
Vlaknato-cementne valovite strešne plošče in fazonski kosi - Specifikacija za izdelek in preskusne metode

Fibre cement profiled sheets and fittings - Product specification and test methods

Faserzement-Wellplatten und dazugehörige Formteile - Produktspezifikation und Prüfverfahren

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Plaques profilées en fibres-ciment (et accessoires) - Spécifications du produit et méthodes d'essai

[SIST EN 494:2005/A2:2006](https://standards.iteh.ai/catalog/standards/sist/ff59b2bb-abac-4e5c-ac0a-d0dd9c0ccc66/sist-en-494-2005-a2-2006)**Ta slovenski standard je istoveten z: EN 494:2004/A2:2006****ICS:**

91.060.20	Strehe	Roofs
91.100.40	Cementni izdelki, ojačani z vlakni	Products in fibre-reinforced cement

SIST EN 494:2005/A2:2006**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 494:2004/A2

September 2006

ICS 91.100.40

English Version

Fibre cement profiled sheets and fittings - Product specification and test methods

Plaques profilées en fibres-ciment et accessoires -
Spécifications du produit et méthodes d'essai

Faserzement-Wellplatten und dazugehörige Formteile -
Produktspezifikation und Prüfverfahren

This amendment A2 modifies the European Standard EN 494:2004; it was approved by CEN on 14 August 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This amendment 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of 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.

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

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Foreword

This document (EN 494:2004/prA2:2006) 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 document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2007, and conflicting national standards shall be withdrawn at the latest by June 2008.

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 Directive(s).

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

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EN 494:2004/prA2:2006 (E)**1 Modification to Clause 2**

Add the following normative reference:

“EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*”

“EN ISO 1716, *Reaction to fire tests for building products — Determination of the heat of combustion (ISO 1716:2002)*”

and delete the full stops at the end of the reference titles.

2 Modifications to 7.5.2.2**2.1 Modification 1**

Add the following subtitle:

“7.5.2.2.1 **General**”

2.2 Modification 2

Add the following paragraphs:

“7.5.2.2.2 **Mounting and fixing provisions for EN 13823**

7.5.2.2.2.1 End use applications

The end uses covered by the standardised mounting and fixing are fibre cement profiled sheets and fittings used as the external layer for discontinuously laid roof coverings, used as internal and external wall finishes and used as external ceiling finishes. In these end uses, the side of the product directed away from the fire is normally in contact with air and the cavity behind may or may not be filled with thermal insulation.

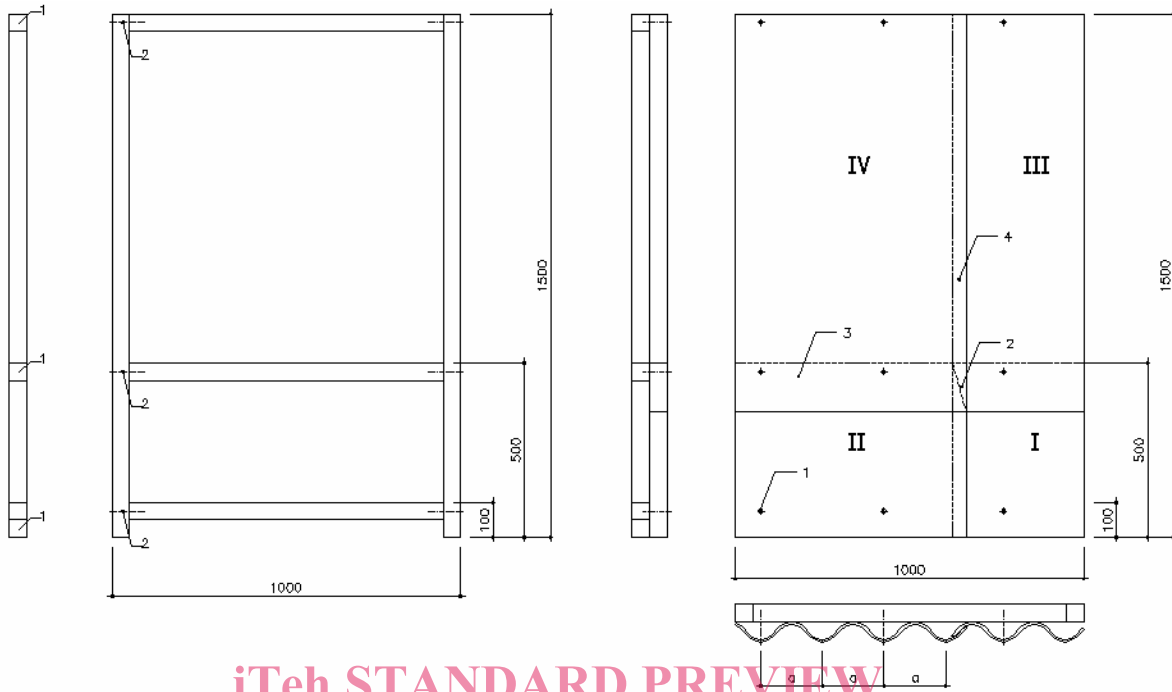
7.5.2.2.2.2 Test specimen

Products used for the construction of the test assembly are fibre cement profiled sheets with standard dimensions of length, width and thickness. They are cut to size to accommodate the dimensions of the test assembly. They include all facings and/or coatings that are normally applied to the product as it is placed on the market.

7.5.2.2.2.3 Test assembly**7.5.2.2.2.3.1 Dimensions**

The test assembly is a corner set up made of two timber frame supporting constructions each with a height of 1,5 m to which the fibre cement profiled sheets are fixed. One frame forms a long wing (1,0 m) the other frame forms a short wing (0,5 m). Further information is given in Figures 1, 2, 3, 4 and 5.

Dimensions in millimetres; tolerances: 2 %, unless otherwise specified in text



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Key

- 1 timber member (50 ± 1) mm × (50 ± 1) mm
- 2 screw or nail

Key

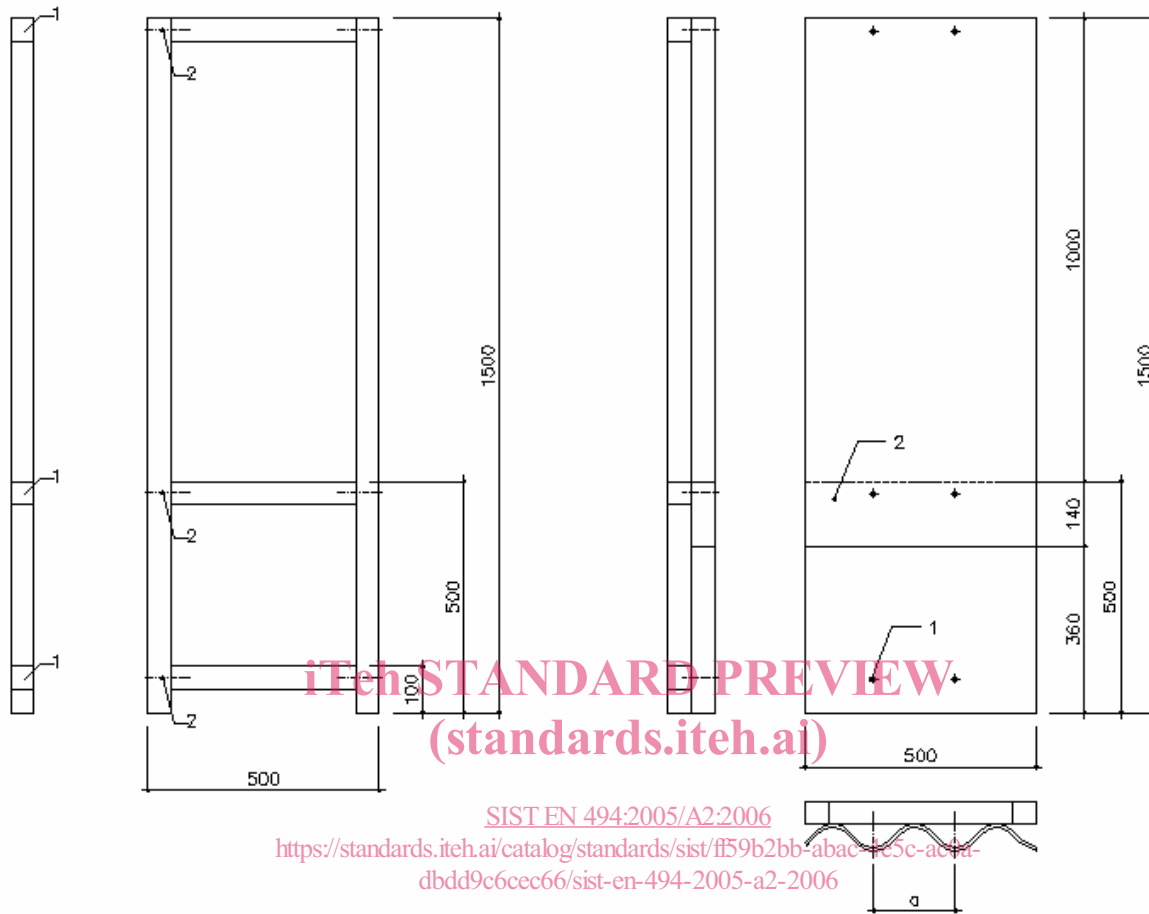
- I, II, III, IV order of fixing
- a pitch of the profile
- 1 screw fix into crown
- 2 mitring of sheets
- 3 end lap (horizontal)
- 4 side lap (vertical)

