



Marine Thermal Blanket insulation can be used for general marine thermal and acoustic applications, including heating, ventilating and air conditioning ductwork.

### FEATURES & BENEFITS

Marine Thermal Blanket insulation has excellent sound absorption characteristics to help reduce unwanted noise. When properly installed in correct thickness, it virtually eliminates condensation problems on cold duct surfaces. Marine Thermal Blanket provides thermal efficiency that reduces unwanted heat loss or gain from equipment and ductwork. The product cuts easily and installs with minimal effort.

### COMPOSITION & MATERIALS

Marine Thermal Blanket 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 vapor retarder facing. On faced products, a stapling/taping tab is provided on one edge.

### APPLICATION

The product should be kept clean and dry from the time of manufacture through job site installation and system operation. Marine Thermal Blanket is 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 Marine Thermal Blanket, and from 35°F to 450°F (1.7°C to 232°C) for unfaced Marine Thermal Blanket.

### INSTALLATION

Marine Thermal Blanket Insulation installs using normal installation practices for general marine thermal, acoustic and HVAC applications.

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

### QUALITY ASSURANCE

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001 and ISO 14001 standards.



### TECHNICAL DATA

#### APPLICABLE STANDARDS, CODE COMPLIANCE

Model Building Codes:

- ICC
- Material Standards:
  - ASTM C1290
  - 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
    - Type II, FSK

Certifications:

- Non-Combustible Material (IMO)
  - IMO FTP, Part 1, Annex 1
  - USGC Certificate #164.109/58/0
- Interior Finish (IMO)
  - IMO FTP, Parts 2 & 5, Annex 1
  - USGC Certificate #164.112/112/0
- GREENGUARD® GOLD

#### FIRE RESISTANCE

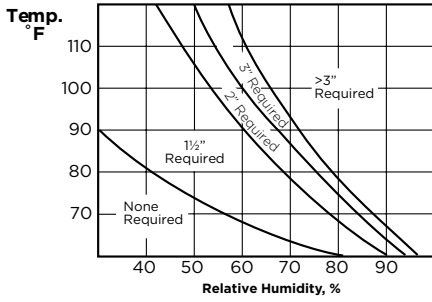
Surface Burning Characteristics:

- ASTM E84, UL 723
- CAN/ULC-S102
- Max. Flame Spread Index: 25
- Max. Smoke Developed Index: 50

#### PHYSICAL / CHEMICAL PROPERTIES

PROPERTY (UNIT)	TEST	VALUE
Thermal Performance:	N/A	See table on back page
Operating Limits: Faced Unfaced	ASTM C411	250°F / 121°C 450°F / 232°C
Water Vapor Sorption:	ASTM C1104	≤ 5%
Water Vapor Transmission (Facing):	ASTM E96, Desiccant Method	FSK: 0.02 perms (1.15 x 10 <sup>-9</sup> g/Pa·s·m <sup>2</sup> )
Noncombustibility:	ASTM E136	Pass
Odor Emission:	ASTM C1304	Pass
Corrosion Resistance:	ASTM C665	Pass
Fungi Resistance:	ASTM C1338	Pass

## 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.

## AVAILABLE SIZES

Available standard sizes are listed in the table. Contact CertainTeed for non-standard sizes.

TYPE	FACING	THICKNESS		LENGTH		WIDTH	
		IN	MM	FT	M	IN	MM
75	FSK	1 1/2	38	100	30.5	48	1219
		2	51	75	22.9		
		2 1/2	54	75	22.9		
		3	76	50	15.2		
100	FSK	1	25	100	30.5	48	1219
		1 1/2	38	100	30.5		
		2	51	75	22.9		
150	FSK	1	25	100	30.5	48	1219
		1 1/2	38	75	22.9		
		2	51	50	15.2		

## THERMAL PERFORMANCE

TYPE	PRODUCT THICKNESS		UNCOMPRESSED R-VALUE		INSTALLED DUCT R-VALUE		UNCOMPRESSED K-VALUE		INSTALLED DUCT K-VALUE	
	IN	MM	H•FT <sup>2</sup> •°F BTU	M <sup>2</sup> •°C W	H•FT <sup>2</sup> •°F BTU	M <sup>2</sup> •°C W	BTU•IN H•FT <sup>2</sup> •°F	W M•°C	BTU•IN H•FT <sup>2</sup> •°F	W M•°C
	75	1 1/2	38	5.2	0.91	4.2	0.74	0.29	0.042	0.27
2		51	6.9	1.21	5.6	1.00	0.29	0.042	0.27	0.039
2 1/2		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
100	1	25	3.8	0.68	3.0	0.53	0.26	0.038	0.25	0.036
	1 1/2	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
	1 1/2	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		AVERAGE INSTALLED THICKNESS			STRETCH-OUT DIMENSIONS <sup>1</sup>					
IN	MM	IN	MM		ROUND DUCT		SQUARE DUCT		RECTANGULAR DUCT	
					IN	MM	IN	MM	IN	MM
1 1/2	38	1.13	29	P+	9.5	241	8	203	7	178
2	51	1.50	38	P+	12	305	10	254	8	203
2 1/2	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

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

## WARRANTY

Refer to CertainTeed's Limited One-Year Warranty for Fiberglass Duct Wraps (30-29-047).

## MAINTENANCE

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

## AVAILABILITY AND COST

For availability and cost, contact your local contractor or distributor, or call Customer Experience team at 800-233-8990.

## TECHNICAL SERVICES

Technical assistance can be obtained from your local CertainTeed sales representative and our Customer Experience team, 800-233-8990, or GetHelp@saint-gobain.com.

USGBC® and the related logo are trademarks owned by the U.S. Green Building Council and are used with permission.



## CertainTeed

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM  
20 Moores Road, Malvern, PA 19355 800-233-8990 certainteed.com