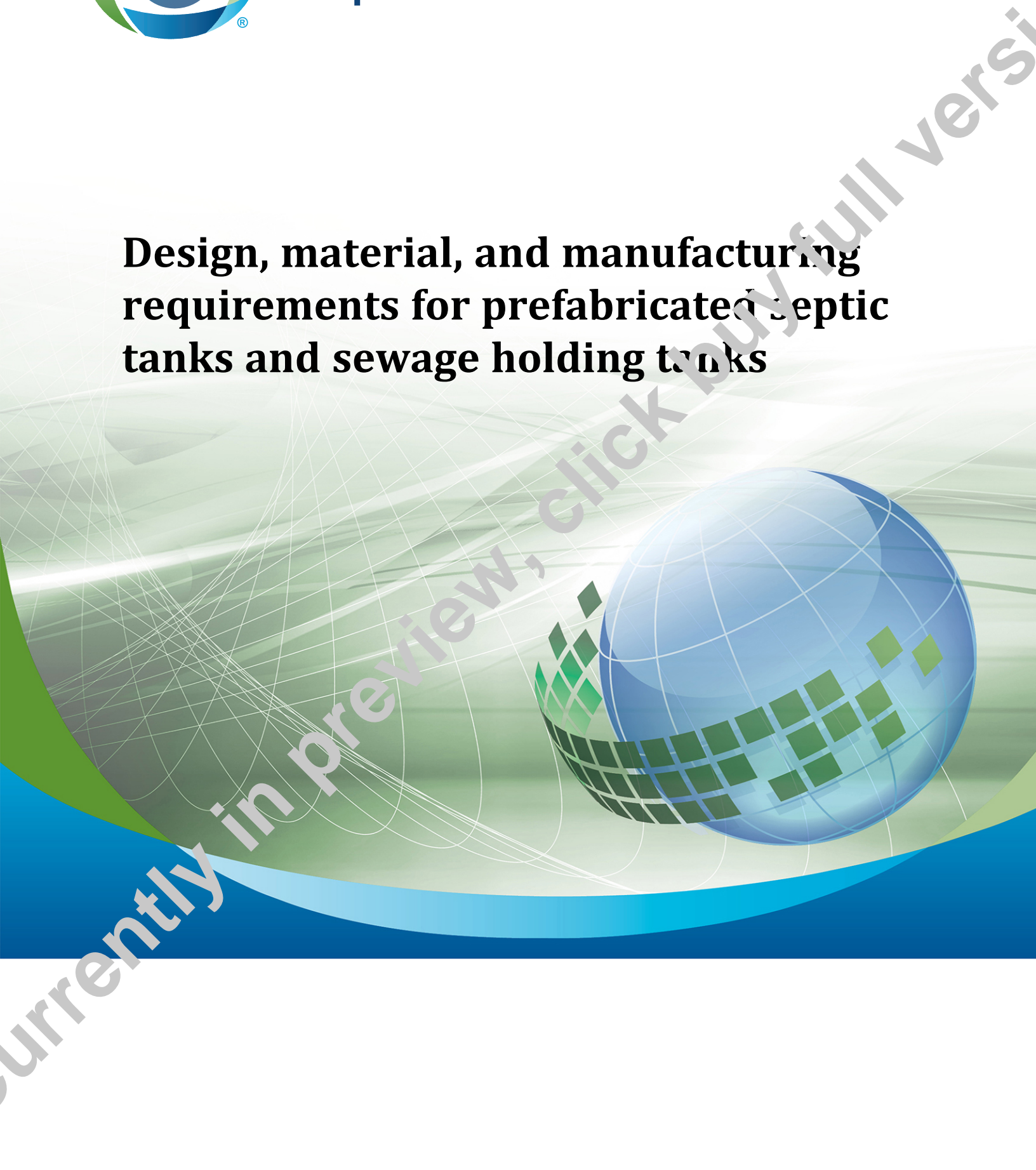




**CSA
Group**

**Design, material, and manufacturing
requirements for prefabricated septic
tanks and sewage holding tanks**



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sewage holding tanks***



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Contents

| | |
|--|-----------|
| Technical Committee on Decentralized Wastewater Systems | 4 |
| Subcommittee on Septic Tanks | 8 |
| Preface | 9 |
| 1 Scope | 10 |
| 2 Reference publications | 11 |
| 3 Definitions | 13 |
| 4 General requirements | 16 |
| 4.1 All tanks | 16 |
| 4.1.1 Materials | 16 |
| 4.1.2 Quality control | 16 |
| 4.1.3 Assembly | 16 |
| 4.1.4 Strength and watertightness | 16 |
| 4.1.5 Inlet and outlet connectors | 17 |
| 4.1.6 Metallic fasteners | 17 |
| 4.2 Septic tanks | 17 |
| 4.2.1 Minimum working capacity | 17 |
| 4.2.2 Liquid depth | 17 |
| 4.2.3 Inlet and outlet devices | 18 |
| 4.2.4 Scum capacity/air space | 18 |
| 4.2.5 Sewage travel | 18 |
| 4.2.6 Access openings | 19 |
| 4.2.7 Other openings | 19 |
| 4.2.8 Compartmentalization | 19 |
| 4.2.9 Equivalency test | 20 |
| 4.3 Effluent chambers | 20 |
| 4.3.1 Outlet device | 20 |
| 4.3.2 Siphon materials | 20 |
| 4.3.3 Siphon flush rate and cycles | 20 |
| 4.3.4 Venting | 20 |
| 4.4 Sewage holding tanks | 20 |
| 4.4.1 Access and pump-out openings | 20 |
| 4.4.2 Venting | 20 |
| 4.4.3 Other openings | 21 |
| 4.4.4 Alarm system | 21 |
| 4.4.5 Weatherproofing, ultraviolet radiation protection, and hold-down and support systems | 21 |
| 5 Steel tanks | 21 |
| 5.1 Corrosion protection | 21 |
| 5.2 Baffles | 21 |
| 5.3 Steel septic tanks | 21 |
| 5.4 Steel sewage holding tanks | 21 |

| | | |
|----------|--|-----------|
