



HANDI BLOCKS

INSTALLATION GUIDE



FROM THIS...



TO THIS...



IN UNDER AN HOUR!! *with just two people and under \$900 in materials*

Example above is a standard 3m x 3m deck built in 46 minutes from the first Handi Block on the ground through to completion including staining. This project incorporated joists resting directly on 21 Handi Blocks, if bearers were used only 9 Handi Blocks would have been required, reducing overall costs to under \$750.



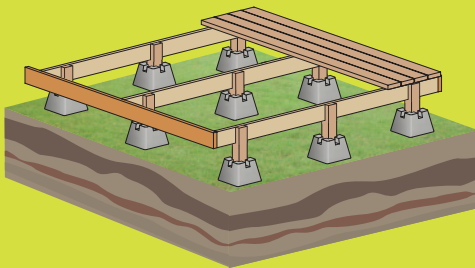
over **10 MILLION** INSTANT FOUNDATION BLOCKS sold worldwide every year

NO HOLES TO DIG, NO CONCRETE TO MIX OR POUR!
GREAT FOR DECKS, SHEDS, PLATFORMS, RAISED WALKWAYS & MORE

About Handi Block

Since the inception of Deck Blocks in 1988 in the USA, instant foundation blocks have been the preferred method for creating a strong and stable foundation for many professional & DIY projects worldwide. The concept has literally revolutionised the way we look at deck & raised platform construction, with millions of projects completed each year using the system.

Evolve Composites opened the first Australian Evo-Crete factory in Brisbane in August 2010 and already many projects have been constructed throughout Australia using the simple, fast, and trusted Handi Block instant foundation system. Handi Blocks are an extremely popular alternative to digging holes, mixing concrete and waiting hours or even days for it to set before being able to complete a project. Additionally, as Handi Blocks are made from Evo-Crete, each Handi Block weighs approximately 8kg making construction of any project a breeze.

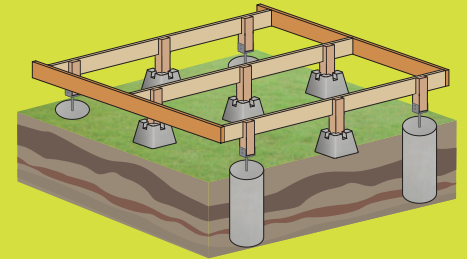


Typical Installation

Posts are only required on unlevel ground or where an elevated platform is desired. Typically joists can be installed directly on Handi Blocks for low level structures. Handi Blocks are also a great instant foundation for any plans that incorporate fixing joists to bearers.

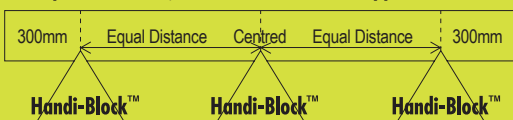
Optional Tie Down Installation

Should you wish to tie down your project, it is possible to use Handi Blocks in combination with the traditional concrete and steel support method (Handi Blocks become an intermediate support).

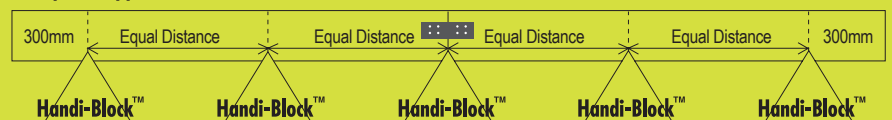


Handi Blocks are not designed for use in structures elevated more than one (1) metre from the ground and should be installed on stable ground (see website for more details). As always, it is recommended to check your local building guidelines before starting any construction - we always suggest you get the thumbs up before starting your project. Handi Blocks are more than just a deck foundation, they are a versatile utility block that can be used for an endless number of applications.

Set-up for 2400mm, 3000mm & 3600mm Support Boards



Set-up for Support Boards End to End



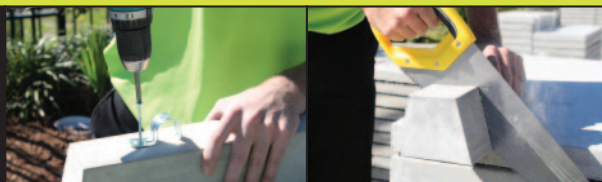
Maximum 1.5m spacing between Handi Block piers.

