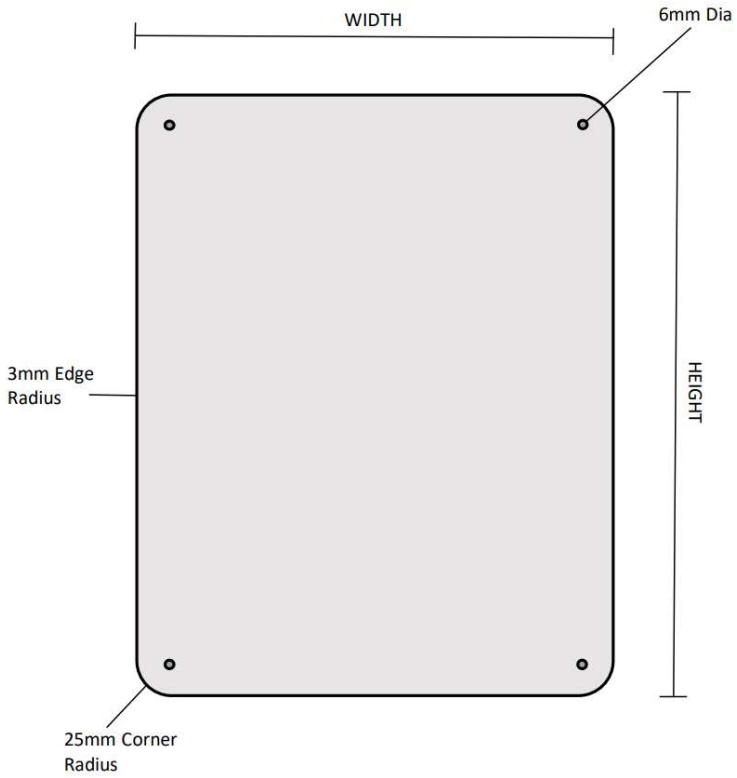
Clarke's Safety Mirrors Ltd

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

Flat Ligature Resistant Safety Mirror



Product Description

A virtually unbreakable polycarbonate safety mirror designed specifically for use in the harsh corrections and mental health environment. The ligature resistant design improves safety in environments where there is a risk of self-harm.

Key Information:

- Supplied with a scratch resistant coating as standard. Offers improved abrasion and chemical resistance.
- Manufactured from 6mm thick polycarbonate. This is approximately 200 x stronger than glass.
- Features 25mm radius corners, smooth polished edges and countersunk screw holes.
- Fixed with anti-tamper stainless steel fixings and double-sided tape around the perimeter to prevent insertions.
- Designed with a 3mm edge radius with a flat section to facilitate anti-pick mastic.

Product Specification

Characteristic	Specification
Material	Polycarbonate, Silvered.
Mirror Thickness	6mm
Edge Radius	3mm
Corner Radius	25mm
Fixings	Very High Bond Tape and Countersunk Stainless Steel Anti-Tamper Screws.
Surface Coating	Scratch Resistant Coating – Peerless PPC01.

Polycarbonate Mirror 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.