

ENVIRONMENTALLY-
FRIENDLY MIRROR



GLASS UNLIMITED

MIROX 3G

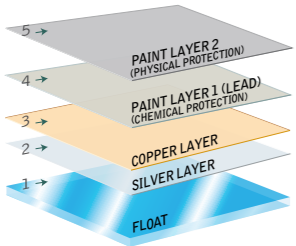
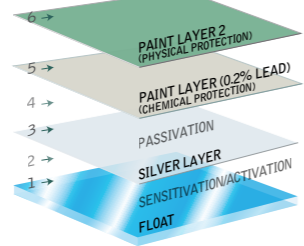
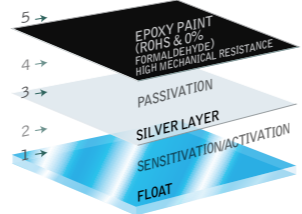
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ONE STEP CLOSER TO PERFECTION

MIROX 3G is a unique product and AGC Flat Glass Europe holds the exclusive patent for the manufacturing process. It is the third generation in a range of mirrors that have made significant progress in terms of quality, ecology, resistance, handling and performance.

MIROX 3G represents a major development for manufacturers, processors, end users and the environment.

GENERATION 1 MIROX	GENERATION 2 MIROX NEW GENERATION ECOLOGICAL	GENERATION 3 MIROX 3G
		
Copper + lead present	<ul style="list-style-type: none"> Copper removed Lead content reduced significantly 	<ul style="list-style-type: none"> Copper removed Lead content reduced (ROHS) Formaldehydes removed
Resistance to corrosion: Average	Excellent (green-coloured protective paint on the rear of the mirror)	Excellent (new dark grey-coloured epoxy protective paint)
Resistance to scratches: Average	Average	Excellent (due to the new dark grey-coloured epoxy protective paint)
Adhesion: Adhesive tapes	Glues, silicones and adhesive tapes	Twice as many compatible adhesives

MIROX 3G has optimum silvering guaranteeing a perfect reflection.
This new mirror is available in clear and coloured versions (bronze, green, PrivaBlue, grey, black) and also in the new extra clear Clearvision float glass.

MIROX 3G, the most high-tech mirror ever developed

- 0% copper
- 50% less lead than MNGE (content reduced from 0.2% to less than 0.1%)
- 70% less solvents than MNGE
- 10 times more resistant to corrosion in accordance with standards (CASS TEST)
- 3 times more resistant to scratches than standard mirrors

An environmentally-friendly mirror

The current production line for MNGE mirrors has, amongst other things, made it possible to:

- eliminate the copper layer
- reduce ammonia waste by 90%

MIROX 3G IS EVEN MORE ENVIRONMENTALLY FRIENDLY

Compared with MNGE, the protective paint contains:

- 50% less lead (content reduced from 0.2% to 0.1%)
- 70% less solvents
- 0% formaldehydes (colourless gas, very harmful irritant)

Due to this progress, MIROX 3G mirrors meet the criteria stipulated by the European Directive on Restriction of Hazardous Substances (ROHS) that aims to reduce the use of certain harmful substances, including lead, in production processes. Consequently, AGC Flat Glass Europe is, in the short term, the only company that will develop its entire mirror production process in accordance with the ROHS directive.

A mirror that is resistant to scratches, corrosion and cleaning products

3 TIMES MORE RESISTANT TO SCRATCHES THAN STANDARD MIRRORS

- The protective epoxy paint coating on the rear of the mirror is highly resistant
- The risk of scratches during handling is therefore reduced

10 TIMES MORE RESISTANT TO CORROSION THAN STANDARD EN 1036

- Less risk of corrosion in the long term due to oxidation of the silver layer at the edges or around scratches
- Long life span
- Highly resistant to corrosion caused by the natural atmosphere and humidity

RESISTANT TO CHEMICAL CORROSION CAUSED BY CLEANING PRODUCTS

- MIROX 3G is the only mirror that is resistant to virtually all existing cleaning products
- The list of cleaning products tested on MIROX 3G is available from www.YourGlass.com



A functional mirror

COMPATIBLE WITH TWICE AS MANY ADHESIVES

Four types of adhesives are recommended for installation of MIROX 3G:
Alcoxy, Oxime, MS Polymer and tapes.

Fitters now have twice as much choice when it comes to selecting an adhesive: further information is provided in the MIROX 3G installation guide available on our website at www.YourGlass.com. This guide contains a list of adhesive brands recommended by AGC Flat Glass Europe.

