

Solar Anchoring Kits

Solar Frame Ground Anchors

Overcome pile refusals, support existing foundations and correct misalignment using our fast to install, lightweight and high-performance solar ground anchors.

- **High performance**
Up to 2,750 kg | 6,060 lbs depending on soil type
- **Easy to handle**
Lightweight kits are easy to transport and can be carried by hand on site
- **Undisruptive**
Install with minimal soil disturbance allowing landfill or brownfield to be developed



Product Specification

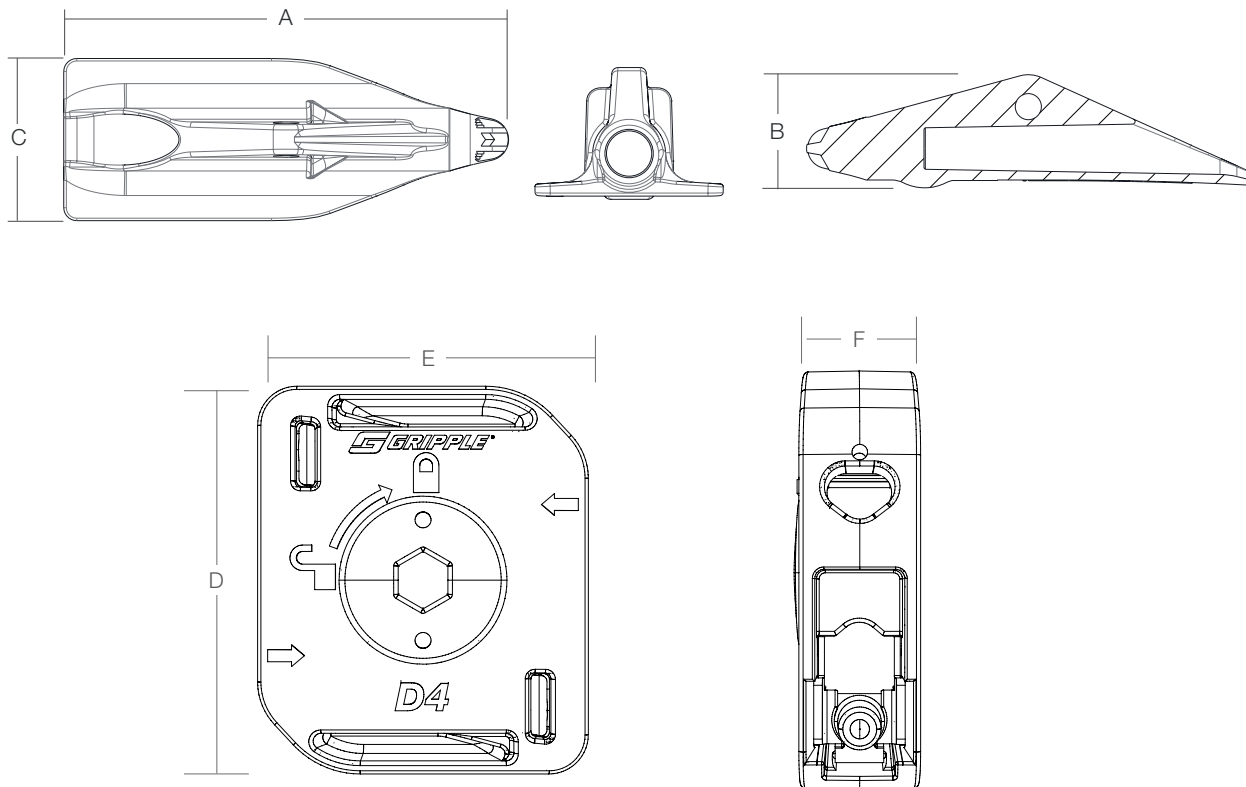
Material

- Anchor head (1250, 1750): Zinc-Aluminium alloy - (ZA)
- Anchor head 2750: Aluminum alloy
- Wire rope: Steel
- Wire rope coating: Zinc aluminium
- Tensioner: Zinc alloy (ZA2)
- Tensioner spring: Stainless steel
- Tensioner end cap: UV stabilised polypropylene
- Tensioner wedge: Sintered ceramic
- Protective tubing: Rubber
- Eyelet: Mild steel - Hot dip galvanised steel

Performance

	1250	1750	2750
Working Load	up to 1,250 kg 2,755 lbs	up to 1,750 kg 3,860 lbs	up to 2,750 kg 6,060 lbs
Wire Tensile Strength (N/mm²)	1770 N/mm² 1305 lb-ft		

Design & Dimensions



Dimensions	1250	1750	2750
A - Anchor length	120 mm 4.72 in	170 mm 6.69 in	260 mm 10.24 in
B - Anchor height	34 mm 1.34 in	43 mm 1.69 in	86 mm 3.39 in
C - Anchor width	41 mm 1.61 in	62 mm 2.44 in	110 mm 4.33 in
D - Dynamic tensioner height	62 mm 2.44 in	62 mm 2.44 in	68 mm 2.68 in
E - Dynamic tensioner width	42 mm 1.65 in	42 mm 1.65 in	52 mm 2.05 in
F - Dynamic tensioner depth	14 mm 0.55 in	14 mm 0.55 in	18 mm 0.72 in
Anchor surface area	39 cm ² 6 in ²	84 cm ² 13 in ²	191.3 cm ² 29.6 in ²
Standard anchor tendon lengths	1 m - 1.5 m	1 m - 1.5 m	1 m - 5 m
Anchor tendon cable diameter	3 mm 1/8 in	6 mm 1/4 in	8 mm 5/16 in
Sling cable diameter	6 mm 1/4 in	6 mm 1/4 in	8 mm 5/16 in

