



Government
of Canada

Gouvernement
du Canada

Canadian General
Standards Board

Office des normes
générales du Canada

Series 138
Série des 138

WITHDRAWAL

October 2017

Standards in series Fencing products

These National Standards of Canada are hereby withdrawn as information contained therein may no longer represent the most current, reliable, and/or available information on these subjects. This withdrawal notice removes all remaining standards in the series.

The Standards Council of Canada requires that accredited Standards Development Organizations, such as the CGSB, regularly review a consensus Standard to determine whether to re-approve, revise or withdraw. The review cycle is normally five years from the publication date of the latest edition of the Standard. CGSB retains the right to develop new editions.

The information contained in these Standards was originally developed pursuant to a voluntary standards development initiative of the CGSB. The information contained therein may no longer represent the most current, reliable, and/or available information on these subjects. CGSB hereby disclaims any and all claims, representation or warranty of scientific validity, or technical accuracy implied or expressed respecting the information therein contained. The CGSB shall not take responsibility nor be held liable for any errors, omissions,

RETRAIT

Octobre 2017

Normes de la série Produits pour clôture

Ces Normes nationales du Canada sont retirées par le présent avis car l'information contenue peut ne plus représenter l'information disponible et/ou l'information la plus actuelle ou la plus fiable à ce sujet. Cet avis de retrait supprime toutes les normes restantes de la présente série.

Le Conseil canadien des normes exige que les organismes accrédités d'élaboration de normes, tel que l'ONGC, effectue régulièrement un examen des normes consensuelles afin de déterminer s'il y a lieu d'en renouveler l'approbation, de les réviser ou de les retirer. Le cycle d'examen d'une norme est généralement de cinq ans à partir de la date de publication de la dernière édition de celle-ci. L'ONGC se réserve le droit d'élaborer de nouvelles éditions.

L'information contenue dans ces normes a été élaborée initialement en vertu d'une initiative volontaire d'élaboration de normes de l'ONGC. Elle peut ne plus représenter l'information disponible et/ou l'information la plus actuelle ou la plus fiable à ce sujet. L'ONGC décline par la présente toute responsabilité à l'égard de toute affirmation, déclaration ou garantie de validité scientifique ou d'exactitude technique implicite ou explicite relative à l'information contenue dans ces normes. L'ONGC n'assumera aucune responsabilité et ne sera pas tenu responsable quant à toute

inaccuracies or any other liabilities that may arise from the provision or subsequent use of such information.

Copies of withdrawn standards are available from the CGSB Sales Centre by telephone at 819-956-0425 or 1-800-665-2472, by fax at 819-956-5740, by Internet at www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html, by e-mail at ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca or by mail at Sales Centre, Canadian General Standards Board, 11 Laurier Street, Gatineau, Canada K1A 1G6.

CAN/CGSB-138.1-96

Fabric for Chain Link Fence (ICS 91.090)

CAN/CGSB-138.2-96

Steel Framework for Chain Link Fence (ICS 91.090)

CAN/CGSB-138.3-96

Installation of Chain Link Fence (ICS 91.090)

CAN/CGSB-138.4-96

Gates for Chain Link Fence (ICS 91.090)

erreur, omission, inexactitude ou autre conséquence pouvant découler de la fourniture ou de l'utilisation subséquente de cette information.

Des copies des normes retirées peuvent être obtenues auprès du Centre des ventes de l'ONGC. Il suffit d'en faire la demande par téléphone au 819-956-0425 ou 1-800-665-2472, par télécopieur au 819-956-5740, par Internet à : www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-fra.html, par courriel à ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca, ou par courrier adressé au Centre des ventes, Office des normes générales du Canada, 11, rue Laurier, Gatineau, Canada K1A 1G6.

CAN/CGSB-138.1-96

Grillage métallique pour clôture (ICS 91.090)

CAN/CGSB-138.2-96

Monture en acier pour clôture grillagée (ICS 91.090)

CAN/CGSB-138.3-96

Installation des clôtures grillagées (ICS 91.090)

CAN/CGSB-138.4-96

Barrière pour clôture grillagée (ICS 91.090)



Canadian
General
Standards
Board

CAN/CGSB-138.4-96

Supersedes CAN/CGSB-138.4-M82

Gates for Chain Link Fence

WITHDRAWN

National Standard of Canada



The CANADIAN GENERAL STANDARDS BOARD (CGSB), under whose auspices this standard has been developed is a government agency within the Federal Department of Supply and Services. CGSB is engaged in the production of voluntary standards in a wide range of subject areas through the media of standards committees and the consensus process. The standards committees are composed of representatives of relevant interests including producers, consumers and other users, retailers, governments, educational institutions, technical, professional and trade societies, and research and testing organizations. Any given standard is developed on the consensus of views expressed by such representatives. The Minister's Advisory Council on CGSB reviews the results of the consensus process.

