



## 2024 BC Building Code – LIST OF REVISIONS – Part 4

Code Reference	TYPE OF CHANGE			
	Editorial	Relocated	New	Comments
<b>Division B - Part 1</b>				
<b>Section 1.4</b>				
1.4.1.2	✓	✓	✓	Revision to the definition for <i>Post Disaster</i> Buildings. Definition expanded based on AHJ's feedback.
<b>Division B – Part 4</b>				
<b>Section 4.1.2</b>				
<b>Specified Loads and Effects</b>				
4.1.2.1 Loads and Effects	✓		✓	Revision to Definitions for Importance Category for Low Normal and High Importance Buildings. Post Disaster now a defined term and moved to 1.4.1.2
4.1.2.2 Loads Not Listed	✓		✓	Appendix note added for clause on "Loads Not Listed" to draw users' attention to other types of loads not covered under part 4
<b>Section 4.1.4</b>				
<b>Dead Loads</b>				
4.1.4.1 Dead Loads	✓		✓	Revisions and expansions of loads related to partition dead loads in buildings
<b>Section 4.1.5</b>				
<b>Live Loads Due to Use and Occupancy</b>				
4.1.5.3 Full and Partial Loading	✓		✓	First Storey of Offices (4.8 kPa) expanded to basements and mezzanines with direct access to exterior at grade
4.1.5.5 Loads on Exterior Areas	✓		✓	Clarification provided to roof deck parking companion loads where snow may or may not be removed and depending on whether roof deck is used for regular parking or storage parking
4.1.5.14 Loads on Guards and Handrails	✓			Clarification provided to ensure that guard loads do not occur simultaneously with the handrail loads or vice versa.
<b>Section 4.1.6</b>				
<b>Loads Due to Snow and Rain</b>				
4.1.6.1.1 Neighbouring Buildings	✓			Where impacts to a neighbouring building may occur due to drifting snow, the user is referenced to the structural commentary note A.4.1.6.1 (1) which refers the designer to the "Structural Commentaries" for additional guidance



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4.1.6.2.(2).(c) Low Roofs			✓	The user is provided guidance on what to do when the roof is close to ground
4.1.6.4.(4) Scuppers	✓			Clarification is provided to where the level of waters is to be measured in reference to the scupper.
4.1.6.5 Multi Level Roofs			✓	A new provision was provided in note 4 to 4.1.6.5.-A reducing the snow loads where the step between multi level roofs is > 5m
4.1.6.8 Snow Drift at Corners	✓			Where the snow drift at a re-entrant corner may be different on each side, clarification was provided to use the greater of the two drifts where they overlap
4.1.6.16 Roofs with Solar Panels			✓	Solar Panels are commonly added to roofs. They can have a major impact to snow distribution on the roof. This section was added to introduce the snow load requirements for solar panels and their impact to snow on roofs with solar panels. Commentary notes also added in A-6.1.6.16
<b>Section 4.1.7 Wind Loads</b>				
4.1.7.2.(3)(b) Classifications of Buildings	✓		✓	Clause added to clarify that buildings need not be classified as dynamically sensitive if they do not contain human occupancy.
4.1.7.5 Parapets			✓	New clauses (7 to 9) provisions added to address the impacts to the main structural from wind loads on parapets, or guards that are close to the roof structure as well as for the parapet or guard design.
4.1.7.6 Parapets and Guards			✓	New clause 4.1.7.6.(10 and 11) added refereeing the user back to clause 4.1.5.5 (5 to 9) for determining wind loads on parapets and guards.
4.1.7.7 Parapets			✓	Clause 4.7.7.7.(2) added noting internal pressure coefficient for parapet cladding $C_{pi} = -0.7$ to $+0.7$
4.1.7.9 Full and Partial Wind Loading	✓			Revisions to how partial wind loads causing torsion are to be calculated for buildings in clause 4.1.7.9 and commentary note A4.1.7.9
4.1.7.12 Wind Loads on Canopies			✓	A completely new section was added to address wind loads on both the bottom surface and top surface of canopies attached to a building with $H < 20m$ . Further guidance also provided on combining the loads from both surfaces. Commentary notes also added in A-4.1.7.12
4.1.7.13 Wind Loads on Solar Panels			✓	A completely new section was added to address the wind loads on roofs where solar panels are



