

SECTION 10811

UNDERSINK LAVATORY PIPE INSULATION

PART 1 - GENERAL

1.1 SUMMARY

- A. **This Section includes** ADA-compliant, undersink protective lavatory pipe insulation for “accessible” lavatories to prevent burns.
- B. **Related Sections include:**
 - 1. Division 15 Mechanical Sections: Lavatories, piping, and pipe insulation (for applications other than accessible lavatory exposed pipes).

1.2 SUBMITTALS

- A. **Product Data:** Submit manufacturer's product specifications and application recommendations for type of insulation product proposed.

1.3 QUALITY ASSURANCE

- A. **Fire Performance Characteristics:** Provide insulation materials, which are self-extinguishing within 5 seconds with average 10 mm. extent of burning per the ASTM D 635 test method.
- B. **Single-Source Responsibility:** Obtain lavatory pipe insulation from a single source to provide products of consistent appearance and physical properties.
- C. **ADA Compliance:** Pipe insulation shall comply with applicable requirements of the American Disabilities Act.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. **Protection:** Protect insulation from physical damage and deterioration. Store inside and in a dry location. Comply with manufacturer's recommendations for handling, storage, and protection during installation.

PART 2 - PRODUCTS

2.1 UNDERSINK LAVATORY PIPE INSULATION

- A. **Manufacturer:** Subject to compliance with requirements, provide “Handi Lay-Guard” insulation products of Truebro, Inc., Ellington, Connecticut; (203) 875-2868, or approved equal.
- B. **Description:** Universal assemblies for installation on standard plumbing piping assemblies, consisting of molded closed cell vinyl with the following characteristics:
 - 1. Nominal Wall Thickness: 3/16 inch.
 - 2. Hardness: 55 to 65 Shore A durometer.
 - 3. Ultra Violet Protection: Integral barrier.

4. Color: Manufacturer's standard paintable white or gray integral color, as selected by the Architect.
 5. Thermal Conductivity: $k = 1.17$.
- C. **Configuration:** Provide manufacturer's standard insulation kit for the following components; coordinate with Division 15 for piping configuration:
1. P-trap assembly, cast brass or tubular, 1-1/4" or 1-1/2" diameter.
 2. 1-1/4-inch or 1-1/2-inch diameter tailpiece.
 3. Hot water angle valve assembly, 3/8-inch or 1/2-inch size.
 4. Cold water angle valve assembly, 3/8-inch or 1/2-inch size.
 5. Offset wheelchair strainer assembly (McGuire).
- D. **Fasteners:** Provide manufacturer-furnished or -recommended fasteners for securing the insulating assemblies in position.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. **Examining:** Examine substrates and conditions for compliance with requirements of the Sections in which substrates and related work are specified and to determine if other conditions affecting performance of insulation are satisfactory. Do not proceed with installation of insulation until piping is complete and tested, pipe escutcheons are secured in position, other finishing work in space is complete and unsatisfactory conditions have been corrected.
- B. **Preparing:** Clean substrates of substances harmful to insulations including removal of projections and foreign materials.

3.2 INSTALLATION

- A. **General:** Comply with insulation manufacturer's instructions applicable to products and application indicated. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with installation of insulation.
- B. **Application:** Extend insulation full thickness as indicated to envelop entire piping assembly to be insulated. Cut and fit as necessary to fully cover as-installed piping. Secure installed insulation as recommended by the insulation manufacturer.

3.3 COMPLETION

- A. **Insulation:** Completed application shall form a continuous insulating barrier without gaps. Each insulating component shall be secured against dislodgement incidental to use of the lavatory by wheelchair occupants or by cleaning personnel.
- B. **Protection:** Protect installed insulation until acceptance from damage. Remove and replace with new material insulation components, which are damaged or defective.

END OF SECTION