| 5.4.1 | Underground steel sewage holding tanks | 21 |
| 5.4.2 | Above-ground steel sewage holding tanks | 22 |
| 6 | Concrete tanks | 22 |
| 6.1 | Materials | 22 |
| 6.1.1 | Cements and supplementary cementitious materials | 22 |
| 6.1.2 | Mixing water, aggregates, and admixtures | 22 |
| 6.1.3 | Reinforcement | 22 |
| 6.2 | Concrete | 24 |
| 6.2.1 | Strength | 24 |
| 6.2.2 | Air entrainment | 24 |
| 6.2.3 | Water/cementitious material ratio | 24 |
| 6.3 | Manufacture | 25 |
| 6.3.1 | Concrete thickness | 25 |
| 6.3.2 | Resistance to cracking | 25 |
| 6.3.3 | Lifting hooks or other lifting devices | 25 |
| 6.3.4 | Concrete access opening covers | 25 |
| 6.3.5 | Quality of work and finish | 25 |
| 7 | Fibreglass-reinforced polyester tanks | 25 |
| 7.1 | General | 25 |
| 7.2 | Laminate | 25 |
| 7.2.1 | Description | 25 |
| 7.2.2 | Interior chemical-resistant layer | 25 |
| 7.2.3 | Interior anti-wicking layer | 26 |
| 7.2.4 | Structural layer | 26 |
| 7.2.5 | Exterior surface layer | 26 |
| 7.2.6 | Edge treatment | 26 |
| 7.2.7 | Laminate hardness | 26 |
| 7.2.8 | Quality of work and finish | 26 |
| 7.3 | Materials | 26 |
| 7.3.1 | Resin | 26 |
| 7.3.2 | Reinforcement | 26 |
| 7.4 | Additives | 27 |
| 7.4.1 | Thixotropic additives | 27 |
| 7.4.2 | Colourants | 27 |
| 7.4.3 | Resin extenders | 27 |
| 8 | Thermoplastic tanks | 27 |
| 8.1 | Blow-moulded and rotational-moulded polyethylene tanks | 27 |
| 8.1.1 | Compound | 27 |
| 8.1.2 | Wall thickness | 27 |
| 8.2 | Extruded polyethylene and polyvinylchloride tanks | 27 |
| 8.2.1 | Compound | 27 |
| 8.2.2 | Stiffness | 28 |
| 8.2.3 | End wall thickness | 28 |
| 8.3 | Injection-moulded tanks | 28 |
| 8.3.1 | Compound | 28 |
| 8.3.2 | Wall thickness | 28 |

