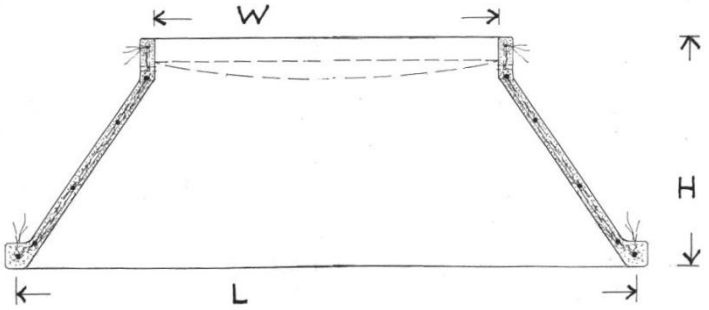
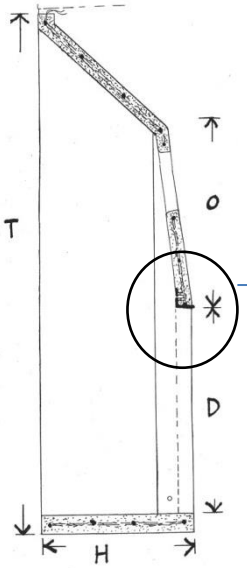
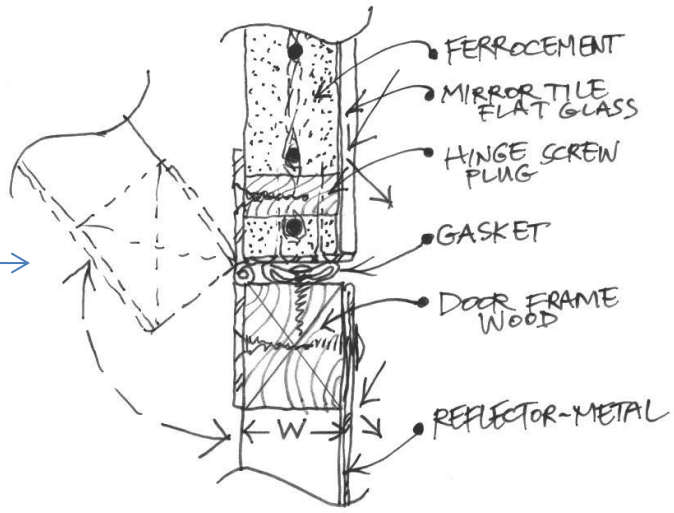
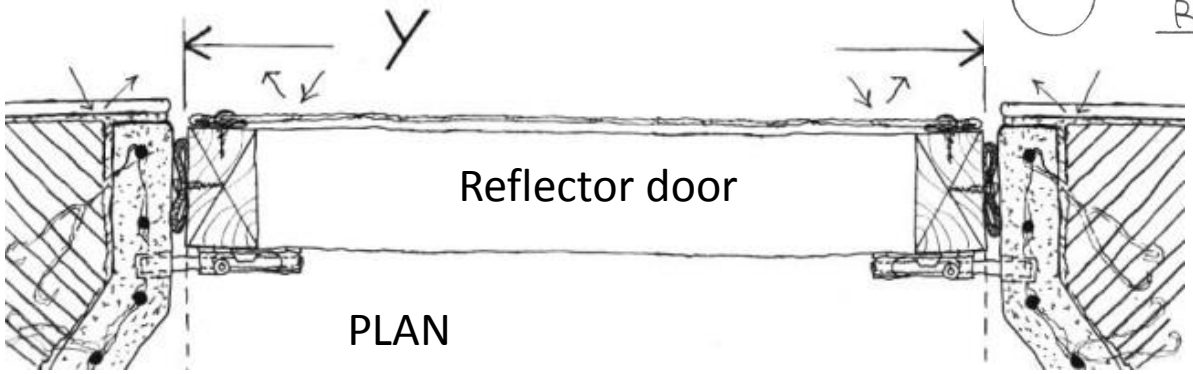


