

AGC Glass Europe introduces...



...its environmental mirror range



MIROX 4GREEN & MNGE

Quality, perfection &	
environmental protection	- 04
Aiming for peak performance	- 06
Superior reflections in your interiors	- 07
Choose from among different colours	- 09
Technical specifications	- 10

Quality, perfection & environmental protection

— MIROX 4GREEN & MNGE —

In line with the company's sustainable approach, AGC offers an enhanced range of ecological mirrors. In addition to the well-known Mirox MNGE, a high-quality standard mirror using low-lead paints, AGC now goes one step further by offering Mirox 4Green, a Premium mirror, that stands out for its use of lead-free paints. Both products deliver the same high-quality performance but Mirox 4Green is ideal for backlit applications thanks to its fully opaque paint.

In addition to eliminating large quantities of toxic products, such as copper, ammonia and lead, AGC puts a great deal of effort into developing mirrors that preserve our indoor air quality. The Mirox range emits very low quantities of volatile organic compounds (VOCs), including very low levels of formaldehyde. Both Mirox MNGE and Mirox 4Green are available in five colours: Clear, Clearvision, Bronze, Grey and Black.



Aiming for peak performance

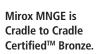
— MIROX 4GREEN & MNGE —

What's so special about it?	What does this mean for you?	Mirox MNGE	Mirox 4Green	
Low VOC emissions	 Close to zero indoor emissions of volatile organic compounds (A+*, per French Decree No. 2011-321), including very low levels of formaldehyde Good quality of air inside the building maintained 	\bigcirc	\bigcirc	
Special double-layer paint	 Provides excellent anti-corrosion protection for the silver layer outperforming EN 1036 (see information on page 10) 	\bigcirc	\bigcirc	
· ·	 No lead intentionally added Contains only limited lead contamination (0.004%) from other natural materials used for the production of the paint Compliant with RoHS** Directive 2011/65/EU 		\bigcirc	
Opaque paint	Offers superior opacity, which is a key feature when the mirror is backlit using LED strips		\bigcirc	
Compatible with AGC's FIX-IN bonding solutions	 Facilitates the installation process for the customer or fitter 	\bigcirc	\bigcirc	
Easy to process	 Based on the same technology, Mirox 4Green is as easy to process as Mirox MNGE 	\bigcirc	\bigcirc	

^{*} 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.







Superior reflections in your interiors

MIROX 4GREEN & MNGE

What can you use it for?

Be inspired...

Furniture — Partitions, tables, shelves, fixed and sliding doors for cupboards and wardrobes, display cases and glass boxes, etc.

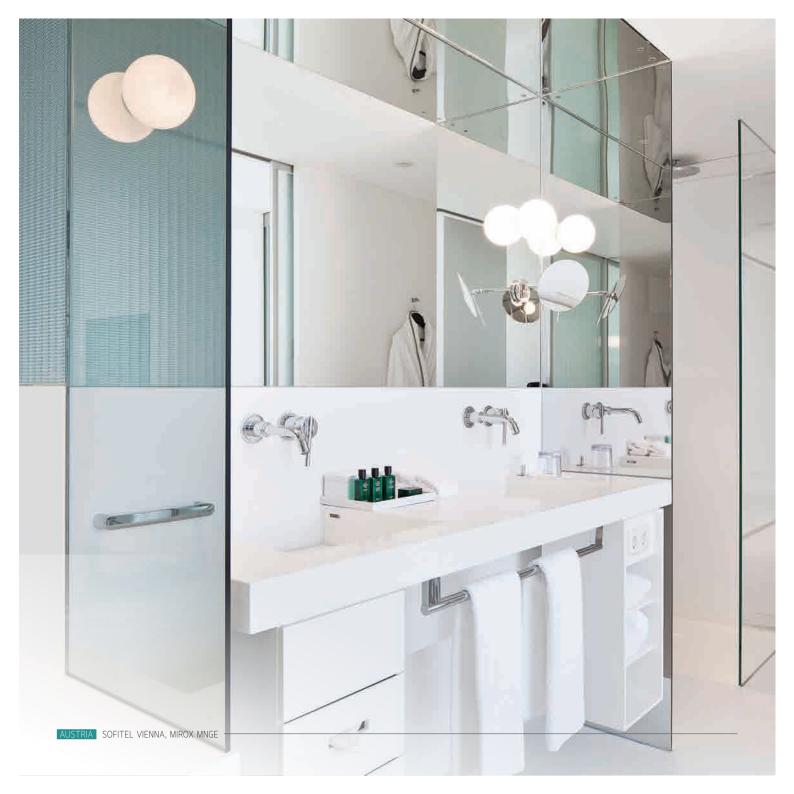
Wall cladding — Bathrooms, shopping malls, restaurants, schools, hotels, elevators areas, etc.

Doors – Sliding doors for furniture

For backlit applications, AGC recommends using Mirox 4Green because it guarantees full opacity.



AGC provides detailed processing and installation guides, as well as a complete range of FIX-IN products and components for glass bonding in interior applications. AGC also provides an Installation Guide and animations explaining how to install glass perfectly. All technical documents can be downloaded from www.agc-yourglass.com. FIX-IN products can be ordered online at www.agc-store.com.



MIROX 4GREEN & MNGE





Highly neutral float base for pure aesthetics

Coloured Options



Thicknesses

3, 4, 5, 6 and 8 mm.

Dimensions

from 2000 x 3210 mm to 6000 x 3210 mm.

Special option... ...and its benefit

SAFE+ - For extra safety a film can be applied to the painted side of the Mirox mirror.

- The film has two purposes:
 - 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.

