



**MIROX 4GREEN+
& MIROX MNGE**

Ecological mirrors

AGC

Your Dreams, Our Challenge

AGC Glass Europe introduces...



...its ecological mirror range



MIROX 4GREEN+ & MIROX MNGE

- Quality, health & environmental protection - 04
- Improving well-being at home & at work - 06
- Taking interiors to the next level - 07
- Different colours to choose from - 09
- Technical specifications - 10

Quality, health & environmental protection

— MIROX 4GREEN+ & MIROX MNGE —

AGC's range of environmentally friendly mirrors help preserve air quality in the home while eliminating the use of many toxic products, including copper, ammonia and lead.

Mirox 4Green+ is the latest version of our premium lead-free mirror, featuring a water-based protective coating and even lower emissions of volatile organic compounds (VOCs). This fully opaque product remains the ideal solution for backlit applications.

With Mirox 4Green+, AGC's focus on quality has not been compromised. And the same goes for Mirox MNGE, a product renowned for its superior quality and the mainstay of the range. For the design conscious, both mirrors are available in four colours: Clear, Clearvision, Bronze and Grey.



CROATIA BATHROOM, HOTEL ADRIATIC, MIROX MNGE CLEAR

Improving well-being at home & at work

MIROX 4GREEN+ & MIROX MNGE

What's so special about it?	What does this mean for you?	Mirox MNGE	Mirox 4Green+
Low VOC emissions	<ul style="list-style-type: none"> Close to zero indoor emissions of volatile organic compounds (A+*, per French Decree No. 2011-321), including very low levels of formaldehyde Good air quality maintained inside the building 	✓	✓
Water-based paint	<ul style="list-style-type: none"> Paint contains less than 10% organic solvents and no aromatic solvents such as xylene Contributes to low VOC emissions and improves product sustainability 		✓
No added-lead paint	<ul style="list-style-type: none"> No lead intentionally added Contains only limited lead contamination (0.004%) from other natural materials used for the production of the paint Complies with RoHS** Directive 2011/65/EU 		✓
Opaque paint	<ul style="list-style-type: none"> Delivers superior opacity, which is a key feature when the mirror is backlit using LED strips 		✓
Highly resistant to corrosion	<ul style="list-style-type: none"> High-quality paint providing excellent anti-corrosion protection for the silver layer Outperforms EN 1036 (see information on page 10) 	✓	✓
Compatible with AGC's FIX-IN bonding solutions	<ul style="list-style-type: none"> Facilitates the installation process for the customer or fitter (see information on page 7) 	✓	✓
Easy to process	<ul style="list-style-type: none"> Since it is based on the same technology, Mirox 4Green+ is as easy to process as Mirox MNGE 	✓	✓



Mirox MNGE is Cradle to Cradle® Certified Bronze. Mirox 4Green+ has a lower environmental impact than Mirox MNGE. It will go through the same certification process as Mirox MNGE.

* The A+ category corresponds to the highest level of performance or the lowest category of VOC emissions.
 ** RoHS: Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Taking interiors to the next level

MIROX 4GREEN+ & MIROX MNGE

What can you use it for? | Be inspired...

Furniture – Tables, shelves, fixed and sliding doors for cupboards and wardrobes, display cases and glass boxes, etc.

Wall cladding – Bathrooms, shopping malls, restaurants, schools, hotels, sport facilities, elevators areas, corridors, etc.

Doors – Sliding doors for furniture

For backlit applications, AGC recommends using Mirox 4Green+ because it guarantees full opacity. In fact, by keeping light diffusion within the sandblasted part of the glass, the fully opaque Mirox 4Green+ delivers perfect aesthetics.



AGC's detailed processing and installation guides, along with its complete range of FIX-IN products and components, enable fitters to install and bond our glass products perfectly in interior applications. All technical documents can be downloaded from www.agc-yourglass.com. FIX-IN products can be ordered online at www.agc-store.com.



