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MATERIAL SPECIFICATION FOR NON-PRESSURE POLYPROPYLENE (PP) PLASTIC PIPE PRODUCTS

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This specification covers the requirements for non-pressure polypropylene (PP) plastic pipe products to be used for sanitary or storm sewers and pipe culverts.

1843.02 REFERENCES

This specification refers to the following standards, specifications, or publications:

CSA Standards

B182.13-11 Profile Polypropylene (PP) Sewer Pipe and Fittings for Leak-Proof Sewer Applications
[Part of B1800-11, Thermoplastic Non-Pressure Pipe Compendium]

1843.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

Certification Body means an independent 3rd party agency, accredited by the Standards Council of Canada that has the qualifications, skills, and expertise required to confirm that a pipe manufacturer

produces pipe products to the quality and requirements of an accepted standard and that has the mandate to certify the pipe products produced.

Certified means pipe products that have been marked with a certification body's logo confirming that the production of the pipe product is in accordance with the quality and requirements of CSA B182.13.

Delivered Quality means the pipe products' physical condition upon arrival at the construction site in terms of the extent and degree of dents, scratches, cracks, pipe coating integrity, etc., that appear on the pipe products delivered.

Polypropylene Plastic means a material made with virgin polymers in which propylene is essentially the sole monomer.

Profile means a pipe wall construction that presents an essentially smooth surface in the waterway but includes ribs or other shapes, which can be either solid or hollow that helps brace the pipe against diametrical deformation.

1843.05 MATERIALS

1843.05.01 Polypropylene Plastic Pipe Products

The moulding and extrusion material shall be polypropylene plastic according to CSA B182.13 for profile sewer and drainage pipe.

1843.07 PRODUCTION

1843.07.01 Requirements

The pipe diameter, stiffness, material, and type for all polypropylene plastic pipe products shall be as specified in the Contract Documents.

Polypropylene plastic pipe products shall be produced according to CSA B182.13 for profile sewer and drainage pipe and fittings.

All polypropylene plastic pipe products used on the Contract for sewers and culverts shall be certified and supplied from a manufacturer that produces the polypropylene plastic pipe products according to CSA B182.13.

When the delivered quality of certified polypropylene plastic pipe products is deemed to be unacceptable by the Contract Administrator, the products shall be rejected.

1843.08 QUALITY ASSURANCE

1843.08.01 Testing

Test methods for profile polypropylene plastic pipe products shall be according to CSA B182.13.

1843.08.02 Markings

Markings for certified polypropylene plastic pipe products shall be according to CSA B182.13.

As a minimum, the following markings shall be placed, notwithstanding any other required markings, in accordance with the applicable standard:

- a) Pipe nominal size.
- b) Standard designation (e.g., CSA B182.13).
- c) Manufacturer.
- d) Accredited certification body's logo.

Accepted certification body logo confirming certified polypropylene plastic pipe products shall be as shown in Figure 1.

1843.08.03 Certificate of Compliance

When requested by the Owner, the Contractor shall provide a copy of the certificate of compliance from the manufacturer for storm sewers and pipe culverts. The manufacturer's certificate of compliance shall be issued by the certification body confirming that the manufacturer produces certified polypropylene plastic pipe products.



FIGURE 1
Warnock Hersey - Intertek Certification Logo