

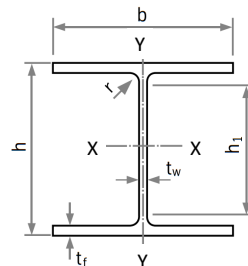


Universal Columns



Universal columns also known as H-sections are used as universal bearing piles and are dimensionally square structural beams that are driven into the ground for deep foundation applications. Most soils at or near the surface do not have the mechanical properties to support large buildings. As you go deeper into the earth's geology, there are layers (bearing strata) capable of doing so. H-Piles are manufactured and designed to transfer structural loads to these good bearing soils.

310 UC AS/NZS 3679.1: 2016 Grade 300 / 350



Weight		[kg/m]	96.8	118.0	137.0	158.0
Section Height	(h)	[mm]	308.0	314.6	320.6	327.2
Section Width	(b)	[mm]	305	307	309	311
Thickness Web	(t_w)	[mm]	9.9	11.9	13.8	15.7
Thickness Flange	(t_f)	[mm]	15.4	18.7	21.7	25.0
Root Radius	(r)	[mm]	16.5	16.5	16.5	16.5
Cross Sectional Area	(A)	[cm ²]	124.0	150.0	175.0	201.0
Second Moment of Inertia	(I_x)	[cm⁴]	22,300	27,700	32,900	38,800
	(I_y)	[cm ⁴]	7,290	9,020	10,700	12,500
Radius of Gyration	(i_x)	[cm]	13.40	13.60	13.70	13.90
	(i_y)	[cm]	7.67	7.75	7.82	7.89
Section Modulus	(Z_x)	[cm]	1,450	1,760	2,050	2,370
	(Z_y)	[cm]	478	588	691	807

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