



**CSA
Group**

Z600-14

Safety of corded window covering products

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CSA Preface

This is the fourth edition of CSA Z600, *Safety of corded window covering products*, which is an adoption, with Canadian deviations, of the identically titled ANSI/WCMA (American National Standards Institute/Window Covering Manufacturers Association) Standard A100.1-2012. This CSA Group Standard supersedes previous editions published in 2008, 2006, and 1999.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was reviewed by the CSA Technical Committee on Window Covering Products, under the jurisdiction of the CSA Strategic Steering Committee on Community Safety and Well-Being, and has been formally approved by the Technical Committee.

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This Standard is subject to review five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line:

- (a) Standard designation (number);
- (b) relevant clause, table, and/or figure number;
- (c) wording of the proposed change; and
- (d) rationale for the change.

Canadian deviations

1 Scope

1.1

[Replace this clause with the following]

This Standard contains technical requirements and practices including test methods applicable to the design, manufacture/construction, installation, and labelling of corded window covering products. The requirements provided in this Standard are intended to minimize the hazards posed to young children by corded window covering products.

1.2

[Replace this clause with the following]

This Standard applies to all interior corded window covering products, their components, related hardware, and labelling which are manufactured, imported into, advertised, or sold in Canada for consumer use. It also applies to second-hand units that are advertised, distributed, or sold in Canada for consumer use.

Note: Once this Standard has been approved as a National Standard of Canada, this Standard is mandated by Health Canada under the Corded Window Covering Products Regulations of the Canada Consumer Product Safety Act. Products in the scope of this Standard may be subject to other requirements of the Canada Consumer Product Safety Act.

2 General

2.2 Values

[Replace this clause with the following]

The values given in SI units are the units of record for the purposes of this Standard.

Note: Due to the adopted Standard's origin in the United States, the units of record in the adopted standard are primarily non-SI units. Also, some test apparatus components are based on non-SI trade sizes. Where possible, conversions have been made. For other values, see Annex IA, Table A.1, for applicable conversions and revision of presentation to show SI units as the units of record with the values given in parentheses for information and comparison only.

2.3 Tolerances

[Replace this clause with the following]

Where only plus or minus values are given, they may be exceeded or reduced as appropriate at the option of the manufacturer. Linear dimensions expressed without specific tolerances or that are not marked maximum or minimum shall be plus or minus one-half of the least significant unit of measure.

3 Definitions

[Add the following definition]

3.0. A Cord cleat A device around which a cord can be wound and can be attached to a wall or other structure, or that is integral with the product.

4 Product requirements

4.1

[Replace this clause with the following note]

Note: In Canada, exterior components of the window covering product which are 305 mm (12 in) or more below the bottom of the head rail are subject to the Consumer Products Containing Lead (Contact with Mouth) Regulations in the Canada Consumer Product Safety Act.

4.2

[Replace this clause with the following note]

Note: In Canada, safety components or devices that are intended to separate from the product are subject to Section 101 of the Toys Regulations in the Canada Consumer Product Safety Act.

4.3.1

[Add the following sentence]

Refer to C3.

4.3.5

[Replace this clause with the following]

Cord shear devices have not been commonly used; hence reference to cord shear devices in this Standard has been removed. Cord shear devices describe a specific solution. As this is a performance-based Standard, all applicable compliance criteria shall apply.

[Add the following clause]

4.3A

Cord cleats shall be required for window covering products with accessible operating cords as described in 4.3, except for 4.3.7, if when the product is in the fully raised position, the accessible cord exceeds two-thirds the maximum length of the product.

Cord cleats shall

- (a) allow complete cording length to be accumulated on the cord cleat;
- (b) meet the requirements for durability in 6.6.2.3 and UV stability in 6.6.2.2;
- (c) include instructions on how to properly use the cord cleats;
- (d) for cord cleats integral to the product, be within 457 mm (18 in) of the headrail;
- (e) for cord cleats intended to be attached to a wall or other structure, include instructions on how to properly install the cord cleats, including proper placement at a height of 1.6 m (64 in) above the floor; and
- (f) for cord cleats intended to be attached to a wall or other structure, meet the requirements for fasteners described in 5.5.3.

4.4.3

[Replace this clause with the following]

Products with accessible inner cords shall meet the requirements of 6.7 and Appendix D: Hazardous Loop Test Procedure.

[Add the following clause]

4.4.3.1A

For stock blinds that incorporate an inner cord stop device or cord connector on the operating cord(s), the inner cord stop device(s) or cord connector shall be attached by the manufacturer and be adjustable by the consumer. Instructions for adjustment shall be included with each stock blind sold. See 5.3.1.

5 Labeling and operational tag requirements

5.1 Labeling

[Add the following paragraphs]

All labeling and instructions shall be provided in both English and French, with equal prominence given to each language. Variations are permitted in the labeling statements as long as the meaning is equivalent.

If a single long label is used, only one set of pictograms is required. When there is a requirement in 5.1.4 or in 5.2.1 to 5.2.6 for the pictogram of a young child with a cord wrapped around the neck, with a prohibition symbol (circle with a diagonal slash) covering the pictogram, an alternate pictogram of a young child's hand reaching for a blind cord with the prohibition symbol (circle with a diagonal slash) covering the pictogram may be added or substituted.







5.1.1 Generic warning bottom rail label(s)

[Replace this clause with the following]

The signal word (“warning” in English and “mise en garde” in French) shall be in upper-case letters not less than 8 mm (5/16 in) in height and preceded by the ANSI safety symbol (an equilateral triangle surrounding an exclamation mark) of at least the same size. The rest of the warning message text shall be in both upper- and lower-case letters, with the upper-case letters not less than 3 mm (1/8 in). The warning label shall also include a pictogram of a young child with a cord wrapped around the neck, with a prohibition symbol (circle with a diagonal slash) covering the pictogram. The label shall be permanently affixed to all products with accessible cords. The label shall be placed on the bottom rail of the blind and printed in a colour that contrasts the bottom rail colour. For products without bottom rails or products where space constraints do not allow for the narrow label to fit onto the bottom rail, the label shall be placed in an alternative location on the product, to be determined by the manufacturer or importer, that is visible to the consumers.

The generic warning label(s) shall read as follows:

 WARNING		<p>Cords and bead chains can loop around a child's neck and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children's reach. • Move furniture away from cords and bead chains. Children can climb furniture to get to cords.
 MISE EN GARDE		<p>Les cordons et les chaînettes peuvent s'enrouler autour du cou d'un enfant et l'ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les meubles des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons.

5.1.2 Generic warning bottom rail label for narrow product

[Replace this clause with the following]

A warning label of reduced size may be used only on products less than 457 mm (18 in) in width or where space limitations prevent the use of the label(s) described in 5.1.1. The signal word (“warning” in English and “mise en garde” in French) shall be in upper-case letters not less than 4 mm (5/32 in) in height and preceded by the ANSI safety alert symbol (an equilateral triangle surrounding an exclamation mark) of at least the same size. The rest of the warning message text shall be in both upper- and lower-case letters, with the upper-case letters not less than 2 mm (1/16 in). The warning label shall also include a pictogram of a young child’s hand reaching for a blind cord with the prohibition symbol (circle with a diagonal slash) covering the pictogram. The label shall be permanently affixed to all products with accessible cords. The label shall be placed on the bottom rail of the blind and printed in a colour that contrasts the bottom rail colour. For products without bottom rails, the label shall be placed in an alternative location on the product, to be determined by the manufacturer or importer, that is visible to consumers. The generic warning label(s) shall read as shown in 5.1.1.

5.1.3 Labels for packaging of retail products

[Replace the figure with the following]



5.1.3.1

[Replace this clause with the following]

The signal word (“warning” in English and “mise en garde” in French) shall be in all upper-case letters measuring not less than 8 mm (5/16 in) and preceded by an ANSI safety alert symbol (an equilateral triangle surrounding an exclamation mark) of at least the same size. The rest of the warning message text shall be in both upper-case and lower-case letters, with capital letters measuring not less than 3 mm (1/8 in). The generic warning label(s) shall read as shown in 5.1.3.

5.1.4 Labels for merchandising for custom products

5.1.4.1

[Replace this clause with the following]

The signal word (“warning” in English and “mise en garde” in French) shall be in all upper-case letters measuring not less than 8 mm (5/16 in) and preceded by an ANSI safety alert symbol (an equilateral triangle surrounding an exclamation mark) of at least the same size. The rest of the warning message text shall be in both upper-case and lower-case letters, with capital letters measuring not less than 3 mm (1/8 in). The generic warning label(s) shall read as shown in 5.1.3.

5.2 Operational warning tags





5.2.1 Individual tassel cords and cord release device (custom blinds)

[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children’s reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. • Do not tie cords together. Make sure cords do not twist together and create a loop. 	<p>Un jeune enfant peut s’ÉTRANGLER avec la boucle d’un cordon ou d’une chaînette. Il peut aussi enrouler le cordon autour de son cou et s’ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons. • Ne nouez pas les cordons. Faites en sorte que les cordons ne puissent s’entremêler et former une boucle.





5.2.2 Individual tassel cords and cord release device (stock blinds)

[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always ensure that inner cord stop devices are within 76 mm (3 in) of headrail when blind is in the fully lowered position. See adjustment instructions. • Always keep cords and bead chains out of children's reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. • Do not tie cords together. Make sure cords do not twist together and create a loop. 	<p>Un jeune enfant peut s'ÉTRANGLER avec la boucle d'un cordon ou d'une chaînette. Il peut aussi enrouler le cordon autour de son cou et s'ÉTRANGLER.</p> <ul style="list-style-type: none"> • S'assurer que les dispositifs d'arrêt du cordon interne sont à moins de 76 mm (3 po) du rail supérieur quand le store est complètement baissé. Voir les instructions de réglage. • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons. • Ne nouez pas les cordons. Assurez-vous que les cordons ne puissent s'entremêler et former une boucle.





5.2.3 Cord with cord connector

[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops and in the loop(s) above the cord connector. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children's reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. 	<p>Un jeune enfant peut s'ÉTRANGLER avec la boucle du cordon ou de la chaînette ou la boucle formée au-dessus de l'arrêt de cordon. Il peut également enrouler les cordons autour de son cou et s'ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons.





