



SLOVENSKI STANDARD
oSIST prEN 10248-2:2023
01-april-2023

Vročje valjana jeklena obešala - 2. del: Mejni odstopki mer in tolerance oblik

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

Warmgewalzte Spundbohlen aus Stahl - Teil 2: Grenzabmaße und Formtoleranzen

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

Ta slovenski standard je istoveten z: prEN 10248-2

<https://standards.iteh.ai/catalog/standards/sist/628a6afc-2b06-494f-a9fe-a7bf99cbfb62/osist-pren-10248-2-2023>

ICS:

77.140.70 Jekleni profili Steel profiles

oSIST prEN 10248-2:2023 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 10248-2

February 2023

ICS 77.140.70

Will supersede EN 10248-2:1995

English Version

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

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 459/SC 3.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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

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

European foreword

This document (prEN 10248-2:2023) 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 document is currently submitted to the CEN Enquiry.

This document will supersede EN 10248-2:1995.

In comparison with the previous edition EN 10248-2:1995, the following technical modifications have been made:

- 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*

prEN 10248-2:2023 (E)**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*

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 terminological 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.

Although the tolerances on the straightness 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.

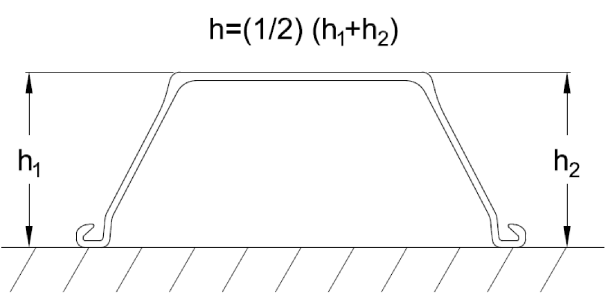
5 Height of profiles

5.1 U-shaped sheet piles

The tolerances on the height of U-shaped sheet piles are given in Table 1.

Table 1 — Height of U-shaped sheet piles

Dimensions in millimetres

Designation	Figure	Nominal dimension	Tolerance
Height h	 $h = \frac{1}{2}(h_1 + h_2)$	$h \leq 200$	± 4
		$h > 200$	± 5

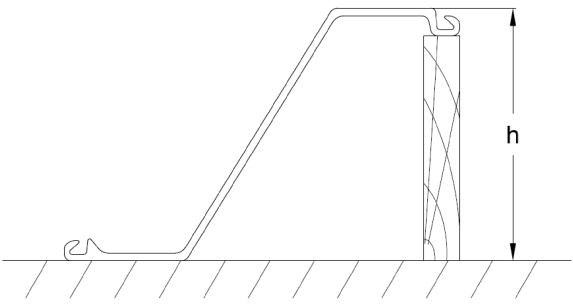
Tolerances on the height of sections made of a pair of crimped or welded piles may be agreed at the time of the enquiry and order: see **Option 1**, Clause 13.

5.2 Z-shaped sheet piles

The tolerances on the height of Z-shaped sheet piles are given in Table 2.

Table 2 — Height of Z-shaped sheet piles

Dimensions in millimetres

Designation	Figure	Nominal dimension	Tolerance
Height h		$h \leq 200$	± 5
		$200 < h < 300$	± 6
		$h \geq 300$	± 7

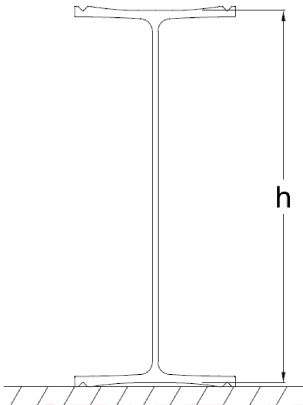
prEN 10248-2:2023 (E)

5.3 H-shaped sheet piles

The tolerances on the height of H-shaped sheet piles are given in Table 3.

