

DESCRIPTION

Spiral SG Double Wall Insulation is a thermal and acoustical insulation designed for use in double wall spiral HVAC ducts. Spiral SG is made from rotary-process glass fibers bonded with a thermosetting resin.

ADVANTAGES

Spiral SG is offered in a range of densities and thicknesses to optimize thermal and acoustical performance. It is made from rotary-process glass fibers bonded with a thermosetting resin, improving tensile strength and flexibility. The resilient fiber glass blanket is resistant to damage during transportation and fabrication.

USES

Spiral SG offers improved tensile strength and flexibility that make it ideal for insulating double wall HVAC Ducts.

STORAGE

Spiral SG should be kept clean and dry during storage, transport, fabrication, installation, and system operation.

THERMAL CONDUCTIVITY

| Type | Density | | K Value 75°F (24°C) Mean Temp | |
|------|---------|-------------------|---------------------------------|--------|
| | PCF | KG/M ³ | BTU•in/(hr•ft ² •°F) | W/M•°C |
| 75 | 0.75 | 12 | 0.30 | 0.043 |
| 85 | 0.85 | 14 | 0.27 | 0.039 |
| 100 | 1.04 | 17 | 0.26 | 0.037 |
| 125 | 1.20 | 19 | 0.25 | 0.036 |
| 150 | 1.56 | 25 | 0.24 | 0.035 |

SUSTAINABLE BUILDING ATTRIBUTES



SPECIFICATION COMPLIANCE

| | | | |
|----------------|------|-------------|-------------|
| ASTM | E 84 | NFPA | 90A and 90B |
| CAN/ULC | S102 | UL | 723 |

PERFORMANCE SPECIFICATIONS

| | |
|---------------------------------|---|
| Service Temp Max | 350°F (177°C) |
| Corrosivity (ASTM C665) | Does not accelerate |
| Fire Hazard Classification | 25/50 - Labels supplied when requested on order |
| Microbial growth (ASTM C1338) | Does not breed |
| Surface Burning Characteristics | Max Flame Spread 25 Max Smoke Developed Index 50 |
| Water Sorption (ASTM C1104) | <5% by weight |

AVAILABLE SIZES

Type "A" Mounting Sound Absorption Coefficients*

| Type | Thickness | | Frequency (Hz) | | | | | | | NRC** |
|------|-----------|-----|----------------|------|------|------|------|------|------|-------|
| | IN. | MM. | 125 | 250 | 500 | 1000 | 2000 | 4000 | | |
| 85 | 1 | 25 | 0.11 | 0.31 | 0.60 | 0.80 | 0.90 | 0.93 | 0.65 | |
| | 2 | 51 | 0.16 | 0.60 | 0.92 | 0.98 | 0.97 | 1.01 | 0.85 | |
| 100 | 1 | 25 | 0.09 | 0.30 | 0.60 | 0.77 | 0.89 | 0.93 | 0.65 | |
| | 2 | 51 | 0.18 | 0.64 | 0.99 | 1.02 | 1.01 | 1.04 | 0.90 | |
| 150 | 1 | 25 | 0.10 | 0.28 | 0.62 | 0.84 | 0.95 | 0.97 | 0.65 | |
| | 2 | 51 | 0.22 | 0.71 | 1.03 | 1.08 | 1.05 | 1.02 | 0.95 | |

*Tested in accordance with ASTM C423 and ASTM E795

**Noise reduction coefficient



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of Spiral SG listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

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