

Special Services

Interlocks

Rolled-on interlocks allow steel piles to be joined together to form a coherent wall.

The interlocks must be designed with sufficient interlocking play while still being capable of withstanding the compressive, tensile and shearing forces to which they are subjected after assembly.

LARSEN, HOESCH and straight web sections have their own distinctive interlock designs.

Interlock designs

LARSEN section

Interlock design conforming to DIN EN 10248-2 and E 67 of EAU 2004



LARSEN 43, 430



HOESCH section (LARSEN interlock)

Interlock design conforming to DIN EN 10248-2 and E 67 of EAU 2004



HOESCH section (finger-and-socket interlock)

Interlock design conforming to DIN EN 10248-2 and E 67 of EAU 2004



PEINE locking bar / PEINE sheet piling

Interlock design conforming to DIN EN 10248-2 and E 67 of EAU 2004



UNION straight web section

Interlock design conforming to DIN EN 10248-2 and E 67 of EAU 2004



KL lightweight section

Interlock design conforming to DIN EN 10249-2



Coatings

The most common way of protecting sheet piling against corrosion is by coating. Experience has shown that coatings can delay the onset of corrosion by more than 20 years. To avoid harm to the environment caused by spray mist, steel elements should be factory coated to the required specifications wherever possible. If carefully handled, steel piles suffer only minimal coating damage during transportation and installation, and complete infactory coating is thus increasing in popularity. Selection of the coating system depends on the expected loads and the required lifetime (see DIN EN ISO 12944). We can supply steel piles with all common coating systems and would be pleased to assist customers with system selection.

To cope with the wear and tear of normal use, sheet pilings are most frequently provided with epoxy resin or polyurethane coatings. To minimize the burden on the environment, only tar-substitute or tarfree products should be used.

Hot dip galvanizing

Hot dip galvanizing is a common corrosion protection procedure in steel construction. Provision of an additional coating (duplex system) results in a synergetic effect. Individually galvanized steel piles can be supplied by special agreement.

The galvanizing of steel sheet piles requires a special steel analysis and compliance with regulations governing interlock tolerances. Surface quality and product identification must be taken into account. Notice should therefore be given of the intention to have the piles hot-dip galvanized before the start of rolling. For the requirements and tests/inspections, see DIN EN ISO 1461.

Welded structures

Our workshops have been producing welded structures from steel piles for over 60 years. All sheet piling steel grades are suitable for arc welding in compliance with general welding regulations.

Foundation piles, dolphins with accessories, HOESCH and LARSEN box piles, structural piles such as corner and junction piles, piles with shock plates, piles with weld-sealed interlocks and special piles for specific requirements are all manufactured to proven quality standards. Our workshops fully comply with standards for modern welding operations and are qualified in accordance with DIN 18800, part 7.

The general and special tasks of quality assurance, e. g. non-destructive weld seam testing, are carried out by an independent quality body to German or, if necessary, international regulations.

Dolphins with welded-on bollards



Submerged arc welding



LARSEN LK 430 box pile

