GROUND SCREWS AUSTRALIA

Ground Screw Load Ratings

		Loose Soil			100 kpa plus			150 kpa plus		
Ground Screw	**CHS** Dimensions	**C1**	**T1**	**H1**	**C2**	**T2**	**H2**	**C3**	**T3**	**H3**
	[mm]	[kN]			[kN]			[kN]	[kN]	[kN]
OS 66x550	66 x 2,0	2.5	1.7	0.5	5.0	3.5	0.7	7.5	5.5	1.2
OS 66x650	66 x 2,0	3.0	2.0	0.5	5.5	4.0	0.8	8.5	7.5	1.5
OS 66x650 4xM8	66 x 2,5	3.0	2.0	0.5	5.5	4.0	0.8	8.5	7.5	1.5
U 66x865	66 x 3.2	13.5	7.0	0.8	20.0	15.0	1.2	32.0	24	1.8
U 76x1300	76.1 x 3.6	25	12	6.0	36	25	7.5	50	40	15
OS 76x800 4xM12	76.1 x 3.2	14	7.5	3.5	20	12	4.5	28	18	6.0
OS 76x1000 4xM12	76.1 x 3.2	17	10	4.0	22	14	5.5	34	28	8.5
OS 76x1300 4xM12	76.1 x 3.2	25	12	6.0	36	25	7.5	50	40	15
OS 89x800 4xM12	88.9 x 3.6	18	10	4.0	24	15	5.0	32	25	7.5
OS 89x1000 4xM12	88.9 x 3.6	25	12	4.5	30	18	6.5	38	32	8.0
OS 89x1300 4xM12	88.9 x 3.6	32	18	7.5	40	30	10	60	50	18
OS 114x1000 4xM16	114.3 x 4.0	35	25	10	45	35	15	55	45	20
OS 114x1300 4xM16	114.3 x 4.0	45	35	12	55	45	18	70	55	22
OS 114x1600 4xM16	114.3 x 4.0	55	45	15	70	60	20	85	75	25
FM 76x1300 M16	76.1 x 3.6	25	12	6.0	36	25	7.5	50	40	10
FM 76x1600 M16	76.1 x 3.6	36	22	7.0	48	36	8.5	65	50	15
FM 76x2100 M16	76.1 x 3.6	55	40	11	65	55	15	75	60	18
FM 89x1300 M24	88.9 x 3.6	32	18	7.5	40	30	10	60	50	18
FM 89x1600 M24	88.9 x 3.6	48	25	10	55	40	12	70	60	20
FM 89x2100 M24	88.9 x 3.6	55	45	15	70	60	17	85	75	25
FM 114x1300 M24	114.3 x 3.6	45	35	12	55	45	18	70	55	22
FM 114x1600 M24	114.3 x 3.6	55	45	15	70	60	20	85	75	25
FM 114x2100 M24	114.3 x 3.6	65	55	17	75	65	22	100	90	30
OS 140x1300 4xM16	139.7 x 4.0	55	45	15	65	55	20	80	75	25
OS 140x1600 4xM16	139.7 x 4.0	65	55	17	80	70	25	100	90	30
OS 140x2100 4xM16	139.7 x 4.0	75	65	20	100	90	30	120	100	40
FM 140x1300 M24	139.7 x 3.6	55	45	15	65	55	20	80	75	25
FM 140x1600 M24	139.7 x 3.6	65	55	17	80	70	25	100	90	30
FM 140x2100 M24	139.7 x 3.6	75	65	20	100	90	30	120	100	40

Abbreviations:

$F_{Rd,c}$ (compression) = C1, C2, C3

$F_{Rd,t}$ (tension) = T1, T2, T3

$F_{Rd,h}$ (horizontal) = H1, H2, H3

Load ratings change according to ground conditions.

Our Ground Screws meet the requirements of the Building Code of Australia and comply with Australian Standards, in particular AS1170.1 Dead and Live Loads, AS1170.2 Wind Loads and AS4100 Steel Structures. Selecting the correct size, type and quantity of Ground Screws for a particular project depend on a number of factors, ie. ground / soil conditions, terrain category and wind loads. This chart is a guide only, and the advice of a structural engineer and / or on-site load testing is highly recommended.