

Fibre cement profiled sheets — Impact resistance test method

The European Standard EN 15057:2006 has the status of a
British Standard

ICS 91.100.40

National foreword

This British Standard is the official English language version of EN 15057:2006.

The UK participation in its preparation was entrusted by Technical Committee B/542, Roofing and cladding products for discontinuous laying, to Subcommittee B/542/4, Fibre-reinforced cement sheeting for roofing, which has the responsibility to:

- aid enquirers to understand the text;
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Summary of pages

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English Version

Fibre cement profiled sheets - Impact resistance test method

Plaques profilées en fibres ciment - Méthode d'essai de
résistance au choc

Faserzement-Wellplatten - Schlagfestigkeitsprüfung

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Foreword

This document (EN 15057:2006) has been prepared by Technical Committee CEN/TC 128 “Roof covering products for discontinuous laying and products for wall cladding”, the secretariat of which is held by IBN/BIN.

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of an identical text or by endorsement, at the latest by December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

Introduction

Different fibre-cement profiled sheets on the market incorporate additional features to contribute to security during construction of the roof.

Fibre-cement profiled sheets have been evaluated for impact resistance by a number of national methods, designed to simulate the impact of accidental falling on the roof.

The results from the different existing methods are not directly comparable.

This European Standard establishes an agreed method for evaluation of impact resistance of fibre-cement profiled sheet products, based on the experiences obtained over the last number of years in different countries.

This is a product standard with no classifications, but this test procedure with different drop heights or number of drops may be used by national regulators to set classifications for roof assemblies.

The performance of a roof constructed with these products depends not only on the property of the product as required by this European Standard, but also on the design, construction and performance of the roof as a whole in relation to the environment and conditions of use.

1 Scope

This European Standard specifies a soft body impact test method for fibre-cement profiled sheets for roofing.

This European Standard applies to fibre-cement profiled sheets conforming to EN 494 and of length greater than or equal to 1,04 m.

It applies only to products as delivered.

NOTE This European Standard can be applied, after agreement between manufacturer and purchaser, to curved sheets.

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 494:2004, *Fibre-cement profiled sheets and fittings — Product specification and test methods*

ISO 7892, *Vertical building elements — Impact resistance tests — Impact bodies and general test procedures*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

profiled sheet

component the cross section of which consists of corrugations as defined in 3.1 of EN 494:2004

3.2

type test

test carried out to demonstrate conformity with the requirements of this European Standard or for approval of a new product and/or when a fundamental change is made in formulation and/or method of manufacture the effects of which cannot be predicted on the basis of previous experience. The test is performed on the delivered product, but is not required for each production batch

3.3

as delivered

same condition as the producer intends to supply the product after completing all aspects of the process including maturing and, when appropriate, painting

3.4

span

distance between the parallel support axes

3.5

lap (overlap)

amount one sheet overlaps another at either the end (end lap) or the side (side lap)

4 Symbols and abbreviations

For the purpose of this document, the following symbols and abbreviations apply.

E Impact energy in joules