

Ground Screws



We thrive in tough conditions, making challenging sites more predictable, and turning unusable land into valuable assets. Our ground screw foundations reduce upfront construction costs, accelerate project timelines, and eliminate subsurface risks. With over 1.3 million ground screws installed in all soil conditions, you can trust us to deliver a successful project each and every time.

Benefits

- Our ground screws are made with top-quality materials and finished with a superior corrosion resistant, hot-dip galvanized coating for long-lasting foundations.
- The spiral thread design on our ground screws minimizes embedment depth, which increases installation efficiency resulting in significant reduced costs.
- The key to a quality foundation is accuracy and plumbness. The patented, forged tip allows the screw to be accurately installed.
- Our fleet of advanced ground screw install machines, rock drills, survey and testing equipment can tackle the biggest solar ground mount projects.
- An experienced installation team that knows how to mitigate challenges and meet deadlines.

Specifications

Material	ASTM A500 GRADE C
Finish	Hot dip galvanized (min 2.8 mils thick) 1. ASTM A123 2. ISO 1461
Shank diameter	3 inches
Wall thickness	0.142 inches
Warranty	20-year limited warranty
Quality	Patented body formed from a single steel pipe Continuous spiral thread around shank Forged chisel-tip for insertion into soil, including rock



Design capacities

Max down force	12,776
Max up force	9,464
Max lateral force	2,588
Max moment	2,499 lbs – ft.

* The design capacities shown were derived from extensive testing in medium dense soils and include a safety factor of 1.5. The tests were performed to replicate typical loading conditions.

Side view measurements

Outside diameter	3"
Inside diameter	2.7"
Internal adjustment	2.3"
Set screws	3 × 5/8"-11



Length options

Ground screw	Length (mm)	Length (in)	Thread length (mm)	Thread Length (in)	Weight (lbs)	Depth (in)
G 76x1425x600-3x5/8"-11	1425	56.1	600	23.6	22	49
G 76x1600x600-3x5/8"-11	1600	63.0	600	23.6	24	56
G 76x2100x600-3x5/8"-11	2100	82.7	600	23.6	32	76
G 76x2380x600-3x5/8"-11	2380	93.7	600	23.6	36	87
G 76x2600x600-3x5/8"-11	2600	102.4	600	23.6	42	95
G 76x2900x600-3x5/8"-11	2900	114.2	600	23.6	46	107
G 76x2900x1400-3x5/8"-11	2900	114.2	1400	55.1	48	107

Note:

*We recommend that a geotechnical soil composition analysis and an on-site ground screw load test be performed on all projects to determine the most economical screw selection for large-scale projects. The quantity and size of ground screws should be designed to support the structure and all applicable loads, including wind, snow, and other loads. Bending moments in soil were calculated from the application point of the horizontal force when installed with approximately 20 inches of shank exposed.