sustainable insulation®

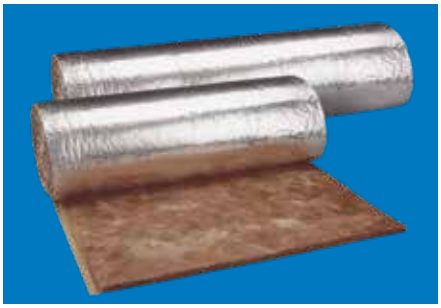
Specification Sheet

CertainTeed
SAINT-GOBAIN

SoftTouch™ and WideWrap™ Duct Wrap Insulation

Product Name	CertainTeed SoftTouch™ and WideWrap™ Duct Wrap Insulation
Manufacturer	CertainTeed Corporation
Address	20 Moores Road Malvern, PA 19355
Phone	800-233-8990
Website	www.certainteed.com/technicalinsulation

PRODUCT DESCRIPTION



Basic Use: SoftTouch™ and WideWrap™ Duct Wrap Insulation is used to insulate rectangular and round heating, ventilating and air-conditioning ductwork.

Benefits: SoftTouch and WideWrap provide thermal efficiency that reduces unwanted heat loss or gain from equipment and ductwork. When properly installed in the correct thickness, this product virtually eliminates condensation problems on cold duct surfaces. The 5′ width accommodates larger ducts and means less labor, less wasted material and a cleaner installed appearance.

Composition and Materials: SoftTouch and WideWrap Duct Wrap is a blanket-type insulation composed of tan, uniformly textured, inorganic fibrous glass formed with a formaldehyde-free, plant-based binding agent. It is available unfaced or with FSK or white PSK vapor retarder facing. On faced products, a stapling/taping tab is provided on one edge.

Limitations: The product should be kept clean and dry from the time of manufacture through job site installation and system operation.

SoftTouch and WideWrap are suitable for use with most heating, ventilating and air-conditioning ductwork operating at temperatures from 35°F to 250°F (1.7°C to 121°C) for faced SoftTouch and WideWrap Duct Wrap and from 35°F to 450°F (1.7°C to 232°C) for unfaced.

Sizes: See table on back for available sizes. Contact CertainTeed for other sizes and minimum order quantities.

INSTALLATION

Sheet metal ducts must be clean, dry and sealed tightly prior to insulating with CertainTeed SoftTouch and WideWrap Duct Wrap.

To ensure installed thermal performance, Duct Wrap must be cut to “stretch-out” dimensions. This requires measurement of the duct perimeter, then cutting the duct wrap to the dimensions (perimeter + add-on) indicated in the stretch-out table on the next page. A 2″ piece of insulation is removed from the facing at the end of the piece of insulation to form an overlapping stapling and taping flap.

TECHNICAL DATA

Applicable Standards

- Model Building Codes:
  - ICC
- Material Standards:
  - ASTM C1290
    Type I, Unfaced
    Type III, FSK & PSK – White
  - ASTM C553
    Type I, Type 75 Duct Wrap
    Type II, Type 100 & 150 Duct Wrap
    Type III, Type 150 Duct Wrap
  - CAN/CGSB-51.11-92
  - ASTM C1136: FSK & White PSK, Type II, Type IV
- Fire Safety Standards:
  - NFPA 90A, NFPA 90B

Fire Resistance

- Fire Hazard Classification:
  - UL 723, ASTM E84, CAN/ULC-S102
    Max. Flame Spread Index: 25
    Max. Smoke Developed Index: 50
- Non-Combustible:
  - ASTM E136
    Meets test requirements

Physical/Chemical Properties

- Thermal Performance:
  - See table on other side
- Operating Limits:
  - Temperature: ASTM C411
    Faced: Max. 250°F / 121°C
    Unfaced: Max. 450°F / 232°C
- Water Vapor Sorption:
  - ASTM C1104
    < 5% by weight
- Water Vapor Transmission – Facing:
  - ASTM E96, Desiccant Method
    FSK and white PSK: Max. 0.02 perms
    (1.15 x 10-9 g/Pa•s•m2)
- Corrosiveness:
  - ASTM C665 / Pass testing
- Fungi Resistance:
  - ASTM C1338 / Pass testing
- Odor Emission:
  - ASTM C1304 / Pass testing

Quality Assurance

CertainTeed’s commitment to quality and the environment has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001 and ISO 14001 Quality and Environmental Management System standards.

SoftTouch and WideWrap are installed by wrapping the insulation around the perimeter of the duct with the facing out. Adjacent sections of duct wrap are tightly butted with the 2" taping flap overlapping. Seams must be stapled with outward-clinching staples on approximately 6" centers. When a vapor retarder is required, all seams, joints, tears, punctures and/or other penetrations of the duct wrap must be sealed with a pressure-sensitive vapor retarder tape that matches the facing, or a suitable mastic system.

Where rectangular ducts are 24" in width or greater, Duct Wrap must be additionally secured to the bottom of the duct with mechanical fasteners spaced 18" on center to prevent sagging.

