

## **EXTRA THICK HOT ROLLED H SECTION STEEL AND PRODUCTION METHOD THEREFOR**

The present invention discloses a extra thick hot rolled H section steel and a production method therefor. The extra thick hot rolled H section steel contains, by mass, the following chemical components: 0.04-0.11% of C, 0.10-0.40% of Si, 0.40-1.00% of Mn, 0.40-1.00% of Cr, 0.10-0.40% of Cu, 0.020-0.060% of Nb, 0.040-0.100% of V, 0.010-0.025% of Ti, 0.010-0.030% of Al, 0.0060-0.0120% of N, not more than 0.015% of P, not more than 0.005% of S, not more than 0.0060% of O, and the balance Fe and trace residual elements, wherein  $0.090\% \leq \text{Nb} + \text{V} + \text{Ti} \leq 0.170\%$ ,  $6.5 \leq (\text{V} + \text{Ti})/\text{N} \leq 10.5$ , and  $0.30\% \leq \text{CEV} \leq 0.48\%$ . The extra thick hot rolled H section steel has a flange thickness of 90 mm-150 mm, has excellent comprehensive mechanical properties, and can well meet the needs for heavy supporting structural parts of high-rise buildings, large squares, bridge structures, etc.

Figure 1