



BSI Standards Publication

Thermal insulation products — Exterior insulation and finish systems (EIFS)

Part 2: Installation

National foreword

This British Standard is the UK implementation of [ISO 17738-2:2019](#).

The UK participation in its preparation was entrusted to Technical Committee B/540/8, Mirror committee for ISO/TC 163 - Thermal Performance and Energy use in the built Environment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2019
Published by BSI Standards Limited 2019

ISBN 978 0 580 51715 0

ICS 91.100.60

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2019.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

INTERNATIONAL STANDARD

ISO
17738-2

First edition
2019-08-29

Thermal insulation products — Exterior insulation and finish systems (EIFS) —

Part 2: Installation



Reference number
ISO 17738-2:2019(E)

AVA Documents
Document Sharing Hub
© ISO 2019



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements	3
5 Materials storage and handling	4
6 Substrate	4
7 Mixing	5
8 Installation of the liquid-applied water resistive barrier system	5
8.1 General	5
8.2 Transition membrane	6
9 Thermal insulation boards	6
9.1 General	6
9.2 Attachment of the thermal insulation boards	7
9.2.1 General	7
9.2.2 Clearances (spacing)	8
9.2.3 Rasping and surface preparation	8
9.3 Aesthetic reveals	9
10 Installation of the base coat and glass fibre reinforcing mesh	9
10.1 Attachment of the glass fibre reinforcing mesh	9
10.2 Terminations and aesthetic reveals	12
10.2.1 General	12
10.2.2 Wrapped terminations	12
10.3 Base coat surface	16
11 Installation of the finish material	16
11.1 General	16
11.2 Execution	17
Annex A (informative) Mechanical fasteners	18
Annex B (informative) Site quality assurance programme (SQAP)	19

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 3, *Thermal insulation products*.

A list of all parts in the ISO 17738 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides minimum installation requirements for an exterior insulation and finish system where the materials meet the requirements of [ISO 17738-1](#), and where the installation meets the requirements for design in accordance with [ISO 17738-3](#).

Exterior insulation and finish systems (EIFS) are a unique insulated cladding that consists of a water resistive barrier system (WRB) over the substrate, a drained cavity and an insulated cladding that is bonded adhesively to the WRB, covered with a base coat, mesh and a finish material.

A risk management process may recommend additional requirements for the establishment of a site quality assurance programme (SQAP). Additional information related to a SQAP is included in [Annex B](#).

This page deliberately left blank

Thermal insulation products — Exterior insulation and finish systems (EIFS) —

Part 2: Installation

1 Scope

This document specifies requirements for the installation of exterior insulation and finish systems (EIFS) for wall applications using material which meet the materials requirements of [ISO 17738-1](#) and the design requirements of [ISO 17738-3](#). This document further includes installation requirements for the EIFS materials that include a water resistive barrier (WRB) and decorative projections as part of the cladding system for walls.

This document does not include requirements for the structural design of the substrate/building structural members or for the integrity of the substrate/building structural members to which the EIFS is to be attached, nor the requirements for installation or repair of the substrate/building structural members before installation commences.

This document does not include requirements for the competence that an EIFS installer needs for installation of the system.

The installation of EIFS on horizontal surfaces exposed to direct precipitation is outside the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 7345](#), *Thermal performance of buildings and building components — Physical quantities and definitions*

[ISO 4624](#), *Paints and varnishes — Pull-off test for adhesion*

ISO 8873-1, *Rigid cellular plastics — Spray-applied polyurethane foam for thermal insulation — Part 1: Material specifications*

ISO 8873-2, *Rigid cellular plastics — Spray-applied polyurethane foam for thermal insulation — Part 2: Application*

[ISO 9229](#), *Thermal Insulation — Vocabulary*

[ISO 17738-1](#), *Thermal insulation products — Exterior insulation and finish systems — Part 1: Materials and systems*

[ISO 17738-3](#), *Thermal insulation products — Exterior insulation and finish systems — Part 3: Design requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in [ISO 7345](#), [ISO 9229](#) and [ISO 17738-1](#) and the following apply.