

BUILDING STRONGER

WITH PPC

HOW TO
MAKE BRICKS



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A STEP-BY-STEP GUIDE TO MAKE BRICKS

TOOLS

Shovel
Wheelbarrow
Mixer of sorts
Builders bucket
Thick dark plastic sheet
Screen
Good Quality Brick Machine
Wooden Form

MATERIALS

PPC SURECAST 42,5R cement
Aggregates (Natural Sand,
Crusher Sand, 6, 7mm stone, etc)
Potable Water

SAFETY

Safety shoes (steel toe)
Overalls
Gloves
Dust Masks
Googles

STEP 1 AGGREGATE PREPARATION

STEP 2 MIXING MATERIALS

STEP 3 MIX ASSESSMENT

STEP 4 MOULDING THE BRICKS

STEP 5 CURING THE BRICKS

STEP 6 QUALITY CONTROL

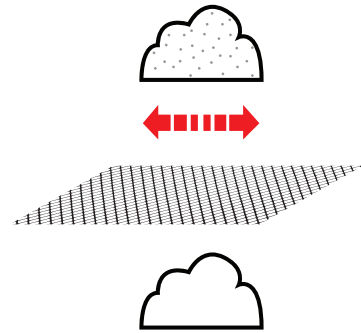
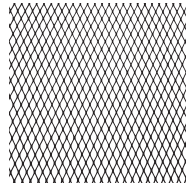


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contact 0800 CEMENT (236 368)
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STEP ONE AGGREGATE PREPARATION

1

Sieve out any contaminants, lumps and stones using a screen.



STEP TWO MIXING MATERIALS

1

Working with full wheelbarrows level to the top, lay the sand on a long thin heap, on a clean, level and hard surface (your mixing slab).

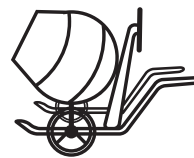
Add PPC SURECAST 42,5R cement on top of the sand in the correct proportions (referrer to PPC bag for brick making guide).

One wheelbarrow = 2 bags of cement) and 8 part aggregate will be used for this exercise (1:8).

Mix PPC SURECAST 42,5R cement and sand until uniform in colour.

Create a hollow in the center and slowly add water while mixing.

Continue with the process until the right amount of water has been added.

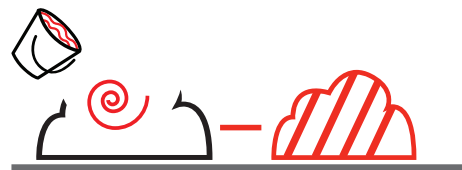
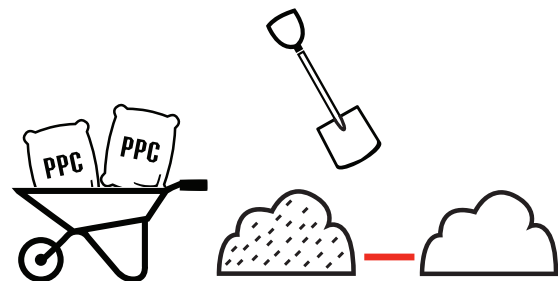


Machine

OR



Wheelbarrow

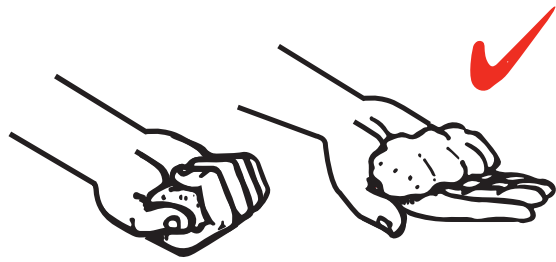


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STEP THREE MIX ASSESSMENT

1

The mix has achieved the correct consistence when it forms a ball when squeezed in your hands.



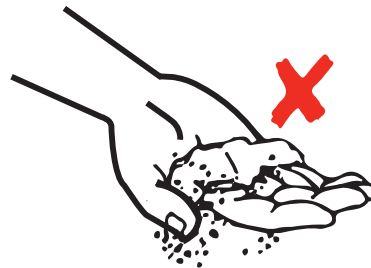
2

If water runs out between your fingers, too much water has been added.



