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NATIONAL BUILDING CODE OF CANADA 1985

FIFTH REVISIONS

Issued by the

Associate Committee on the National Building Code National Research Council of Canada Ottawa

January 1988

Revisions to the National Building Code of Canada 1985

The following revisions to the National Building Code of Canada 1985 have been approved by the Associate Committee on the National Building Code for immediate implementation. Those changes which alter the intent of the document have been made available for prior public review.

In accordance with the ACNBC Policies and Procedures, the documents referenced in Table 2.7.3.A. of the 1985 NBC are updated annually. The First and Fourth Revisions dated January 1986 and January 1987, respectively, included updating of the referenced documents to 30 June 1986. The revisions contained herein include additional updates to 30 June 1987.

Page	Reference	Revision
21	2.7.3.1.	Change the last line to read "30 June 1987".
22-32	Table 2.7.3.A.	Revise entries in Columns 2 and 3 where applicable as follows:

Column 1	Column 2		Column 3
Issuing Agency	Document Number		Title of Document
Agency	Existing Number	Revised Number (1)	(as revised) (1)
ASTM	A525-86 (2)	A525-87	
ASTM	C444M-1980	C444M-87	
ASTM	C700-78a(1983)	C700-86	
CGA	CAN1-B149.2-M80	CAN/CGA-B149.2-M86	Propane Installation Code
CGSB	7-GP-1M-1980	CAN/CGSB-7.1-M86	Cold Formed Steel Fram-
CGSB	CAN2-19.13-M82	CAN/CGSB-19.13-M87	ing Components
CGSB	34-GP-22M-1976	CAN/CGSB-34.22-M87	
CGSB	37-GP-18Ma-1984	37-GP-18Ma-1985	
CGSB	51-GP-20M-1978	CAN/CGSB-51.20-M87	Thermal Insulation, Polystyrene, Boards and Pipe Covering
CGSB	51-GP-25M-1978	CAN/CGSB-51.25-M87	
CSA	A82.1-M1977	CAN/CSA-A82.1-M87	Burned Clay Brick (Solid Masonry Units Made from Clay or Shale)
CSA	B72-1960	CAN/CSA-B72-M87	Installation Code for Lightning Protection Systems
CSA	B182.1-M1983	B182.1-M87	

Column 1	Colu	ımn 2	Column 3
Issuing	Document Number		Title of Document
Agency	Existing Number	Revised Number (1)	(as revised) (1)
CSA	B365-M1984	CAN/CSA-B365-M87	
CSA	Z32.4-M1978	CAN/CSA-Z32.4-M86	
NFPA	80-1983	80-1986	
ULC	S126-M1982	CAN/ULC-S126-M86	
ULC	CAN4-S524-M82	CAN/ULC-S524-M86	
ULC	S531-1978	CAN/ULC-S531-M87	
ULC	CAN4-S537-82	CAN/ULC-S537-M86	Standard for the Verification of Fire Alarm Systems
ULC	S610-M1983	CAN/ULC-S610-M87	
ULC	CAN4-S629-M84 (3)	CAN/ULC-S629-M87	

⁽¹⁾ Revised document numbers and titles also apply in the appropriate code references listed in Column 4.

⁽²⁾ Previously updated in Fourth Revisions dated January 1987.

⁽³⁾ Previously updated in First Revisions dated January 1986.

Page	Reference	Revision			7
23	Table 2.7.3.A.	Delete reference seventh entry f			
25	Table 2.7.3.A.	Delete third, fo CGSB 63-GP-2 63-GP-5M-197	2M-1976, 63-	GP-3M-19	
27	Table 2.7.3.A.	Delete ninth er	ntry for CSA	A274-M19	80.
27	Table 2.7.3.A.	Add new entry	following the	e eleventh o	entry.
	CSA CAI	N3-A440-M84	Windows	9.7.2.1.	
	Column 1	2	_3	4	
29	Table 2.7.3.A.	Delete second 0132.1-M197	-	A	
29	Table 2.7.3.A.	Delete ninth e CAN3-0188.2 entry as follow	-M78 and sub	ostitute nev	v

CSA	CAN3-0437.0-M85	Waferboard and Strandboard	9.23.14.2. 9.23.14.6. 9.23.15.1. 9.23.15.3. 9.24.2.1. 9.24.2.2. 9.28.11.1.
			9.28.11.1. 9.30.12.1. 9.31.2.3.

Page	Reference	Revision 5
94	3.2.4.8.	Add new Sentences (3) and (4) and renumber existing Sentences (3) and (4) as (5) and (6).
		(3) The requirements in Sentence (1) are waived in a building that has an aggregate area for all storeys of not more than 2 000 m ² and is not more than 3 storeys in building height.
		(4) When an annunciator is not installed as part of a required fire alarm system in conformance with Sentence (1), a visual and audible trouble signal device shall be provided inside the main entrance of the <i>building</i> .
126	3.4.2.1.(6)	Add new Clause (b) and renumber existing Clauses (b) and (c) as (c) and (d).
		(b) they are not intended for an occupant load of more than 60,
229	9.7.2.1.	Delete and substitute:
		9.7.2.1. Windows shall conform at least to the requirements for window ratings A1, B1 and C1 in CAN3-A440, "Windows". (See Appendix A.)
305	9.23.14.2.	Delete and substitute:
		9.23.14.2. Plywood for subfloors shall be exterior type conforming to CSA 0121, "Douglas Fir Plywood", CSA 0151, "Canadian Softwood Plywood" or CSA 0153, "Poplar Plywood". Waferboard and Strandboard shall conform to CAN3-0437.0, "Waferboard and Strandboard".

