

Specification Form DDFDC Flexible Duct Connector

DESCRIPTION

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 attached to sheet metal on both side, must be inserted between the equipment and the ductwork. This vibration isolator is called a "Flexible Duct Connector".



RELATED NFPA 90A & 90 BSTANDARDS

2-3.2.2 Vibration isolation connectors in duct systems shall be made of an approved flame-retardant fabric or shall consist of sleeve joints with packing of approved material, each having a maximum flame spread index of 25 and a maximum smoke developed index of 50. Exception: Approved flame-retardant fabric having a maximum length of 10 in. (45.4 cm) in the direction of airflow-NFPA No. 90A 1999

2-1.1.1 Exception No. 3: Vibration isolation connectors in duct systems shall be made of approved flame-retardant fabric or shall consist of sleeve joints with packing of approved noncombustible material. The fabric shall not exceed 10 in. (254 mm) in length in direction of airflow-NFPA No. 90B 1999

"GRIPLOC"

"METAL - FAB"

Gauge: 24* Dimensions: 3" metal-3" fabric- 3" metal Seam: "Grip Loc"

FABRIC METAL to to METAL

"SUPER METAL - FAB"

Gauge: 24 Dimensions: 3" metal-6" fabric- 3" metal Seam: "Grip Loc"

					/		
FABRIC COMPARISONS	Envirofab	Dynalon	Excelon ⁴	Neoprene	Durolon	Insulflex*	Thermafab
Continuous Temp. Range	-40°F 200°F.	-40°F 280°F.	-40°F. to 180°F.	-40°F. to 200°F.	-40°F. to 250°F.	-40°F. to 180°F.	-65°F. to 500°F.
Color	Black/White	White	Black or Spec Chek Orange	Black	White	Black	Grey
Weight Per Square Yard	18	24	22	30	26	28(composite weight)	17
Leakage Resistance ¹	350	250	350	595	250	125	400
Tear Strength ²	60 x 80	110 x 100	100/100	12/12	12/12	8/11	50/40
Tensile Strength ³	200 x 190	280 x 235	240/220	500/450	225/300	70/70	200/150
Features	"Green"	Highly Flexible	High Tear Strength	General Purpose	Excellent Ozone	Low Smoke	Very Low Smoke
	10% recycled content	UV resistant	High Abrasion		and Weathering	Emission	Emission.
	UV reflective	excellent	Resistance.		Resistance.	Insulated	High Temperature
	puncture resistant	weathering			Best Overall Acid	3-4-3	Resistant.
					Resistance.	Configuration.	
Codes							
Metal-Fab	MEV4-100(#10301)	MYL4-100(#10316)	MBX(#10159) MSPX(#10263)	MFN(#10003)	MFD(#10002)	IDC(#10173) *Gauge: 28	MFT(#10005)
Super Metal-Fab			MB6X(#10160) MSP6X(#10265)	MF6N(#10012)	MF6D(#10011)		MF6T(#10013)
TDC/TDF	MEV4x4x4(#10300)	MYL4x4x4(#10315)	MBX4x4x4(#10210) MSPX4x4x4(#10264) MBX4x6x4(#10214)	MFN4x4x4(#10211) MFN4x6x4(#10246)	MFD4x4x4(#10237) MFD4x6x4(#10245)		
			MBX4x6x4(#10214)				

Notes:

1. Leakage resistance as per Federal Test Standard 191 Method #5512. Results in P.S.I. (To convert inches of water multiply P.S.I. x 27.176.).

- 2. Tear strength in tongue pounds as per Federal Test Standard 191 Method #5134.1 (warp/fill).
- 3. Tensile strength in grab pounds as per Federal Test Standard 191 Method #5100 (warp/fill).

4. Standard Excelon is not LA city approved. Use Excelon-LA when LA city approval is necessary. (See Specification Form Excelon-LA - 203)

SUGGESTED SPECIFICATION

Vibration Isolating Flexible Duct Connector For Heating, Cooling & Exhaust Supplies & Returns.

At the inlet and discharge of all air handling equipment(unless otherwise noted) furnish and install vibration isolators. Vibration isolators shall be a coated woven fabric named and shall be "Underwriters Laboratories Classified".

_, an abrasion resistance of not less than Vibration isolators shall have a tear strength of not less then and a continuous temperature range of .Vibration isolators shall be preassembled metal to exposed fabric to metal. Fabric and metal shall be joined by means of a double lock seam.

Vibration isolators shall be code (called Flexible Duct Connectors) as manufactured by Duro Dyne Corporation, Bay Shore, N.Y.