MICROTHERM INSULATION

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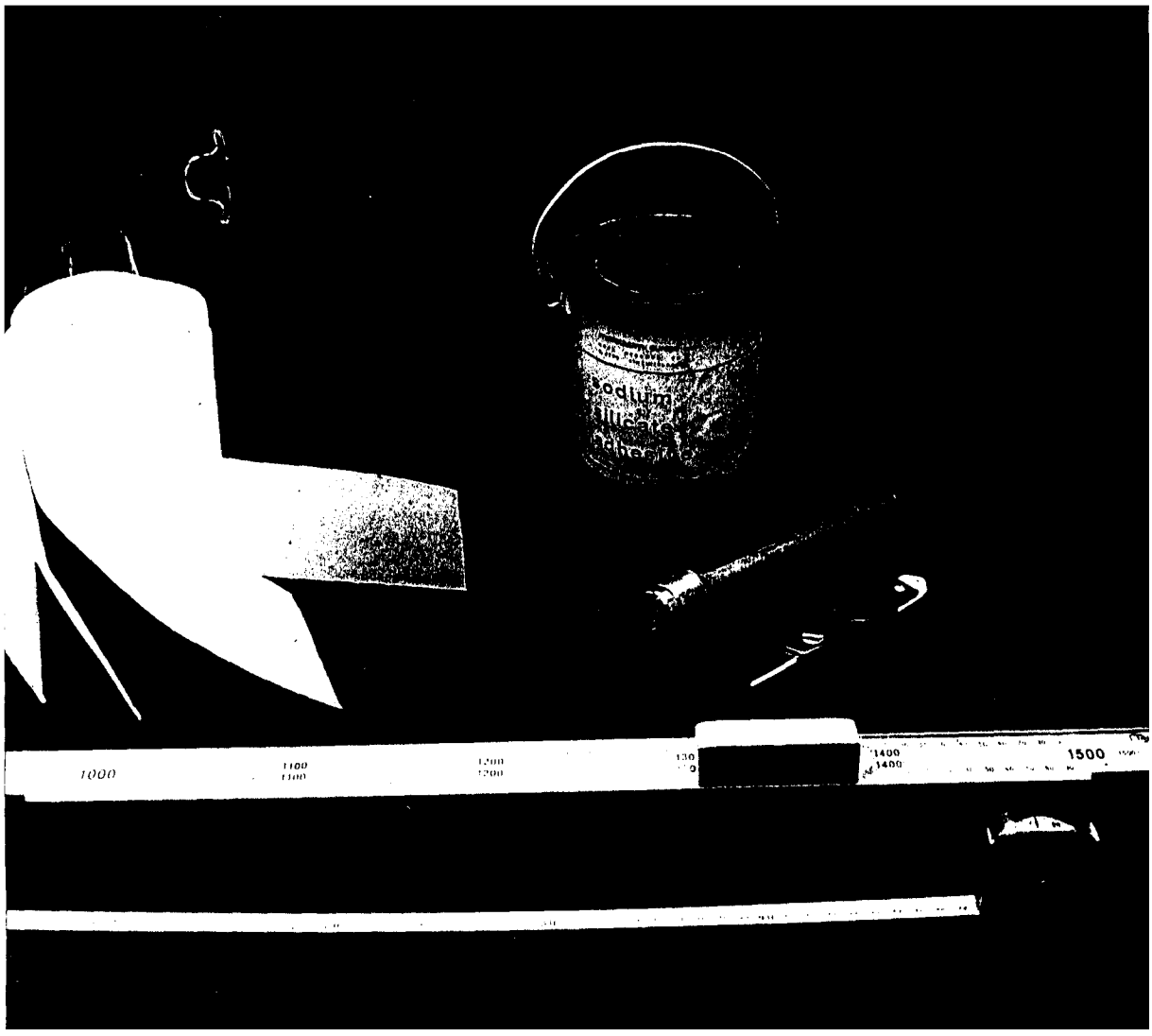
ON SITE CUTTING



MICROTHERM INSULATION ~ ON SITE CUTTING

EQUIPMENT REQUIRED.

1. Clean, flat, wooden or plastic laminate bench surface.
2. Pen or Pencil.
3. Tape measure or template.
4. Straight edge.
5. Sharp knife.
6. Glass cloth strips.
7. Sodium silicate adhesive. This is water based and can be thinned if necessary.
8. Paint brush.



