

IRISH STANDARD

I.S. EN 15498:2008

National Standards Authority of Ireland Northwood, Dublin 9 Ireland

ICS 91.100.30

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

h

Sales
http://www.standards.ie

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on: 9 July 2008

PRECAST CONCRETE PRODUCTS - WOOD-CHIP CONCRETE SHUTTERING BLOCKS -PRODUCT PROPERTIES AND PERFORMANCE

> NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2008 Price Code P

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. This page is intentionally left BLANK.

EUROPEAN STANDARD

EN 15498

NORME EUROPÉENNE EUROPÄISCHE NORM

April 2008

ICS 91.100.30

English Version

Precast concrete products - Wood-chip concrete shuttering blocks - Product properties and performance

Produits préfabriqués en béton - Blocs de coffrage en béton utilisant des copeaux de bois comme granulat -Propriétés et performances des produits Betonfertigteile - Holzspanbeton-Schalungssteine - Produkteigenschaften und Leistungsmerkmale

This European Standard was approved by CEN on 18 March 2008.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 15498:2008 (E)

Cont	tents	Page	
Forew	ord	5	
1	Scope	6	
2	Normative references		
3	Terms, definitions, symbols and abbreviations		
ა 3.1	Terms, definitions, symbols and abbreviations	7	
3.2	Symbols and abbreviations		
	•		
4	Requirements		
4.1	Material requirements		
4.1.1	Wood-chip concrete		
4.1.2	Supplementary thermal insulation materials		
4.2	Finished product requirements		
4.2.1 4.2.2	Geometric characteristics Density		
4.2.2	Moisture movement		
4.2.3 4.2.4	Reaction to fire		
4.2.5	Water vapour permeability		
4.2.6	Mechanical strength		
4.2.7	Acoustic properties		
4.2.8	Thermal properties		
4.2.9	Durability		
5.1	Principle		
5.2	Procedure		
5.2.1	Geometric characteristics		
5.2.2	Density	16	
5.2.3	Moisture movement	16	
5.2.4	Reaction to fire		
5.2.5	Water vapour permeability		
5.2.6	Mechanical strength		
5.2.7	Acoustic properties		
5.2.8	Thermal properties		
5.2.9	Durability		
6.1	General		
6.2	Demonstration of conformity		
6.3	Assessment of conformity		
6.4 6.5	Initial type testingFactory production control		
6.5.1	General		
6.5.2	Equipment	_	
6.5.3	Materials		
6.5.4	Production process		
6.5.5	Product testing		
6.5.6	Stock control		
7	Marking and labelling		
7.1	Marking and labelling on product		
7.2	Marking and labelling on delivery documentation		
Annex	A (normative) Filling pressure of concrete infill	22	
	B (normative) Determination of tensile strength of web		
	Principle	24	

EN 15498:2008 (E)

B.2	Apparatus	
B.3	Procedure	
B.4	Determination of tensile strength	
B.4.1	Principle	
B.4.2	Calculation of the minimum required tensile strength of the web	29
B.4.3	Measurement of the web tensile failure load and calculation of the tensile strength of	
	webs	29
B.5	Test report	30
Annov	C (normative) Determination of flexural strength of shells	24
C.1	Principle	
C.2	Apparatus	
C.2	Procedure	
C.4	Determining the flexural strength of shells	
C.4.1	General	
C.4.1	Calculation of the minimum required flexural strength of shells	
C.4.3	Measurement of the flexural failure load and calculation of the flexural strength of shells	
C.5	Test report	
	·	
Annex	D (normative) Test methods for determination of specific heat capacity	36
D.1	Principle	
D.2	Test device	
D.3	Specimen	36
D.4	Procedure	36
D.4.1	Core temperature measurement	36
D.4.2	Core temperature calculation	37
D.4.3	Comparison of measured and calculated core temperature	38
D.5	Determination of specific heat capacity	38
D.6	Test report	
D.7	VBA-Routine for calculation of core temperature (informative)	38
A	F (normative) Compiling for initial type testing	40
E.1	E (normative) Sampling for initial type testing	
E.1 E.2	General Sampling procedure	40
E.2.1		
	Random sampling	
E.2.2 E.2.3	Representative sampling	
E.2.3 E.2.4	Dividing the sample Number of shuttering blocks required for testing	
E.3	Place and dates of inspection and acceptance testing	42
Annex	F (normative) Compliance criteria for initial type testing and for independent testing of	
	consignment	43
A	G (informative) Example of an inspection scheme	4.4
G.1	Equipment inspection	
G.1.1	Testing and measuring equipment	
G.1.1 G.1.2		
G.1.2 G.2	Storage and production equipment	
_	Materials inspection	
G.2.1	All materials	
G.2.2	Materials not submitted to an assessment of conformity before delivery ²⁾	
G.3	Production process inspection	
G.4	Product inspection	
G.4.1	Product testing	
G.4.2	Marking, storage, delivery	
G.5	Switching rules	
G.5.1	Normal inspection	
G.5.2	Normal to reduced inspection	
G.5.3	Reduced to normal inspection	
G.5.4	Tightened inspection	
G.5.5	Tightened to normal inspection	
G.5.6	Stopped production	47

EN 15498:2008 (E)

Annex	ZA (informative) Relationship between this European Standard and the Essential	
	Requirements of EU Directive Constructions products	48
ZA.1	Scope and relevant characteristics	48
	Procedure(s) for attestation of conformity of wood-chipconcrete shuttering blocks	
ZA.2.1	System(s) of attestation of conformity	49
	EC Certificate and Declaration of conformity	
	CE marking and labelling	
Riblion	raphy	53
DIDIIO	ι αρτι y	

EN 15498:2008 (E)

Foreword

This document (EN 15498:2008) 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/EEC).

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

It also takes into account the EN 13369:2004 Common rules for precast concrete products.

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.

EN 15498:2008 (E)

1 Scope

This European Standard specifies the properties, performance and test methods of factory made, non-load-bearing hollow wood-chip concrete shuttering blocks, which may include factory installed thermal insulation.

These blocks are intended to be used for external and internal walls and partitions when filled with concrete.

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 772-14, 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 1607, Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces

EN 1793-1, Road traffic noise reducing devices — Test method for determining the acoustic performance — Part 1: Intrinsic characteristics of sound absorption

EN 1793-2, Road traffic noise reducing devices — Test method for determining the acoustic performance — Part 2: Intrinsic characteristics of airborne sound insulation

EN 1934, Thermal performance of buildings — Determination of thermal resistance by hot box method using heat flow meter — Masonry

EN 12524, Building materials and products — Hygrothermal properties — Tabulated design values

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

EN 13162, Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification

EN 13163, Thermal insulation products for buildings - Factory made products of expanded polystyrene (EPS) - Specification

EN 13164, Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification

EN 13165, Thermal insulation products for buildings - Factory made rigid polyurethane foam (PUR) products - Specification

EN 13166, Thermal insulation products for buildings - Factory made products of phenolic foam (PF) - Specification



This is a free preview. Purchase the entire publication at the link below

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation