

EKO[®] DIAMANT

Perfect solution for
commercial refrigeration



Sustainability is at the heart of our global strategy: contributing responsibly to the development and protection of our planet.

In this regard, our products have an EPD Environmental Product Declaration which is a public, standardized and third-party verified certification.



I VETRI NON SONO TUTTI UGUALI!



SAINT-GOBAIN

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EKO® DIAMANT is a low emissivity (low E) glass with two main characteristics: excellent thermal insulation performance and high light transmission.

These properties are obtained by applying a magnetron coating of metal oxides to DIAMANT® float glass (low iron) using a controlled industrial vacuum process.

APPLICATIONS

EKO® DIAMANT has been designed for insulating glazing applications (with inner lining facing the inside of the chamber) for fridge and/or freezer doors.

In order to maintain the transparency of the insulating glazing, the second glass must also be on a DIAMANT® (low iron) float base.

PROCESSING

After cutting and edge deletion, EKO® DIAMANT must be tempered to achieve the declared performance, making it also a safety glass.

BENEFITS

EKO® DIAMANT offers performance in terms of energy saving, without compromising on homogeneity and transparency, meeting the needs of the commercial refrigeration market. The main advantages are:

- up to 25% reduction in energy consumption compared to the first generation product (Pyrolytic);
- up to 5% reduction in energy consumption compared to the Low E product with an Ug of 1.1 W/m²K (magnetron)
- up to 50% reduction in energy consumption compared to heated glass
- high light transmission
- reduced risk of condensation.

Standard composition for active refrigerators (double insulating glazing)

DGU	LT%	LR%	Ug W/m²K	Critical values RH*
4 mm DIAMANT / 12 Air / 4 mm EKO® DIAMANT	74%	19%	1,2	82%
4 mm / 12 Argon / 4 mm Pyrolytic	76%	18%	1,6	77%

*Environmental conditions: Store Temp. = 25 °C – Fridge Temp. = 4 °C

Standard composition for negative refrigerators (triple insulating glazing)

TGU	LT%	LR%	Ug W/m²K	Critical values RH**
4 mm DIAMANT / 13 Argon / 4 mm EKO® DIAMANT / 13 Argon / 4 mm EKO® DIAMANT (#3 and #5)	61%	27%	0,6	80%
Reference: DGU glass unit 4 mm / 13 Argon / 4 mm pyrolytic	70%	22%	1,5	59%

**Environmental conditions: Store Temp. = 25 °C – Fridge Temp. = -25 °C

RANGE

EKO® DIAMANT is available in sizes 6.000 mm x 3.210 mm with a thickness of 4 mm.

NORMS

EKO® DIAMANT has a class C coating according to the European standard UNI EN 1096.1. Tempering must be carried out according to the provisions of UNI EN 12150-1 and 2.

Distributor