PLAN

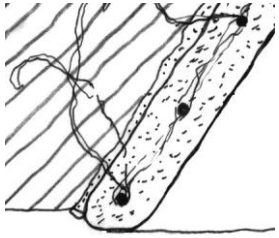




DETAIL AT TOP HINGED REFLECTOR DOOR JG DEC 10 2014

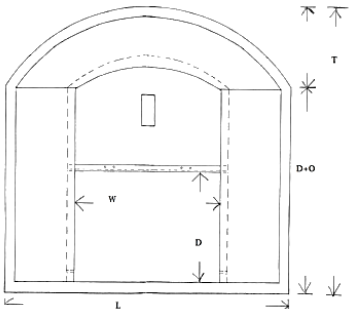


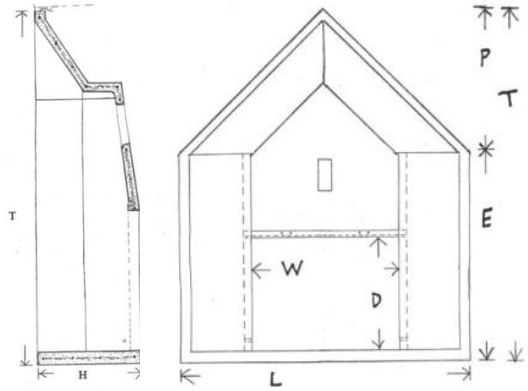
PLAN

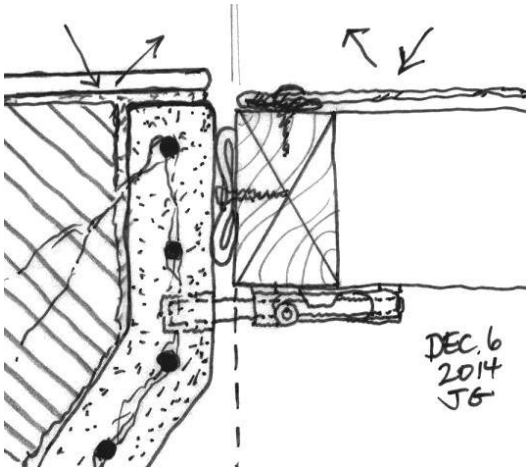


Thru wall solar oven door (wood) ferrocement frame form for CSEB walls. Screw plug can be replaced.

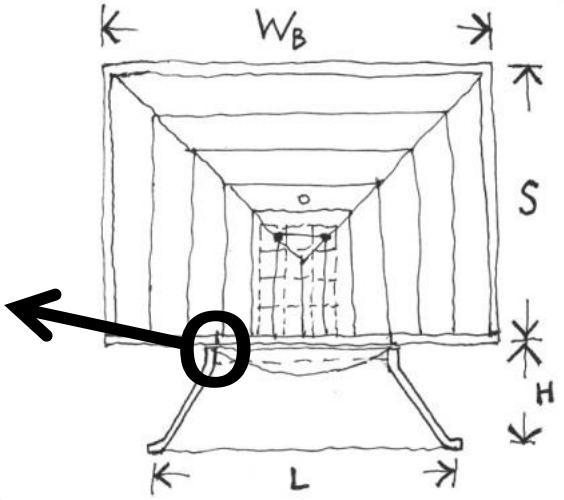
JH Goodman Dec 10, 2014







Detail at reflector wood oven door and ferrocement frame



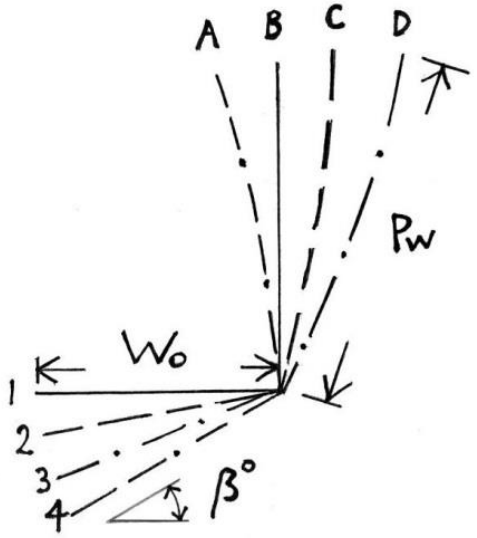
PLAN

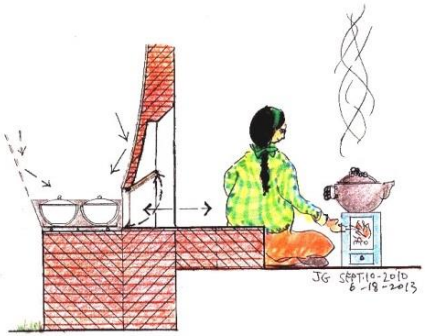
A wood-frame top hinged oven door has anodized aluminum reflector and a ferrocement door could have glued glass mirror. An unintended reflector door swing hitting cookware and insect and rot damage to wood are concerns. The door has a gasket and bolt locks. Selected cookware sets doorway clearance and volumetric target for reflectors optical-thermal design.

