



ALUMINIUM GARDEN SPIKE

PRODUCT INFORMATION AND INSTALLATION BROCHURE



Introduction

Our Aluminium Garden Spikes are made from high grade solid aluminium rods and are 18” in length and are useful for anchorage in garden or planter areas where there is packed soil. Aluminium Garden Spikes provide an economical solution to securing your safety cover. Aluminium Garden Spikes work in much the same fashion as Pipe Anchor Assembly. However, they differ in that the Garden Spikes are less expensive and do not require the use of Brass Anchor and the Spring is attached directly to them.

Long functional life and endurance

Our Garden Spikes are made from high quality solid aluminium to provide excellent strength in withstanding lateral force without deformation, ensuring long functional life and endurance.

Easy installation and removal

Aluminium garden spike can be easily installed by hammering into garden, planter or lawn areas and can be taken out during summer for reuse in next winter or they can remain concealed.

Corrosion resistance

Our Aluminium Garden Spikes are made from non-corrosive aluminium material thus suitable for use in planter area where it might remain in contact with water through out its life.

Quality

For manufacturing these products, we bring into process raw materials of high grade and are processed to give a shape in best industrial conditions.

Packing options

Number of customized packing options are available including vacuum formed plastic trays or individual wrapping.

INSTALLATION OF ALUMINIUM GARDEN SPIKE

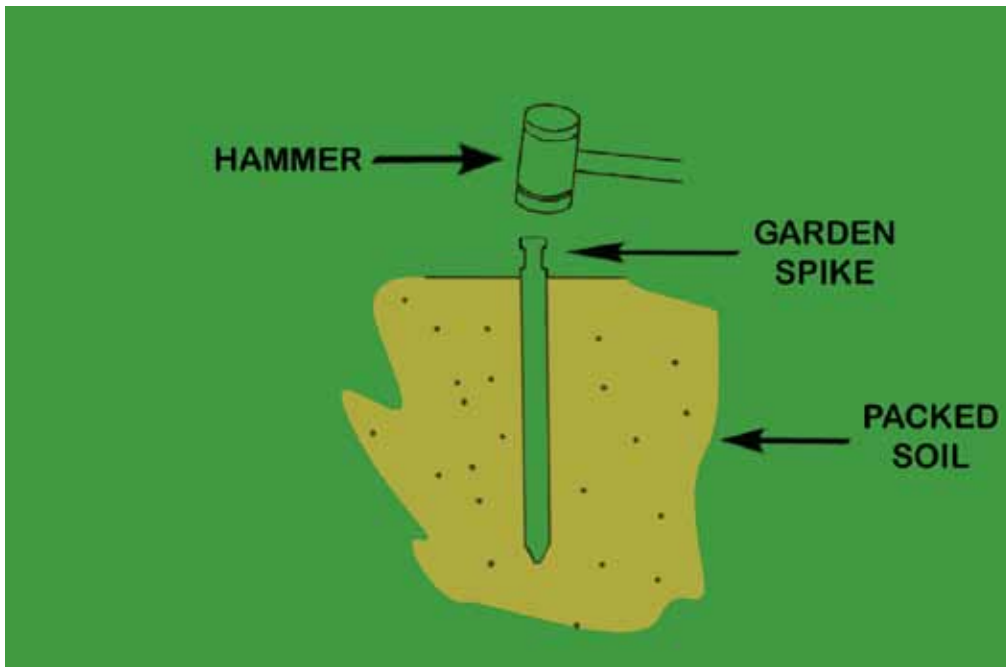
IMPORTANT:

It is very important to determine and mark the exact location for Installation of Aluminium Garden Spike before installation procedure begins. This product brochure gives information only on how to best install Aluminium Garden Spike in garden or planter areas. For choice of appropriate anchor device and determining and marking the exact location for installation of this product, please refer to the installation manual that came with your swimming pool safety cover or ask your swimming pool safety cover provider or manufacturer for the same. For additional general guidance on installation of swimming pool safety cover you can download our swimming pool safety cover installation guidance pdf from our download section. Suzy International holds no responsibility for Guarantee or Warranty voidance due to improper installation of your swimming pool safety cover or any other possible reasons that affects you Guarantee or Warranty, and also any other consequences arising during or after installation of your swimming pool safety cover. Information provided here by Suzy International is with sole intention to demonstrate different ways of installation of swimming pool safety cover hardware and Suzy International has nothing to do with Guarantee or Warranty policy of individual companies selling swimming pool safety cover. Please refer to Disclaimer of Suzy International before beginning installation procedure of you swimming pool safety cover.