5.2.4 Tension device warning tag (attach to cord or tension device)

[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children's reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. • Attach tension device to wall or floor. This can prevent children from pulling cords and bead chains around their necks. Fasteners provided with the tension device may not be suitable for all mounting surfaces. Use appropriate anchors for the mounting surface conditions. 	<p>Un jeune enfant peut s'ÉTRANGLER avec la boucle du cordon ou d'une chaînette. Il peut aussi enrouler les cordons autour de son cou et s'ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons. • Fixer le dispositif de tension sur le plancher ou sur le mur. Ceci peut empêcher les enfants de tirer sur les cordons et chaînettes et de se les mettre autour du cou. Les attaches fournies avec les dispositifs de tension ne conviendront pas nécessairement à toutes les surfaces de montage. Utiliser les bonnes attaches tout dépendant de la surface de montage.





5.2.5 Cord retraction device

[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children's reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. 	<p>Un jeune enfant peut s'ÉTRANGLER avec la boucle du cordon ou d'une chaînette. Il peut aussi enrouler les cordons autour de son cou et s'ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons.

5.2.6 Cord shroud warning tag (attach to cord shroud)

[Replace the figure with the following]





 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords and bead chains out of children's reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. • Do not remove looped cord from cord shroud. 	<p>Un jeune enfant peut s'ÉTRANGLER avec la boucle d'un cordon ou d'une chaînette. Il peut aussi enrouler le cordon autour de son cou et s'ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons et les chaînettes hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons. • N'enlevez pas le gland qui recouvre le cordon formant une boucle.

5.2.7 Cord shear

[Delete this clause]


5.2.8 Horizontal and pleated blind with cordless operating system


[Replace the figure with the following]

 WARNING	 MISE EN GARDE
	
<p>Inner cords can pull out to form a loop, which can STRANGLE a young child.</p> <ul style="list-style-type: none"> • Children can climb furniture to access inner cords. Move cribs, playpens, and other furniture away from window coverings. 	<p>Les cordons intérieurs peuvent sortir pour former une boucle et ÉTRANGLER un jeune enfant.</p> <ul style="list-style-type: none"> • Un enfant peut grimper sur un meuble pour atteindre les cordons. Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des couvre-fenêtres.

5.2.9 Roman style shade


[Replace the figure with the following]


WARNING



This product contains accessible cords on the back. Accessible cords on the back of Roman Style shades can be pulled out to form a loop, which can STRANGLE a young child.

- Children can climb furniture to access lift cords. Move cribs, playpens, and other furniture away from window coverings.


WARNING


MISE EN GARDE




Ce produit contient des cordons accessibles à l'arrière. Les cordons accessibles à l'arrière du store romain peuvent être tirés pour créer une boucle qui peut ÉTRANGLER les jeunes enfants.

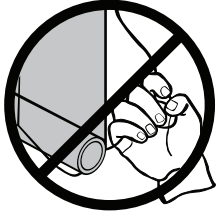
- Un enfant peut grimper sur un meuble pour atteindre les cordons. Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des couvre-fenêtres.


MISE EN GARDE

5.2.10 Roll up style blind


[Replace the figure with the following]



WARNING

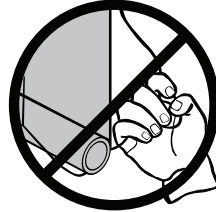


This product contains accessible lift cords. Accessible lift cords on the front and back of Roll-Up Style shades can be pulled out to form a loop, which can STRANGLE a young child.

- Children can climb furniture to access lift cords. Move cribs, playpens, and other furniture away from window coverings.



WARNING


MISE EN GARDE



Ce produit contient des cordons accessibles. Les cordons accessibles à l'avant et à l'arrière des stores à enrouler peuvent être tirés pour créer une boucle qui peut ÉTRANGLER les jeunes enfants.





- Un enfant peut grimper sur un meuble pour atteindre les cordons. Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des couvre-fenêtres.


MISE EN GARDE

[Add the following clause]

5.2.10A Cord cleats

For products that require cord cleats (see 4.3A), the following warning shall be included in the instructions or with the cord cleat package.

 WARNING	 MISE EN GARDE
	
<p>Young children can STRANGLE in cord and bead chain loops. They can also wrap cords around their necks and STRANGLE.</p> <ul style="list-style-type: none"> • Always keep cords out of children’s reach. • Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords. • Always wrap the cords around the cleats in a figure eight, up high, out of reach of children. 	<p>Un jeune enfant peut s’ÉTRANGLER avec la boucle d’un cordon ou d’une chaînette. Il peut aussi enrouler le cordon autour de son cou et s’ÉTRANGLER.</p> <ul style="list-style-type: none"> • Gardez toujours les cordons hors de portée des enfants. • Éloignez les lits et parcs de bébé, ainsi que toute autre pièce de mobilier, des cordons et des chaînettes. Un enfant peut grimper sur un meuble pour atteindre les cordons. • Enroulez toujours les cordons en nœud en huit autour du taquet de cordon, placé haut et hors de portée des enfants.

