

HUSHCORE™ **LINEAR™** System

Model HLM-100N

Fiber-Free Non-Fiberglass Duct Liner

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The work consists of furnishing a HUSHCORE™ **LINEAR™** System for HVAC duct systems as described in this specification.
- B. Install **LINEAR™** System in ductwork where indicated on the drawing.

1.2 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section []
- B. Include product description, thickness and composition, location and manufacturer's recommended method of installation/attachment.

1.3 QUALITY ASSURANCE

- A. Installation: Company specializing in mechanical insulation application with minimum five years experience on similar type projects.
- B. All adhesives, cements, finishes, jackets, etc. shall be compatible with the insulation and its method of attachment.
- C. Mineral wool, fiberglass or other products with respirable fibers are not acceptable.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. **BRD Noise and Vibration Control, Inc.**, PO Box 127, 112 Fairview Avenue, Wind Gap, PA, 18091, Phone: (610) 863-6300, Fax: (610) 863-4230, E-mail: info@brd-nonoise.com, Website: www.Hushcore.net.
- B. Alternates must be submitted and approved 10 days prior to project bid date as “or equal” compliant.

2.2 **LINEAR™ SYSTEM ACOUSTICAL FOAM FIBER FREE DUCT LINER**

- A. HUSH LINER™ model HLM-100-N
 - 1. Material is 1” thick light grey open cell acoustical foam.
 - 2. Core density shall be 0.5 to 0.7 lbs/cubic ft. per ASTM D3574-77.
- B. Product shall meet Class “A” per ASTM E84 flammability.
- C. Air erosion evaluation shall comply with UL 181, section 16
- D. Long term service temperature is 302°F maximum
- E. Fungus Resistance Rating #0 per ASTM G21
- F. Mold Growth passes UL 181 section 11
- G. Acoustical Performance
 - 1. Insertion Loss in accordance with ASTM E 477-99 shall be as listed below in dB per ft. for both forward flow and reverse flow conditions.

HUSH LINER™ (HLM-100-N), 1" thick – Insertion Loss (dB/ft) per ASTM E477-99										
Flow Direction	Flow (FPM)	P.D. (in. w.c.)	63 Hz	125	250	500	1K	2K	4K	8K
Forward Flow	0	0.000	0.00	0.12	0.49	2.18	4.37	2.66	2.22	2.26
	1000	0.024	0.00	0.13	0.45	2.10	4.32	2.67	2.29	2.25
	2000	0.094	0.00	0.09	0.43	2.05	4.30	2.77	2.35	2.23
	2500	0.148	0.00	0.04	0.40	2.00	4.28	2.73	2.32	2.22
HUSH LINER™ (HLM-100-N), 1" thick – Insertion Loss (dB/ft) per ASTM E477-99										
Flow Direction	Flow (FPM)	P.D. (in. w.c.)	63 Hz	125	250	500	1K	2K	4K	8K
Reverse Flow	1000	0.000	0.00	0.21	0.52	2.25	4.37	2.55	2.29	2.12
	2000	0.094	0.00	0.20	0.65	2.39	4.32	2.66	2.33	1.97
	2500	0.148	0.00	0.20	0.69	2.44	4.39	2.75	2.31	1.91

PART 3 – EXECUTION

3.1 SITE CONDITIONS

- A.** Verify that site conditions are ready to receive work in compliance with manufacturer recommendations.
- B.** Commencement of installation indicates acceptance of site conditions by the installer.
- C.** Maintain ambient temperatures and conditions required by manufacturers of adhesives, mastics and insulation cements during and after installation for a minimum period of 24 hours.
- D.** Insulation shall be protected from moisture and weather during storage and installation.

3.2 INSTALLER SCOPE OF WORK

- A.** Install materials and accessories in accordance with manufacturer's written instructions.
- B.** Compatible adhesive for the HUSH LINER™ product shall be supplied with the material.