

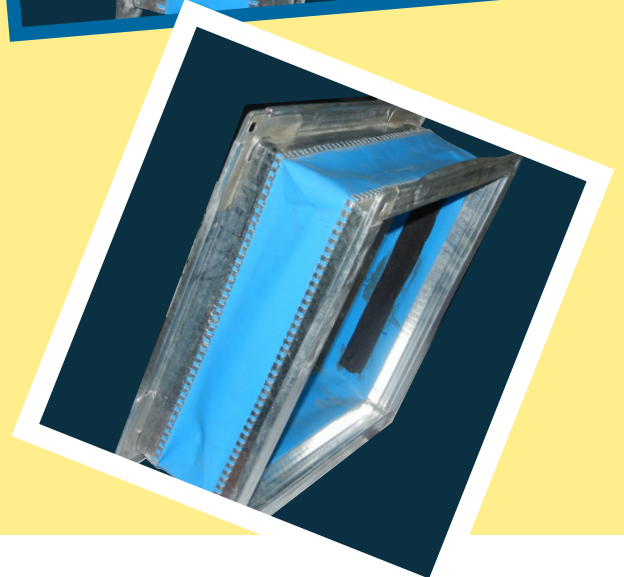
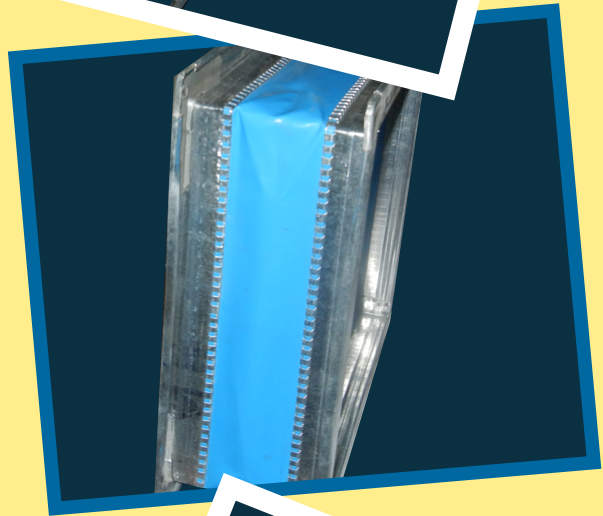
VENUS FLEXIBLE DUCT CONNECTOR

Pre-Assembled Flexible Duct Connector eliminates the duct system noises and vibrations

All air duct installations for heating, cooling or ventilation are attached to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.

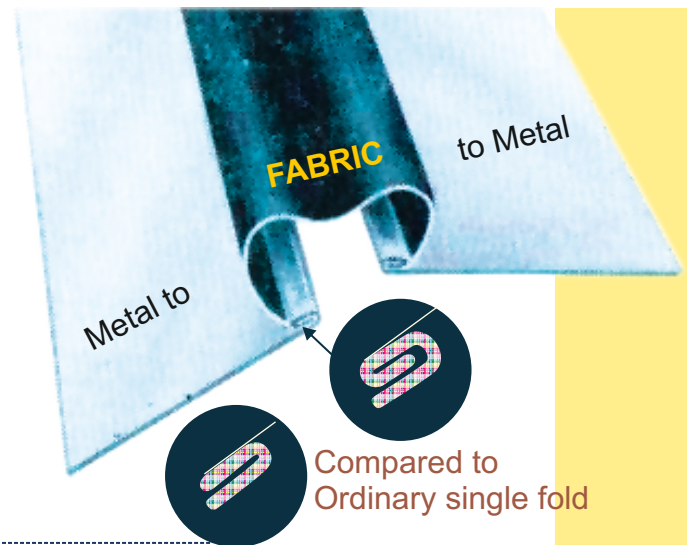
In order to isolate the vibration and noises to the source, an air-tight flexible joint, consisting of a fabric which is secured to sheet metal on both sides, must be inserted between the equipment and the ductwork. This flexible joint is called a "Flexible Duct Connector".

To meet every type of installation requirement, whether it be for factory, institution, office or home, we offer the widest variety of flexible duct connector fabrics and sizes; pre-assembled with the sheet metal permanently secured to the fabric by means of exclusive Roll Formed Seam Locks. Venus Flexible Duct Connectors are dispensed from the carton, ready to complete fabrication faster, more efficiently, and more economically than any other conventional method



“ROLL FORMING LOCK”

The double-lock gripping fingers of metal-to fabrics add tremendously holding power, compared with conventional single fold method.