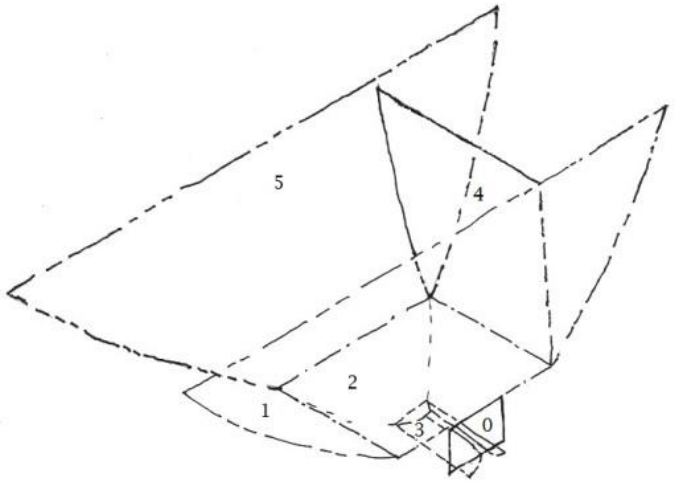
Prefabricated thru-wall (slide in-out) solar oven doorway frame (bio-plastic, ferro-cement) form for masonry walls.

Nonimaging reflector concentrator thru-wall trough solar kitchen studies

Joel H. Goodman Dec. 6, 2014



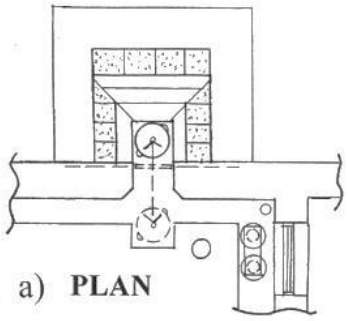


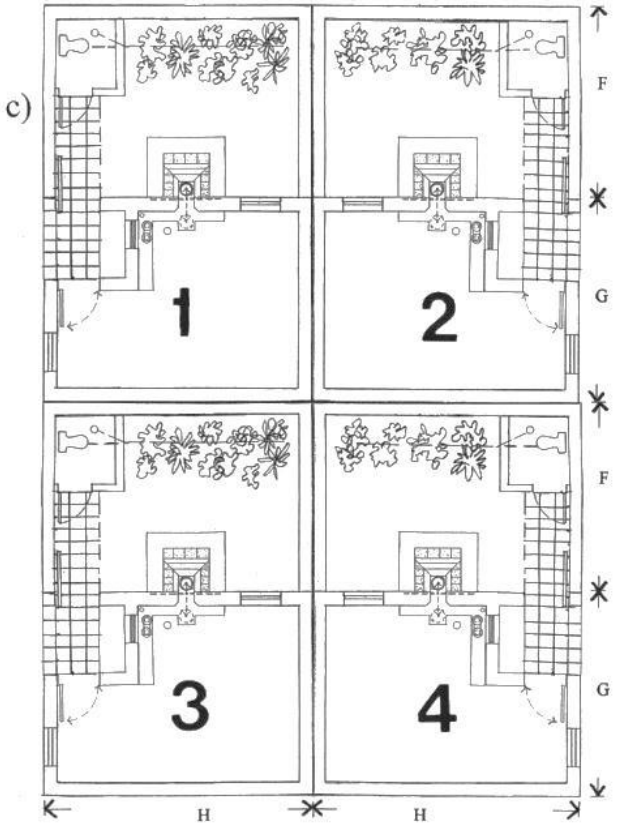


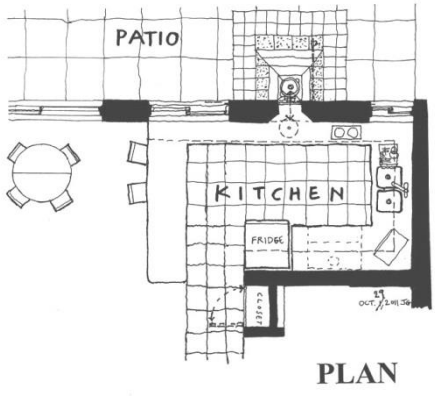
A **B**

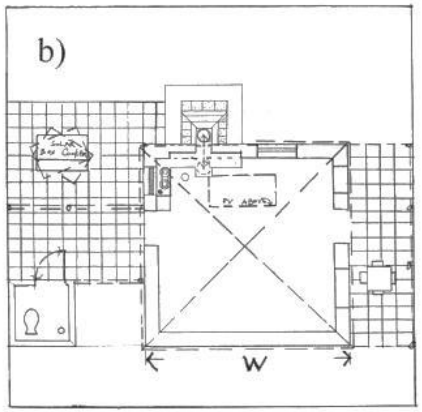
Thru-wall nonimaging reflectors optical configuration

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.





