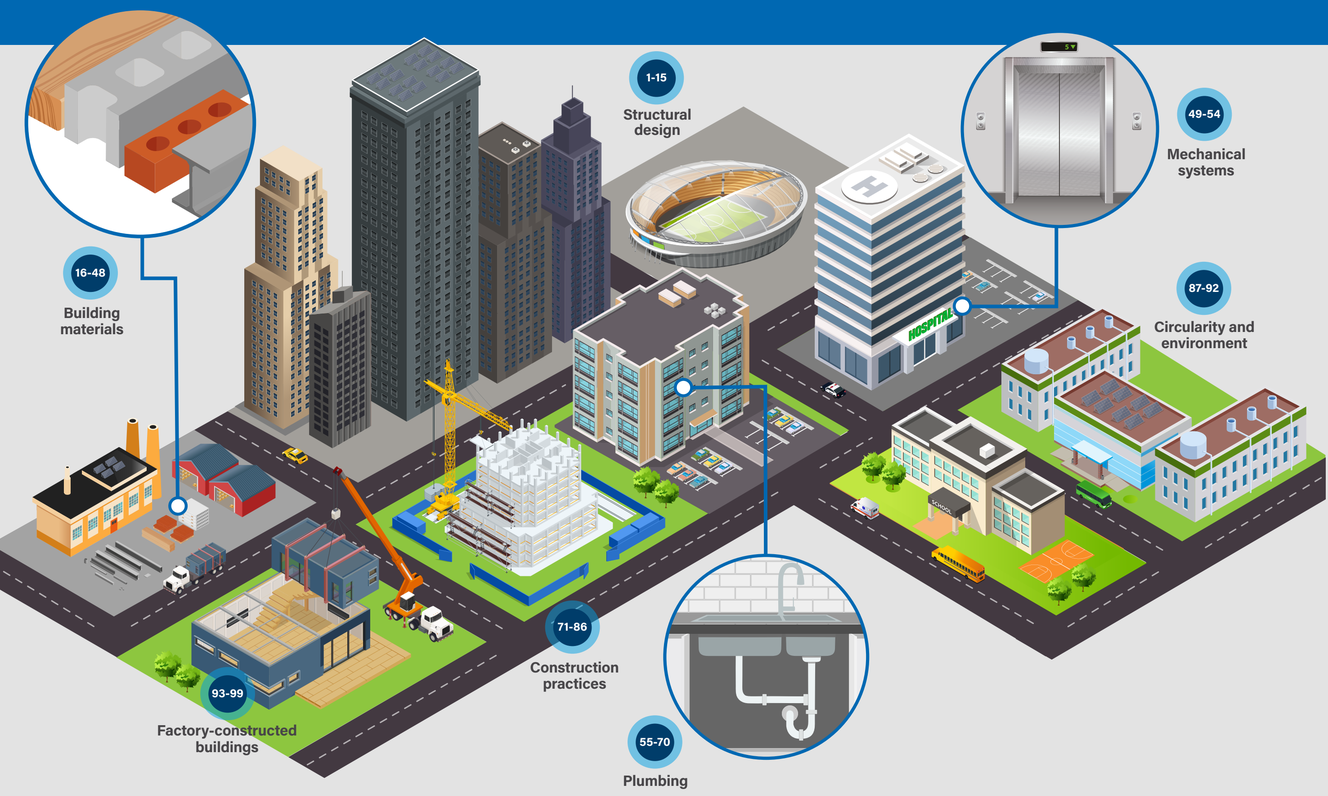
CSA Group Standards for Canadian Built Environment

For more than a century, CSA Group has supported the evolution of Canada's built environment. CSA Group's standards-based solutions underpin safe and reliable construction of residential, commercial, institutional, and industrial buildings , as well as mechanical systems.

Guided by technical experts from across Canada, more than 250 standards – many referenced in legislation and construction specifications – help safeguard human life and position Canada as a leader in building construction.



CSA Group standards and research

Structural design

1 - **CSA A23.3,** *Design of concrete structures*
2 - **CSA O86,** *Engineering design in wood*
3 - **CSA S16,** *Design of steel structures*
4 - **CSA S136,** *North American specification for the design of cold-formed steel structural members*
5 - **CSA S304,** *Design of masonry structures*
6 - **CSA S367,** *Air-, cable-, and frame-supported membrane structures*
7 - **CSA S157/CSA S157.1,** *Strength design in aluminum/Commentary on CSA S157, Strength design in aluminum*
8 - **CSA S413,** *Parking structures*
9 - **CSA S806,** *Design and construction of building structures with fibre-reinforced polymers*
10 - **CSA S807,** *Specification for fibre-reinforced polymers*
11 - **CSA S808,** *Specification for fibre-reinforced polymer (FRP) materials for externally reinforcing structures*
12 - **CSA S832,** *Seismic risk reduction of operational and functional components (OFCs) of buildings*
13 - **CSA S850,** *Design and assessment of buildings subjected to blast loads*
14 - **CSA S852,** *Blast-resistant window anchor systems*
15 - **CSA W59,** *Welded steel construction*

Building materials

Roofing

16 - **CSA-A123** *suite of 10+ standards for built up roofing, shingles, and performance testing related to roofing*
17 - **CAN/CSA-A220** *Series, Concrete roof tiles*

Windows and railings

18 - **AAMA/WDMA/CSA 101/I.S.2/A440-11,** *NAFS – North American fenestration standard/Specification for windows, doors, and skylights*
19 - **CSA A440S1,** *Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS – North American Fenestration Standard/ Specification for windows, doors, and skylights*
20 - **CAN/CSA-A440-00/A440.1,** *Windows/User Selection Guide to CSA Standard CAN/CSA-A440-00, Windows*
21 - **CSA A440.2/CSA A440.3,** *Fenestration energy performance/User guide to CSA A440.2:19, Fenestration energy performance*
22 - **CSA A440.4,** *Window, door, and skylight installation*
23 - **CSA A440.6,** *High exposure fenestration installation*
24 - **CSA A460,** *Bird-friendly building design*
25 - **CSA A500,** *Building guards*

Cement and concrete

26 - **CSA A23.1/CSA A23.2,** *Concrete materials and methods of concrete construction/Test methods and standard practices for concrete*
27 - **CSA A23.4,** *Precast concrete – Materials and construction*
28 - **CSA A283,** *Qualification code for concrete testing laboratories*
29 - **CSA A864,** *Guide to the evaluation and management of concrete structures affected by alkali-aggregate reaction*
30 - **CSA A3000,** *Cementitious materials compendium*
31 - **CSA G30.18,** *Carbon steel bars for concrete reinforcement*

Steel

32 - **CSA G40.20/G40.21,** *General requirements for rolled or welded structural quality steel/Structural quality steel*

Masonry

33 - **CSA A82,** *Fired masonry brick made from clay or shale*
34 - **CSA A165** *Series, CSA Standards on concrete masonry units*
35 - **CSA A370,** *Connectors for masonry*
36 - **CAN/CSA-A179,** *Mortar and grout for unit masonry*

Wood

37 - **CSA O112.9,** *Evaluation of adhesives for structural wood products (exterior exposure)*
38 - **CSA O112.10,** *Evaluation of adhesives for structural wood products (limited moisture exposure)*
39 - **CSA O121,** *Douglas fir plywood*
40 - **CAN/CSA-O122,** *Structural glued-laminated timber*
41 - **CSA O141,** *Softwood lumber*
42 - **CSA O151,** *Canadian softwood plywood*
43 - **CSA O153,** *Poplar plywood*
44 - **CSA O160,** *Formaldehyde emissions standard for composite wood products*
45 - **CSA O177,** *Qualification code for manufacturers of structural glued-laminated timber*
46 - **CSA O322,** *Procedure for certification of pressure-treated wood materials for use in permanent wood foundations*
47 - **CSA O325,** *Construction sheathing*
48 - **CSA S347,** *Method of test for evaluation of truss plates used in lumber joints*

Mechanical systems

Elevating devices

49 - **ASME A17.1/CSA B44,** *Safety code for elevators and escalators*
50 - **CSA B44.1/ASME A17.5,** *Elevator and escalator electrical equipment*
51 - **ASME A17.7/CSA B44.7,** *Performance-based safety code for elevators and escalators*
52 - **CSA B355,** *Platform lifts and stair lifts for barrier-free access*

