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HAKA "SAVING-THE-TREES" HOUSING PROJECTS:

Saving the Trees:

To make a Rondavel, traditional house, made from wooden poles cut from trees and assembled with mud a person will cut down around 30 trees. This house will only be good for around three years and they will have to be replaced due to rot etc.

This is causing a major problem throughout the world, impacting on the environment, wild life and contributing to global warming by unnecessarily and unsustainably cutting down these trees; but (until now) with no other choice, in order to have a roof over their heads.

If this same person were to build his house out of [blocks](#) this would eradicate the destruction of the environment through this person not needing to cut down the trees.

Disadvantages of having a wooden house:



- Cutting down trees has a huge impact on the environment.
- Having to rebuild within 3 to 4 years due to weather erosion, wood rot etc.
- Fire hazard.
- Note how the area surrounding the rural homestead here has been denuded of all trees!



Advantages of building a house with Cement Blocks:

- A block-built house is durable for a life span of approximately 40 years.
- Secure, weather resistant and safe.



- Assisting with ongoing climate change.
- Saving the environment.
- Removing the river sand from silted rivers.
- Saving the wildlife, in particular the bird life.

The trees here have all already been cut down!

Actual Tree-Saving Plan [while you build a house].

To make a basic house out of [block moulds](#) you would need:

- A [block mould](#) from
- 6 bags of cement (R65/bag Aug 2009)
- Water (FREE from the rivers)
- River-sand is FREE from the rivers - except for transport costs.



With one [block mould](#) two people you can make 210 [blocks](#) per day using 6 pockets cement.

210 [blocks](#) can build the same house that uses 30 trees.

If two people can save 30 trees in one day (making blocks) then in 22 working days they can save 660 trees. The same two people can make 4620 [blocks](#) working 22 days a month and the amount of sand taken from our silted rivers would be 36 960 kg's, enabling the rivers to flow properly helping the aquatic life.

In one year 264 houses could be built from the [blocks](#) saving 7920 trees and clearing 44 tons of sand choking the rivers.

Solution: Invest / donate 1 [block machine](#), R250 to our world green protection scheme.

<http://www.dapsa.co.za/contact.php>



Haka-Block House Construction Costs

Date:
2009-
08-27



Typical 5m Diam Rondavel Floor area 19.6 Sq M

Item	Description	Qty	Dimensions (metres)			Total Vol / Qty	Rate R/???	Amount Rands	
			L	w	h				
1	Foundation 3:2:1 mix	1.0	15.7143	0.3	0.250	1.18		160.00	
2	Damp course Row (blocks)	1.0	15.7143		0.400	39.29	5.50	216.07	
3	Floor slab 3:2:1 Mix	1.0	6.25	0.05	3.143	0.98		160.00	
4	walls to 2.4 m (Haka Blocks)	8.0	15.7143	1	1.000	125.71	5.50	691.43	
5	Plaster Mix 3 bags Cement	3.0		1		3.00	65.00	195.00	
6	Doorframe	1.0		1		1.00	450.00	450.00	
7	Window frames	2.0		1		2.00	650.00	1,300.00	
8	Windows incl glass	2.0		1		2.00	750.00	1,500.00	
9	Roof frame Galv Steel	1.0		12	3.200	38.40	15.00	576.00	
10	Roof netting	1.0	6.25	1.25	3.143	24.55	10.00	245.54	
11	Roof Plaster (Bags Cement)	2.0		1		2.00	65.00	130.00	
13	Roof Sealer/ paint	20.0		1		20.00	90.00	1,800.00	
14	Guttering	1.0		5	3.143	15.71	28.00	440.00	
15	Paint Walls litres	20.0		1		20.00	65.00	1,300.00	
16	Labour For building	5.0		2		10.00	80.00	800.00	
17	Cement for Founds	8.6		1		8.64	65.00	561.79	
18	Sand for Building	15.0		1		15.00	120.00	1,800.00	
19	Stone for founds	4.3		1		4.32	160.00	691.43	
20	Other Contingency							500.00	
21	Other Miscellaneous Fittings							500.00	
22	Total		Nett excl supervision and taxes/ vat						R 14,017.25
			Cost net / sq m floor area					R 713.61	

Typical homestead three Rondavels 5m Diameter total 60 sq m effective floor area

R 42,051.75

Cost can be reduced if "Foundations" are replaced with simple 100mm concrete slab.

Reduction

R 320.00

per unit

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Setting -up a Rural Block-making enterprise:

Assign a designated area in South Africa where you would like the project to be started - or we can suggest a poverty stricken area for you.

Minimum order of 20 [moulds](#): Delivery in KZN or 100 throughout South Africa. Quotes available on request, for the rest of the world.

Free delivery around KZN, 7.5% added for the Gauteng and 10% for the Cape.

Payment Terms:

With a 50% deposit we will supply you with a pro-forma invoice and job number for the goods purchased and disperse the [moulds](#) in your designated area.

Delivery: We will supply each individual block -maker a [block mould](#) manufactured by ourselves, enabling an individual to start building their own house or to produce [blocks](#) to start their own business.

Identify Each Recipient: Each person will produce his or her ID number, and a copy will be taken of each individual ID document, to avoid any duplication -everyone will be given an equal opportunity.

Training will be given to show how to use a [block machine](#), which is very simple to use.

Before and After:

A photo will be taken of the area before progressing and emailed to the customer as well as being posted on our website. The chosen area will also be marked off on our website map. After six months has lapsed another photo will be taken and emailed to yourself as well as appearing on the website with updates and progress of your designated area.

As proof of delivery, we will supply you with photos and GPS readings of your selected area once the [block moulds](#) have been distributed with ID numbers.

