

I and H Beams

Our steel beams offer superb structural strength in any application. Internally, beams experience , and as a result of the loads applied to them. Typically, under gravity loads, the original length of the beam is slightly reduced to enclose a smaller radius arc at the top of the beam, resulting in compression.

Its main uses are: the manufacture of metallic structures, bridges, warehouses, buildings, ships, etc.



Steel Beams

Description	Unit of Measure	Weight (lbs)
BEAMS W 6"X4"X8.5 lbs/px30'	UN	255
BEAMS W 6"X4"X9 lbs/px30'	UN	270
BEAMS W 6"X4"X12 lbs/px30'	UN	360
BEAMS W 6"X6"X15 lbs/px30'	UN	450
BEAMS W 8"X4"X13 lbs/px30'	UN	390
BEAMS W 8"X8"X31 lbs/px30'	UN	930
BEAMS W 8"X8"X35 lbs/px30'	UN	1050
BEAMS W 10"X4"X15 lbs/px30'	UN	450
BEAMS W 10"X4"X12 lbs/px30'	UN	360
BEAMS W 10"X6"X22 lbs/px30'	UN	660
BEAMS W 10"X10"X49 lbs/px30'	UN	1,470
BEAMS W 12"X4"X14 lbs/px30'	UN	420
BEAMS W 12"X4"X16 lbs/px30'	UN	480
BEAMS W 12"X6.5"X26 lbs/px30'	UN	780
BEAMS W 12"X12"X53 lbs/px40'	UN	2,120
BEAMS W 12"X12"X74 lbs/px40'	UN	2,960
BEAMS W 14"X5"X22 lbs/px30'	UN	660
BEAMS W 14"X7"X30 lbs/px30'	UN	900
BEAMS W 16"X5.5"X26 lbs/px30'	UN	780
BEAMS W 16"X7"X36 lbs/px30'	UN	1,080
BEAMS W 18"X6"X35 lbs/px30'	UN	1050
BEAMS W 18"X6"X40 lbs/px30'	UN	1,200
BEAMS W 21"X6.5"X44 lbs/px30'	UN	1,320
BEAMS W 24"X9"X68 lbs/px30'	UN	2040

d = height

b_f = width of the flange

t_w = thickness of the web

t_f = thickness of the flange

h = internal height

d' = height without the web

AREA = sectional area

R = radius of the curve

I = moment of inertia

W = modulus of resistance

r = turning radius

Z = modulus of resistance

r_t = turning radius in relation to the Y-Y axis
 the T formed by the area of the flange
 plus 1/6 of the area of the web

I_t = moment of inertia towards torsion

i_f = slenderness of the flange

i_w = slenderness of the web (flat part)

C_w = warping constant

u = area of the surface