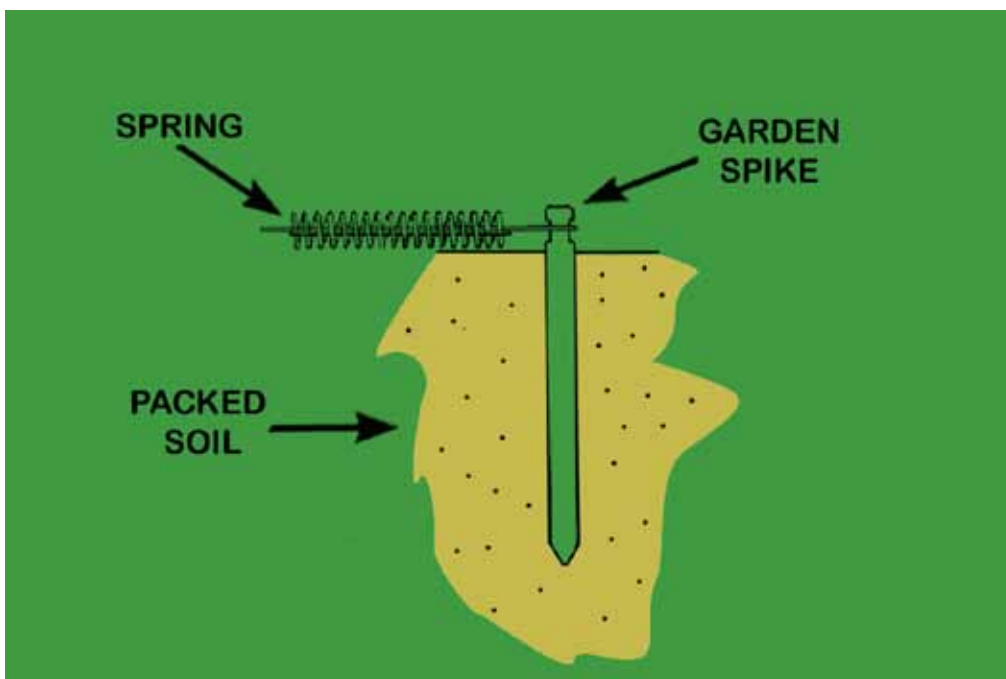
TOOLS REQUIRED FOR INSTALLATION

- Hammer

Follow your normal installation sequence and determine and mark the exact locations for installation of Aluminium Garden Spike. Drive the Aluminium Garden spike into the ground in place of anchor by hammering.

**NOTE:**

Aluminium Garden Spikes have less holding power compared to conventional anchors as they are inserted in packed soil area and hence they do not provide the same degree of safety as a standard anchor. Suzy International recommends that they should not be used for more than 20% of the anchoring points around a pool. Garden Spike should also never be placed at opposite ends of the same strap.



GENERAL INFORMATION ABOUT MOST COMMONLY USED MATERIALS BY SUZY INTERNATIONAL FOR MANUFACTURING ALUMINIUM GARDEN SPIKE

(Customer ordering large quantities can choose any one material type from below or specify any specific material requirements at the time of ordering)

ALUMINIUM ROD:

Material Types: 6000 Series Aluminium Alloy
Type 6063

Material Group: Aluminium Rode

Aluminium Rod Description:

Our Aluminium Garden Spikes are manufactured from 6000 Series Aluminium Alloy, Type 6063. Alloys in this group contain Silicon and Magnesium in approximate proportions to form magnesium silicate. This alloy is commonly referred to as an architectural alloy. It is normally used in intricate extrusions. It has a high quality surface finish and high resistance to corrosion on surface exposed to the atmosphere. Type 6063 Aluminium generally do not require any protective or decorative coating; the surface supplied is entirely adequate without further finish. It is also resistant to stress-corrosion cracking and can be easily anodized by an electrolytic passivation process which increases corrosion resistance and wear resistance. Anodizing also prevents galling of components.

Chemical Composition

Component	Wt %	Component	Wt %	Component	Wt %
Al	Max 97.5	Mg	0.45 - 0.9	Si	0.2 - 0.6
Cr	Max 0.1	Mn	Max 0.1	Ti	Max 0.1
Cu	Max 0.1	Other, each	Max 0.05	Zn	Max 0.1
Fe	Max 0.35	Other, Total	Max 0.15		

Composition Notes:

Aluminum content reported is calculated as remainder.
Composition information provided is not for design.

Other impurities do not preclude the possible presence of other unnamed elements. However, analysis shall be regularly made only for the alloying elements listed in the table. The major element that is not analyzed shall be determined by difference between the sum of those elements analyzed and 100 percent. By agreement between the manufacturer and the purchaser, the limits may be established for elements not specified and analysis done.

