



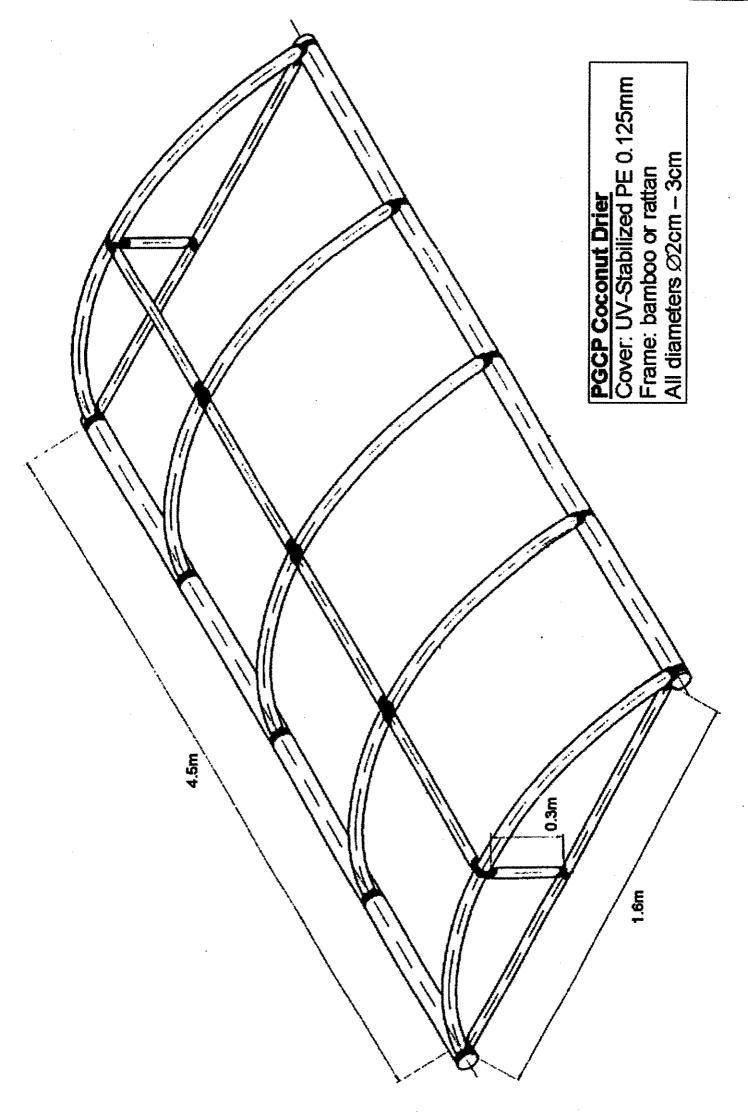
## Solar Drier Plans: PGCP Coconut Drier and Kenya Black Box Drier

	Energy / Environment (E) Water / Sanitation (W) Agriculture (A) Foodprocessing (F) Manufacturing (M)
	Technical Information is able in:
	English (e) French (f) German (g) Spanish (s) Other:

Technical Field:

Compiled by Matthew G. Green & Dishna Schwarz (2001)

Note: For the operating characteristics of these driers, please refer to GATE Technical Information E15e, "Solar Drying Equipment: Notes on Three Driers" by the same authors.



## Construction Notes for the PGCP Coconut Drier

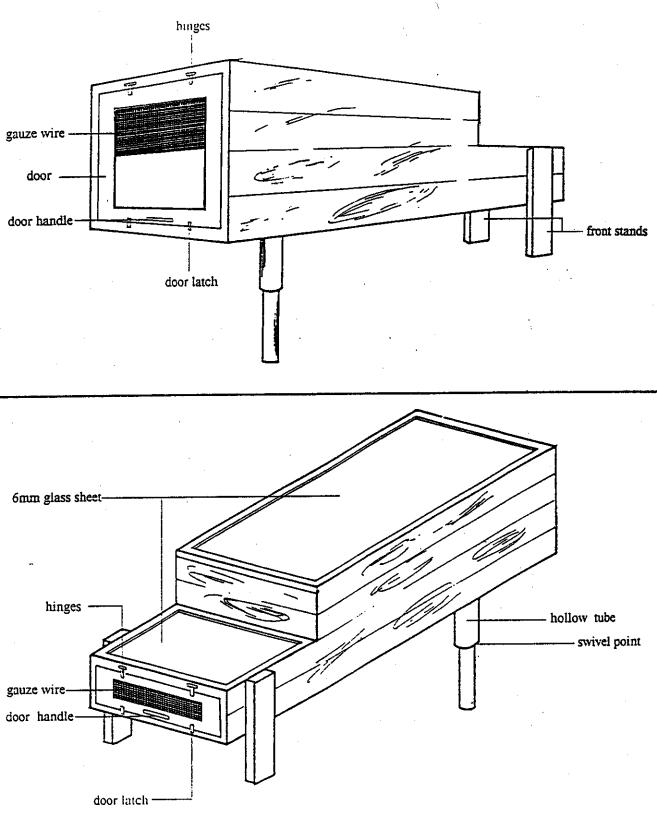
*Frame*. Bamboo was the least expensive material for the frame in the Philipine project. With bamboo, the slats comprising the arcs are attached to the horizontal frame by cutting a slit just large enough to insert the slats. With rattan, this is done by making splits and ties.