CGSB has been accredited by the Standards Council of Canada as a national standards-writing organization. The standards that it develops and offers as National Standards of Canada conform to the criteria and procedures established for this purpose by the Standards Council of Canada. In addition to standards it publishes as national standards, CGSB produces standards to meet particular needs, in response to requests from a variety of sources in both the public and private sectors. Both CGSB standards and national standards developed by CGSB are developed in conformance with the policies described in the Policy Manual for the Development and Maintenance of Standards by CGSB.

CGSB standards are subject to review and revision at any time, so as to ensure that they keep abreast of technological progress. Suggestions for their improvement, which are always welcome, should be brought to the notice of the standards committees concerned. Changes to standards are issued either as separate amendment sheets or in new editions of standards.

An up-to-date listing of CGSB standards, including details on latest issues and amendments, and ordering instructions, will be found in the CGSB Catalogue, which is published annually and is available without charge upon request.

Although the intended primary application of this standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Many tests required by CGSB standards are inherently hazardous. CGSB neither assumes nor accepts any responsibility for any injury or damage that may occur during or as the result of tests, wherever performed.

CGSB takes no position respecting the validity of any patent rights asserted with any item connected with this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights are entirely their own responsibility.

Further information on CGSB and its services and standards may be obtained from:

The Manager
Standardization Information Division
Canadian General Standards Board
Ottawa, Canada
K1A 1G6

The STANDARDS COUNCIL OF CANADA is the co-ordinating body of the National Standards System, a federation of independent, autonomous organizations working towards the further development and improvement of voluntary standardization in the national interest.

The principal objectives of the Council are to foster and promote voluntary standardization as a means of advancing the national economy, benefiting the health, safety and welfare of the public, assisting and protecting the consumer, facilitating domestic and international trade, and furthering international co-operation in the field of standards.

A National Standard of Canada is a standard which has been approved by the Standards Council of Canada and one which reflects a reasonable agreement among the views of a number of capable individuals whose collective interests provide, to the greatest practicable extent, a balance of representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. It normally is a standard that is capable of making a significant and timely contribution to the national interest.

Approval of a standard as a National Standard of Canada indicates that a standard conforms to the criteria and procedures established by the Standards Council of Canada. Approval does not refer to the technical content of the standard; this remains the continuing responsibility of the accredited standards-writing organization.

Those who have a need to apply standards are encouraged to use National Standards of Canada whenever practicable. These standards are subject to periodic review; therefore, users are cautioned to obtain the latest edition from the organization preparing the standard.

The responsibility for approving National Standards of Canada rests with the:

Standards Council of Canada
45 O'Connor Street
Suite 1200
Ottawa, Ontario
K1P 6N7

How to order CGSB Publications:

by Telephone — (613) 941-8703 or
— 1-800-665-CGSB
(Canada only)

by Fax — (613) 941-8705


by Mail — CGSB Sales Centre
Ottawa, Canada
K1A 1G6

in Person — Suite 1402
222 Queen Street
Ottawa, Ontario

GATES FOR CHAIN LINK FENCE

WITHDRAWN

Prepared by the
Canadian General Standards Board **CGSB**

Approved by the
Standards Council of Canada 

Published February 1996 by the
Canadian General Standards Board
Ottawa, Canada K1A 1G6

©Minister of Supply and Services Canada — 1996

No part of this publication may be reproduced in any form without the prior permission of the publisher.

CANADIAN GENERAL STANDARDS BOARD
COMMITTEE ON WIRE FENCING

(Membership at date of approval)

Araujo, T.	Triodem Technical Services Ltd.
Bastarache, A.	Department of Public Works
Berner, A.	Canadian Fence Industry Association
Bickram, R.	OC Transpo
Cameron, G.	Department of National Defence
Gillies, G.	Ontario Hydro
Grenon, P.	Department of Transport, Quebec
Harris, T.F.	Royal Canadian Mounted Police
Harrison, C.	Tree Island Industries Ltd.
Hillary, R.	Canadian Fence Industry Association
Kelly, T.	Ministry of Transportation, Ontario
Kielbiski, M.	Metro Fence and Fittings Ltd.
Leduc, M.	Canadian Fence Industry Association
Legare, N.	McLellan Supply Alberta Ltd.
Nie, G.	Stelwire
Posner, C.	Correctional Service of Canada
Prost, M.	Prost Cedar Products Ltd.
Rivard, J.-G.	Sidbec-Dosco Inc.
Talarico, F.	Groupe BMF
Vachon, A.	Lundy Fence
Worth, A.W.	Railway Association of Canada
Craig, W. <i>Secretary</i>	Canadian General Standards Board

Acknowledgment is made for the translation of this National Standard of Canada by the Translation Bureau of the Department of the Secretary of State.