3

If it does not form a ball when squeezed in your hand, the mix is too dry.



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STEP FOUR MOULDING THE BRICKS

Use the manual on the use of your brick making machine, make sure it compacts properly.

1

Sweep the slab clean and then wet.

Fill the brick machine mould with the brick mixture.

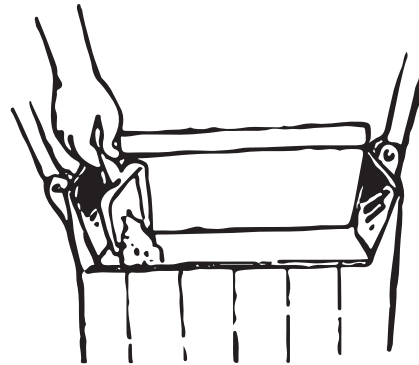
Push the top handles of the machine down to press the mixture into the mould and compact it well.

The machine has a gauge level to ensure the bricks are of a consistent size.

Good compaction increases the strength of the bricks.

Lift the side handle to release and lift the mould.

Move the machine and don't disturb the cast bricks.



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STEP FIVE CURING THE BRICKS

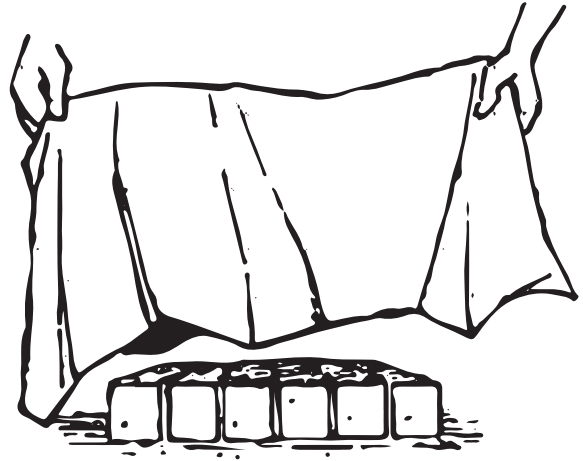
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Once a complete row is cast, cover the bricks immediately with dark plastic sheet to keep them damp and shield them from the sun and wind.

Only after 24 hours can the bricks be moved to the stacking area to be stacked.

Stacks should be carefully built to avoid chipping edges and corners.

The stockpiled bricks should be kept covered and damped for another 7 days to cure and gain strength.



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STEP SIX QUALITY CONTROL

1

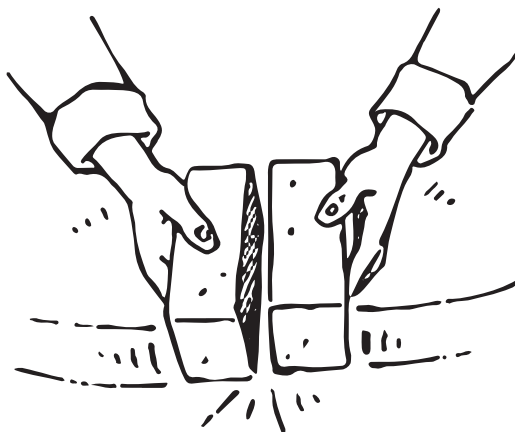
Some aspects that should be monitored to ensure quality masonry units: strength and dimensions.

Strength

Quality of bricks/blocks should be controlled so that strengths are adequate (to avoid breakages and rejection by customers) and mixes are as economical as possible.

Dimensions

The length and width of the units are determined by the mould and will not vary greatly. The height can vary and should be monitored using a simple gauge when compacting. Units of inconsistent height will lead to difficulties in the construction of masonry and possible rain penetration.



STEP SEVEN PACKING SEQUENCE

1

"FIFO" rule (**F**irst **I**n **F**irst **O**ut) can be applied when stocking bricks on site. This will ensure that older bricks which should have developed more strengths will be the first to leave the site.

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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