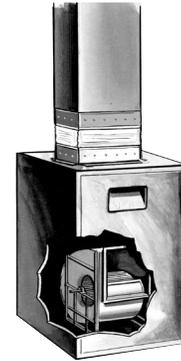


**SUBMITTAL RECORD**

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



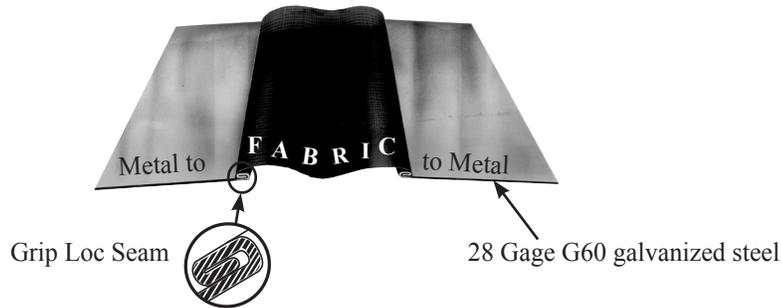
# Specification Form EXCELON ME Flexible Duct Connector



**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 airtight flexible joint, consisting of a fabric which is attached to sheet metal on both sides, must be inserted between the equipment and the ductwork. This vibration isolator is called a "Flexible Duct Connector."



**EXCELON ME**

<b>Continuous Temp. Range</b>	<b>-40° to 180° F</b>
<b>Color</b>	<b>Black</b>
<b>Base Fabric</b>	<b>Woven Ployester</b>
<b>Coating</b>	<b>Vinyl</b>
<b>Weight Per Square Yard</b>	<b>10/12 oz</b>
<b>Leakage Resistance 1</b>	<b>350 psi</b>
<b>Tear Strength 2</b>	<b>100/100 lbs</b>
<b>Tensile Strength 3</b>	<b>240/220 lbs</b>

**Codes**

<b>Metal-Fab (3"x3"x3")</b>	<b>MBX333ME (#10359)</b>
<b>Super Metal-Fab (3"x6"x3")</b>	<b>MB6X363ME (#10357)</b>
<b>TDC / TDF (4"x4"x4")</b>	<b>MBX444ME (#10358)</b>
<b>JUNIOR (1 3/4" x 3" x 1 3/4")</b>	<b>JBXME (10374)</b>

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).

Duro Dyne Neoprene, Durolon, Teflon, Thermafab and Excelon fabrics were subjected to a 1000 hour accelerated weathering and UV test per ASTM G155 with no noticeable signs of degradation.

**SUGGESTED SPECIFICATION**

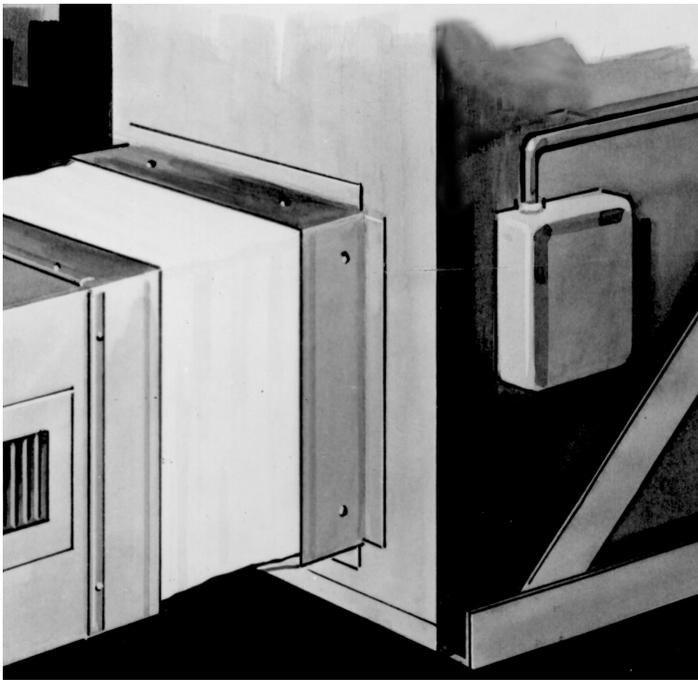
**Vibration Isolating Flexible Duct Connector for Heating, Cooling & Exhaust Supplies & Returns.**

At the inlet and discharge of all air handling equipment (unless otherwise noted) furnish and install vibration isolators. Vibration isolators shall be a Vinyl coated woven fabric named excelon ME and Meets NFPA 90A & NFPA 90B.

Vibration Isolators shall be preassembled metal to exposed fabric to metal. Fabric and metal shall be joined by means of a Grip Loc seam.

Vibration Isolators shall have a Tear Strength of not less than 100/100 lbs, and a continuous temperature range of -40° to 180° F.

Vibration Isolators shall be Code \_\_\_\_\_ (called Flexible Duct Connectors) as manufactured by Duro Dyne Corporation, Bay Shore, N.Y.



**DURO  
DYNE**<sup>®</sup>  
SPECIFICATIONS

Duro Dyne Excelon ME 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. NFPA 90A Installation of Air Conditioning and Ventilating Systems Para. 2-3.2.2 1999 Edition.
4. NFPA 90B Warm air heating and air conditioning systems. Para. 2-1.1.1 exc. no 3 1999 Edition.
5. NFPA 701 Tests for Flame Propagation of Fabrics and film.
6. California State Fire Marshal Approved.
7. Denver City Approved.

All Duro Dyne Flexible Duct Connectors utilize galvanized steel meeting ASTM-A-525 G 60.

**CHEMICAL RESISTANCE**  
(X = Extremely Resistant)  
(- = Not Recommended)  
(O = No Data Available)

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

Duro Dyne East Division, Bay Shore, NY  
Duro Dyne Midwest Division, Hamilton, OH  
Duro Dyne West Division, Fontana, CA  
Duro Dyne Canada, Lachine, Quebec, Canada

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