For additional installation details, consult the National Commercial and Industrial Insulation Standards (current edition) published by the Midwest Insulation Contractors Association (MICA).

AVAILABILITY AND COST

Manufactured and sold throughout the United States. Available in select Western U.S./Canada regions. For availability and cost, contact your local distributor or call CertainTeed Sales Support Group at 800-233-8990.

WARRANTY

Refer to CertainTeed's Limited Warranty for Fiberglass Duct Wraps (30-32-113).

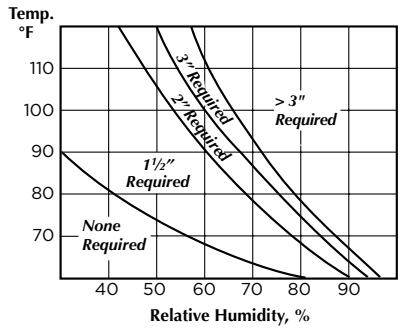
MAINTENANCE

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

TECHNICAL SERVICES

Technical assistance can be obtained either from your local CertainTeed sales representative, or by calling CertainTeed Sales Support Group at 800-233-8990.

CONDENSATION CONTROL



This chart is based on indoor conditions so far as wind and other factors are concerned.

To determine thickness to prevent condensation, based on installed thickness at 75% of nominal (out-of-package) thickness and a duct internal air temperature of 55˚F, refer to the condensation control chart.

To use:
1) Select maximum relative humidity (%) on lower axis;
2) Read up vertically until that line intersects the maximum ambient air temperature;
3) Select the thickness indicated at the point of intersection.

THERMAL PERFORMANCE

Product Type	Thickness in.	Thickness mm	Uncompressed R-Value h•ft²•°F/Btu	Uncompressed R-Value m²•°C/W	Installed Duct R-Value h•ft²•°F/Btu	Installed Duct R-Value m²•°C/W	Uncompressed K-Value Btu•in/h•ft²•°F	Uncompressed K-Value W/m•°C	Installed Duct K-Value Btu•in/h•ft²•°F	Installed Duct K-Value W/m•°C
75	1	25	3.4	0.61	2.8	0.49	0.29	0.042	0.27	0.039
	1½	38	5.2	0.91	4.2	0.74	0.29	0.042	0.27	0.039
	2	51	6.9	1.21	5.6	1.00	0.29	0.042	0.27	0.039
	2⅛	54	7.3	1.29	6.0	1.06	0.29	0.042	0.27	0.039
	3	76	10.3	1.82	8.3	1.46	0.29	0.042	0.27	0.039
	4	102	13.8	2.43	11.0	1.94	0.29	0.042	0.27	0.039
100	1	25	3.8	0.68	3.0	0.53	0.26	0.038	0.25	0.036
	1½	38	5.8	1.02	4.5	0.79	0.26	0.038	0.25	0.036
	2	51	7.7	1.35	6.0	1.06	0.26	0.038	0.25	0.036
150	1	25	4.2	0.73	3.2	0.56	0.24	0.035	0.23	0.033
	1½	38	6.3	1.10	4.8	0.85	0.24	0.035	0.23	0.033
	2	51	8.3	1.47	6.4	1.13	0.24	0.035	0.23	0.033

Tested in accordance with ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature. R means resistance to heat flow. The higher the R-value, the greater the insulating power. The installed R-value and K-value are based upon 25% compression of the product thickness during installation. To get the installed R-value, it is essential that this insulation be installed properly. If you do it yourself, follow the installation instructions carefully.

INSTALLATION STRETCH-OUT DIMENSIONS

Product Label Thickness in.	Product Label Thickness mm	Average Installed Thickness in.	Average Installed Thickness mm		Stretch-Out Dimensions[1] Round Duct in.	Round Duct mm	Square Duct in.	Square Duct mm	Rectangular Duct in.	Rectangular Duct mm
1	25	0.75	19	P+	7	178	6	152	5	127
1½	38	1.13	29	P+	9.5	241	8	203	7	178
2	51	1.50	38	P+	12	305	10	254	8	203
2⅛	54	1.59	40	P+	12.6	321	10.4	270	8.4	213
3	76	2.25	57	P+	17	432	14.5	368	11.5	292
4	102	3.00	76	P+	22	559	18.5	470	14.5	368

[1]The stretch-out dimension is equal to the duct perimeter (P) plus the add-on factor for the type of duct being installed.

AVAILABLE SIZES

Product Type	Thickness in.	Thickness mm	Length ft.	Length m	Width in.	Width mm
75	1	25	100	30.5	48	1219
	1½	38	100	30.5		
	2	51	75	22.9		
	2⅛	54	75	22.9		
	3	76	50	15.2		
100	1	25	100	30.5		
	1½	38	100	30.5		
	2	51	75	22.9		
150	1	25	100	30.5		
	1½	38	75	22.9		
	2	51	50	15.2		

Cert. #000213

CertainTeed SAINT-GOBAIN

CertainTeed Corporation

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM

20 Moores Road Malvern, Pa 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com

© 09/18 CertainTeed Corporation, Printed in the USA, Code No. 30-35-016