Clearvision



Clear



Grey



Bronze

BELGIUM FROM LEFT TO RIGHT: MIROX 4GREEN+ CLEARVISION, CLEAR, GREY AND BRONZE

Different colours to choose from

MIROX 4GREEN+ & MIROX MNGE

Clear Options

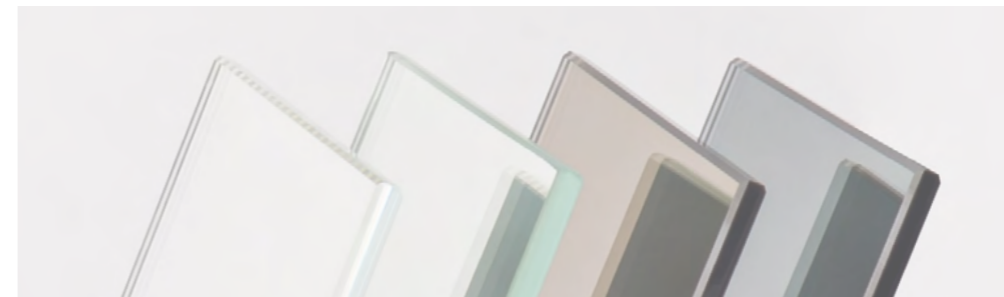
Clearvision
Highly neutral float base for pure aesthetics

Clear
Normal float base

Coloured Options

Bronze

Grey



Thicknesses
3, 4, 5, 6 and 8 mm.

Dimensions
from 2000 x 3210 mm to 6000 x 3210 mm.

For exact availability for each colour, thickness and size, please contact your local sales representative or check the product catalogue at <https://product-catalogue.agc-yourglass.com/en>



In addition to the Mirox range, **Miold Morena** is ideal for designers and interior decorators seeking a new mirror with a unique antique look. The special appearance of this float glass mirror is achieved through the controlled oxidation of the silver coating. Each mirror is unique since they are all produced manually. For retro renovations of hotels, bedrooms, churches, museums and old buildings, this vintage-look mirror is the ideal solution, giving any space an old-time splendour. More information at: www.agc-yourglass.com.

Technical specifications

The durability of Mirox MNGE and Mirox 4Green+ mirrors has been assessed via accelerated ageing tests in compliance with European standard EN 1036.

			EN 1036 standard	Mirox MNGE	Mirox 4Green+
Behaviour ¹	CASS Test ² ISO 9227	Maximum edge corrosion (µm)	1500	250	
	Neutral salt spray test ³ ISO 9227	Maximum edge corrosion (µm)	1000	50	
	Condensation water test	Maximum edge corrosion (µm)	200	50	
Resistance to adhesives	Oxime			Yes	
	Alcoxy			Yes	
	Rubber			No	
	MS polymer			Yes	
	Acetic Acid			No	
Ecology	Copper protection layer			No	
	Lead content in the paint			< 0.2% (or 2.000 ppm)	0.004% (or 40 ppm)
	Solvent content in the liquid paint (g/l)			460	100

1. For more information on the technical specifications of those tests, please consult our Technical Data Sheet at www.agc-yourglass.com.
2. The CASS test is conducted for 120 hours (5 days). Edge corrosion is measured on two vertical edges of mirror samples.
3. The neutral salt spray test and condensation water test are conducted for 480 hours (20 days). Edge corrosion is measured on two vertical edges of mirror samples.

What are your processing options?

Special Options

Safety	SAFE+ film	Yes	Mirox MNGE and Mirox 4Green+ SAFE+ comply with EN 12600 – Class 2B2 (more information below).
	Laminating	No	
	Toughening	No	
Cutting	Straight or circular	Yes	See the Processing Guide at www.agc-yourglass.com .
Shaping and edge finishing	Edge grinding	Yes	See the Processing Guide at www.agc-yourglass.com .
	Grinding	Yes	
	Drilling	Yes	
	Notches	Yes	

Special option...

