LUXCLEAR™ PROTECT

For a shower as bright and transparent as on the very first day

AGC

WARRANTY
10 YEAR
WARRANTY

Luxclear Protect is a clear glass with an invisible pyrolytic coating (on one side) specially designed for shower applications. Its permanent coating has been specially developed to protect the glass surface and drastically slow the ageing process when in contact with water by preventing the development of a whitish deposit on the glass.

Unlike aftermarket products, the Luxclear Protect coating fuses with the glass and permanently seals the surface to prevent the glass from appearing hazy and dull.

As a benefit for the end user, Luxclear Protect requires no special cleaning solutions or processes compared to standard float glass. With Luxclear Protect, showers will keep their bright appearance for a long time.

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—— LUXCLEAR™ PROTECT ——

What's so special about it?	What does this mean for you?
Long-lasting transparency and cleaness	– Showers will keep their transparent and bright appearance for years. Thanks to the coating on the glass surface, Luxclear Protect will remain free of visible corrosion and staining on the coating surface for the life of the product as per AGC's 10-year no corrosion warranty
Permanent coating, permanent protection	– The industrial application of the online coating ensures the durability of the glass treatment, making storage and handling worry-free
	– Very good chemical durability (Class A according to EN 1096-2 standard)
Ease of processing	– Processing is just as easy as processing clear float of the same thickness. It can be tempered using similar parameters
Neutral appearance	– The invisible coating doesn't significantly change the optical properties of the glass in terms of transmission, reflection and colours
Safety	– Toughened glass ensures safety

Resistance to corrosion:
comparative test

—— LUXCLEAR™ PROTECT ——

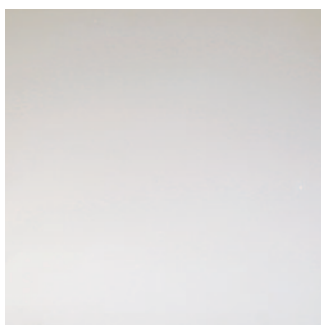### Ageing test in climate chamber

Luxclear Protect and standard clear float glass samples were placed in a climate chamber for a period of 14 days. The humidity in the room was kept at a level higher than 98%. The thermal cycle went from 25°C to 45°C in 30 minutes, then from 45°C to 55°C in 1 hour and back to 45°C again in 1 hour. This cycle was repeated 11 times. After that the temperature went back to 25°C in half an hour.

Standard clear float

Visible corrosion

Luxclear Protect

No corrosion

Did you know?

As glass is made from sand, it contains sodium in large quantities. When water enters in contact with sodium it progressively damages the surface of the glass giving it a whitish aspect (due to corrosion) that cannot be cleaned away. With Luxclear Protect, an invisible coating protects the glass against corrosion.

Technical specifications

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Performance

Thickness	8 mm (reference thickness)
Light transmission	88.5 %
Light reflection	9.5 %

Processing options

Cutting	Straight or circular
Shaping and edge finishing	Edge grinding
	Grinding
	Drilling
	Notches
Special treatments	Tempering
	Laminating
	Silk-screen printing (possible on both sides)
	Offline hydrophobic coatings can be applied

Availability
Available in 6, 8 and 10 mm and in 600*321 cm, 225*321 cm and 255*321 cm on Planibel Clearlite.

Installation
Luxclear Protect must be installed in showers with the coated surface facing the area exposed to water. You can identify the coated side using a tin bath side tester. The coated side is always the opposite side of the tin side. Before sending the sheets of glass to the installers, a sticker indicating the uncoated side should be applied to the glass. AGC Coating Detector and stickers can be ordered on www.agc-store.com.

AGC Glass Europe provides technical support to help you determine the best glass components for your applications. Please contact the AGC Technical Advisory Service (tas@eu.agc.com) for more information.

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