Page	Reference	Revision 6
305	9.23.14.	Add new Article 9.23.14.6. and renumber existing Articles 9.23.14.6. to 9.23.14.9. as 9.23.14.7. to 9.23.14.10.
		9.23.14.6. Waferboard and strandboard subflooring conforming to 0-1 and 0-2 grades in CAN3-0437.0 shall be installed with the direction of face orientation at right angles to the joists and with joints parallel to floor joists staggered.
306	9.23.15.1.	Delete and substitute:
		9.23.15.1. Plywood used for roof sheathing shall be exterior type plywood conforming to CSA 0121, "Douglas Fir Plywood", CSA 0151, "Canadian Softwood Plywood" or CSA 0153, "Poplar Plywood". Waferboard and strandboard for roof sheathing shall conform to CAN3-0437.0, "Waferboard and Strandboard".
306	9.23.15.	Add new Article 9.23.15.3. and renumber existing Articles 9.23.15.3. to 9.23.15.7. as 9.23.15.4. to 9.23.15.8.
		9.23.15.3. Waferboard and strandboard roof sheathing conforming to 0-1 and 0-2 grades in CAN3-0437.0 shall be installed with the direction of face orientation at right angles to the roof framing members.
309	9.24.2.1.	Delete and substitute:
		9.24.2.1. Floor and roof decking shall consist of not less than 38 mm lumber laid on the flat or on edge, or exterior type plywood conforming to CSA 0121, "Douglas Fir Plywood", CSA 0151, "Canadian Softwood Plywood", CSA 0153, "Poplar Plywood" or waferboard and strandboard conforming to CAN3-0437.0, "Waferboard and Strandboard".

Page	Reference	Revision
309	9.24.2.	Add new Article 9.24.2.2, and renumber existing Article 9.24.2.2. as 9.24.2.3.
		9.24.2.2. Waferboard and strandboard decking conforming to 0-1 and 0-2 grades in CAN3-0437.0 shall be installed with the direction of face orientation at right angles to the framing members.
311	9.25.1.3.	Delete and substitute:
		9.25.1.3. Steel studs and runners shall conform to CAN/CGSB-7.1M, "Cold Formed Steel Framing Components".
312	9.25.1.	Add new Article 9.25.1.4. and renumber existing Articles 9.25.1.4. and 9.25.1.5. as 9.25.1.5. and 9.25.1.6.
		9.25.1.4. Metal thickness specified in this Section shall be the minimum base steel thickness exclusive of coatings.
312	Table 9.25.2.A.	Delete Column 1 and substitute:

Minimum Stud Size, mm
30 x 40
30 x 63
30 x 91
Column 1

9.25.2.2. Delete and substitute: 312

> 9.25.2.2. Except as required in Article 9.25.2.4., steel studs in non-loadbearing interior walls shall have a metal thickness of not less than 0.46 mm.

Page	Reference	Revision	8
312	9.25.2.3.	Delete and substitute	3.
		non-loadbearing wa	or interior and exterior lls shall have a thickness of ckness of the corresponding not less than 30 mm flanges.
312	Table 9.25.2.B.	Delete Columns 1 a	nd 2 and substitute:
		Minimum Stud Size, mm	Minimum Metal Thickness, mm

30 x 91

30 x 91

30 x 91

30 x 91

Column 1

329 9 28 11	1 Delete and substitute	۸.

9.28.11.1. Waferboard and strandboard siding shall conform to CAN3-0437.0, "Waferboard and Strandboard".

0.53

0.69

0.85

1.0

2

338 9.30.12.1. Delete and substitute:

9.30.12.1. Particleboard finish shall conform to CAN3-0188.1, "Interior Mat-Formed Wood Particleboard". Waferboard and strandboard finish shall conform to CAN3-0437.0, "Waferboard and Strandboard".

Page	Reference	Revision 9
340	9.31.2.3.	Delete and substitute:
		9.31.2.3. Panel-type underlay shall be not less than 6 mm thick and shall conform to one of the following: CSA 0115, "Hardwood and Decorative Plywood", CSA 0121, "Douglas Fir Plywood", CSA 0151, "Canadian Softwood Plywood", CSA 0153, "Poplar Plywood", CAN3-0188.1, "Interior Mat-Formed Wood Particleboard", CAN3-0437.0, "Waferboard and Strandboard", or CGSB 11-GP-3M, "Hardboard".
422	Appendix A	Add new Note A-9.7.2.1.:
		A-9.7.2.1. Windows. The CSA Standard CAN3-A440, "Windows", includes a window classification system that rates the assembly according to air leakage, water leakage and wind load resistance. The ratings, shown below, are marked on the window and indicate the level of performance that can be expected. Units can then be selected which are most appropriate for design conditions.

Appendix A (Cont'd)

Air Leakage

A1 - intended for use primarily in low-rise residential (i.e. buildings of 3 storeys or less and having an area not exceeding 600 m²), industrial, and light commercial use.

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A2 - intended for use primarily in mediumto high-rise residential, institutional, and commercial use.

A3 - intended for use in high-performance institutional and commercial applications.

Water Leakage

- B1 moderate climatic conditions
- B2 severe climatic conditions
- B3 extreme climatic conditions

Wind Resistance

- C1 lowest wind load resistance
- C2 medium wind load resistance
- C3 highest wind load resistance

Article 9.7.2.1. has specified the lowest grades since the NBC is a collection of minimum requirements only. Designers or builders may wish to consider windows with higher ratings depending on the height of buildings, climatic conditions and occupancy classification.