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

Part 4: Site verification

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Foreword

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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 document 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).

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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, components and systems.*

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.

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Introduction

EIFS are wall cladding assemblies designed to provide integrated air, thermal, vapour, and moisture control functions in addition to providing a range of aesthetic finishes.

As integrated assemblies, EIFS are installed as tested by the system manufacturer, detailed by the building design professional, and installed according to manufacturer and standard requirements. Also, if specified, they can be subject to a standardized process for conducting verification of these project phases.

Verification personnel verify and document that the EIFS installation comprises materials and products in conformance with ISO 17738-1, is being installed as per ISO 17738-2, with details that conform with ISO 17738-3, and all are in accordance with manufacturer's printed installation instructions.

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

Part 4:
Site verification

1 Scope

This document provides the requirements for site verification that an installed system of EIFS, (exterior insulation and finish system), conforms with the requirements of ISO 17738-1, is installed in conformance with ISO 17738-2 and designed in conformance with ISO 17738-3.

The document further covers EIFS installed on prefabricated panels being produced offsite and then installed on site.

This document does not purport to address all the safety concerns, if any, associated with its use.

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 3611, *Geometrical product specifications (GPS) — Dimensional measuring equipment — Design and metrological characteristics of micrometers for external measurements*

ISO 8503-2, *Preparation of steel substrates before application of paints and related products — Surface roughness characteristics of blast-cleaned steel substrates — Part 2: Method for the grading of surface profile of abrasive blast-cleaned steel — Comparator procedure*

ISO 13385-1, *Geometrical product specifications (GPS) — Dimensional measuring equipment — Part 1: Design and metrological characteristics of callipers*

ISO 16809, *Non-destructive testing — Ultrasonic thickness determination*

ISO 17738-1, *Thermal insulation products — Exterior insulation finish systems — Part 1: Materials*

ISO 17738-2, *Thermal insulation products — Exterior insulation and finish systems (EIFS) — Part 2: Installation*

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

ISO 21105-1, *Performance of buildings — Building enclosure thermal performance verification and commissioning — Part 1: General requirements*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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— IEC Electropedia: available at https://www.electropedia.org/

3.1
installation
work performed on site to install materials and products

3.2
project
building or structure over which the evaluated system is installed

3.3
verification
examination to confirm that an activity, a product or a service is in accordance with specified project requirements

3.4
prefabricated panels
wall assemblies that have been constructed off site with the exterior insulation finish system installed

3.5
third party
person or entity independent from the manufacturer or the installer

3.6
exterior insulation finish system verification personnel
EIFS verification personnel
third party person, persons or entity who reviews the evaluated system, installation records, project specifications, manufacturer's installation instructions and details to confirm conformance with the documents

3.7
evaluation agency
third party organization to evaluate conformance to the material standard and publishes a report which shows conformance or nonconformance

4 Scope of site verification

The EIFS verification personnel shall record what is visible on site at the time of the site verification and the results of any site testing conducted during the site visit. The EIFS verification personnel shall document by recording and photographing any discrepancies between the project documentation and what is visible on site.

EIFS verification personnel shall be representatives of the building owner, a qualified third-party person or entity, or a qualified third-party evaluation agency, all independent of the EIFS manufacturer or installer.

5 Levels of site verifications

This document covers three levels of site verifications corresponding to ISO 21105-1.

Level 1: Basic, minimum — includes at least one site visit to verify EIFS work at each stage of the application, on a sampling basis:

— substrate surface preparation and air and water resistive barrier application;

— adhesive and attachment of the thermal insulation boards;

— preparation of the insulation to receive the reinforced base coat;

— application of the reinforced base coat; and

— application of finish coat.

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Level 2: Intermediate, medium — includes the scope of review from Level 1 on an ongoing basis, sampling each review area on the order of 2-3 visits/reports per week when EIFS construction is ongoing – omitting time either not worked due to resources or weather conditions – or both, etc.

Level 3: Comprehensive, maximum — includes ongoing site verification at all times when EIFS installation work is occurring.

6 Project documentation

6.1 General

The site verification documentation may be used as part of a building envelope commissioning process in connection with ISO 21105-1. The level of review determined for each project shall form the basis for the site verification personnel's schedule for site visits and reporting. Factors affecting the level of site review include:

a) The owner's budget for compensating the entity that employs the site verification personnel;

b) The complexity of the scope of work;

c) The associated risk tolerance which the design professional(s), general contractor, and owner are comfortable with;

d) The EIFS verification personnel are responsible for reviewing all technical documentation in accordance with the level of site verification to be conducted.

NOTE It is common to increase the frequency of site verification when higher incidences of deficiencies are encountered. This is decided by the owner as part of contract administration.

6.2 Project specification

The project specification and other pertinent documents shall be reviewed by the EIFS verification personnel to confirm conformance with ISO 17738-3.

6.3 Material

The EIFS verification personnel shall confirm that the material and products are documented as conforming to ISO 17738-1 and that they have come from a single source, or sources approved by the EIFS manufacturer.

6.4 Installation

The EIFS verification personnel shall confirm that the installation, at the time of the site visit and documented in EIFS installer's written records, is in conformance with ISO 17738-2, the project specifications and the EIFS supplier's instructions. Any conflicts in the documentation or in the installation shall be noted on the site verification form and documented by photographs with indication where on the project the photographs were taken.

7 Pre-Construction Meeting

The EIFS verification personnel shall attend a pre-construction meeting when required in accordance with the ISO 21105-1 level of site verification determined, or when specified in the project documentation to attend.

8 Coordination with trades

The EIFS verification personnel shall determine the trades involved in the installation of the EIFS and any other trade that will be needed to be communicated with during the site verification process. The EIFS verification personnel shall communicate the requirements for EIFS installation site verification, and any

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