



Bureau de normalisation  
du Québec

# CAN/BNQ 2501-058/2017 (R 2022)

**Soils — Determination of In-Place Density of Soil  
Using a Flexible Membrane (Water Volume)**

scc  ccn



**STANDARD**



CAN/BNQ 2501-058/2017  
(R 2022)

Soils — Determination of In-Place Density of Soil Using  
a Flexible Membrane (Water Volume)

*Sols — Détermination de la masse volumique du sol en place  
à l'aide d'une membrane flexible (volume d'eau)*

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**SIXTH EDITION — 2022-08-10**

This edition reaffirms (reapproves) the edition dated March 20, 2017, which now includes Amendment No. 1 dated April 21, 2022. Consequently, this edition is equivalent to the previous edition.

The edition number of this English version was corrected to match that of the French version. Therefore, it has been incremented from the fourth edition to the sixth edition.

The decision resulting from the systematic review that will enable to determine whether the current document shall be modified, revised, reaffirmed or withdrawn will be implemented no later than at the end of August 2027.

**ICS:** 13.080.05; 13.080.20; 17.060.

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This document was developed in compliance with the Standards Council of Canada (SCC)'s Requirements and Guidance for standards development organizations and approved as a reaffirmed National Standard of Canada by the SCC. Its reaffirmation was approved by a Standards Development Committee, whose members were:

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TOURNIER, Jean-Pierre	Hydro-Québec

### **Test Laboratories**

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The 2017 edition of this document was approved as a reaffirmed National Standard of Canada by the Standards Council of Canada (SCC). It was approved by a Standards Development Committee, whose members were:

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## SOILS — DETERMINATION OF IN-PLACE DENSITY OF SOIL USING A FLEXIBLE MEMBRANE (WATER VOLUME)

### 1 PURPOSE AND SCOPE

This standard specifies the test method to be used to determine the in-place density of soil. This procedure is particularly suitable for soils containing particles with a diameter of 80 mm or more.

### 2 NORMATIVE REFERENCE

The reference below (including any amendment or errata) is a normative reference, and is therefore considered mandatory. It is essential to the understanding and use of this document, and is cited in appropriate places in the text.

It should be noted that a dated normative reference refers to that specific edition of the reference, while a non-dated normative reference refers to the latest edition of the reference in question.

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CAN/BNQ 2501-170

*Soils — Determination of Water Content.*  
(Sols — Détermination de la teneur en eau.)

### 3 DEFINITIONS

For the purpose of this document, the following definitions shall apply:

**dry density of soil ( $\rho_d$ )**, n. the mass of dry soil divided by its volume. French: *masse volumique du sol sec* ( $\rho_d$ ).

**wet density of soil ( $\rho_h$ )**, n. the mass of wet soil divided by its volume. French: *masse volumique du sol humide* ( $\rho_h$ ).