...and its benefit

SAFE+	<ul style="list-style-type: none"> – For extra safety a film can be applied to the painted side of the Mirox mirror. – The film has two purposes: <ol style="list-style-type: none"> 1. If the glass breaks, the shards will stick to the film, preventing injury and any further damage. 2. It protects the painted surface of the glass from scratches.
-------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Other features

Your benefits

Resistance in wet/moist/humid areas	Mirox MNGE and Mirox 4Green+ can be used indoors in wet/moist/humid areas (bathrooms and kitchens) but cannot be immersed in water. The back of the mirror must be protected from water and humidity while allowing or ensuring sufficient ventilation.
Bonding/mounting	Easy and safe to install.

AGC provides technical support for glass processors via its dedicated Technical Advisory Service (TAS). Please make sure to carefully read the Mirox MNGE and Mirox 4Green+ Processing Guide which details all the steps that must be followed to ensure correct processing and handling. The guide is available at www.agc-yourglass.com.



AGC GLASS EUROPE, A EUROPEAN LEADER IN FLAT GLASS

Based in Louvain-la-Neuve (Belgium), AGC Glass Europe produces, processes and markets flat glass for the construction industry (external glazing and interior decoration), car manufacture and other industrial sectors (transport, solar power and high-tech). It is the European branch of AGC, a world leader in flat glass. It has over 100 sites throughout Europe.

More information on www.agc-yourglass.com.

AUSTRIA

AGC Glass Europe
T: +49 39 205 450 446
DACH.sales@agc.com

BELGIUM

AGC Glass Europe
T: +32 2 409 30 00
sales.belux@agc.com

BULGARIA / MACEDONIA

AGC Flat Glass Bulgaria
T: +359 2 8500 255
bulgaria@agc.com

CROATIA / SLOVENIA / BOSNIA & HERZEGOVINA

AGC Flat Glass Adriatic
T: +385 1 6117 942
adriatic@agc.com

CZECH REPUBLIC / SLOVAKIA

AGC Flat Glass Czech
T: +420 417 50 11 11
czech@agc.com

DENMARK

AGC Glass Europe
T: +49 39 205 450 446
DACH.sales@agc.com

ESTONIA

AGC Flat Glass Baltic
T: +372 66 799 15
estonia@agc.com

FINLAND

AGC Flat Glass Suomi
T: +358 9 43 66 310
sales.suomi@agc.com

FRANCE

AGC Glass France
T: 0805 20 00 07
contact.france@agc.com

GERMANY

AGC Glass Europe
T: +49 39 205 450 446
DACH.sales@agc.com

GREECE / MALTA / ALBANIA

AGC Flat Glass Hellas
T: +30 210 666 9561
sales.hellas@agc.com

HUNGARY

AGC Glass Hungary
T: +36 20 9732 987
hungary@agc.com

ITALY

AGC Flat Glass Italia
T: +39 02 62 487 111
market.italia@agc.com

LATVIA

AGC Flat Glass Baltic
T: +371 6 713 93 59
latvia@agc.com

LITHUANIA

AGC Flat Glass Baltic
T: +370 37 451 566
lithuania@agc.com

NETHERLANDS

AGC Nederland Holding B.V.
T: +31 547 286 868
marketing.communicatie@agc.com

POLAND

AGC Glass Poland
T: +48 22 872 02 23
polska@agc.com

ROMANIA

AGC Flat Glass Romania
T: +40 318 05 32 61
romania@agc.com

SERBIA / MONTENEGRO

AGC Flat Glass Jug
T: +381 11 30 96 232
jug@agc.com

SPAIN / PORTUGAL

AGC Flat Glass Ibérica
T: +34 93 46 70760
sales.iberica@agc.com

SWEDEN / NORWAY

AGC Flat Glass Svenska
T: +46 8 768 40 80
sales.svenska@agc.com

SWITZERLAND

AGC Glass Europe
T: +49 39 205 450 446
DACH.sales@agc.com

UKRAINE

AGC Flat Glass Ukraine
T: +380 44 230 60 16
sales.ukraine@agc.com

UNITED KINGDOM

AGC Glass UK
T: +44 1788 53 53 53
sales.uk@agc.com

OTHER COUNTRIES

AGC Glass Europe
T: +32 2 409 30 00
sales.headquarters@agc.com