BS EN 10248-2:2024

BSI Standards Publication

Hot-rolled steel sheet piles

Part 2: Tolerances on dimensions and shape

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National foreword

This British Standard is the UK implementation of EN 10248-2:2024. It supersedes BS EN 10248-2:1996, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/103, Structural Steels Other Than Reinforcements.

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

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Hot-rolled steel sheet piles - Part 2: Tolerances on dimensions and shape

Palplanches en acier laminées à chaud - Partie 2 : Tolérances sur dimensions et forme

Warmgewalzte Spundbohlen aus Stahl - Teil 2: Grenzabmaße und Formtoleranzen

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Full document details: BS EN 10248-2:2024

Contents

Page

European foreword ... 3
1 Scope ... 4
2 Normative references ... 4
3 Terms and definitions ... 4
4 General requirements ... 4
5 Height of profiles ... 5
5.1 U-shaped sheet piles ... 5
5.2 Z-shaped sheet piles ... 5
5.3 H-shaped sheet piles ... 6
6 Width of profiles ... 7
6.1 U-shaped sheet piles ... 7
6.2 Z-shaped sheet piles ... 8
6.3 Straight web sheet piles ... 9
6.4 H-shaped sheet piles ... 9
7 Wall thicknesses of profiles ... 10
7.1 U-shaped sheet piles ... 10
7.2 Z-shaped sheet piles ... 10
7.3 Straight web sheet piles ... 11
7.4 H-shaped sheet piles ... 12
8 Straightness of profiles (deviation from straight line) ... 13
9 Length of profiles ... 14
10 Squareness of ends of profiles ... 14
11 Mass of profiles ... 16
12 Interlocks of profiles ... 16
13 Options ... 17

Documents
Document Sharing Hub

Full document details: BS EN 10248-2:2024

European foreword

This document (EN 10248-2:2024) 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of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.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 10248-2:1995.

EN 10248-2:2024 includes the following significant technical changes with respect to EN 10248-2:1995:

a) restructure of the standard;

b) update of the normative references and general requirements;

c) review of the sketches;

d) new wording for Clause 10;

e) new wording for Clause 11 about the mass tolerance;

f) insertion of a new Table 15 about the misalignment of the head of sheet piles.

EN 10248 consists of the following parts under the general title *Hot rolled 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 hot rolled steel sheet piles and is designed to be read in conjunction with EN 10248-1.

The products specified are for general, structural and civil engineering works. The types of steel sheet piles covered by this document are: Z-shaped, U-shaped, straight web, H-shaped with their interlocking bars.

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 10248-1, *Hot-rolled steel sheet piles - 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 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 10248-1.

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 10. Double U-shaped and double Z-shaped sheet piles without crimping or welding of the common interlock, as well as single Z-shaped piles shall be supported by blocks or any suitable supporting device.

The tolerances on the straightness and thicknesses stated in this document are cumulative. Each sheet pile shall slide through its own weight when being threaded over the free length of one adjacent and identical sheet pile that has been installed in compliance with the installation tolerances of EN 12063.

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