

CertainTeed
SAINT-GOBAIN

1. PRODUCT NAME

2. MANUFACTURER

www.certainteed.com/insulation/hvac-mechanical

3. PRODUCT DESCRIPTION

Sizes: For available sizes, see table on other side.

4. TECHNICAL DATA

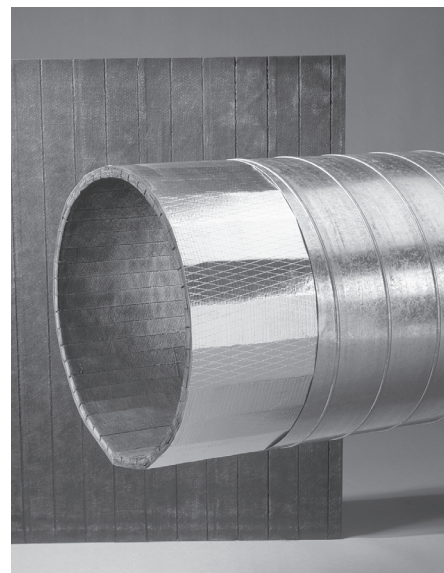
Applicable Standards:

- Fire Resistance:**

- < 3500 Btu/lb

Physical/Chemical Properties:

- < 3% by weight



- Pass; No Growth

THERMAL PERFORMANCE							
Product		K-Value		C-Value		R-Value	
Thickness		Btu•in. h•ft²•°F	W m•°C	Btu h•ft²•°F	W m²•°C	h•ft²•°F Btu	m•°C W
in.	mm						
1	25	0.23	0.033	0.23	1.31	4.3	0.76
1 1/2	38			0.15	0.87	6.5	1.15
2	50			0.12	0.65	8.7	1.53

Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value. Tested in accordance with ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature.

ACOUSTICAL PERFORMANCE								
Product		Absorption Coefficients @ Octave Band Frequencies (Hz)						
Thickness		125	250	500	1000	2000	4000	NRC
in.	mm							
1	25	0.07	0.21	0.74	0.98	1.05	1.04	0.75
1 1/2	38	0.12	0.49	1.02	1.10	1.06	1.07	0.90
2	50	0.17	0.76	1.05	1.02	0.95	0.96	0.95
Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.								

5. INSTALLATION

Installation procedures and techniques must be in accordance with the requirements of the NAIMA Fibrous Glass Liner Standard or the SMACNA HVAC Duct Construction Standard and the project specifications. Where NAIMA or SMACNA standards don't cover the unique requirements of lining spiral or oval duct systems, CertainTeed's installation procedures (30-33-007) should be followed.

ToughGard Ultra*Round is designed to be installed into most sizes of spiral metal ducts up to 38" in diameter, without mechanical fasteners or adhesives. However, when deemed necessary by the installer or project specifications, the product should additionally be secured, as required, to the sheet metal ductwork using mechanical fasteners (impact-driven or weld-secured). These fasteners vary in type and length. Fastener length must be such that the ToughGard Ultra*Round thickness is compressed no more than 10% of its design thickness. Maximum fastener spacing must be in accordance with NAIMA or SMACNA guidelines.

The product provides a clean "buttered" transverse edge. However, some circumstances will require the use of adhesive to butter raw exposed liner edges. Final job buttering may be required to coat duct cut-ins and/or minor installation damage. An HVAC commissioning program should be considered to assure proper start up and purging of the duct system.

6. AVAILABILITY AND COST

Manufactured and sold throughout the United States and Canada. For availability and cost contact your local contractor or distributor, or call CertainTeed Sales Support Group in Valley Forge, PA at 800-233-8990.

7. WARRANTY

Inasmuch as CertainTeed has no control over installation design, installation workmanship, accessory materials or conditions of applications, CertainTeed does not warrant the performance or results of any installation containing its products.

8. MAINTENANCE

An inspection and preventative maintenance program for the HVAC system is recommended to ensure optimum performance.

9. TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling CertainTeed in Valley Forge, PA at 800-233-8990.

10. FILING SYSTEMS

- Sweet's Catalog Files, 15075/CER
- CertainTeed Pub. No. 30-36-004
- Additional product information available upon request.

AVAILABLE SIZES								
Product			Dimensions		Application		Quantity/Pallet	
Type	Thickness		width x length		Metal Unfinished Duct Interior Dimensions		Pieces	Area
	in.	mm	in.	mm	in.	mm		
SD	1	25	48 x 120	1219 x 3048	12 to 26	305 to 660	45	1800 ft² 167.2 m²
LD					28 and larger	711 and larger		
SD	1 1/2	38			20 to 38	508 to 965	30	1200 ft² 111.5 m²
LD					40 and larger	1016 and larger		
SD	2	50					28 and larger	711



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