



DUCT WRAP™ RF-3000

Exterior Insulation of the HVAC Ducts



INNOVACIONES PARA VIVIR®

Description

Owens Corning faced or unfaced Duct wrap is an excellent thermal insulation blanket of glass fibers bonded with a thermoset resin; it can endure temperatures up to 250°F (121°C).

Uses and applications

Owens Corning Duct Wrap Insulation has several applications in commercial and residential heating, air-conditioning, and dual temperature ducts operating at temperatures from 40°F (4°C) to 250°F (121°C)

This product, when installed in accordance with instructions, assures specified in-place thermal performance and condensation control.

Features / Benefits

Assured thermal performance

When installed in accordance with instructions, the compression is controlled, and the Duct Wrap Insulation provides the specified thermal performance (See R-Value table). Operating costs are controlled due to reduction of heat loss or heat gain through the sheet metal duct walls.

Enhanced comfort control

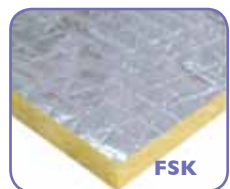
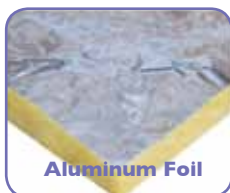
Duct wrap helps heating and cooling systems to deliver conditioned air to occupied spaces close to design temperatures. By conserving heating and cooling energy, HVAC systems operate more efficiently with reduced loads. retire, asegurando su valor R (Resistencia Térmica).

Presentation

Flexible rolls, in three different types:

Without vapor barrier

With vapor barrier: Aluminum foil or Foil/Scrim/Kraft (FSK)



Specification Compliance

Properties	Test Method	Value
Hot Surface Performance	ASTM C 411	250°F (121°C)
Vapor Barrier Temperature Limit	ASTM C 1136	150°F (66°C)
Water vapor permeance ¹	ASTM E 96	0.02 perm
Water vapor sorption	ASTM C 1104	< 3% at 120°F (49°C) 90% RH
Fungi Resistance	ASTM C 1338	Will not support or promote mold growth
Surface burning characteristics ²	ASTM E 84	Flame spread: 25% Smoke developed 50%

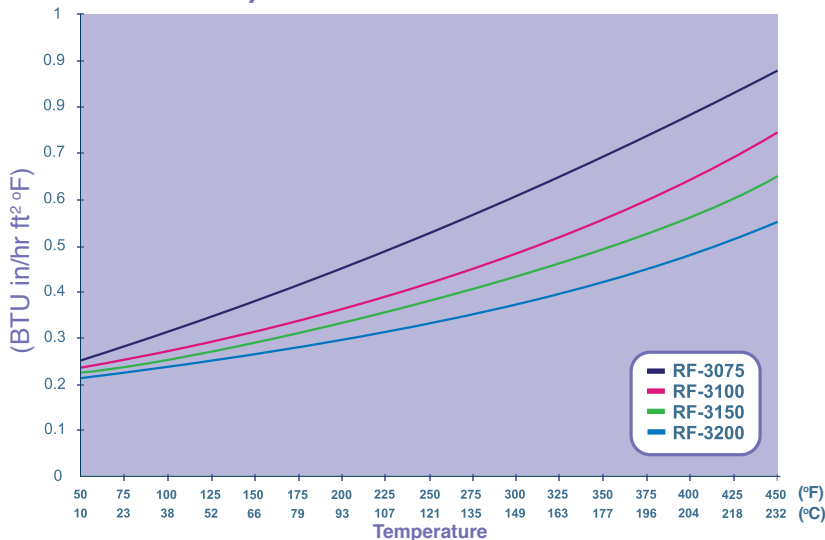
¹The water vapor permeance is supported by a quality certificate of the supplier of facing (only FSK-Foil-Scrim-Kraft facing).

²The surface burning characteristics of these products had been determined in accordance with the ASTM E 84. This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular use. Values are reported to the nearest 5 rating.