Typical Physical Properties

Physical Properties	Metric	English	Comments
Density	2.7g/cc	0.0975 lb/in ³	AA; Typical

Typical Mechanical Properties

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	73	73	AA; Typical; 500g load;10mm ball
Hardness, Knoop	96	96	Converted from Brinell Hardness Value
Hardness, Vickers	83	83	Converted from Brinell Hardness Value
Ultimate Tensile Strength	241Mpa	35000psi	AA, Typical
Tensile Yield Strength	214Mpa	31000psi	AA, Typical
Elongation at Break	12 %	12 %	AA, Typical; 1/16in.(1.6mm) Thickness
Modulus of Elasticity	68.9Gpa	10000ksi	AA, Typical;Average of tension and compression. compression moduls is about2 % greater than tensile modulus.
Ultimate Bearing Strength	434Mpa	62900Psi	Edge Distance/pin dia=2.0
Bearing Yield Strength	276Mpa	40000Psi	Edge Distance/pin dia=2.0
Poisson's Ratio	0.33	0.33	
Fatigue Strength	68.9Mpa	10000psi	AA;500,000,000cycles completely reversed stress; RR Moore Machine/Specimen
Machinability	50 %	50 %	0-100 Scale Of Aluminum Alloy
Shear Modulus	25.8Gpa	3740ksi	
Shear Strength	152Mpa	22000psi	AA; Typical

Material Notes:

Data points with the AA note have been provided by the Aluminum Association, Inc. and are NOT FOR DESIGN.

Disclaimer

some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. All materials specifications are provided for general reference purposes only. Material specification or composition may vary or be subjected to change without prior notice. This information is provided “as is” and Suzy International makes no warranty of any kind with respect to the subject matter or accuracy of the information contained herein. Suzy International specifically disclaims all warranties, expressed, implied or otherwise, including without limitation, all warranties of merchantability and fitness for a particular purpose. In no event shall Suzy International be liable for any special, incidental, indirect or consequential damages of any kind or any damages whatsoever resulting from loss of use, data, profits, whether or not advised of the possibility of damage, and on any theory of liability, arising out of or in connection with the use of the information contained herein. This publication may include technical inaccuracies or typographical errors. Changes may be periodically made to the information herein.

Custom Aluminium Garden Spike Design:

Alluminium Garden Spike design considerations are numerous. Our Engineers can assist you in your design efforts if you just provide a few basic design parameters.

To request for exact dimensions or technical information for this product, please contact:
techinfo@suzyinternational.com

Suzy International provides following additional services to their customers as a routine:

- Suzy International is a manufacturer and hence apart from our standard products, we can also customized and provide product according to our customer's specification and design.
- We provide customized labeling on product as well as on packaging and we have different packing options with standard size wooden pallet for handling and storage efficiency.
- We have a team of highly qualified engineers and technical staff that provides technical support to our customers in developing new product or designs.
- We have a dedicated team that gives you prompt response regarding any issue arising while the product is in the manufacturing process, or in transit or even after delivery.
- We have varied shipping options in order to cater to the customer's specific transportation needs – from our factory to customer's desired destination.

Suzy International assures complete peace of mind for their customers, by handling virtually all the parameters and aspects – right from customer placing an order to receipt of finished goods at customer's end.

OUR PRODUCTS

BRASS ANCHORS

Standard Concrete Brass Anchor
Single Knurling Concrete Brass Anchor
Double Knurling Concrete Brass Anchor
Single Twist Pop-up Concrete Brass Anchor
Wood Deck Brass Anchor

DRAWBAR COMPRESSION SPRINGS

Heavy Duty Large Spring
Heavy Duty Small Spring
Medium Duty Large Spring
Medium Duty Small Spring
Heavy Duty Double Coil Spring
Medium Duty Double Coil Spring

ALUMINIUM GARDEN SPIKE/STAKES

Aluminium Garden Spike

Standard Aluminium Pipe Anchor Assembly

Tapered End Aluminium Pipe Anchor Assembly

Crimped Head Aluminium Pipe Anchor Assembly

MISCELLANEOUS PRODUCTS

S.S. Buckle

Aluminium Cup

D-Ring

Square Ring

Brass Anchor Collar

Small Spring Cover

Large Spring Cover

Double Coil Spring Cover

Large Wall Anchor Bolt

Small Wall Anchor Bolt

Thunder Bolt

Allen Wrench

Temping Tool Standard

Temping Tool Aluminium

Installation Rod

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