



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 : 491 mm
Height : 421 mm
Depth : 314 mm

External (roof not included):
Width : 568 mm
Height : 559 mm
Depth : 390 mm

Weight : 25,5 kg

MET 05 (2 doors)

Internal Width : 491 mm
Height : 421 mm
Depth : 451 mm

External (roof not included):
Width : 568 mm
Height : 559 mm
Depth : 527 mm

Weight : 29 kg

MET 02 (2 doors)

Internal Width : 354 mm
Height : 421 mm
Depth : 231 mm

External (roof not included):
Width : 430 mm
Height : 559 mm
Depth : 307 mm

Weight : 18 kg

MET 06 (2 doors)

Internal Width : 491 mm
Height : 421 mm
Depth : 231 mm

External (roof not included):
Width : 568 mm
Height : 559 mm
Depth : 303 mm

Weight : 22 kg

MET 03 (1 door)

Internal Width : 231 mm
Height : 421 mm
Depth : 231 mm

External (roof not included):
Width : 307 mm
Height : 559 mm
Depth : 307 mm

Weight : 13 kg

MET 07 (2 doors)

Internal Width : 354 mm
Height : 421 mm
Depth : 314 mm

External (roof not included):
Width : 430 mm
Height : 559 mm
Depth : 390 mm

Weight : 19 kg

MET 04 (1 door)

Internal Width : 231 mm
Height : 354 mm
Depth : 231 mm

External (roof not included):
Width : 307 mm
Height : 492 mm
Depth : 307 mm

Weight : 11,5 kg

MET 12 Excel (1 door)

Internal Width : 396 mm
Height : 418 mm
Depth : 219 mm

External (roof not included):
Width : 472 mm
Height : 612 mm
Depth : 295 mm

Weight : 17 kg