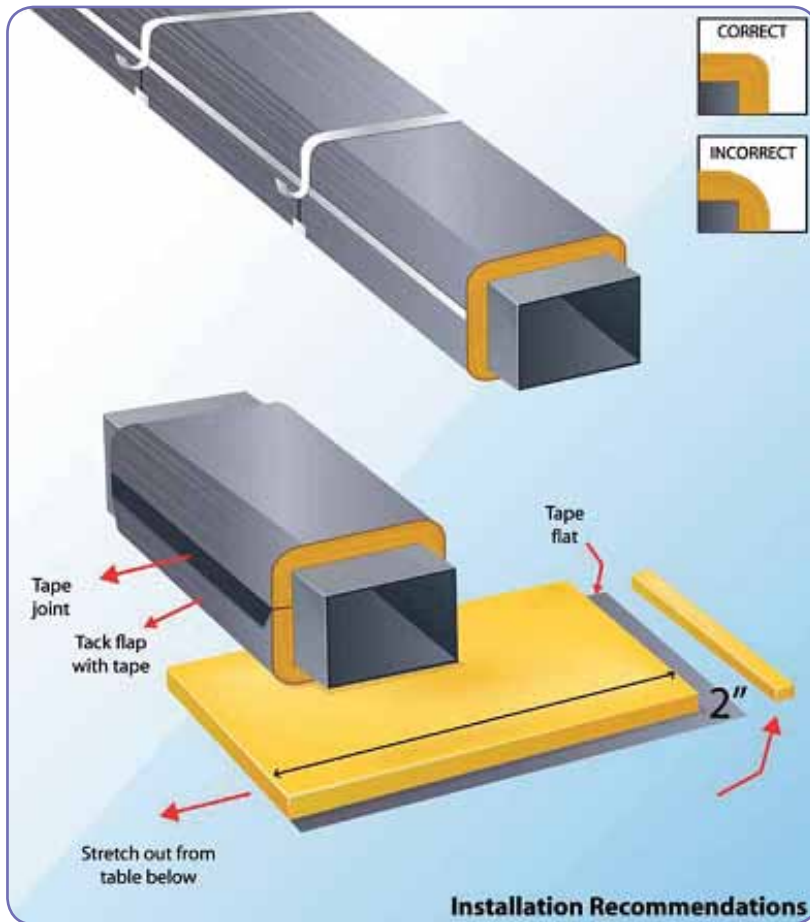
Product	R Value	Density		Conductivity		Thickness	
	[ft ² hr °F/BTU]	[lb/ft ³]	[kg/m ³]	[BTU in/ft ² hr °F]	[W /°C m]	[in]	[cm]
RF-3075	R-5.3	0.78	12.5	0.283	0.041	1.5	3.8
	R-7	0.75	12.02	0.287	0.041	2	5.1
	R-8	0.75	12.02	0.287	0.041	2.5	6.4
	R-10.5	0.75	12.02	0.287	0.041	3	7.6
RF-3100	R-3.8	1.00	16.03	0.264	0.038	1	2.5
	R-5.7	1.00	16.03	0.264	0.038	1.5	3.8
	R-7.5	1.00	16.03	0.264	0.038	2	5.1
	R-15	1.00	16.03	0.264	0.038	4	10.2
	R-22.7	1.00	16.03	0.264	0.038	6	15.2
RF-3150	R-4.1	1.50	24.02	0.242	0.035	1	2.5
	R-6	1.50	24.02	0.242	0.035	1.5	3.8
	R-8	1.50	24.02	0.242	0.035	2	5.1
RF-3200	R-2	2.20	35.24	0.231	0.033	0.5	1.3
	R-4.3	2.20	35.24	0.231	0.033	1	2.5
	R-6.5	2.20	35.24	0.231	0.033	1.5	3.8
	R-8.7	2.20	35.24	0.231	0.033	2	5.1

Product	Thickness		Width by vapor barrier			
	[cm]	[in]	Aluminum Foil		FSK	
			[cm]	[in]	[cm]	[in]
RF-3075	2.5	1	61	24	122	48
	3.8	1.5				
	5.1	2				
	6.5	2.5				
RF-3100	2.5	1	61	24	122	48
	3.8	1.5				
	5.1	2				
RF-3150	2.5	1	61	24	122	48
	3.8	1.5				
	5.1	2				
RF-3200	2.5	1	61	24	122	48
	3.8	1.5				
	5.1	2				

Thermal Conductivity



Thermal conductivity of 75°F (24°C) mid temperature.



Application Advices

Before applying Duct Wrap, ducts shall be clean, dry and tightly sealed at all joints and seams. Duct Wrap with FSK shall be cut to "stretch-out" dimensions and a 2" (50mm) (approx.) piece of duct wrap removed from the facing at the end of the piece of duct wrap to form an overlapping staple and tape flap, as shown below.

Duct Wrap is installed over sheet metal ducts with duct wrap tightly butted with facing outside. Overlap 2" (50mm) formed tape flap and facing at other end of piece of duct wrap. If ducts are rectangular or square, install so insulation is not excessively compressed at duct corners.

Seams shall be stapled 6" (150mm) (approx.) on center with outward clinching staples. Adjacent sections of duct wrap shall be tightly butted with the 2" (50mm) tape flap overlapping.

Where a vapor retarder is required, seal all seams joints, tears, punctures and other penetrations with pressure-sensitive tape matching the facing (either plain foil or FSK backing stock) or with glass fabric and mastic to provide a vapor-tight system.

Cloth duct tape of any color and finish using reclaimed rubber adhesives is not recommended for use on Duct Wrap FSK.

Where rectangular ducts are 24" (600mm) in width or greater, duct wrap shall be additionally secured to the bottom of the duct with mechanical fasteners such as pins and speed clip washers, spaced on 18" (425mm) centers (maximum) to prevent sagging of insulation. It is neither necessary

Handling and Storage Advice

- Avoid mechanical abuse while storing and transporting product.
- Do not expose the product outdoors.
- Keep the product packed until it is used.
- Stack three packages maximum.
- Leave the identification tag noticeable to be seen.
- Keep the first bed of product over a pallet.

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. Nothing contained in this bulletin shall be considered a recommendation.

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