

Anchor Base

FOR DECKING, SHEDS AND GARDEN ROOMS

Anchor Base

Anchor Systems have developed a foundation solution that can be easily installed and ideal for small to medium sized structures such as sheds and garden rooms. Our system eliminates the need to use a traditional concrete base and the associated draw backs.

The system can be installed with hand tools or lightweight machinery that can be hire or purchased and allows the installer to continue the build without the need for drying times.

BENEFITS AND FEATURES

Speed

A foundation for an average sized shed or garden room can be completed and made ready in just a couple of hours.

Ease of Installation

Any person with a small amount of DIY knowledge will be able to use this system.

Cost

The Anchor Base system is more cost effective for these types of structures than using a traditional concrete base. The larger structure – the larger the saving over concrete.

Drying Time

There isn't any so the installer can continue building without the need to wait for the concrete base to dry and cure, making the whole process guicker and more efficient to erect.

Mess

There is none. You can drive the Anchor Base without any digging or site disruption.

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Waste Materials

There are none. There will be no wasted aggregate and other wasted building products associated with a traditional concrete base.

Earth Removal

There is none. No need to pay for costly earth removal from the site.

Convenience

This system allows you to move the position of your structure if required or remove it all together without the need to break up concrete.

Green

As concrete isn't being used the Green benefits are obvious. Anchor Bases are manufactured from 60% recycled steel and can be removed and recycled again, if need be. The manufacture and transport of concrete has large negative environmental impact.

Access

All parts and equipment are small and lightweight and can be easily carried to the

build location easily as opposed to a traditional concrete base that would require good access to the site.

Health & Safety

With the use of normal and relevant PPE - the Anchor Base can be installed safely. There is no airborne dust associated with concrete.

Anchor Base - Guidlines

The table below gives you an understanding of the weight carrying capabilities of each Anchor Base. The weight indicated for each of the three ground conditions are approximate and derived from a series of tests Anchor Systems have carried out.

It is up to the installer to interpret this information and judge how many Anchor Bases are needed for any specific application. Point loading and universal displaced loading should be of some consideration.

There are some examples further on in our brochure. If you're not sure and there are any questions, then please call or email us. We are always happy to help.

Poor Ground Conditions	Medium Ground Conditions	Good Ground Conditions
(Loose Fine Sand; Alluvium; Soft-Firm	(Loose to Medium Dense Fine to Course	(Medium Dense Course Sand & Sandy
Clays; varied Clays; Fill)	Sand; Firm to Stiff Clays & Slits)	Gravel; Stim to very Stim Slits & clays
150 kg	200 kg	300 kg







Have any questions? 01342719362

Anchor Base

The design and installation methodology have been specifically designed for lightweight sheds and garden rooms as a quick and cost-effective alternative to traditional installation methods. The Anchor Base installation methodology uses a wooden framework to support the prefabricated floor panel of your shed or garden room.

This is for 3 reasons:

- 1. To distribute the weight evenly across the anchors.
- 2. Allows the shed or garden room to sit directly on wood rather than a surface that will promote degradation.
- 3. Allow the installer to finish the look of the shed with consideration to height and ascetics.

The installation methodology is for an 8ft x 6ft (2400mm x 1800mm) shed. Proposed Anchor positions for other shed sizes and shapes are shown further on.

Note: The positions of the anchors indicated in this documentation are recommendations only and it is the responsibility of the installer to determine the exact positions of the anchors, making sure that the framework is fully supported and that there is no more than 1500mm, centre to centre, between any two anchors.

TOOLS REQUIRED

- 6ft level
- Boat level
- Tape measure
- Hand saw
- Pencil
- Screwdriver
- Hammer / Post rammer
- AB1000 Drive Rod
- Marking spray

MATERIALS REQUIRED

(QUANTITY WILL VARY DEPENDING ON THE SIZE OF SHED)

- 4x2 (100mm x 50mm) wood for framework
- Wood screws
- Anchors



Installation Method

Note: This Installation methodology is a based on a 6x8ft shed base, further specific shed base layouts are available from info@anchorsystems.co.uk

- 1. Build the outside framework with due consideration to ascetics. No internal braces or trimmers should be fitted at this stage, although, you may want to cut as many as is required to size.
- 2. Position the framework exactly where it is required.



3. Using the marking spray, mark the ground on the internal corners of the framework



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Installation Method

Whilst the framework is still in position, measure 350mm from the outer side of the frame-4. work base and 200mm from the front edge of the framework base and mark with spray. Repeat for two centre points of the framework.



5. Remove framework and place out of the way and you should be left with marks on the ground of 4 'L' shaped marks and 6 spots (depending on the size of shed)



Installation Method

6. Using the correct equipment, start to drive the anchors through the spot marks to the required depth making sure that the anchor is driven for another 5 to 10 seconds after the underside of the circular plate has made contact with the ground and has stopped moving any deeper. This will provide the maximum compression force available from the Anchor Base in your specific ground conditions. Exact methodology for driving anchors is documented below.







7. After all the anchors have been driven to the required depth, place the internal corners of the framework in line with the 'L' shaped marks on the ground.



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Hydraulic Breaker

Installation Method

- 8. Place the wooden trimmers across the centre holes of the anchors making sure your frame doesn't move.
- 9. Screw these trimmers in place to the framework.



- **10.** Add timbers as required for robustness of framework normally every 400mm. This task can also be done after task 13 if preferred.
- 11. Shift the framework slightly to allow access to anchors and place the bearing plates into aperture of the anchors.



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Installation Method

12. Place framework on to the bearing plates and line internal corners with 'L' shaped marks.



13. Fix the wooden framework to the bearing plates using wood screws.





Installation Method

14. Check level and adjust bearing plates to achieve a good level in all directions.



15. Start your shed build!



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Anchor Installation

Depending on the hardness of the ground, you may choose to use a hydraulic breaker to speed up the installation process.

FIG 1.



FIG 2.



FIG 3.





- 1. Position the bottom point of the anchor on top of the spot mark on the ground.
- 2. Insert drive rod. (Fig: 1)
- 3. To establish the drive position lift and force the drive rod down into the aperture of the anchor to force the anchor into the ground. (Fig: 2)
- Repeat until the anchor has a firm establishment into the ground and use the boat level and adjust anchor accordingly. (Fig: 3)
- Repeat action using a maul hammer or post rammer if required, until the flat round plate is fully in contact with the ground and is reasonably level. Exact level is not required. (Fig: 4)
- 6. Repeat for all anchors.

FIG 4.



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Note: The positions of the anchors indicated in this documentation are recommendations only and it is the liability of the installer to determine the exact positions of the anchors, making sure that the framework is fully supported and that there is no more than 1500mm, centre to centre, between any two anchors.

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8 x 6 - (2400 x 1800mm)



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ABK - 2

8 x 8 - (2400 x 2400mm)

8 x 7 - (2400 x 2100mm)

200mm 200mm

ABK -2 v2

10 x 8 - (3000 x 2400mm) 10 x 10 - (3000 x 3000mm)

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ABK - 3

12 x 10 - (3600 x 300mm)

12 x 8 - (3600 x 2400mm)





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FOR TECHNICAL ADVICE OR FURTHER INFORMATION PLEASE CONTACT:

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