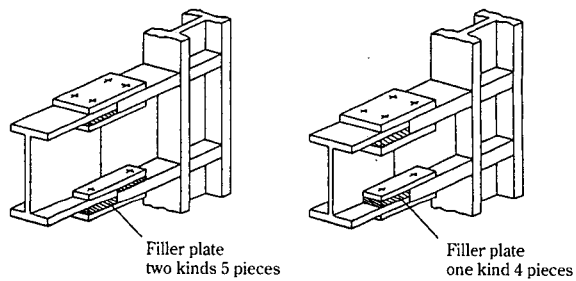


Steel Section Products for Current and 21st Century Social Infrastructure Applications*

Synopsis:

Kawasaki Steel Ltd. Technical Report No. 44



(a) Fixed inner dimension H-beam (b) Fixed outer dimension H-beam

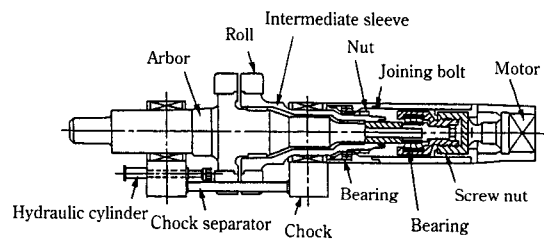


Fig. 3 Adjustable width roll for finishing universal mill

Fig. 2 Comparison of fixed outer dimension H-shapes with conventional H-shapes

damage caused by certain earthquakes including the Northridge Earthquake of January 17, 1994 and the Hanshin-Awaji Earthquake of January 17, 1995.²⁾ In order to respond to these needs, Kawasaki Steel has

ever, with the experience of steel fractures in structures caused by the Hanshin-Awaji Earthquake acting as turning point, the seismic resistance performance has become important also for steel sections. Heavy gauge H-beams with flanges as thick as 80 mm are increasingly used for columns of steel buildings with a seismic

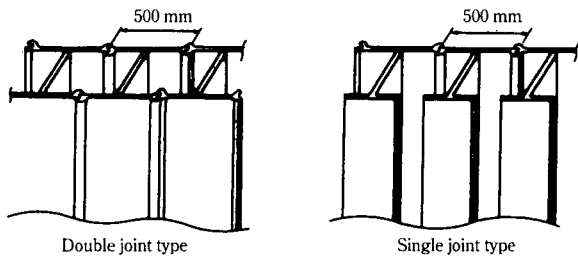
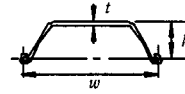
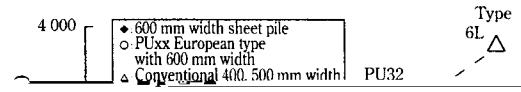


Fig. 5 Type of K-Domeru

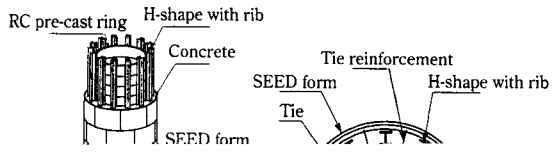


Size	w	h	t
KSP-2W	600	130	10.3
KSP-3W	600	180	13.4
KSP-4W	600	210	18.0

Fig. 7 New type sheet piling with 600 mm in width



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tion)¹¹⁾ were revised in April 1999 respectively and the specifications and standards relating to seismic resistance design were reviewed extensively. In the field of civil construction as well, the limit state design based on a performance concept is valid. At the same time