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CSI MasterFormat™

**SECTIONS**  
**072100 THERMAL INSULATION**  
**078100 APPLIED FIRE PROOFING**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Precision Fabricated Vessel Head and Tank Insulation Segments for Thermal Insulation and Fire Protection.

Specifier Note: Revise paragraphs below to suit project requirements. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification.

**1.02 REFERENCES**

- A. ASTM International:
1. ASTM C450 - Practice for Prefabrication and Field Fabrication of Thermal Insulation Fitting Cover for NPS Piping, Vessel Lagging, and Dished Head Segments.

**1.03 SUBMITTALS**

- 1.1 Work in this section is subject to drawings, general conditions, schedules, addenda and other contract documents.
- 1.2 Submit manufacturer current product technical literature and installation instructions.
- 1.3 Samples: provide a sample segment for each type of insulation material.
- 1.4 The contractor shall be responsible for the examination and acceptance of insulation segment condition and fit prior to installation.
- 1.5 Head insulation segments shall be installed according to manufacturer's recommendations and instructions.
- 1.6 Substitutions or changes will only be permitted by prior approval by the architect or engineer.

## **PART 2 MATERIALS**

2.1 Thermal insulation and Fire Protection Tank Head Insulation Segments HATS<sup>®</sup> as manufactured by Specialty Products & Insulation 1650 Manheim Pike, Suite 202, Lancaster, PA 17601. Phone (800) 788-7764 or 717 569 3900, Fax 717 519 4046, email: [fabteam@spi-co.com](mailto:fabteam@spi-co.com) [www.spi-co.com](http://www.spi-co.com).

2.2 Basis of Design HATS<sup>®</sup>

2.3 Tank Head Insulation shall be constructed as per manufacturer technical information and installation instructions.

- A. Tank Head Insulation to be supplied by one manufacturer for tank and pressure vessel heads as listed on drawings and schedules.
- B. Tank Head Insulation to be [a single insulation layer] [a multiple layer insulation system].
- C. Tank Head Insulation segments to be marked to identify ring or course and insulation layer.
- D. Tank Head Insulation Jacketing Material to be provided by tank head insulation fabricator.

2.4 Tank Head Insulation for application on vessel head type [2:1 Elliptical] [Hemispherical] [ASME Flanged and Dished] [Conical] [Toriconical] [80-10°]

2.5 Tank Head Insulation to be [Cellular Glass] [Polyisocyanurate] [Extruded Polystyrene] [Calcium Silicate] [Expanded Perlite] [Phenolic Foam] [Mineral Wool].

## **PART 3 EXECUTION**

3.1 Examination

- A. Provide tank head type and size including any nozzle location and size for proper insulation segment size, shape and segment quantity to complete the head insulation.
- B. Tank head specifics to be provided in a timely manner to prevent impact to fabrication / manufacturing schedule.

3.2 Head Insulation Installation

- A. Installation shall be in accordance with manufacturer's installation instructions, diagrams and project insulation specifications.

3.3 Delivery, Storage and Handling

- A. Deliver head insulation materials and components in manufacturer original, unopened, undamaged packaging with identification labels intact.
- B. Store enclosure materials and components in a clean, dry, protected area.
- C. Do not stack skid materials.

**END OF SECTION**