SLOVENSKI STANDARD
SIST EN 18159:2026

01-december-2026

Izolacijske sendvič plošče (panele) s kovinsko oblogo z dvojno plastjo za strešno kritino in obloge - Okoljske deklaracije za proizvode - Pravila za kategorije proizvodov za izolacijske sendvič plošče (panele) s kovinsko oblogo z dvojno plastjo za strešno kritino in obloge, ki dopolnjujejo standard EN 15804

Double skin metal faced insulating sandwich panels for roofing and cladding - Environmental Product Declarations - Product category rules complementary to EN 15804 for double skin metal faced insulating sandwich panels for roofing and cladding

Sandwichelemente mit beidseitigen Metalldeckschichten für Bedachungen und Bekleidungen - Umweltproduktdeklarationen - Produktkategorieregeln ergänzend zur EN 15804 für Sandwichelemente mit beidseitigen Metalldeckschichten für Bedachungen und Bekleidungen

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Panneaux sandwich isolants double peau à parement métallique pour couverture et bardage - Déclarations environnementales de produits - Règles de catégorie de produit complémentaires à l'EN 15804 pour les panneaux sandwich isolants double peau à parement métallique pour couverture et bardage

Ta slovenski standard je istoveten z: **EN 18159:2026**

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91.060.01	Stavbni elementi na splošno	Elements of buildings in general

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 18159

October 2026

ICS 91.060.01

English Version

Double skin metal faced insulating sandwich panels for roofing and cladding - Environmental product declarations - Product category rules complementary to EN 15804 for double skin metal faced insulating sandwich panels for roofing and cladding

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European foreword

This document (EN 18159:2026) has been prepared by Technical Committee CEN/TC 128 “Double skin metal faced insulating sandwich panels for roofing and cladding”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by April 2027, and conflicting national standards shall be withdrawn at the latest by April 2027.

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

This document is intended to be used in conjunction with EN 15804:2012+A2:2019 and EN 16783:2024.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

As in EN 15804:2012+A2:2019, in addition:

This document provides rules for environmental product declarations (EPD) for metal faced insulating sandwich panels for structural and non-structural purposes in building envelopes. These sandwich panels consist of a thermal insulating core, e.g. of mineral wool or polyurethane, between outer layers of metal. Both sides of the core are bonded firmly to the two outer layers.

This document complements the core product category rules for all construction products and services as established in EN 15804:2012+A2:2019.

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1 Scope

This document provides product category rules (c-PCR), that are complementary to EN 15804:2012+A2:2019, for Type III environmental declarations for sandwich panels within the scope of EN 14509-1:— and EN 14509-2:—, which are used for non-structural and structural purposes in building envelopes and for sandwich panels with perforated faces and for sandwich panels with core materials others than defined in EN 14509-1:— and EN 14509-2:—.

Manufactured on industrial plant, double skin metal faced insulating sandwich panels are designed to be laid with overlapping edges in the following applications:

— roofs and discontinuous roofing;

— outer walls and wall cladding;

— walls (incl. partition walls) and (suspended) ceilings inside the building envelope.

This document is intended to be used cradle-to-grave, declaring modules A1-A3, modules C1-C4 and module D, according to EN 15804:2012+A2:2019

NOTE The assessment of social and economic performances at product level is not covered by 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.

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EN 14509-1:—,[1] *Factory-made double skin metal faced insulating panels for self-supporting applications*

EN 14509-2:—,[2] *Factory-made double skin metal faced insulating panels for structural applications*

EN 15804:2012+A2:2019,[3] *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

EN 16783:2024, *Thermal insulation products — Environmental Product Declarations (EPD) — Product Category Rules (PCR) complementary to EN 15804 for factory made and in-situ formed products*

EN ISO 9229:2020, *Thermal insulation — Vocabulary (ISO 9229:2020)*

EN 15941:2024, *Sustainability of construction works — Data quality for environmental assessment of products and construction work — Selection and use of data*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15804:2012+A2:2019 and in EN ISO 9229:2020 and the following apply.

3.1
core
layer of material, having thermal insulating properties, which is bonded between two metal faces

[1] Under preparation. Stage at the time of publication: prEN 14509-1:2026
[2] Under preparation. Stage at the time of publication: prEN 14509-2:2026
[3] As impacted by EN 15804:2012+A2:2019/AC:2021

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Note 1 to entry: Panels with special edge details in the longitudinal joints might utilize different core materials from the main insulating core (e.g. for improved fire performance) if these edge details have no influence on the mechanical performance of the panel.

3.2
face
flat, lightly profiled or profiled thin metal sheet bonded to the core

3.3
mineral wool
MW
insulation wool manufactured from molten stone, slag or glass

[SOURCE: EN 13162:2012+A1:2015, 3.1.1]

3.4
stone wool
SW
insulation wool manufactured from molten stone

3.5
glass wool
GW
Insulation wool manufactured from molten glass

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3.6
phenolic foam
PF
rigid cellular foam, the polymer structure of which is made primarily from the polycondensation of phenol, its homologues and/or derivatives, with or without aldehydes or ketones

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[SOURCE: EN 13166:2012+A2:2016, 3.1.1]

3.7
expanded polystyrene
EPS
rigid cellular plastic material, manufactured by moulding beads or granules of expandable polystyrene or one of its copolymers, with an air filled closed cellular structure, which is divided into four types related to the intended use:

— EPSi: for load bearing applications, where i stands for the declared value (expressed in compressive stress at 10 % deformation)

— EPS S: for non load bearing applications

— EPS SD: for non load bearing applications with acoustic properties

— EPS T: for floating floor applications

[SOURCE: EN 13163:2012+A2:2016, 3.1.1]

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