Figure 1 — Timber frame long wing

Figure 2 — Product fixing long wing

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<https://standards.iteh.ai/catalog/standards/sist/fb59b2bb-1b3c-456c-a9a-dbdd9c6cec66/sist-c-494-2005-a2-2006>

Dimensions in millimetres; tolerances: 2 %, unless otherwise specified in text

**Key**

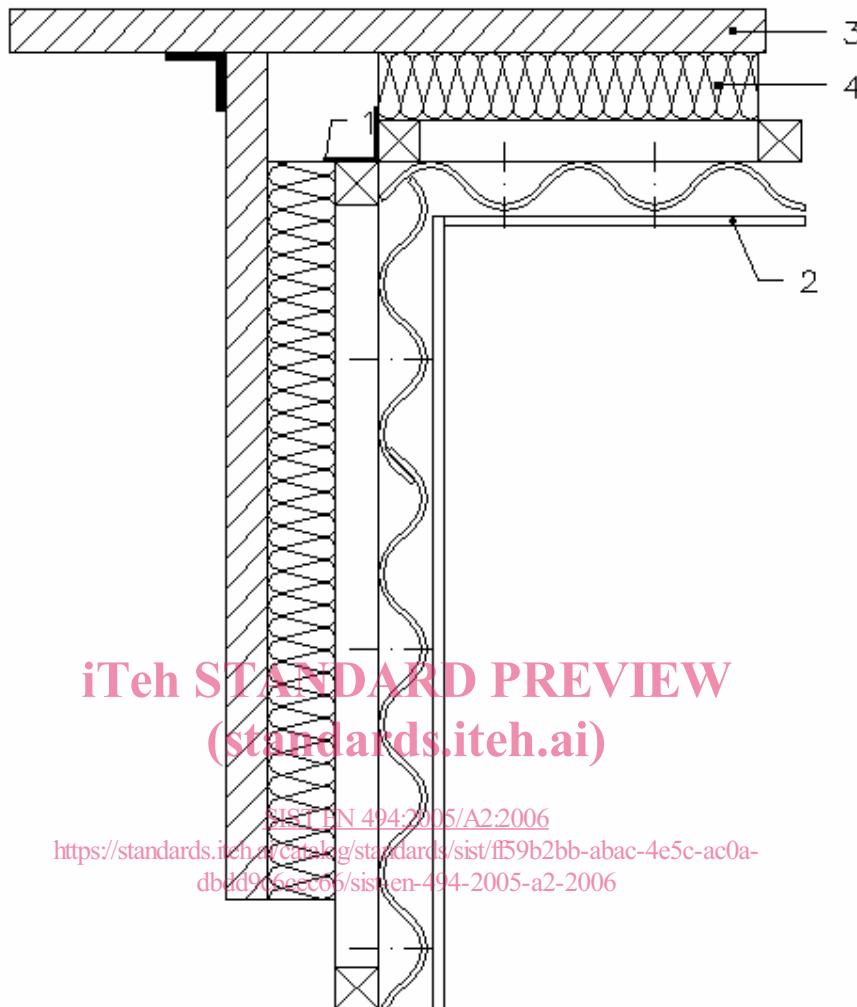
- 1 timber member (50 ± 1) mm × (50 ± 1) mm
- 2 screw or nail

Key

- a pitch of the profile
- 1 screw fix into crown
- 2 end lap (horizontal)

Figure 3 — Timber frame-short wing

Figure 4 — Product fixing short wing

**Key**

- 1 metal bracket or profile for connecting both frames
- 2 U-channel
- 3 backing board
- 4 insulation – mineral wool

Figure 5 — Corner set-up**7.5.2.2.3.2 Supporting construction and thermal insulation**

Both long and short wing frames are made out of wood, $(50 \pm 1) \text{ mm} \times (50 \pm 1) \text{ mm}$ or larger available standard sizes for vertical and horizontal members provided sufficient stability for the frames is obtained. They are nailed or screwed together. When mounted into the test rig they are positioned such as to leave a space of at least 80 mm between the test rig backing board and the frame. The frames with the fibre cement profiled sheets fixed to it shall be free standing. The space of at least 80 mm between test rig backing board and backside of the supporting frame shall be filled with mineral wool insulation with a nominal density of $(70 \pm 20) \text{ kg/m}^3$ and class A2-s1,d0 according to EN 13501-1. This configuration is representative for the end use as described in 7.5.2.2.2.1.