

**SUBMITTAL RECORD**

JOB \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 SUBMITTED TO \_\_\_\_\_  
 SUBMITTAL PREPARED BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_  
 DATE \_\_\_\_\_

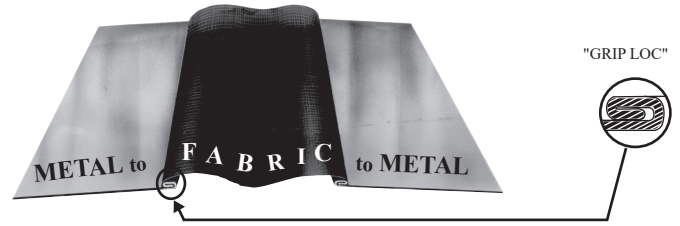
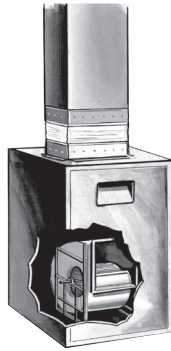


**Specification Form  
 Stainless DDFDC  
 Flexible Duct Connector**

**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".



FABRIC COMPARISONS	Excelon <sup>®4</sup>	Neoprene	Durolon	Teflon
Continuous Temp. Range	-40°F. to 180°F.	-40°F. to 200°F.	-40°F. to 250°F.	-150°F. to 500°F.
Color	Black	Black	White	Grey Outside/ Beige Inside
Weight Per Square Yard	22	30	26	16.5
Leakage Resistance <sup>1</sup>	350	595	250	650
Tear Strength <sup>2</sup>	100/100	12/12	12/12	50/30
Tensile Strength <sup>3</sup>	240/220	500/450	225/300	400/300
ASTM E84 (Flame/Smoke)	10/250	10/55	10/120	0/5
NFPA 701	Yes	Yes	Yes	No
Base Fabric	Woven Nylon/ Polyester Blend	Woven Fiberglass	Woven Fiberglass	Fiberglass/Stain Weave
Coating	Vinyl	Neoprene	Hypalon	Teflon
Features	High Tear Strength High Abrasion Resistance	General Purpose	Excellent Ozone and Weathering Resistance Best Overall Acid Resistance	High Temperature Resistance High Corrosion Resistance Excellent Chemical Resistance
Metal-Fab 3x3x3 Grip Loc <sup>+</sup>	MBXSS333 (#10231)	MFNSS333 (#10232)	MFDSS333 (#10234)	MCTSS333 (#10292)
TDC/TDF 4x4x4 Grip Loc	MBXSS444 (#10259) MBX316SS444 (#10275)	MFNSS444 (#10260)	MFD316SS444 (#10276)	MCTSS444 (#10293)
TDC/TDF 4x6x4 Grip Loc	MBXSS464 (#10262)	N/A	N/A	N/A

All stainless steel Flexible Duct Connector is manufactured by Duro Dyne with stainless steel type 3004 stainless except those with 316 in the description (#10275 & #10276), .015 in thickness, with a 2B finish.

\*304 stainless steel: Item # 10231, 10232, 10234, 10259, 10260, 10262, 10292 and 10293

\*316 stainless steel: Item # 10275, 10276

**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)

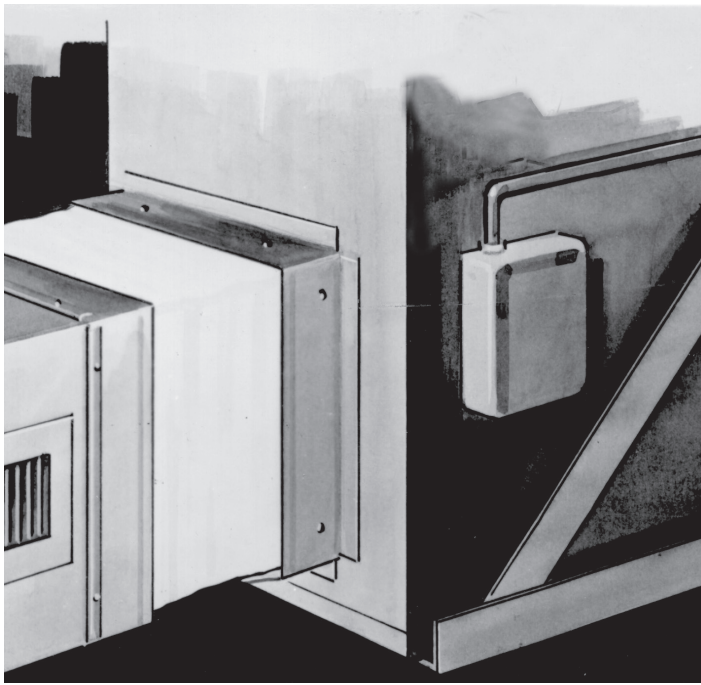
**SUGGESTED SPECIFICATION**

**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".

Vibration isolators shall have a tear strength of not less than \_\_\_\_\_, an abrasion resistance of not less than \_\_\_\_\_, 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.



