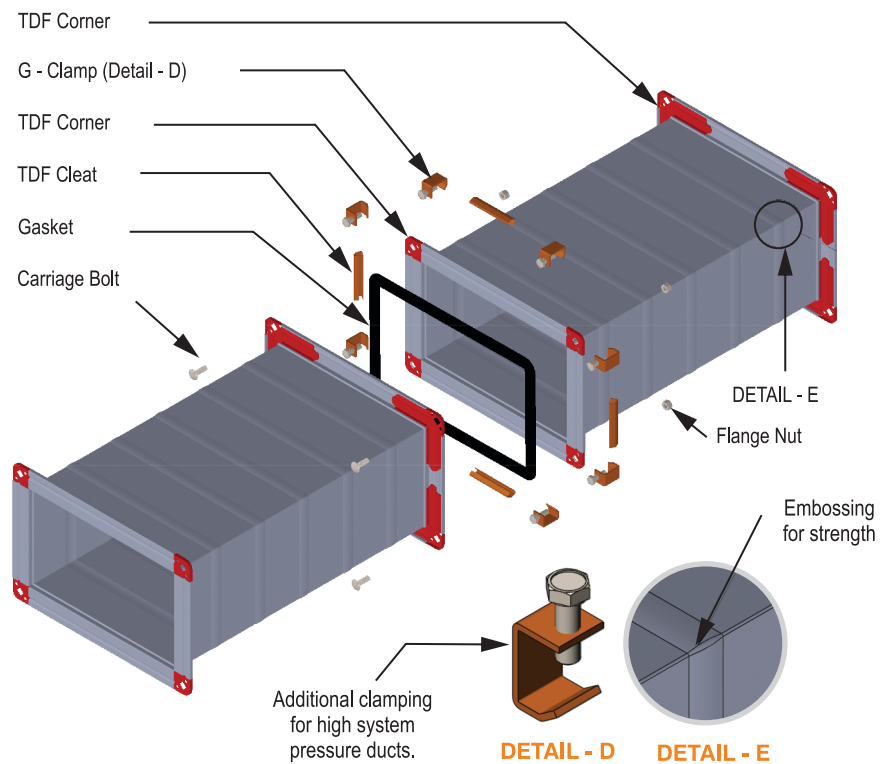
Rectangular Galvanised Steel Sheet Duct - TDF (RGST):

VEDHA Ducts have specially Designed 32mm wide Transverse flange with specially designed groove for better strength.

DUCT SCHEDULE				
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
26 G	Galvanised Steel Sheet conforming to IS:277 2018 of 120/180/275 GSM	Pittsburgh Lock	TDF / C&S Cleat	4 Ft
24 G		Pittsburgh Lock	TDF / C&S Cleat	4 Ft
22 G		Pittsburgh Lock	TDF	4 Ft
20 G		Pittsburgh Lock	TDF	4 Ft
18 G		Pittsburgh Lock	TDF	4 Ft

VEDHA TDF Jointing System

VEDHA Ducts have specially Designed 32mm wide Transverse flange with specially designed groove for better strength.



RECTANGULAR DUCT - RGST

TECHNICAL MODEL DATA (RGST)

1.	Type	Factory Fabricated Ducts
2.	Applicable standard	SMACNA & IS Standards
3.	Make & Origin	Vedha, India
4.	Material specification	Galvanised Steel Sheet conforming to IS:277 2018, of finish Galvanised with 120 / 180 / 275 GSM
5.	Design Highlights	
	A. Profile	5 embossing per 4-feet span provides better strength and rigidity.
	B. Longitudinal Seam	Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles and Leak-proof locking.
	C. Transverse Flange	<p>Transverse Duct Flange (TDF) - 32mm wide with specially designed groove for better Air Leak Proofing.</p> <p>A recessed groove on flange & radial groove on corner pieces (TDF Flanges) for proper gasket seating.</p> <p>TDF Flange design suitable for Cleat fixing, as well as additional clamping for high system pressure ducts.</p>
6.	TDF System Components	
	A. TDF Corners	TDF corners manufactured in fully automated production line with High end special tooling and superior metals offer good strength to the flange while jointing.
	B. Bolt & Nut	Electroplated High Tensile Carriage Bolt & Flange Nut of size M10.
	C. Gasket	Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing
	D. TDF Cleat	Machine made TDF Cleat from 22G G.S.S for better strength and Locking of TDF Flange.
	E. Sealant	Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.
6.	Special Note	For Duct Size < 250mm, TDF is not possible, instead C & SS Transverse Jointing is Recommended
7.	TDF Cleats Usage Instructions	TDF Cleats should be fixed at max. 150 mm distance from the duct corner, and a centre distance of 250 mm to be maintained between cleats for ducts up to 3" w.g. static.
		For up to 1" WG Pressure Ducts - Cleats shall be used .
		For more than 1" WG Pressure Ducts - Cleats shall be used with appropriate Sealant Applied throughout the joint
		For more than 3" WG Pressure Ducts – In addition to fixing TDF Cleats, clamping of the flanges is recommended.

RECTANGULAR DUCT - RGST

Rectangular Galvanised Steel Sheet Duct - TDF (RGST):

LONGEST DIMENSION OF DUCT (MM)	SMACNA STANDARD FOR SELECTION OF TDF DUCT GAUGES FOR 4 FEET SPACING											
	DUCT PRESSURE INCH W.G (PASCAL)											
	1" (250) *		2" (500) **		3" (750) ***		4" (1000)		6" (1500)		10" (2500)	
	Gauge	Transverse Joint	Gauge	Transverse Joint	Gauge	Transverse Joint	Gauge	Transverse Joint	Gauge	Transverse Joint	Gauge	Transverse Joint
Upto 200	26	TDF	26	TDF	26	TDF	26	TDF	26	TDF	26	TDF
230 - 250	26	TDF	26	TDF	26	TDF	26	TDF	24	TDF	24	TDF
251 - 300	26	TDF	26	TDF	26	TDF	26	TDF	24	TDF	24	TDF
301 - 350	26	TDF	26	TDF	26	TDF	26	TDF	24	TDF	22	TDF
351 - 400	26	TDF	26	TDF	26	TDF	26	TDF	24	TDF	20	TDF
401 - 450	26	TDF	26	TDF	26	TDF	26	TDF	24	TDF	20	TDF
451 - 500	26	TDF	26	TDF	24	TDF	24	TDF	24	TDF	20	TDF
501 - 550	26	TDF	26	TDF	24	TDF	24	TDF	22	TDF	20	TDF
551 - 600	26	TDF	26	TDF	24	TDF	24	TDF	22	TDF	18	TDF
601 - 650	26	TDF	26	TDF	24	TDF	22	TDF	22	TDF	18	TDF
651 - 700	26	TDF	26	TDF	24	TDF	22	TDF	20	TDF	18	TDF
701 - 750	26	TDF	24	TDF	24	TDF	22	TDF	20	TDF	18	TDF - JTR
751 - 900	26	TDF	24	TDF	22	TDF	20	TDF	18	TDF	18	TDF - JTR
901 - 1000	24	TDF	22	TDF	20	TDF	18	TDF	18	TDF - JTR	18	TDF - JTR
1001 - 1200	24	TDF	20	TDF	20	TDF - JTR	18	TDF - JTR	18	TDF - JTR		
1201 - 1300	22	TDF	20	TDF - JTR	18	TDF - JTR	18	TDF - JTR				
1301 - 1500	22	TDF	20	TDF - JTR	18	TDF - JTR	18	TDF - JTR				
1501 - 1800	22	TDF - JTR	20	TDF - JTR	18	TDF - JTR						
1801 - 2100	20	TDF - JTR	20	TDF - JTR								
2101 - 2400	18	TDF - JTR	18	TDF - JTR								
2401 - 2700	18	TDF - JTR										

• JTR - Joint Tie Rod

• HVAC Duct Construction Standards Metal and Flexible, Third Edition - 2005

DUCT LEAKAGE CLASS

- Leakage levels applicable as per SMACNA standard,
- All joints are machine made and closed with high end pneumatic presses.
- VEDHA Ducts ensure the leakage levels are well within the standard limits, thus ensuring less wastage of energy and conservation of resources.

