



Bureau de normalisation
du Québec

CAN/BNQ 2501-145/2015 (R 2022)

Soils — Dynamic Cone Penetration Test

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STANDARD

CAN/BNQ 2501-145/2015
(R 2022)

Soils — Dynamic Cone Penetration Test

Sols — Essai de pénétration dynamique au cône

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SECOND EDITION — 2022-04-28

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

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systematic review that will enable to determine whether the current document shall be modified, revised, reaffirmed or withdrawn will be implemented no later than at the end of April 2027.

ICS: 13.080.20.

ISBN 978-2-551-26807-8 (printed version)
ISBN 978-2-551-26808-5 (PDF)

Legal deposit — Bibliothèque et Archives
nationales du Québec, 2022

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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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The 2015 edition of this document was approved as a National Standard of Canada by the Standards Council of Canada (SCC). It was approved by a Standards Development Committee, whose voting members were:

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SOILS — DYNAMIC CONE PENETRATION TEST

1 PURPOSE AND SCOPE

This document specifies the procedure for the dynamic cone penetration test used to determine the penetration index N_c in a vertical drilling.

This test is used during geotechnical investigations for the purpose of determining the resistance profile of a soil to cone penetration.

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 DEFINITION

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

cone penetration index (N_c), n. Number of blows necessary for a hammer of 63.5 kg, free falling from a height of 760 mm, to drive a standard conical tip located at the end of an AW-gauge drill-rod string over a penetration of 300 mm. French: *indice de pénétration au cône (N_c)*.