

GJ-HB-A36

Hot Rolled Wide Flange Beam

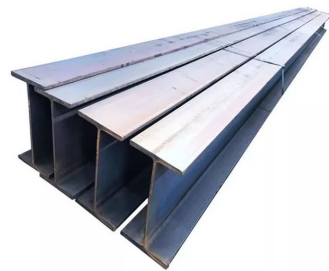
Grade: A36

ASTM A6/A36 | ASTM A992 alternative

ASTM WIDE FLANGE BEAM (W SERIES)

PRODUCT DESCRIPTION

ASTM A36 wide flange beam (W shape) is the standard structural steel section in North American construction. Designated by nominal depth in inches and weight per foot (e.g., W14x43), these sections feature parallel inner flange surfaces for easy bolting and welding. A36 is a carbon structural steel with guaranteed minimum yield strength of 250MPa and excellent fabrication characteristics.



KEY FEATURES

- > ASTM A6 dimensional standards with W-series designation
- > Parallel inner flange surfaces for simple connection design
- > Excellent weldability with SMAW/GMAW/FCAW processes
- > Wide range of sizes from W4x13 to W44x335
- > ASTM A6 mill test reports with full chemistry and properties

TYPICAL APPLICATIONS

- > North American building construction: beams, columns, girders
- > Bridge superstructure components and floor framing
- > Industrial equipment supports and conveyor systems
- > Pile foundations and retaining wall soldier piles
- > Export projects requiring ASTM certification

CHEMICAL COMPOSITION (wt %)

C	Mn	P	S	Si	Cu
<=0.25	<=1.03	<=0.04	<=0.05	<=0.28	<=0.20

MECHANICAL PROPERTIES

Thickness (mm)	Yield >=MPa	Tensile MPa	Elong >=%
<=203 (8in)	250	400-550	20
>203	220	400-550	20

DIMENSIONS & SPECIFICATIONS

Designation	Depth in	Web in	Flange in	Weight lb/ft
W8x31	8.00	0.285	0.435	31
W10x33	9.73	0.290	0.435	33
W12x40	11.94	0.295	0.515	40
W14x43	13.66	0.305	0.530	43
W16x50	16.26	0.380	0.630	50
W18x50	17.99	0.355	0.570	50
W21x50	20.83	0.350	0.535	50
W24x55	23.57	0.395	0.505	55

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).