Table 3 — Height of H-shaped sheet piles

Dimensions in millimetres

Designation	Figure	Nominal dimension	Tolerance
Height h		$h \leq 500$	± 5
		$h > 500$	± 7

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[oSIST prEN 10248-2:2023](https://standards.iteh.ai/catalog/standards/sist/628a6afc-2b06-494f-a9fe-a7bf99cbfb62/osist-pren-10248-2-2023)

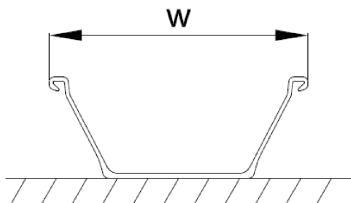
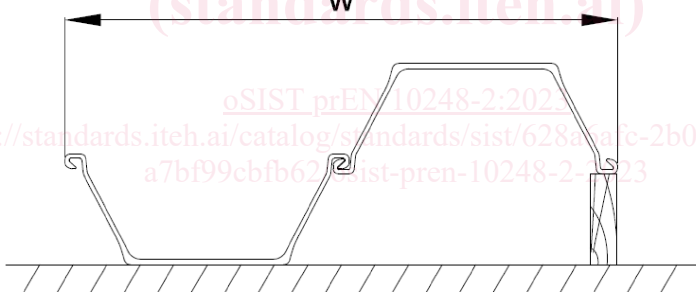
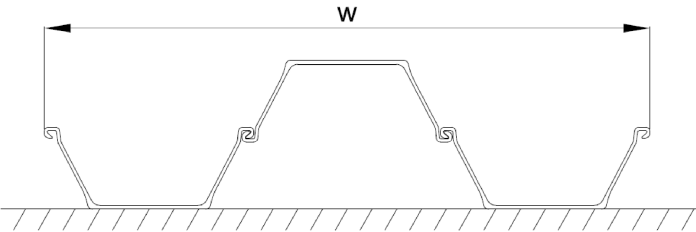
<https://standards.iteh.ai/catalog/standards/sist/628a6afc-2b06-494f-a9fe-a7bf99cbfb62/osist-pren-10248-2-2023>

6 Width of profiles

6.1 U-shaped sheet piles

The tolerance on the width of U-shaped sheet piles is given in Table 4.

Table 4 — Width of U-shaped sheet piles

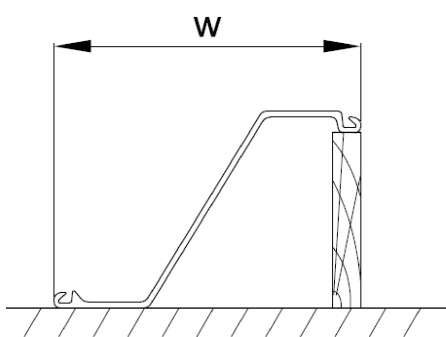
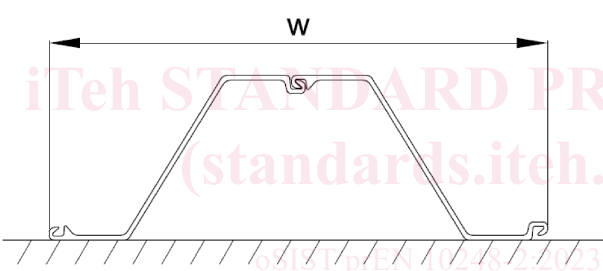
Designation	Figure	Nominal dimension	Tolerance
Width w Single pile		all	$\pm 2 \% w$
Width w Double pile		all	$\pm 3 \% w$
Width w Triple pile		all	$\pm 3 \% w$

prEN 10248-2:2023 (E)

6.2 Z-shaped sheet piles

The tolerance on the width of Z-shaped sheet piles is given in Table 5.

Table 5 — Width of Z-shaped sheet piles

Designation	Figure	Nominal dimension	Tolerance
Width w Single pile		all	$\pm 2 \% w$
Width w Double pile	 <p>NOTE For common interlocks that are neither crimped nor welded, an additional support might be required beneath the common interlocks to prevent an interlock swing.</p>	all	$\pm 3 \% w$