



National Standards Authority of Ireland

STANDARD

I.S. EN 13500:2003

ICS ICS

**THERMAL INSULATION PRODUCTS FOR
BUILDINGS - EXTERNAL THERMAL
INSULATION COMPOSITE SYSTEMS (ETICS)
BASED ON MINERAL WOOL -
SPECIFICATION**

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English version

**Thermal insulation products for buildings - External thermal
insulation composite systems (ETICS) based on mineral wool -
Specification**

Produits isolants thermiques pour bâtiments - Systèmes
composites d'isolation thermique par l'extérieur (ETICS) à
base de laine minérale - Spécification

Wärmedämmstoffe für Gebäude - Außenseitige
Wärmedämm-Verbundsysteme (WDVS) aus Mineralwolle -
Spezifikation

This European Standard was approved by CEN on 10 July 2003.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document EN 13500:2003 has been prepared by Technical Committee CEN/TC 88 "Thermal insulating materials and products", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by February 2004, and conflicting national standards shall be withdrawn at the latest by February 2004.

This European Standard contains two annexes:

Annex A (normative) Factory production control

Annex B (informative) Additional information for customers and designers

This European Standard is one of a series of standards for insulation products used in buildings, but can be used in other areas where appropriate.

This document includes a Bibliography.

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

EN 13500:2003 (E)

1 Scope

This European Standard specifies the requirements for factory made products for external thermal insulation composite systems (ETICS) based on mineral wool, delivered as a kit, and used as thermal insulation for buildings.

The standard describes product characteristics and includes procedures for testing, marking and labelling.

ETICS are applied to external surfaces of new or existing walls and/or soffits to improve the thermal insulation. ETICS include special fittings (base profiles, corner profiles, etc.) to connect them to adjacent building structures (apertures, corners, parapets, etc.). ETICS give protection against weathering and improve the appearance of the buildings. They do not contribute to the stability of the wall and/or soffits on which they are installed.

The standard covers systems where the thermal insulation material is required for the load transfer to the substrate.

This standard covers systems with a declared thermal resistance equal to or greater than 1 m²·K/W.

The requirements from national regulations concerning the mechanical resistance and stability of ETICS should be taken into account.

This standard does not cover the strength between the ETICS and the building surface to which it shall be fixed, i. e. the substrate.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1062-3, *Paints and varnishes – Coating materials and coating systems for exterior masonry and concrete – Part 3: Determination and classification of liquid-water transmission rate (permeability)*.

EN 1062-11, *Paints and varnishes – Coating materials and coating systems for exterior masonry and concrete – Part 11: Methods of conditioning before testing*.

EN 12085, *Thermal insulating products for building applications — Determination of linear dimensions of test specimens*.

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

EN 13172, *Thermal insulating products – Evaluation of conformity*.

EN 13494, *Thermal insulation products for building applications – Determination of the tensile bond-strength of the adhesive and of the base coat to the thermal insulation material*.

EN 13495, *Thermal insulation products for building applications – Determination of the pull-off resistance of external thermal insulation composite systems (ETICS) (foam block test)*.

EN 13496, *Thermal insulation products for building applications – Determination of the mechanical properties of glass fibre meshes*.

EN 13497, *Thermal insulation products for building applications – Determination of the resistance to impact of external thermal insulation composite systems (ETICS)*.

EN 13498, *Thermal insulation products for building applications – Determination of the resistance to penetration of external thermal insulation composite systems (ETICS)*.

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