



**Underwriters'  
Laboratories of Canada®**

**Corporate Headquarters**

7 Underwriters Road  
Toronto, ON M1R 3B4  
Canada  
www.ulc.ca  
tel: 1 416 757 3611  
fax: 1 416 757 8915

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REPORT

on

CONCRETE BLOCKS (CAZTC)

Isolation Concept Isobloc.  
Omerville, QC Canada

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## INTRODUCTION

This report describes an investigation undertaken to establish the fire resistance ratings of Concrete Blocks. To accomplish this investigation, the manufacturing of the concrete blocks was witnessed by a representative of ULC. Samples of the concrete blocks were then used to build a 3.05 m by 3.05 m wall in a test frame. After allowing the block and mortar wall sufficient time to cure, the concrete block wall was subjected to a fire endurance test and hose stream test in accordance with CAN/ULC- S101-04, Standard Method of Fire Endurance Tests of Building Construction and Materials.

The assigned fire resistance rating for the concrete blocks is determined on the basis of occurrence of flaming and temperature rise on the unexposed surface of the wall, as well as exposure to the cooling and erosion effects of a hose stream test.

At the end of this Report, reference is made to ULC Design No. U907 which has been established as a result of the above investigation.

DESCRIPTION

PRODUCT COVERED:

Insulated concrete blocks for use in walls and partitions having an overall dimension of 240 mm by 190 mm by 390 mm.

GENERAL CHARACTER AND USE:

Concrete blocks are intended for use in nonbearing walls and partitions.

MARKING:

The products covered by this Report are eligible to bear the label or listing mark of Underwriters' Laboratories of Canada reading as follows:



LISTED

Concrete Blocks  
Control No. 31UU

CONSTRUCTION DETAILS:

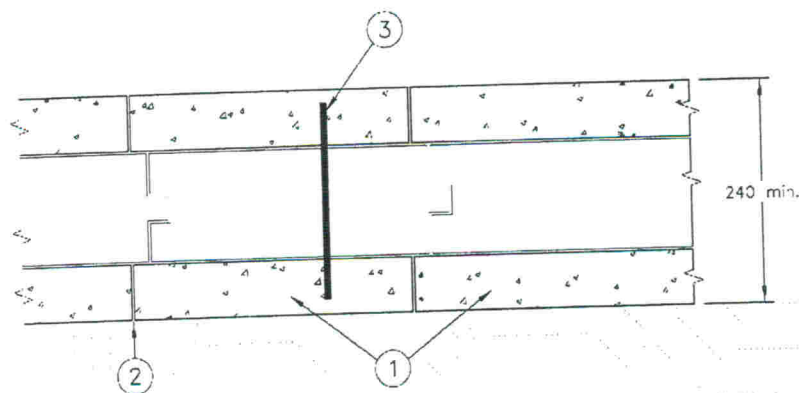
Concrete blocks were laid in a full bed of Type N mortar, 10 mm thick. Vertical joints were staggered.

## Fire Resistance Ratings

### Guide Information

Design No. U907

Assembly Rating - 2 h



HORIZONTAL SECTION NON-BEARING WALL

\* 1. **Concrete Blocks**—CAZTC (Guide No. 40 U18.4). 2 h rating based on noncombustible members framed into wall. Concrete block manufactured with expanded polystyrene insulation in the cavity.

ISOLATION CONCEPT ISOBLOC

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