

GJ-HB-Q355B

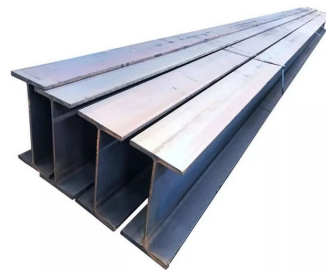
Hot Rolled H Beam

Grade: Q355B

GB/T 11263-2017 | GB/T 1591-2018 | EN 10025-2 S355JR equivalent **HOT ROLLED HIGH STRENGTH H BEAM**

PRODUCT DESCRIPTION

Hot rolled H beam Q355B is a low alloy high strength structural section with micro-alloying elements. It provides 50% higher yield strength than Q235B while maintaining excellent weldability and -20 degrees C impact toughness. This grade is the standard choice for heavy structures, bridges and engineering applications where material weight savings and load capacity are design priorities.



KEY FEATURES

- > High yield strength 355MPa for weight-optimized design
- > Excellent low temperature toughness at -20C ($\geq 27J$)
- > Micro-alloyed for fine grain structure and uniform properties
- > Low carbon equivalent ensures good field weldability
- > Suitable for seismic and high-load structural applications

TYPICAL APPLICATIONS

- > Long-span bridges and highway overpasses
- > High-rise building steel frames and mega columns
- > Offshore platforms and marine structures
- > Heavy machinery bases and press frames
- > Wind turbine towers and power transmission structures

CHEMICAL COMPOSITION (wt %)

C	Si	Mn	P	S	Nb+V+Ti
<=0.24	<=0.55	<=1.60	<=0.040	<=0.040	<=0.12

MECHANICAL PROPERTIES

Height (mm)	Yield >=MPa	Tensile MPa	Elong >=%	Impact -20C >=J
<=400	355	470-630	22	27
>400	345	470-630	21	27

DIMENSIONS & SPECIFICATIONS

Designation HxB	Web tw	Flange tf	Weight kg/m
100x100	6.0	8.0	17.2
150x150	7.0	10.0	31.9
200x200	8.0	12.0	50.5
250x250	9.0	14.0	72.4
300x300	10.0	15.0	94.5
350x350	12.0	19.0	137.0
400x400	13.0	21.0	172.0

PACKAGING & SHIPPING

Standard export packing: steel strapping bundles, waterproof wrapping, end protectors. Container loading: 20-25 tons per 40ft HC (length <=12m requires open top or flat rack).