

# Universal Beams in accordance with BS4



Standard dimension				Reference							
Serial size (mm)	Designation	Section area	Unit weight	Moment of inertia (cm <sup>4</sup> )		Radius of gyration (cm)		Section modulus (cm <sup>3</sup> )		Plastic section modulus (cm <sup>3</sup> )	
		(cm <sup>2</sup> )	(kg/m)	I <sub>x</sub>	I <sub>y</sub>	r <sub>x</sub>	r <sub>y</sub>	S <sub>x</sub>	S <sub>y</sub>	Z <sub>x</sub>	Z <sub>y</sub>
UB1016x305	1016 x 305 x 487	619	487.0	1020400	26720	40.6	6.57	19700	1732	23180	2799
	1016 x 305 x 438	556	438.0	908900	23440	40.4	6.49	17720	1535	20740	2467
	1016 x 305 x 393	500	393.0	806600	20490	40.2	6.40	15880	1353	18520	2167
	1016 x 305 x 349	445	349.0	722100	18460	40.3	6.44	14330	1222	16570	1940
	1016 x 305 x 314	400	314.0	643200	16230	40.1	6.37	12860	1082	14830	1712
	1016 x 305 x 272	346	272.0	552900	14000	40.0	6.36	11170	934	12800	1469
	1016 x 305 x 249	316	249.0	480300	11750	39.0	6.09	9799	784	11330	1244
1016 x 305 x 222	282	222.0	406900	9544	38.0	5.81	8387	636	9784	1019	
UB914x419	914 x 419 x 388	494	388.0	719600	45440	38.2	9.59	15627	2161	17665	3341
	914 x 419 x 343	437	343.3	625800	39160	37.8	9.46	13726	1871	15477	2890
UB914x305	914 x 305 x 289	368	289.1	504200	15600	37.0	6.51	10883	1014	12570	1601
	914 x 305 x 253	323	253.4	436300	13300	36.8	6.42	9501	871	10942	1371
	914 x 305 x 224	286	224.2	376400	11240	36.3	6.27	8269	739	9535	1163
	914 x 305 x 201	256	200.9	325300	9423	35.7	6.07	7204	621	8351	982
UB838x292	838 x 292 x 226	289	226.5	339700	11360	34.3	6.27	7985	773	9155	1212
	838 x 292 x 194	247	193.8	279200	9066	33.6	6.06	6641	620	7640	974
	838 x 292 x 176	224	175.9	246000	7799	33.1	5.90	5893	535	68058	842
UB762x267	762 x 267 x 197	251	196.8	240000	8175	30.9	5.71	6234	510	7167	959
	762 x 267 x 173	220	173.0	205300	6850	30.5	5.58	5387	514	6198	807
	762 x 267 x 147	187	146.9	168500	5455	30.0	5.40	4470	411	5156	647
	762 x 267 x 134	171	133.9	150700	4788	29.7	5.30	4018	362	4644	570
UB686x254	686 x 254 x 170	217	139.9	170300	5455	30.0	5.40	4470	411	5156	647
	686 x 254 x 152	194	125.1	150400	4788	29.7	5.30	4018	362	4644	570
	686 x 254 x 140	178	113.0	136300	6630	28.0	5.53	4916	518	5631	811
	686 x 254 x 125	159	125.2	118000	5784	27.8	5.46	4374	455	5000	710
UB610x305	610 x 305 x 238	303	238.1	209500	15840	26.3	7.23	6589	1017	7486	1574
	610 x 305 x 179	228	179.0	153000	11410	25.9	7.07	4935	743	5547	1144
	610 x 305 x 149	190	149.1	125900	9308	25.7	7.00	4111	611	4594	937
UB610x229	610 x 229 x 140	178	139.9	111800	4505	25.0	5.03	3622	391	4142	611
	610 x 229 x 125	159	125.1	98610	3932	24.9	4.97	3221	343	3676	353
	610 x 229 x 113	144	113.0	87320	3434	24.6	4.88	2874	301	3281	469
	610 x 229 x 101	129	101.2	75780	2915	24.2	4.75	2515	256	2881	400

UB457x191	457 x 191 x 98	125	98.3	45730	2347	19.1	4.33	1957	243	2232	379
	457 x 191 x 89	114	89.3	41020	2089	19.0	4.29	1770	218	2014	338
	457 x 191 x 82	104	82.0	37050	1871	18.8	4.23	1611	196	1831	304
	457 x 191 x 74	94.6	74.3	33320	1671	18.8	4.20	1458	176	1653	272
	457 x 191 x 67	85.5	67.1	29380	1452	18.5	4.12	1296	153	1471	237
UB406x178	406 x 178 x 74	94.5	74.2	27310	1545	17.0	4.04	1323	172	1501	267
	406 x 178 x 67	85.5	67.1	24330	1365	16.9	3.99	1189	153	1346	237
	406 x 178 x 60	76.5	60.1	21600	1203	16.8	3.97	1063	135	1199	209
	406 x 178 x 54	69.0	54.1	18720	1021	16.5	3.85	930	115	1055	178
UB406x140	406 x 140 x 46	58.6	46.0	15690	538	16.4	3.03	778	75.7	888	118
	406 x 140 x 39	49.7	39.0	12510	410	15.9	2.87	629	57.8	724	90.8
UB356x171	356 x 171 x 67	67.1	67.1	19460	1362	15.1	3.99	1071	157	1211	243
	356 x 171 x 57	72.6	57.0	16040	1108	14.9	3.91	896	129	1010	199
	356 x 171 x 51	64.9	51.0	14140	968	14.8	3.86	796	113	896	174
	356 x 171 x 45	57.3	45.0	12070	811	14.5	3.76	687	95	775	147
UB305x165	305 x 165 x 54	68.8	54.0	11700	1063	13.0	3.93	754	127	846	196
	305 x 165 x 46	58.7	46.1	9899	896	13.0	3.90	646	108	720	166
	305 x 165 x 40	51.3	40.3	8503	764	12.9	3.86	560	93	623	142
UB254x146	254 x 146 x 43	54.8	43.0	6544	677	10.8	3.52	504	92	566	141
	254 x 146 x 37	47.2	37.0	5537	571	10.8	3.48	433	78	483	119
	254 x 146 x 31	39.7	31.1	4413	448	10.5	3.36	351	61.3	393	94.1
UB203x133	203 x 133 x 30	38.2	30.0	2896	385	8.71	3.17	280	57.5	314	88.2
	203 x 133 x 25	32.0	25.1	2340	308	8.56	3.10	230	46.2	258	70.9
UB203x102	203 x 102 x 23	29.4	23.1	2105	164	8.46	2.36	207	32.2	234	49.8

(The information given on these tables is for initial information only. Any use of these figures is at users own risk.)