SMACNA STANDARD APPLICABLE LEAKAGE LEVELS

Test pressure	Leakage Class	Max. Permissible leakage (CFM) / 100 sq.ft duct area
0.5" W.G.	24	15.3
1" W.G	24	24
2" W.G	24	37.7
3" W.G	12	24.5
6" W.G	6	19.2

RECTANGULAR DUCT - RGSAF

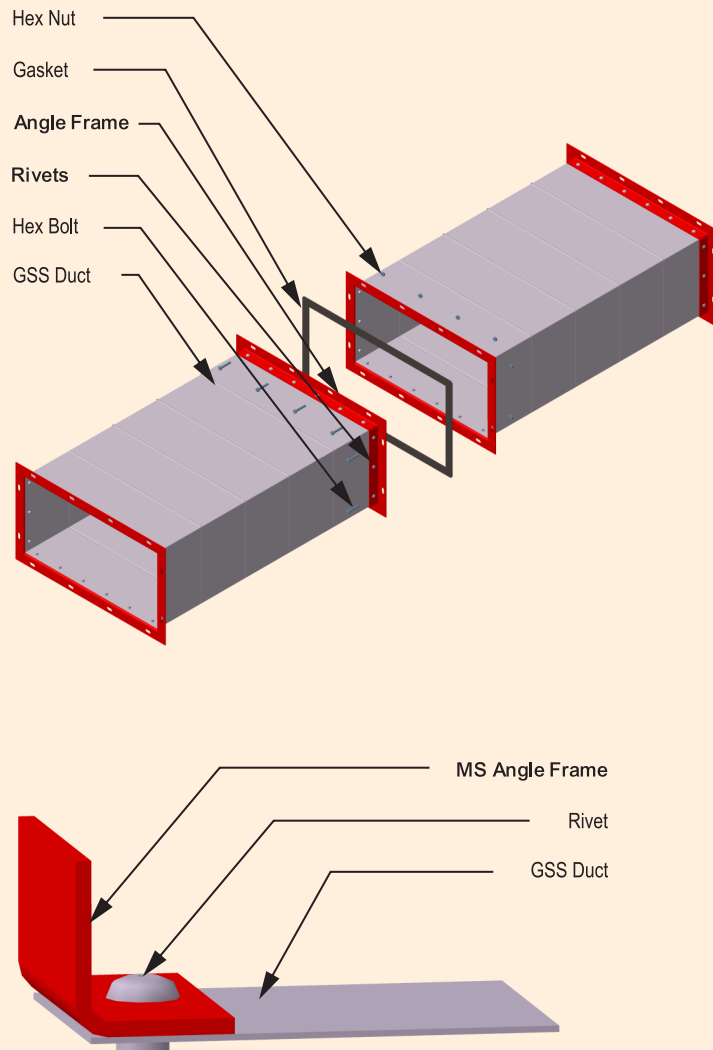
Rectangular Galvanised Steel Sheet Duct - Angle Frame (RGSAF):

Hollow profile rectangular duct made of Galvanised Steel Sheet conforming to IS: 277 2018, with Angle Frames riveted to duct.

DUCT SCHEDULE					
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Angle Frame Size*	Max Length
26 G	Galvanised Steel Sheet conforming to IS:277 2018 of 120/180/275 GSM	Pittsburgh Lock	MS Angle Frame (riveted)	3 x 25	4 Ft
24 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 25	4 Ft
22 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 30	4 Ft
20 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 40	4 Ft
18 G		Pittsburgh Lock	MS Angle Frame (riveted)	5 x 40	4 Ft
16 G		Pittsburgh Lock	MS Angle Frame (riveted)	5 x 40	4 Ft

* Angle Frame Size schedule as per IS:655 2006 – Low Pressure Duct (<500 Pa)

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (RGSAF)

1. Type: Factory Fabricated Ducts

2. Applicable standard: SMACNA / IS Standards / Customer Requirement

3. Make & Origin: Vedha, India

4. Material specification

A. Duct: Galvanised Steel Sheet conforming to IS:277 2018, Of finish Galvanised with 120 / 180 / 275 GSM.

B. Angle Frame: MS Angle conforming to IS: 2062

5. Design Highlights:

A. Profile: 5 embossing per 4-feet span provides better strength and rigidity.

B. Longitudinal Seam: Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles and Leak-proof locking.

C. Transverse Flange: Angle Frames made of MS (IS: 2062) fully MIG welded outside at four corners for leak proof performance.

6. Angle Frame Joint System Components

A. Angle Frame: Angle frames having slotted holes punched in Fully Automatic precision pressing system for accurate hole pitch for hassle free and fool proof connectivity with Bolt & Nuts.

B. Bolt & Nut: Electroplated High Tensile Hexagonal Bolt & Nut of size M8.

C. Gasket: Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.

D. Sealant: Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

RECTANGULAR SOLDERED DUCT - RSGSAF

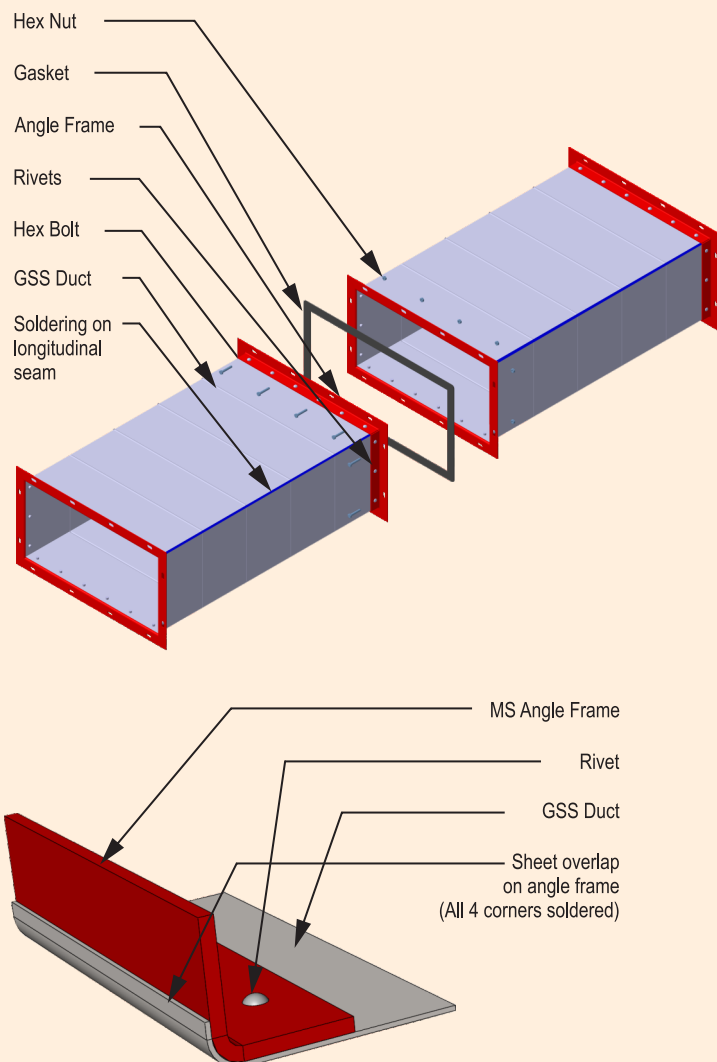
Rectangular Soldered Galvanised Steel Sheet Duct - Angle Frame (RSGSAF)

