



Product Information

Heating and Air Conditioning

Fiberglas® All-Service Duct Wrap

Description

Fiberglas® All-Service Duct Wrap insulation is a blanket of glass fibers, factory-laminated to a Foil-Scrim-Kraft (FSK) vapor retarder facing.

Fiberglas All-Service Duct Wrap insulation is used to insulate commercial and residential heating, air conditioning and dual-temperature ducts operating at temperatures from 4°C to 121°C. This insulation, when applied in accordance with installation instructions, will provide the “Installed R-Value” as published for the product and printed on the facing, thus assuring specified in-place thermal performance and condensation control.

Features/Benefits

■ Assured Thermal Performance

When installed in accordance with instructions, so that compression is controlled, Fiberglas All-Service Duct Wrap provides specified thermal performance. Operating costs are controlled due to reduction of heat loss or gain through sheet metal duct walls.

■ Enhanced Comfort Control

Fiberglas All-Service Duct Wrap helps heating and cooling systems to deliver conditioned air to occupied spaces at or near design temperatures. By conserving heating and cooling energy, HVAC systems may operate under reduced load.

■ Flexible, Easy Installation

Fiberglas All-Service Duct Wrap is easily cut to fit flat, curved or irregular duct surfaces for a neat, thermally-effective insulation blanket. Because it's easier to install than rigid boards, installation costs are lowered.

Physical Property Data

Property	Test Method	Specification															
Operating Temperature Range	ASTM C 411	-4°C to +121°C															
Corrosiveness	ASTM C 665	Chemically Inert															
Mold Growth	ASTM C 665	No Growth															
Moisture Absorption	ASTM C 1104	<3% by weight at 49°C; 90% R.H.															
Vapor Permeance	ASTM E 96	0.02 Perm Maximum															
Puncture Resistance	ASTM D 781	35 Beach Units Minimum															
Thermal Conductivity (k) At 24°C Mean	W/m•K	<table border="1"> <thead> <tr> <th>Type</th> <th>Type</th> <th>Type</th> <th>Type</th> <th>Type</th> </tr> <tr> <th>200</th> <th>240</th> <th>320</th> <th>400</th> <th>480</th> </tr> </thead> <tbody> <tr> <td>0.037</td> <td>0.036</td> <td>0.035</td> <td>0.033</td> <td>0.032</td> </tr> </tbody> </table>	Type	Type	Type	Type	Type	200	240	320	400	480	0.037	0.036	0.035	0.033	0.032
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0.037	0.036	0.035	0.033	0.032													
Flammability Characteristics	B.S. 476	Part 4 – Non-Combustible Part 5 – Ignitability Part 6 – Fire Propagation Part 7 – Surface Spread of Flame Class “O” Fire Rating to the Building Regulations Section E15															
Combustibility Characteristics	China National Standard	GB 5464-85: PASSED Non-Combustible															

* Mean temperature is the average of two temperatures: the air inside the duct and that of the ambient air outside it.

Sound Absorption Coefficients For Unfaced Fiberglas Insulation

Insulation Thickness	Sound Absorption Coefficients at Frequencies (Hz)						
	125	250	500	1000	2000	4000	NRC
Flexible							
25 mm	0.38	0.34	0.68	0.82	0.87	0.96	0.68
50 mm	0.44	0.66	1.07	1.06	0.99	1.06	0.95
Semi-Rigid							
25 mm	0.33	0.28	0.62	0.88	0.96	1.04	0.69
50 mm	0.38	0.63	1.10	1.07	1.05	1.05	0.96

No. 7 Modified: Insulation placed against 24-gauge sheet metal over a 406.4 mm air space. This mounting configuration is typical of a sheet metal enclosure with insulation on one side.

