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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

### SECTION 15084 (23 07 22)

#### HVAC INSULATION JACKETS

Specifier Notes: This section covers Ideal Tape Co., Inc. “IdealSeal™ 777” HVAC insulation jackets to cover and protect thermal insulation of interior and exterior HVAC ducts, piping, and equipment. Consult Ideal Tape Co., Inc. for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

Specifier Notes: Edit the following paragraph as required.

- A. Insulation jackets for [interior and] exterior HVAC ducts, piping, and equipment.

## 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 15080 (23 07 00) – Mechanical Insulation (HVAC Insulation).

## 1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM C 1263 – Standard Test Method for Thermal Integrity of Flexible Water Vapor Retarders.
- B. ASTM C 1338 – Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings.
- C. ASTM D 624 – Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- D. ASTM D 882 – Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- E. ASTM D 1204 – Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature.
- F. ASTM D 3330/D 3330M – Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape.
- G. ASTM E 96/E 96M – Standard Test Methods for Water Vapor Transmission of Materials.
- H. UL 723 – Standard for Test for Surface Burning Characteristics of Building Materials.

## 1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including physical properties.

Specifier Notes: Delete samples if not required.

- C. Samples: Submit manufacturer's sample of insulation jackets, minimum 8 inches by 10 inches.
- D. Manufacturer's Certification: Submit manufacturer's certification that insulation jackets comply with specified requirements and are suitable for intended application.
- E. Warranty: Submit manufacturer's standard warranty.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer’s instructions.
- C. Handling: Protect materials during handling and application to prevent damage.

**1.6 WARRANTY**

- A. Warranty Period: 10 years.

**PART 2 PRODUCTS**

**2.1 MANUFACTURER**

- A. Ideal Tape Co., Inc., 1400 Middlesex Street, Lowell, Massachusetts 01851. Toll Free (800) 229-9148. Fax (800) 897-8273. Website www.idealtape.com. E-mail info@idealtape.com.

**2.2 HVAC INSULATION JACKETS**

- A. HVAC Insulation Jackets: “IdealSeal 777”.

Specifier Notes: Edit the first sentence as required.

- 1. Cover and protect thermal insulation of [interior and] exterior HVAC ducts, piping, and equipment.
- 2. Multi-layer aluminum-foil laminate.
- 3. Non-permeable vapor barrier.
- 4. Antimicrobial Treatment: Inhibits mold growth.
- 5. Adhesive: “Cold Seal” acrylic adhesive.

Specifier Notes: Specify finish.

- 6. Finish: [Smooth natural] [Embossed].

B. Physical Properties:

- 1. Thickness:
  - a. Total: 8 mils.
  - b. Substrate: 6 mils.
- 2. Release Liner: 70 pounds per ream.
- 3. Adhesion to Steel, ASTM D 3330: 60 ounces per inch.
- 4. Tensile Strength, ASTM D 882: 4,400 psi.
- 5. Toughness, ASTM D 882: 230 pounds per inch.
- 6. Elongation at Break, ASTM D 882: 270 percent.
- 7. Tear Strength, ASTM D 624: 9 pounds.
- 8. Water Vapor Transmission, ASTM E 96, Procedure A: Less than 0.005 US Perms.
- 9. Dimensional Stability, ASTM D 1204, 150 Degrees F, 24 Hours: Less than 0.1 percent dimensional change.

10. Thermal Integrity, ASTM C 1263:
  - a. High Temperature, 150 Degrees F: No cracking, no delamination.
  - b. Low Temperature, Minus 20 Degrees F: No cracking, no delamination.
11. Mold Resistance, ASTM C 1338: No mold growth.
12. Fire Rating, UL 723: Class A rating.

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine surfaces to receive insulation jackets.
- B. Notify Architect of conditions that would adversely affect application or subsequent use.
- C. Do not begin application until unacceptable conditions are corrected.

#### **3.2 SURFACE PREPARATION**

- A. Prepare surfaces to receive insulation jackets in accordance with manufacturer's instructions.
- B. Ensure surfaces are clean and dry.

#### **3.3 APPLICATION**

- A. Apply insulation jackets in accordance with manufacturer's instructions.

Specifier Notes: Edit the following paragraph as required.

- B. Apply insulation jackets to cover and protect thermal insulation [at locations indicated on the Drawings] [at exterior HVAC ducts, piping, and equipment] [at interior and exterior HVAC ducts, piping, and equipment].
- C. Apply insulation jackets to be weathertight.
- D. Lap edges to shed water.
- E. Ensure full contact of adhesive to surfaces.

#### **3.4 PROTECTION**

- A. Protect applied insulation jackets to ensure that, except for normal weathering, jackets will be without damage or deterioration at time of substantial completion.

**END OF SECTION**