CSA B1800:21
National Standard of Canada

Thermoplastic nonpressure piping compendium

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REVISED OCTOBER 2021

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Revision History

CSA B1800:21, Thermoplastic nonpressure piping compendium

Update No. 1 — October 2021	Revision symbol (in margin)
CSA B181.0:21 Clause 3.2 **CSA B181.1:21** Clauses 5.15.1, 5.15.2.1, and 5.15.2.3 **CSA B181.2:21** Clauses 5.14.1.2, 5.14.1.3, 5.14.2.1, 5.14.2.3, 5.14.3.1, 5.14.3.2, and 5.14.3.3 **CSA B182.1:21** Clauses 4.5.1, 4.5.1.2, 4.5.1.3, 4.5.2, 4.5.3, 4.5.3.1, and 4.5.3.3 **CSA B182.2:21** Clauses 6.1.2.1 and 6.1.2.3	①

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CSA B1800:21
January 2021

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ICS 23.040.45
ISBN 978-1-4883-3107-7

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Preface

This is the seventh edition in the form of a compendium of the CSA B181 and CSA B182 series of Standards, published as CSA B1800, *Thermoplastic nonpressure piping compendium*. It supersedes the previous editions of the compendium, published in 2018, 2015, 2011, 2006, 2002, and 1999. It consists of the following Standards:

- the fifth edition of CSA B181.0, *Definitions, general requirements, and methods of testing for thermoplastic nonpressure piping*, which supersedes the previous editions published in 2018, 2015, 2011, and 2006;
- the twelfth edition of CSA B181.1, *Acrylonitrile-butadiene-styrene (ABS) drain, waste, and vent pipe and pipe fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1996, 1990, 1985, 1973, and 1967;
- the thirteenth edition of CSA B181.2, *Polyvinylchloride (PVC) and chlorinated polyvinylchloride (CPVC) drain, waste, and vent pipe and pipe fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1996, 1990, 1987, 1985, 1973, and 1967;
- the ninth edition of CSA B181.3, *Polyolefin and polyvinylidene fluoride (PVDF) laboratory drainage systems*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1986, and 1971;
- the ninth edition of CSA B181.5, *Coextruded acrylonitrile-butadiene-styrene/polyvinylchloride (ABS/PVC) drain, waste, and vent pipe*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1995, and 1994;
- the thirteenth edition of CSA B182.1, *Plastic drain and sewer pipe and pipe fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1996, 1992, 1987, 1983, 1977, and 1967;
- the tenth edition of CSA B182.2, *PSM type polyvinylchloride (PVC) sewer pipe and fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1995, 1990, and 1983;
- the eleventh edition of CSA B182.4, *Profile polyvinylchloride (PVC) sewer pipe and fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1997, 1992, 1990, and 1983;
- the eighth edition of CSA B182.6, *Profile polyethylene (PE) sewer pipe and fittings for leak-proof sewer applications*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, and 1992;
- the sixth edition of CSA B182.8, *Profile polyethylene (PE) storm sewer and drainage pipe and fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, and 2002;
- the ninth edition of CSA B182.11, *Standard practice for the installation of thermoplastic drain, storm, and sewer pipe and fittings*, which supersedes the previous editions published in 2018, 2015, 2011, 2006, 2002, 1999, 1995, and 1967;
- the fourth edition of CSA B182.13, *Profile polypropylene (PP) sewer pipe and fittings for leak-proof sewer applications,* which supersedes the previous editions published in 2018, 2015 and 2011;
- the third edition of CSA B182.14, *Profile steel reinforced polyethylene (SRPE) storm sewer pipe and fittings*, which supersedes the previous edition published in 2018 and 2015; and
- the third edition of CSA B182.15, *Profile steel reinforced polyethylene (SRPE) sewer pipe and fittings*, which supersedes the previous edition published in 2018 and 2015.

The major changes in this new edition are

- clarification that venting of combustion gases is not covered by CSA B181.0, CSA B181.1, and CSA B181.2;
- clarification that carbon black dispersion is applicable only to pipe in CSA B181.1;

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- revision to the number of specimens to dimension in CSA B181.1, CSA B181.2, CSA B181.3, CSA B182.1, and CSA B182.2;
- revision to the weld integrity test in CSA B182.6, CSA B182.8, CSA B182.13, CSA B182.14, and CSA B182.15;
- removal of the airtightness test in CSA B182.6, CSA B182.8, CSA B182.13, CSA B182.14, and CSA B182.15;
- revision to the specimen requirements for the pipe stiffness and compression strength tests in CSA B182.6, CSA B182.8, and CSA B182.13;
- revision to the base inside diameter requirements in Table B.1 of CSA B182.6 and CSA B182.8 and Tables B.1 and B.2 in CSA B182.13;
- revision to the scope and additional requirements included for recycled materials in CSA B182.8; and
- revision to the PE compound requirements in CSA B182.8.

These Standards are considered suitable for use for conformity assessment within the stated scopes of the Standards.

These Standards were prepared by the Technical Committee on Plastic Nonpressure Piping, under the jurisdiction of the Strategic Steering Committee on Construction and Civil Infrastructure, and have been formally approved by the Technical Committee.

These Standards have been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. They have been published as National Standards of Canada by CSA Group.

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ICS 23.040.45
ISBN 978-1-4883-3107-7

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CSA B181.0:21
Definitions, general requirements, and methods of testing for thermoplastic nonpressure piping

1 Scope

1.1 Scope of the B1800 compendium

This Standard covers thermoplastic nonpressure piping, including

a) drain, waste, and vent pipe and pipe fittings;
b) sewer and storm pipe and pipe fittings; and
c) accessories such as factory-assembled expansion joints, closet flanges, backwater valves, and cleanouts.

Note: *This Standard does not specify requirements for venting of combustion gases. In Canada, ULC S636 specifies testing and marking requirements for pipe, fittings, and accessories intended for venting of combustion gases. In the United States, UL 1738 specifies testing and marking requirements for pipe, fittings, and accessories intended for venting of combustion gases.*

1.2 Scope of this Standard

This Standard specifies general requirements for compounds and for manufactured pipe and pipe fittings, the relevant test methods, and marking requirements.

1.3 Intent of this Standard

This Standard is intended to be used in conjunction with one of the other Standards in the CSA B181 or CSA B182 series to form a complete Standard for a particular product.

1.4 Terminology

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

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