Supports 780kg per block, each block weighs approximately 8kg.

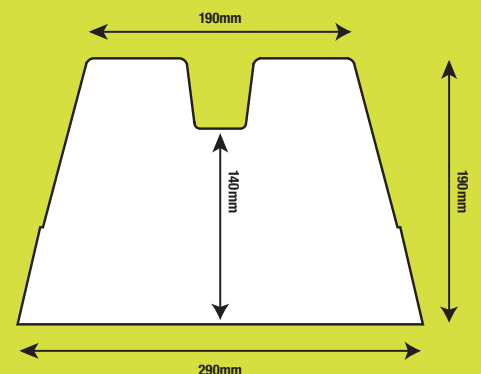
Designed to accept 35mm to 100mm* joists or bearers and 90mm² & 100mm²* posts

Working with Evo-Crete

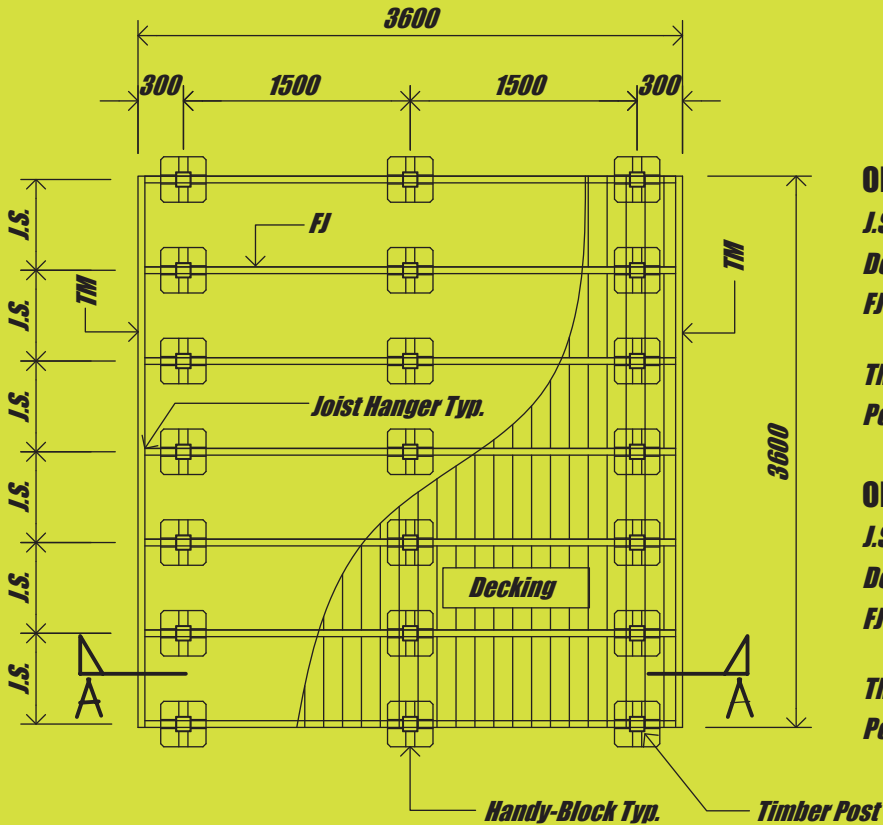
Evo-Crete Handi Blocks can be easily fabricated and modified with basic hand or power tools.



* For joists and bearers wider than 35mm and posts larger than 90mm simply modify the Handi Block in a matter of seconds using a standard timber handsaw or chisel, for more information please visit www.evolvegrp.com