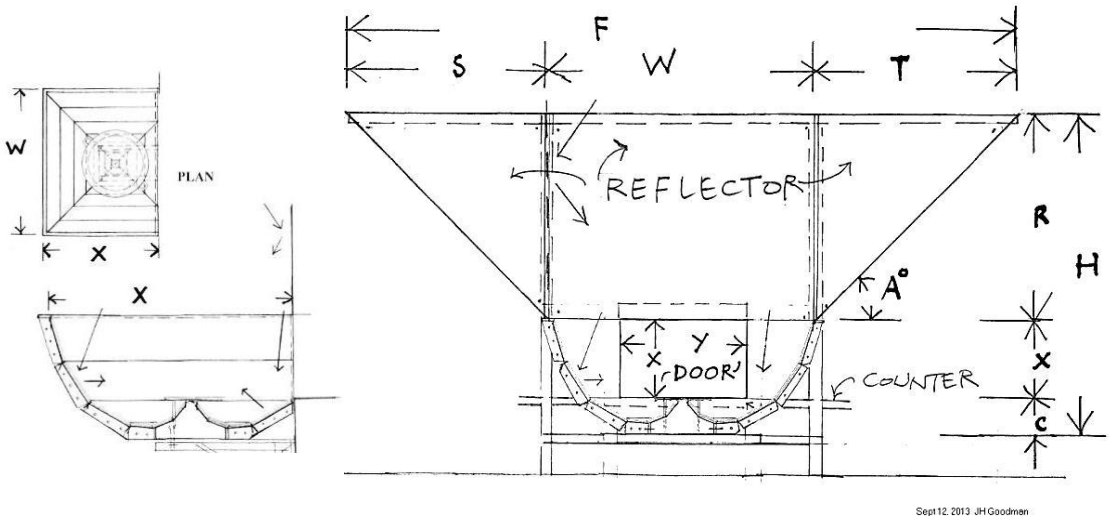


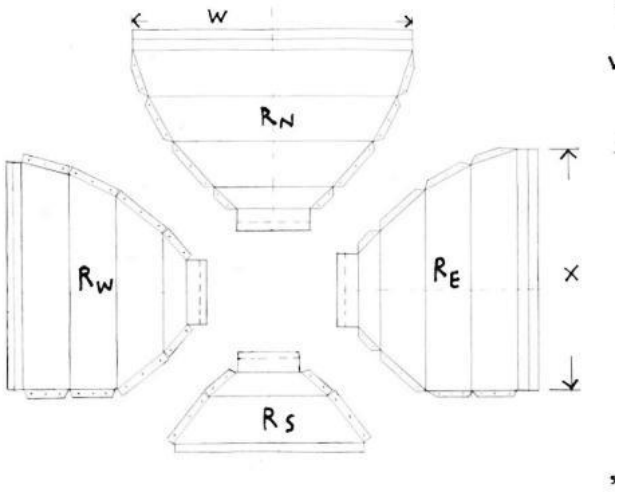


Thru-wall solar cookers have convenience for cooks however, there are significant solar access requirements for kitchens, buildings and site plans. Therefore it is of interest to study house and cluster site planning before finalizing individual thru-wall solar kitchen house plans

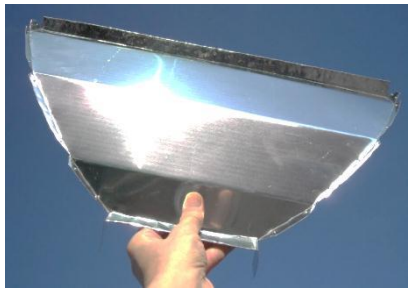
Nonimaging reflector concentrator thru-wall trough solar kitchen studies

Joel H. Goodman July 7, 2014





Quadrant reflectors



Thru wall fixed concentrator nonimaging reflector box

A reflector box (aluminum or bio-plastic substrate) attaches to a wall (house, trailer) with a ridged reflector bracket with grill posts. A quadrant reflector pattern is similar for all four quadrants of the concentrator box. Four creased aluminum-reflector attached elements are secured to the grill reflector bracket structured to the wall.

Nonimaging reflector concentrator thru-wall trough solar kitchen studies

Joel H. Goodman July 7, 2014