



Bureau de normalisation
du Québec

CAN/BNQ 2501-140/2015 (R 2022)

**Soils — Standard Penetration Test (SPT)
and Sampling with a Split-Barrel Sampler**

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STANDARD

CAN/BNQ 2501-140/2015
(R 2022)

Soils — Standard Penetration Test (SPT)
and Sampling with a Split-Barrel Sampler

Sols — Essai de pénétration standard (SPT) et échantillonnage au carottier fendu

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This is a reaffirmation (reapproval) of the edition dated October 23, 2015.

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FOREWORD

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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SOILS — STANDARD PENETRATION TEST (SPT) AND SAMPLING WITH A SPLIT-BARREL SAMPLER

1 PURPOSE AND SCOPE

This document specifies the method for the Standard Penetration Test (SPT) used to determine the penetration index N in a vertical drilling and obtain a disturbed soil sample.

The Standard Penetration Test is used during geotechnical investigations for the purpose of determining the nature and compaction of the soil.

NOTE — Annex A provides, for general guidance purposes, various information regarding this test method.

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.

ASTM International [www.astm.org]

ASTM D4633

*Standard Test Method for Energy Measurement
for Dynamic Penetrometers.*

3 DEFINITIONS

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

penetration index (N), n. Number of blows necessary for a hammer of 63.5 kg, free falling from a height of 760 mm, to drive a standard split-barrel sampler into soil at the bottom of a borehole at penetration increments of 150 mm to 450 mm. French: *indice de pénétration (N)*.