Hollow profile rectangular Soldered duct made of Galvanised Steel Sheet conforming to IS: 277 2018, with Longitudinal seam Soldered for Leak proofing and Angle Frames riveted to duct.

DUCT SCHEDULE					
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Angle Frame Size*	Max Length
26 G	Galvanised Steel Sheet conforming to IS:277 2018 of 120/180/275 GSM	Pittsburgh Lock	MS Angle Frame (riveted)	3 x 25	4 Ft
24 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 25	4 Ft
22 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 30	4 Ft
20 G		Pittsburgh Lock	MS Angle Frame (riveted)	3 x 40	4 Ft
18 G		Pittsburgh Lock	MS Angle Frame (riveted)	5 x 40	4 Ft
16 G		Pittsburgh Lock	MS Angle Frame (riveted)	5 x 40	4 Ft

* Angle Frame Size schedule as per IS:655 2006 – Low Pressure Duct (<500 Pa)

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (RSGSAF)

- 1. Type:** Factory Fabricated Ducts
- 2. Applicable standard:** SMACNA / IS Standards / Customer Requirement
- 3. Make & Origin:** Vedha, India
- 4. Material specification**
 - A. Duct:** Galvanised Steel Sheet conforming to IS:277 2018, Of finish Galvanised with 120 / 180 / 275 GSM.
 - B. Angle Frame:** MS Angle conforming to IS: 2062
- 5. Design Highlights:**
 - A. Profile:** 5 embossing per 4-feet span provides better strength and rigidity.
 - B. Longitudinal Seam:** Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles further Soldered for Leak-proof locking.
 - C. Transverse Flange:** Angle Frames made of MS (IS:2062) fully MIG welded Riveted to Duct and Sheet edges folded over the Angle frame and Soldered at four corners for leakproof performance.
- 6. Angle Frame Joint System Components**
 - A. Angle Frame:** Angle frames having slotted holes punched in Fully Automatic precision pressing system for accurate hole pitch for hassle free and fool proof connectivity with Bolt & Nuts.
 - B. Bolt & Nut:** Electroplated High Tensile Hexagonal Bolt & Nut of size M8.
 - C. Gasket:** Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
 - D. Sealant:** Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

RECTANGULAR DUCT - RMSAF

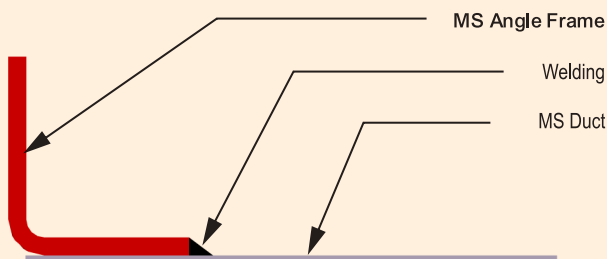
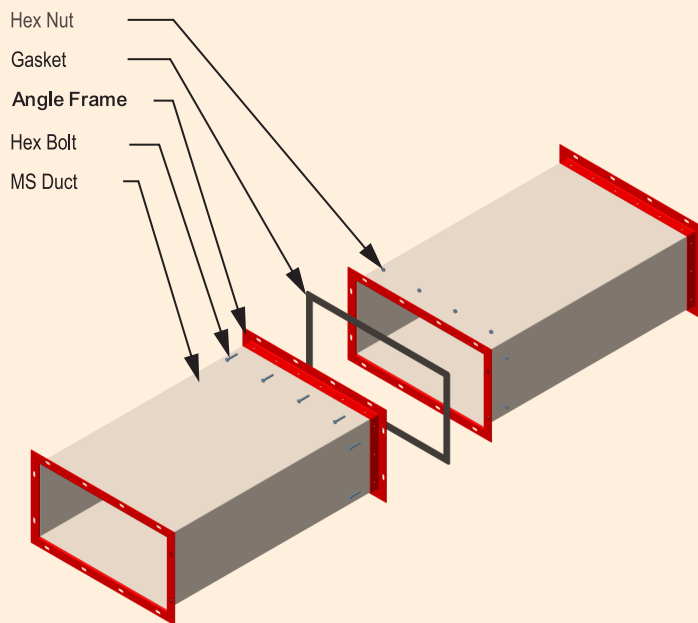
Rectangular Mild Steel Sheet Duct - Angle Frame (RMSAF):

Hollow profile fully welded rectangular duct made of Mild Steel (MS) sheet conforming to HR Grade (IS: 2062) or CR grade (IS: 513) with MS Angle Frames full welded to duct.

DUCT SCHEDULE

Duct Gauge	Material Specification	Longitudinal Seam Joint	Transverse Joint	Angle Frame Size	Max Length
16 G	MS (IS:2062 / IS:513)	Welded	Welded Angle Frame	3 x 30	4 Ft
14 G		Welded	Welded Angle Frame	3 x 40	4 Ft

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (RMSAF)

- 1. Type:** Factory Fabricated Ducts
- 2. Applicable standard:** Customer Requirement
- 3. Make & Origin:** Vedha, India
- 4. Material specification**
 - A. Duct:** Mild Steel (MS) Sheet conforming to HR grade (IS:2062) / CR grade (IS:513) Natural finish.
 - B. Angle Frame:** MS Angle conforming to IS: 2062 Natural finish
- 5. Design Highlights:**
 - A. Profile:** CNC precision cut profiles for Best-in-class dimensional Accuracy.
 - B. Longitudinal Seam:** Fully MIG Welded Longitudinal seam.
 - C. Transverse Flange:** Angle Frames made of MS (IS: 2062) fully welded to duct.