Handi-Block Floating Foundation Engineering Specifications



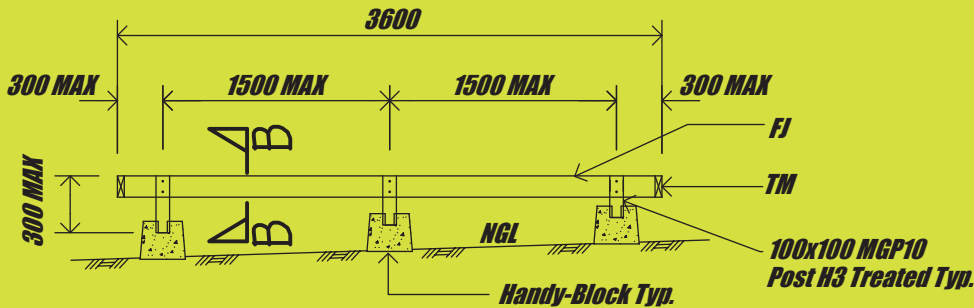
OPTION 1

- J.S.** Joist Spacing = 450mm (Centres)
- Decking** 90x22 H3 Treated Pine
- FJ** 120x45 MGP10 H3 Treated Floor Joists @ 450 CRS (Continuous)
- TM** 120x45 MGP10 H3 Treated Trimmer
- Post** 100x100 MGP10 H3 Treated

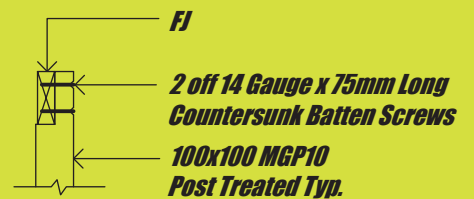
OPTION 2

- J.S.** Joist Spacing = 600mm (Centres)
- Decking** 90x35 H3 Treated Pine
- FJ** 140x45 MGP10 H3 Treated Floor Joists @ 600 CRS (Continuous)
- TM** 140x45 MGP10 H3 Treated Trimmer
- Post** 100x100 MGP10 H3 Treated

Section A-A



Section B-B



GLOSSARY

J.S. - Joist Spacing **FJ** - Floor Joists **TM** - 120x45 MGP10 H3 Treated Trimmer

NOTE: The above deck system is only suitable to construct on site class of A, S & M with compacted soil surface. Verify with your local building department before starting any construction.

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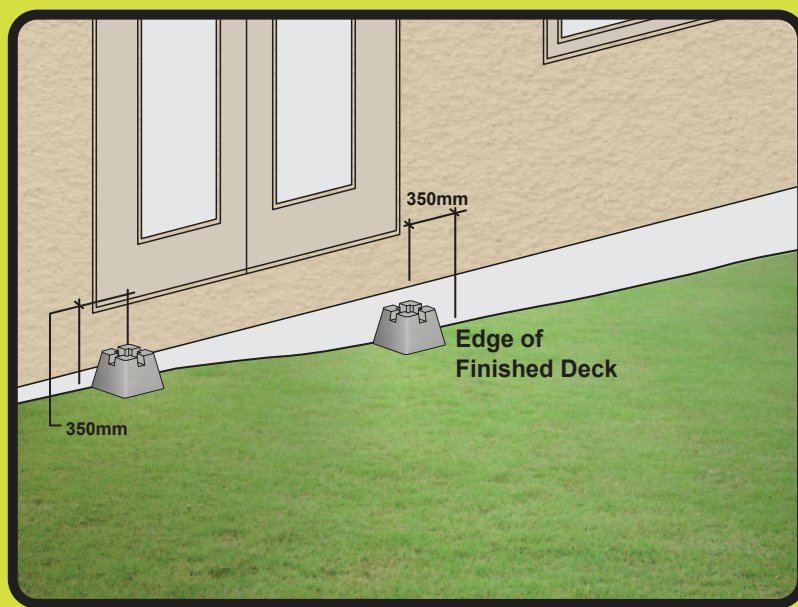
CERTIFIED :			
CLIENT EVOLVE COMPOSITES PTY LTD			
SCALE	DRAWN D.LAO	DESIGNED N.M.	CHECKED N.M.

JOB DESCRIPTION	
FLOATING FOUNDATION & DECK SYSTEM	
DRAWING TITLE	
DECK SYSTEM LAYOUT & DETAILS	
DRAWING No.	QII-225-01
DATE :	JUN.2011

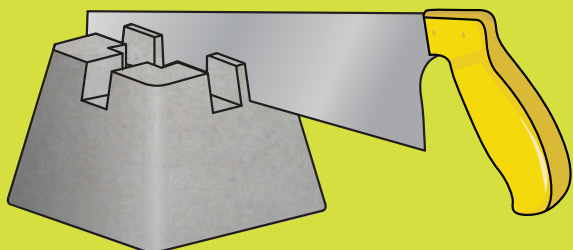
STEP 1 - PLACE THE TWO CORNER HANDI-BLOCK PIERS CLOSEST TO AN EXISTING STRUCTURE.

