

## Principles of Operation

To allow a true comparison between temperatures taken within the same site, or at differing geographical locations, the thermometers must be exposed in as near standard conditions as possible. Accordingly, those thermometers employed to determine the air temperature, the extremes of air temperature and the humidity are located in a thermometer screen of an approved design. The screen is designed to protect the thermometers from the effects of direct radiation and precipitation, whilst allowing the free movement of air through the screen. Finished in good quality white gloss paint, the screen is usually supported by means of a rigid iron stand, the base of which is set firmly in the ground. To comply with Meteorological Office requirements, the stand must elevate the screen, so that the bulbs of the vertically mounted wet and dry bulb thermometers are 1.25 metres above the ground.

### Stevenson Screen B835

Manufactured to a British Meteorological Office design, this screen is constructed from seasoned timber, finished with three coats of top quality white gloss paint, to reflect radiation. The front, back and side panels are double-louvered with the outer layer sloping down and outward. The front panel has two brass hinges at the base to form a door. When open, this is retained in the horizontal position by two chains and can be padlocked when closed. The roof is double layered, with an air space between inner and outer components. The floor consists of three partially overlapping boards. Internal supports are arranged to accommodate either mahogany frame or plastic scale pattern thermometers as standard.



### Self Assembly Screen B836

When constructed to the detailed and illustrated instructions, the fully machined component parts will assemble to form a screen identical to the ready-made version B835, with all screws, panel pins, hinges, chains and a hasp, being provided. The only additional materials required are glue, paint and a padlock.

### Screen Stand B837

An iron stand, which can be set in the ground, forms a rigid support to elevate a screen to the recommended height. Finished in black enamel, stands are available to suit the Stevenson screen or large thermometer screen.

## SPECIFICATIONS

### Stevenson Screens

Reference	Internal dimensions in mm	External dimensions in mm	Weight
<b>B835</b>	405 (H) x 445 (W) x 240 (D)	540 (H) x 580 (W) x 420 (D)	14 kg
<b>B836</b>	405 (H) x 445 (W) x 240 (D)	540 (H) x 580 (W) x 420 (D)	14 kg
<b>Iron Stand</b>			
<b>B837</b>		1280 (H) x 480 (W) x 300 (D)	23 kg