All joints are MIG welded for superior weld quality and leak proof performance.
- 6. Angle Frame Joint System Components**
 - A. Angle Frame:** Angle frames having slotted holes punched in Fully Automatic precision pressing system for accurate hole pitch for hassle free and fool proof connectivity with Bolt & Nuts.
 - B. Bolt & Nut:** Electroplated High Tensile Hexagonal Bolt & Nut of size M8.
 - C. Gasket:** Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
 - D. Sealant:** Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

RECTANGULAR DUCT - RSST

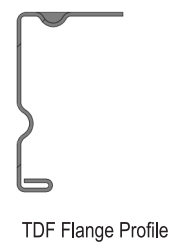
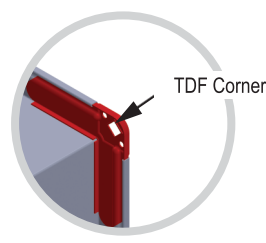
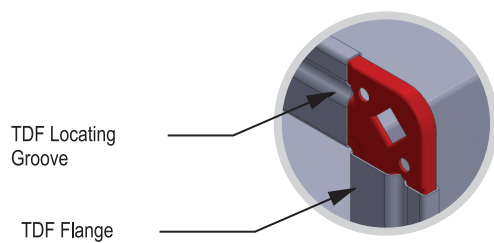
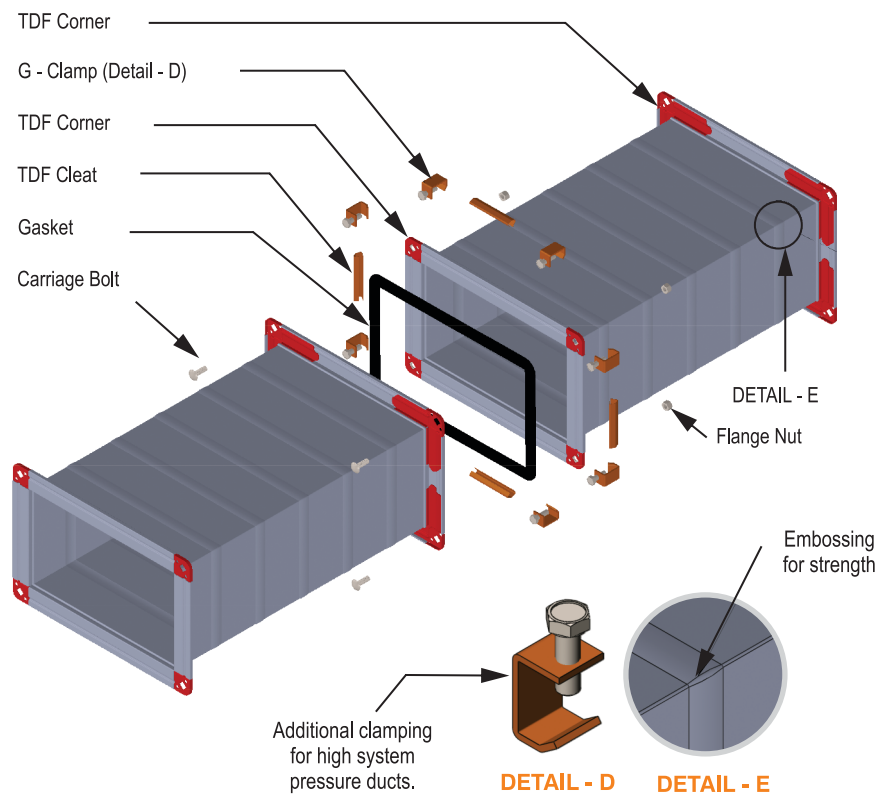
Rectangular Stainless Steel Sheet Duct - TDF (RSST):

Hollow profile rectangular duct made of Stainless Steel (SS) sheet conforming to 304 grade of IS: 6911 2017, with TDF flanges.

DUCT SCHEDULE				
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
26 G	Stainless Steel Sheet conforming to SS 304 grade of IS:6911 2017	Pittsburgh Lock	TDF	4 Ft
24 G		Pittsburgh Lock	TDF	4 Ft
22 G		Pittsburgh Lock	TDF	4 Ft

VEDHA TDF Jointing System

VEDHA Ducts have specially Designed 32mm wide Transverse flange with specially designed groove for better strength.



RECTANGULAR DUCT - RSST

TECHNICAL MODEL DATA (RSST)

1.	Type	Factory Fabricated Ducts
2.	Applicable standard	SMACNA / IS Standards
3.	Make & Origin	Vedha, India
4.	Material specification	Stainless Steel (SS) Sheet conforming to 304 grade of IS:6911 2017, Natural finish
5.	Design Highlights	
	A. Profile	5 embossing per 4-feet span provides better strength and rigidity.
	B. Longitudinal Seam	Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles and Leak-proof locking.
	C. Transverse Flange	<p>Transverse Duct Flange (TDF) - 32mm wide with specially designed groove for better Air Leak Proofing.</p> <p>A recessed groove on flange & radial groove on corner pieces (TDF Flanges) for proper gasket seating.</p> <p>TDF Flange design suitable for Cleat fixing, as well as additional clamping for high system pressure ducts.</p>
6.	TDF System Components	
	A. TDF Corners	TDF corners manufactured in fully automated production line with High end special tooling and superior metals offer good strength to the flange while jointing.
	B. Bolt & Nut	SS High Tensile Hex. Bolt & Nut of size M10.
	C. Gasket	Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
	D. TDF Cleat	Machine made TDF Cleat from 22G SS for better strength and Locking of TDF Flange.
E. Sealant	Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.	
7.	Special Note	For Duct Size < 250mm, TDF is not possible, instead C & SS Transverse Jointing is Recommended.
	TDF Cleats Usage Instructions	<p>A. TDF Cleats should be fixed at max. 150 mm distance from the duct corner, and a centre distance of 250 mm to be maintained between cleats for ducts up to 3" w.g. static.</p> <p>B. For up to 1" WG Pressure Ducts - Cleats shall be used.</p> <p>C. For more than 1" WG Pressure Ducts - Cleats shall be used with appropriate Sealant Applied throughout the joint</p> <p>D. For more than 3" WG Pressure Ducts – In addition to fixing TDF Cleats, clamping of the flanges is recommended.</p>

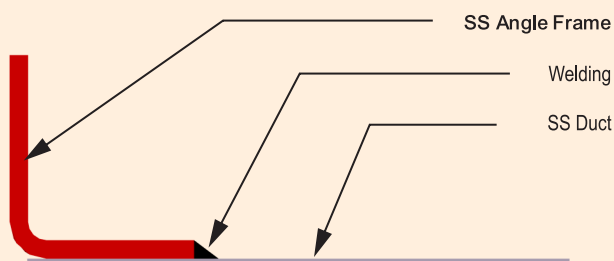
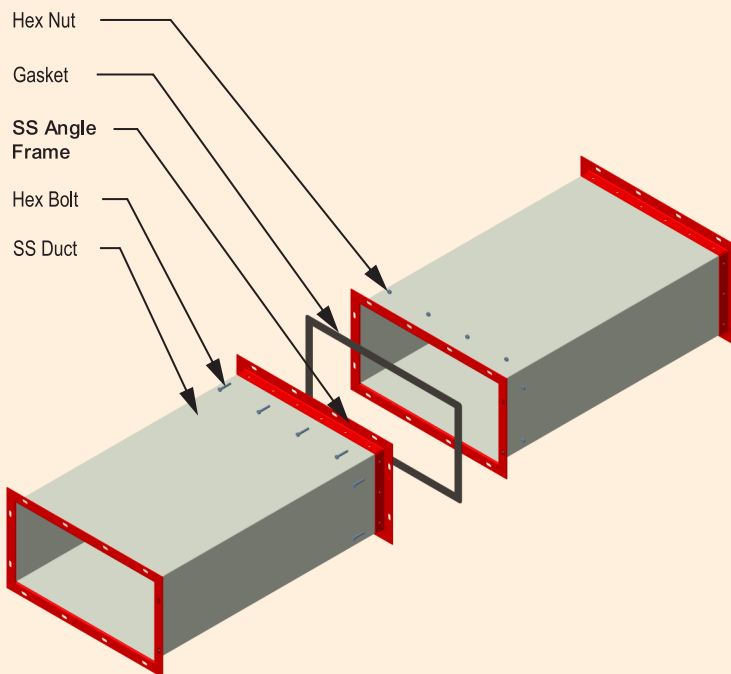
RECTANGULAR DUCT - RSSAF

