

A universal beam is a length of structural steel that has a cross section in the shape of an “I” or an “H”. That is why the material is known as an I-beam or H-beam.

The web (vertical part of the “H” or “I”) withstands hard forces, while the flange (horizontal part of the “H” or “I”) endures bending movements the beam experiences. Sizes are determined by the web, flange and weight per metre.

### Production application

Universal beams are typically used in construction and civil engineering applications, especially as support for buildings to ensure that the structure is strong enough.

Size	Kg/m	Web dimensions (mm)	Flange dimensions (mm)	Height (mm)	Width (mm)
203 x 133	25.100	5.800	7.800	203.200	133.400
203 x 133	30.000	6.300	9.600	206.800	133.800
254 x 146	31.100	6.100	8.600	251.500	146.100
254 x 146	37.000	6.400	10.900	256.000	146.400
254 x 146	43.000	7.300	12.700	259.600	147.300
305 x 102	24.800	5.800	6.800	304.800	101.600
305 x 102	28.200	6.100	8.900	308.900	101.900
305 x 102	32.800	6.600	10.800	312.700	102.400
305 x 165	40.300	6.100	10.200	303.800	165.100
305 x 165	46.100	6.700	11.800	307.100	165.700
305 x 165	54.000	7.700	13.700	310.900	166.800
356 x 171	45.000	6.900	9.700	352.000	171.000
356 x 171	51.000	7.300	11.500	355.600	171.500
356 x 171	57.000	8.000	13.000	358.600	172.100
356 x 171	67.100	9.100	15.700	364.000	173.200
406 x 140	39.000	6.300	8.600	397.300	141.800
406 x 140	46.000	6.900	11.200	402.300	142.400
406 x 178	54.100	7.600	10.900	402.600	177.600
406 x 178	60.100	7.800	12.800	406.400	177.800
406 x 178	67.100	8.800	14.300	409.400	178.800
406 x 178	74.200	9.700	16.000	412.800	179.700
457 x 191	67.100	8.500	12.700	453.600	189.900
457 x 191	74.300	9.100	14.500	457.200	190.500
457 x 191	82.000	9.900	16.000	460.200	191.300
457 x 191	89.300	10.600	17.700	463.600	192.000
457 x 191	98.300	11.400	19.600	467.600	192.800
533 x 210	82.200	9.600	13.200	528.300	208.700
533 x 210	92.100	10.200	15.600	522.100	209.300
533 x 210	101.000	10.900	17.400	536.700	210.100
533 x 210	109.000	11.600	18.800	539.500	210.700
533 x 210	122.000	12.800	21.300	544.600	211.900