Packaging (1.0 m | 3.2 ft)

	1250	1750	2750
Item weight	0.93 kg 2.05 lbs	1.22 kg 2.68 lbs	2.0 kg 4.40 lbs
Box quantity	4	4	2
Box weight	3.80 kg 8.38 lbs	4.94 kg 10.90 lbs	4.0 kg 8.80 lbs

Packaging (1.5 m | 4.9 ft)

	1250	1750	2750
Item weight	0.97 kg 2.14 lbs	1.24 kg 2.73 lbs	2.1 kg 4.63 lbs
Box quantity	4	4	2
Box weight	3.90 kg 8.60 lbs	5.05 kg 11.13 lbs	4.2 kg 9.23 lbs

Technical

	1250	1750	2750
Kit contents	1x Anchor head & tendon 1x Fused wire rope sling 1x Dynamic tensioner 1x Release key 1x Hex key 1x Accessory (Eyelet or hose)		
Working load	up to 1,250 kg 2,755 lbs	up to 1,750 kg 3,860 lbs	up to 2,750 kg 6,060 lbs

Anchor and guy wire specifications	3 mm 1/8 in	4 mm 5/32 in	6 mm 1/4 in	8 mm 5/16 in
Wire tensile strength	1,770 N/mm ² 1,305 lb-ft	1,770 N/mm ² 1,305 lb-ft	1,770 N/mm ² 1,305 lb-ft	1,770 N/mm ² 1,305 lb-ft
Wire construction	1x19	1x19	1x19	1x19
Coating	ZAL coating to BS EN 10244 class B	ZAL coating to BS EN 10244 class B	ZAL coating to BS EN 10244 class B	ZAL coating to BS EN 10244 class B

Maximum Anchor Performance

	1250	1750	2750
Install depth 1.0 m 3.2 ft			
Very loose	105 kg 230 lbs	197 kg 430 lbs	612 kg 1,340 lbs
Loose	173 kg 380 lbs	315 kg 690 lbs	963 kg 2,100 lbs
Medium dense	487 kg 1,070 lbs	796 kg 1,750 lbs	2,503 kg 5,500 lbs
Dense	1,184 kg 2,605 lbs	1,548 kg 3,405 lbs	2,750 kg 6,060 lbs
Very dense	1,250 kg 2,755 lbs	1,750 kg 3,860 lbs	2,750 kg 6,060 lbs
Install depth 1.5 m 5 ft			
Very loose	152 kg 335 lbs	323 kg 710 lbs	918 kg 2,000 lbs
Loose	279 kg 615 lbs	534 kg 1,175 lbs	1,444 kg 3,185 lbs
Medium dense	845 kg 1,860 lbs	1,525 kg 3,350 lbs	2,750 kg 6,060 lbs
Dense	1,250 kg 2,755 lbs	1,750 kg 3,860 lbs	2,750 kg 6,060 lbs
Very dense	1,250 kg 2,755 lbs	1,750 kg 3,860 lbs	2,750 kg 6,060 lbs
Install depth 2.0 m 6.6 ft			
Very loose			1,224 kg 1,760 lbs
Loose			1,926 kg 3,500 lbs
Medium dense			2,750 kg 6,060 lbs
Dense			2,750 kg 6,060 lbs
Very dense			2,750 kg 6,060 lbs

*Data shown in the table is an estimation of anchor capacity.

Installation

1



Insert tip of drive rod in to the anchor.

2



Push the PV Anchor in to the surface of the ground at prescribed location.

3



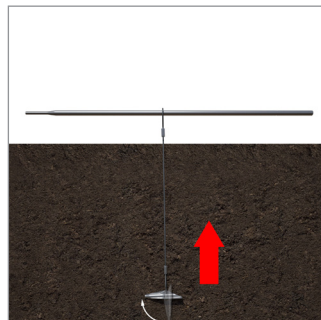
Turn on and position the GPD (or Breaker) onto the other end of the drive tool, set the GPD/Drive Rod at the required angle before driving the PV Anchor in to the ground.

4



Drive the PV Anchor. Once required depth is achieved, remove GPD (or Breaker) from drive rod.

5



When PV Anchor is at desired depth, use JackJaw to remove drive rod (can also be done by hand in softer ground) before using JackJaw and Anchor set tool to load lock PV Anchor.

6



Take the supplied wire sling and add the protective tubing to the loose end of the wire.

7



Using the supplied sling connect your fixing point to the frame (using the choke or direct fixing method).

8



Add the dynamic to the fused end of the sling, roughly 0.5 m from the ground. (To make any adjustments, use the supplied flag key).

9



Feed the fused wire through the anchor thimble and back through the dynamic tensioner. Pull hand tight leaving min. 150mm tail wire to remove as much slack as possible.

Installation

10



Using the Gripple Torq Tool, apply 100kgf via the tail wire.

11



Cut any excess wire.

12



Using the hex key supplied, turn the central lock 90° to complete the installation.