Rectangular Stainless Steel Sheet Duct - Angle Frame (RSSAF):

Hollow profile fully welded rectangular duct made of Stainless Steel (SS) sheet conforming to 304 grade of IS: 6911 2017 with SS Angle Frames full welded to duct.

DUCT SCHEDULE					
Duct Gauge	Material Specification	Longitudinal Seam Joint	Transverse Joint	Angle Frame Size	Max Length
20 G	SS	Welded	SS 304 Welded Angle Frame	3 x 25	4 Ft
18 G	304 grade of IS:	Welded	SS 304 Welded Angle Frame	3 x 25	4 Ft
16 G	6911 2017	Welded	SS 304 Welded Angle Frame	3 x 40	4 Ft

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (RSSAF)

- 1. Type:** Factory Fabricated Ducts
- 2. Applicable standard:** Customer Requirement
- 3. Make & Origin:** Vedha, India
- 4. Material specification**
 - A. Duct:** Stainless Sheet Steel conforming to SS 304 grade of IS:6911 2017 Natural finish.
 - B. Angle Frame:** SS Angle conforming to 304 Grade Natural finish.
- 5. Design Highlights:**
 - A. Profile:** CNC precision cut profiles for Best-in-class dimensional Accuracy.
 - B. Longitudinal Seam:** Fully TIG Welded Longitudinal seam.
 - C. Transverse Flange:** Angle Frames made of SS 304 Grade with fully MIG welded to duct.

All joints are MIG welded for superior weld quality and leak proof performance.
- 6. Angle Frame Joint System Components**
 - A. Angle Frame:** Angle frames having slotted holes punched in Fully Automatic precision pressing system for accurate hole pitch for hassle free and fool proof connectivity with Bolt & Nuts.
 - B. Bolt & Nut:** SS High Tensile Hexagonal Bolt & Nut of size M8.
 - C. Gasket:** Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
 - D. Sealant:** Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

RECTANGULAR DUCT - RALT

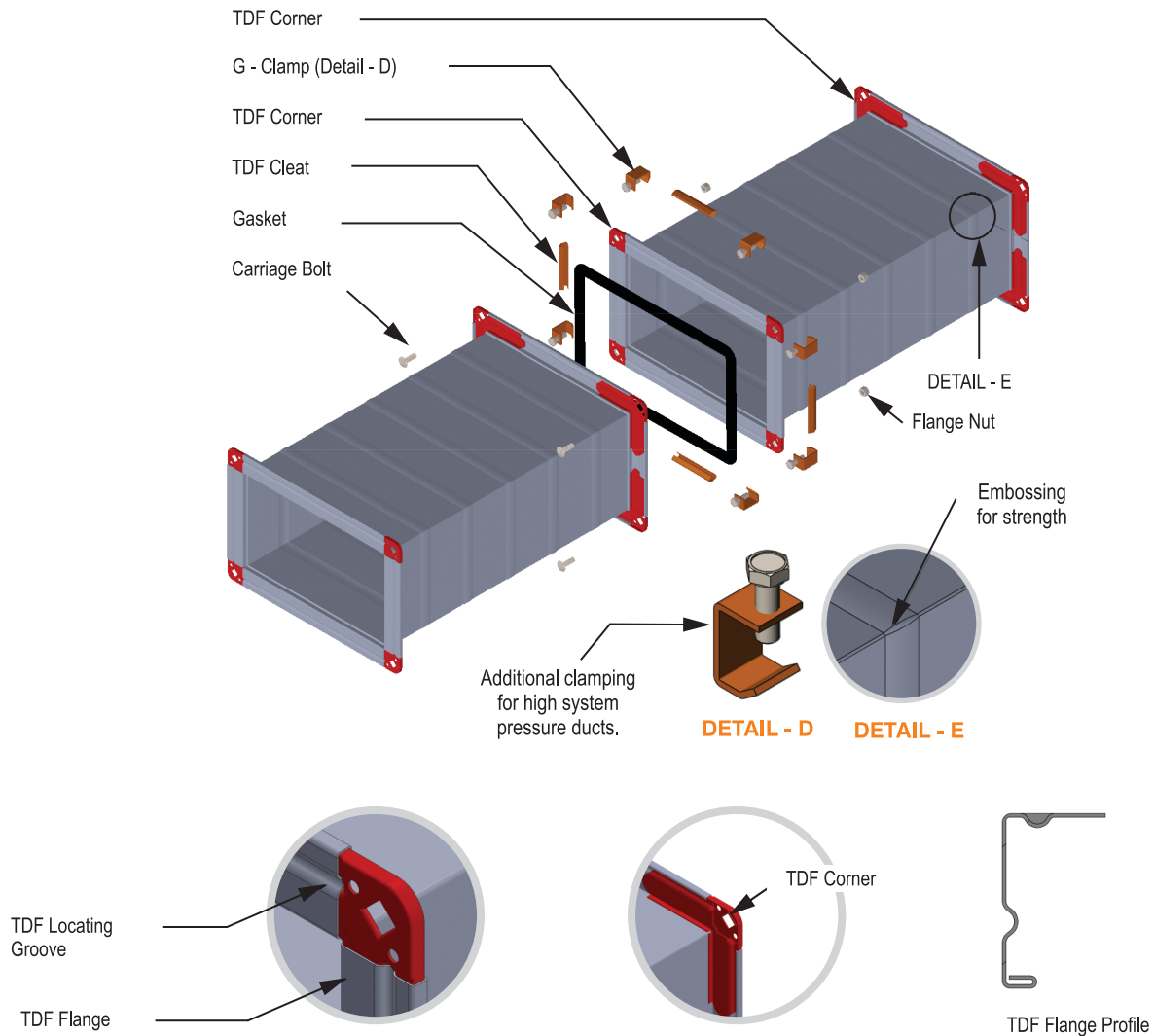
Rectangular Aluminium Duct - (RALT):

Hollow profile rectangular duct made of Aluminium sheet conforming to IS: 737 2008 with TDF flanges.