5.3 Installation, operational and adjustment instructions



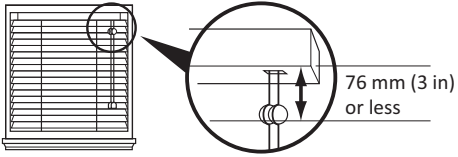
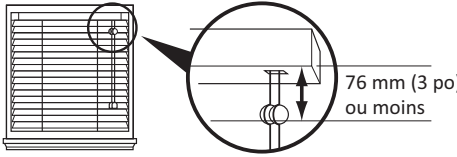
[Replace this clause with the following]

All corded window covering products shall have installation, operational, and adjustment instructions included that are consistent with this Standard.

5.3.1.1 Inner cord stop warning

[Replace this clause with the following]

(In English and French) The signal word (“warning” in English and “mise en garde” in French) shall be in upper-case letters not less than 8 mm (5/16 in) or 1.5 times the height of the warning message text, whichever is larger, and shall be preceded by the ANSI safety alert symbol (an equilateral triangle surrounding an exclamation mark). The rest of the warning message text shall be in both upper- and lower-case letters, with the upper-case letters not less than 5 mm (3/16 in) or the height of most text in the instructions, whichever is larger. A pictogram of the fully lowered product with a circle around the inner cord stops and adjacent headrail and a detail of the circled area showing the cord stops located no more than 76 mm (3 in) below the headrail shall be included in the warning. The warning shall be within a border in a prominent location on the installation instructions.

 WARNING	 MISE EN GARDE
	
<p>Inner cords can pull out to form a loop, which can STRANGLE a young child.</p> <ul style="list-style-type: none"> • Inner cord stop devices can reduce this risk if positioned correctly on the pull cords. • If inner cord stop devices are more than 76 mm (3 in) below the headrail when the blind is fully lowered, move them closer by following the inner cord stop device adjustment instructions. 	<p>Les cordons intérieurs peuvent sortir pour former une boucle et ÉTRANGLER un jeune enfant.</p> <ul style="list-style-type: none"> • Les dispositifs d’arrêt des cordons intérieurs peuvent diminuer ce risque s’ils sont placés correctement sur les cordons. • Si les dispositifs d’arrêt des cordons sont situés à plus de 76 mm (3 po) en dessous du rail supérieur quand le store est complètement baissé, rapprochez-les en suivant les instructions de réglage du dispositif d’arrêt du cordon intérieur.

[Add the following clause]

5.3A Installation instructions

All instructions for this product shall include explanation and diagrams showing methods for keeping the cord out of reach of children.

5.4 Product origins

[Replace this clause with the following]

There shall be a permanent label or marking on each finished corded window covering product that identifies the name, city, state/province, and country of the manufacturer, importer, distributor, fabricator, or seller, and the year of manufacture.

6 Tests and parameters

6.1 Cord release devices

[Replace the last sentence with the following]

If a window covering contains more than one type of operating cord or inner cord assembly, the relevant test of Appendix B: Testing Procedure for Cord Release Device or Appendix E: Test for Roll Up Style Blind Inner Cord Release Device shall be applied separately to each type of cord.

6.3 Cord shear devices

[Delete this clause]

6.5 Tension devices

6.5.2

[Replace this clause with the following]

The tension device in conjunction with the product shall be designed so that when it is not properly installed in accordance with manufacturer's instructions, it will, at least partially, prevent the window covering from complete functioning for light control or privacy.

6.6 Loop cord and bead chain restraining device

6.6.1

[Replace this clause with the following]

The loop cord and bead chain restraining device shall be designed and installed on the window covering product by the manufacturer to limit the operating cord loop length from creating a hazardous loop in accordance with 6.6.2.5.

6.6.2.4 Loop cord and bead chain restraining device durability testing

6.6.2.4.1

[Replace this clause with the following]

Mount the window covering with the attached UV-exposed loop cord and bead chain restraining device to a rigid surface in accordance with the manufacturer's installation instructions.

6.6.2.4.2

[Replace this clause with the following]

Locate the approximate midpoint of the accessible combined loop. Using the test fixture as shown in Appendix D: Hazardous Loop Test Procedure, subject the cord or bead chain loop to a force of 22.2 N (5 lb) for 5 s in both parallel and perpendicular directions to the window covering for 10 cycles each.

6.6.2.4.3

[Replace this clause with the following]

Determine if the loop cord and bead chain restraining device assembly can maintain the integrity of the assembly according to design intent based on the manufacturer's recommended assembly and/or installation instructions. Deformation of the parts is acceptable, but any cracking or dislodged parts shall be considered a failure.

6.7 Accessible inner cord

6.7.1

[Replace this clause with the following]

With the window covering in the fully lowered position, the inner cord stop device properly positioned in accordance with manufacturer's instructions, and the cord lock (if present) not actively engaged, smoothly apply a 4.5 kg (10 lb) weight to the cord at a location 51 mm (2 in) above the lowest cord connection point near the bottom of the window covering in a downwards direction to each inner cord. While applying the weight, the hook and cord shall be able to slide freely on the cord. Remove the weight after 5 s and observe if a free-standing loop has been created.

6.7.2 Maximum free-standing cord loop

[Replace this clause with the following]

The maximum free-standing loop created by the above weight shall be no more than 153 mm (6 in) long [equivalent to a 102 mm (4 in) diameter loop]. See the figure below.

