



Meteorological screens

The MET Series Instrument shelters are an established industry standard and are sold to many national meteorological services and industrial customers worldwide.

They have proven to be exceptionally durable over many years, and are in daily use in many countries with extreme and varied climates. Their innovative design features a durable white powder-coated frame and robust outer louvers, which are resistant to UV radiation and chemical attack.

The design of the shelters feature a white outer reflective surface, combined with an inner barrier of non-reflective, black louvers. This prevents sunlight and reflected radiation reaching the sensors or thermometers, whilst still allowing air to flow across them. Inter-comparison trials have confirmed that errors under adverse conditions are significantly less than inside the old wooden Stevenson Screens.

Key Features

- ~ Extremely durable design
- ~ Accuracy in trials
- ~ Improved protection against wind-blown precipitation
- ~ Secure installation of thermometers, with stable mounting
- ~ Durable white reflective UV stable plastic and aluminum frame

Introducing our range of meteorological Screens, designed for use at inland and coastal Met Stations, and in all climates. They can be used to house a complete range of instrumentation, whilst ensuring outstanding protection from the heating effects of solar radiation and direct exposure to rain and snow.

Benefits over traditional simple wooden Screens include:

- ~ Weatherproof construction
- ~ Extremely durable
- ~ Improved accuracy
- ~ Unique double-louvered construction
- ~ Highly durable, non yellowing, UV stable plastic
- ~ Secure accommodation for a complete range of thermometers, sensors and larger equipment



Accuracy

Testing of screens has been carried out by several national meteorological services. Test reports are available upon request.

For our standard range of Screens, in conditions of high solar radiation and wind speeds less than 1 m/s the readings were compared with aspirated shields and traditional wooden Stevenson screens. The errors were less than half those recorded in wooden Stevenson and close to those in aspirated shields.

Specifications

- ~ Double louvered high impact thermoplastic louvers
- ~ White external layer, with UV stabilizer for long-term weather resistance
- ~ Extra black internal layer
- ~ Aluminum frame with durable white powder coating
- ~ A4 grade (316), stainless steel bolts used throughout
- ~ High impact UV stable roofs and floors
- ~ Easy mounting onto metal structures
- ~ Padlockable doors at the front and rear, which hinge downwards

Dimensions and weights

MET 01 (2 doors)

Internal : width 491mm
height 421mm
depth 314mm

External (roof not included):
width 568mm
height 559mm
depth 390mm

Weight: 25.5kg

MET 05 (2 doors)

Internal: width 491mm
height 421mm
depth 451mm

External (roof not included):
width 568mm
height 559mm
depth 527mm

Weight: 29kg

MET 02 (2 doors)

Internal: width 354mm
height 421mm
depth 231mm

External (roof not included):
width 430mm
height 559mm
depth 307mm

Weight: 18kg

MET 06 (2 doors)

Internal: width 491mm
height 421mm
depth 231mm

External (roof not included):
width 568mm
height 559mm
depth 303mm

Weight: 22kg

MET 03 (1 door)

Internal: width 231mm
height 421mm
depth 231mm

External (roof not included):
width 307mm
height 559mm
depth 307mm

Weight: 13kg

MET 07 (2 doors)

Internal: width 354mm
height 421mm
depth 314mm

External (roof not included):
width 430mm
height 559mm
depth 390mm

Weight: 19kg

MET 04 (1 door)

Internal: width 231mm
height 354mm
depth 231mm

External (roof not included):
width 307mm
height 492mm
depth 307mm

Weight: 11.5kg

MET 12 Excel (1 door)

Internal: width 396mm
height 418mm
depth 219mm

External (roof not included):
width 472mm
height 612mm
depth 295mm

Weight: 17kg