Place the Handi-Blocks directly on the ground. If the ground is sloped, remove top soil from directly underneath the block until the block sits level. If the deck is going to be an extension of an existing structure, then the blocks should be as close to the structure as possible. Using the plan on the previous page, ensure the blocks are correctly spaced. The outside edge of the finished deck will extend out past the center of the Handi-Block piers by 350mm on both sides.

Don't spend an excessive amount of time leveling the Handi-Block piers. The block can be leveled with only your eye. Any slight difference will be made up with the 90x90mm post. However, you want to make sure the Handi-Block piers are sitting FLAT. You do not want any rocking of the piers on the ground.



NOTE: If you intend on using joists or support beams 45mm or wider, simply modify the width of the gap in the top of the Handi-Block by cutting a wider gap with a standard timber handsaw. This modification will only take a matter of seconds and a few strokes of the handsaw to get a perfect fit.

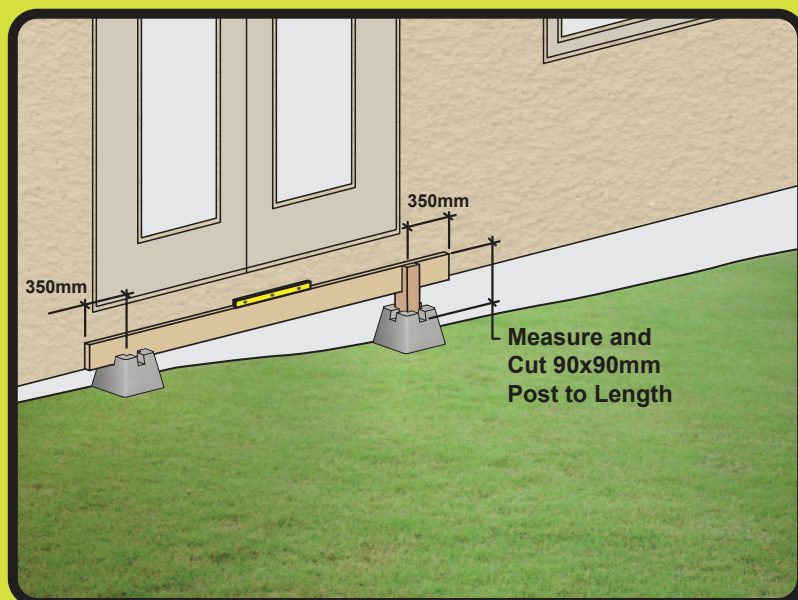


STEP 2 - LEVEL THE FLOOR JOIST.

Locate the highest Handi-Block pier. Position a floor joist in or above this first block to your desired height. If the entire deck will be elevated, you will need to have a 90x90mm post in the first Handi-Block.

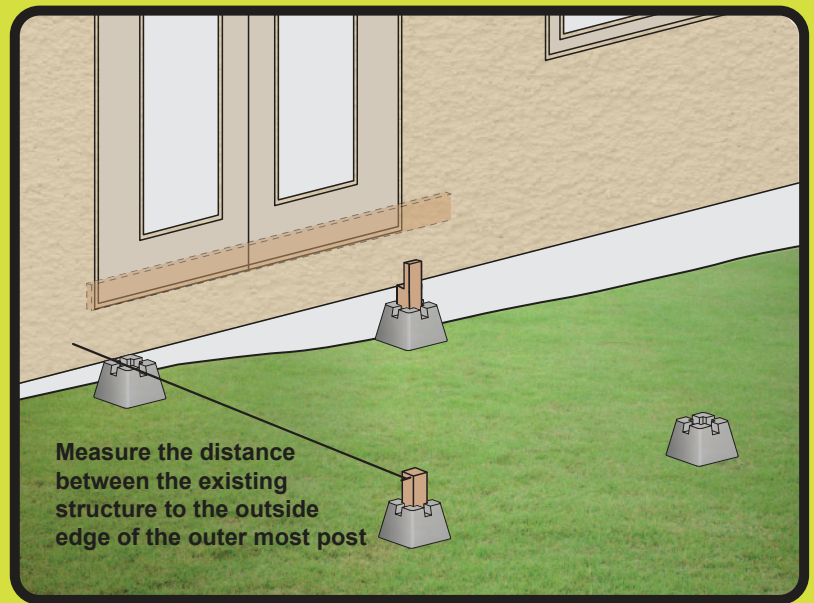
Place a floor joist in the slot of the Handi-Block pier or on the 90x90mm post and extend over the second corner Handi-Block pier. Now, using a level on top of the floor joist, measure the distance from the top of the floor joist to the bottom of the pocket in the Handi-Block pier. Next cut a 90x90mm post to length allowing for B-B and position the floor joist on top. Make sure to verify that the floor joist is level. Do not attach the floor joist to the 90x90mm post yet.

