

Associate Committee on the
NATIONAL BUILDING CODE

National Research Council
Canada

NATIONAL BUILDING CODE OF CANADA
1965 EDITION

PART 6—BUILDING SERVICES

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Part 6, **Building Services**, in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the Part.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

REVISIONS

National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 8)

Part 6

Page 31

Table 6.3.6B—In heading, first line, substitute the word "Minimum" for "Maximum".

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PART 5—MATERIALS

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Part 5—**Materials**, in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the Part.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

REVISIONS

National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 5)

Part 5

Page 5

Table 5.4.3A—Delete and substitute with the following:

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PART 9—HOUSING

The Associate Committee on the National Building Code recommends that the revisions set out below be inserted in Part 9, **Housing**, in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying revisions warrant distribution pending the complete revision of the Part.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7, Ontario.

REVISIONS

National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 5)

Page 4

9.3.2(4)—Delete and substitute:

“Where a door swings towards a stair the full area of its swing shall be over a landing. A space equivalent to the dimension for a landing shall be provided at the top and bottom of each flight of stairs and where a doorway occurs in a stairway.”

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Page 5

9.3.4—Add new Subsection:

Noise Control

“Constructions separating dwelling units in the same building and between a dwelling unit, and any space common to two or more dwelling units shall have a resistance to airborne sound transmission in accordance with good practice.**”

Page 26

4.6.21.1(4)—Revise the second line to read:

. . . sealing inaccessible surfaces, the longitudinal spacing, in line, between intermediate . . .

Page 32

4.6.24.3(2)

4.6.24.3(3)—Delete reference to American Standards B18.2-1960 and substitute respectively:

USASI Standard B18.2.1-1965, Square and Hexagon Bolts and Screws, including Hexagon Cap Screws and Lag Screws;
B18.2.2-1965, Square and Hexagon Nuts.

Page 34

Table 4.6.24B—Delete and substitute:

TABLE 4.6.24B
Forming Part of Sentence 4.6.24.9(1)
BOLT TENSION

Bolt Size Inches	Minimum Bolt Tension* in Kips	
	A325 Bolts	A490 Bolts
$\frac{1}{2}$	12	15
$\frac{5}{8}$	19	24
$\frac{3}{4}$	28	35
$\frac{7}{8}$	39	49
1	51	64
$1\frac{1}{8}$	56	80
$1\frac{1}{4}$	71	102
$1\frac{3}{8}$	85	121
$1\frac{1}{2}$	103	148
$1\frac{3}{4}$	—	200
2	—	262

*Approximately equal to 70 per cent of specified minimum tensile strength given in ASTM Standards A325 and A490.

Page 35

Table 4.6.24C—Revise the second line of the asterisked (*) footnote following Table 4.6.24.C to read:

"Tolerance on rotation: 30 degrees over or under."

Page 44

4.6.29.3—Add the following:

"(24)"

Part 4, Section 4.2

- (4) (5) (6) (7) (8) CSA O80-1966 — Wood Preservation

Part 4, Section 4.3

- (3) CSA O121-1961
(6) (11) (12) (13) (27) CSA O80-1966 — Wood Preservation

Part 4, Section 4.4

- (6) CSA A82.1-1965 — Burned Clay Brick
(9) **Insert word "cancelled" at the end of line.**

Page 9

Part 4, Section 4.6

- (1) CSA G40.8-60
(3) ASTM A36-66
(4) ASTM A242-66
(5) ASTM A440-66
(6) ASTM A441-66
(8) **Delete ASTM A195-59 and substitute ASTM A502-65 — Steel Structural Rivets**

Add the following:

- (24) D CGSB-1-GP-166-63 — Primer-Basic Lead Silico-Chromate; Oil Alkyd Type

Part 6

- (3) NFPA 90B-1965 — Installation of Residence Type Warm Air Heating and Airconditioning
(9) **Change the name of the Specification to: "Burned Clay Brick."**
(12) **Change the name of the Specification to: "Burned Clay Brick."**
(15) **Change the name of the Specification to: "Burned Clay Brick."**
(20) **Update to 1963**
(23) **Update to 1966**
(24) **Update to 1966**

Page 11

Part 7—Delete and substitute:

- (2) CSA B45.4-1962 — Stainless Steel Plumbing Fixtures
(22) **Update to 1966**

Pages 11 and 12—Delete and substitute:

