

SHEET PILING

Steel Sheet Piling has a connection "interlock" at both ends of the section. These interlocks connect with one another to form a continuous wall of Sheet Piling. Soil conditions may allow for the sections to be vibrated into the ground instead of being hammer driven. Typically these are designed to create a rigid barrier for earth and water, while resisting the lateral pressures of those bending forces. The shape or geometry of a section lends to the structural strength. In addition, the soil in which the section is driven has numerous mechanical properties that can affect the performance. The wall of sheeting provides excellent resistance to bending forces and is used to provide structural strength to a foundation.

Steel Sheet Piling is classified in two construction applications, permanent and temporary. A permanent application is one that "stays-in-place" where the sheet piling wall is driven and remains in the ground. A temporary application provides access and safety for construction in a confined area, but once the work is completed, the Sheet Piling is removed.

R.W. Conklin Steel carries a vast inventory of Sheet Pile. Hot-Rolled Sheet Piling, such as, PZ, PZC, and PS Shapes, as well as Cold-Formed Sheet Piling, such as, Lightweight, LZ, SZ, and MSZ (Mega-Z). All shapes can be used for combined walls and are available in all grade qualities.

Similar to H-Pile, it is an exciting time for Sheet Pile as well. Additional sizes for both Hot-Rolled, PZC Sheet Piling, and Cold-Formed Mega-Z (MSZ) Sheet Piling are being manufactured. Previously, PZC Sheet Piling was only available in PZC-13, 14, 18, 19, 25, 26, and 28. Now, PZC 37, 39, and 41 are available. These new sizes are comparable to PZ-40, and offer a higher Section Modulus and Moment of Inertia than the PZC-28 or the PZ-40. PZC's are manufactured to be wider, lighter, and stronger than traditional PZ piling, and because the new sizes have a higher Section Modulus and Moment of Inertia, they offer more possibilities for a variety of projects.

Mega-Z Sheet Piling is also being manufactured to provide larger sizes than have been previously available in Cold-Formed sections, which also offer a higher Section Modulus and Moment of Inertia.

In this section of the catalog, you'll also find information on Sheet Piling accessories such as:

SHEET PILING CONNECTORS

Connectors are made to highly stringent standards that form precise, seamless connections between steel Sheet Pile and other support systems, such as H-Piles, Wide Flange, and Pipe Piling.

SHEET PILING PROTECTORS

Sheet Piling Protectors help insure pile penetration and at the same time provide significant protection. These protectors may be installed with tack-weld or drive-fit.



COLD FORMED OR HOT ROLLED:

WHAT IS THE DIFFERENCE?

Cold rolling (or cold-formed) is a metal working process in which metal is formed by passing it through rollers at a temperature below its recrystallization temperature. Cold rolling increases the yield strength and hardness of a metal by introducing defects into the metal's crystal structure.

Hot Rolled Steel is heated up red-hot and pushed through rollers that squeeze the metal, literally squishing it into a particular profile, depending on the shape of the rollers. The manufacturing process involves forming the material by either press-braking or cold roll-forming to achieve the desired shape.

Since cold-formed steel is formed at room temperature, the material becomes harder and stronger. Its lightweight makes it easier and more economical to mass-produce, transport and install.