DUCT SCHEDULE				
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
26 G	Aluminium Sheet conforming to IS: 737 2008	Pittsburgh Lock	TDF	4 Ft
24 G		Pittsburgh Lock	TDF	4 Ft
22 G		Pittsburgh Lock	TDF	4 Ft
20 G		Pittsburgh Lock	TDF	4 Ft
18 G		Pittsburgh Lock	TDF	4 Ft
16 G		Pittsburgh Lock	TDF	4 Ft

VEDHA TDF JOINTING SYSTEM

VEDHA Ducts have specially Designed 32mm wide Transverse flange with specially designed groove for better strength.



RECTANGULAR DUCT - RALT

TECHNICAL MODEL DATA (RALT)

1.	Type	Factory Fabricated Ducts
2.	Applicable standard	SMACNA / IS Standards
3.	Make & Origin	Vedha, India
4.	Material specification	Aluminium Sheet conforming to IS: 737;2008, Natural finish
5.	Design Highlights	
	A. Profile	5 embossing per 4-feet span provides better strength and rigidity.
	B. Longitudinal Seam	Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles and Leak-proof locking.
	C. Transverse Flange	Transverse Duct Flange (TDF) - 32mm wide with specially designed groove for better Air Leak Proofing.
A recessed groove on flange & radial groove on corner pieces (TDF Flanges) for proper gasket seating.		
TDF Flange design suitable for Cleat fixing, as well as additional clamping for high system pressure ducts.		
6.	TDF System Components	
	A. TDF Corners	TDF corner made of GSS manufactured in fully automated production line with High end special tooling and superior metals offer good strength to the flange while jointing.
	B. Bolt & Nut	Electroplated High Tensile Carriage Bolt & Flange Nut of size M10.
	C. Gasket	Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
	D. TDF Cleat	Machine made TDF Cleat from 22G G.S.S for better strength and Locking of TDF Flange.
E. Sealant	Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.	
7.	Special Note	For Duct Size < 250mm, TDF is not possible, instead C & SS Transverse Jointing is Recommended.
	TDF Cleats Usage Instructions	<p>A. TDF Cleats should be fixed at max. 150 mm distance from the duct corner, and a centre distance of 250 mm to be maintained between cleats for ducts up to 3" w.g. static.</p> <p>B. For up to 1" WG Pressure Ducts - Cleats shall be used.</p> <p>C. For more than 1" WG Pressure Ducts - Cleats shall be used with appropriate Sealant Applied throughout the joint</p> <p>D. For more than 3" WG Pressure Ducts – In addition to fixing TDF Cleats, clamping of the flanges is recommended.</p>

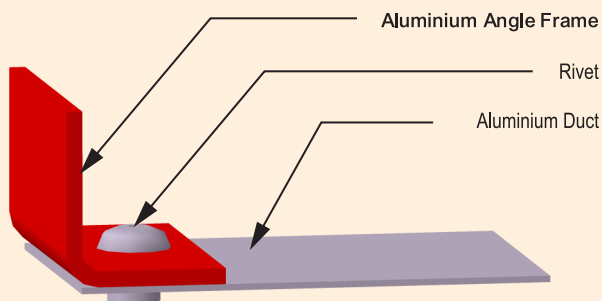
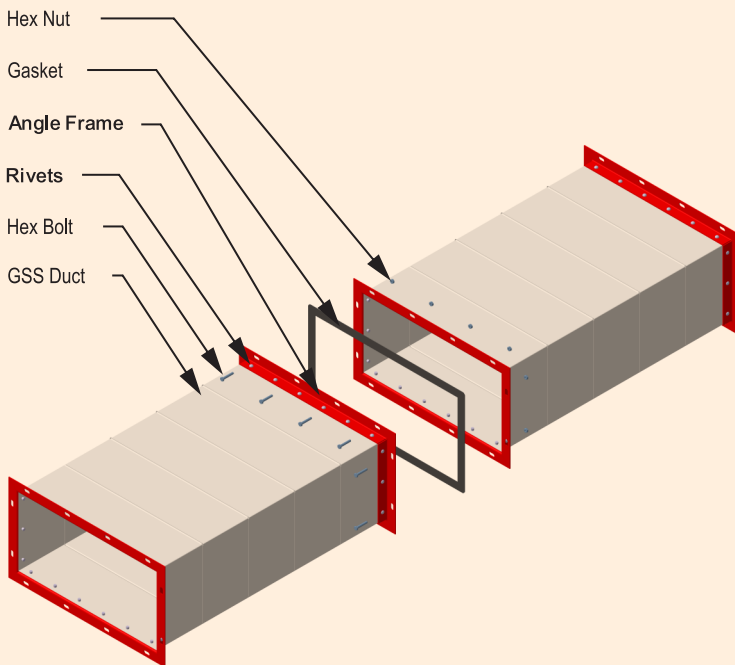
RECTANGULAR DUCT - RALAF

Rectangular Aluminium Sheet Duct - Angle Frame (RALAF):

Hollow profile rectangular duct made of Aluminium sheet conforming to IS: 737 2008 with Aluminium Angle Frames riveted to duct.

DUCT SCHEDULE					
Duct Gauge	Material	Longitudinal Seam Joint	Transverse Joint	Angle Frame Size	Max Length
26 G	Aluminium Sheet conforming to IS:737 2008 Natural finish	Pittsburgh Lock	Aluminium Angle Frame (riveted)	3 x 30	4 Ft
24 G		Pittsburgh Lock	Aluminium Angle Frame (riveted)	3 x 30	4 Ft
22 G		Pittsburgh Lock	Aluminium Angle Frame (riveted)	3 x 40	4 Ft
20 G		Pittsburgh Lock	Aluminium Angle Frame (riveted)	3 x 40	4 Ft
18 G		Pittsburgh Lock	Aluminium Angle Frame (riveted)	5 x 40	4 Ft
16 G		Pittsburgh Lock	Aluminium Angle Frame (riveted)	5 x 40	4 Ft

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (RALAF)

- 1. Type:** Factory Fabricated Ducts
- 2. Applicable standard:** Customer Requirement
- 3. Make & Origin:** Vedha, India
- 4. Material specification**
 - A. Duct:** Aluminium Sheet conforming to IS:737;2008, Natural finish.
 - B. Angle Frame:** Extruded Aluminium Profile conforming to 6063 T6 (alloy and temper).
- 5. Design Highlights**
 - A. Profile:** 5 embossing per 4-feet span provides better strength and rigidity.
 - B. Longitudinal Seam:** Pittsburgh Seam Lock profile made on High end Roll formers for accurate seam profiles and Leak-proof locking.
 - C. Transverse Flange:** Angle Frames made of Extruded Aluminium profiles with fully welded outside at four corners.
- 6. Angle Frame Joint System Components**
 - A. Angle Frame:** Angle frames having slotted holes punched in Fully Automatic precision pressing system for accurate hole pitch for hassle free and fool proof connectivity with Bolt & Nuts.
 - B. Bolt & Nut:** Electroplated High Tensile Hexagonal Bolt & Nut of size M8.
 - C. Gasket:** Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing.
 - D. Sealant:** Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