- (40) CSA B125-1967 — Plumbing Fittings

Page 12—Delete and substitute:

- (5) **Cancelled**
(43) CGSB 34-GP-22-1966 — Pipe: Asbestos-Cement, Drain
(44) CSA B182.1-1967 — Plastic Drain and Sewer Pipe and Pipe Fittings for Use Underground
(45) CSA B181.1-1967 — Acrylonitrile-Butadiene-Styrene Drain, Waste and Vent (ABS-DWV) Pipe and Pipe Fittings
(46) CSA B181.2-1967 — Poly (Vinyl Chloride) Drain, Waste and Vent Pipe and Pipe Fittings

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Page 7

Part 4

Section 4.4—Add the following:

- "(25)C CSA A23.2.13-1960 — Compressive Strength of Moulded Concrete Cylinders."

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PART 4—DESIGN

SECTION 4.6—STEEL CONSTRUCTION

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Section 4.6, **Steel Construction**, in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the Section.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

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Page 7

In 4.6.7.1(2), Page 43, in 4.6.28.8(1) and (2)

Update the specifications listed therein as follows:

CSA Standard G40.1-1959 to 1966

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Update the specifications as follows:

Page 7

4.6.7.5—ASTM A325-65 to A325-66

Page 32

4.6.24.3(1)—ASTM A325-65 to A325-66

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Page 14

4.6.16.3(3)—Add the sub-paragraph (d) as follows:

“(d) Average shear stress on nominal area of pins.....0.40F_y”

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Page 16

4.6.16.3(9)—Add the following:

“(For nomenclature see Clause 16.3.4.1)”

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Page 16

4.6.16.4 SHEAR—Revise the stress value of A490 bolts, friction-type connection, from “22.5 ksi” to “20 ksi”; and replace “A195 hot-driven rivets” by “A502, Grade 2, hot-driven rivets.”

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SUPPLEMENT NO. 6—FARM BUILDING STANDARDS

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Supplement No. 6, **Farm Building Standards, 1965.**

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the supplement.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

REVISIONS

National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 5)

Page 4

1.1.2.2(2)(b)—In second line, “the allowable stresses tension” should read: “the allowable units stresses in tension”

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Page 9

1.1.4.2(4)(a)—In first line, “in low farm buildings” should read: “in low human occupancy farm buildings”

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PART 4—DESIGN

SECTION 4.4—PLAIN, REINFORCED AND GROUTED MASONRY

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Section 4.4, **Plain, Reinforced and Grouted Masonry**, in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the Section.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

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National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 5)

Page 20

4.4.7.5(1)—In the first line, delete “Section 4.5” and insert “Sentences 4.4.7.3 and 4.4.7.4”.

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**SUPPLEMENT NO. 1—CLIMATIC INFORMATION FOR
 BUILDING DESIGN IN CANADA**

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in Supplement No. 1, **Climatic Information for Building Design in Canada, 1965.**

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of the Supplement.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7.

REVISIONS

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Supplement No. 1

Page 33

After Kitimat add the words "Plant Site" and also add the following:

DESIGN DATA FOR SELECTED LOCATIONS IN CANADA

	Design Temperature				Degree Days Below 65°F	15 Min Rain in.	One Day Rain in.	Ann. Tot. Pcpn. in.	Gnd. Snow Load psf	Wind		Earth-quake Factor
	Winter		July 2½%							Gust mph	Press psf	
	2½%	1%	Dry	Wet								
	°F	°F	°F	°F								
British Columbia Kitimat (Town Site)	+2	-1	76	62	7600	0.5	6.0	88	90	82	18	4

Page 16

4.6.16.4 TENSION—Revise as follows:

TENSION (F_u). All stresses based on nominal area of fastener.

A307 bolts.....	14 ksi
A325 bolts.....	40 ksi
A490 bolts.....	54 ksi
G40.2 hot-driven rivets.....	20 ksi
A502, Grade 2, hot-driven rivets.....	27 ksi

Page 17

4.6.17.1(2)—Delete and substitute:

“(c) For compression members subjected to transverse loading between their supports, f'_b shall be determined by rational analysis. It is permissible to determine the value of f'_b from the bending moment diagram resulting from the superposition of the bending moments due to transverse loading with those for any other coexistent end moments; however, for compression members in frames subject to joint translation (sidesway) f'_b shall not be taken less than $0.85 f_b$.”

