Canadian General Standards Board Office des normes générales du Canada

ICS 81.040.20

WITHDRAWAL

November 2021

Selected standards in the Glass series

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RETRAIT

Novembre 2021

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CAN/CGSB-12.2-M91 Reaffirmed January 2017 Flat, Clear Sheet Glass

CAN/CGSB-12.3 Reaffirmed January 2017 Flat, clear float glass

CAN/CGSB-12.4 Reaffirmed January 2017 Heat absorbing glass 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 1-800-665-2472, 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, 140, rue O'Connor, Édifice L'Esplanade Laurier, Tour Est, 6e étage, Ottawa (Ontario) Canada K1A 0S5.

CAN/CGSB-12.2-M91 Confirmée Janvier 2017 Verre à vitres plat et clair

CAN/CGSB-12.3 Confirmée Janvier 2017 Verre flotté, plat et clair

CAN/CGSB-12.4 Confirmée Janvier 2017 Verre athermane



Canadian General Standards Board Gouvernement du Canada

Office des normes générales du Canada CAN/CGSB-12.3-M91

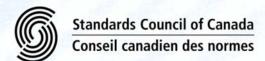
Supersedes CAN/CGSB-12.3-M76

Reaffirmed January 2017

National Standard of Canada

Flat, clear float glass

Canadian General Standards Board







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In this Standard, "shall" states a mandatory requirement, "should" expresses a recommendation and "may" is used to express an option or that which is permissible within the limits of this Standard. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

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NATIONAL STANDARD OF CANADA

CAN/CGSB-12.3-M91

Supersedes CAN/CGSB-12.3-M76

Reaffirmed January 2017

Flat, clear float glass

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE.

ICS 81.040.20

Published April 1991 by the Canadian General Standards Board Ottawa, Canada K1A 1G6

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Acknowledgment is made for the translation of this National Standard of Canada by the Translation Bureau of Public Services and Procurement Canada.

CAN/CGSB-12.3-M91

Supersedes CAN/CGSB-12.3-M76

Reaffirmed January 2017

Preface to the National Standard of Canada

This National Standard of Canada has been reaffirmed by the CGSB Committee on Glass. Editorial changes have been made by the corrections of the following paragraphs:

- 8.4.1 The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Gatineau, Canada K1A 1G6. Telephone 819-956-0425 or 1-800-665-2472. Fax 819-956-5740. Web site www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html.
- 8.4.3 The publication referred to in par. 2.1.3 may be obtained from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A., telephone 610-832-9585, fax 610-832-9555, or from IHS Markit, 200-1331 MacLeod Trail SE, Calgary, Alberta T2G 0K3, telephone 613-237-4250 or 1-800-267-8220, fax 613-237-4251, Web site www.global.ihs.com.



Supersedes CAN/CGSB-12.3-M76 Reaffirmed January 2017

CANADIAN GENERAL STANDARDS BOARD

FLAT, CLEAR FLOAT GLASS

1. SCOPE

- 1.1 This standard applies to flat, clear glass of the float type produced by floating the glass on a bath of molten metal.
- 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. APPLICABLE PUBLICATIONS

- 2.1 The following publications are applicable to this standard:
- 2.1.1 Canadian General Standards Board (CGSB)

CAN/CGSB-12.4-M — Heat Absorbing Glass.

2.1.2 National Research Council of Canada (NRC)

National Building Code of Canada.

2.1.3 ASTM

C 162 — Definition of Terms Relating to Glass and Glass Procedures.

2.2 Reference to the above publications is to the latest issues, unless otherwise specified by the authority applying this standard. The sources for these publications are shown in the Notes section.

3. TERMINOLOGY

3.1 Glass and Types of Glass

Glass — Glass is an inorganic product of fusion that has cooled to a rigid condition without crystallizing. Glass is typically hard and brittle, and has a conchoidal fracture. It may be colourless or tinted, and transparent to opaque. Masses or bodies of glass may be tinted, translucent, or opaque by the presence of dissolved, amorphous or crystalline material. Glass that does not contain such added materials is designated as "clear" or transparent.

Plate glass — Glass from which surface irregularities have been removed by grinding and polishing, so that the surfaces are plane (flat) and parallel.

Float glass — Glass that has virtually plane and parallel surfaces formed by floating in a continuous ribbon of glass on the surface of a bath of molten metal in a controlled atmosphere.

3.2 **Central Area of Sheet** — The central area is considered to form an oval or circle centred on the sheet whose axes or diameters do not exceed 80% of the overall dimension. This allows a fairly large area at the corners that may have imperfections not allowed in the central area.

