Eastern Sheet Metal

DUAL WALL INSULATION

APPLICATION

Our standard insulation for dual wall applications is an unfaced fiberglass blanket. Installed in spiral duct behind a perforated inner shell this insulation will not erode and will provide superior noise and thermal performance.

SPECIFICATION COMPLIANCE

NFPA 90A/90B

Conforms to ASHRAE 62-2001

AVAILABILITY AND THERMAL PERFOMANCE

THICKNESS		R-VALUE		K-VALUE	
IN	MM	IP	SI	IP	SI
1	25	4.2	0.74	0.24	0.035
2	51	8	1.41	0.24	0.035

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
Operating Temp	ASTM C 411	350°F / 176°C
Maximum Air Velocity	ATTM C 1071	4,000 fpm / 20.3 m/s
Fungi Resistance	ASTM C 1338	Meets Standard
Corrosion	ASTM C 665	Meets Standard
Thermal Conductivity	ACTM C 518	Btu·in/hr·°F = .24
Thermal Conductivity	ACTM C 518	W/m·°C = .035
Surface Burning Characteristics		
Flame Spread	ASTM E84 AND UL723	25
Smoke Developed		20

SOUND ABSORPTION COEFFICIENTS

THICKNESS		OCTAVE BAND CENTER FREQUENCIES (Hz)						
IN	MM	125	250	500	1000	2000	4000	NRC
1	25	0.11	0.38	0.71	0.9	0.95	0.91	0.75
2	51	0.15	0.77	1.11	1.08	1	1.08	1

LIMITATIONS

Do not use with wood or coal fired equipment, or equipment of any type that does not include maximum temperature controls and where operating temperatures of 350°F / 176°C may be exceeded.

Do not use in kitchen or fume exhaust ducts, or any ducts conveying solids or corrosive gases.

Do not use in any application where the duct liner may come in direct contact with liquid water, such as cooling coils, humidifiers, and evaporative coolers, unless protected from the water source.

Do not use adjacent to high temperature heating coils.