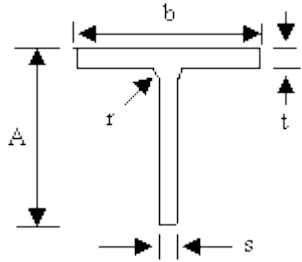


## Structural Tees Produced From Universal Beams



### Dimensions and Properties to BS4-10034

Properties have been calculated assuming that there is no loss of material due to splitting.

Designation	Mass per metre Kg/m	Cut from universal beam	Section		Thickness		Radius
			Width b (mm)	Depth a (mm)	Web s (mm)	Flange t (mm)	root r (mm)
419 x 457 x 194	194	914 x 419 x 388	420.5	460.5	21.4	36.6	24.1
419 x 457 x 172	171.5	914 x 419 x 343	418.5	455.9	19.4	32	24.1
305 x 457 x 145	144.5	914 x 305 x 289	307.7	463.3	19.5	32	19.1
305 x 457 x 127	126.5	914 x 305 x 253	305.5	459.2	17.3	27.9	19.1
305 x 457 x 112	112	914 x 305 x 224	304.1	455.2	15.9	23.9	19.1
305 x 457 x 101	100.5	914 x 305 x 201	303.3	451.5	15.1	20.2	19.1
292 x 419 x 113	113	838 x 292 x 226	293.8	425.4	14	26.8	17.8
292 x 419 x 97	97	838 x 292 x 194	292.4	420.3	14.7	21.7	17.8
292 x 419 x 88	88	838 x 292 x 176	291.7	417.4	14	14	17.8
267 x 381 x 99	98.5	762 x 267 x 197	268	384.9	15.6	254.4	16.5
267 x 381 x 87	86.5	762 x 267 x 173	266.7	381.1	14.3	21.6	16.5
267 x 381 x 74	73.5	762 x 267 x 147	265.2	377	12.8	17.5	16.5
267 x 381 x 67	67	762 x 267 x 134	264.4	375	12	12	16.5
254 x 343 x 85	85	686 x 254 x 170	255.8	346.4	14.5	23.7	15.2
254 x 343 x 76	76	686 x 254 x 152	254.5	343.7	13.2	21	15.2
254 x 343 x 70	70	686 x 254 x 140	253.7	341.7	12.4	19	15.2
254 x 343 x 63	62.5	686 x 254 x 125	253	338.9	11.7	16.2	15.2

305 x 305 x 119	119	610 x 305 x 238	311.4	317.9	18.4	31.4	16.5
305 x 305 x 90	89.5	610 x 305 x 179	307.1	310.1	14.1	23.6	16.5
305 x 305 x 75	74.5	610 x 305 x 149	304.8	306.2	11.8	19.7	16.5
229 x 305 x 70	70	610 x 229 x 140	230.2	308.6	13.1	22.1	12.7
229 x 305 x 63	62.5	610 x 229 x 125	229	306.1	11.9	19.6	12.7
229 x 305 x 57	56.5	610 x 229 x 113	228.2	303.8	11.1	17.3	12.7
229 x 305 x 51	50.5	610 x 229 x 101	227.6	301.3	10.5	14.8	12.7
210 x 267 x 61	61	533 x 210 x 122	211.9	272.2	12.7	21.3	12.7
210 x 267 x 55	54.5	533 x 210 x 109	210.8	269.7	11.6	18.8	12.7
210 x 267 x 51	50.5	533 x 210 x 101	210	268.3	10.8	17.4	12.7
210 x 267 x 46	46	533 x 210 x 92	209.3	266.5	10.1	15.6	12.7
210 x 267 x 41	41	533 x 210 x 82	208.8	264.1	9.6	13.2	12.7
191 x 229 x 49	49	457 x 191 x 98	192.8	233.6	11.4	19.6	10.2
191 x 229 x 45	44.5	457 x 191 x 89	191.9	231.7	10.5	17.7	10.2
191 x 229 x 41	41	457 x 191 x 82	191.3	230	9.9	16	10.2
191 x 229 x 37	37	457 x 191 x 74	190.4	228.5	9	14.5	10.2
191 x 229 x 34	33.5	457 x 191 x 67	189.9	226.7	8.5	12.7	10.2
152 x 229 x 41	41	457 x 152 x 82	155.3	232.9	10.5	18.9	10.2
152 x 229 x 37	37	457 x 152 x 74	154.4	231	9.6	17	10.2
152 x 229 x 34	33.5	457 x 152 x 67	153.8	229	9	15	10.2
152 x 229 x 30	30	457 x 152 x 60	152.9	227.3	8.1	13.3	10.2
152 x 229 x 26	26	457 x 152 x 52	152.4	224.9	7.6	10.9	10.2
178 x 203 x 37	37	406 x 178 x 74	179.5	206.4	9.5	16	10.2
178 x 203 x 34	33.5	406 x 178 x 67	178.8	204.7	8.8	14.3	10.2
178 x 203 x 30	30	406 x 178 x 60	177.9	203.2	7.9	12.8	10.2
178 x 203 x 27	27	406 x 178 x 54	177.7	201.3	7.7	10.9	10.2
140 x 203 x 46	23	406 x 140 x 46	142.2	201.6	6.8	11.2	10.2
140 x 203 x 20	19.5	406 x 140 x 39	141.8	199	6.4	8.6	10.2
171 x 178 x 34	33.5	356 x 171 x 67	173.2	181.7	9.1	15.7	10.2
171 x 178 x 29	28.5	356 x 171 x 57	172.2	179	8.1	13	10.2
171 x 178 x 26	25.5	356 x 171 x 51	171.5	177.5	7.4	11.5	10.2

