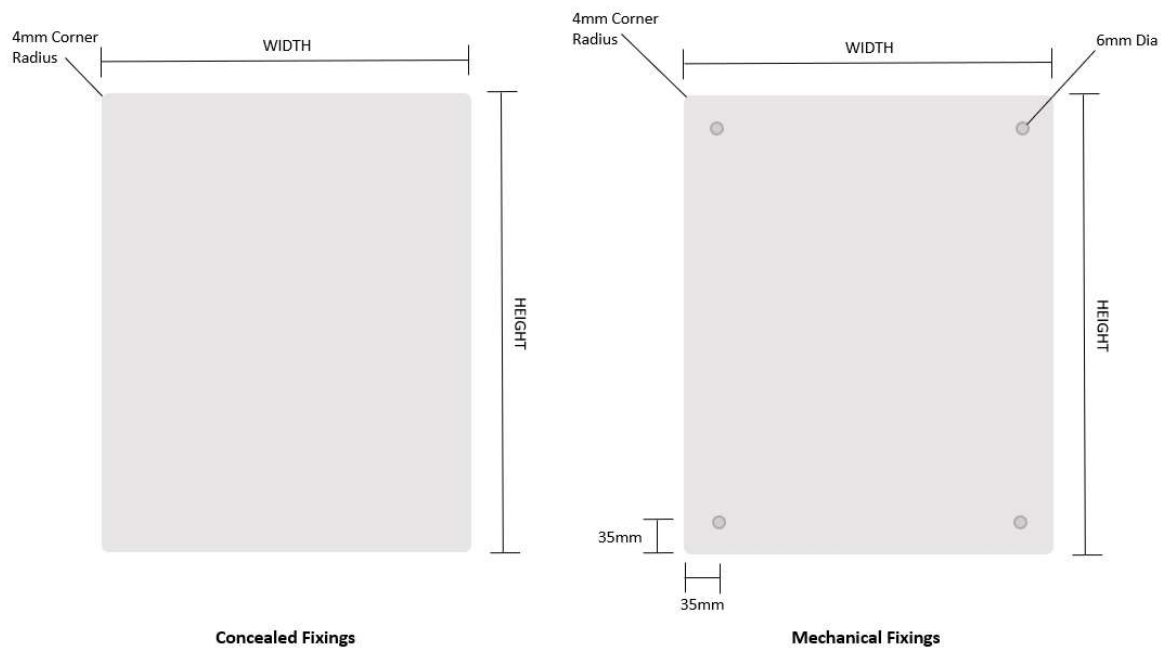




Clarke's Safety Mirrors Ltd

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Polycarbonate Safety Mirror



Product Description

Polycarbonate mirrors are used where high impact and fire resistance properties are essential. These mirrors offer a superb reflection and are suitable for fixing to any flat substrate.

Our polycarbonate safety mirrors are virtually unbreakable. Approximately 200 times stronger than glass.

Key Information:

- Available in both 3mm & 6mm thickness.
- Virtually unbreakable.
- Manufactured with rounded corners and smooth polished edges.
- Supplied with a scratch resistant coating as standard.
- Customisable fixing options.
- Made to measure service available.

Scratch Resistant Coating:

These polycarbonate mirrors are coated with Peeraguard Clear PPC01. Benefits of this scratch resistant coating include:

- Abrasion Resistance – Scuffs, chips and scratches are vastly reduced in both quantity and severity.
- Optical Clarity – Sprayed on and UV Cured; no visible flow lines leave a clear and transparent finish.
- Chemical Resistance – Can be cleaned with any common or most industrial cleaning chemical without worry of damage.

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)

Standard Sizes & Product Codes

Mirror Size	3mm Thick Code	6mm Thick Code
300 x 300mm	PA3030	PA3030-6
450 x 300mm	PA4530	PA4530-6
650 x 300mm	PA6530	PA6530-6
800 x 300mm	PA8030	PA8030-6
900 x 300mm	PA9030	PA9030-6
1000 x 300mm	PA10030	PA10030-6
600 x 400mm	PA6040	PA6040-6
1500 x 400mm	PA15040	PA15040-6
1600 x 400mm	PA16040	PA16040-6
600 x 450mm	PA6045	PA6045-6
1000 x 450mm	PA10045	PA10045-6
1200 x 450mm	PA12045	PA12045-6
1300 x 500mm	PA13050	PA13050-6
600 x 600mm	PA6060	PA6060-6
1200 x 600mm	PA12060	PA12060-6
1000 x 700mm		PA10070-6
380mm Dia Round	PA380D	PA380D-6
595mm Dia Round	PA595D	PA595D-6
Made to Measure	PAXXXX	

Product Specification

Characteristic	Specification
Material - Mirror	Polycarbonate, Silvered. Scratch Resistant Coating.
Mirror Thickness	Available in 3mm & 6mm.
Edge	Polished
Corner Radius	4mm
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
Physical			
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
Mechanical			
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
Thermal			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75×10^{-5}
Coefficient of Thermal Conductivity	ASTM D 177	BTU-in/hr.ft ² . °F	1.35
Heat Deflection Temperature @ 264psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66psi	ASTM D 648	°F	280
Flammability			
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.