## Specifications

All Listed Duro Dyne Flexible Duct Connector Fabrics are designed to meet the following specifications:

1. MIL-C-20696B Para. 4.4.3. (Oil Resistance).
2. MIL-C-20696B Para. 4.4.4. (Hydro Carbon Resistance).
3. NFPA701 Tests for Flame Propagation of Fabrics and film (except Teflon).
4. California State Fire Marshal Approved.
5. Los Angeles City Approved. (See note 1 below)
6. Denver City Approved.

## CHEMICAL RESISTANCE

(X = Extremely Resistant)

(~ = Not Recommended)

(O = No Data Available)

Chemical	Excelon	Neoprene	Durolon	Teflon	Chemical	Excelon	Neoprene	Durolon	Teflon
Acetic Acid	~	X	X	X	Hydrofluoric Acid (100%)	~	X	X	X
Aluminum Chloride	X	X	X	X	Hydrogen Peroxide	X	~	X	NR
Aluminum Sulfate	X	X	X	X	Hydrogen Sulfide	X	X	X	X
Ammonia (Anhyd)	X	X	X	X	Lactic Acid	~	X	X	X
Ammonium Hydroxide	X	X	X	X	Linseed Oil	~	X	X	O
Ammonium Sulfate	X	X	X	X	Magnesium Chloride	~	X	X	X
Barium Sulfide	X	X	X	X	Maleic Acid	X	~	X	O
Black Sulfate Liquor	X	X	X	X	Methyl Alcohol	~	X	X	X
Boric Acid	X	X	X	X	Methyl Cellosolve	~	X	X	O
Butyl Alcohol	~	X	X	X	Mineral Oil	X	X	X	X
Cadmium Plating Solution	X	~	~	O	Naptha	~	~	~	X
Calcium Chloride	X	X	X	X	Nickel Chloride	X	X	X	X
Calcium Hypochlorite	X	~	X	X	Nickel Sulfate	X	X	X	X
Chlorine Water	X	~	~	O	Nitric Acid (40%)	X	~	X	X
Chromic Acid	X	~	X	X	Oleic Acid	X	~	~	X
Chromium Plating Solution	X	O	O	O	Oleum	~	~	X	X
Citric Acid	X	X	X	X	Oxalic Acid	X	X	X	X
Copper Chloride	X	X	X	X	Phosphoric Acid (85%)	~	X	X	X
Copper Sulfate	X	X	X	X	Pickling Solution	X	~	X	O
Cottonseed Oil	X	X	X	O	Potassium Chloride	X	X	X	O
Diacetone Alcohol	~	X	X	O	Potassium Cyanide	X	X	X	X
Disodium Phosphate	X	~	~	O	Potassium Dichromate	X	X	X	X
Ethyl Alcohol	~	X	X	X	Potassium Hydroxide (40%)	X	X	X	X
Ethylene Glycol	~	X	X	X	Potassium Sulfate	X	X	X	X
Ferric Chloride	X	X	X	X	Propyl Alcohol	~	X	X	O
Ferric Sulfate	X	X	X	X	Sodium Chloride	X	X	X	X
Fluoroboric Acid	X	X	X	O	Sodium Hydroxide (40%)	~	X	X	X
Formaldehyde (40%)	X	X	X	X	Sodium Hypochlorite	~	~	X	X
Formic Acid	X	X	X	X	Steam	~	X	~	X
Glucose	X	X	X	X	Sulfur Dioxide (Liquid)	~	X	X	X
Glycerine	~	X	X	X	Sulfuric Acid (50%)	X	~	X	X
Heptane	~	X	X	X	Sulfuric Acid (over 50%)	~	~	X	X
Hexane	~	X	X	X	Tannic Acid	X	X	X	X
Hydrobromic Acid (40%)	~	X	X	X	Vinegar	X	X	X	X
Hydrochloric Acid (conc)	~	X	X	X					

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Printed in USA 3/29/19

BO01411