

# BUILDING STRONGER

WITH PPC

HOW TO LAY  
A CONCRETE  
FOUNDATION



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# A STEP-BY-STEP GUIDE TO LAY A CONCRETE FOUNDATION

## TOOLS

Shovel  
Wheelbarrow  
Stiff Bristled Brush or Broom  
Wooden float  
Tape measurer  
Spirit level  
Builder's bucket  
Mortar trowel  
Steel nails  
Wood profiles  
Hammer  
Steel pegs  
Wooden form  
Steel square  
Builder's string line  
Straight-edge

## MATERIALS

PPC SUREBUILD 42,5N cement  
Clean concrete sand  
Clean stone  
Potable water

## SAFETY

Safety shoes (steel toe)  
Overalls  
Gloves  
Dust masks  
Googles

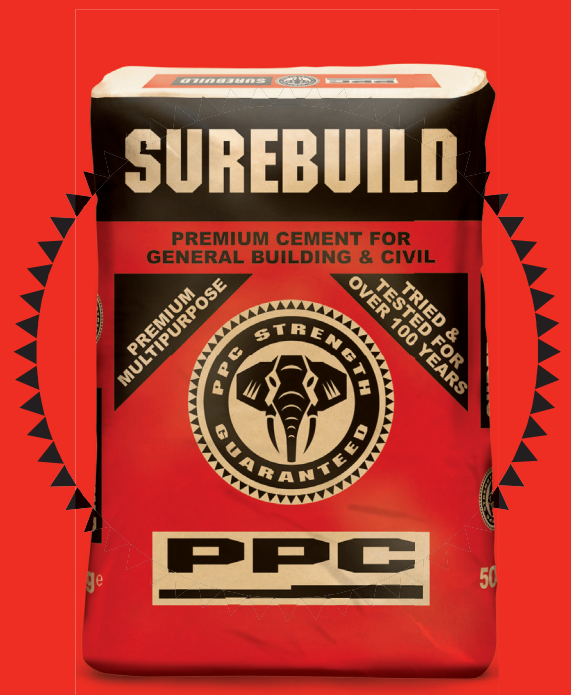
**STEP 1**  
MATERIAL  
QUANTITIES

**STEP 2**  
SETTING OUT

**STEP 3**  
DIGGING  
FOUNDATION

**STEP 4**  
MIXING THE  
CONCRETE

**STEP 5**  
POURING THE  
FOUNDATION



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contact 0800 CEMENT (236 368)  
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# STEP ONE MATERIAL QUANTITIES

1

## CEMENT

50KG PPC SUREBUILD 42,5N BAG



## 19 MM STONE



## SAND



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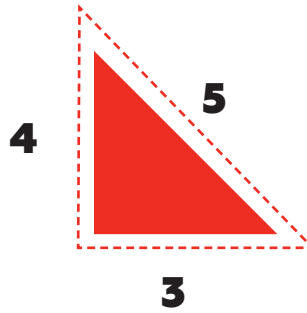
# STEP TWO SETTING OUT

1

Ensure all corners are a perfect square by using a 3, 4, 5 method.

Using builder's string/fishing line, mark the triangle method.

This can be done by measuring 3 meter by 4 meter by 5 meter



## Finally

Check for a perfect square by measuring from to diagonal corners, the measurement must be the same.

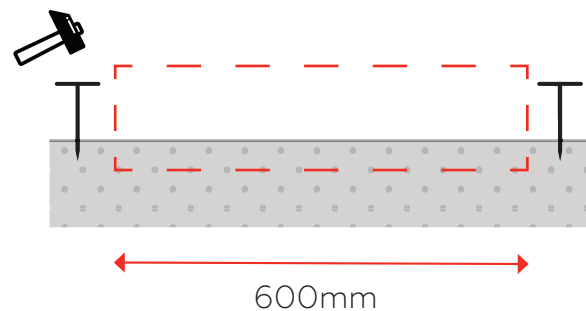
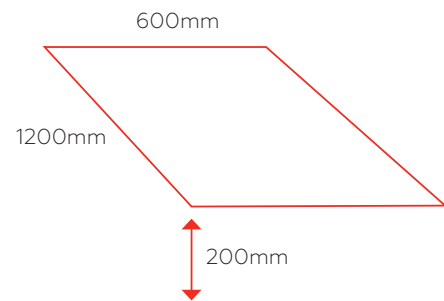
2

For a 600mm X 200mm X1200mm, measure and mark 100mm from inside and 100mm from outside of boundary peg.

