



Technical Data

FI-FOIL® RBI SHIELD™ MAX

FI-FOIL® RBI Shield™ MAX is a premium **Woven Reinforced Reflective Bubble Insulation** with a **Limited Lifetime Warranty**. R&D developed, tested, and manufactured in the U.S.A. to the highest quality standards. Our toughest bubble insulation is an ideal alternative to vinyl-faced fiberglass or traditional reflective bubble, providing an easier installation and greater strength during the installation, along with exceptional durability over the life of the product.

FI-FOIL® RBI MAX consists of one (1) premium layer of woven reinforced white polymer and (1) layer of low-e reflective film bonded to one (1) inner layer of premium polyethylene to form a strong and durable insulation. FI-FOIL® RBI consists of several unique compounds to ensure the surface won't delaminate, crack, pit, chalk, peel, or discolor. The premium core is formulated for greater strength and elasticity including an added blend of antioxidants, sunscreen, and color stabilizing compounds to provide a premium white polymer surface that won't fade over time.

FI-FOIL® RBI MAX serves as a vapor retarder. A unique manufacturing process that bonds the polymer and reflective film together in one-step allows trapping and maintaining more air in each bubble for a higher quality insulation and improved energy efficiency year-round.

COMPLIANCE

Compliance with the following codes:

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



FI-FOIL® RBI MAX PRODUCTS

Item Number	Description	Width	Length	Coverage	Diameter	Weight
F-MAX48500SESB-RBI	RBI Woven Reinforced - Reflective Bubble Roll Square Edge	48"	125'	500 SF	18 in	25 lb
F-MAX48500STSB-RBI	RBI Woven Reinforced - Reflective Bubble Roll Staple Tab	48"	125'	500 SF	18 in	27 lb
F-MAX72750STSB-RBI	RBI Woven Reinforced - Reflective Bubble Roll Staple Tab	72"	125'	750 SF	18 in	39 lb

TECHNICAL DATA

FLAMMABILITY

ASTM E84 In accordance with E2599
 ASTM E84 Flame Spread
 ASTM E84 Smoke Developed

CLASS A
 <25
 <50

STRENGTH & PERFORMANCE

ASTM D2261 Tear Resistance (MD) 32.00 lb_f
 ASTM D2261 Tear Resistance (CMD) 39.52 lb_f
 ASTM F1306 Slow Rate Penetration 1.52 lb_f/in
 ASTM G154 UV Exposure 67% Retention after 2k hrs
 ASTM D882 Tensile Strength PASS
 ASTM C1371 Thermal Emittance ≤0.1
 ASTM 518 Thermal Resistance (R-value) 0.55 ft²·h·°F/Btu
 ASTM E96 Water Vapor Permeance 0.0 PERMS
 ASTM C1258 Aging Resistance - Corrosion No Corrosion
 ASTM C1258 Aging Resistance - Delamination No Delamination
 ASTM C1224 Bleeding & Delamination No Bleeding or Delamination
 ASTM C1224 Pliability No Cracking or Delamination
 ASTM C1338 Fungi Resistance No Fungi Growth

Nominal Thickness 5/32"
 Weight 25.0 lb/500 ft²

Testing to ASTM E84-23a verified by [Capital Testing and Certification Services](#)
 Reports: T-17629, T-17627, T-17628 Oct 9, 2024

Testing to ASTM standards under D2261 and F1306 verified by [R&D Services, Inc.](#)
 Report: RD241144, Oct 23, 2024

Testing to ASTM standards under C1224 verified by [R&D Services, Inc.](#)
 Report RD241143, Jan 7, 2025



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