If the entire deck is to be elevated you will first need to establish the height of the first 90x90 post, once this is completed continue following the directions above.



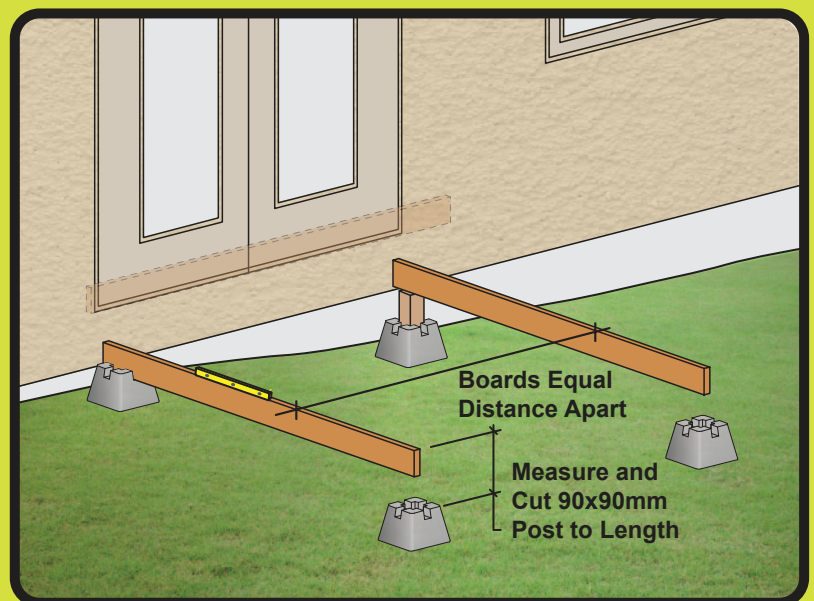
STEP 3 - POSITION AND LEVEL REMAINING CORNER HANDI-BLOCK PIERS.

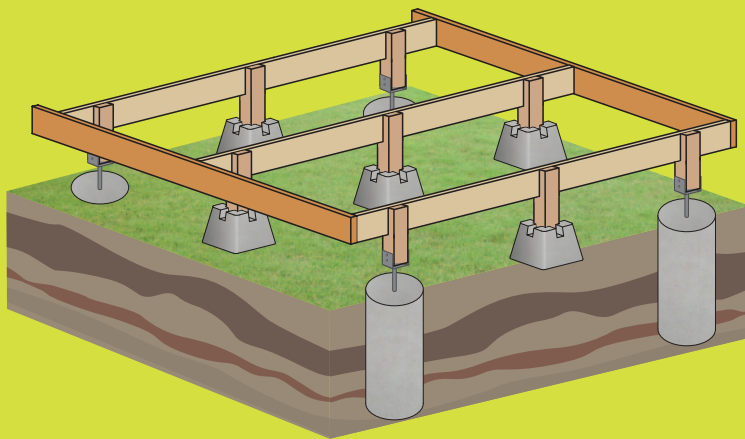
If building off an existing structure, measure from the structure to the outside edge of the post. (For example: If the deck will be 3 metres deep, position the block so that the outside edge of the post is 3 metres from the structure. Do NOT use the first row of blocks as a measuring reference. Use the same width between the Handi-Block piers as the first row.



STEP 4 - POSITION AND LEVEL REMAINING CORNER HANDI-BLOCK PIERS.

