

SECTION 320

CORRUGATED STEEL PIPE

DESCRIPTION

320.01 General - This Section covers the material and fabrication requirements for corrugated steel pipe, spiral rib pipe, and structural plate corrugated steel pipe products for applications such as culverts, storm sewers, sanitary sewers, subdrains, ground recharge systems, well casings, underpasses, stream enclosures, shelters, and tunnels.

Abbreviations for the various types of steel pipe are as follows:

CSP - Corrugated Steel Pipe means Galvanized, Aluminized Type II and Polymer Laminated corrugated steel pipe with helical corrugations, fabricated from coiled steel sheet, with continuous helical seam.

SPCSP - Structural Plate Corrugated Steel Pipe means hot-rolled sheets or plates that are corrugated, curved to radius, custom hot-dip galvanized or has a thermoplastic copolymer coating, assembled, and bolted together to form pipes, pipe-arches, and other shapes. This includes deep corrugated structural plate (type I, II, III).

320.02 Supply and Fabrication

320.02.01 Standards - The supply and fabrication of Corrugated Steel Pipe (CSP) and Structural Plate Corrugated Steel Pipe (SPCSP) including couplers and appurtenances shall be in accordance with CSA Standard G401-14.

320.02.02 Plant Certification:

As of August 1, 2017, all CSP and SPCSP shall be supplied from a manufacturing plant certified to CSA G401 or as amended by Special Provisions.

The certification shall be performed by a 3rd party agency accredited by the Standards Council of Canada. Certified CSP and SPCSP shall be marked according to CSA G401 markings, along with the logo of the 3rd party certification body.

The manufacturer's plant certificate documentation shall be made available to the Ministry upon request. This specification is available from CSA.

320.06 Quality of Work

320.06.01 Inspection – Products shall be made available for inspection and acceptance by the Ministry at the point and time of incorporation into the Work.

320.06.02 Quality Management - The manufacturer shall establish the quality control plan and demonstrate its implementation. The purchaser's Quality Management Plan shall incorporate measures to assure the quality of the materials supplied by the manufacturer meet this Specification.

320.06.03 Quality Assurance Testing – Minimum Quality Assurance (QA) tests and inspection, to be performed by the Contractor, shall be per Table 320-A.