171 x 178 x 23	22.5	356 x 171 x 45	171.1	175.7	7	9.7	10.2
127 x 178 x 20	19.5	356 x 127 x 39	126	176.7	6.6	10.7	10.2
127 x 178 x 17	16.5	356 x 127 x 33	125.4	174.5	6	8.5	10.2
165 x 152 x 27	27	305 x 165 x 54	166.9	155.2	7.9	13.7	8.9
165 x 152 x 23	23	305 x 165 x 46	165.7	153.3	6.7	11.8	8.9
165 x 152 x 20	20	305 x 165 x 40	165	151.7	6	10.2	8.9
127 x 152 x 24	24	305 x 127 x 48	12.53	155.5	9	14	8.9
127 x 152 x 21	21	305 x 127 x 42	124.3	153.6	8	12.1	8.9
127 x 152 x 19	18.5	305 x 127 x 37	123.3	15.2	7.1	10.7	8.9
102 x 152 x 17	16.5	305 x 102 x 33	102.4	156.3	6.6	10.8	7.6
102 x 152 x 14	14	305 x 102 x 28	101.8	154.3	6	8.8	7.6
102 x 152 x 13	12.5	305 x 102 x 25	101.6	152.5	5.8	7	7.6
146 x 127 x 22	21.5	254 x 146 x 43	147.3	129.8	7.2	12.7	7.6
146 x 127 x 19	18.5	254 x 146 x 37	146.4	128	6.3	10.9	7.6
146 x 127 x 16	15.5	254 x 146 x 31	146.1	125.7	6	8.6	7.6
102 x 127 x 14	14	254 x 102 x 28	102.2	130.2	6.3	10	7.6
102 x 127 x 13	12.5	254 x 102 x 25	101.9	128.6	6	8.4	7.6
102 x 127 x 11	11	254 x 102 x 22	101.6	127	5.7	6.8	7.6
133 x 102 x 15	15	203 x 133 x 30	133.9	103.4	6.4	9.6	7.6
133 x 102 x 13	12.5	203 x 133 x 25	133.2	101.6	5.7	7.8	7.6
102 x 102 x 12	11.5	203 x 102 x 23	101.8	101.6	5.4	9.3	7.6
102 x 89 x 10	9.5	178 x 102 x 19	101.2	88.9	4.8	7.9	7.6
89 x 76 x 8	8	152 x 89 x 16	88.7	76.2	4.5	7.7	7.6
76 x 63.5 x 6.5	6.5	127 x 76 x 13	76	63.5	4	7.6	7.6