MORE ATTRACTIVE

- fewer paint splinters when drilling
- innovation: MIROX 3G is available not only with clear and coloured float glass but also as extra clear Clearvision float glass



Quality control

MIROX 3G MIRRORS ARE TESTED THREE TIMES

- quality of float glass tested using lasers
- thorough quality tests during production
- optical test using a camera at the end of the production line

Each MIROX 3G mirror meets the strictest of requirements in terms of reflection, accuracy and life span. All AGC Flat Glass Europe entities are committed to following the same manufacturing process in line with the same strict quality criteria. This standard process ensures that all mirrors are of identical quality wherever they are produced.

DISTINCTIVE MARKING

A black MIROX 3G Ecological marking is applied to the rear side of the glass to help you easily identify the new MIROX 3G mirrors.

You are therefore guaranteed that you have the latest patented technology offered by AGC Flat Glass Europe.

MIROX 3G

MIROX 3G SAFE*, a safety mirror

MIROX 3G IS AVAILABLE IN SAFE

A SAFE polypropylene film is applied to the back of the mirror as a safety measure. If the glass is broken accidentally, the glass shards remain attached to the plastic film. This helps prevent injury.

The SAFE and SAFE+ coatings meet European safety standards under EN12600.

*There are two types of safety film: SAFE and SAFE+.
SAFE is designed for fixed solutions/SAFE+ is designed for DLF sheets.



Technology

- Colours and thicknesses...
- Applications...
- Summary of performances...

COLOURS AND THICKNESSES

	THICKNESSES (mm)					Available as SAFE	Adhesives for mounting
	1,9	3	4	5	6		
Clear	+	+	+	+	+	+	Alcoxy-, oxime- and MS polymer- based silicones and adhesive tapes
Bronze		+	+	+	+	+	
Grey		+	+	+	+	+	
Black			+	+		+	
PrivaBlue			+	+		+	
Green			+	+		+	

Dimensions : see www.YourGlass.com
MIROX 3G Clearvision (non-standard): available upon request.

APPLICATIONS

- Standard applications such as wall cladding, furniture and mirror cladding
- Due to its high resistance to corrosion, MIROX 3G can be used in bathrooms and kitchens
- Availability in SAFE version means that MIROX 3G can be used in large dimensions in public or private areas

MIROX 3G - SUMMARY OF PERFORMANCE AND TECHNICAL PROPERTIES

	NORME EN 1036	MIROX	MIROX MNGE	MIROX 3G
BEHAVIOUR	Maximum corrosion around the edges after CASS test	2,500	500	250
	Burn marks after CASS test	2<3 mm	<= 1	<=1
	Maximum corrosion around the edges after salt spray test	1,500	200	50
	Maximum corrosion around the edges after humidity test	200	0	0
	Milkiness		YES	YES
	Resistance to ambient humidity		AVERAGE	GOOD
	Resistance to stagnant water		NO	NO
	Resistance to steam		NO	NO
	Resistance to heat			120 ° C.
	Hardness of paint (Persoz)			125
Resistance to scratches (Clemens)			400 g	
RESISTANCE TO ADHESIVES	Oxime		YES	YES
	Alcoxy		NO	YES
	Rubber (tapes)		NO	NO
	MS polymer		NO	NO
	Acetic acid		NO	NO
ECOLOGY	Copper protection layer		YES	NO
	Lead content in the paint		> 8%	< 0.2%
CLEANING PRODUCTS	Resistance to ammonia		1 day	> 7 days
SHAPING	Edge grinding		YES	YES
	Brilliant cut		YES	YES
	Grounding		YES	YES
	Drilling		YES	YES
	Inserts and notches		YES	YES
SAFETY	Safe film		YES	YES
	PVB laminated		NO	NO
	Toughened		NO	NO

Why choose AGC Flat Glass Europe?

THE BEST TECHNOLOGY AT THE VERY CORE OF THE MIRROR

Glaverbel, now renamed AGC Flat Glass Europe, was the first company to develop a cutting-edge mirror technology, MIROX, that has become a global benchmark.

Anticipating changes, AGC Flat Glass Europe, constantly strives to offer the best solutions – and these efforts have helped it become a recognised expert.

MIROX 3G, the result of this expertise, will become your benchmark for mirrors.

MUCH MORE THAN JUST MIRRORS - AGC FLAT GLASS EUROPE ALSO OFFERS VALUABLE EXTENDED SERVICES

Advice, quick answers, constant monitoring from the time the order is placed until it is delivered...

AGC Flat Glass Europe provides a comprehensive, efficient, personalised service that genuinely adds value to its mirrors.



www.yourglass.com

GLASS UNLIMITED

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AGC Flat Glass Europe has representatives worldwide. See www.YourGlass.com for further addresses.