Technical specifications

The durability of Mirox MNGE and Mirox 4Green mirrors is determined by several accelerated ageing tests in compliance with European standard EN 1036.

			EN 1036 standard	Mirox MNGE	Mirox 4Green
1	CASS Test ¹ ISO 9227	Maximum edge corrosion (µm)	1500	250	
	Neutral salt spray test ² ISO 9227	Maximum edge corrosion (μm)	1000	5	0
	Condensation water test	Maximum edge corrosion (µm)	200	5	0
Resistance	Oxime			Y	es
to adhesives	Alcoxy			Y	es
	Rubber			N	lo
	MS polymer			Y	es
	Acetic Acid			N	lo
Ecology	Copper protection layer			N	lo
	Lead content in the paint			< 0.3% (or 3.000 ppm)	0.004% (or 40 ppm)
Cleaning products	Resistance to ammonia			> 7	days

^{1.} CASS test is conducted for 120 hours (5 days). Edge corrosion is measured on two vertical edges of mirror samples.

^{2.} 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 p	processing options?		Special Options
Safety	SAFE+ film	Yes	Mirox MNGE and Mirox 4Green SAFE+ comply with EN 12600 (see "Special options" on page 9).
	Laminating	No	
	Toughening	No	
Cutting	Straight or circular	Yes	See the Processing Guide on www.agc-yourglass.com.
Shaping and edge finishing	Edge grinding	Yes	
	Grinding	Yes	Soo the Proceeding Guide on waway are vourglass com
	Drilling	Yes	See the Processing Guide on www.agc-yourglass.com.
	Notches	Yes	

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. Mirox MNGE and Mirox 4Green must be protected from water infiltrating the back of the glass (use silicones for joints).
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 solar power applications. It is the European branch of AGC, the world's leading producer of flat glass. It has over 100 sites throughout Europe, from Spain to Russia.

AUSTRIA

AGC Interpane T +49 39 205 450 440 - F +49 39 205 450 449 igd@interpane.com

AGC BLUHM & PLATE Glas Vertrieb GmbH T +49 40 67 08 84-38 - F +49 40 670 88 430 info@bluhm de

BELGIUM

AGC Glass Europe T +32 2 409 30 00 - F +32 2 672 44 62 sales.belux@eu.agc.com

BULGARIA / MACEDONIA

AGC Flat Glass Bulgaria T +359 2 8500 255 - F +359 2 8500 256 bulgaria@eu.agc.com

CROATIA / SLOVENIA / BOSNIA & HFR7FGOVINA

AGC Flat Glass Adriatic T +385 1 6117 942 - F +385 1 6117 943 adriatic@eu.agc.com

CZECH REPUBLIC / SLOVAKIA

AGC Flat Glass Czech T +420 417 50 11 11 - F +420 417 502 121 czech@eu.agc.com

ESTONIA

AGC Flat Glass Baltic T +372 66 799 15 - F +372 66 799 16 estonia@eu.agc.com

FINI AND

AGC Flat Glass Suomi T +358 9 43 66 310 - F +358 9 43 66 3111 sales.suomi@eu.agc.com

FRANCE

AGC Glass France T 0805 20 00 07 - F +33 1 57 58 30 74 contact.france@eu.agc.com

GERMANY

AGC Interpane T +49 39 205 450 440 - F +49 39 205 450 449 T +48 22 872 02 23 - F +48 22 872 97 60 igd@interpane.com

AGC BLUHM & PLATE Glas Vertrieb GmbH T +49 40 67 08 84-38 - F +49 40 670 88 430 info@bluhm.de

GREECE / MALTA / ALBANIA

AGC Flat Glass Hellas T +30 210 666 9561 - F +30 210 666 9732 sales.hellas@eu.agc.com

HUNGARY

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

ITALY

AGC Flat Glass Italia T +39 02 626 90 110 - F +39 02 65 70 101 market.italia@eu.agc.com

LATVIA

AGC Flat Glass Baltic T +371 6 713 93 59 - F +371 6 713 95 49 latvia@eu.agc.com

LITHUANIA

AGC Flat Glass Baltic T +370 37 451 566 - F +370 37 451 757 lithuania@eu.agc.com

NETHERLANDS

AGC Nederland Holding B.V. T +31 344 67 97 04 sales.nederland@eu.agc.com

POLAND

AGC Glass Poland polska@eu.agc.com

ROMANIA

AGC Flat Glass Romania T +40 318 05 32 61 - F +40 318 05 32 62 romania@eu.agc.com

RUSSIA

AGC Glass Russia T +7 495 411 65 65 - F +7 495 411 65 64 sales.russia@eu.agc.com

SERBIA / MONTENEGRO

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

SPAIN / PORTUGAL

AGC Flat Glass Ibérica T +34 93 46 70760 - F +34 93 46 70770 sales.iberica@eu.agc.com

SWEDEN / NORWAY / DENMARK

AGC Flat Glass Svenska T +46 8 768 40 80 - F +46 8 768 40 81 sales.svenska@eu.agc.com

SWITZERLAND

AGC Interpane T +49 39 205 450 440 - F +49 39 205 450 449 igd@interpane.com

AGC BLUHM & PLATE Glas Vertrieb GmbH T +49 40 67 08 84-38 - F +49 40 670 88 430 info@bluhm.de

UKRAINE

AGC Flat Glass Ukraine T +380 44 230 60 16 - F +380 44 498 35 03 sales.ukraine@eu.agc.com

UNITED KINGDOM

AGC Flat Glass UK T +44 1788 53 53 53 - F +44 1788 56 08 53 sales.uk@eu.agc.com

OTHER COUNTRIES

AGC Glass Europe T+32 2 409 30 00 - F+32 2 672 44 62 sales.headquarters@eu.agc.com

