## **HOMEBUILT** 2E245 Fan and "on 110 / off 90" 4WT48 70 cfm Grainger t'stat or 4WT47 105 cfm Solar Thermostat ASSEMBL Grainger fan make shroud of Inlet Shroud aluminum 1/4" plywood on house trim stock top and bottom of manifold **Absorber** Mounting-Rails Manifold 14" square x 9" deep (bond to case w/urethane construction adhesive) 12" Case Trim "C" baffle with 1/2" x 1" x 1-1/2" 6" deep cap-angle of aluminum flashing or house trim stock Case Construction -Use a continuous fillet of silicone adhesive to install 1" x 1" "L" aluminum flashing mounting rails, for 1" thick filter-media solar absorber (use filter-media from Side View at Bottom Grainger industrial supply catalog, item 4WZ72) urethane silicone construction adhesive fillet inside corners adhesive with silicone adhesive 1" urethane after box is built, but foam board acrylic before glazing glazing w/aluminum seal with foil faces silicone adhesive after glazing and side skins 1/4" plywood are installed (on sides only, not on back) cover back corner with 1" x 1" angle of .015" or .019" collector side skinsilicone .015" or .019' aluminum pop rivets adhesive aluminum thru side skin and back corner angle