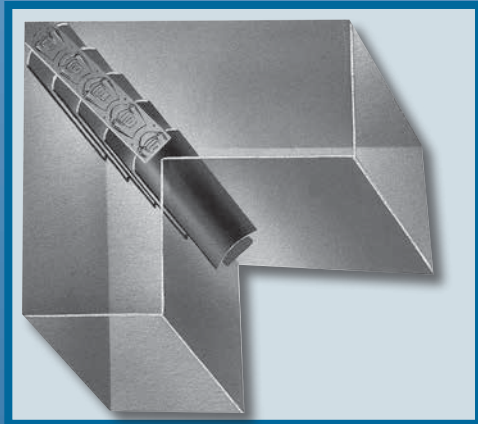




# FLEXIBLE DUCT CONNECTOR &

# VANE RAIL

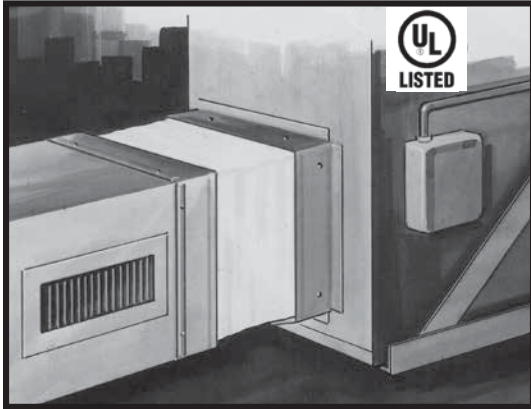


# PRODUCT CATALOG



# PRE-ASSEMBLED FLEXIBLE DUCT CONNECTOR

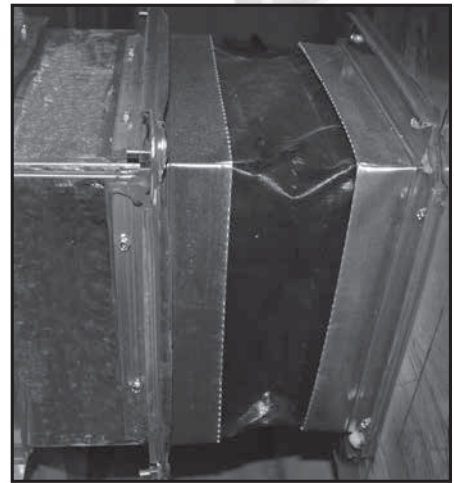
ELIMINATES DUCT SYSTEM NOISES AND VIBRATIONS



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 the 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.



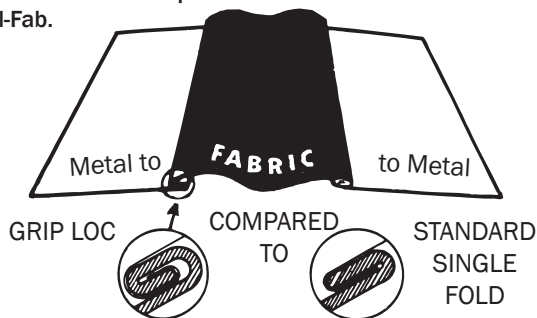
- All Duro Dyne Fabrics are designed to meet NFPA 701 (formerly UL 214.)
- All Duro Dyne Fabrics are designed to meet NFPA 90A & 90B.
- All Duro Dyne Fabrics are airtight and waterproof.
- Duro Dyne meets or exceeds the SMACNA steel requirements for flexible duct connector.
- All Duro Dyne Flexible Duct Connector utilize 24 or 28 gauge galvanized steel meeting ASTM-A-525 G60.
- Standard roll length - 100 ft.
- Certain Connectors are available with 300L series or 316L series stainless steel or aluminum. (See chart on pages 4-5 for availability)
- Flexible Duct Connector is manufactured in the United States for all markets and in the U.A.E. for Mid East and Overseas markets.
- Vane Rail is manufactured in the United States.

CANVAS, OTHER FABRICS & SIZES AVAILABLE AS SPECIAL ORDER.

NOTE: All specification values shown in this catalog are typical and will vary within accepted commercial tolerances.

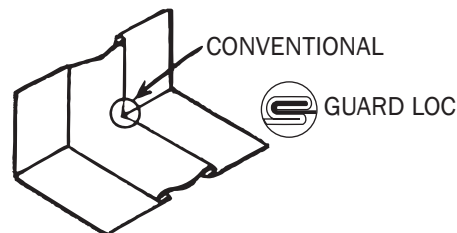
## GRIP LOC™

The double-lock gripping fingers of metal-to-fabrics adds tremendously to the holding power compared to the 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 a brake is simpler, and Guard Loc prevents tears in the fabric because of unique metal-shielded seams. Guard Loc is standard in Econ-O-Fab, Junior and Insulflex Connector.



