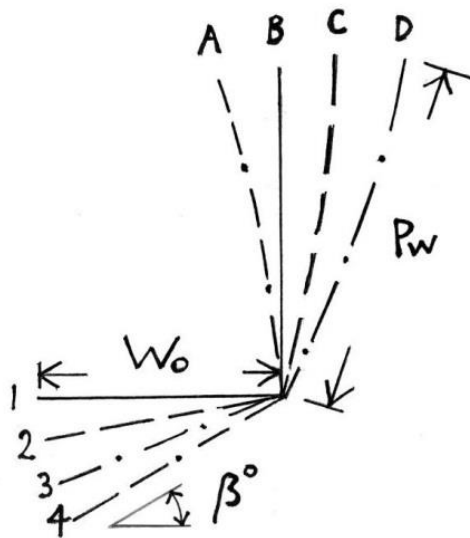
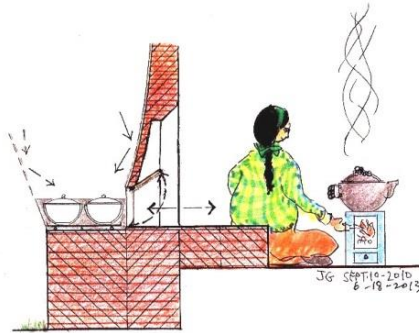


Thru-wall solar cooker prefabricated parts

Two prefabricated parts that fit together are: a thru wall door frame CSEB masonry form; and an unglazed reflector box with cookware support grill. An intention is for large quantity production with bio-plastics and in-shop mirror tiling. An aim is to produce prototypes with ferrocement or other suitable prototype materials. Cookware sizes determine door clearance dimensions. Dimension E is tall enough for upward door swing clearance. A thru-wall solar cooker has significant house plan and site design solar access factors, complicating house cluster and multi-story design.



A



B

Thru-wall nonimaging reflectors optical configuration

Nonimaging reflectors **optical-thermal design references** for selected regional latitude-range locations based on selected cookware and autoclave targets are needed for building technology studies.

Nonimaging reflector concentrator thru-wall trough solar kitchen studies

Joel H. Goodman July 7, 2014