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				attached. Commentary notes also added in A-4.1.7.13
<b>Section 4.1.8</b>				
<b>Earthquake Load and Effects</b>				
4.1.8.1	✓			Minor edits to accommodate new Article 23, and new designation X.
4.1.8.2	✓		✓	Addition of five new items regarding X designation and SC. Revisions to seven items, to be consistent with other Articles.
4.1.8.3				No changes.
4.1.8.4			✓	Significant revisions to all Sentences in this Article – revised from 9 Sentences to 7 Sentences. Two new tables added, Table regarding Site class revised, removal of 8 Tables regarding F factors.
4.1.8.5			✓	New Sentence (2) added regarding Seismic Category (SC).
4.1.8.6	✓		✓	New irregularity Type 10 added in Table 4.1.8.6. Revised text regarding irregularity Type 1 in Table 4.1.8.6. Minor edits to accommodate SC.
4.1.8.7	✓			Minor edits to accommodate SC.
4.1.8.8	✓			Minor edits to accommodate SC.
4.1.8.9	✓		✓	Revision in Sentence (1). Revision to Table 4.1.8.9 to accommodate SC. New SFRS (5 of them) added to Table 4.1.8.9. Revision to Concrete Conventional Construction moment-resisting frame height limits in Table 4.1.8.9.
4.1.8.10	✓		✓	Signification revisions, including three new Sentences. Sentence (2) revisions, including one new clause. New Sentence (3) regarding High Importance Category buildings. New Sentence (6) regarding timber construction. Sentence (9) significantly revised (was Sentence (7)). New Sentence (10) regarding Type 10 irregularity. Minor edits to accommodate SC.



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4.1.8.11	✓		✓	Table 4.1.8.11 replaced with new table. Minor edits to accommodate SC and X designation.
4.1.8.12	✓			Minor edit to accommodate X designation.
4.1.8.13				No changes.
4.1.8.14				No changes.
4.1.8.15	✓			Minor edits to accommodate SC.
4.1.8.16	✓			Minor edits to accommodate SC and X designation.
4.1.8.17				No changes.
4.1.8.18	✓		✓	Significant revisions. Sentence (1) equation revised to remove F factor. Table 4.1.8.18 description of Category 1 and 2 items revised. Sentence (7) significantly revised regarding connections, including two additional clauses. Sentence (16) completely revised. Sentences (17) and (18) added regarding allowance of friction connections for ballasted array of interconnected solar panels. Minor edits to accommodate SC. Note: Only two items where BCBC is revised relative to NBC. Note 3 below Table 4.1.8.18 revised, and Sentence (13) revised.
4.1.8.19	✓			Minor edits to accommodate X designation.
4.1.8.20				No changes.
4.1.8.21				No changes.
4.1.8.22				No changes.
4.1.8.23			✓	Brand new Article with 7 Sentences.
<b>Section 4.2 Foundations</b>				



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4.2.3.2 Preservation Treatment of Wood	✓			This clause was updated to reference the most recent CSA standard for preservative treatment of wood foundations.
<b>Section 4.4</b>				
<b>Design Requirements for Special Structures</b>				
4.4.1 Air, Cable- and Frame-Supported Membrane Structures	✓			This clause was updated to also include cable membrane structures and frame supported membrane structures
4.4.3 Storage Racks			✓	This clause refers readers to seismic section 4.1.8 of the code noting that that storage racks are to be designed with these provisions. The PCF rationale was that racks can be significant and can be a significant risk to the building and occupants and should be designed according to the building code.
<b>Appendix C</b>				
<b>Climactic Loads</b>				
Appendix C Climactic Loads	✓			Climactic Loads for wind have been updated based on more recent data. This resulted mostly in minor changes to most of the 1/10 year hourly wind pressures few minor changes to 1/50 year.
<b>Division C</b>				
<b>Part 2 – Administrative Provisions</b>				
2.2.4.3 Information Required on Structural Drawings			✓	Clause 2.2.4.3 (f) added to note that the importance category of the building be noted on the structural drawings.