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Údarás um Chaighdeáin Náisiúnta na hÉireann

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ICS 91.100.30

National Standards  
Authority of Ireland  
Northwood, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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**PRECAST CONCRETE PRODUCTS - NORMAL  
WEIGHT AND LIGHTWEIGHT CONCRETE  
SHUTTERING BLOCKS - PRODUCT  
PROPERTIES AND PERFORMANCE**

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ICS 91.100.30

English Version

## Precast concrete products - Normal weight and lightweight concrete shuttering blocks - Product properties and performance

Produits préfabriqués en béton - Blocs de coffrage en  
béton de granulats courants et légers - Propriétés et  
performances des produits

Betonfertigteile - Schalungssteine aus Normal- und  
Leichtbeton - Produkteigenschaften und  
Leistungsmerkmale

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## **Foreword**

This document (EN 15435:2008) has been prepared by Technical Committee CEN/TC 229 “Precast concrete products”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by January 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Construction Products Directive (89/106/EC).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

It also takes into account the “Common rules for precast concrete products” in EN 13369.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## **1 Scope**

This European Standard specifies the properties, performance and test methods of factory made, non-load bearing hollow concrete shuttering blocks made from normal weight or lightweight aggregates or a combination of both. Shuttering blocks may include vertical or horizontal interlocking features and factory installed supplementary insulation. Shuttering blocks are intended to be used to form walls and partitions when filled with concrete or mortar. Concrete shuttering blocks rely on a concrete or mortar infill for their structural performance and are not intended to be used unfilled.

This standard does not cover masonry units covered in EN 771-3.

## **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 772-11, *Methods of test for masonry units — Part 11: Determination of water absorption of aggregate concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units*

EN 772-14, *Methods of test for masonry units - Part 14: Determination of moisture movement of aggregate concrete and manufactured stone masonry units*

EN 772-16, *Methods of test for masonry units — Part 16: Determination of dimensions*

EN 772-20, *Methods of test for masonry units - Part 20: Determination of flatness of faces of aggregate concrete, manufactured stone and natural stone masonry units*

EN 1745, *Masonry and masonry products — Methods for determining design thermal values*

EN 12390-5:2000, *Testing hardened concrete — Part 5: Flexural strength of test specimens*

EN 12664, *Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Dry and moist products of medium and low thermal resistance*

EN 13369, *Common rules for precast concrete products*

EN 13501-1, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

EN ISO 12572, *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties (ISO 12572:2001)*

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