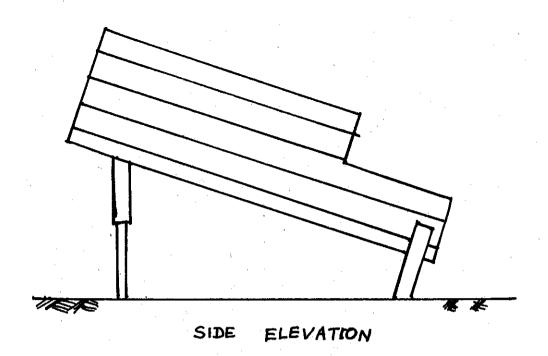
*Cover.* UV-protected polyethlylene (PE) sheets are recommended for the cover. The study conducted showed that PE sheets accumulated less dust and stayed serviceable even after 31 months of use.

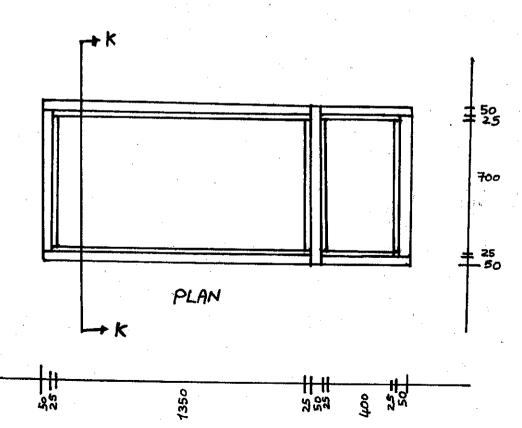
*Materials.* Note that the materials list in Table 1 is for a 68" X 120" X 12" drier.

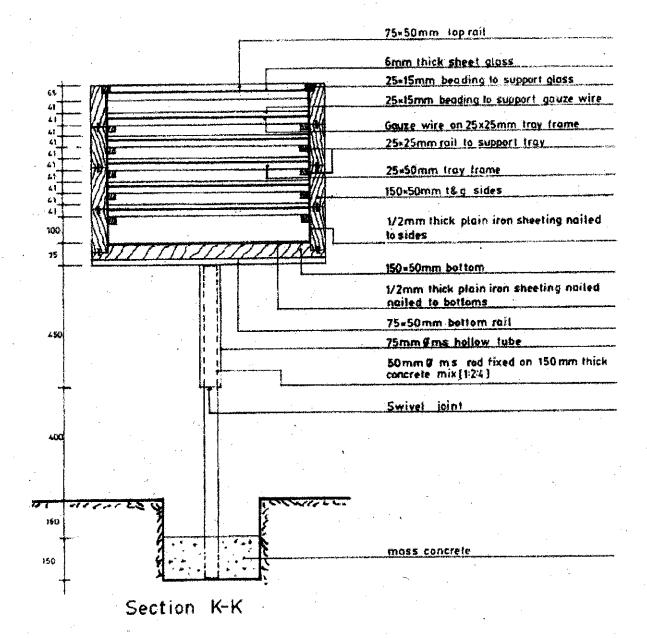
Table 1: Materials for a 68" X 120" X 12" drier.

