



American Concrete Institute

38800 Country Club Drive  
Farmington Hills, MI 48331 USA  
+1.248.848.3700  
[www.concrete.org](http://www.concrete.org)

November 19<sup>th</sup>, 2021

**Engineers Geoscientists Manitoba**

870 Pembina Hwy  
Winnipeg, MB R3M 2M7

**Attention: Michael Gregoire, P.Eng., Director of Professional Standards & Grant Koropatnick, P.Eng., CEO & Registrar**

**CSA A 23.3:19 Design of concrete structures Annex D: Anchorage Notice of an important revision!**

The Canadian Standards Association A23.3:19 made a significant change to the standard as it relates to the installation and inspection of anchors (fasteners) installed in hardened concrete; generally described as post construction installed anchors. Annex D: Anchorage, is now a mandatory part of the standard. By way of explanation, the change in requirements which this announcement seeks to address, is that in previous version(s) of the standard, Annex D was written in "mandatory language" but was labeled "Informative". In the 2019 version of A 23.3, Annex D is now labeled "Normative" which means it has become a mandatory part of the standard. It is anticipated that the CSA S6 anchoring provisions will adopt similar installation and inspection requirements during the current cycle of code development.

We wish to draw attention specifically to sections D 10.1 to D 10.2.4 of Annex D, and paraphrase the requirements as follows:

- D 10.1 REQUIRES that anchors be installed by "qualified personnel"
- D 10.2.1 states that the level of inspection required varies by anchor category type, both mechanical and adhesive anchor installation may require inspection.
- D 10.2.2 refers to adhesive anchors and anticipates the possible requirement for "proof loading" and the requirements for either periodic "special inspection" or continuous "special inspection".
- D10.2.3 addresses the installation of "horizontally or upwardly inclined" adhesive anchors and mandates that the installation be performed by personnel certified under an applicable certification program; ACI/CRSI Adhesive Anchor Installer certification program is referenced.
- D 10.2.4 mandates that adhesive anchors "installed horizontally or upward inclined, etc." be continuously inspected during installation by an inspector specially approved for that purpose\*\*.

ACI 318 has required that Adhesive Anchors be installed and inspected by certified individuals for over a decade. While it has always been professionally prudent to ensure that proper installation of anchors is accomplished to assure that design parameters are met, in Canada, **designers and specifiers using CSA A23.3:19 are now required to comply with CSA A23.3 Annex D** in regard to the installation, inspection and reporting of inspection results, where applicable, of post construction installed anchors. This requirement will be further mandated upon the upcoming publication of the 2020 National Building Code of Canada later this year and subsequent provincial adoption.

The concrete industry looks for your support of this requirement, by way of its reflection in your technical standards. In doing so, the requisite ACI certification programs for Adhesive Anchor Installers and Post-installed Adhesive Anchor Inspectors will be offered through your local ACI (American Concrete Institute) sponsor group ([www.acimanitoba.ca](http://www.acimanitoba.ca)) or through another accessible through the ACI International website at [www.concrete.org](http://www.concrete.org).

\*Note: The former "ACI Adhesive Anchor Installation Inspector" certification program is now referred to as the "Post-Installed Concrete Anchor Installation Inspector".

Paul Masson  
Chair ACI C-611-Canadian Standards-based  
Certification Committee

R.J. McGrath  
Technical Committee Chair  
CSA A23.3:19

John W. Nehasil  
ACI Managing Director of Certification

*Always advancing*