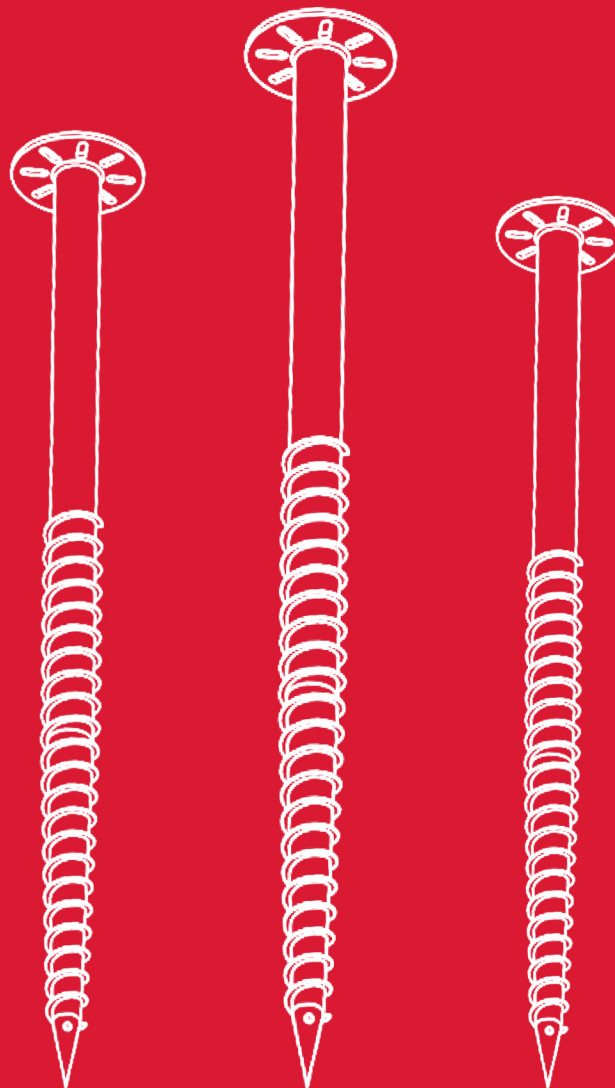




**Smart
Steel
.co.za**

**SMART
ANCHOR**



Smart Anchor – Advanced Soil Screw Anchoring System

Engineered for Strength, Stability and Efficiency

The Smart Anchor soil screw system is designed for high-performance foundation applications, particularly in solar mounting, construction, and structural anchoring. Manufactured from precision-engineered galvanized steel, our soil screws provide exceptional load-bearing capacity, corrosion resistance, and long-term durability in diverse soil conditions.

Allowable Load Capacity (kN) in Various Soil Conditions

Model	Hard Soil	Stiff Soil	Firm Soil	Soft Soil	Very Soft Soil
SP1	16.8 / 20	13.1 / 13	6.9 / 9	3.8 / 4	2.6 / 3
SP2	20.0 / 23	15.6 / 16	8.2 / 10	4.5 / 5	3.1 / 3
SP3	24.8 / 29	19.3 / 19	10.2 / 13	5.6 / 6	3.8 / 4
SP4	32.8 / 38	25.6 / 26	13.5 / 17	7.4 / 7	5.0 / 5
SP5	19.2 / 22	15.0 / 15	7.9 / 10	4.4 / 4	3.0 / 3
SP6	22.9 / 26	17.9 / 18	9.4 / 11	5.2 / 5	3.5 / 4
SP7	28.3 / 33	22.1 / 22	11.7 / 14	6.4 / 6	4.4 / 4
SP8	37.5 / 43	29.3 / 29	15.5 / 19	8.5 / 9	5.8 / 6
SP9	23.9 / 27	18.6 / 19	9.9 / 11	5.4 / 5	3.7 / 4
SP10	28.4 / 32	22.2 / 22	11.8 / 14	6.5 / 6	4.4 / 4
SP11	35.2 / 39	27.5 / 28	14.6 / 17	8.0 / 8	5.4 / 5
SP12	46.6 / 52	36.4 / 36	19.3 / 22	10.6 / 11	7.2 / 7

(Note: Values are presented as Compression Load / Tension Load in kN)

Key Features & Benefits

- High Load Capacity:** Optimized for secure anchoring in various soil conditions.
- Corrosion Resistance:** Constructed with hot-dip galvanized steel for extended durability.
- Easy Installation:** No need for excavation—reducing labor and installation time.
- Versatile Applications:** Ideal for solar ground mounts, fencing, signposts and temporary structures
- Modular Design:** Available in multiple lengths and diameters to suit project-specific requirements.

Applications

The **Smart Anchor** soil screw system is engineered for diverse applications, including:

- ✔ **Solar Ground Mounting** – Secure and reliable anchoring for PV systems.
- ✔ **Structural Foundations** – Ideal for lightweight steel structures.
- ✔ **Infrastructure Support** – Perfect for fencing, signage, and temporary installations.