| | | |
|-----------|--|-----------|
| 8.4 | Quality of work and finish | 28 |
| 9 | Testing (effluent chambers, septic tanks, and sewage holding tanks) | 28 |
| 9.1 | Volumes, capacities, rates, and dimensions | 28 |
| 9.2 | Strength tests | 28 |
| 9.2.1 | Steel tanks | 28 |
| 9.2.2 | Concrete, fibreglass-reinforced polyester, and thermoplastic tanks | 28 |
| 9.2.3 | Vacuum test | 29 |
| 9.2.4 | Top-loading test | 29 |
| 9.3 | Chamber divider and partition tests | 30 |
| 9.3.1 | Chamber divider test | 30 |
| 9.3.2 | Partition (tank divider) test | 30 |
| 9.4 | Watertightness test | 30 |
| 9.5 | Siphon test | 31 |
| 9.6 | Environmental stress crack resistance test | 31 |
| 10 | Markings and instructions | 31 |
| 10.1 | Type and location | 31 |
| 10.2 | Information | 31 |
| 10.3 | Warning | 32 |
| 10.4 | Instructions | 32 |

Annex A (informative) — Typical layouts of septic tanks 34

Annex B (normative) — Equivalency testing 37

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Preface

This is the eighth edition of CSA B66, *Design, material, and manufacturing requirements for prefabricated septic tanks and sewage holding tanks*. It supersedes the previous editions, published in 2010 and 2005 under the same title, and published in 2000, 1990, 1985, 1979, and 1975 under the title *Prefabricated Septic Tanks and Sewage Holding Tanks*.

Major changes in this edition include

- a) new requirements for the assessment of sewage tanks, other than septic tanks and holding tanks, with regard to structural sufficiency and watertightness;
- b) clarification of inlet tee requirements;
- c) clarification of volume–depth labelling requirements;
- d) revision to chamber divider test parameters; and
- e) clarification of gasket, sealant, and joint fabrication requirements.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Septic Tanks, under the jurisdiction of the Technical Committee on Decentralized Wastewater Systems and the Strategic Steering Committee on Construction and Civil Infrastructure, and has been formally approved by the Technical Committee.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

B66-16

Design, material, and manufacturing requirements for prefabricated septic tanks and sewage holding tanks

1 Scope

1.1

This Standard specifies minimum design and material requirements as well as manufacturing practices and markings for prefabricated septic tanks, sewage holding tanks, and effluent chambers made of steel, concrete, fibreglass-reinforced plastic (FRP), polyvinylchloride (PVC), polypropylene (PP), polyethylene (PE), or other thermoplastics that are designed to handle sewage or sewage effluent.

1.2

This Standard can be used to assess tanks, other than septic tanks and holding tanks, for structural sufficiency and watertightness.

Note: *Other tanks used in sewage systems include, but are not limited to, the following:*

- a) *tanks used for wastewater treatment plants;*
- b) *tanks used as trash tanks;*
- c) *pre-aeration tanks;*
- d) *sewage flow-equalization tanks; and*
- e) *tanks used for pit privies.*

1.3

This Standard does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and to determine the applicability of any regulatory limitations before use.

1.4

This Standard does not apply to sewage holding tanks used in recreational vehicles, which are covered in CAN/CSA-B45.6.

1.5

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.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

CSA Group

A23.1-14/A23.2-14

Concrete materials and methods of concrete construction/Test methods and standard practices for concrete

CAN/CSA-A3000-13

Cementitious materials compendium

CAN/CSA-A3001-13

Cementitious materials for use in concrete

CAN/CSA-B45 Series-02 (R2013)

Plumbing fixtures

CAN/CSA-B45.6-02 (R2013)

Nonrecirculating toilets and waste-holding tanks for use in recreational vehicles

CAN/CSA-B1800-15

Thermoplastic nonpressure piping compendium

CAN/CSA-B182.4-15

Profile polyvinylchloride (PVC) sewer pipe and fittings

CAN/CSA-B182.6-15

Profile polyethylene (PE) sewer pipe and fittings for leak-proof sewer applications

G30.18-09 (R2014)

Carbon steel bars for concrete reinforcement

W186-M1990 (R2012)

Welding of reinforcing bars in reinforced concrete construction

ACI (American Concrete Institute)

544.3R-08

Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete

ASTM International

A1064/A1064M-16b

Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete