



## CSA A23.1/.2 CONCRETE STANDARD



**Public Review Period Closes Saturday, April 29, 2023**

For the past four years, 50 Technical Committee members of the CSA A23.1/A23.2 standards have been working to address the technical concerns raised by the industry, regarding the 2019 edition of the standard. The updated document proposes various changes to alleviate identified technical challenges faced by stakeholders in the ready mixed concrete industry and to streamline the navigation process for those who reference these standards.

All Concrete BC members and industry specifiers are encouraged to familiarize themselves with the proposed changes and offer comments to the CSA A23.1/A23.2 standard before the public review period closes on April 29, 2023.

The lengthy 1,000-page document is challenging to review, so the CSA has summarized the proposed technical changes to provide a more manageable format for public review and comments. The point form bulletins below summarize the suggested changes in the new edition of the standard:

- Additional guidance notes for in batch uniformity in Table 13.
- Addition of provisions for delivery tickets to be electronically provided.
- Additional guidance for timing of zero readings in A23.2-25A.
- Additional guidance for construction joints and contraction joints.
- Removal of F-Number requirements from Clause 7.7.1.4.
- Clarification around sampling requirements for acceptance testing.
- Clarifications to exposure classes in Table 1 and 2.
- Harmonization with A3000 with the removal of MH/MHL/LH/LHL cements and the addition of MSL and HSL portland limestone cements.
- Removal of note in 4.3.3.3 regarding ASTM C457 that is no longer relevant to provide clarity to producers.
- Removal of note from 7.1.2.2 for Curing.
- Inclusion of ASTM E1155 to supplement ASTM E1155M for use of imperial measurement devices to measure F-numbers.
- Inclusion of ASTM C1315 (Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete) for curing materials.
- Clarification for calculation of the fine aggregate sieve analysis results with washed samples in A23.2-2A.
- Clarification of the scope for A23.2-26A for use only with quarried carbonates and is not suitable for sand, gravels or non-carbonate rock types.

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- Revisions to the names of test methods in A23.2 to provide more clarity and standardization in naming.
- Harmonization with A3000 to remove reference to the autoclave expansion test in A23.2-25A.
- Remove reference to ASTM C1362 (withdrawn) for slump flow.
- Removal of Annex A, Special cements
- Relocate Clauses on combined aggregate uniformity from the test methods to section 4.
- Allow cements conforming to ASTM C1157 to be used when approved by the owner.
- Setting bulk resistivity limits in Table 2 for C-1, C-XL, A-1 and A-XL concretes to be used with A23.2-26C.
- Harmonization with A3000 for ground glass pozzolans, GH and GL, to be used in HVSCM.
- Clarification on use of fog spray or surface films for the protection of concrete placements.
- Warning regarding results of chloride ion penetrability of bulk resistivity testing when concrete contains known conductive materials.
- Addition of slump considerations to Table 5 for contractors when using Alternative 1.
- Reorganization of material in A23.2-24C and A23.2-25C for clarity.
- Changes to definitions and mock-up requirements for Architectural Concrete.
- Updates to Mass Concrete requirements and Annex T.
- Simplification of sections for Mass Concrete.
- Updates for sections for Self-consolidating Concrete.
- Removal of Annex I, High-performance concrete
- A new definition for Viscosity as it relates to Self-consolidating Concrete.
- Removal of the term steel for trowel finishes in recognition of alternative materials being used to manufacture trowels.
- Updates to clauses related to vapour retarding membranes.
- Clarifications regarding sponge materials for A23.2-26C for bulk resistivity testing.
- Addition of reference to ACI 224.3R (Joints in Concrete Construction) for contraction joints in walls and curbs.
- Merged and updated clauses for granular base slab thickness tolerances.
- Clarifications related to Fibre reinforced concrete.
- Modifications to allow for increased usage of Recycled Concrete Aggregates.
- Revisions to section on Shotcrete (dramatic changes including 15+ additional pages of requirements).

**The full edition of the concrete standard can be viewed with this link: <https://publicreview.csa.ca/Home/Details/4903>**

Public feedback will be considered by the CSA A23.1/A23.2 Technical Committee and the review process is expected to last until the end of this year, with the objective of publishing the official new edition of the standard in the spring of 2024.

## HAVE QUESTIONS?

If you have any questions regarding the proposed changes to this standard, please feel free to reach out directly to Jason Sanderson, Concrete BC's Executive Director, or any other member of the CSA A23.1/A23.2 Technical Committee.

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