



CSI: DIVISION: 23 00 00 — HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
Section: 23 33 00 — Air Duct Accessories

Product: DucTite® R-6 and DucTite® R-8 Fitting Insulators

Listee: M&M Manufacturing, Inc.
4001 Mark IV Parkway
Fort Worth, Texas 76106
www.mmmfg.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*

**Uniform Mechanical Code*® is a registered trademark of the International Association of Plumbing and Mechanical Officials

Compliance with the following standards:

ASTM E84-2023 Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM C411-2019 Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation
ICC-ES LC1017-2008 Prefabricated Duct Fitting Insulation Manufactured from Molded, Expanded Polystyrene Foam Plastic

Identification:

Each DucTite® R-6 and DucTite® R-8 air duct fitting insulator must be labeled with the name of the company noted at the beginning of this listing (M&M Manufacturing, Inc.), part description, weight, *R*-value, mass per area limitation [13 pounds for each 1000 square feet (5.9 kg per 92.9 m²)], date and shift code, and the ICC-ES PMG listing mark, or the number of the bead supplier's evaluation report (ESR-1634).

Installation:

DucTite® R-6 and DucTite® R-8 air duct fitting insulators provide unprotected insulation on the exterior of aboveground metal air duct fittings such as, but not limited to, outlet register boxes, register boots, wyes, tees, elbows, stack boots and reducers.

DucTite® insulators must be installed in accordance with the applicable code and the manufacturer's published installation instructions. Where installation is in accordance with this listing, neither a thermal nor an ignition barrier is required to separate the insulators from the building's interior.

The metal HVAC duct fitting is placed on a firm surface with the collar pointed upward. The DucTite® insulator, if in the form of a one-piece insulator, is slipped over the fitting with the collar extending through the hole. In the instance where the DucTite® insulator is in the form of two halves, a right and a left half are placed around the fitting and joined together with internal plastic fasteners. When properly seated, approximately 2 inches (50.8 mm) of the duct fitting will extend beyond the DucTite® insulator.

Models:

DucTite® R-6 and DucTite® R-8 insulators are formed from molded expanded polystyrene foam (EPS) insulation. They are designed to be either factory- or field-applied to provide insulation for metallic air duct fittings of various types.

The EPS foam plastic used in the manufacture of the DucTite® R-6 and DucTite® R-8 insulators has a flame-spread index of 25 or less and a smoke-developed index of 200 or less when tested in accordance with ASTM E 84 at the thickness and density used. The material does not flame, glow, smolder or smoke when tested in accordance with ASTM C 411 at temperatures that do not fall below 250°F (121°C).

The DucTite® R-6 insulators have a nominally 1.5-inch-thick (38.1 mm) wall and a nominal density of 1.5 lbs/ft³ (24 kg/m³), yielding an *R*-value of 6 (hr ft² °F)/Btu (1.06 °k m²/W).

The DucTite® R-8 insulators have a nominally 2-inch-thick (50.8 mm) wall and a nominal density of 1.5 lbs/ft³ (24 kg/m³), yielding an *R*-value of 8 (hr ft² °F)/Btu (1.41 °k m²/W).

The DucTite® R-6 and the DucTite® R-8 insulators are molded using Grade 54 modified EPS beads as recognized in ICC-ES evaluation report ESR-1634.

Conditions of Listing:

1. The products must be limited to use in buildings of IBC Type V construction, and all construction types permitted under the IRC.
2. The amount of these products installed must be limited to an aggregate total of 13 pounds (5.9 kg) of products for each 1000 square feet (92.9 m²) of floor area.
3. The DucTite® R-6 and the DucTite® R-8 insulators are limited to use on metallic fittings and must not be used on straight lengths of HVAC ducts.
4. The products are under a quality control program with inspections by ICC-ES.