

MODEL RBA8117-101

RBA8117-101 Polycarbonate Mirror



As improvements in the design and performance of RBA products are continuous, specifications may be subject to change without notice. The illustrations and descriptions herein are applicable to production as of the date of this Installation Instructions Sheet. Revised 05/22 © 2022 by RBA Group II/Model RBA8117-101/0522

Description

RBA's range of hard coated polycarbonate mirrors is suitable for safety and security applications, including

- Police Stations
- Mental Health
- Aircraft
- Sports Stadiums
- Prisons
- Youth Detention Centres
- Correctional Facilities
- Security Buildings
- Public Buildings

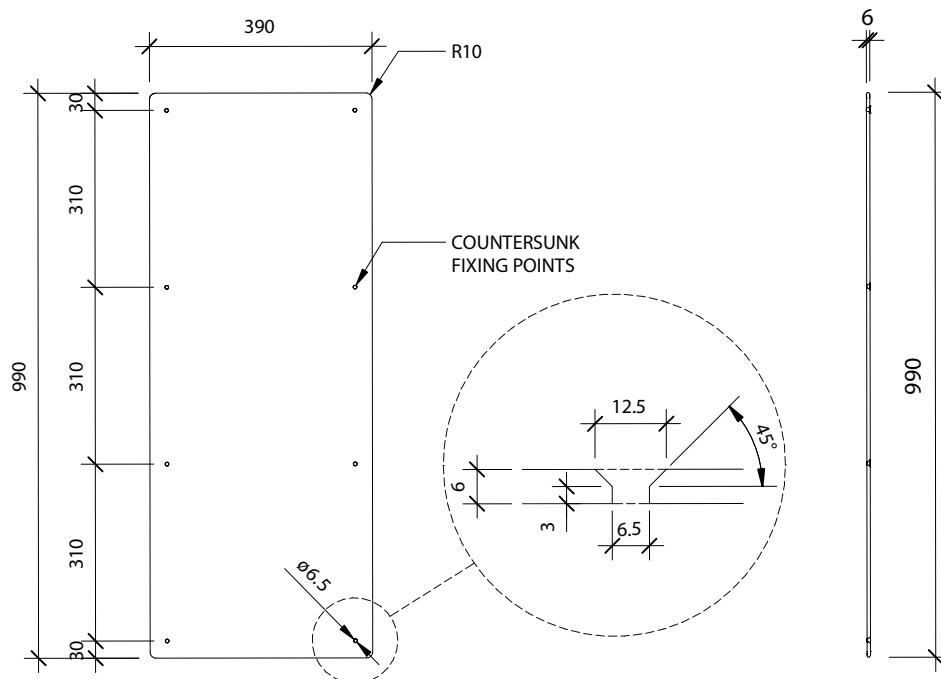
Installation

Mirrored polycarbonate is a reflective film applied to a substrate. When the substrate is affixed to another surface, both of these materials will in time conform to the irregularities of the supporting surface. A non-smooth, non-planar surface will cause localized bending of the mirrored sheet and distortion in the reflective image.

For best results, mirrored sheets should be mounted to a smooth, rigid, sturdy flat backing, which has been coated with a high quality paint or sealant to cover pockets and seal out moisture. RBA polycarbonate mirrors come pre-drilled to suit screws supplied by others. Screw fixings shall be of a counter sunk tamper proof security type, suitable for the material substrate that the mirror to be fitted to. The screw head shall have a smooth tapered underside to sit flush into the machined recesses of the mirror. The screw fixings shall not be overtightened into the mirror recesses as this may result in distortion and damage to the mirror.

- Head Type:** Countersunk
Drive Type: Tamper proof security
Size: M6 bolt or 14g screw
Head diameter: 11.6mm
Head Height: 4.2mm

After screw fixing the mirror to the wall, a bead of non-pick polyurethane sealant should be applied around the circumference to improve ligature and vandal resistance.



Handling

All Polycarbonate mirror sheets are furnished with a protective masking on the top side of the sheet. Do not slide Polycarbonate mirror sheets when transporting. The masking should be left on the sheet during storage and installation to prevent damage. This Polycarbonate mirror is shipped in “ready-to-store” condition. Keep away from excessive heat and keep the original packing intact.

Vertical Storage

If the mirror sheets are to be stored on end, care must be taken to avoid warping, slipping and scratching. If different sizes are to be stored together, make sure the largest pieces are at the bottom, the smallest on top. This will prevent overhang which can lead to warping and reduce the risk of scratching if a slip occurs, or while unpacking. Protect the sheets from dirt and moisture.

Maintenance:

Masking: Each mirrored product is well protected by a durable paint backing and a removable masking on the front. This masking should remain in place to protect the sheets during all phases of transport and installation. Our Polycarbonate mirror sheets should be handled mirror side down, with the masking left on. Care should be taken not to slide sheets against each other.

Removing Masking: If there is a difficulty in removing the masking, use aliphatic naphtha, kerosene or distilled alcohol to moisten the adhesive. Do not use chemicals or sharp objects to remove the masking.

Visual distortion is a function of viewing distance and material thickness. A thicker piece of material will be less flexible and therefore maintain better optical integrity. Correct installation and sufficient material thickness can reduce visual distortion but may not completely eliminate it.

Ceiling and overhead installations are not recommended.

Important note:

If electing to use an adhesive to install the mirror, some may contain solvents such as toluene, ketones and hexane that can attach to the back coating. Adhesives with solvents of 5% or more are not recommended. Since numerous adhesives, cements and mastics are available, they should be tested on expendable pieces of mirror prior to application for at least 72 hours.

Cleaning - Important Note:

Washing: Use a mild soap and a damp soft cloth to wipe the surface of the sheet with light pressure, avoiding the edges of the sheet. To remove grease, oil, or tar deposits on the material, use hexane or kerosene. Do not use window cleaning sprays, kitchen scouring compounds, or other chemicals to clean mirrorized sheets.

Note: This product should be installed by suitably qualified persons in a fit for purpose application, to suitable materials and using suitable fixings and comply with any relevant codes. It should be inspected periodically for signs of wear and tear that may affect performance or safety.

Dimensions are subject to manufacturer's tolerance of +/-10mm. Rough-in should be completed with each fixture.

Important: Installation Instructions are subject to change without notice. Please visit **our websites** for latest revision.

