Magnum Piering® MHLS1000

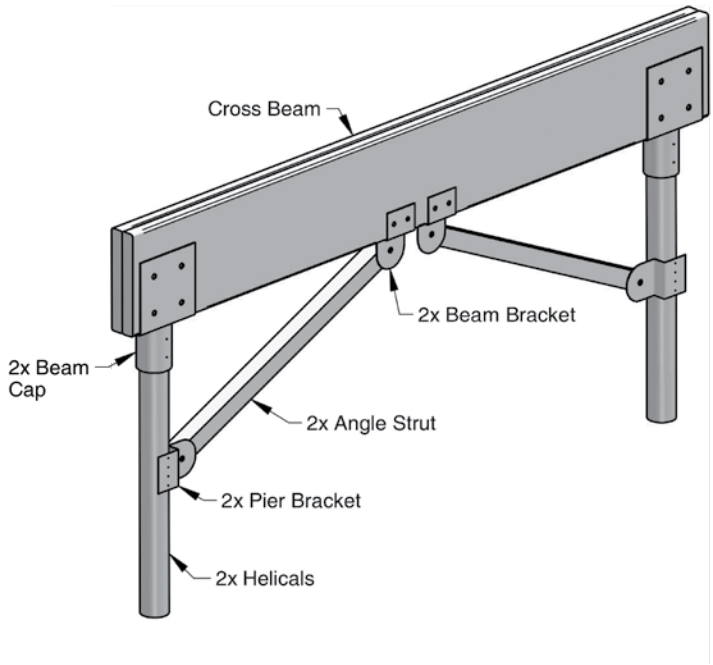
Boardwalk K-Bracing System

Allowable Lateral Capacity 2 Tons*

2″ x 2″ x 1/16″ Angles with Plate Steel Bracket Connections

Description

The Magnum MHLS1000 Boardwalk K-Bracing System consists of 2″ x 2″ x 1/16″ steel angles with 3″ x 3″ steel angle brackets for connection to Magnum MH313 and MH325 helical pile shafts. Sold separately are MHC1122 and MHC1123 steel angle caps that attach top of helical piles to dimension lumber, engineered wood, or rough timber cross beam. The K-brace system is easier to install, more economical, and generally performs better than the H-brace system. It can accommodate 4 ft to 12 ft wide boardwalks with clear heights above ground from 12″ to 48″. K-Braces can be used for boardwalks above this height, but Magnum generally recommends adding Magnum helical anchors as tie-backs at a 45 deg angle at 16 to 24 ft on-center along the length of the boardwalk for improved lateral performance. Custom K-brace sizes are available for wider or narrower boardwalks. K-braces provide lateral resistance and sideways stabilization. Each brace is fastened to wooden cross beam with (2) lag bolts. Opposite end of angle braces are affixed to pile shafts using Hilti PAF fasteners. The entire assembly can be hot-dip galvanized for increased corrosion resistance.



Features:

*Easier to Install, More Economical, and More Rigid than MHLS1005 H-Brace and Similar Competitors Systems

U.S. Patent Pending

Installation Note:

Layout and install boardwalk pile foundations. Cut-off pile shafts at required elevation. Mount wood beam support brackets to tops of piles (sold separately). Place wood cross beam. Install angle K-braces. Overlap K-braces by placing them on opposite sides of cross beam for shorter spans. Adjust K-brace location so bottom bracket is approximately 6 to 12 inches above grade.

*Lateral capacity is based on maximum structural resistance. Lateral capacity of brace/pile system depends on ground conditions and should be determined by a design professional for the specific job site and subsurface conditions. Contact Magnum technical support for design assistance.

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U.S. Patents 6,058,662 and 5,234,287; Other Patents Pending.