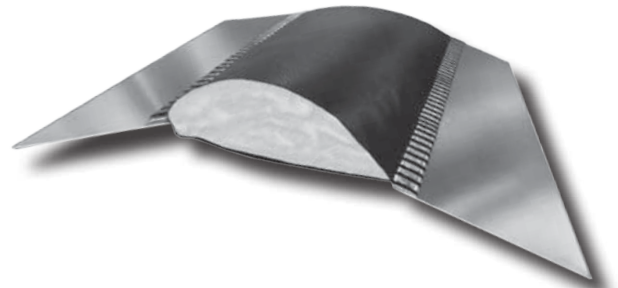
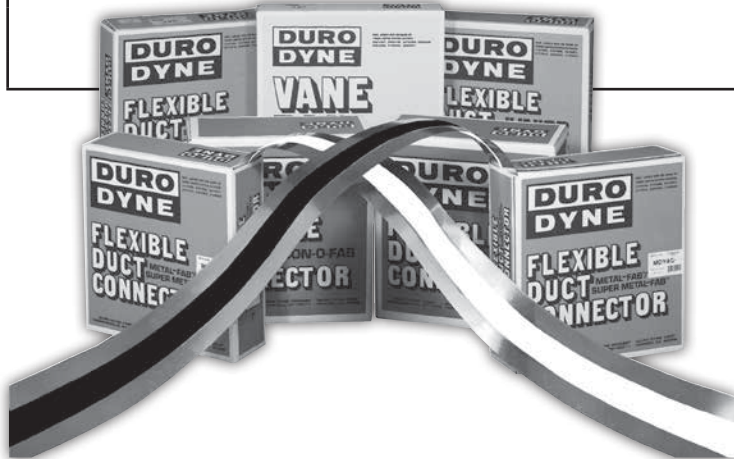
All Duro Dyne Flexible Duct Connector Products are suitable for pressures of -10 to +15 wg. Duro Dyne's standard 'single fold' metal to fabric grip has been tested by an independent testing laboratory to withstand a negative pressure of -10"WC and a positive pressure of +17.25" WC with no tearing or visible separation.

# INDUSTRIAL/COMMERCIAL APPLICATIONS

METAL-FAB®	SPECIFICATIONS
<p>Metal-Fab is constructed of material which meets the requirements of heavy commercial systems. This factory fabricated flexible duct connection will allow for normal vibration in large duct systems without inhibiting the effectiveness of the flexible duct connector.</p> <p><i>*Certain connectors available in 300L Series Stainless Steel.</i></p>	Gauge: 24 Galvanized
	Dimensions: 3" metal - 3" fabric - 3" metal
	Fabrics Supplied: Durolon, Excelon®, Neoprene, Glasseal, Thermafab®, Teflon
	Seam: Grip Loc

SUPER METAL-FAB®	SPECIFICATIONS
<p>Super Meta-Fab is constructed of material to provide for special commercial duct systems. Very large equipment can cause excessive vibration; to compensate for this, a wider fabric is used to eliminate the transmission of vibration to the duct.</p> <p><i>*Certain connectors available in 300L Series Stainless Steel.</i></p>	Gauge: 24 Galvanized
	Dimensions: 3" metal - 6" fabric - 3" metal
	Fabrics Supplied: Durolon, Excelon®, Neoprene, Glasseal, Thermafab®
	Seam: Grip Loc

TDC/TDF CONNECTOR	SPECIFICATIONS
<p>TDC/TDF Connector has ample material for roll forming a connecting flange on both sides of the flexible connection. This product is designed to be compatible with both TDC (Lockformer) and TDF (Engel) roll forming flange-fabricating equipment.</p> <p><i>*Certain connectors available in 300L Series and 316L Series Stainless Steel.</i></p>	Gauge: 24 Galvanized
	Dimensions: 4" metal - 4" fabric - 4" metal
	Fabrics Supplied: Durolon, Excelon®, Neoprene, Glasseal, Thermafab®, Dynalon, Teflon
	Seam: Grip Loc
	Also Available: 4" metal -6" fabric -4" metal






# RESIDENTIAL/LIGHT COMMERCIAL APPLICATIONS

ECON-O-FAB®	SPECIFICATIONS
<p>For light commercial or larger residential systems.</p>	Gauge: 28 Galvanized
	Dimensions: 2 ¾" metal - 4" fabric - 2 ¾" metal
	Fabrics Supplied: Durolon, Excelon®, Neoprene, Glasseal, Thermafab®
	Seam: Guard Loc

JUNIOR CONNECTOR	SPECIFICATIONS
<p>For residential systems.</p>	Gauge: 28 Galvanized
	Dimensions: 1 ¾" metal - 3" fabric - 1 ¾" metal
	Fabrics Supplied: Durolon, Excelon®, Neoprene, Glasseal, Thermafab®, Dynalon®
	Seam: Guard Loc

