

GJ-WHB-Q355B

Welded H Beam

Grade: Q355B

GB/T 11263-2017 | JGJ 81-2002 | AWS D1.1 welding standard

FABRICATED WELDED H BEAM

PRODUCT DESCRIPTION

Welded H beam is fabricated by welding steel plates together to form an H-shaped cross section, using submerged arc welding (SAW) or gas shielded arc welding (GMAW). Unlike hot rolled sections, welded H beams can be custom-designed to exact dimensions, with variable web and flange thicknesses, and can achieve larger sections beyond rolling mill capabilities. Full penetration welds with 100% ultrasonic inspection ensure structural integrity for critical applications.



KEY FEATURES

- > Fully customizable dimensions: up to 1200mm height, 600mm flange width
- > Variable web and flange thickness for optimized design
- > Submerged arc welding with full penetration, 100% UT inspection
- > Can combine different steel grades for web and flange
- > Camber and sweep control per project specifications

TYPICAL APPLICATIONS

- > Large-span industrial buildings and exhibition halls
- > Bridge girders and box girder components
- > Heavy crane girders and runway beams
- > Custom structural sections for special projects
- > Reinforcement and retrofitting of existing 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

Thickness (mm)	Yield >=MPa	Tensile MPa	Elong >=%	Impact -20C >=J
<=16	355	470-630	22	27
>16-40	345	470-630	21	27
>40-63	335	470-630	20	27

DIMENSIONS & SPECIFICATIONS

Parameter	Range
Height H	200 - 1200 mm
Flange Width B	150 - 600 mm
Web Thickness tw	6 - 30 mm
Flange Thickness tf	8 - 50 mm
Length	3 - 15 m (custom)
Welding Process	SAW / GMAW, full penetration
Inspection	100% UT per GB/T 11345 / AWS D1.1

PACKAGING & SHIPPING

Custom packing per project requirements: steel strapping, waterproof wrapping, lifting lugs, shipping brackets. Long items require flat rack or open top container.