Fig.1

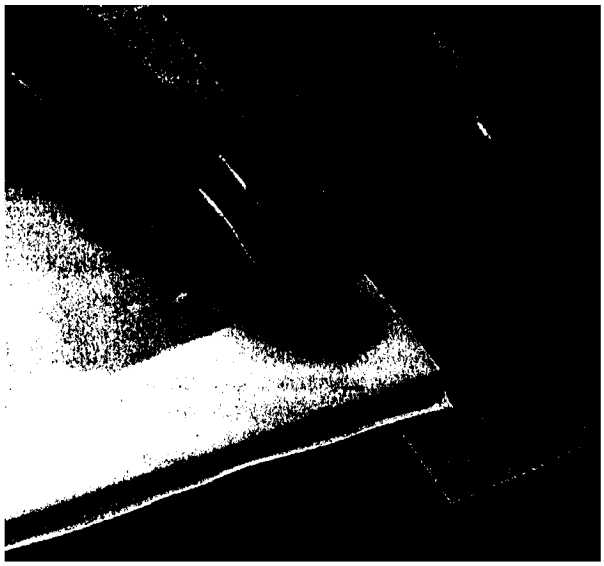


Fig.2

MICROTHERM products are usually supplied to customers' exact dimensions. When it is necessary to change the size and shape of MICROTHERM on site, the methods detailed in this leaflet should be used.

WARNING : Do not attempt to cut a MICROTHERM Panel which is damaged. Severe mishandling may have cracked the panel or converted it to powder in parts. Damaged panels cannot be satisfactorily cut and sealed.

● MICROTHERM PANEL - STRAIGHT CUT.

1. CUTTING TO SIZE

1.1 Mark a cutting line on the panel.

1.2 Place a straight edge against the cutting line. The straight edge should be placed on the side which is to be kept.

1.3 Make a clean cut through the panel. (See fig.1)

1.4 Discard the part of the panel which is no longer required.

2. PREPARING THE SEAL

2.1 Cut a strip of glass cloth wide enough to be folded generously around the raw edge of the panel. (100mm + the MICROTHERM thickness)

2.2 Apply well stirred adhesive with a paint brush to one side of the strip of glass cloth.

3. APPLYING THE SEAL

3.1 Place the MICROTHERM panel on the adhesive faced strip of glass cloth. (See fig.2)

3.2 While holding the MICROTHERM firmly in place, fold the strip of glass cloth over the cut edge of the panel.

3.3 Press the glass cloth strip into place. (Make sure the panel surface is free from dust before applying the glass cloth strip. This will provide a good bond and ensure that the seal remains in place.)

