

Marine Duct Wrap Insulation

PRODUCT DESCRIPTION

Basic Use: Marine Duct Wrap Insulation is used to insulate rectangular and round heating, ventilating and air conditioning ductwork for marine and general insulation applications.

Benefits: Marine Duct Wrap Insulation provides 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.

Composition and Materials: Marine Duct Wrap is a blanket-type insulation composed of glass fibers bonded together with a thermosetting resin. It is available unfaced or with FSK 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. Marine Duct Wrap 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 Duct Wrap, and from 35°F to 450°F (1.7°C to 232°C) for unfaced Marine Duct Wrap.

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

INSTALLATION

Sheet metal ducts should be clean, dry and sealed tightly prior to insulating with CertainTeed Marine Duct Wrap.

To ensure installed thermal performance, CertainTeed Marine Duct Wrap should 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 back. 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.

CertainTeed Marine Duct Wrap is 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 should be stapled with outward-clinching staples on approximately 6" centers. Where a vapor retarder is required, all seams, joints, tears, punctures and/or other penetrations of the duct wrap should 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, CertainTeed Marine Duct Wrap should 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

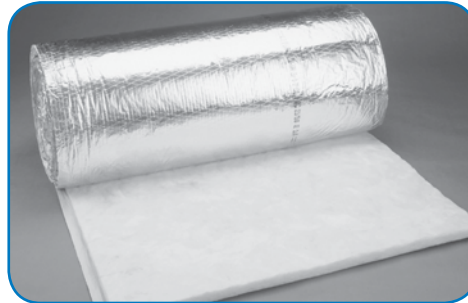
Manufactured and sold throughout the United States. For availability and cost contact your local distributor, or call CertainTeed Sales Support Group in Valley Forge, PA at 800-233-8990.

WARRANTY

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

MAINTENANCE

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



Product Name	CertainTeed Marine Duct Wrap Insulation
Manufacturer	CertainTeed Corporation
Address	P.O. Box 860 Valley Forge, PA 19482-0105
Phone	610-341-7000 • 800-233-8990
Fax	610-341-7571
Website	www.certainteed.com/insulation

TECHNICAL DATA

Applicable Standards

- 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
- Fire Safety Standards:
 - NFPA 90A, NFPA 90B
- 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
 - > USCG Certificate #164.112/112/0

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 tests requirements

Physical/Chemical Properties

- Thermal Performance:
 - See table on back page
- 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: Max. 0.02 perms
(1.15 x 10⁻⁹g/Pa•s•m²)
- Corrosiveness: ASTM C665
 - Pass test requirements
- Fungi Resistance: ASTM C1338
 - Pass test requirements
- Odor Emission: ASTM C1304
 - Pass test requirements

Quality Assurance

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001:2000 and ISO 14001:2004 standards. The GREENGUARD Environmental Institute has certified Marine Duct Wrap for low emissions of total particle, formaldehyde and other Volatile Organic Compounds (VOCs).