6.7.4

[Replace this clause with the following]

See 4.4.3.1A.

Appendix A

Reference documents

[Add the following]

Government of Canada

Canada Consumer Product Safety Act, S.C. 2010, c. 21, and the Regulations thereto

Consumer Products Containing Lead (Contact with Mouth) Regulations, SOR/2010-273, including amendments

Corded Window Covering Products Regulations, SOR/2009-112, including amendments

Toys Regulations, SOR/2011-17, Section 7, including amendments

All queries on information available from the Healthy Environments and Consumer Safety Branch of Health Canada may be addressed to:

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Appendix B

Test procedure for cord release device and cord shear device

[Replace the title with the following]

Testing procedure for cord release device

[Add the following clause]

B0A Introduction

Appendix B describes the test requirements for cord release devices. The tests shall be performed across all permutations possible based on the number of cords and release device configurations as indicated in this Appendix.

B4 Loop test & acceptance

B4.1

[Replace this clause with the following]

Slide the loop over the test fixture. Twist the device 360 degrees (one full revolution). Hold the twisted device and begin to draw the force gauge vertically just until the slack is removed from between the cord release device and the foam surrounding the trade size 53 (2 in) PVC pipe shown in Figure B1. Release the hold on the twisted device and continue to draw the force gauge vertically up at a speed between 2.5 mm and 25 mm per second (0.1 and 1.0 in/second). The device being tested shall release within 10 s from its initial contact with the lower portion of the test fixture. Record force at separation. Repeat for 50 devices.

Figure B1 — Test fixture construction

[Replace the descriptive label with the following]

CORD RELEASE DEVICE STANDARD TEST FIXTURE DETAILS

Figure B2 — Test fixture loading

[Replace the descriptive label with the following]

CORD RELEASE DEVICE STANDARD TEST FIXTURE DETAILS

Appendix D

Hazardous loop test procedure

[Add the following note]

Note: See 4.4.3, 6.4.1, 6.4.2, 6.6.2.4.2, C2.1.1.1, C2.1.1.2, C2.1.2.1, C2.1.2.2, C4.1, C4.1.1, and C4.1.2.

D.1 Window covering mounting and preparation

D1.1.5.1

[Replace this clause with the following]

If the sample contains a top-down, bottom-up operation feature, Procedure D2 shall be performed with the bottom rail fully lowered and the middle rail up against the headrail (window covering fully covering the window). The cord lock, if utilized in the product design, shall not be engaged for the bottom rail control.

Appendix E

Test for roll up style blind inner cord release device

[Add the following note]

Note: See 4.4.5.

Appendix H

Testing summary, product illustrations

[Add the following note]

Note: *This Annex is an informative (non-mandatory) part of this Standard.*

[In the twelfth row of the table, replace the entry in the second column with the following]

Test procedure for Cord Release Device

- Single loop B3.1
- Multiple loop B3.2

Figure H6 Drapery Rod

[Replace the figure title with the following]

Figure H6 Drapery (Traverse) Rod

Appendix I

Label for packaging of retail products (Spanish and French language)

[Replace with the following]

See 5.1.

[Add the following Appendix]

Appendix IA

Values in SI units

Table IA.1
Values in SI units
(See 2.2.)

Clause	Value in ANSI/WCMA A100.1	Value in SI units
2.3	1/32 in (1 mm)	1 mm (1/32 in)
4.1	12 in (305 mm)	305 mm (12 in)
4.3A d)	—	457 mm (18 in)
4.3A e)	—	1.6 m (64 in)
4.3.9	3 in (76 mm)	76 mm (3 in)
5.1.1	5/16 in (8 mm)	8 mm (5/16 in)
5.1.1	1/8 in (3 mm)	3 mm (1/8 in)
5.1.1	3/32 in (2 mm)	2 mm (3/32 in)
5.1.2	18 in (457 mm)	457 mm (18 in)
5.1.2	5/32 in (4 mm)	4 mm (5/32 in)
5.1.2	1/16 in (2 mm)	2 mm (1/16 in)
5.1.3.1	5/16 in (8 mm)	8 mm (5/16 in)
5.1.4.1	1/8 in (3 mm)	3 mm (1/8 in)
5.3.1.1	5/16 in (8 mm)	8 mm (5/16 in)
5.3.1.1	3/16 in (5 mm)	5 mm (3/16 in)
5.3.1.1	3 in (76 mm)	76 mm (3 in)
5.2	5/16 in (8 mm)	8 mm (5/16 in)
5.2	1/8 in (3 mm)	3 mm (1/8 in)
6.2.1	3 in (76 mm)	76 mm (3 in)
6.5.3	20 lb (89 N)	89 N (20 lb)
6.5.4.1	1.0–1.5 ft/sec (31–46 cm/sec)	31–46 cm/sec (1.0–1.5 ft/sec)
6.5.4.3	15 in-lb (1.7 J)	1.7 J (15 in-lb)
6.5.4.4.1	5 lb (22.2 N)	22.2 N (5 lb)
6.6.2.1	1.0–1.5 ft/sec (31–46 cm/sec)	31–46 cm/sec (1.0–1.5 ft/sec)
6.6.2.3	15 in-lb (1.7 J)	1.7 J (15 in-lb)