INDUSTRIAL / COMMERCIAL APPLICATIONS:

The Material can be offered with TDF on both sides of flexible connector. The product is designed to be compatible with both TDC/TDF Roll Formed Flanges.

This products can also be supplied with insulated flexible connector with 2 layers of Fabrics sandwiched with fiberglass wool.

FABRICATING A FLEXIBLE CONNECTION:

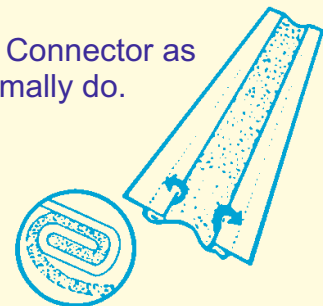
HOW TO STIFFEN FLEXIBLE CONNECTOR

When installing large size flexible connectors in a duct system, some type of stiffening agent is usually required to keep the unit relatively rigid. Some contractors use angle iron, while in many cases a bar slip connection is used to achieve this result. Now it is possible to save valuable time and material by forming Venus Roll Loc seam formed on Metal Fab, to rigidize the connector over long sections. Here is how it is done.

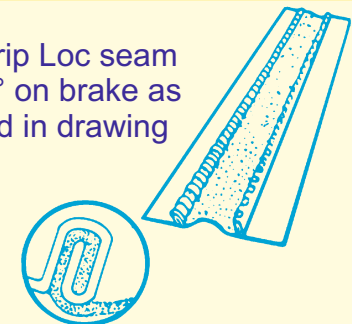
This simple method of stiffening the sides of Roll Loc Flexible Connector can eliminate the costly addition of angle iron used to perform this job.

Note: The stiffening method illustrated here is recommended only with Venus Roll Loc Connector.

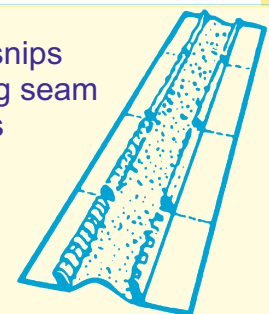
Lay out Connector as you normally do.



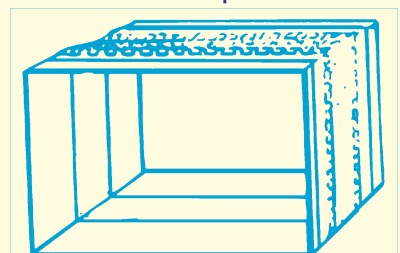
Bend Grip Loc seam upto 90° on brake as indicated in drawing



