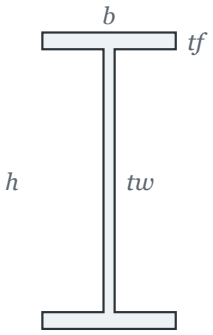
IPN Beams

OMEGA STEEL CO.
Istanbul · Dilovası plant

IPN is the original European I-beam (DIN 1025-1, EN 10365): tapered flanges with a 14 % inner slope, a thick web and a narrow flange. It is heavier than an IPE of the same depth but stiffer in the web, and it is still called up in older Turkish, Balkan, Iraqi and CIS designs, in machine bases and in crane rails. Known in Turkey as NPI. We supply IPN 80–600 in S235JR / S275JR (S355 on order), 6 and 12 m, cut to length.

IPN 80–600 | Tapered flange 14 % | S235JR / S275JR | 6 and 12 m | DIN 1025 / EN 10365



IPN 200

IPN survives because drawings survive: a 1980s factory extension in Baghdad, a refurbished crane runway in Craiova, a machine base copied from a German original all say NPI. Turkish mills still roll it in every size, and we stock the common ones next to the IPE — same yard, same saws, same price band.

IPN 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)
IPN 80	80	42	3.9	5.9	5.94	71	14
IPN 100	100	50	4.5	6.8	8.34	100	10
IPN 120	120	58	5.1	7.7	11.1	133	8
IPN 140	140	66	5.7	8.6	14.3	172	6
IPN 160	160	74	6.3	9.5	17.9	215	5
IPN 180	180	82	6.9	10.4	21.9	263	4
IPN 200	200	90	7.5	11.3	26.2	314	3
IPN 220	220	98	8.1	12.2	31.1	373	3
IPN 240	240	106	8.7	13.1	36.2	434	2
IPN 260	260	113	9.4	14.1	41.9	503	2
IPN 280	280	119	10.1	15.2	47.9	575	2
IPN 300	300	125	10.8	16.2	54.2	650	2
IPN 320	320	131	11.5	17.3	61.0	732	1
IPN 340	340	137	12.2	18.3	68.0	816	1

First 14 of 21 rows — the full table is on the product page.

tf is the mean flange thickness (flanges taper 14 % inside). Tolerances EN 10024: depth ±2–4 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 1025-1 — dimensions · EN 10024 — tolerances (tapered-flange I) · EN 10025-2 — S235JR, S275JR, S355J2 · EN 10025-1 — CE marking