

SUBMITTAL RECORD

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



Submittal Form
Excelon®
JBX (#10169)
Flexible Duct Connector
Junior 1-3/4" x 3" x 1-3/4"

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."



Continuous Temp. Range	-40°F. to 180°F
Color	Black
Weight Per Square Yard	20 oz.
Abrasion Resistance ¹	15,000 cycles
Leakage Resistance ²	350
Tear Strength ³	100/100
Tensile Strength ⁴	240/220
ASTM E84 Rating (Flame/Smoke)	10/75
NFPA 701	No

FEATURES

- Excellent water resistance
- Excellent tear strength
- Excellent all purpose fabric
- Unaffected by mildew

1. Abrasion resistance as per Federal Test Standard 191 Method #5306 using CS 17 wheel with 250 Gram load.
2. 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.).
3. Tear strength in tongue pounds as per Federal Test Standard 191 Method #5134.1 (warp/fill).
4. Tensile strength in grab pounds as per Federal Test Standard 191 Method #5100 (warp/fill).
5. Standard Excelon is not LA city approved. Use Excelon-LA when LA city approval is necessary.

Program: ASTM E84 (Version 1.61)

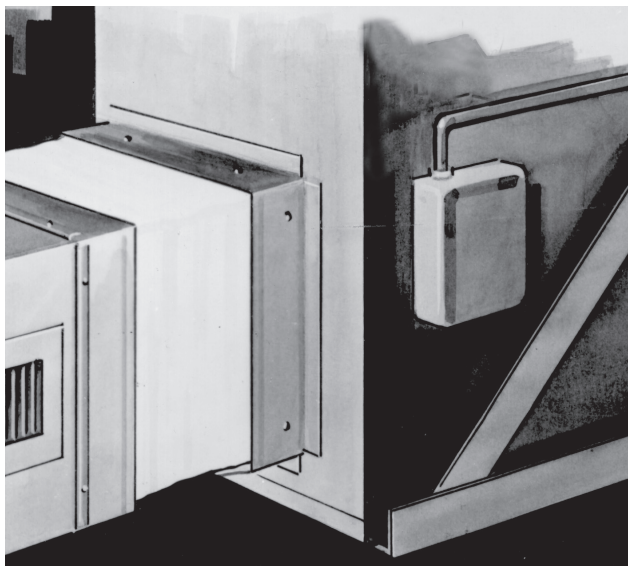
Test Method	
Test Report #	: 3-32710-0-X
Date	: 6/4/2019
Client	: Duro Dyne Corp
Operator	: Jillian Brown
Details of Preparation	: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 24 ft specimen was comprised of three 24 ft pieces rolled out alongside one another.
Observations	: No unusual observations
Area Under Flame Curve (ft min)	: 0.00
Raw Flame Spread Index (ft min)	: 0.00
Rounded Flame Spread Index (ft min)	: 0
Ignition Time	: 00:14 mm:ss
Area Under Smoke Curve (%A min)	: 74.95
Raw Smoke-Developed Index	: 74.31
Rounded Smoke-Developed Index	: 75
Total Gas Flow(L)	: 1434.7
Total Gas Flow(ft³)	: 50.7
Maximum Flame Front Achieved(ft)	: 0 (@0s)

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 Excelon. Vibration Isolators shall have a Tear Strength of not less than 100/100, and a continuous temperature range of -40°F. to 180°F. 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 **JBX** (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. (**See note below)
5. Denver City Approved.

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

Duro Dyne Flexible Duct Connectors are also available with 300 series stainless steel or 3003 aluminum upon request.

**Note - Standard Excelon is not LA city approved. Use Excelon-LA when LA city approval is necessary. (See Submittal Form for Excelon-LA)

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 (cone)	-		

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