Reference: All steel gauges are as per SMACNA Standard, Appendix A-A.1 in *The HVAC Duct Construction Standards Metal and Flexible Third Edition 2005.*

# FABRICS

FABRIC COMPARISONS	Excelon®	Neoprene (Standard Grade)	Neoprene (Specification Grade)	Durolon
<b>UL Classified Listing #</b>	R4462	R4462	R4462	R4462
<b>Continuous Temp. Range</b>	-40°F. to 180°F.	-40°F. to 200°F.	-40°F. to 200°F.	-40°F. to 250°F.
<b>Color</b>	Black	Black	Black	White
<b>Commercial Grade Weight</b>	22 oz.	22 oz.	30 oz.	26 oz.
<b>Residential Grade Weight</b>	17 oz.	22 oz.	30 oz.	26 oz.
<b>Abrasion Resistance<sup>1</sup></b>	15,000 cycles	600 cycles	600 cycles	500 cycles
<b>Leakage Resistance<sup>2</sup></b>	350	595	595	250
<b>Tear Strength<sup>3</sup></b>	100 lbs. / 100 lbs.	12 lbs. / 12 lbs.	12 lbs. / 12 lbs.	12 lbs. / 12 lbs.
<b>Tensile Strength<sup>4</sup></b>	240 lbs. / 220 lbs.	500 lbs. / 450 lbs.	500 lbs. / 450 lbs.	225 lbs. / 300 lbs.
<b>Base Fabric</b>	Woven Nylon/Polyester Blend	Woven Fiberglass	Woven Fiberglass	Woven Fiberglass
<b>Coating</b>	Vinyl	Neoprene	Neoprene	Hypalon
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent water resistance</li> <li>• Excellent tear strength</li> <li>• Excellent all purpose fabric</li> <li>• Unaffected by mildew</li> </ul>	<ul style="list-style-type: none"> <li>• Extremely resistant to alkalis &amp; gasoline</li> <li>• Excellent on systems exposed to toxic fumes</li> <li>• Good general purpose fabric</li> <li>• Unaffected by mildew</li> </ul>	<ul style="list-style-type: none"> <li>• Extremely resistant to alkalis &amp; gasoline</li> <li>• Excellent on systems exposed to toxic fumes</li> <li>• Good general purpose fabric</li> <li>• Unaffected by mildew</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent ozone resistance</li> <li>• Excellent resistance to weathering</li> <li>• Best overall acid resistance</li> <li>• Recommended for rooftop applications</li> <li>• Unaffected by mildew</li> </ul>
<b>Codes</b>				
<b>Metal-Fab®</b> <b>3x3x3</b> <b>Grip Loc</b> 	MBX333 (#10159) <b>Aluminum:</b> MBXAL333 (#10168) <b>Stainless:</b> MBXSS333 (#10231)	MLN333 (#10105)	MFN333 (#10003) <b>Aluminum:</b> MFNAL333 (#10098) <b>Stainless:</b> MFNSS333 (#10232)	MFD333 (#10002) <b>Aluminum:</b> MFDAL333 (#10097) <b>Stainless:</b> MFDSS333 (#10234)
<b>Super Metal-Fab®</b> <b>3x6x3</b> <b>Grip Loc</b> 	MB6X363 (#10160)	ML6N363 (#10148)	MF6N363 (#10012)	MF6D363 (#10011)
<b>TDC/TDF</b> <b>4x4x4</b> <b>Grip Loc</b>   <b>*4x6x4 also noted</b>	MBX444 (#10210) MBX464* (#10214) <b>Aluminum:</b> MBXAL444 (#10258) <b>Stainless:</b> MBXSS444 (#10259) MBX316SS444 (#10275) MBXSS464* (#10262)	Not Available	MFN444 (#10211) MFN464* (#10246) <b>Stainless:</b> MFNSS444 (#10260)	MFD444 (#10237) MFD464* (#10245) <b>Stainless:</b> MFD316SS444 (#10276)
<b>Econ-O-Fab® Guard Loc</b>	EBX (#10171)	EFN (#10035)	Not Available	EFD (#10034)
<b>Junior Guard Loc</b>	JBX (#10169)	JRN (#10028)	Not Available	JRD (#10027)
<b>Fabric Only (100ft. length)</b>	DBX6 (#10161) 6" wide DBX10 (#10162) 10" wide	Not Available	DFN6 (#10043) 6" wide DFN10 (#10051) 10" wide	DFD6 (#10042) 6" wide DFD10 (#10050) 10" wide

All Duro Dyne Flexible Duct Connector utilize 24 or 28 gauge galvanized steel meeting ASTM-A-653 G60; other materials are available upon request. Stainless Steel configurations utilize 300L or 316L grade material. Aluminum configurations have an alloy and temp: 3003-H14 and thickness: .032".

