

making

THE 3 STEP

Rocket Stove

- use less wood
- breathe less smoke



Introduction

The 3 Step Rocket Stove is designed to be:

- Simple to make with local materials, *and*
- Easy to use, consuming less fuel.

The key benefits of the Rocket Stove, over the traditional open fire are:

- Less harmful smoke is produced and inhaled
- The fire is hotter, burns more of the exhaust gases and directs the heat to the base of the cooking pot for faster results
- Less wood or fuel is used
- Fewer back problems from bending over to tend open fire

This guide to building a Rocket Stove has been produced by Medical Sailing Ministries (MSM) as part of their work in transporting medical teams to the remote islands of Vanuatu.

To contact MSM, or find out more visit www.msm.org.au



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STEP 1

Making the mould



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Step 1 – Making The Mould



- a). Cut out the sides & ends
Sides = 110mm x 390mm
Ends = 110mm x 110mm



- b). Drill holes & screw
Internal measurements
of 110mm x 330mm



- c). Assemble mould ensuring
internal size of 110mm x 330mm



- d). Attach block to end of mould
Block = 75mm x 40mm

STEP 2

Making the mud bricks



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Step 2 – Making the mud bricks



a). Level the ground



b). Dig together soil & clay



c). Add dry grass



d). Mix well



e). Use freshwater (NOT seawater)



f). Mix some more

Step 2 – Making the mud bricks



g). Make bricks using mould



h). Wet mould regularly



i). Leave bricks to dry



j). Turn bricks after 3 days



j). Keep bricks dry



k). Dry in sun 10-14 days

STEP 3

Making the Rocket Stove



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Step 3 – Making The Stove



a). Mix mud for mortar



b). Lay first layer of bricks on bed of mud



c). Leave gaps for air at sides



d). Add mud for second layer of bricks



e). Begin second layer with front two bricks



f). Use mud between each layer of bricks

Step 3 – Making The Stove



g). Cut bricks to fit



h). Lay cut bricks between



i). Fill with mud between bricks



j). Complete second row



k). Use straight timber to keep
Brick laying square



l). Use straight timber on vertical
& horizontal edges.

Step 3 – Making The Stove



m). Lay mud between



n). Fit cut bricks



o). Continue with laying 3 & 4



p). Continue using straight timber



q). Smear outside with mud



r). Smear inside with mud

Step 3 – Making The Stove



s). Smooth off outside by hand



t). Smooth off outside by hand



u). Note gap for air at sides



v). Light fire



w). Add wood from top & bottom



x). Stove directs fire onto base of pot for faster heating

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