

ed on HVAC Industry and Manufacturer's Independent Study on a Combined ROI & Su gy Savings Calculation. A contributing product to the U.S. Energy Department's 30% Er nergy Savings Solution Initiative





72170 Dunham Way, Suite D | Thousand Palms, CA 92276 | (760) 343-2277 | FAX (760) 343-5599

• IRC - 2018 Refrigerant Line Insulation Protection - M1411.6.1 - Section N1103.4.1

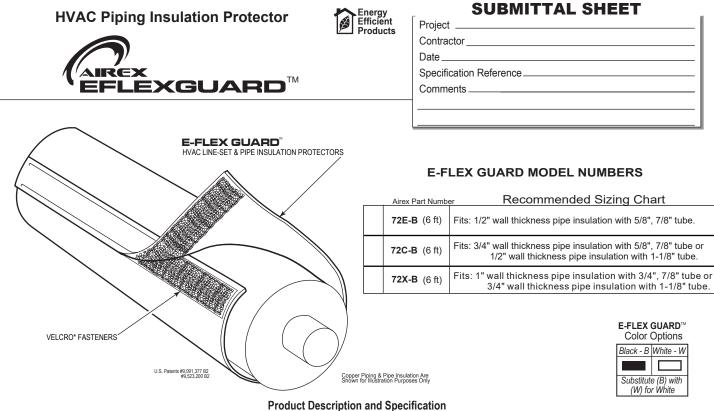
California Building Energy Efficiency Standards (Title 24 Energy Code) 2013 -Residential & Commercial Requirement for Pipe Insulation120.3 -

Section: 150.0(j) 3a & b • California Building Energy Efficiency Standards (Title 24 Energy Code) 2016-Residential & Commercial Requirement for Pipe Insulation120.3 -

Section: 150.0(j) 2 & 3 - Section 150.0(m) 9

• ANSI/ASHRAE/IESNA Standard 90.1 - 2004, 2007, 2010

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AIREX E-FLEX GUARD<sup>™</sup> - An insulation protective cover by Airex Manufacturing Inc., shall be provided and installed to be flexible, U/V and weather resistant. The PVC plastic pipe insulation cover shall feature an integrated, outdoor-rated durability, industrial-grade, full-enclosure fastening system that is double secured by molecular bonding, allowing custom, cut-to-length installations. The cut-to-length installations shall comprise of a non-unraveling PVC cover material that does not compromise long-term-effectiveness or require specialized tools and cutting equipment. The engineered fastening system is to allow the cover to be removable and reusable for maintenance without the use of adhesives as an attachment in any way shape or form, including either in the protector's construction, installation, or attachment to pipe insulation, as this will negatively affect insulation permeance performance and promote insulation material degradation which causes added energy usage by equipment. WRAPPING TAPE OR ADHESIVE TAPE SHALL NOT BE PERMITTED AS PER ENERGY CODES. Insulation Protector shall be tested and meet the following testing: ASTM E 96 (Vapor Transmission of Materials), ASTM G 153 (Carbon Arc Light Exposure – Accelerated Weathering), ASTM D 412 (Tensile Strength after UV Exposure and Water Immersion) ASTM 570 (Water Absorption of Plastics), ASTM E 84/UL 723 (Surface Burning Characteristics of Building Materials), ASTM G 21 (Fungal Growth). UV/Protector Pipe Insulation Material shall Meet Class II vapor retarder per ASTM E 96 (vapor/moisture permeability test) "1 perm or less". THE USE OF U/V PAINT OR NON-PERMEABLE MATERIALS OR ADHESIVES ARE NOT PERMITTED FOR THIS APPLICATION. AIREX E-FLEX GUARD<sup>™</sup> combines U/V weather and physical protection with a Class II rated vapor retarder permeability performance material, as required per energy codes.

	Approved PVC Material Performance Testing	
	ASTM E96 – Water ASTM G21 – Anti-F ASTM D412 - Tens ASTM D570 – Wat	atherization and UV Exposure r/Vapor Permeability Fungal/Anti-Microbial ion Deformation Test (UV Exposure & Water Immersion)
750 Series 75 Foot Rolls	Airex Part Number	Recommended Sizing Chart
	750E-B (75 ft) Fit	ts: 1/2" wall thickness pipe insulation with 5/8", 7/8" tube.
	750C-B (75 ft)	ts: 3/4" wall thickness pipe insulation with 5/8", 7/8" tube or 1/2" wall thickness pipe insulation with 1-1/8" tube.
	750X-B (75 ft) Fit	ts: 1" wall thickness pipe insulation with 3/4", 7/8" tube or 3/4" wall thickness pipe insulation with 1-1/8" tube.

## 90° PVC Insulation Protectors

 Airex Part Number
 Recommended Sizing Chart

 90E-B
 90° Angle fits E Series

 90C-B
 90° Angle fits C Series

 90X-B
 90° Angle fits X Series



U.S. Patents #9,091,377 B2, #9,523,200 B2



www.airexmfg.com 72170 Dunham Way, Suite D, Thousand Palms, CA 92276 Phone: (760) 343-2277 Fax: (760) 343-5599

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