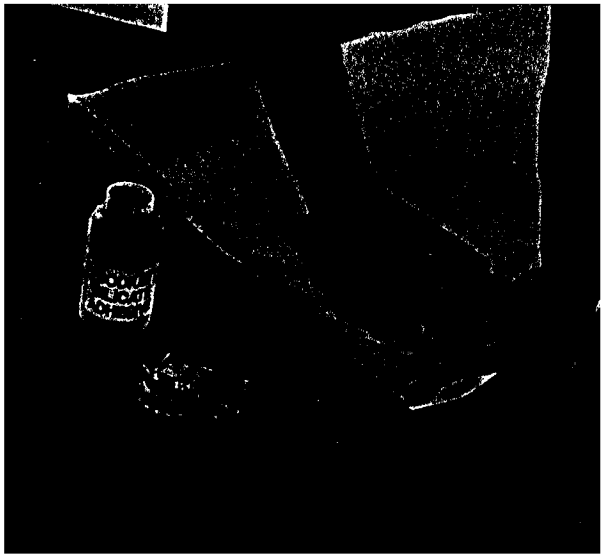


Fig.3

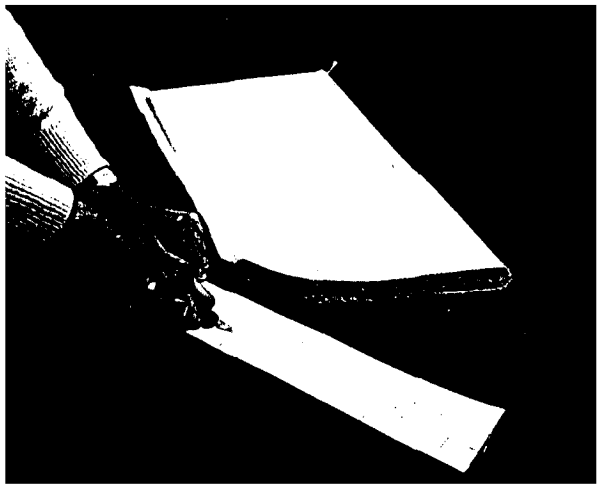


Fig.4

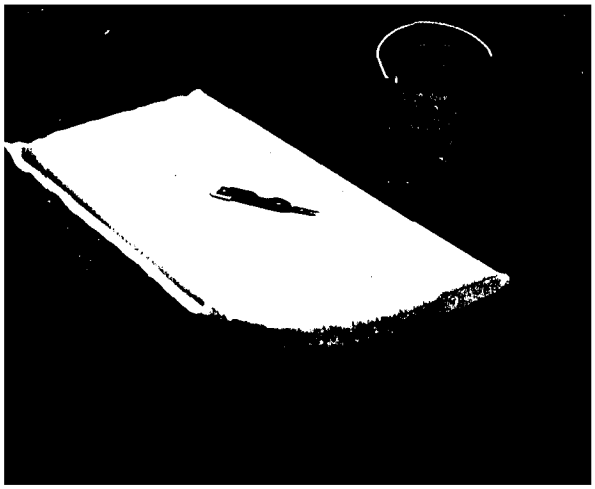


Fig.5

4. TRIMMING

4.1 Surplus glass cloth can be neatly trimmed as soon as the strip has been bonded in place.

4.2 Any adhesive on the MICROTHERM Panel may cause it to bond to other surfaces so care should be taken when stacking. If several panels are stored together after edge sealing, they should be separated by sheets of polythene.

● MICROTHERM PANEL - CURVED CUT.

1. CUTTING TO SIZE

1.1 Place a template on the part of the panel to be used.

1.2 Cut along the profile using a sharp knife. Discard the part of the panel which is not required.

2. PREPARING THE SEAL

2.1 Cut a strip of glass cloth wide enough to be folded generously around the raw edge of the panel. (100mm + the MICROTHERM thickness)

2.2 Mark two parallel lines centrally down the strip of glass cloth. (The distance between the lines should equal the panel thickness)

2.3 Cut the strip with a series of slits from both edges up to the marked lines. (See fig.4)

3. APPLYING THE SEAL

3.1 Apply well stirred adhesive with a paint brush to one side of the strip of glass cloth.

3.2 Starting at the centre and working towards the edges, fold the strip of glass cloth firmly in place around the panel edge.

3.3 Trim any excess glass cloth strip.



Fig.6

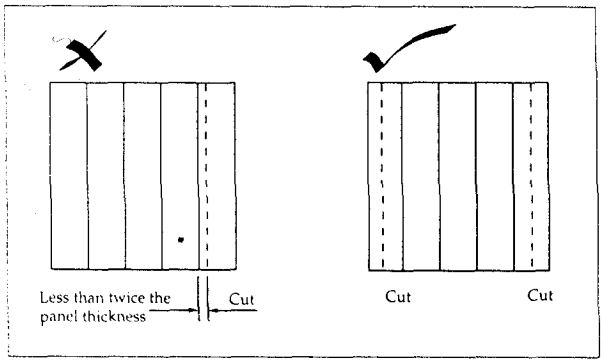


Fig.7



Fig.8

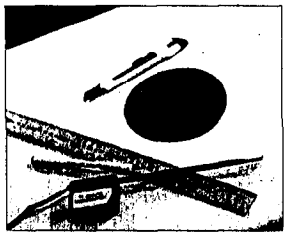


Fig.9

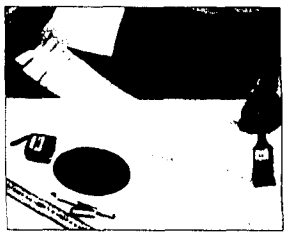


Fig.10

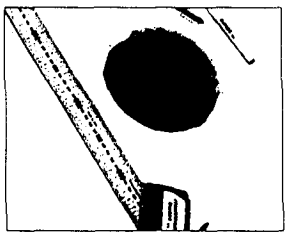


Fig.11

● MICROTHERM SLATTED PANEL

1. CUTTING AND SEALING

1.1 Cut and seal the MICROTHERM Slatted panel as detailed for MICROTHERM Panel.

2. FLEXIBILITY

2.1 The strip of glass cloth sealing the cut edge reduces relative movement between adjoining slats. Complete flexibility is achieved by cutting through the sealed edge at each joint. (See fig.6)

NOTE.
If the cut width of an individual strip of MICROTHERM is too narrow (less than twice the panel thickness) the MICROTHERM core will become dislodged. This problem is avoided by making two cuts, one at each edge of the panel. (See fig 7)

● MICROTHERM - CUTTING HOLES

1. CUTTING AND SEALING

1.1 Mark the hole to be cut on the panel (See fig.8) and cut through the first layer of glass cloth.

1.2 Cut through the core and remove unwanted material.

1.3 Cut through the second layer of glass cloth.

Note: Small holes can be cut using a cork boring tool or even a simple twist drill when the diameter is less than 5mm.

1.4 Cut a strip of glass cloth as described previously for a curved cut and apply well stirred adhesive with a paint brush to one side of the strip of glass cloth. (See fig.10)

1.5 Apply the strip of glass cloth to the raw cut edge of the hole and fold over each side. (See fig.11)