3.3 Defects in Glass

Bubbles — Gas inclusions in any glass. These inclusions are almost always brilliant in appearance. The term is applied to all such inclusions larger than 1.0 mm in maximum dimension. The term "small bubbles" refers to size between 1.0 and 2.5 mm (see Seeds).

Cords (see Ream) — Heavy strings incorporated in the sheet rather than on the surface, occurring without any regularity of direction and appearing to be of considerable thickness.

Crush — A lightly pitted area resulting in a dull gray appearance over the region.

Digs — Deep, short scratches.

Dirt — A small particle of foreign matter imbedded in the glass surface.

Finish — See Process Surface Defects.

Fire Cracks — Small cracks penetrating the surface of the glass usually in the shape of short hooked crescents.

Gaseous Inclusions — Round or elongated bubbles in the glass.

Heavy Seeds — A condition in which the fine and coarse seeds are very numerous, such as four or more to the square centimetre.

Knot — A transparent area of incompletely assimilated glass having an irregular knotty or tangled appearance.

Lines — Fine cords or strings, usually on the surface of sheet glass. Waves that extend continuously across the sheet, so that the reflection from the surface appears as a line or series of lines extending either the full width or a considerable distance across the sheet.

Open Gaseous Inclusions — Bubbles at the surface of glass that are open, leaving a cavity in the finished surface.

Process Surface Defects — Very fine surface defects remaining on the surfaces of plate glass form the grinding and polishing process, consisting of fine pits and cracks that are denoted as "finish"; when this condition is visible, it is called "short finish." Slight surface defects that originate in the process; these can be small particles of foreign materials on either surface or slight defects in the bottom (float) surface.

Ream (see Cords) — Inclusions within the glass, or layers or strings of glass, that are not homogeneous with the main body of the glass.

Rubs — Abrasion of the glass surfaces producing a frosted appearance. A rub differs from a scratch in having appreciable width,

Sand Holes — Rough spots on the polished surface, produced during coarse grinding, that fine grinding did not remove later owing, to some extent, to coarse grains of grinding sand becoming mixed with finer grades.

Scratches — Any marking or tearing of the surface appearing as though it had been done by either a sharp or rough instrument. Scratches occur on glass in all degrees from various accidental causes. Block reek is a chain-like scratch produced in polishing. A runner-cut is a curved scratch caused by grinding. A sleek is a hairline scratch. A crush or rub is a surface scratch or series of small scratches generally caused by handling.

Seeds — Minute bubbles less than 1.0 mm diameter. Fine seeds are visible only upon close inspection, usually appearing as small specks, and are an inherent defect in the best quality of plate glass. Seeds about 1.0 mm in diameter are usually considered coarse seeds.

Short Finish (see Process Surface Defects) — Insufficient polish or lack of brilliancy; improperly finished surface that has the appearance of being slightly pitted and wavy when the surface is viewed in reflected light. These indentations, which are slight, have a polished rather than a ground surface, but the general effect is a slight dulling of the surface. Poor polish is usually caused by improper grinding.

Skim — Streaks of dense seed with accompanying small bubbles.

Sleek — A fine scratchlike mark having smooth boundaries, usually produced by a foreign particle in the polishing operation.

Stones — Any opaque or partially melted particle of rock, clay or batch ingredient embedded in the glass.

Strings (see Ream) — Wavy, transparent lines appearing as though a thread of glass had been incorporated into the sheet.

Wave — Defects resulting from irregularities of the surfaces of glass making object viewed at varying angles appear wavy or bent.

3.4 Additional definitions of terms relating to glass and glass products may be found in ASTM C 162.

4. CLASSIFICATION

4.1 The float glass shall be supplied in the following qualities, as specified (par. 8.1):

4.1.1 Qualities

Silvering

Mirror Glazing (Selected Glazing)

Glazing.

5. DETAILED REQUIREMENTS

- 5.1 **Dimensions** The clear float glass shall be supplied in the dimensions specified (par. 8.1) within the tolerances for thickness, length and width stated in Table 1.
- 5.2 Squareness The corners of any rectangular piece of float glass shall not deviate from a right angle by an amount greater than that represented by 0.075 or 1.3 mm/m.
- 5.3 **Light Transmittance** The clear float glass shall have nominal percentages of light transmittance (within a tolerance of \pm 5%) according to thickness given in Table 1, when tested in accordance with the procedure stated in CAN/CGSB-12.4-M.

