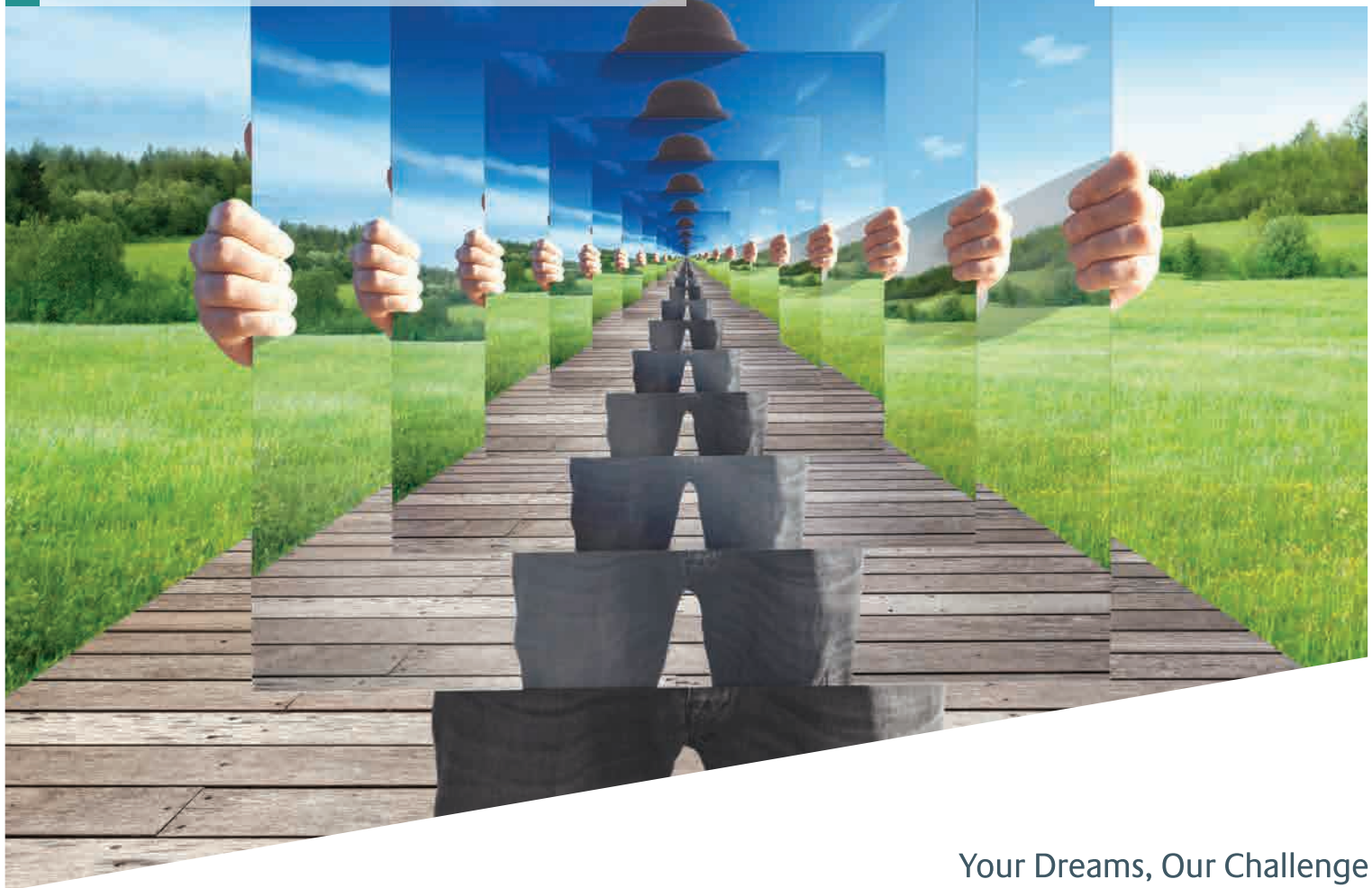


MIROX 4GREEN & MNGE

Environmental mirrors

AGC



Your Dreams, Our Challenge

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.



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

* The fully opaque Mirox 4Green keeps the diffusion of the light within the sandblasted part, providing perfect aesthetic.

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	<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 quality of air inside the building maintained 	✓	✓
Special double-layer paint	<ul style="list-style-type: none"> Provides excellent anti-corrosion protection for the silver layer outperforming EN 1036 (see information on page 10) 	✓	✓
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 Compliant with RoHS** Directive 2011/65/EU 		✓
Opaque paint	<ul style="list-style-type: none"> Offers superior opacity, which is a key feature when the mirror is backlit using LED strips 		✓
Compatible with AGC's FIX-IN bonding solutions	<ul style="list-style-type: none"> Facilitates the installation process for the customer or fitter 	✓	✓
Easy to process	<ul style="list-style-type: none"> Based on the same technology, Mirox 4Green is as easy to 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.



Mirox MNGE is
Cradle to Cradle
Certified™ Bronze.



Mirox 4Green is
Cradle to Cradle
Certified™ Silver.

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.



AUSTRIA SOFITEL VIENNA, MIROX MNGE

MIROX 4GREEN & MNGE

Clear Options



Clear
Normal float base



Clearvision
Highly neutral float base for pure aesthetics

Coloured Options



Bronze



Grey



Black

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

Dimensions
from 2000 x 3210 mm to 6000x3210 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
Behaviour	CASS Test ¹ ISO 9227	Maximum edge corrosion (µm)	1500	250	
	Neutral salt spray test ² 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			< 0.3% (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 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	See the Processing Guide on www.agc-yourglass.com .
	Grinding	Yes	
	Drilling	Yes	
	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

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, from Spain to Russia. More information on www.agc-yourglass.com.

AUSTRIA

AGC Interpane
T +49 39 205 450 446
aigd@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

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 Interpane
T +49 39 205 450 446
aigd@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 +31 344 67 97 04
verkoop.glas@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

RUSSIA

AGC Glass Russia
T +7 495 411 65 65
sales.russia@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 / DENMARK

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

SWITZERLAND

AGC Interpane
T +49 39 205 450 446
aigd@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

AGC Glass Europe has representatives worldwide - See www.agc-yourglass.com for further addresses.