Next, remove the first floor joist closest to the structure. Temporarily position a trim board on top of the first row's 90x90mm post or block, and extend it to the outside corner block. Using a level on top of the trim board, measure the distance from the top of the trim board to the bottom of the pocket on the Handi-Block pier. Cut a 90x90mm post to length. Verify the trim board is level. When level, remove the trim board and repeat for opposite the side.



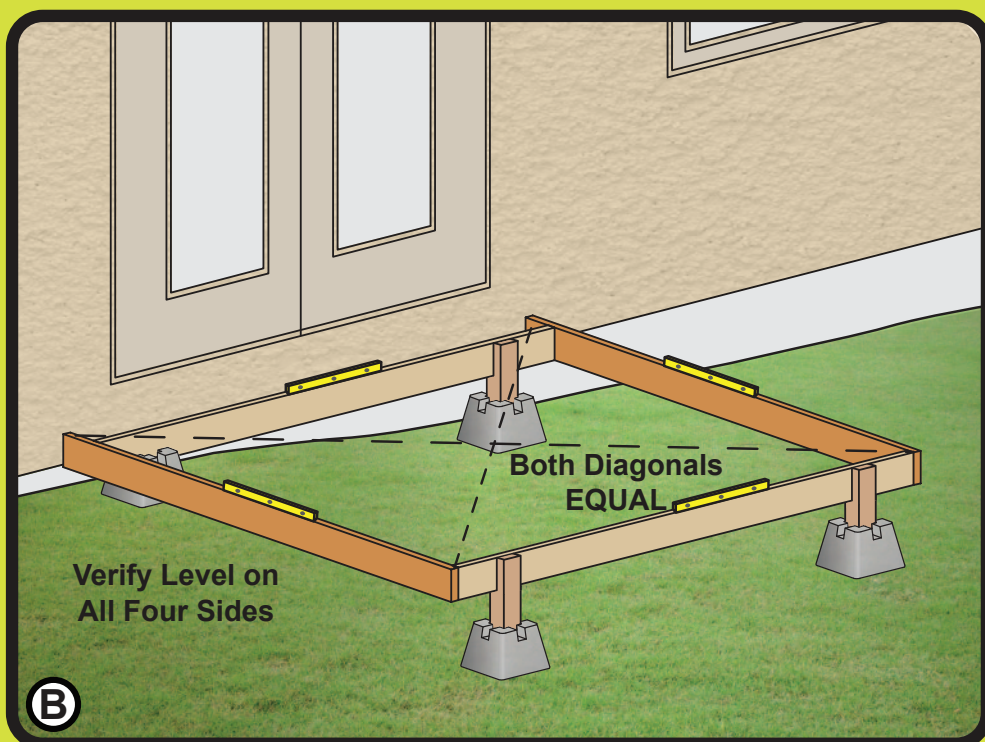
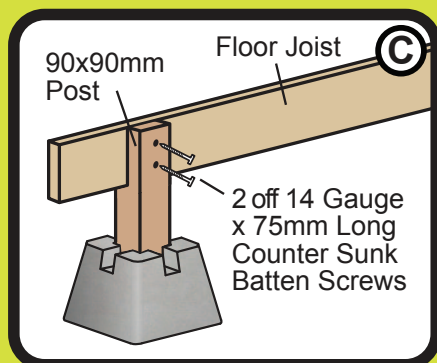
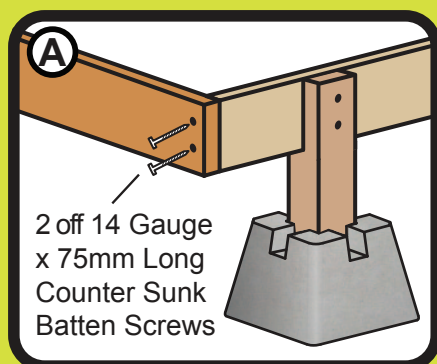


OPTION FOR WIND LOAD AREAS

In applications where it is desirable to provide a tie down to a structure, it is possible to replace certain components of the floating foundation system with a conventional concrete post & steel support.

STEP 5 - SQUARE THE FRAME.

