

PRE-ASSEMBLED

FLEXIBLE DUCT CONNECTOR

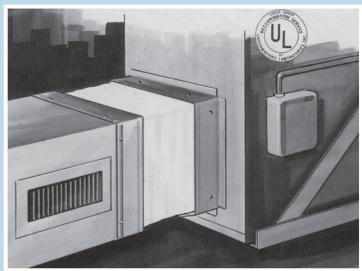
ELIMINATES DUCT SYSTEM NOISES AND VIBRATIONS

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."

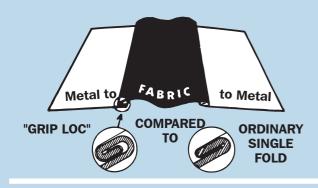
To meet every type of installation requirement, whether it be for factory, institution, office or home; Duro Dyne offers the widest variety of flexible duct connector fabrics (U.L. Classified) and sizes - pre-assembled with the sheet metal permanently secured

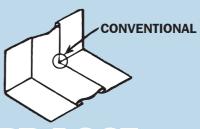
to the fabric by means of exclusive seam locks. Duro Dyne Flexible Duct Connectors are dispensed from the carton, ready to complete fabrication faster, more efficiently, and more economically than any conventional method.



"GRIP LOC"

The double-lock gripping fingers of metal-to-fabrics add tremendously to holding power, compared with conventional singlefold method. **Grip Loc is standard on Metal-Fab and Super Metal-Fab.**





"GUARD LOC"

Another Duro Dyne exclusive. - Shielded with metal on both sides at the seam, Guard Loc forms a tough metal-to-fabric bond. Forming in brake is simpler, and Guard Loc prevents tears in fabric because of unique metal-shielded seams. **Guard Loc is standard in Econ-O-Fab, Junior and Insulflex Connector.**

DUCT FABRICS

(For SPECIFICATIONS please refer to FABRICS on page 3).

Glasseal	Width	Length
#10044 DGL-6	6"	100 ft.
#10052 DGL-10	10"	100 ft.

Neoprene	Width	Length
#10043 DFN-6	6"	100 ft.
#10051 DFN-10	10"	100 ft.

Thermafab	Width	Length
#10045 DFT-6	6"	100 ft.
#10053 DFT-10	10"	100 ft.

Excelon	Width	Length
#10161 DBX-6	6"	100 ft.
#10162 DBX-10	10"	100 ft.

Durolon	Width	Length
#10042 DFD-6	6"	100 ft.
#10050 DFD-10	10"	100 ft.

Canvas, other fabrics & sizes available as special order.

FABRICS

GLASSEAL UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10004 MGL Metalfab	Color: Grey & Black	Weight: 12 oz./sq. yd.	·Good, low cost ·Resistant to acids &
#10016 MF6G Super Metalfab	Base Fabric: Woven Fiberglass Coating: Vinyl	Tensile Strength: 90 lbs. x 90 lbs. Tear Strength: 8 lbs. x 9 lbs.	chemical fumes
#10036 EGL Econofab		Low Temp: -40°F High Temp: Constant: 180°F	Resistant to grease & alkalies
#10029 JGL Junior		Intermittent: 200°F	·Unaffected by mildew

EXCELON UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10159 MBX Metalfab	Color: Black or Spec	Weight: Commercial Grade - 22 oz./sq. yd.	·Excellent water resistance
#10263 MSPX Metalfab	Chek Orange Base Fabric: Woven	Residential Grade - 17 oz./sq. yd. Tensile Strength: 240 lbs. x 220 lbs.	•Excellent tear strength •Excellent all purpose fabric
#10160 MB6X Super Metalfab	Nylon/Polyester Blend	Tear Strength: 100 lbs. x 100 lbs.	·Unaffected by mildew
#10265 MSP6X Super Metalfab	Coating: Vinyl	Low Temp: -40°F High Temp: Constant: 180°F	
#10171 EBX Econofab		Intermittent: 200°F	
#10169 JBX Junior			
#10210 MBXTDC/TDF 4x4x4			
#10264 MSPXTDC/TDF 4x4x4			
#10214 MBXTDC/TDF 4x6x4			

NEOPRENE (STANDARD GRADE) UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10105 MLN Metalfab	Color: Black	Weight: 22 oz./sq. yd.	•Extremely resistant to alkalies &
#10148 ML6N Super Metalfab	Base Fabric: Woven Fiberglass	Tensile Strength: 500 lbs. x 500 lbs. Tear Strength: 13 lbs. x 13 lbs.	gasoline •Excellent on systems exposed to
#10035 EFN Econofab	Coating: Neoprene	Low Temp: -40°F	toxic fumes
#10028 JRN Junior		High Temp: Constant: 200°F Intermittent: 220°F	·Good general purpose fabric ·Unaffected by mildew

