

BC BUILDING CODE INTERPRETATION COMMITTEE

A joint committee with members representing
AIBC, APEGBC, BOABC, POABC

File No: 12-0089

INTERPRETATION

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Interpretation Date:	January 24, 2017
Building Code Edition:	BC Building Code 2012
Subject:	Anchorage of Building Frames
Keywords:	anchorage, anchor bolts
Building Code Reference(s):	9.23.6.1.(4)(c)

Question:

Clause 9.23.6.1.(4)(c) requires that anchor bolts that are used to anchor the building frame to the concrete foundations be designed so that the anchor bolts will not withdraw from the concrete foundation wall when the bolts are tightened.

Does this mean that the anchor bolts must be cast in place during the concrete pour?

Interpretation:

No

There are numerous ways to install anchor bolts that can meet the performance requirement to prevent withdrawing from the concrete foundation.

Drilling holes in the top of the concrete wall and inserting the anchor bolts in epoxy grout is an acceptable method for achieving the performance requirements, but a high level of quality control is required during the installation procedure. The anchors must be embedded at least 100 mm into the top of the concrete foundation wall, and the epoxy grout must be evenly distributed around the annular space between the anchor and the drilled hole. Strict adherence to the epoxy grout manufacturer is required.

Other acceptable methods utilize proprietary expansion anchors or adhesive anchors, provided they are embedded at least 100 mm into the top of the concrete foundation wall.



R. J. Light, Committee Chair

The views expressed are the consensus of the joint committee with members representing AIBC, APEGBC, BOABC, and POABC, which form the BC Building Code Interpretation Committee. The purpose of the committee is to encourage uniform province wide interpretation of the BC Building Code. These views should not be considered as the official interpretation of legislated requirements based on the BC Building Code, as final responsibility for an interpretation rests with the local *Authority Having Jurisdiction*. The views of the joint committee should not be construed as legal advice.