

## Grade-level in-ground enclosures



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# Preface

This is the first edition of CSA C22.2 No. 344, *Grade-level in-ground enclosures*. It is one of a series of Standards issued under Part II of the *Canadian Electrical Code*.

For general information on the Standards of the *Canadian Electrical Code, Part II*, see the Preface of the latest edition of CSA C22.2 No. 0.

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 Underground Junction Boxes, under the jurisdiction of the Technical Committee on Wiring Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

## 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 in full agreement with all clauses of this Standard.*
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  - 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.*

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  - b) *relevant clause, table, and/or figure number;*
  - c) *wording of the proposed change; and*
  - d) *rationale for the change.*

# CSA C22.2 No. 344:20

## Grade-level in-ground enclosures

### 1 Scope

#### 1.1

This Standard provides requirements for grade-level, in-ground enclosures. The enclosures are made of polymer concrete, composite, or plastic (enclosure covers may be made of metal), intended for conductors and connections at voltages 750 V or less.

#### 1.2

These enclosures are not intended to be installed where vehicular traffic normally occurs.

#### 1.3

These enclosures are intended to withstand the weight duty classes specified by the manufacturer in accordance with the defined application per Table 1.

#### 1.4

These enclosures are not intended to be waterproof and can be subject to water ingress.

#### 1.5

Enclosures used in electrical applications are to be installed in accordance with the *Canadian Electrical Code, Part I*.

#### 1.6

This Standard does not cover

- a) in-ground boxes for use in hazardous locations as defined in the *Canadian Electrical Code, Part I*;
- b) junction boxes for swimming pools covered by CSA C22.2 No. 89;
- c) commercial appliance outlet covers covered by CSA C22.2 No. 244;
- d) products covered by CSA C22.2 No. 198.2;
- e) boxes covered by CSA C22.2 No. 337 and ULC/ORD-C2996; and
- f) enclosures covered by CSA A23.4.

#### 1.7

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.