NEOPRENE (SPECIFICATION GRADE) UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10003 MFN Metalfab	Color: Black	Weight: 30 oz./sq. yd.	•Extremely resistant to alkalies &
#10012 MF6N Super Metalfab	Base Fabric: Woven Fiberglass	Tensile Strength: 500 lbs. x 500 lbs. Tear Strength: 13 lbs. x 13 lbs.	gasoline •Excellent on systems exposed to
#10211 MFN TDC/TDF 4x4x4	Coating: Neoprene	Low Temp: -40°F	toxic fumes
#10246 MFN TDC/TDF 4x6x4		High Temp: Constant: 200°F Intermittent: 220°F	·Good general purpose fabric ·Unaffected by mildew

DUROLON UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10002 MFD Metalfab	Color: White	Weight: 24 oz./sq. yd.	•Excellent ozone resistance
#10011 MF6D Super Metalfab	Base Fabric: Woven Fiberglass	Tensile Strength: 250 lbs. x 275 lbs. Tear Strength: 13 lbs. x 13 lbs.	Excellent resistance to weathering Best overall acid resistance
#10034 EFD Econofab	Coating: Hypalon	Low Temp: -40°F	•Recommended for rooftop
#10027 JRD Junior		High Temp: Constant: 250°F Intermittent: 275°F	applications •Unaffected by mildew
#10237 MFD TDC/TDF 4x4x4			Sidiroctou sy illidew
#10245 MFD TDC/TDF 4x6x4			

THERMAFAB UL Classified File# R4462			
ITEM	DESCRIPTION	SPECIFICATIONS	FEATURES
#10005 MFT Metalfab	Color: Grey	Weight: 17 oz./sq. yd.	·Excellent high temp. resistance
#10013 MF6T Super Metalfab	Base Fabric: Woven Fiberglass	Tensile Strength: 200 lbs. x 250 lbs. Tear Strength: 50 lbs. x 40 lbs.	•Excellent low temp. resistance •Excellent chemical resistance
#10037 EFT Econofab	Coating: Silicon Rubber	Low Temp: -65°F	·Extremely low smoke emission
#10030 JRT Junior		High Temp: Constant: 500°F Intermittent: 600°F	Excellent ozone resistance Excellent resistance to weathering Unaffected by mildew

INDUSTRIAL/COMMERCIAL APPLICATIONS

METAL FAB	SPECIFICATIONS
Metal Fab is constructed of material which meets the	
requirements of heavy commercial systems. This fac-	
tory fabricated flexible duct connection will provide for normal vibration "swing" in large duct systems without "short circuiting" the effectiveness of the flexible duct	proper Classical Thermafab
connector.	Seam: "Grip Loc"

SUPER METAL FAB	SPECIFICATIONS
mission of vibration to the duct.	Gauge: 24 Galvanized
	Dimensions: 3" metal - 6" fabric - 3" metal
	Fabrics Supplied: Durolon, Excelon, Neoprene, Glasseal, Thermafab
	Seam: "Grip Loc"

IDG/IDF CONNECTOR	SI EUII IUAIIUNS
(Lockformer) and TDF (Engel) roll forming	
	Dimensions: 4" metal - 4" fabric - 4" metal
	Glasseal Thermafab
	Seam: "Grip Loc"
	Also Available: 4" metal -6" fabric -4" metal

SPECIFICATIONS

INSULFLEX	SPECIFICATIONS
Advanced Insulflex insulated flexible duct connector completes the "insulated" in insulated duct work. Insulflex, featuring an "R" value of 4.2 with thick insulation, is a non-porous, double layered product that eliminates air	
	temperature range of 180°F to -40°F
	Dimensions: 3" metal -4" fabric -3" metal
	Seam: "Guard Loc"
leakage.	Tensile Strength: 70 lbs. x 70 lbs.
	Tear Strength: 8 lbs. x 11 lbs.
	Weight: (2 Thicknesses) 9 oz./sq. yd. ea. thickness

RESIDENTIAL/LIGHT COMMERCIAL APPLICATIONS

ECONOFAB	SPECIFICATIONS
For light commercial or	
larger residential systems.	Dimensions: 2 3/4" metal - 4" fabric - 2 3/4" metal
	Fabrics Supplied: Durolon, Excelon, Neoprene, Glasseal, Thermafab
	Seam: "Guard Loc"

JUNIOR CONNECTOR	SPECIFICATIONS
For residential systems.	Gauge: 28 Galvanized
	Dimensions: 1 3/4" metal - 3" fabric - 1 3/4" metal
	Fabrics Supplied: Durolon, Excelon, Neoprene, Glasseal, Thermafab
	Seam: "Guard Loc"

- All Duro Dyne Fabrics are designed to meet NFPA 701 (formerly UL 214.)
- All Duro Dyne Fabrics are designed to meet NFPA 90A & 90B.
- All Duro Dyne Fabrics are airtight and waterproof.

TRA /TRE CANNEATAR

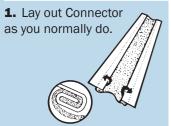
- All Duro Dyne Flexible Duct Connector utilize 24 or 28 gauge galvanized steel meeting ASTM-A-525 G60.
- Standard roll length 100 ft.

FABRICATING A FLEXIBLE CONNECTION

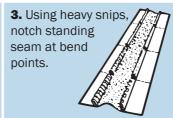
HOW TO STIFFEN FLEXIBLE CONNECTOR

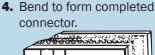
When installing large size flexible connectors in a duct system, some type of stiffening agent is usually required to keep the unit relatively rigid. Some contractors use angle iron, while in many cases a bar slip connection is used to achieve this result. Now it is possible to save valuable time and material by forming Duro Dyne's Grip Loc Seam found on Metal Fab and Super Metal Fab, to rigidize the connector over long sections. Here is how it is done: Dyne Flexible Connector can eliminate the costly addition of angle iron used to perform this job.

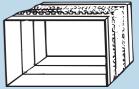
Note: The stiffening method illustrated here is recommended only with Duro Dyne Grip Loc Connector. This simple method of stiffening the sides of Duro









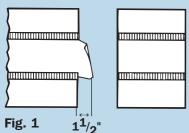


HOW TO SEAM FLEXIBLE CONNECTOR AT CORNER OF CONNECTOR

HERE IS HOW WE SUGGEST THE ENDS OF CONNECTOR BE PREPARED FOR MAKING A JOINT.

TO DO THIS:

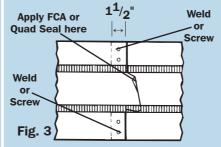
1. Cut through center of lock as indicated. Cut 1" to 1 1/2" deep to allow sufficient lap.



3. You have two options to finish your joint.

A. FCA

B. Duro Stapler with Quad Seal



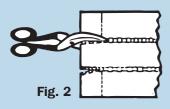
3B. Put a liberal amount of Quad Seal between the two fabric flaps & press the two pieces together to allow the Quad Seal to spread out. Roll the flap ends together & staple the seal (going through both pieces of fabric & the Quad Seal). Allow a minimum of 24 hours curing time before flexing the connection. For use with Excelon,

For use with Excelon, Neoprene, Durolon, Thermafab and Glasseal.

QS85 Quadseal 8 oz. can Item# 8159

Fig. 3B

2. From edge of connector, cut away metal as indicated. Metal falls away exposing fabric ready for seaming.



3A. Apply one or two lines of FCA, sparingly, on fabric, under tongue. Press tongue down on adhesive. Rub gently and hold for 10 seconds. For use with Excelon, Neoprene, Durolon and Glasseal.

FCA Adhesive 1 oz. bottles Item# 5090



4. For an airtight connection, apply duct sealer over metal joint. Refer to Duro Dyne's Adhesive Duct Sealer Catalog for further information on a suitable Duct Sealer.

Finished Joint

DURO STAPLER AND STAPLES

Duro Dyne's Flexible Connectors are preassembled metal-to-fabric which eliminates this difficult, time consuming shop operation. After forming the metal, the overlap can be riveted, screwed or spot welded.

Fabric seam is quickly closed using the handy **Duro Stapler**. The result is a sturdily constructed, low cost flexible connector which meets engineering specifications. See **Fabricating A Flexible Connection** above.

DSP-1 STAPLES For Use With DS DURO STAPLER QUANTITY: 5000

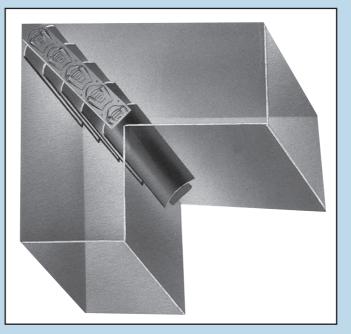
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VANE RAIL

Duro Dyne Vane Rail, made up of 24 gauge galvanized steel, is precision-stamped and slotted assuring uniform spacing of vanes, and the fastest, easiest, most economical construction of vane assemblies. Duro Dyne Vane Rail is specially embossed adding strength and sturdiness to the finished section, eliminating rattling. Vane Rail can be used to make quality turning vanes for any size elbow including change of size elbows.

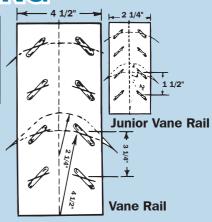
Air travelling throughout a duct is slowed up when it reaches a right turn angle. This "slow-up" is detrimental



to the efficiency of the duct system, therefore air turning vane assemblies are used to guide air evenly around such turns. With today's high labor costs, it is expensive for shops to produce their own air turning assemblies. That is why Duro Dyne Vane Rail is a major contribution to sheet metal shops that require efficient, vet inexpensive air turning assemblies. With Duro Vane Rail, which is a pre-fab side rail, layout time is eliminated. Vanes can be sheared from scrap metal without tab cutting, and quickly assembled to rails with only one blow of a ball peen hammer.

SPECIFICATIONS AND ORDERING

ITEM	CODE	DESCRIPTION
4002	VR-2	Vane Rail - 100 ft. Continuous Coils
4003	JVR-2	Junior Vane Rail - Two 100 ft. Continous Coils
		(Easily Dispensed Together or Singularly)



FABRICATING AIR TURNING VANES



Shear and form vanes as indicated. Position vanes in Vane Rail slot. Slots force vanes to take correct curve.



Secure the protruding vane with ball peen hammer.



Extra deep depression in Vane Rail allow for superior gripping action. Vane assembly is then fastened in elbow.

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