

FI-FOIL® Reflective HVAC Duct Insulation is an ideal alternative to fiberglass providing both a path to improve overall system performance and an easier, itch-free installation. FI-FOIL® RBI Shield™ HVAC is a low-e double bubble insulation that cuts and fits easily around interior rectangular or round ductwork. The product provides three (3) R-value options that vary with the amount of enclosed air space.

FI-FOIL® HVAC Duct Insulation consists of two (2) low-e layers of reflective film bonded to two (2) premium inner layers of polyethylene to form a strong and durable double bubble insulation. The Low-e surfaces of FI-FOIL® reflect heat rather than absorb it providing a superior solution to reduce the load on HVAC systems and the environment while lowering monthly utility costs.

The following product performance and flammability compliance is printed on each roll: FI-FOIL CO. R-4.2 WITH 3/4" AIR SPACE; R-6 WITH 7/8" AIR SPACE; R-8 WITH DBL AIR SPACE/ FLAME SPREAD <25; SMOKE DENSITY <50.

TECHNICAL DATA

FLAMMABILITY	
ASTM E84 In accordance with E2599	CLASS A
ASTM E84 Flame Spread	0
ASTM E84 Smoke Developed	<50
STRENGTH & PERFORMANCE	
ASTM C1371 Thermal Emittance	0.06
ASTM E96 Water Vapor Permeance	0.01 PERMS
ASTM C1258 Aging Resistance - Corrosion	No Corrosion
ASTM C1258 Aging Resistance - Delamination	No Delamination
ASTM C1668 Bleeding & Delamination	No Bleeding or Delamination
ASTM C1668 Pliability	No Cracking or Delamination
ASTM C1338 Fungi Resistance	No Fungi Growth
ASTM C411 Hot Surface Performance	<250°F ¹
Nominal Thickness	5/16"
Weight	0.77 oz. per sqft.

1 Not for use in direct contact on surfaces that exceed 180°F.

Testing to ASTM E84-23a verified by [Capital Testing and Certification Services](#) Reports: T-17324-R1 Appendix A2, T-17323-R1 Appendix A1, Feb 7, 2024

Testing to ASTM standards under C335 verified by [R&D Services, Inc.](#) Reports: RD24263-R1, RD24310-R1, RD24427-R1, Apr 15, 2024

Testing to ASTM standards under C1668 verified by [R&D Services, Inc.](#) Report RD231336-R3, Apr 15, 2024

COMPLIANCE

Compliance with the following codes:

- 2024, 2021 International Building Code (IBC)
- 2024, 2021 International Residential Code (IRC)
- 2024, 2021 International Mechanical Code (IMC)
- 2024, 2021 International Energy Conservation Code (IECC)



FI-FOIL® HVAC COMMON PRODUCTS

Item Number	Description	Width	Length	Coverage	Diameter	Weight
F-HVAC24200-RBI	HVAC Duct Insulation - Reflective Bubble Roll	24"	100'	200 SF	21 in	13 lb
F-HVAC24250-RBI	HVAC Duct Insulation - Reflective Bubble Roll	24"	125'	250 SF	24 in	15 lb
F-HVAC48400-RBI	HVAC Duct Insulation - Reflective Bubble Roll	48"	100'	400 SF	21 in	24 lb
F-HVAC48500-RBI	HVAC Duct Insulation - Reflective Bubble Roll	48"	125'	500 SF	24 in	28 lb
F-HVACSPACER-RBI	HVAC Duct Insulation Spacers - Reflective Bubble Roll	2"	100'	24 ROLLS	22 in	28 lb

Additional sizes are available, see our HVAC Line Card.



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