CANADIAN GENERAL STANDARDS BOARD

GATES FOR CHAIN LINK FENCE

1. SCOPE

- 1.1 This standard applies to gates used in conjunction with chain link fence used in commercial and industrial applications.
- 1.2 The testing and evaluation of a product against this standard may require the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this standard has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any existing applicable regulatory requirements prior to its use.

2. REFERENCED PUBLICATIONS

- 2.1 The following publications are referenced in this standard:
- 2.1.1 Canadian General Standards Board (CGSB)
CAN/CGSB-138.1 — Fabric for Chain Link Fence
CAN/CGSB-138.2 — Steel Framework for Chain Link Fence
CAN/CGSB-138.3 — Installation of Chain Link Fence.
- 2.2 A reference to a regulation is always to the latest issue. A dated reference is to the issue specified. An undated reference is to the latest issue, unless otherwise specified by the authority applying this standard. The sources are given in the Notes section.

3. TERMINOLOGY

- 3.1 The following definitions apply in this standard:

Fittings (Dispositifs de fixation)

Mechanical connections and devices of various designs, shapes and metals used in joining components into an integral structure.

Gates (Barrière)

A tubular steel rectangular shaped frame faced with chain link fence fabric, hinged on a gate post.

Double Swing Gate (Barrière à deux battants)

A gate consisting of two sections or leaves of equal width.

Single Swing Gate (Barrière à un battant)

A gate consisting of one section or leaf.

Special Sliding Gate (Barrière coulissante de type particulier)

A gate as specified and/or in accordance with applicable drawings.

Special Swing Gate (Barrière à battants de type particulier)

A gate as specified and/or in accordance with applicable drawings.

Gate Opening (Entrée)

The gate opening with size measured from inside to inside dimension between gate posts.

Gate Posts (Poteaux de barrière)

The two fence posts forming a gate opening.

Wire Ties (Attaches métalliques)

Wire used to tie the chain link fence fabric to the gate frame.

4. CLASSIFICATION

4.1 Chain link fence gates shall be supplied in the following types and styles, as specified (par. 9.1):

4.1.1 *Types (of Framework Manufacture)*

Type I — Hot rolled, butt or electric resistance welded

Type II — Cold rolled, electric resistance welded.

4.1.2 *Styles*

Style 1 — Single swing

Style 2 — Double swing

Style 3 — Special swing

Style 4 — Special sliding.

5. GENERAL REQUIREMENTS

5.1 **Materials and Workmanship** — Materials used for the construction of chain link fence gates shall be produced by methods recognized as good commercial practice. The base material of the gate frame shall be tubular members, fully welded at all connections to ensure rigidity of the gate frame. The gates shall be uniform in quality and condition and shall be free from any defects or imperfections that might adversely affect their serviceability and appearance (par. 8.2).

6. DETAILED REQUIREMENTS

6.1 **Framework** — The gate frame members for Styles 1 and 2 shall meet the requirements of Table 1 unless otherwise specified (par. 9.1). Styles 3 and 4 shall be as specified (par. 9.1).

TABLE 1

Specifications for Fence Gate Frame Members (Styles 1 and 2)

Gate Style and Opening Width	Height of Fence	Frame Member Outside Diameter	Frame Member Wall Thickness (Both Types of Framework)	Gate Posts* Outside Diameter
Max. (m)	Max. (m)	Min. (mm)	Min. (mm)	Min. (mm)
Single swing 3.0	2.4	42.9	2.5	88.9
Double swing 6.0	2.4	42.9	2.5	88.9
Single swing 4.5	3.6	48.3	2.5	114.3
Double swing 9.0	3.6	48.3	2.5	114.3
Single swing 7.5	>3.6	48.3	2.5	168.3
Double swing 15.0	>3.6	48.3	2.5	168.3

* Requirements for gate posts are not part of this standard and may exceed those given in CAN/CGSB-138.2 for wide gates. The minimum sizes indicated have general acceptance within the fence industry.

