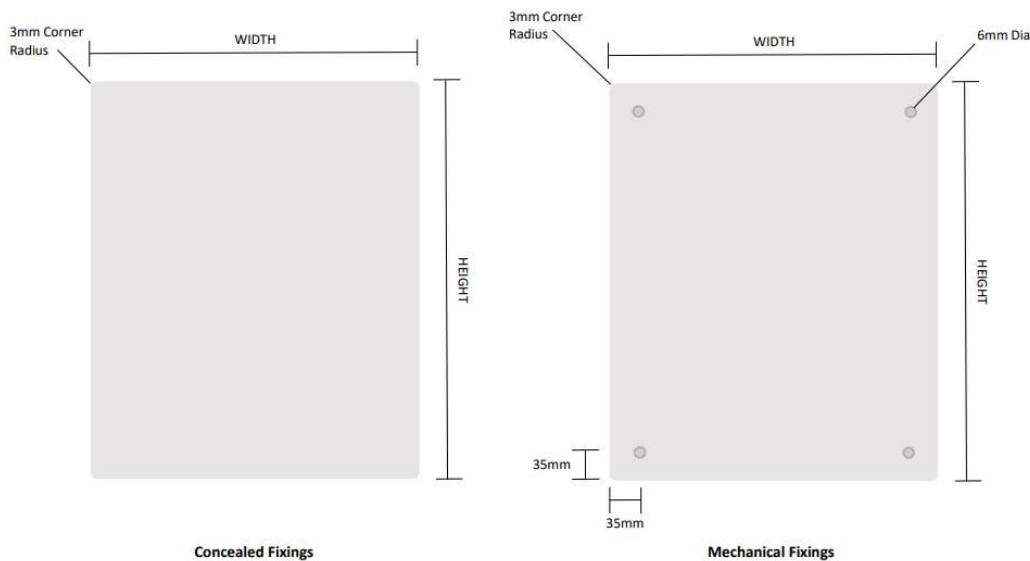




## Clarke's Safety Mirrors Ltd

Tel: 01952 605557 Email: enquiries@csmirrors.co.uk

### Polycarbonate Safety Mirror



### Product Description

Polycarbonate is virtually unbreakable. It is approximately 200 times stronger than glass.

Polycarbonate is used where high impact and fire resistance properties are essential. These mirrors should be used if there is any possibility of self-harm or harm to others.

Polycarbonate is a relatively soft material and therefore cannot be honed into a sharp edge.

### Key Information:

- Available in both 3mm & 6mm thickness.
- Lightweight with a superb reflection.
- Rounded corners and smooth polished edges.
- Supplied with a scratch resistant coating as standard.

### Fixing Options

Fixings can be customised as required. Options include:

- Screw Holes & Dome-Head Mirror Screws (Ref: ASH04/ASH06).
- Screw Holes and Anti-Tamper Stainless Steel Fixing (Ref: SECS4/SECS6)
- Very High Bond Double-Sided Tape (Ref: TAP01)
- Mirror Adhesive (Ref: ADH01)

**Product Specification**

Characteristic	Specification
Material - Mirror	Polycarbonate, Silvered.
Mirror Thickness	Available in 3mm & 6mm.
Edge	Polished
Corner Radius	3mm
Fixing Options	Chrome Plated Dome-Head Screws, Anti-Tamper Stainless Steel Fixings, Very High Bond Tape or Mirror Adhesive.
Surface Coating	Scratch Resistant Coating – Peerless PPC01.

**Polycarbonate Properties\***

Property	Test Method	Units	Values
<b>Physical</b>			
Specific Gravity	ASTM D 792	-	1.2
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	86
Water Absorption, 24 hours	ASTM D 570	%	0.15
<b>Mechanical</b>			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Tensile Strength, Yield	ASTM D 638	psi	9000
Tensile Modulus	ASTM D 638	psi	340,000
Elongation	ASTM D 638	%	110
Flexural Strength	ASTM D 790	psi	13,500
Flexural Modulus	ASTM D 790	psi	345,000
Instrumented Impact @0.125"	ASTM D 3763	ft-lbs	43
Rockwell Hardness	ASTM D 785	-	M70 / R118
<b>Thermal</b>			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	$3.75 \times 10^{-5}$
Coefficient of Thermal Conductivity	ASTM D 177	BTU-in/hr.ft <sup>2</sup> . °F	1.35
Heat Deflection Temperature @ 264psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66psi	ASTM D 648	°F	280
<b>Flammability</b>			
Horizontal Burn, AEB	ASTM D 635	in	<1
Ignition Temperature, Self	ASTM D 1929	°F	1000
Ignition Temperature, Flash	ASTM D 1929	°F	800

\*These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

**National Building Specification (NBS) Information (3mm Thick)**

## MIRRORS

- Manufacturer: Clarke's Safety Mirrors Ltd. Email: enquiries@csmirrors.co.uk
- Material: 3mm Polycarbonate. Scratch resistant coating.
- Quality: Free from tarnishing, discolouration, scratches and other defects visible in the designed viewing conditions.
- Size:
- Backing: Silvered.
- Edges: Polished edges all round.
- Fixings:
- Installation: Accurate with sides vertical.

**National Building Specification (NBS) Information (6mm Thick)**

## MIRRORS

- Manufacturer: Clarke's Safety Mirrors Ltd. Email: enquiries@csmirrors.co.uk
- Material: 6mm Polycarbonate. Scratch resistant coating.
- Quality: Free from tarnishing, discolouration, scratches and other defects visible in the designed viewing conditions.
- Size:
- Backing: Silvered.
- Edges: Polished edges all round.
- Fixings:
- Installation: Accurate with sides vertical.