

## Engineering Guide Specification Buckaroos Insulated Saddles

### Cold Piping- CoolDry™ Insulated Saddles

**For all insulated piping 2" IPS and larger, provide insulated saddles as follows:**

- a. For domestic cold water, chilled water and condenser water, as well as domestic hot water, heating water and low pressure steam operating up to 250°F (121°C), the following shall be provided:
  1. Install a minimum 3.75 PCF, non-compressive, rigid phenolic foam insulation to 10" IPS, and 5 PCF rigid phenolic foam for piping from 11" IPS to 30" IPS. The flame and smoke rating of the pipe insulation shall be 25/50 or below per ASTM E-84.
  2. For cold applications below 75°F (24°C), a zero perm rated (ASTM E96), abuse resistant vapor retarder jacket with an 1 ½" wide acrylic longitudinal self-seal tape shall be installed. Matching zero perm Butt Strips will be provided for a complete sealed system. Insulation and zero perm jacketing shall extend 1 ½" beyond the Saddle to allow for sealing the butt joints to be sealed with a 3" wide zero perm Butt Strip Tape.
  3. The 3.75 PCF phenolic foam pipe insulation shall have a K factor of 0.16 Btu-in/hr-ft<sup>2</sup>°F at a mean temperature of 75°F (24°C), and the 5 PCF phenolic foam shall have a K factor of .21 Btu-in/hr-ft<sup>2</sup> when tested to the ASTM C1126 Standard.
  4. Provide visible Inspection Sticker at the bottom of each Saddle.
  5. Pipe Insulation Saddles shall be CoolDry™ Saddles as manufactured by Buckaroos, Inc. or equivalent.