Repeat the same on all four boundary points.

Ensure that the measurements are square using the same method as mentioned above.

Adjust boundary pegs if square is not achieved.



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# STEP TWO SETTING OUT

3

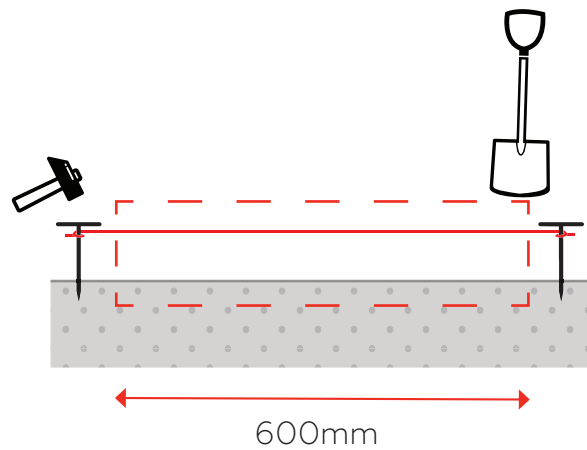
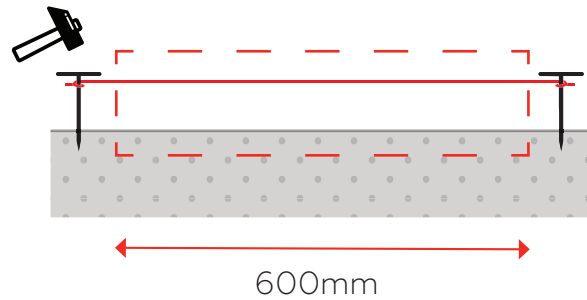
Measure off width of foundation (600mm) at each corner to the required depth.

Attach builder's line on nails knocked into profile from one profile to the opposite profile.

Do this on both sides of the profile.

The width between two parallel lines should be the same size as the foundation width.

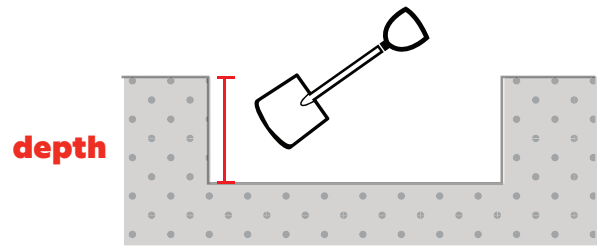
Mark ground under profile lines with a spade.



# STEP THREE DIGGING FOUNDATION

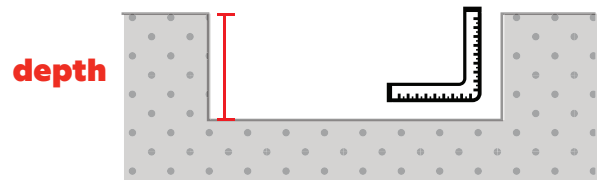
1

After marking the ground, remove profile lines before digging.  
Dig foundation to required depth using a tape measure or stick measure.



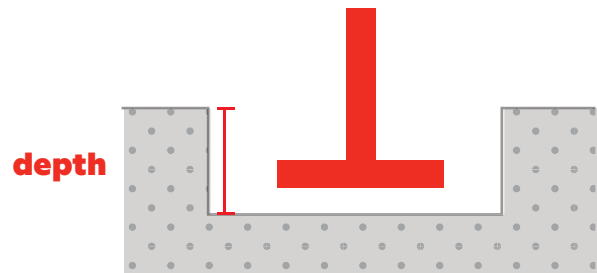
2

Try to make the sides as plumb as possible using a steel square.  
Try to make the bottom as level as possible.



