TSSA CODE ADOPTION

GAS-TEC® POLYETHYLENE COATED COPPER TUBING FOR NATURAL GAS & LIQUEFIED PETROLEUM GAS



DATE: DECEMBER 21, 2005

REFERENCE: GAS-TEC PLUS™ APPROVAL

Effective January 1, 2006, TSSA is adopting the CSA B149.1-05 with Ontario amendments and TSSA's Field Approved Code. Of interest to installers of Kamco Products line of Gas tubing is a change to 6.15.4 which provides for the installation of piping or tubing in rocky terrain. The substituted section reads 6.15.4 b) where, due to rocky terrain, it is impractical to comply with section 6.15.4 a) piping and tubing may be installed in accordance with Annex L.

ANNEX L. REPRINTED

1. Use of this product is subject to the approval of the Authority Having Jurisdiction. This product must be installed in accordance with procedures approved by the authority having jurisdiction.
2. When piping or tubing cannot be buried a minimum of 15 inches due to rocky terrain, Type L polyethylene-coated copper tubing sleeved using high-density polyethylene tubing that contains a minimum 2% UV resistance by weight, may be used in accordance with this document and the Manufacturer's Instructions.
3. Tubing shall be installed without joints unless the required distance is beyond 100 ft. Tubing system shall be joined or connected in accordance with clause 6.15.3 and the sleeve shall be connected in accordance with the manufacturer's instructions.
4. Measures shall be taken to ensure that the pipe or tubing is protected from damage from vehicles, snow machines etc. (see clause 6.16.3).
5. Where ground cover is not possible:

   a) Aboveground sections of the tubing sleeve shall be anchored to the contour of a secure rock surface at minimum 10 feet intervals.

   b) The sleeve shall be banded every 3 feet with a high visibility yellow tape.

   c) Piping shall follow the contour of the terrain without unsupported sections of pipe or tubing occurring above grade.
6. The tubing sleeve is to be sealed at each end to prevent the entrance of dirt and moisture.
7. A trench for underground sections of the tubing shall be in compliance with clause 6.15.5. The backfill material shall be free of sharp objects, stones larger than 38 mm or any other material that may damage the piping or tubing.
8. Permanent markers (yellow with black writing) shall be placed along the piping/tubing system every 10 ft warning that the piping/tubing is part of a natural gas or propane system and when installed on rock, the signs shall be anchored to the rock.
9. Permanent markers (yellow with black writing) to be placed at the natural gas meter or propane container, and building or outdoor appliance warning of a shallow underground propane/natural gas piping or tubing system.
10. The markers referred to in 8 and 9 shall be of a height above the anticipated snow level for the area.
11. The PE material being used as protective sleeve shall conform to Standard CGSB 41-GP-25M and shall contain a minimum 2% content of carbon black additive, which gives the product essentially a 50 year life cycle for resistance to UV rays from the sun.

Kamco's Installation Instructions are available on our website at www.kamcoproducts.com, by contacting Kamco by email at connect@glcopper.com and will be included with the product.

If you have any questions, please contact Kamco at 1.800.891.0800 or speak with your local representative.

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