

# Dimensioning - Minova Self Drilling Anchors (MAI)



	R32N	R32S	R38N	R51L	R51N	T51S	T76L	T76N	T76S	T111L	T111N
<b>ANCHOR</b>											
Outer Diameter (mm)	32	32	38	51	51	51	76	76	76	111	111
Inner Diameter (mm)	18,5	15,0	19,0	33,3	30,2	26,6	TBA	51	44	85	76
Cross-sectional Area (mm <sup>2</sup> )	430	520	750	900	1070	1325	TBA	1870	2400	3185	4395
Tensile Strength, $f_{yk}$ (Mpa)	650	690	660	610	750	790	TBA	860	790	830	830
Yield Strength, $f_{uk}$ (Mpa)	530	530	530	500	590	570	TBA	640	630	630	630
Nominal Maximum Force, $F_w$ (kN)	280	360	500	550	800	1050	TBA	1600	1900	2640	3650
Nominal Yield Force $F_y$ (kN)	230	280	400	450	630	750	TBA	1200	1500	2000	2750
Weight (kg/m)	3,4	4,1	6,0	7,0	8,4	10,4	TBA	14,7	18,9	25	34,5
Type of thread	R, ISO 10208			R, ISO 1720		MAI T51	MAI T76			MAI T111	
Elongation at maximum force (%)						≥ 5,0					
Standard						EN 10083-1					
<b>COUPLER</b>											
Outer Diameter (mm)	42	42	51	63	63	70	95	95	95	140	140
Length (mm)	160	160	220	140	220	160	220	220	220	250	250
Weight (kg)	0,77	1,0	1,70	1,71	2,24	2,21	4,73	4,73	4,73	11,50	11,50
<b>NUT</b>											
Width Across Flats (mm)	46	46	50	75	75	75	100	100	100	150	150
Length (mm)	45	45	60	85	85	70	80	80	80	120	120
Weight (kg)	0,39	0,39	0,52	1,99	1,99	1,99	2,72	2,72	2,72	8,95	8,95
<b>PLATE</b>											
Dimension (mm)	200x200	200x200	200x200	200x200	250x250	250x250	250x250	250x250	250x250	300x300	350x350
Thickness (mm)	10	12	12	30	40	50	60	60	60	80	90
Weight (kg)	2,41	3,06	3,61	8,80	19,00	24,00	27,00	27,00	27,00	50,82	78,93
<b>DRILL BIT</b>											
Clay (mm)	76/90/110	76/90/110	90/110/130/150	175	175	130	200	200	200	220	220
Sand - EX (mm)	51/76/90	51/76/90	76/90/115	100/115/130	100/115/130	100/115/130	130/150/175/200	130/150/175/200	130/150/175/200	175	175
Soil - EXX (mm)	51	51	90/115	115/130	115/130	-	175/200	175/200	175/200	220	220
Soft/Medium Rock - ES-F (mm)	51/76	51/76	90	115	115	115	130	130	130	-	-
Soft/Medium Rock - ESS-F (mm)	51/76	51/76	90	115	115	-	120/130	120/130	120/130	170	170
Hard Rock - Mitsubishi (mm)	51	51	76	89	89	89	120	120	120	170	170