(Continued)

Table IA.1 (Continued)

Clause	Value in ANSI/WCMA A100.1	Value in SI units
6.6.2.4.2	5 lb (22.2 N)	22.2 N (5 lb)
6.6.2.5.3	5 lb +/- 0.25 lb (22.2 N +/- 1.1 N)	22.2 N +/- 1.1 N (5 lb +/- 0.25 lb)
6.6.2.5.3	25 in +/- 0.25 in (63.5 cm +/- 0.6 cm)	63.5 cm +/- 0.6 cm (25 in +/- 0.25 in)
6.6.2.5.4	10 lb (44.5 N)	44.5 N (10 lb)
6.7.1	10 lb (4.5 kg)	4.5 kg (10 lb)
6.7.1	6 in (152 mm)	152 mm (6 in)
6.7.1	4 in (102 mm)	102 mm (4 in)
6.7.1	2 in (51 mm)	51 mm (2 in)
6.7.2	6 in (153 mm)	153 mm (6 in)
6.7.2	4 in (102 mm)	102 mm (4 in)
6.7.2 Figure	6 in	153 mm (6 in)
6.7.2 Figure	4 in	10.2 cm (4 in)
6.7.2 Figure	12 in	30.5 cm (12 in)
6.7.3.1	1 in (25 mm)	25 mm (1 in)
6.7.3.3	25 lb (111 N)	111 N (25 lb)
6.7.5.2	4 in (102 mm)	102 mm (4 in)
6.8.1	3.5 in	6.5 cm (3.5 in)
B1	10 lb (44.5 N)	44.5 N (10 lb)
B2	5.75–6.25 in (146 mm–159 mm)	146 mm–159 mm (5.75–6.25 in)
B3.1	3.5 ft (107 cm)	107 cm (3.5 ft)
B4.1	0.1–1.0 in/second (2.5 mm–25 mm per second)	2.5 mm–25 mm per second (0.1–1.0 in/second)
B4.2	3.0 lb (1.63 kg, 13.3 N)	1.63 kg, 13.3 N (3.0 lb)
B4.2	5.0 lb (2.27 kg, 22.2 N)	2.27 kg, 22.2 N (5.0 lb)
Figure B1	4 in (102 mm)	102 mm (4 in)
Figure B2	0.1–1.0 in/second (2.5 mm–25 mm per second)	2.5 mm–25 mm per second (0.1–1.0 in/second)
Figure B2	6 in +/- 1/4 in (152 mm)	152 mm (6 in +/- 1/4 in)
Appendix C	12 in (31 cm)	31 cm (12 in)
C2.11	12 in (31 cm)	31 cm (12 in)
C2.1.1.1	2 in (51 mm)	51 mm (2 in)
C2.1.2	12 in (31 cm)	31 cm (12 in)

(Continued)

Table IA.1 (Continued)

Clause	Value in ANSI/WCMA A100.1	Value in SI units
C2.1.1.2	2 in (51 mm)	51 mm (2 in)
C2.1.2.1	4 in (102 mm)	102 mm (4 in)
C2.1.2.2	4 in (102 mm)	102 mm (4 in)
Figure C1	4.000 in	102 mm (4.000 in)
Figure C1	6.000 in	153 mm (6.000 in)
Figure C1	2.500 in	64 mm (2.500 in)
Figure C1	1-13/16 in	46 mm (1-13/16 in)
Figure C1	1.000 in	25 mm (1.000 in)
Figure C1	5/8 in	16 mm (5/8 in)
Figure C1	2.000 in	51 mm (2.000 in)
Figure C1	0.625 in	16 mm (0.625 in)
Figure C1	1.813 in	46 mm (1.813 in)
Figure C1	2.000 in	51 mm (2.000 in)
Figure C1	4.000 in	102 mm (4.000 in)
Figure C1	2 in	51 mm (2 in)
Figure C2	12 in	31 cm (12 in)
Figure C2	1/4 in	6.4 mm (1/4 in)
D1.1.3	12 in (31 cm)	31 cm (12 in)
D2.3.1	5 lb (22.2 N)	22.2 N (5 lb)
D2.4	5 lb +/- 0.25 lb (22.2 N +/- 1.1 N)	22.2 N +/- 1.1 N (5 lb +/- 0.25 lb)
D2.4	25 in +/- 0.25 in (63.5 cm +/- 0.6 cm)	63.5 cm +/- 0.6 cm (25 in +/- 0.25 in)
D2.5	10 lb (44.5 N)	44.5 N (10 lb)
Figure D1	5.83 in (148 mm)	148 mm (5.83 in)
Figure D1	4.33 in (110 mm)	110 mm (4.33 in)
Figure D1	5.9 in (150 mm)	150 mm (5.9 in)
Figure D1	16.6 in +/- 0.3 in (422 mm +/- 8 mm)	422 mm +/- 8 mm (16.6 in +/- 0.3 in)
Figure D1	0.264 in (6.7 mm)	6.7 mm (0.264 in)
Figure D1	3/8 in (9.5 mm)	9.5 mm (3/8 in)
Figure D3	36 in (914 mm)	914 mm (36 in)
Figure D3	96 in (2438 mm)	2438 mm (96 in)
Figure D3	10 in (254 mm)	254 mm (10 in)

