Inventories, depots and sales offices throughout the United States and Canada.
Wide Flange beams can be used for **cross bracing**, which is utilized to reinforce building structures when diagonal supports intersect. The common uses for cross bracing include bridges (for side supports) along with structural foundations. This method maximizes the weight of the load a structure is able to support.

Wide Flange beams can also be used for **water systems**, which are designed for soil conditions that are less stable, such as C-60 and C-80 Soil Types, requiring tight or intermittent Sheet Piling. They offer protection and system flexibility needed to work around crossing utilities and repair points in addition to producing trenches.

Wide Flange beams may also be used for **earth retention systems (retaining walls)**, which are structures designed and constructed to resist the lateral pressure of the soil when there is a desired change in ground elevation that exceeds the angle at which the soil rests.

Retaining walls are built to hold back soil which would otherwise move. Their purpose is to stabilize slopes so that areas of different elevations can co-exist. Common examples of these areas are surrounding highways, buildings, and railways.

When Wide Flange is used for retaining walls, the piling is drilled rather than driven. The process removes soil from the ground and the resulting round hole is filled with concrete around the Wide Flange.

Generally (whether driven with H-Pile or drilled with Wide Flange), the design of these wall systems require the piling to have 2/3 of its length below the ground, leaving 1/3 of the beam above ground. But this may vary depending on environmental conditions, and the specific requirements deemed necessary by the engineers developing the plans.

*In this section of the catalog, along with specifications for Wide Flange, you’ll also find information on Wide Flange accessories such as:*

**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.