Page 18

4.6.17.3—In the last line revise the reference to “4.6.16.3”, to “4.6.16.4”.

Page 18

Table 4.6.17A—Delete and substitute:

TABLE 4.6.17A
Forming Part of Article 4.6.17.3
VALUES OF α AND β

Fastener	α	β
A307 bolts	20	12.5
A325 bolts, friction-type connection	60	15
A325 bolts, bearing-type connection	50	30
A490 bolts, friction-type connection	80	20
A490 bolts, bearing-type connection	67.5	40.5
G40.2 steel rivets	28	17.5
A502, Grade 2, steel rivets	38	23.5

Page 20

Table 4.6.18A—For item A490 bolts in Table, in the column headed 100,000, the “Shear, friction-type” value of 22.5 should be changed to “20” and the “Tension” value should be changed from 60 to 54.

“In Item G40.2 and A195 hot-driven rivets, substitute A502 for A195.”

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THE APPENDIX

The Associate Committee on the National Building Code recommends that the Revisions set out below be inserted in **THE APPENDIX** in all copies of the National Building Code of Canada, 1965.

The Associate Committee considers the accompanying Revisions warrant distribution pending the complete revision of **THE APPENDIX**.

For extra copies write to: The Secretary, Associate Committee on the National Building Code, National Research Council, Ottawa 7, Canada.

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National Building Code of Canada (1965) Revision Slip, December 1967 (Changes Series 5)

Update the following Standards and Specifications:

Page 4

Part 3

CSA O80 to 1966

Section 4.5

CSA G30.6 to 1967

Section 4.6

CSA G40.1 to 1966

USASI B18.2-1960 to USASI B18.2.1-1965 "Square and Hexagon Bolts and Screws, including Hexagon Cap Screws and Lag Screws; B18.2.2-1965 — Square and Hexagon Nuts."

Part 6

CSA C22.1 to 1966

Part 8

CSA C22.1 to 1966

Part 9

CSA C22.1 to 1966

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Page 6

Part 4

Section 4.2—Update the following Specifications:

"(5) ASTM A366-62T to 1967"

Page 49

4.6.32.9(6)—Delete and substitute:

"4.6.32.9 (6) High-strength bolts shall be proportioned on the basis of not more than the load values in Table 4.6.24.B, to resist the tension produced by the ultimate loading. High-strength bolts required to resist shear may be used in joints having painted contact surfaces when these joints are of such size that the slip required to produce bearing would not interfere with the formation, at ultimate loading, of the plastic hinges assumed in the design."

Page 49

4.6.32.10(2)—Revise the asterisked (*) footnote to 4.6.32.10(2) to read:

**In order to preclude the possibility of premature lateral buckling, recent investigations indicate that L_{cr} should not exceed $375 r_y/\sqrt{F_y}$.*

Page 51

4.6.33.8—Delete and substitute:

4.6.33.8 TENSION CHORD. The tension chord shall be continuous and shall be designed as an axially loaded tension member. The governing radius of gyration of the tension chord or any component thereof shall be not less than 1/240 of the corresponding unsupported length. The unsupported length of chord in the plane of the joist shall be taken as the panel length centre-to-centre of panel points. The unsupported length of chord perpendicular to the plane of the joist shall be taken as the distance between bridging lines connected to the tension chord. Anchored ends of joists may be assumed to be equivalent to bridging lines.

Page 55

4.6.33.21(1)—In margin, change caption to read:

Decking and
cast-in-place
slabs

Page 55

4.6.33.21(5)

4.6.33.21(6)

4.6.33.21(7)—Renumber as Clauses 4.6.33.21(4), 4.6.33.21(5), and 4.6.33.21(6), respectively.

Page 55

4.6.33.21(4)—Renumber Clause 4.6.33.21(4) as 4.6.33.21(7) and revise to read:

4.6.33.21(7) Cast-in-place slabs shall have a minimum thickness of two inches. Forms for cast-in-place slabs shall not cause lateral displacement of the top chords of joists during installation of the forms or the placing of the concrete. Non-removable forms shall be positively attached to top chords by means of clips, ties, wedges, fasteners or other suitable means at intervals not exceeding 36 inches; however, there shall be at least two attachments in the width of each form at each joist. Forms and their method of attachment shall be such that the cast-in-place slab, after hardening, is capable of furnishing lateral support to the joist chords.

