

# Conditions of Supply and Steel Grades

## Terms of delivery

Hot rolled steel piles are supplied according to DIN EN 10248, cold rolled piles according to DIN EN 10249.

## Steel grades

The steel grades used for our hot rolled steel piles comply with DIN EN 10248-1.

On request, steels complying with DIN EN 10025 (structural steels), DIN EN 10155 (weather-resistant) or other standard specifications can also be supplied.

High-strength weldable sheet piling steels with a minimum yield point of up to 500 N/mm<sup>2</sup> can be supplied according to works standards.

Cold rolled sheet piles can be supplied in steel grade S 275 JR to DIN EN 10249-1.

## Steel grades for sheet piling

Steel grades for sheet piling to DIN EN 10248-1

Steel grade	Tensile strength	Minimum yield point	Minimum elongation
	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%
S 240 GP	340	240	26
S 270 GP	410	270	24
S 320 GP	440	320	23
S 355 GP	480	355	22
S 390 GP <sup>1)</sup>	490	390	20
S 430 GP <sup>1)</sup>	510	430	19

1) For the higher-strength sheet piling steels S 390 GP and S 430 GP, an approval certificate (Z-30, 1-7) from the building supervisory authorities dated February 28, 2000 has been awarded. The approval is valid until February 28, 2010 and can be made available on request.

Higher-strength weldable sheet piling steels to works standards

Steel grade	Tensile strength	Minimum yield point	Minimum elongation
	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%
St Sp 460	550	460	17
St Sp 500	590	500	16

Steel grade for cold rolled trench sheeting and light-weight sections to DIN EN 10249-1

Steel grade	Tensile strength	Minimum yield point	Minimum elongation
	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%
S 275 JR	410	275	22

## Standardized steel materials for PEINE sections

Steel grades	Standard
General structural steels	EN 10025
Fine-grain structural steels	EN 10113
Weather-resistant steels	EN 10155
Sheet piling steels	EN 10248
Special steels of the PT series	PT materials standard Special works steels with minimum yield points of 355 to 460 N/mm <sup>2</sup>
Other steels available on request,	e. g. BS, NF, ASTM, JIS, CSAG, GOST, UNI

All section dimensions can be supplied to conventional national and international standards and, if necessary, to customer specification.

A selection can be found in the table on steel grades.

## Deviation limits and dimension tolerances for cold-rolled sheet piles made of unalloyed steels to DIN EN 10 249-2

Pile width:	single piles ±2 % double piles ±3%
Pile length:	Pile length may deviate by ±50 mm from the ordered length.
Weight:	The deviation between the arithmetic weight (as given in the table of sections) and actual weight of the total consignment is max. ±7%.

## Delivery Forms

Different forms of interlocking may be specified when ordering.