- 6.1.1 For Styles 1, 2 and 3, the gate frame shall be designed for the width built so that the outer member shall not sag in excess of 1% of the gate leaf width. For Style 4, the horizontal sliding gate (unloaded) shall not deflect downward more than 12.7 mm for openings up to 6.4 m and 25.4 mm for openings in excess of 6.4 m.
- 6.1.2 The height of the gate shall match the height of the fence and conform to the requirements of CAN/CGSB-138.2 when applicable.
- 6.1.3 Vertical and horizontal interior bracing members shall be spaced so that no dimension between members shall be greater than 2.4 m. Bracing members shall not be less than 31.8 mm outside diameter and 2.1 mm thickness. A diagonal brace shall be installed on gate leaves 3.6 m and greater in width. Interior bracing members shall be of tubular material and finish the same as the gate frame members. The framework shall be in accordance with CAN/CGSB-138.2 when applicable.
- 6.2 **Fabric** — The fabric shall be installed on the outside of the gate unless a requirement for installation on the inside of the gate is specified (par. 9.1). The fabric shall be fastened to gate frame members and interior bracing members by wire ties, metal bands or clips that are attached at intervals, or by other approved methods, in accordance with CAN/CGSB-138.3. The fabric shall be in accordance with CAN/CGSB-138.1.
- 6.3 **Barbed Wire** — When specified (par. 9.1), a barbed wire top shall be installed on the gate. When barbed wire is specified, the upright end members of the gate frame shall be extended in height to accommodate those strands of barbed wire uniformly spaced 300 mm above the top horizontal member of the gate frame. Barbed wire shall be in accordance with CAN/CGSB-138.2.
- 6.4 **Fittings** — Gates shall be provided with all the necessary fittings to allow an opening of at least 90°. The material used shall be zinc-coated pressed steel, zinc-coated malleable iron, galvanized steel or aluminum alloy, as may be specified (par. 9.1). Fittings shall be in accordance with CAN/CGSB-138.2.
- 6.4.1 **Single Gate Latch** — A latch for a single swing gate shall be capable of retaining the gate in a closed position and shall allow the use of a padlock. Both latch and padlock shall be accessible from either side of the gate.

- 6.4.2 **Double Gate Locking Device** — A locking device for a double swing gate shall be constructed to retain the gate in a closed position. The locking device shall allow the use of a padlock. Both locking device and padlock shall be accessible from either side of the gate.
- 6.4.3 **Foot Bolt** — A double swing gate shall have a foot bolt attached to one of the two sections. The foot bolt, when inserted in the centre stop, shall allow the gate section to remain in the closed position.
- 6.4.4 **Gate Stop** — A gate stop shall be provided for all double swing type gates. The gate stop shall be suitable for setting in concrete.
- 6.4.5 **Gate Keeper** — A gate keeper shall be provided for each leaf more than 1.5 m wide. A gate keeper shall consist of a length of chain or mechanical device to secure the free end of the gate in a fully open position.
- 6.4.6 **Gate Hinges** — Gate hinges shall be of adequate strength for the gate and shall have sufficient bearing surfaces for clamping or bolting in position. Gates 3 m or more in width shall have three hinges per section.

7. PREPARATION FOR DELIVERY

- 7.1 Unless otherwise specified (par. 9.1), normal commercial practice of packaging, labelling, packing and marking shall be acceptable.

8. INSPECTION

- 8.1 **Sampling** — Completed fence gate and fence gate components shall be subject to inspection and testing according to requirements as specified. Sampling for this purpose shall be as specified (par. 9.1).
- 8.2 **Examination for Defects** — Examine fence gates and fence gate components for defects or imperfections affecting serviceability of the finished gate (par. 5.1.3).
- 8.3 **Testing** — Testing of mass per unit area of coating shall be in accordance with CAN/CGSB-138.1 and CAN/CGSB-138.2.

9. NOTES

- 9.1 **Options** — The following options must be specified in the application of this standard:
- Type of framework manufacture (par. 4.1.1)
 - Style of gate (par. 4.1.2)
 - Size of gate frame members, if other than as specified in Table 1 (par. 6.1.1)
 - Size of gate frame members for styles 3 and 4 (par. 6.1.1)
 - Requirement for installation of chain link fabric on inside of gate (par. 6.2)
 - Requirement for barbed wire top (par. 6.3)
 - Material used for fittings (par. 6.4.2)
 - Packaging, labelling, packing and marking details, if other than normal commercial practice (par. 7.1)
 - Sampling requirements (par. 8.1).
- 7.2 **Source of Referenced Publications** — The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Ontario K1A 1G6. Telephone (613) 941-8703 or 1-800-665-CGSB (Canada only). Fax (613) 941-8705.