

Exploded View of Strip Heater

6. BH Thermal RH-XX
Strip Heater Element
RH-24 (1/2" wide x 24" long)
RH-36 (1/2" wide x 36" long)
RH-48 (1/2" wide x 48" long)

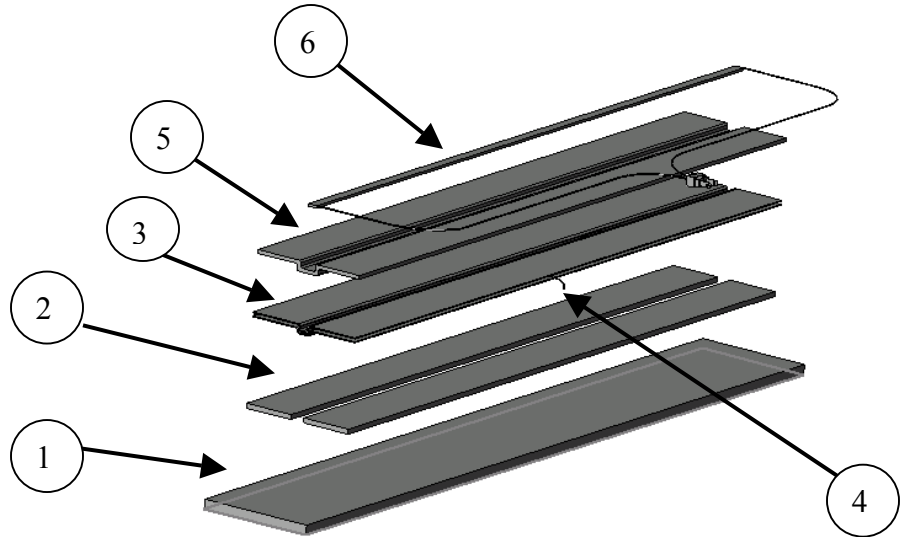
5. Fiberglass Cloth
RH-24 (6 1/4" x 24" long)
RH-36 (6 1/4" x 36" long)
RH-48 (6 1/4" x 48" long)

4. Grounded Wire
(Ground Aluminum foil to common Ground)

3. Heavy Duty Aluminum Foil
(Two Thicknesses)
RH-24 (6" x 24" long)
RH-36 (6" x 36" long)
RH-48 (6" x 48" long)

2. 1/4" Plywood Strips
RH-24 (2 5/8" x 24" long)
RH-36 (2 5/8" x 36" long)
RH-48 (2 5/8" x 48" long)

1. 1/2" Plywood
RH-24 (6" x 30" long)
RH-36 (6" x 42" long)
RH-48 (6" x 54" long)



How to make a strip Heater for Forming Acrylic Sheet

1. Cut a piece of 1/2" Plywood (Refer to chart above)
2. Cut two 1/4" Plywood Strip (Refer to chart above)

Center the two strips (2) on top of the base (1) leaving a 3/4" channel down the center and nail to base.
3. Cut two pieces of heavy duty aluminum foil (Refer to chart above) and fold to fit in the 3/4" channel.
4. Attach a ground wire to the aluminum foil with a Screw as shown. Note: The ground wire should be long enough to attach to a common ground such as the corner plate screw on an electrical outlet.
5. For insulation use fiberglass cloth (Refer to chart above) and fold to fit in the 3/4" channel on top of the Aluminum foil. Staple fiberglass cloth and aluminum foil to 1/4" plywood strips (2) along the outside edges. Tape edge of fiberglass cloth and foil down to sides of wood to prevent fraying of edges.
6. Lay the BH Thermal RH-XX Strip Heater Element in the channel. Drive a nail 1 1/2" from Each end of the base (1) along a center line and tie end strings of the heating element to the nails.
7. Attach ground wire to common ground and you are ready to plug strip heater into 110 volt out let.

Instruction for Strip Heat Forming Acrylic Sheet

Acrylic sheet may be formed along a straight line by strip heating. Remove and protective masking paper. Place acrylic sheet on the supporting frame with the area to be formed directly above the heating element – do not let the sheet touch the heating element. The material could not Be heated to a temperature higher than 340 F. Surface overheating will cause scorching and bubbling; if the occurs, increase the distance Between the heating element and the sheet. Allow the material to heat thoroughly (until it softens or welt in the area to be formed). Bend gently to the desired angle, keeping heated side of the material on the outside of the bend, and hold firmly until cool.

Note: Bending material before it is thoroughly heated will result in stress crazing (small internal fractures) along the bend. Practice on scrap material first. Acrylic sheet in thickness greater than 1/4" should not be strip formed.

Do not leave strip heater unattended. Work in a Well-ventilated area. Have a general purpose ABC rated (dry power) fire extinguisher nearby.

Do not heat acrylic sheet with an open flame or in kitchen ovens – such ovens are not equipped with adequate temperature controls and safety devices for this type of work.

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