(Continued)

Table IA.1 (Continued)

Clause	Value in ANSI/WCMA A100.1	Value in SI units
Figure D3	30 in (762 mm)	762 mm (30 in)
Figure D3	1-1/2 in (38 mm)	38 mm (1-1/2 in)
Figure D3	3/16 in (4.8 mm)	4.8 mm (3/16 in)
Figure D3	18 in (457 mm)	457 mm (18 in)
Figure D3	11/32 in (8.7 mm)	8.7 mm (11/32 in)
Figure D3	2 in (51 mm)	51 mm (2 in)
Figure D3	4 in (102 mm)	102 mm (4 in)
Figure D3	1/4 in (6 mm)	6 mm (1/4 in)
Figure D3	12 in (305 mm)	305 mm (12 in)
Figure D4	8.25 in (210 mm)	210 mm (8.25 in)
Figure D4	18 in (457 mm)	457 mm (18 in)
Figure D4	0.75 in (19 mm)	19 mm (0.75 in)
Figure D4	1.5 in (38 mm)	38 mm (1.5 in)
Figure D4	0.34 in (8.7 mm)	8.7 mm (0.34 in)
Figure D4	1-1/2 in (38 mm)	38 mm (1-1/2 in)
Figure D4	3/16 in (4.8 mm)	4.8 mm (3/16 in)
Figure D4	11/32 in (8.7 mm)	8.7 mm (11/32 in)
Figure D4	3.75 in (95 mm)	95 mm (3.75 in)
Figure D4	2.0 in (51 mm)	51 mm (2.0 in)
Figure D4	0.19 in (4.8 mm)	4.8 mm (0.19 in)
Figure D4	1.0 in (25 mm)	25 mm (1.0 in)
Figure D4	2.5 in (64 mm)	64 mm (2.5 in)
Figure D4	12.0 in (305 mm)	305 mm (12.0 in)
Figure D4	4.0 in (102 mm)	102 mm (4.0 in)
Figure D4	0.25 in (6 mm)	6 mm (0.25 in)
Figure D4	1/4 in (6 mm)	6 mm (1/4 in)
Figure D5	3/8 in (9.5 mm)	9.5 mm (3/8 in)
Figure D5	0.157 in (4.0 mm)	4.0 mm (0.157 in)
Figure D5	5/16 in (7.9 mm)	7.9 mm (5/16 in)
Figure D5	3/16 in (4.8 mm)	4.8 mm (3/16 in)
Figure D5	2 in (51 mm)	51 mm (2 in)

(Continued)

Table IA.1 (Continued)

Figure D5	30 in (762 mm)	762 mm (30 in)
Figure D5	2-1/2 in (64 mm)	64 mm (2-1/2 in)
Figure D5	1/4 in (6.4 mm)	6.4 mm (1/4 in)
Figure D5	6 in (152 mm)	152 mm (6 in)
Figure D5	11/32 in (8.7 mm)	8.7 mm (11/32 in)
Figure D6	0.8 in (19 mm)	19 mm (0.8 in)
Figure D6	2.0 in (51 mm)	51 mm (2.0 in)
Figure D6	1.5 in (38 mm)	38 mm (1.5 in)
Figure D6	2.8 in (70 mm)	70 mm (2.8 in)
Figure D6	0.1 in (2 mm)	2 mm (0.1 in)
Figure D6	4.3 in (108 mm)	108 mm (4.3 in)
Figure D6	2.1 in (54 mm)	54 mm (2.1 in)
Figure D6	0.26 in (6.7 mm)	6.7 mm (0.26 in)
Figure D6	0.4 in (10 mm)	10 mm (0.4 in)
Figure D6	6.0 in (152 mm)	152 mm (6.0 in)
Figure D6	0.25 in (6 mm)	6 mm (0.25 in)
Figure D6	1.3 in (32 mm)	32 mm (1.3 in)
Figure D6	2.5 in (64 mm)	64 mm (2.5 in)
Figure D6	0.2 in (5 mm)	5 mm (0.2 in)
Figure D6	0.34 in (8.7 mm)	8.7 mm (0.34 in)
Figure D6	0.19 in (4.8 mm)	4.8 mm (0.19 in)
Figure D6	2-1/2 in (64 mm)	64 mm (2-1/2 in)
Figure D6	1/4 in (6.4 mm)	6.4 mm (1/4 in)
Figure D6	6 in (152 mm)	152 mm (6 in)
Figure D6	3/16 in (4.8 mm)	4.8 mm (3/16 in)
Figure D6	11/32 in (8.7 mm)	8.7 mm (11/32 in)
E1.3	10 lb (44.5 N)	44.5 N (10 lb)
E1.3	0.05 lbf (0.2 N)	0.2 N (0.05 lbf)
E1.2	10 ft (3 m)	3 m (10 ft)
E2.3.2	0.1–1.0 in/second (2.5 mm–25 mm per second)	2.5 mm–25 mm per second (0.1–1.0 in/second)
E2.3.8	3.0 lbf (13.3 N)	13.3 N (3.0 lbf)
E2.3.8	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)