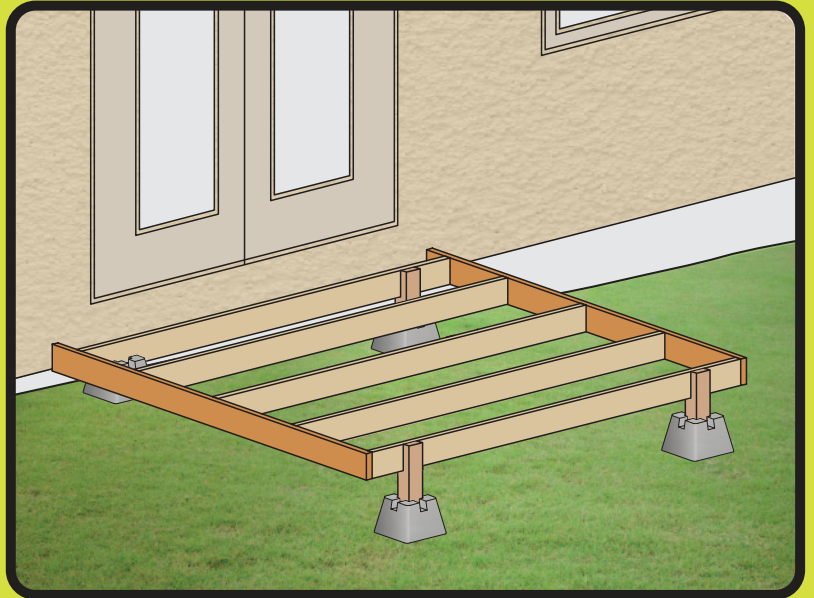
- A) Place a floor joist on top of each row of Handi-Block piers. Attach the trim boards to floor joists using two 75mm counter sunk batten screws at each connection. Using a level as a guide, ensure that both trim boards and both floor joists are level. See Fig. A
- B) Next, measure the diagonal distance from opposite corners. Adjust the outside floor joists and Handi-Block piers until the diagonal distance between opposite corners is EQUAL.
- C) After the deck is square and level in all four directions, attach the floor joists to the 90x90mm posts using two 75mm counter sunk batten screws. See Fig. C



NOTE: The trim boards will extend past the floor joists upto the existing structure. Leave a 3mm to 13mm gap between the trim board and the structure. This is not shown on our standard plans.

STEP 6 - ATTACH REMAINING FLOOR JOISTS.

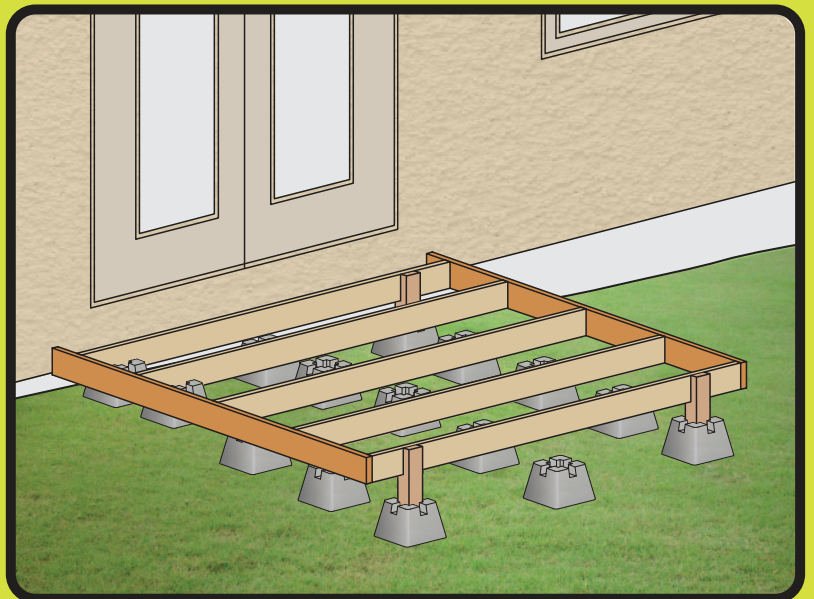
Position and attach the remaining floor joists to the trim boards using two 75mm counter sunk batten screws to attach the floor joist to the trim board.



STEP 7 - POSITION REMAINING HANDI-BLOCK PIERS.

