

TECHNICAL INFORMATION

Front Surface Mirrors

Data Sheet



VISUAL DISPLAYS

Visual Displays Limited is the UK's leading supplier of projection products and services, as well as one of the distributors for one of the largest production facilities in Europe for the manufacture of quality front surface mirrors onto glass or plastic materials, with a maximum sheet size of up to 1800 x 3000 mm.

Large optical mirrors such as those used in telescopes and machine tools, weighing up to 1000kg can be coated, but the diameter is restricted to around 1500mm.

The mirrors are formed by the vacuum deposition of pure aluminium and protected with a transparent overcoat of silicon oxide or magnesium fluoride where good U.V. reflectivity is a requirement. The overcoating on most mirror designs complies with the adhesion and abrasion tests of MIL-M-13508, allowing them to be cleaned as required.

VDL offer three coating formats:

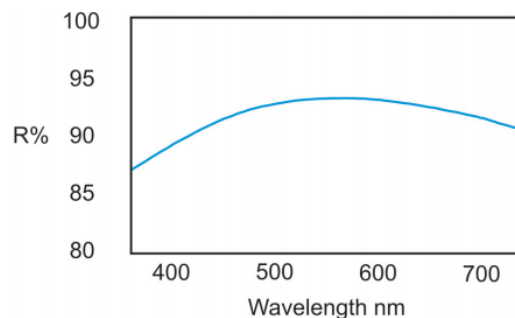
Protected Aluminium

Reflectivity: 87% Average

400-700nm

>92% for band

1-12 Micron

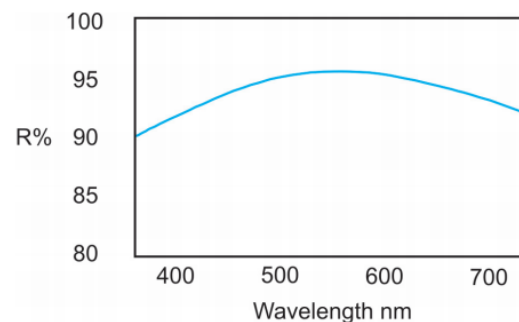


Enhanced Aluminium

Reflectivity: 93% Average

400-700nm

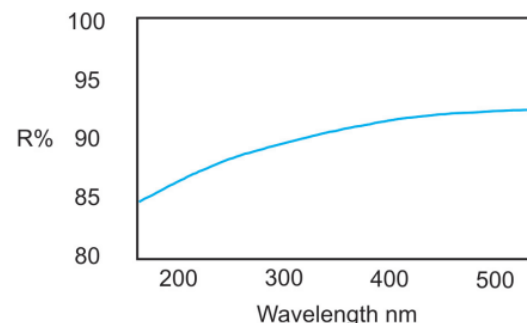
>92% for band



Enhanced U.V Aluminium

Reflectivity: 88% Average

200-500nm



Applications:

- Rear projection systems (Audio Visual presentation).
- Any optical system where secondary reflection is unacceptable, e.g. photocopiers, overhead projectors, etc.
- Astronomical mirrors and collimating mirrors.