

HEA Beams

OMEGA STEEL CO.
Istanbul · Dilovası plant

HEA is the light series of European wide-flange H-beams (EN 10365, DIN 1025-3 IPBI): flange width equal to the nominal depth up to HEA 300, thin flanges and web, the section for columns and for beams without lateral restraint. Actual depth is a little less than the number (HEA 200 is 190 mm). We stock HEA 100–400 in S275JR and S355J2, 6 and 12 m, from Turkish mills, cut, drilled and coated in Dilovası.

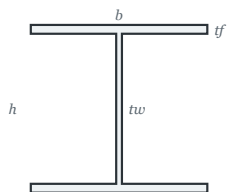
HEA 100–1000

S275JR · S355J2 stock

6 and 12 m

Columns & free beams

EN 10365 / 10034



HEA 200

Where a beam is on its own — no deck, no purlins holding it straight — or where it stands up as a column, the wide flange earns its weight. HEA gives that width at the lowest mass in the H family, which is why it is the column of choice for warehouses, mezzanines and multi-storey frames from Istanbul to Riyadh.

HEA DIMENSIONS AND WEIGHT PER METRE

Designation	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	kg per 12 m	Bars per ton (12 m)
HEA 100	96	100	5.0	8.0	16.7	200	5
HEA 120	114	120	5.0	8.0	19.9	239	4
HEA 140	133	140	5.5	8.5	24.7	296	3
HEA 160	152	160	6.0	9.0	30.4	365	3
HEA 180	171	180	6.0	9.5	35.5	426	2
HEA 200	190	200	6.5	10.0	42.3	508	2
HEA 220	210	220	7.0	11.0	50.5	606	2
HEA 240	230	240	7.5	12.0	60.3	724	1
HEA 260	250	260	7.5	12.5	68.2	818	1
HEA 280	270	280	8.0	13.0	76.4	917	1
HEA 300	290	300	8.5	14.0	88.3	1 060	1
HEA 320	310	300	9.0	15.5	97.6	1 171	1
HEA 340	330	300	9.5	16.5	105	1 260	1
HEA 360	350	300	10.0	17.5	112	1 344	1

First 14 of 24 rows — the full table is on the product page.

Depth h is below the nominal number (HEA 200 = 190 mm); flange width b = nominal up to 300, then 300 mm. Tolerances EN 10034: depth ± 2 –5 mm, mass -4 % / $+6$ %.

GRADES AND STANDARDS

Grade	Yield (MPa)	Impact	Use
S235JR	235	27 J at +20 °C	general construction, indoor
S275JR	275	27 J at +20 °C	the stock grade for most beams
S355J2	355	27 J at -20 °C	heavy, dynamic or cold-climate structures
S355J0 / K2	355	0 / -20 °C (40 J)	to order
A572 Gr. 50 / A992	345	on order	ASTM-designed projects

Rolled sections are certified to EN 10025-2 (S grades) or ASTM A6/A572/A992; CE marking under EN 10025-1. S275JR is what we stock; S235JR and S355J2 are rolled to order or held in the common sizes.

STANDARDS

EN 10365:2017 / DIN 1025-3 — dimensions · EN 10034 — tolerances · EN 10025-2 — S235JR, S275JR, S355J2 · EN 10025-1 — CE marking