

Certificate of Compliance

Aerocel[®] EPDM Closed Cell Elastomeric Foam Insulation

MANUFACTURING SPECIFICATIONS

- **ASTM C534 Grade 1, Type I (tubular) and Type II (sheet)** - Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form - Result: meets requirements
- **ASTM D1056, 2C1** - Standard Specification for Flexible Cellular Materials - Sponge or Expanded Rubber - Result: meets requirements
- **ASTM D1171** - Standard Test Method for Rubber Deterioration - Surface Ozone Cracking Outdoors - Result: no cracking
- **ASTM G7** - Standard Practice for Atmospheric Environmental Exposure Testing of Nonmetallic Materials - Result: minimal cracking or color change

FIRE BEHAVIOR

- **ASTM E84 (25/50 Flame Spread/Smoke Developed Index)** - Standard Test Method for Surface Burning Characteristics of Building Materials - Result: pass (up to 2" or 50 mm thick)
- **ASTM D635** - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position - Result: self-extinguishing
- **NFPA 90A** - Standard for the Installation of Air-Conditioning and Ventilating Systems - Result: meets requirements (up to 2" or 50 mm thick)
- **NFPA 90B** - Standard for the Installation of Warm Air Heating and Air-Conditioning Systems - Result: meets requirements (up to 2" or 50 mm thick)
- **UL94** - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances - Result: flame classification V-0

CHEMICALS / VOC'S / HUMAN HEALTH

- **Health Product Declarations (HPD's)** - verified per HPDC Open Standard v2.2 - Result: Verified
- **SCS Indoor Advantage[™] Gold Certified** for low chemical emissions - Result: Certified
- **California Department of Public Health CDPH Specification 01350** - Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers - Result: meets requirement
- **ASTM C1338** - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings - Result: no growth (no biocides added)
- **ASTM G21** - Standard Practice for Determining Resistance of Polymeric Materials to Fungi - Result: no growth (no biocides added)
- **UL181** - Standard for Factory-Made Air Ducts and Air Connectors, Section 13 Mold Growth - Result: no growth (no biocides added)

- EPA TSCA compliant
- RoHS 3 compliant
- REACH compliant
- DBDPE-free (decabromodiphenyl ethane)
- PBDE-free (Polybrominated diphenyl ether)
- Nitrosamine-free
- Asbestos-free
- Fiber-free

ENVIRONMENT

- **Environmental Product Declarations (EPD's):** Product-specific Type III
- No CFC's, HFC's or HCFC's utilized during manufacturing
- Ultra-low PVC content (< 1%)

U.S. GREEN BUILDING COUNCIL (USGBC) LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

- Energy & Atmosphere (EA) - Result: can contribute
- Materials & Resources (MR)
 - Product Disclosure & Optimization: Environmental Product Declarations - Result: can contribute
 - Product Disclosure & Optimization: Material Ingredients - Result: can contribute
- Indoor Environmental Quality (EQ)
 - Prerequisite: Minimum Energy Performance - Result: can contribute
 - Credit: Optimize Energy Performance - Result: can contribute
 - Credit: Low-Emitting Materials - Result: can contribute
 - Credit: Indoor Air Quality Assessment - Result: can contribute
 - Credit: Thermal Comfort - Result: can contribute
 - Credit: Acoustic Performance - Result: can contribute
- Innovation (IN)
 - Credit: Occupant Comfort Survey - Result: can contribute

ENERGY CODES

- **ANSI/ASHRAE/IES Standard 90.1** - Energy Standard for Buildings Except Low-Rise Residential Buildings - Result: meets requirements International Green Construction Code® (IgCC®) - Result: meets requirements
- **International Energy Conservation Code® (IECC®)** - Result: meets requirements
- **California Building Energy Efficiency Standards (Title 24)** - Result: meets requirements

BUILDING CODES

- **International Mechanical Code® (IMC®)** - Result: meets requirements
- **International Residential Code® (IRC®)** - Result: meets requirements

MILITARY

- Qualified Products List of Products Qualified under **Military Specification MIL-P-15280** Plastic Material, Unicellular (Sheets and Tubes) - Result: listed