(Continued)

Table IA.1 (Concluded)

E2.3.8	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)
E2.3.8	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)
E3.4.5	0.1–1.0 in/second (2.5 mm–25 mm per second)	2.5 mm–25 mm per second (0.1–1.0 in/second)
E3.4.10	3.0 lbf (13.3 N)	13.3 N (3.0 lbf)
E3.4.10	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)
E3.4.10	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)
E3.4.10	5.0 lbf (22.2 N)	22.2 N (5.0 lbf)
Figure E1	1/16 in (1.5 mm)	1.5 mm (1/16 in)
Figure E1	2 in (50 mm)	50 mm (2 in)
Figure E1	1 in (25 mm)	25 mm (1 in)
Figure E1	3/8 in (1.0 cm)	1.0 cm (3/8 in)
Figure E1	3/8 in (9.5 mm)	9.5 mm (3/8 in)
Figure E1	0.05 lbf (20 gf)	20 gf (0.05 lbf)
Figure E2	2 in (50 mm)	50 mm (2 in)
Appendix F	40 in (102 cm)	102 cm (40 in)
G1.1	4 in (102 mm)	102 mm (4 in)
G1.1	6 in (152 mm)	152 mm (6 in)
G2.1	25 kgf (115 N)	115 N (25 kgf)
G3.1	6 in (152 mm)	152 mm (6 in)
G3.1	5/8 in (16 mm)	16 mm (5/8 in)
G3.3	1 in (25 mm)	25 mm (1 in)
G3.4	1-13/16 in (46 mm)	46 mm (1-13/16 in)
G3.5	2.5 in (64 mm)	64 mm (2.5 in)
G4.1	1/4 in (6 mm)	6 mm (1/4 in)
G4.1	0.33 in (8 mm)	8 mm (0.33 in)
G5.1	5 lb (22.2 N)	22.2 N (5 lb)
G5.2	10 lb (44.5 N)	44.5 N (10 lb)
G5.3	16.6 in (42.2 cm)	42.2 cm (16.6 in)

CSA Technical Committee on Window Covering Products

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AMERICAN NATIONAL STANDARD
FOR SAFETY OF
CORDED WINDOW COVERING PRODUCTS

SPONSOR



WINDOW COVERING MANUFACTURERS ASSOCIATION, INC.



American National Standards Institute
Approved November 28, 2012

AMERICAN NATIONAL STANDARD

Some of the information contained in this document has been processed in accordance with ANSI's requirements for a Provisional American National Standard. It replaces Provisional Standard WCMA 100.1-2010 which is being withdrawn to coincide with the publication of this revision. The same or similar document will undergo the full standards development process set forth in the WCMA's accredited procedures.

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FOREWORD

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1 SCOPE

1.1 The members of the Window Covering Manufacturers Association, Inc. (WCMA), recognizing that unfortunate accidents, including strangulation, have occurred among young children using certain products having flexible loops made or imported by members of the industry, have prepared this Standard in cooperation with the U.S. Consumer Product Safety Commission (CPSC).

This Standard is not intended to inhibit, but rather to encourage the development of devices and methods that shall further improve the safety of products manufactured by industry members. Manufacturers and other users of this Standard are requested to submit suggestions for improvements to WCMA.

Members of WCMA, in recognition of continuing improvements to be made, shall sponsor appropriate revisions to this Standard on a regular basis.

1.2 This Standard applies to all interior corded window covering products. The items covered include the products listed in 1.3 when used in all reasonably foreseeable environments where young children are present.

1.3 Window covering products covered include, but are not limited to, cellular shades, horizontal blinds, pleated shades, roll up style blinds, roller shades, Roman style shades, traverse rods, and vertical blinds. These products can be manufactured and distributed as either stock or custom products. (See Section 3 for definitions of these terms.)

2 GENERAL

2.1 **Objective** The objective of this Standard is to provide requirements for covered products in 1.2 and 1.3 that reduce the possibility of injury, including strangulation, to young children from the bead chain, cord, or any type of flexible loop.

2.2 **Values** Required values given in this Standard are given in U.S. units. The SI (metric) equivalents are approximate.

2.3 **Tolerances** Where only plus or minus values are given, they are permitted to be exceeded or reduced as appropriate at the option of the manufacturers. Linear dimensions expressed without specific tolerances or are not marked maximum or minimum shall be plus or minus 1/32 in (1 mm).

2.4 **Reference Documents** All documents referenced are included Appendix A: Reference Documents.

2.5 **Products** Product types are described and / or illustrated in Appendix H: Testing Summary, Product Illustrations.

3 DEFINITIONS

3.01 **Accessible Cords** Any cord on the product that can be contacted by the test probe following the test procedures in Appendix C: Test Procedure for Accessible Cords.

3.02 **Band** A thin strip of material which is wider than it is thick and is utilized in the function or operation of a window covering product, such as in lifting, lowering, or traversing. Bands that do not meet the requirements for a wide band in Section 6.8 shall be treated as a cord.

3.03 **Bead Chain** A series of small spheres on a cord and / or connected to one another and used to operate a window covering product.