

GJ-HB-Q235B

Hot Rolled H Beam

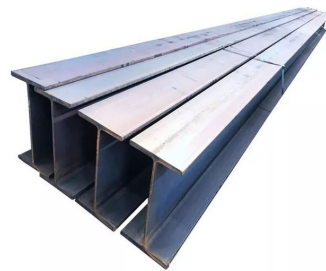
Grade: Q235B

GB/T 11263-2017 | GB/T 706-2016 | ASTM A36 equivalent

HOT ROLLED STRUCTURAL H BEAM

PRODUCT DESCRIPTION

Hot rolled H beam Q235B is a structural steel section with an H-shaped cross section, produced by hot rolling in a universal mill. The parallel flange design provides excellent structural efficiency with high moment of inertia and section modulus. Q235B is the standard carbon structural grade for general building and construction applications, offering good weldability and machinability.



KEY FEATURES

- > Parallel flange design with uniform thickness for easy connection
- > High section modulus and moment of inertia per unit weight
- > Excellent weldability with standard carbon steel procedures
- > Wide size range from 100x100mm to 900x300mm
- > Standard lengths 6m, 9m, 12m, custom cutting available

TYPICAL APPLICATIONS

- > Building frames: columns, beams and roof trusses
- > Industrial plant and warehouse construction
- > Bridge girders and pedestrian overpasses
- > Port crane rails and conveyor structures
- > Tower structures and sign supports

CHEMICAL COMPOSITION (wt %)

C	Si	Mn	P	S	Cu
<=0.20	<=0.35	<=1.40	<=0.045	<=0.045	<=0.30

MECHANICAL PROPERTIES

Height (mm)	Yield >=MPa	Tensile MPa	Elong >=%	Impact 20C >=J
<=400	235	370-500	26	27
>400	225	370-500	25	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).