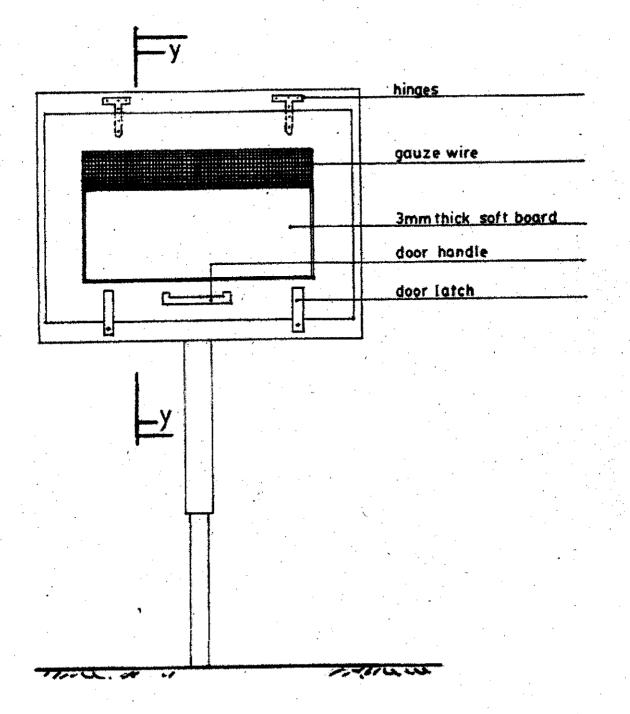
Quantity	Item
1 pc	Bamboo pole - 7.5' long, 3" diam.
3 pcs	Bamboo pole - 10' long, 3" diam.
1 pc	Bamboo pole - 6' long, 2" diam.
3.25 m	0.125mm X 240 cm UV-protected PE sheet
0.25 Kg	1" common wood nails
0.25 Kg	2" common wood nails
165 sq. in.	Canvas strip ( 0.45 mm t )
85 pcs	0.5" X 10 mm staple wires



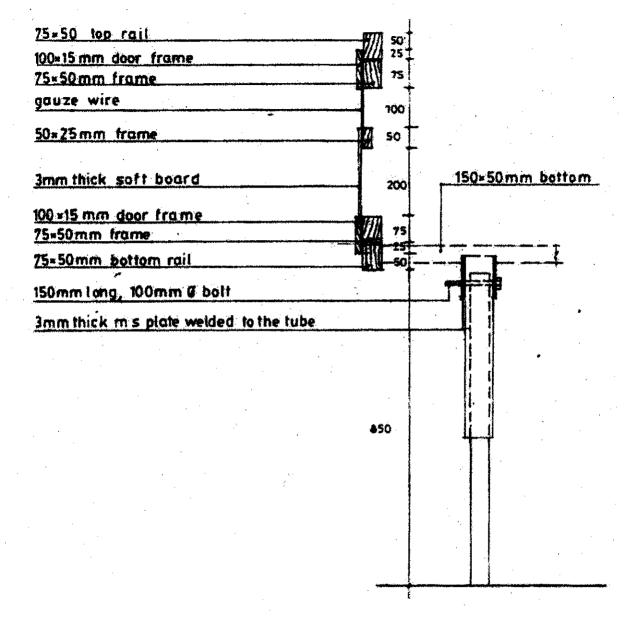




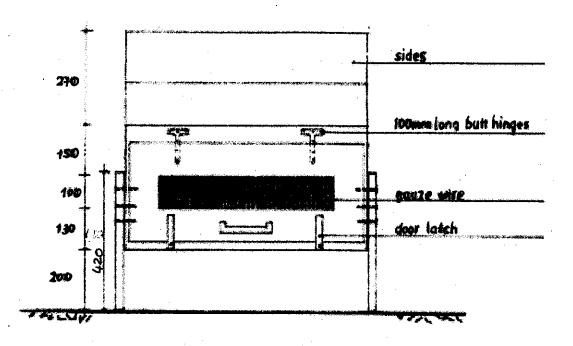




Front Elevation

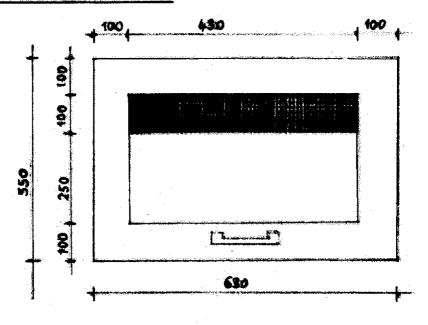


Section thr'o y-y

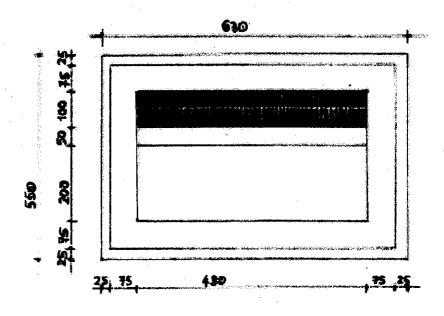


Back Elevation

## front door details



elevation from outside



elevation from inside