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Cold formed steel sheet piles - Part 2: Tolerances on dimensions and shape

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 10249-2:2024 sisaldab Euroopa standardi EN 10249-2:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 17.07.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 10249-2:2024 consists of the English text of the European standard EN 10249-2:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 17.07.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 77.140.70

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EUROPEAN STANDARD

EN 10249-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2024

ICS 77.140.70

Supersedes EN 10249-2:1995

English Version

Cold formed steel sheet piles - Part 2: Tolerances on dimensions and shape

Palplanches en acier profilées à froid - Partie 2 :
Tolérances sur dimensions et forme

Kaltgeformte Spundbohlen aus Stahl - Teil 2:
Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 10 June 2024.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 10249-2:2024) has been prepared by Technical Committee CEN/TC 459/SC 3 “Structural steels other than reinforcements”, 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 January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.

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 supersedes EN 10249-2:1995.

EN 10249-2:2024 includes the following significant technical changes with respect to EN 10249-2:1995:

- a) restructure of the standard;
- b) update of the normative references and general requirements;
- c) addition of a new Table 2 with the tolerance on the width;
- d) adaptation of the terms “sweep” and “bow” in 8.2 and 8.3;
- e) new wording for Clause 11 about the mass tolerance;
- f) addition of two figures in Clause 13 about interlocks.

EN 10249 consists of the following parts under the general title *Cold formed steel sheet piles*:

- *Part 1: Technical delivery conditions*
- *Part 2: Tolerances on dimensions and shape*

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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1 Scope

This document specifies the tolerances on dimensions, squareness of ends, straightness and mass of cold formed steel sheet piles and is designed to be read in conjunction with EN 10249-1.

This document specifies the tolerances of cold formed steel sheet piles produced from hot rolled strip or sheet with a thickness equal to or greater than 3 mm.

The products specified are for general, structural and civil engineering works. The types of steel sheet piles covered by this document are: Z-shaped, Omega-shaped and trench sheets.

This document also specifies options that can be agreed between the purchaser and the manufacturer at the time of the order and enquiry.

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.

EN 10021:2006, *General technical delivery conditions for steel products*

EN 10079:2007, *Definition of steel products*

EN 10051, *Continuously hot-rolled strip and plate/sheet cut from wide strip of non-alloy and alloy steels - Tolerances on dimensions and shape*

EN 10249-1, *Cold formed sheet piling of non alloy steels - Part 1: Technical delivery conditions*

EN 12063, *Execution of special geotechnical work - Sheet pile walls, combined pile walls, high modulus walls*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 10021:2006, EN 10079:2007, EN 10249-1 and the following 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/ui>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 General requirements

The tolerances on dimensions and shape of this document shall apply, as far as possible, in addition to the technical delivery conditions of EN 10249-1.

The determination of sheet pile dimensions and tolerances shall comply with the following preparation before any measurement is carried out. This requirement shall apply in the workshop or on-site without any distinction.

The sheet piles to be measured shall be extracted from the storing stack and laid down on the ground separately. The reference ground shall be flat and free of any local relief over the length of the sheet piles. Transverse supports, e.g. blocks, may be used for supporting the sheet piles on the ground, but the distance between supports shall not exceed five meters. The sheet piles shall be laid down parallel to the ground as indicated in Clauses 5 to 11. Double Z-shaped sheet piles without welding of the common interlock, as well as single Z-shaped piles shall be supported by blocks or any suitable supporting device.