TABLE 1

Nominal Thickness mm	Thickness Tolerance mm	Length and Width Tolerance of Cut Sizes mm	Light Transmittance Nominal %	
2	± 0.5	± 2.0	90	
3	± 0.5	± 2.0	90	
4	± 0.5	± 2.0	90	
5	± 0.5	± 2.0	89	
6	± 0.5	± 2.0	88	
8	± 0.8	± 2.5	87	
10	± 1.0	± 2.5	87	
12	± 1.0	± 3.0	85	
15	± 1.0	± 4.0	85	
19	± 1.0	± 5.0	82	
22	± 1.0	± 6.0	81	
25	± 1.0	± 6.5	79	

- 5.4 Maximum Glass Sizes for Doors and Windows Maximum glass sizes according to thickness for glazing doors or windows shall conform to the requirements of the National Building Code of Canada.
- 5.5 **Defects in Float Glass (par. 8.2)** Defects shall not be greater than those listed in Tables 2 and 3 for glass thicknesses 6 mm or less (par. 6.2 and 3.3). Glass of greater thickness than 6 mm may contain proportionately more and larger defects than 6 mm "Glazing Quality" glass of the same sizes as specified in Table 3. Glass over 6 mm in nominal thickness shall be furnished in "Glazing Quality" only.

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TABLE 2

Defects	Silvering Quality up to 2.5 m ²		Mirror Glazing Quality up to 2.5 m ²		Mirror Glazing Quality over 2.5 m ²	
	Central (d)	Outer (d)	Central (d)	Outer (d)	Central (d)	Outer (d)
Gaseous inclusions (f)	0.5 mm (a,g)	1.0 mm (a,g)	1.0 mm (a,g)	1.0 mm (a,g)	1.0 mm (a,g)	1.5 mm (a,g)
Open gaseous inclusions (f)	None	0.5 mm (b,g)	None	0.5 mm (a,g)	0.5 mm (a,g)	1.0 mm (a,g)
Stones and knots	None	None	None	0.5 mm ^(b)	0.5 mm ^(b)	1.0 mm ^(b)
Scratches and rubs	Faint ^(e) 150 mm	Light ^(e) 150 mm	Faint ^(e) 150 mm	Light ^(e) 150 mm	Light ^(e) 150 mm	Medium ^(e) 150 mm
Crush	None	None	None	None	Light (*)(b) 0.5 mm	Medium (e)(a) 1.0 mm
Digs	None	None	None	None	0.5 mm ^(b)	1.0 mm ^(b)
Process surface defects	Faint (h)	Light ^(h)	Faint ^(h)	Light (h)	Light (b)	Medium ^(h)
Ream, strings and wave	Not visible 30° (°)		Not visible		Not visible 30° (°)	

TABLE 3

Defects	Glazing Quality up to 2.5 m ²		Glazing Quality over 2,5 to 7 m ²		Glazing Quality over 7.0 m ²	
	Central (d)	Outer (d)	Central (d)	Outer (d)	Central (d)	Outer (d)
Gaseous inclusions (f)	1.5 mm (a,g)	2.5 mm (a,g)	3.0 mm (a,g)	5.0 mm (a,g)	6.5 mm (a,g)	6.5 mm (a,g)
Open gaseous inclusions (f)	1.0 mm (a,g)	1.5 mm (a,g)	1.0 mm (a,g)	1.5 mm (a,g)	6.5 mm (a,g)	6.5 mm (a,g)
Stones and knots	0.5 mm (a)	1.0 mm ^(a)	1.5 mm ^(a)	1.5 mm ^(a)	3.0 mm ^(a)	3.0 mm (a)
Scratches and rubs	Medium (c)	Medium (e)	Medium (e)	Heavy (e)	Heavy (c)	Heavy (°)
Crush	Medium ^{(e)(b)} 1.5 mm	Medium (e)(b) 2.5 mm	Medium (e)(b) 3.0 mm	Heavy (e)(a) 5.0 mm	Heavy (e)(b) 6.5 mm	Heavy (e)(a) 6.5 mm
Digs	1.5 mm (b)	2.5 mm ^(b)	3.0 mm (a)	5.0 mm ^(a)	6.5 mm ^(a)	6.5 mm ^(a)
Process surface defects	Medium ^(h)	Medium (h)	Medium (h)	Heavy (h)	Heavy (h)	Heavy (h)
Ream, strings and wave	Not visible 45° (°)		Not visible 90° (©)		Not visible 90° (°)	

Notes to Tables 2 and 3

- (a) Separated by at least 300 mm.
- (b) Separated by at least 600 mm.
- (c) Vision interference angle (par. 6.2.3).
- (d) The central area is considered to form an oval or circle centred on the glass whose axes or diameters do not exceed 80% of the overall dimension. The remaining area is considered the outer area.
- (e) Intensity (Scratches, Rubs and Crush) When looking through glass and perpendicular to it, using daylight without direct sunlight or with background light suitable for observing each type of defect, the defects shall not be detectable when viewed at the following distances (par. 6.2.2), except for heavy intensity.

