

TABLE 7-20(1)
EQUAL ANGLES
GRADE 300

DESIGN SECTION CAPACITIES IN AXIAL TENSION
one leg attached

Designation	Mass per metre	Design Section Capacity in Axial Tension, ϕN_t (kN)		
		Welded No Holes	Bolted – N Holes in Leg	
			Hole Dia.	N =
	kg/m	N = 0	mm	1 2
200 x 200 x 26EA	76.8	2470	26	2470 2410
20EA	60.1	1930	26	1930 1890
18EA	54.4	1750	26	1750 1720
16EA	48.7	1670	26	1660 1540
13EA	40.0	1370	26	1360 1260
150 x 150 x 19EA	42.1	1350	26	1350 1250
16EA	35.4	1220	26	1170 1060
12EA	27.3	940	26	907 818
10EA	21.9	797	26	726 656
125 x 125 x 16EA	29.1	1000	26	944 827
12EA	22.5	774	26	731 642
10EA	18.0	657	26	586 515
8EA	14.9	544	26	486 428

Notes to Tables: (1) – indicates this number of bolts cannot be used on the leg
(2) Sizes smaller than 50 leg omitted since leg too small for high strength bolts
(3) All references to Grade 300 refer to the specification of OneSteel 300PLUS™ Steel or AS/NZS 3679.1-300.

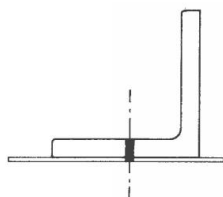


TABLE 7-20(2)
EQUAL ANGLES
GRADE 300

DESIGN SECTION CAPACITIES IN AXIAL TENSION
one leg attached

Designation	Mass per metre	Design Section Capacity in Axial Tension, ϕN_t (kN)		
		Welded No Holes	Bolted – N Holes in Leg	
			Hole Dia.	N =
		N = 0	mm	1
100 x 100 x 12EA	17.7	610	22	571
10EA	14.2	519	22	459
8EA	11.8	430	22	381
6EA	9.16	334	22	296
90 x 90 x 10EA	12.7	464	22	404
8EA	10.6	385	22	336
6EA	8.22	300	22	262
75 x 75 x 10EA	10.5	383	22	323
8EA	8.73	318	22	269
6EA	6.81	248	22	210
5EA	5.27	192	22	163
65 x 65 x 10EA	9.02	329	18	280
8EA	7.51	274	18	234
6EA	5.87	214	18	183
5EA	4.56	166	18	142
55 x 55 x 6EA	4.93	180	18	149
5EA	3.84	140	18	116
50 x 50 x 8EA	5.68	207	18	167
6EA	4.46	162	18	132
5EA	3.48	127	18	103
3EA	2.31	84.4	18	68.9