

Enhanced Aluminum First Surface Mirrors

Glass Fabrication



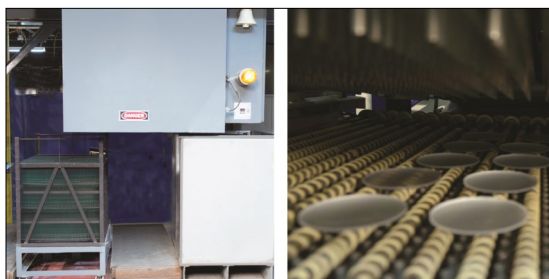
Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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Your Total Solution Partner

Enhanced Aluminum First Surface Mirrors

Enhanced aluminum mirrors are first or front surface mirrors over-coated with dielectric layers to increase reflectivity and protect against humidity and abrasion.

Wavelength range (450 – 650nm) and provides >93% reflectivity. At 15°- 45°angle. A multi-layer film of dielectrics on top of the aluminum enhances the reflectance in the visible and ultraviolet regions.

Mirror Coatings Specs Conform to:

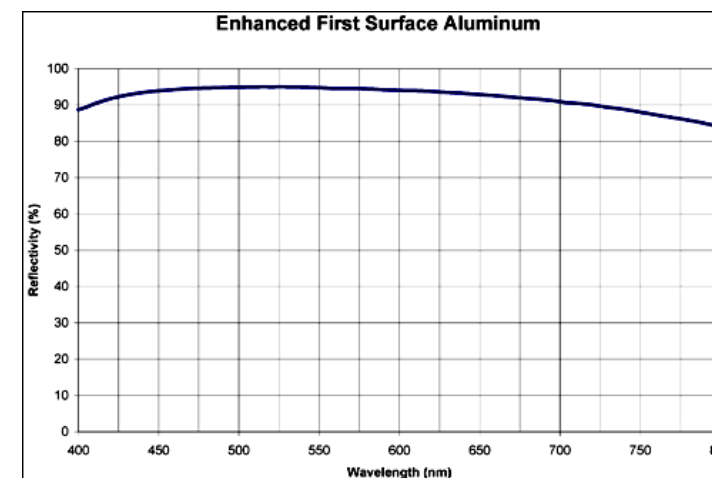
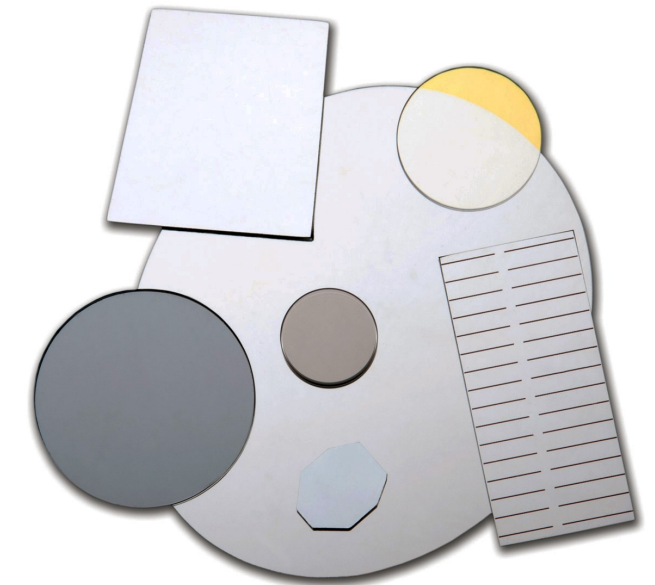
- MIL-C-48497
- MIL-M-1350BC
- MIL-STD-810 C

The substrate is selected float glass with typical flatness and irregularity of 2 waves per inch.

Dimensions:

- Thicknesses: 0.040", 0.060", 0.125", 0.230", 0.380"
- Sheet Sizes: Up to 32" x 50"
- Custom Thickness upon Request

This design is very standard and often uses for demanding telescope and other very high performance imaging applications. Reflectance may be specified for IR wavelengths.



Typical Reflectance (Percent)

Wavelength	45° Angle	15° Angle	30° Angle	45° Angle
400 nm	92	90	92	93
450 nm	93	94	94	94
550 nm	94	95	95	94
600 nm	90	93	93	92