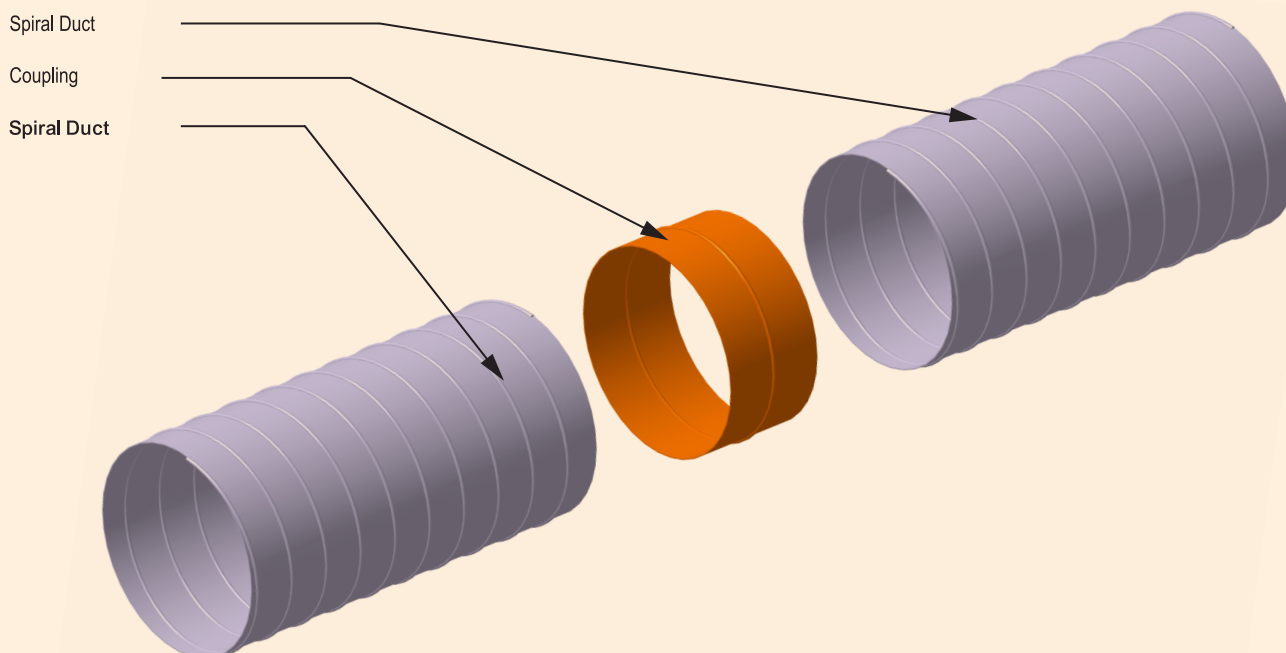
SPIRAL ROUND DUCT - SRGSC

Spiral Round Galvanised Steel Sheet Duct - Coupling Joint (SRGSC):

Hollow profile Spiral Round duct made of Galvanised Steel Sheet conforming to IS: 277 2018, with Couplings for joining ducts.

DUCT SCHEDULE				
Diameter Range	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
Ø80 - Ø1500	Galvanised Steel Sheet conforming to IS: 277 2018	Spiral Seam Lock forming	Coupling	8 Ft / 12 Ft

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (SRGSC)

1. Type: Factory Fabricated Ducts

2. Applicable standard: SMACNA Standards

3. Make & Origin: Vedha, India

4. Material specification

A. Duct: Galvanised Steel Sheet conforming to IS:277 2018, Of finish Galvanised with 120 / 180 / 275 GSM.

B. Coupling: GSS Coupling (18G).

5. Design Highlights

A. Profile: Ducts made on High end Roll formers for accurate seam profiles and Leak-proof locking.

B. Longitudinal Seam: Specially designed spiral seam provides better strength and rigidity, ducts.

C. Transverse Flange: Joint Couplings made on CNC machines for accurate dimensions and better matching and easy slipping into the Inner side of the duct.

6. Coupling Joint System Components

A. Rivets: Ducts are joined with coupling jointing system using High Tensile Electroplated screws / Rivets.

B. Sealant: Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

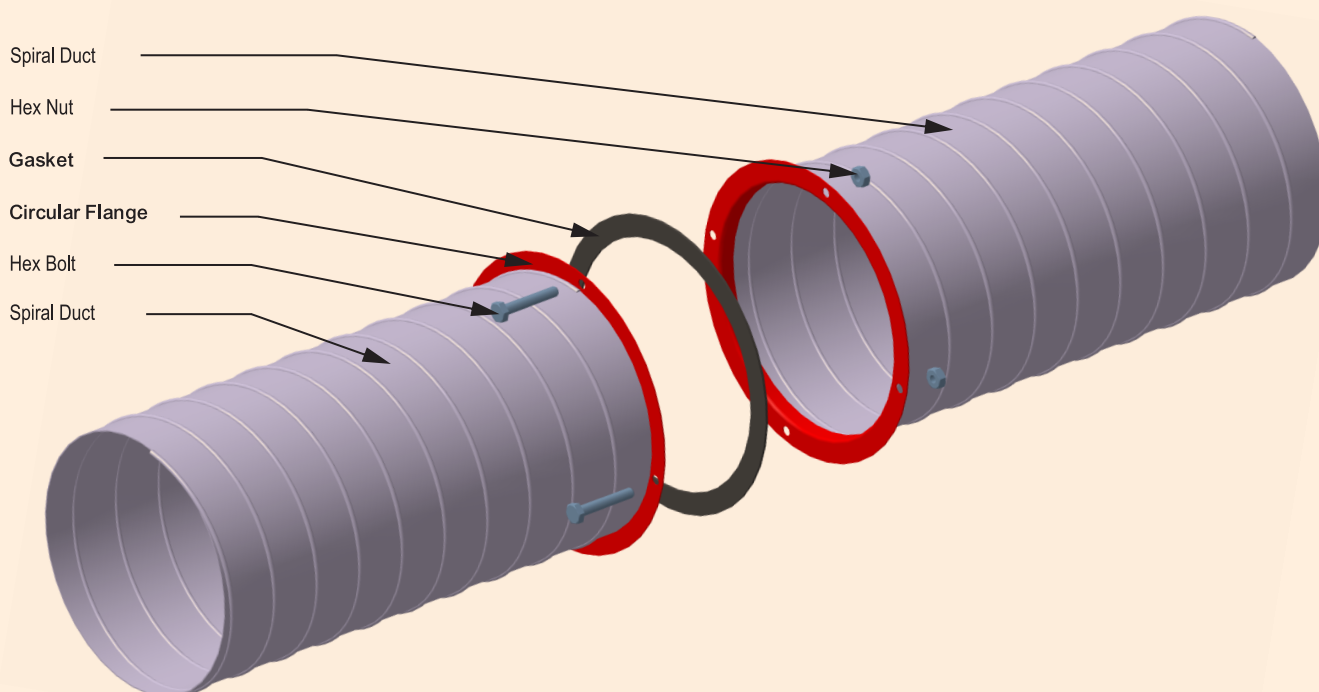
SPIRAL ROUND DUCT - SRGSF

Spiral Round Galvanised Steel Sheet Duct - Flanged Joint (SRGSF):

Hollow profile Spiral Round duct made of Galvanised Steel Sheet conforming to IS: 277 2018, with Circular flanges for joining ducts.

