

# Precast concrete — Materials and construction



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## **A23.4-09**

### **July 2010**

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The following revisions have been formally approved and are marked by the symbol delta ( $\Delta$ ) in the margin on the attached replacement pages:

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CSA A23.4-09 originally consisted of **69 pages** (ix preliminary and 60 text) each dated **November 2009**. It now consists of the following pages:

<b>November 2009</b>	iii–viii and 1–60
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## Δ **Preface**

This is the fifth edition of CSA A23.4, *Precast concrete — Materials and construction*. It supersedes the previous editions, published in 2005, 2000, 1994, and 1978.

This Standard has been revised to include all necessary technical requirements for precast concrete. This Standard refers extensively to CSA A23.1. To make it easier to navigate between the two Standards, Annex D lists the clauses of CSA A23.1 that contain provisions relating to clauses in this Standard.

CSA acknowledges that the development of this Standard was made possible, in part, by the financial support of the Canadian Precast/Prestressed Concrete Institute.

This Standard was prepared by the Technical Committee on Precast Concrete, under the jurisdiction of the Strategic Steering Committee on Concrete and Related Products, and has been formally approved by the Technical Committee.

November 2009

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# ***Technical Committee on Precast Concrete***

<b>J. Fraser</b>	Strescon Limited, Bedford, Nova Scotia	<i>Chair</i>
<b>J.R. Fowler</b>	Canadian Precast/Prestressed Concrete Institute, Ottawa, Ontario	<i>Vice-Chair</i>
<b>E.C. Shelestynsky</b>	Procon Engineering Inspections Inc., Caledon, Ontario	<i>Vice-Chair</i>
<b>M. Arapovic</b>	Lafarge North America, Winnipeg, Manitoba	
<b>T. Bombini</b>	Tri-Krete Limited, Toronto, Ontario	
<b>G. Chambers</b>	ATI Canada Ltd., Vancouver, British Columbia	<i>Associate</i>
<b>P. DiLullo</b>	Halcrow Yolles, Toronto, Ontario	
<b>M. Ghabrial</b>	HGS Limited-Structural, Windsor, Ontario	
<b>K. Habib</b>	CSA International, Edmonton, Alberta	<i>Associate</i>
<b>M. Handa</b>	CSA International, Toronto, Ontario	<i>Associate</i>
<b>J. Kisilewicz</b>	City of Oshawa, Oshawa, Ontario	
<b>P.R. Kluchert</b>	Kluchert and Associates, Inc. Consulting Engineers, Toronto, Ontario	
<b>M.S. Mirza</b>	McGill University, Montréal, Québec	
<b>J. Moshfeghian</b>	Pre-Con Inc., Brampton, Ontario	
<b>F. Nabhan</b>	National Research Council Canada, Ottawa, Ontario	
<b>V.N. Zubacs</b>	City of Toronto Technical Services, Toronto, Ontario	
<b>M. Tumkur</b>	Canadian Standards Association, Mississauga, Ontario	<i>Project Manager</i>

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# A23.4-09

# ***Precast concrete — Materials and construction***

## **0 Introduction**

### **0.1 Referencing this Standard in contract documents**

Because this Standard references all of the applicable requirements of CSA A23.1, contract documents for precast concrete construction may reference this Standard without referencing CSA A23.1 as well.

### **0.2 Use of [Annex A](#)**

[Annex A](#) provides a recommended division of responsibilities between the owner and the manufacturer. [Table A.1](#) outlines three options that may be adopted by the owner when contract documents are prepared. Consideration should be given to including the text of [Annex A](#) in the contract documents, but if this is done, the owner should clearly specify which option has been adopted.

### **0.3 Use of [Annex B](#)**

[Annex B](#) deals with the scope of the work and is intended to assist owners preparing contract documents. The text of [Annex B](#) may be included in whole or in part in contract documents.

### **0.4 Use of [Annex C](#)**

[Annex C](#) provides a comprehensive listing of the capabilities manufacturers should possess to manufacture precast concrete products for different applications.

### **0.5 Use of [Annex D](#)**

[Annex D](#) lists the clauses of CSA A23.1 that correspond to the clauses of this Standard to assist users in locating topics common to both Standards.

## **1 Scope**

### **1.1 General**

This Standard specifies requirements for materials and methods for the manufacture, transportation, and installation of architectural, structural, and specialty precast concrete products.

**Note:** *This Standard should be specified for precast concrete elements used in segmental construction.*

### **1.2 Shop drawings**

This Standard specifies the requirements, in addition to those specified in CAN/CSA-A23.3, for precast concrete shop drawings.

### **1.3 Architectural precast concrete**

This Standard deals with the structural adequacy and architectural finishes of architectural precast concrete.