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PART 7—PLUMBING SERVICES

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7.3.10.1(3)—Add the following at the end of the sentence:

“ . . . and may be used adjacent to grade when adequately jointed and supported, using only the Medium and Heavy Duty grades specified in the specification noted in sentence (4) for this application.”

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7.3.10.8—Change (3)(a) to read:

(a) “be used only in detached single-family dwellings, semi-detached dwellings and row housing.”

Add a new requirement as follows:

(c) “be restricted to buildings not over two storeys in height and having stack and/or vent heights not exceeding 36 ft.”

TABLE 5.4.3A
MINIMUM LUMBER GRADES FOR SPECIFIC END USES

1	2	3	4	5
	Species			
<p>Uses</p> <p>Floor and Ceiling Joists and Rafters Trusses and Truss Rafters</p> <p>Stud Wall Framing (Load Bearing Members) Stud Wall Framing (Non Load Bearing Members) Plank Frame Construction (Load Bearing Members) Plank Frame Construction (Non Load Bearing Members) Posts and Beams Roof Sheathing Subflooring Wall Sheathing*</p>	<p>Douglas Fir W. Hemlock W. Red Cedar Spruce — Sitka, W. White and Engelmann Yellow Cedar Lodgepole Pine Ponderosa Pine Western White Pine Larch</p>	<p>Eastern Spruce Balsam Fir Jack Pine Eastern Hemlock Eastern Cedar Tamarack Poplar</p>	<p>White Pine Red Pine</p>	<p>Ponderosa Pine W. White Pine Lodgepole Pine Larch White Fir Engelmann Spruce Western White Spruce</p>
	EPGC		CLA	
	<p>Softwood framing lumber may be used for floor and ceiling joists and rafters in those sizes, species and grades for which allowable spans are listed in the Span Tables in Appendix B.</p> <p>Softwood framing lumber may be used for trusses and truss rafters in those sizes, species and grades for which allowable unit stresses are listed in "Span Tables for joists and rafters for houses", published by the Forest Products Research Branch of the Dept. of Forestry.</p>			
	Standard (No. 1)	Standard (No. 2)	No. 1 Dimension	No. 1 Dimension
	Utility, West Coast studs and No. 2 studs	Utility (No. 3)	No. 4 Common	No. 4 studs
	Utility	Standard (No. 2)	No. 3 Common	Utility, West Coast studs and No. 2 studs
	Economy	Economy (No. 4)	No. 5 Common	Utility
	Standard	Standard (No. 2)	No. 1 Dimension	Economy
	Standard	Standard (No. 2)	No. 3 Common	Standard
	Utility	Utility (No. 3)	No. 4 Common	No. 3 Common
			No. 5 Common	No. 3 Common
			No. 1 Dimension	No. 4 Common
			No. 3 Common	
			No. 4 Common	
			No. 5 Common	

*Where wall sheathing is not required as a nailing base, one lower grade than those specified is permitted.

GRADING RULES

FOR THE SPECIES LISTED IN COLUMN 2, the following grading rules apply:

British Columbia Mfrs. Assoc. (BCLMA) Rules No. 59, August 1959 revised to August 1966.

West Coast Lumber Inspection Bureau (WCLIB) Standard Grading Rules No. 15 March 1956 revised to October 1966.

Western Wood Products Assoc. (WWPA) Standard Grading Rules, January 1965 revised to October 1966.

FOR THE SPECIES LISTED IN COLUMN 3, the following grading rules apply:

Eastern Spruce Grading Committee (ESGC) Standard Grading Rules, as published by the Canadian Lumbermen's Assoc., the Quebec Lumber Manufacturers' Assoc. and the Maritime Lumber Bureau, revised September 1964.

FOR THE SPECIES LISTED IN COLUMN 4, the following grading rules apply:

Eastern Pine Grading Committee (EPGC) Rules for White and Red Pine as published by the Quebec Lumber Manufacturers' Assoc. and Maritime Lumber Bureau, effective August 1962.

Canadian Lumbermen's Assoc. (CLA) Rules for White and Red Pine, revised edition August 1967.

FOR THE SPECIES LISTED IN COLUMN 5, the following grading rules apply:

Western Wood Products Assoc. (WWPA) Standard Grading Rules, January 1965, revised to October 1966.