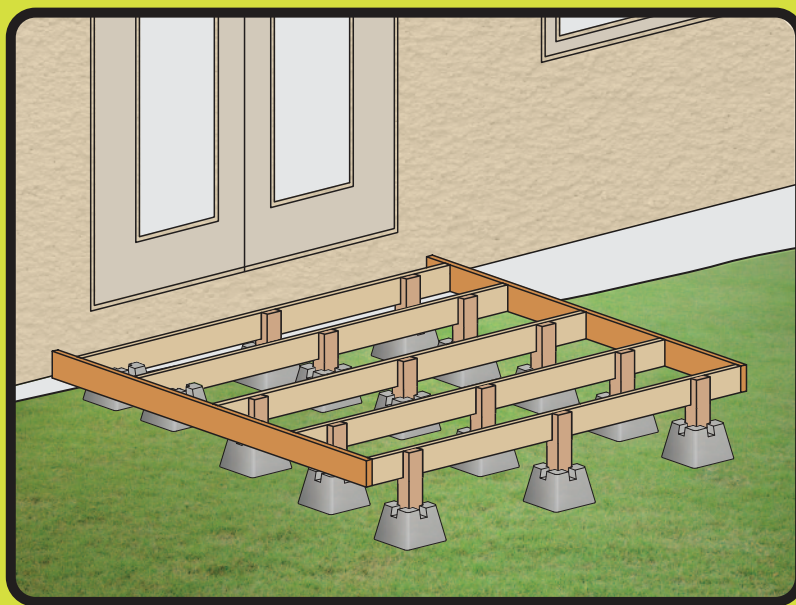
Using the frame as a guide, position the remaining Handi-Block piers directly beneath the frame. The blocks on the perimeter of the deck should be 300mm in from each end.

When positioning the blocks, the dimensions do not need to be exact, however, do not exceed the maximum span of 1.5 metres between blocks, just be sure to have all of the Handi-Block Piers aligned in a straight row and spaced evenly.



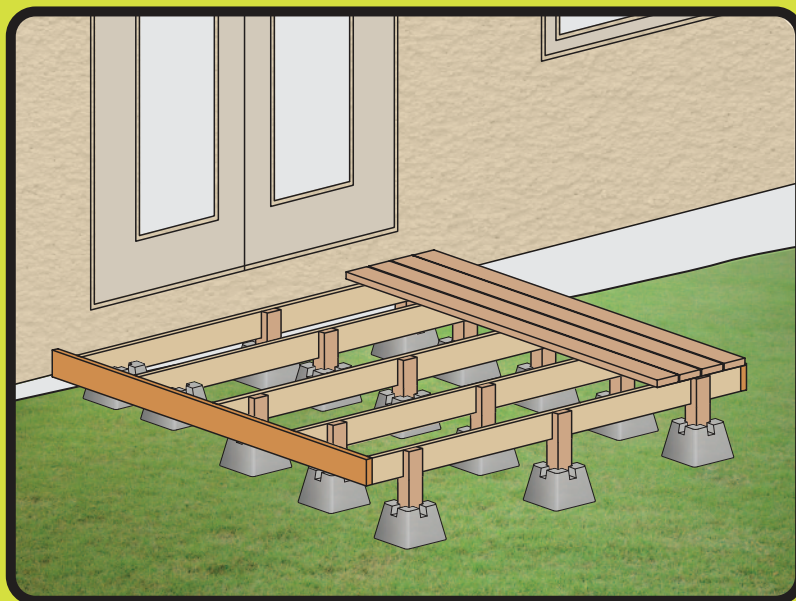
STEP 8 - FILL REMAINING 90x90mm POSTS.

Cut 90x90mm posts to length and position them between the floor joist and the Handi-Block pier. Repeat this step until all 90x90mm posts are cut and positioned. Next, secure all floor joists and 90x90mm posts using two 75mm counter sunk batten screws.



STEP 9 - ATTACH THE DECKING.

Starting from one side of the deck, attach the first decking board so it's flush to the edge of the deck. The decking board will overhang the first floor joist closest to the existing structure. Leave a 3mm to 6mm gap between the end of the decking board and the edge of the structure. Next, secure the remaining decking boards as per manufacturers instructions.



FOR MORE INFORMATION, PLEASE VISIT: www.evolvegrp.com

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