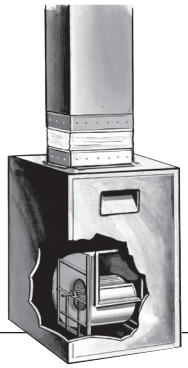
SUBMITTAL RECORD
JOB _____
LOCATION _____
SUBMITTED TO _____
SUBMITTAL PREPARED BY _____
APPROVED BY _____
DATE _____

Specification Form TECHNOPRENE MFRN Flexible Duct Connector

DESCRIPTION

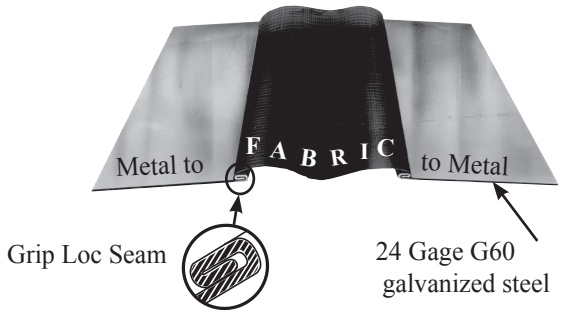
All air duct installations for heating, cooling or ventilation are attached to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.

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."



TECHNOPRENE MFRN

Description:	**Neoprene Coated Fiberglass**
Specific Weight: **CAN/CGSB-4.2 m90 method 5.1**	**22 oz**
Thickness: **CAN/CGSB-4.2 m02 method 37**	**24 mil +/-2**
Breaking Strength: **Fed. Std. 191A method 5100**	**W: 475 lbs minimum** **F: 375 lbs minimum**
Tearing Strength: **ASTM D 2261-96**	**W: 25 lbs** **F: 20lbs**
Hydrostatic Resistance: **Fed. Std. 191A method 5512**	**500 psi minimum**
Flame Resistance: **Fed. Std. 191A method 5903**	**After flame: 0 sec** **After glow: 0 sec** **Char length: 0 inch**
Adhesion: **Fed. Std. 191A method 5970**	**8 lbs/ 2 '' minimum**
Cold Resistance: **ASTM D-2136, after 4 hrs at -40°F**	**No crack**
Heat Resistance: **ASTM D-572, after 96 hrs at 392°F**	**No crack**



Benefits:
- **NFPA 701 certified**
- **water resistant**
- **flame resistant**
- **resistant to low temperature**
- **upper limit continuous use: (200°F)**

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).

SUGGESTED SPECIFICATION

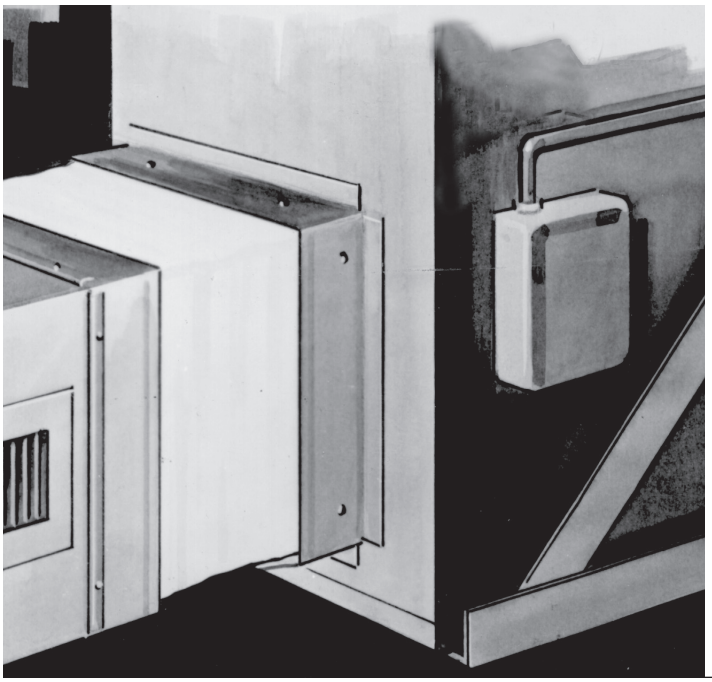
Vibration Isolating Flexible Duct Connector for Heating, Cooling & Exhaust Supplies & Returns.

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

Vibration Isolators shall have a Tear Strength of not less than 18/24 lbs, and a continuous temperature range of -40° to 200° F.

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 be Code_____
(called Flexible Duct Connectors) as manufactured by Duro Dyne Corporation, Bay Shore, N.Y.



DURO DYNE®

SPECIFICATIONS

Duro Dyne Technoprene MFRN 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. NFPA701 Tests for Flame Propagation of Fabrics and film.
6. BS476 Part 7 Class I Method For Classification of the Surface Spread of Flame of Products

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

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