Intensity	Distance
Faint	200 mm
Light	1000 mm
Medium	3000 mm
Heavy	3000 mm

- (f) Gaseous inclusions may be round or elongated. For elongated inclusions the maximum size specified shall be determined by adding the length and width of the inclusion and dividing by two (L + W)/2.
- (g) For defects of small size or of less intensity, the minimum separation shall be proportionately less. The larger of two defects shall govern the separation. Defects not specifically mentioned shall be compared to the defect they most closely resemble.
- (h) Intensity (Process Surface Defects) When viewed in normal light, the defects are classified as follows: Faint visible only to the trained eye. Light just noticeable. Medium visible as a slight grayish haze. Heavy readily visible as a cloudy surface.

6. INSPECTION

- 6.1 **Sampling** Sampling of the glass for inspection shall be left to the discretion of the inspection authority, unless a specific sampling plan is specified (par. 8.1).
- 6.2 Examination for Defects
- 6.2.1 Gaseous Inclusions, Stones, Knots, Digs, and Process Surface Defects Place a sample in a vertical position approximately 1000 mm from the viewer's position. The viewer shall look through the sample using either daylight without direct sunlight or a background light suitable for observing each type of defect.
- 6.2.2 Scratches, Rubs and Crush Examine as in par. 6.2.1 except that distance of viewer from sample shall be as specified in Table 2 or 3 Note (e) for the applicable quality and size of glass sample.
- 6.2.3 Ream, Strings and Wave Place sample in a vertical position at a distance of approximately 1000 mm from a brick wall or similar background showing essentially straight parallel lines. The viewer shall look through the sample from a distance of approximately 1000 mm using either daylight without direct sunlight, or a background light suitable for observing each type of defect. View the sample at an angle to the surface of not less than the vision interference angle specified in Table 2 or 3 for the applicable glass. Line of vision shall be perpendicular to wall. Slight movement of the head horizontally through an angle of two to three degrees will make waves or lines more perceptible.

7. PREPARATION FOR DELIVERY

- 7.1 **Labelling** When specified (par. 8.1) each individual piece of float glass shall bear a label, affixed by the manufacturer, giving the manufacturer's name or trademark, the quality of glass, nominal thickness, and country of manufacture. Otherwise, this information shall be clearly stated on each package of float glass.
- 7.2 **Packaging, Packing and Marking** Packaging, packing and marking of float glass shall be in accordance with normal commercial practice.

8. NOTES

- 8.1 **Options** The following options must be specified in the application of this standard:
 - a. Quality of float glass (par. 4.1 and 8.3)
 - b. Sheet dimensions (par. 5.1)
 - c. Nominal thickness (Table 1)
 - d. Sampling, if a specific plan is required (par. 6.1)

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- e. Labelling requirements (par. 7.1).
- 8.2 All flat glass contains some imperfections and the principle employed in grading is to exclude all defects that would be objectionable in a given quality. This is difficult to do since there are no sharp lines of demarcation between qualities, and experienced inspectors will differ in judgment as the quality of the glass approaches the limits of the grades.
- 8.3 Silvering, Mirror (Selected) Glazing, and Glazing Qualities Silvering quality is the highest quality float glass sold. It is seldom required for glazing purposes. Mirror glazing (Selected glazing) quality is used where a very high standard of glazing is required and imperfections are discoverable only upon close inspection. This quality is rarely sold for glazing purposes in sizes over 2.5 m². The glazing quality represents the usual selection of float glass supplied when quality is not otherwise definitely specified (par. 8.1).
- 8.4 Sources of Referenced Publications
- 8.4.1 The publication referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Unit, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 956-4026. Fax (819) 956-5644.
- 8.4.2 The publication referred to in par. 2.1.2 may be obtained from the Secretary, Associate Committee on the National Building Code of Canada, National Research Council of Canada, Montreal Road, Ottawa, Ontario K1A 0R6.
- 8.4.3 The publication referred to in par. 2.1.3 may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103, U.S.A. or from the Standards Council of Canada, Standards Sales Branch, 350 Sparks Street, Suite 1200, Ottawa, Ontario K1P 6N7.