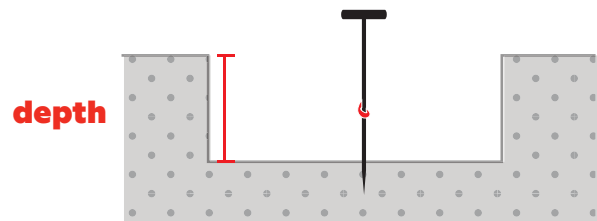
3

Compact the trench.



4

Fix pegs in the trenches to indicate to what level the concrete is to be poured.



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# STEP FOUR MIXING THE CONCRETE

1

Mixing surfaces should be clean from unwanted material (grass, leaves roots (etc.)), if possible, mix on a large flat board with sides.

The surface should be water tight and not absorb a significant amount of water.

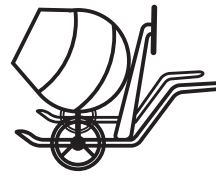
Remove any lumps, stones or foreign material/objects from the sand.

Follow the specifications and mixing proportions on the back of PPC SUREBUILD 42,5 N cement bag.

Pour sand first, making an opening in the middle into which the cement is poured.

Properly mix the sand and cement before adding water. Add the correct amount of water until mix is easy to handle.

Add crushed aggregates and mix continuously whilst adding enough water to give the concrete a desired workability.

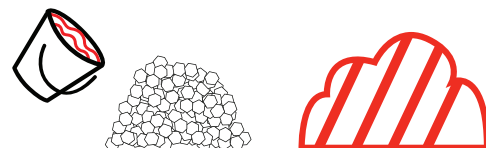


Machine

OR



Wheelbarrow



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# STEP FIVE POURING THE FOUNDATION

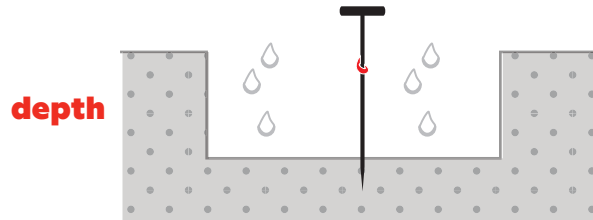
1

Concrete must be placed within 1 hour of mixing.



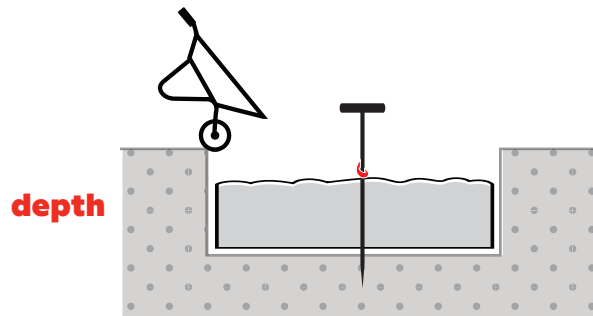
2

Before placing concrete against earth or other materials which may draw water from the fresh mix, wet the area thoroughly, but not so much that there is free water standing where the concrete will be placed.



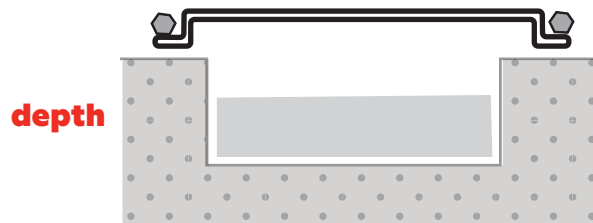
3

Pour the concrete for foundation in one day.  
Pour in concrete to the marked height of pegs.  
Start pouring at the corner furthest from the mixing station.



4

Tamp to compact and level the concrete into the corners with a stick to get rid of air bubbles and spaces. Level the concrete to the top of pegs with a board (straight-edge).



Leave the foundation to as per specifications.

**IMPORTANT NOTE: WHILE ALL INFORMATION IN THE GUIDE IS SUPPLIED IN GOOD FAITH, NO LIABILITY CAN BE ACCEPTED BY PPC AS ACTUAL USE IS BEYOND ITS CONTROL.**

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