Boilers, pressure equipment, and refrigeration

53 - **CSA B51,** *Boiler, pressure vessel, and pressure piping code*
54 - **CSA B52,** *Mechanical refrigeration code*

Plumbing

Fittings and fixtures

55 - **CSA B125** suite of standards for plumbing fittings
56 - **CSA B45** suite of standards for plumbing fixtures

Piping

57 - **CSA B1800,** *Thermoplastic nonpressure piping compendium*
58 - **CSA B137** *Series, Thermoplastic pressure piping standards*
59 - **CSA B127.3,** *Fibrocement drain, waste, and vent pipe and pipe fittings*
60 - **CSA B242,** *Groove- and shoulder-type mechanical pipe couplings*

Drains and interceptors

61 - **CSA B79,** *Commercial and residential drains and cleanouts*
62 - **CSA B481** *Series, Grease interceptors*
63 - **CSA B64** *Series, Backflow preventers and vacuum breakers*

Water heat recovery

64 - **CSA B55.1,** *Test method for measuring efficiency and pressure loss of drain water heat recovery units*
65 - **CSA B55.2,** *Drain water heat recovery units*

Grey water systems

66 - **CSA B128.1/CSA B128.2,** *Design and installation of non-potable water systems/Maintenance and field testing of non-potable water systems*
67 - **CSA B128.3,** *Performance of non-potable water systems*

Drinking water systems

68 - **CSA B483.1,** *Drinking water treatment systems*
69 - **CAN/CSA-B126** *Series, Water cisterns*
70 - **CAN/CSA-B356,** *Water pressure reducing valves for domestic water supply systems*

Construction practices

Welding

71 - **CSA W47.1,** *Certification of companies for fusion welding of steel*
72 - **CSA W47.2,** *Certification of companies for fusion welding of aluminum*
73 - **CSA W48,** *Filler metals and allied materials for metal arc welding*
74 - **CSA W55.3,** *Certification of companies for resistance welding of steel and aluminum*
75 - **CSA W59.2,** *Welded aluminum construction*
76 - **CSA W117.2,** *Safety in welding, cutting, and allied processes*
77 - **CSA W178.1,** *Certification of welding inspection organizations*
78 - **CSA W178.2,** *Certification of welding inspectors*
79 - **CSA W186,** *Welding of reinforcing bars in reinforced concrete construction*

During construction

80 - **CAN/CSA-A371,** *Masonry construction for buildings*
81 - **CSA S269.1,** *Falsework and formwork*
82 - **CSA S269.2,** *Access scaffolding for construction purposes*
83 - **CAN/CSA-Z185,** *Safety code for personnel hoists*

Post-construction

84 - **CSA A770,** *Home Inspection*
85 - **CSA S851,** *Post-blast safety evaluation of buildings*
86 - **CSA Z320,** *Building commissioning*

Circularity and environment

87 - **CSA B805,** *Rainwater harvesting systems*
88 - **CSA O160,** *Formaldehyde emissions standard for composite wood products*
89 - **CSA S448.1,** *Repair of reinforced concrete in buildings and parking structures*
90 - **CSA S478,** *Durability in buildings*
91 - **CSA ZZ782,** *Guideline for design for disassembly and adaptability in buildings*
92 - **CSA Z783,** *Deconstruction of buildings and their related parts*

Factory-constructed buildings

93 - **CSA A277,** *Procedure for certification of prefabricated buildings, modules, and panels*
94 - **CSA A660,** *Certification of manufacturers of steel building systems*
95 - **CSA Z240 MH Series,** *Manufactured homes*
96 - **CAN/CSA-Z241 Series,** *Park model trailers*
97 - **CSA Z250,** *Process for delivery of volumetric modular buildings*
98 - **CSA Z251,** *Design of volumetric modular structures* (in progress)
99 - **CSA Z252,** *Volumetric modular construction – Guide to compliance and approval processes*

For more information, visit
www.csagroup.org/ConstructionInfrastructure

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