



INDUSTRIAL INSULATION  
**-1200®**  
 PREFORMED AND FIELD FORM PIPE INSULATION

I-SPEC CSI 3 PART SPECIFICATION SECTIONS: 15080, 15084 and 15086

is recommended to use a National Insulation Association (NIA) certified (or other similarly certified) mechanical insulation inspector throughout the project to inspect and verify the materials and total insulation system have been installed correctly in accordance with the Johns Manville guide specifications.

- 6.2 - Insulation shall be installed by skilled and experienced applicators who are regularly engaged in commercial or industrial insulation work.
- 6.3 - Damaged, wet or contaminated insulation shall not be installed.

7. DELIVERY, STORAGE and HANDLING

- 7.1 - Deliver all materials to the job site in factory containers with manufacturer's label showing manufacturer, product name and fire hazard information.
- 7.2 - Protect the insulation from dirt, water, chemical attack and mechanical damage before, during and after installation.

8. PROJECT AND SITE CONDITIONS

- 8.1 - Maintain job site temperature and conditions before, during and after installation as required by the manufacturer of the insulation, cement, adhesives and coatings, etc.
- 8.2 - Installed Insulation that has not been weatherproofed and is not protected by a roof and walls shall be protected from precipitation by weatherproof sheeting. Do not install more insulation material than can be weatherproofed the same day it is installed.

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1. MANUFACTURERS

- 1.1 - Johns Manville
  - 1.1.1 - Mineral wool pipe insulation.
    - 1.1.1.1 - MinWool-1200 Type II- Molded, for use to 1200°F (650°C). Grade B - Requires heat-up schedule.
    - 1.1.1.2 - MinWool-1200 Precision v-groove Preformed Pipe Insulation-Type III- Precision v-groove, for use to 1200°F (650°C). Grade B - Requires heat-up schedule.
    - 1.1.1.3 - MinWool-1200 Precision v-groove Field-Formed Pipe Insulation-Type III- Precision v-groove, for use to 1200°F (650°C). Grade B - requires heat up schedule
    - 1.1.1.4 - Approved alternate.

2. MATERIALS

- 2.1 - MinWool-1200® molded mineral wool pipe insulation and MinWool-1200® v-grooved Preformed and Field-Formed mineral wool pipe insulation.

- 2.1.1 - Complies with ASTM C547 Types I, II, III, IV and Grade A and B.
- 2.1.2 - Furnished in standard lengths of 36" (0.92m) with square cut ends.
- 2.1.3 - Conforms to the dimensional requirements of ASTM C585.
- 2.1.4 - Rated maximum service temperature of up to 1200°F (650°C).
- 2.1.5 - Does not exceed 25 flame spread and 50 smoke developed when tested in accordance with ASTM E84
- 2.1.6 - Certified to meet the requirements of ASTM C795 for use over stainless steel.

3. FIELD APPLIED JACKETS

3.1 - Aluminum Jacketing

- 3.1.1 - Use type T-3003 H-14 sheet with either a smooth or embossed finish and a factory applied protective inner layer.
- 3.1.2 -

Insulation (OD) in	Minimum Jacket Thickness (in)
<=8	0.016
over 8 thru 11	0.020
over 11 thru 24	0.024
over 24 thru 36	0.032
over 36	0.040

3.2 - Stainless Steel Jacketing

- 3.2.1 - Use 0.010" (0.025mm) type 304 sheet with a smooth finish and with or without a factory applied protective inner layer.

3.3 - Zeston UV Resistant PVC Jacketing

- 3.3.1 - May be applied in lieu of metal jacketing provided the jacketing manufacturer's limitations with regard to pipe size, surface temperature and thermal expansion and contraction are followed.

4. ACCESSORIES

- 4.1 - Tie Wire
  - 4.1.1 - 16 gauge (1.6mm) or 18 gauge (1.8mm) Type 304 stainless steel.
- 4.2 - Bands
  - 4.2.1 - 0.5" x 0.020" (13 x 0.5mm) type 304 stainless steel.
  - 4.2.2 - 0.5" x 0.020" (13 x 0.5mm) T-3003 H-14 aluminum.
- 4.3 - Screws
  - 4.3.1 - Galvanized or Stainless steel sheet metal screws #6, #8 or #10 by 3/8" (10mm) long. Hex or pan head.
- 4.4 - Adhesives



