



**Bureau de normalisation  
du Québec**

# **CAN/BNQ 2501-054/2017 (R 2022)**

**Soils — Determination of In-Place Density  
of Soil Using an Elastic Membrane**

scc  ccn



**STANDARD**



CAN/BNQ 2501-054/2017  
(R 2022)

Soils — Determination of In-Place Density  
of Soil Using an Elastic Membrane

*Sols — Détermination de la masse volumique du sol  
en place à l'aide d'une membrane élastique*

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systematic review that will enable to determine whether the current document shall be modified, revised, reaffirmed or withdrawn will be implemented no later than at the end of August 2027.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

### 1 PURPOSE AND SCOPE

This standard specifies the test method used to determine the in-place density of soil using a plastic rubber elastic membrane. However, this test cannot be used on very soft soil that deforms under slight pressure or when the volume of the hole cannot be kept constant. Using a 100 mm diameter apparatus, the test is limited to soils containing particles no greater than 5 mm in diameter.

### 2 NORMATIVE REFERENCES

The references below (including any amendment or errata) are normative references, and are therefore considered mandatory. They are essential to the understanding and use of this document, and are 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.)

**ISO (International Organization for Standardization)** [[www.iso.org](http://www.iso.org)]

ISO 3310-1: 2016

*Test Sieves — Technical Requirements and Testing — Part 1: Test Sieves of Metal Wire Cloth.*  
(Tamis de contrôle — Exigences techniques et vérifications — Partie 1: Tamis de contrôle en tissus métalliques.)