
**Fibre-cement slates and fittings —
Product specification and test methods**

*Ardoises et leurs accessoires en fibres-ciment — Spécification
du produit et méthodes d'essai*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2009

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	1
4 Symbols and abbreviations	3
5 Requirements	4
5.1 General.....	4
5.2 Composition	4
5.3 Appearance and finish	4
5.4 Dimensions and tolerances	5
5.5 Physical requirements and characteristics	6
5.6 Requirements concerning fire.....	7
5.7 Product performance.....	7
6 Evaluation of conformity.....	8
6.1 General.....	8
6.2 Type testing	8
6.3 Quality control system	9
6.4 Inspection of a consignment of finished products	10
7 Test requirements.....	10
7.1 General.....	10
7.2 Dimensional and geometrical tests	11
7.3 Physical performance tests	11
8 Marking	13
Annex A (normative) Consignment and inspection sampling.....	15
Annex B (normative) Dimensional measurement and geometrical testing procedures.....	16
Annex C (normative) Test method for the determination of the bending moment of fibre-cement slates	18
Annex D (normative) Statistical method for determining the corresponding wet values or revised dry specifications for the bending moment when making the dry method of test or when tested prior to coating for quality control purposes.....	21
Annex E (normative) Test method for the determination of the apparent density of fibre-cement slates	25
Annex F (normative) Test for the determination of water permeability of fibre-cement slates	27
Annex G (normative) Test method for the evaluation of the freeze-thaw performance of fibre-cement slates	28
Annex H (normative) Test method for the evaluation of heat-rain performance of fibre-cement slates	31
Annex I (normative) Test method for the warm-water evaluation test for fibre-cement slates.....	33
Annex J (normative) Test method for the soak-dry evaluation test for fibre-cement slates.....	35
Annex K (informative) Examples	37
Bibliography	40

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 9125 was prepared by Technical Committee ISO/TC 77, *Products in fibre reinforced cement*.

This second edition cancels and replaces ISO 9384:1991¹⁾ together with the first edition (ISO 9125:1990), which has been technically revised. It also incorporates the amendment ISO 9125:1990/Amd.1:2004 and the technical corrigenda ISO 9125:1990/Cor.1:1993 and ISO 9125:1990/Cor.2:2005.

1) ISO 9384:1991, *Fibre-cement siding shingles*.

Introduction

The purpose of this International Standard is to provide manufacturers and purchasers with uniform requirements for fibre-cement slate products. These requirements are performance based, and have been specified with the objective of ensuring product quality, industry efficiency, and the performance of the product in service.

In the development of this International Standard the technical committee had as an objective the harmonization, where possible, with other national fibre-cement standards, i.e. those of the European Committee for Standardization (CEN), American Society for the Testing of Materials (ASTM), Japanese Industrial Standards Committee (JIS), to facilitate and promote uniform performance benchmarks for the global use of fibre-cement products.

This document is a preview generated by EVS

Fibre-cement slates and fittings — Product specification and test methods

1 Scope

This International Standard specifies technical requirements and methods for the inspection and testing of fibre-cement slates and shingles and their fibre-cement fittings, designed to protect the weather-exposed surfaces on roofs and claddings of buildings.

Products covered by this International Standard can be used for other purposes provided they comply with the appropriate national or international application code or standard.

This International Standard applies to fibre-cement slates with a height dimension not exceeding 850 mm for overlapping assembly (see 5.4).

The type tests described in this International Standard are not intended to evaluate the performance of the coating in isolation (colour fastness, adhesion, etc.). Specific performance requirements for coatings are referenced in other ISO or national standards.

This International Standard does not apply to fibre-cement slates reinforced with asbestos fibres.

This International Standard does not include calculations for installation requirements, wind uplift or rain proofing of the installed products.

NOTE National standards for installation requirements can be adopted.

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.

ISO 390:1993, *Products in fibre-reinforced cement — Sampling and inspection*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 3951-1, *Sampling procedures for inspection by variables — Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL*

ISO 12468-1, *External exposure of roofs to fire — Part 1: Test method*

ISO 12468-2, *External fire exposure to roofs — Part 2: Classification of roofs*

3 Terms and definitions

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