

GJ-HB-HEB

European Standard H Beam

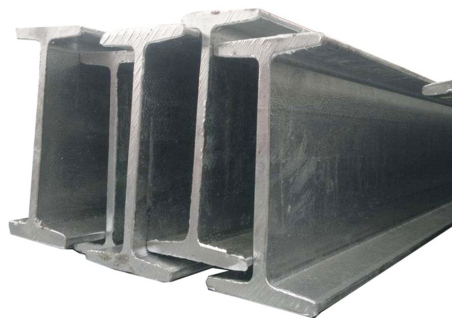
Grade: S355JR (HEB Series)

EN 10025-2:2019 | EN 10034:1993 | EN 10163-3 surface

EUROPEAN WIDE FLANGE BEAM (HEB / IPB)

PRODUCT DESCRIPTION

European standard HEB (IPB) wide flange beam is a hot rolled structural section per EN 10034, widely used in European and Middle Eastern construction. HEB sections feature wider flanges and thicker webs compared to HEA (IPEA) series, providing higher load capacity. Grade S355JR is the standard structural steel with guaranteed yield strength of 355MPa and impact toughness at +20 degrees C, with S355J0/J2 options available for lower temperature service.



KEY FEATURES

- > EN 10034 dimensional standard, HEB (IPB) wide flange series
- > S355JR grade: 355MPa yield, 27J impact at +20C
- > Excellent weldability with CE marking per EN 1090
- > Size range HEB100 to HEB1000 with full metric dimensions
- > Mill test certificates EN 10204 3.1 with full traceability

TYPICAL APPLICATIONS

- > European standard building and bridge construction
- > Industrial halls and warehouse structures in EU/MENA region
- > Mechanical engineering frames and machine beds
- > Crane runways and heavy load support structures
- > Export projects requiring CE marking and EN certification

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

Designation	H mm	B mm	tw mm	tf mm	Weight kg/m
HEB100	100	100	6.0	10.0	20.4
HEB140	140	140	7.0	12.0	31.4
HEB180	180	180	8.5	14.0	43.8
HEB200	200	200	9.0	15.0	50.5
HEB240	240	240	10.0	17.0	68.2
HEB300	300	300	11.0	19.0	94.6
HEB400	400	300	13.5	24.0	155.0

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).