Bureau de normalisation du Québec

BNQ 7009-910/2018

Geotextiles Used in Road Engineering — Certification Protocol

CERTIFICATION

BNQ 7009-910/2018

Geotextiles Used in Road Engineering — Certification Protocol

Géotextiles utilisés en génie routier — Protocole de certification

Bureau de normalisation du Québec

Bureau de normalisation du Québec

The *Bureau de normalisation du Québec* (BNQ) is a standardization organization based in Quebec which is part of the *Centre de recherche industrielle du Québec* (CRIQ). The BNQ was created in 1961. It is one of the standards development organizations accredited by the Standards Council of Canada and as such, is part of the National Standards System.

The *Bureau de normalisation du Québec* devotes its activities to the production of standards that meet the needs of the industry, public, and para-public organizations, as well as concerned groups; it is also responsible for the certification of products, processes, and services from the standards itas developed by affixing its own mark of conformity when it is appropriate. Lastly, the BNQ offers an information service to manufacturers wishing to comply with the standards for the manufacture and export of various products and the delivery of services with respect to the standards both in Quebec, as well as national and international standards.

THIRD EDITION — 2018-11-01

This new edition supersedes the edition dated December 3, 2007.

This document is published in both French and English. In case of incompatibility, the French version prevails.

ICS: 03.120.20; 59.080.70

ISBN 978-2-551-26356-1 (printed version)
ISBN 978-2-551-26357-8 (PDF)

Legal deposit — Bibliothèque et Archives nationales du Québec, 2018

REQUEST FOR INFORMATION AND PURCHASE

Any request for information or purchase of this document may be sent to the Bureau de normalisation du Québec (BNQ) at 333, rue Franquet, Québec, Québec G1P 4C7
[telephone: 418-652-2238, ext. 2437 or 1-800-386-5114; fax: 418 652-2292;
E-mail: bnqinfo@bnq.qc.ca; Web Site: www.bnq.qc.ca].

REVISION OF BNQ DOCUMENTS

Collaboration from BNQ document users is essential in keeping our documents up to date. Therefore, any suggestion aimed at improving their contents will be appreciated. We ask you to send us your suggestions or comments on the form at the end of this document.

The electronic or printed version of this document is for personal use only. Distribution to third parties, partners or clients, as well as saving, distribution or use on a computer network is forbidden without written agreement from the BNQ.

Only purchasers duly registered with BNQ Customer Service will receive document updates. Notifications and the catalogue may be consulted at all times on the BNQ Web site [www.bnq.qc.ca] to verify if a more recent version of a document exists or if amendments or errata have been published.

If a registered purchaser wishes to continue to receive updates, the purchaser must inform BNQ Customer Service of any change of address as soon as possible.

This document is the result of thousands of hours of work provided on a voluntary basis by many community experts. We thank you for taking this into account, and for your contribution through your purchase of this document for its evolution in the years to come.

FOREWORD

This document was revised in consultation with the Certification Protocol Development Committee on Geotextiles Used in Road Engineering, whose members were:

Suppliers

ANDERSON, Paul	Innovex Produits Techniques
BÉRUBÉ, Danny	Texel matériaux techniques
PÉPIN, François	Soleno textiles techniques
THÉORÊT, Richard	Les plastiques Desmarais P & F

Users

ABESQUE, Charles	Association des constructeurs de routes et grands travaux du Québec (ACRGTQ)
BERGERON, Patrice	Ville de Québec — Service de l'ingénierie
BERNARD, France	Ville de Montréal
SAINT-LAURENT, Denis	Ministère des Transports, de la Mobilité durable et de l'Électrification des transports (MTMDET) — Direction du laboratoire des chaussées — Service des chaussées

General Interest

BLOND, Éric	Groupe CTT — Division SAGEOS
PERRATON, Daniel	École de technologie supérieure (ÉTS) — Département de génie de la construction
RODGERS, Solange	Ministère des Transports, de la Mobilité durable et de l'Électrification des transports (MTMDET) — Direction du laboratoire des chaussées — Service des matériaux d'infrastructure

Coordination

DUPONT, Nathalie (Program Leader)	Bureau de normalisation du Québec (BNQ)

Linguistic Review

GILES, Éveline (Linguistic Reviser)	Bureau de normalisation du Québec (BNQ)

The collaboration or the participation of the following people is also worthy of mention:

BÉLIVEAU, François	Ville de Québec — Service de l'ingénierie
BLAIR, John	Ontario Ministry of Transportation
DANIS, Isabelle	Association des constructeurs de routes et grands travaux du Québec (ACRGTQ)
FLEURY, Kathie	Soleno textiles techniques
MAGNAN, Joël	Ontario Ministry of Transportation
RODEK, Amanda	Ontario Ministry of Transportation
TRACHY, Renée	Texel matériaux techniques

The development of this document was made possible thanks to the financial support of the following organizations: Texel matériaux techniques and Soleno textiles techniques.

CONTENTS

GEOTEXTILES USED IN ROAD ENGINEERING — CERTIFICATION PROTOCOL

INTRODUCTION

This certification protocol BNQ 7009-910, now in its third edition, marks a significant change in the way geotextiles used in road engineering are certified.

On the one hand, standard BNQ 7009-210, whose first edition was published in November 2017, is now used as a normative reference rather than the technical specification GCTTG 3001, published by the CTT Group in 2006.

It should be noted that the technical specification GCTTG 3001 specifies the tolerances of variation of physical and hydraulic properties related to a nominal value announced by the manufacturer.

The approach recommended in the standard BNQ 7009-210 consists in fixing the values relative to the physical, durability, mechanical and hydraulic characteristics applicable to the main intended function of the geotextile. Four main functions are considered: reinforcement, separation, protection and filtration; analytical criteria are presented for information to assist the designer in selecting the appropriate standard grade for the intended use.

This approach therefore makes it possible to obtain geotextiles whose quality is standardized and enhanced in this field of road engineering use.

On the other hand, this certification protocol BNQ 7009-910 also allows the certification of geotextiles in accordance with the requirements established in the technical specification OPSS 1860 of the Ontario Ministry of Transportation.

1 PURPOSE OF THE DOCUMENT AND PROGRAM SCOPE

The purpose of this document is to establish the requirements of the certification programs of the Bureau de normalisation du Québec (BNQ) that apply to conformity evaluation activities of geotextiles used in road engineering in accordance with the requirements of the standard BNQ 7009-210 and the technical specification OPSS 1860.

NOTE — Conformity evaluation is defined as the systematic examination of the extent to which a product fulfils specified requirements.

This document is for manufacturers seeking to have the conformity of their products recognized by the BNQ.

NOTE — This document is also intended for project owners seeking to use any of the BNQ certification programs covered in this document by its reference in their contractual documents.

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.

NOTE — This document also cites informative references that are of a non-mandatory nature. A list of these references is provided in the appendix.

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.

2.1 DOCUMENTS FROM A STANDARDS BODY

BNQ (Bureau de normalisation du Québec) [www.bnq.qc.ca]

BNQ 7009-210	*Geotextiles Used in Road Engineering — Classification, Characteristics and Test Methods*. (Géotextiles utilisés en génie routier — Classification, caractéristiques et méthodes d'essai.)
BNQ 9902-001	*Product, Process and Service Certification — General Rules of Procedure.* (Certification de produits, de processus et de services — Règles de procédure générales.)

2.2 OTHER DOCUMENT

Ontario Ministry of Transportation [www.mto.gov.on.ca]

OPSS 1860	*Material Specification for Geotextiles.*