DUCT SCHEDULE				
Diameter Range	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
Ø80 - Ø1500	Galvanised Steel Sheet conforming to IS: 277 2018	Spiral Seam Lock forming	Circular Flanges (Riveted)	8 Ft / 12 Ft

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (SRGSF)

1. Type: Factory Fabricated Ducts

2. Applicable standard: SMACNA Standards

3. Make & Origin: Vedha, India

4. Material specification

A. Duct: Galvanised Steel Sheet conforming to IS:277 2018, Of finish Galvanised with 120 / 180 / 275 GSM.

B. Flange: Circular Flange made of MS 'L' Angle Riveted to Duct.

5. Design Highlights

A. Profile: Ducts made on High end Roll formers for accurate seam profiles and Leak-proof locking.

B. Longitudinal Seam: Specially designed spiral seam provides better strength and rigidity, ducts.

C. Flanges: Circular Flanges made of MS 'L' angle riveted to duct with mating holes for hassle free Jointing of Ducts with Bolt nuts.

6. Flanged Joint System Components

A. Bolt & Nut: Electroplated High Tensile Hexagonal Bolt & Nut of size M8.

B. Gasket: Gasket Foam with single side coated specially formulated acrylic adhesive for High bonding with Metal Flange. Thickness of 5mm X 20mm Width for better compression and sealing

C. Sealant: Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

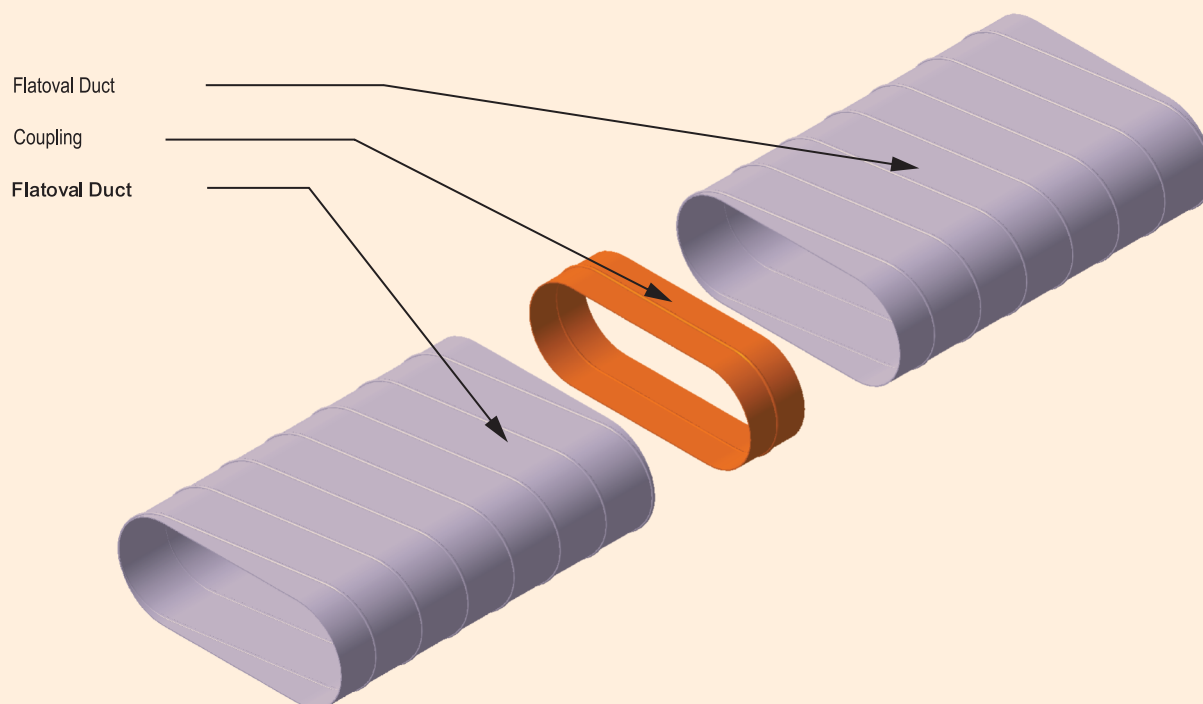
SPIRAL FLAT OVAL DUCT - SFGSC

Spiral Flat Oval Galvanised Steel Sheet Duct - Coupling Joint (SFGSC):

Hollow profile Flat Oval duct made of Galvanised Steel sheet conforming to IS: 277 2018, with coupling joints.

DUCT SCHEDULE				
Size Range	Material	Longitudinal Seam Joint	Transverse Joint	Max Length
MAJOR AXIS 475 - 1800	Galvanised Steel Sheet conforming to IS: 277 2018	Spiral Seam Lock forming	Coupling Joint	8 Ft / 12 Ft
MINOR AXIS 150 - 500				

3D Schematic Duct Connection Drawing



TECHNICAL MODEL DATA (SFGSC)

1. Type: Factory Fabricated Ducts

2. Applicable standard: SMACNA Standards

3. Make & Origin: Vedha, India

4. Material specification

A. Duct: Galvanised Sheet Steel conforming to IS:277;2018, Of finish Galvanised with 120 / 180 / 275 GSM..

B. Coupling: GSS Coupling (18G).

5. Design Highlights

A. Profile: Ducts made on High end Roll formers for accurate seam profiles and Leak-proof locking..

B. Longitudinal Seam: Specially designed spiral seam provides better strength and rigidity, ducts.

C. Couplings: Joint Couplings made on CNC machines for accurate dimensions and better matching and easy slipping into the Inner side of the duct

6. Coupling Joint System Components

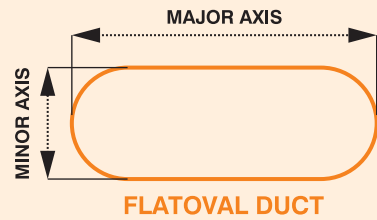
A. Bolt & Nut: Ducts are joined with coupling jointing system using High Tensile Electroplated screws / Rivets.

B. Gasket: Water based Duct Sealant 100% Non-Hazardous Food grade material, High viscosity for better application and sealing with VOC less than 0.01 gm/Lt.

SPIRAL FLAT OVAL DUCT - SFGSC

Flat oval size range:

ROUND DIA	MAJOR AXIS	MINOR AXIS							
		150	200	250	300	350	400	450	500
100									
200									
250									
300									
350		475							
400		550	525						
450		625	600	575					
500		700	675	650	625				
550		775	750	725	700	675			
600		875	825	800	775	750	725		
650		950	925	875	850	825	800	775	
700		1025	1000	975	950	900	875	850	825
750		1100	1075	1050	1025	1000	950	925	900
800			1150	1125	1100	1075	1050	1000	975
850				1200	1175	1150	1125	1100	1050
900				1275	1250	1225	1200	1175	1150
945				1350	1325	1300	1275	1250	1200
1000					1425	1375	1350	1325	1300
1050					1500	1475	1425	1400	1375
1100					1575	1550	1525	1475	1450
1150					1650	1625	1600	1575	1550
1200						1700	1675	1650	1625
1250						1775	1750	1725	1700
1300						1850	1825	1800	1775
1350									
1400									
1450									
1500									



NOTES:

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Expertise to rely on



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