Using heavy snips notch standing seam at bend points



Bend to form completed connector



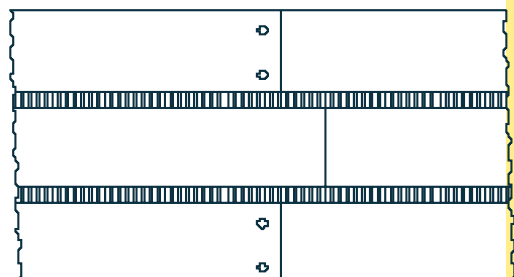
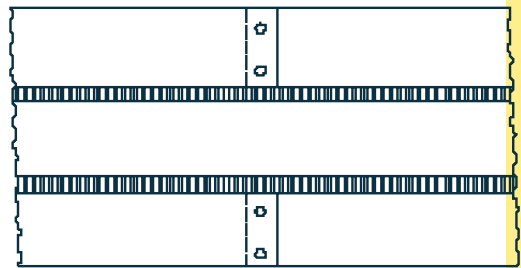
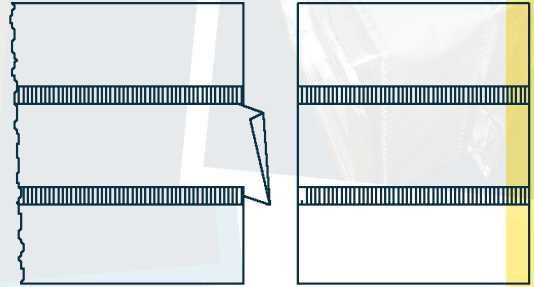
SL. NO.	FABRIC	WEIGHT/DENSITY	TENSILE STRENGTH	TEAR STRENGTH	TEMPERATURE		FEATURES
					LOW	HIGH	
1	Polyester	18 Oz/Sq.Yd. [610 g./Sq. meter]	200 lbs. x 190 lbs. [889 N x 845 N]	60 lbs x 80 lbs. [267 N x 356 N]	[-]40°F [-40°C]	200°F [93°C]	[1] Environmentally 'Green' connector [2] Minimum 10% recycled content [3] UV reflective [White side] [4] Unaffected by Mildew
2	Polyester	24 Oz/Sq.Yd. [814 g./Sq. meter]	280 lbs. x 235 lbs. [1245 N x 1045 N]	100 lbs x 100 lbs. [485 N x 445 N]	[-]40°F [-40°C]	260°F [126°C]	[1] Low Cost Substitute for Hypalon [2] Specifically formulated for outdoor use [3] Excellent weather and ozone resistance. [4] Unaffected by mildew
3	Woven Fiberglass with Vinyl Coating	12 Oz/Sq.Yd. [407 g./Sq. meter]	90 lbs. x 90 lbs. [400 N x 400 N]	8 lbs x 9 lbs. [36 N x 40 N]	[-]40°F [-40°C]	180°F [82°C]	[1] Good, low cost [2] Resistant to acids and chemical fumes [3] Resistant to grease & alkalis [4] Unaffected by mildew
4	Woven Nylon / Polyester Blend with Vinyl Coating	Commercial Grade: 22 Oz/Sq. Yd.[746 g./Sq. meter]. Residential Grade: 17 Oz./Sq.Yd.[576 g/Sq.meter	240 lbs. x 220 lbs. [1067 N x 978 N]	100 lbs x 100 lbs. [445 N x 445 N]	[-]40°F [-40°C]	180°F [82°C]	[1] Excellent Water Resistance. [2] Excellent tear strength [3] Excellent all purpose fabric and [4] Un-affected by mildew
5	Woven Fiberglass with Neoprene Coating	22 Oz/Sq.Yd.[746 g./Sq.meter].	500 lbs. x 500 lbs. [2224 N x 2224 N]	13 lbs x 13 lbs.[58 N x 58 N]	[-]40°F [-40°C]	200°F [93°C]	[1] Extremely resistant to alkalis & gasoline [2] Excellent on systems exposed to toxic fumes [3] Good general purpose fabric [4] Un-affected by mildew
6	Woven Fiberglass with Neoprene coating	30 Oz/Sq.Yd. [1017 g./Sq. meter].	500 lbs. x 500 lbs. [2224 N x 2224 N]	13 lbs x 13 lbs. [58 N x 58 N]	[-]40°F [-40°C]	200°F [93°C]	[1] Extremely resistant to alkalis & gasoline [2] Excellent on systems exposed to toxic fumes [3] Good general purpose fabric [4] Un-affected by mildew
7	Woven Fiberglass with Hypalon Coating	24 Oz/Sq.Yd. [814 g./Sq. meter].	250 lbs. x 275 lbs. [1120 N x 1223 N]	13 lbs x 13 lbs. [58 N x 58 N]	[-]40°F [-40°C]	250°F [121°C]	[1] Excellent Ozone Resistance [2] Excellent resistance to weathering [3] Best Overall acid resistance [4] Recommended for rooftop applications [5] Un-affected by mildew
8	Woven Fiberglass with Silicon Rubber Coating	17 Oz/Sq.Yd. [576 g./Sq. meter].	200 lbs. x 250 lbs. [889 N x 1120 N]	50 lbs x 40 lbs. [222 N x 178 N]	[-]65°F [-54°C]	500°F [260°C]	[1] Excellent high temperature resistance [2] Excellent low temperature resistance [3] Excellent chemical resistance [4] Extremely low smoke emission [5] Excellent Ozone Resistance [6] Excellent resistance to weathering [7] Un-affected by mildew

HOW TO SEAM FLEXIBLE CONNECTOR AT CORNER OF CONNECTOR

Here we suggest how the ends of connector be prepared for making a joint.

TO DO THIS:

- [1] Cut through center of lock as indicated. Cut 1" [25.4 mm] to 1 ½" [38.1 mm] deep to allow sufficient lap.
- [2] From edge of connector, cut away metal as indicated. Metal falls away exposing fabric ready for seaming.
- [3] Apply Cyno Acrylic adhesives / Rubber Adhesive.
- [4] Put a liberal amount of Cyno Acrylic adhesives/ Rubber Adhesive between the two fabric flaps & press the two pieces together to allow the Rubber Adhesive to spread out. Roll the flap ends together and staple the seal going through both pieces of fabric & the Adhesive. Allow a minimum of 24 hours curing time before fixing the connection.
- [5] Apply one or two lines of Cyno Acrylic adhesive / Rubber Adhesive sparingly, on fabric, under tongue. Press tongue down on adhesive, Rub gently and hold for 10 seconds.
- [6] For air tight connection, apply duct sealer over metal joint.



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