

EGLAS

HEAT | COMFORT | FUNCTIONALITY

**THE TRANSPARENCY OF GLASS
WITH HEATING COMFORT**

EGLAS

Comfortable warmth with no condensation



THERMAL COMFORT INSIDE

EGLAS has been designed to provide heat from the glass, improving the thermal comfort inside the building. Depending on the type of application and the glass structure, EGLAS can fulfil the following functions:

- Anti-condensation
- Snow melting
- Thermal comfort
- Main heating

EGLAS was developed in 1986 in Finland.

The working principle of 'warm glass' is based on the application of two factors: electric current, and a layer of metal oxides, applied on one surface of the glass.

EGLAS PROUDLY MANUFACTURED BY SAINT-GOBAIN IN POLAND



EXAMPLES

EGLAS provides heat from transparent glass in all regions of the world.

FINLAND



Concert hall, Hämeenlinna, Finland

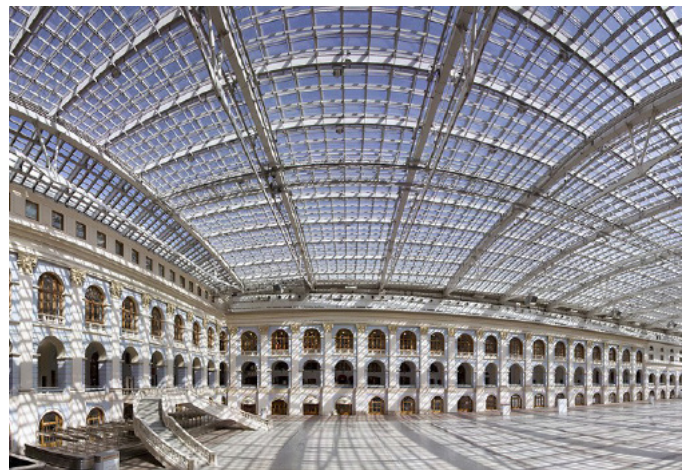


Kakslauttanen Arctic Resort, Saariselkä, Finland

RUSSIA



Mercure City Tower, Moscow, Russia



Gostiny Dvor, Moscow, Russia

INTERNAL APPLICATIONS:

Internal partition walls, doors, glazing, glass floors, fridge doors

EXTERNAL APPLICATIONS:

Facades, windows, conservatories, winter gardens, glass roofs, BiFold Doors.

MAKE USE OF THE OPPORTUNITIES OFFERED BY EGLAS

If you are ...

... a building user

Your window panes will guarantee comfortable temperatures in your rooms.

No steam, no snow will block your view of the world. The number of days with beautiful, natural light will increase noticeably.

Use EGLAS as a heated glass floor. Make an EGLAS partition wall, which will warm up your room. Do not limit your applications.



... a building owner

Thanks to EGLAS problems connected with snow-clearing and steam condensation will fade into oblivion.

You can save money on cleaning the surface of your windows.

You can make sure that the energy consumption is low. You can achieve energy optimisation of your building, you can eliminate draughts inside your building. You can reduce the maintenance and cleaning costs.



If you are ...

... an architect, a designer

Your design will be more functional.
You can integrate invisible heating system in the spaces you create.
You can optimise your space according to your wishes.

Using EGLAS in glazing units, you can combine its functionality with other products and solutions from the vast array of Saint-Gobain products:

- STADIP,
- VIEWGLASS,
- PRIVA-LITE,
- BIOCLEAN.



... an installer, an assembler

Your installation of EGLAS will be quick and without any problems. EGLAS is compatible with most types of profiles – PVC, aluminium, wood.

EGLAS is supplied together with all accessories necessary for its installation, in dimensions and functionalities consistent with your order.

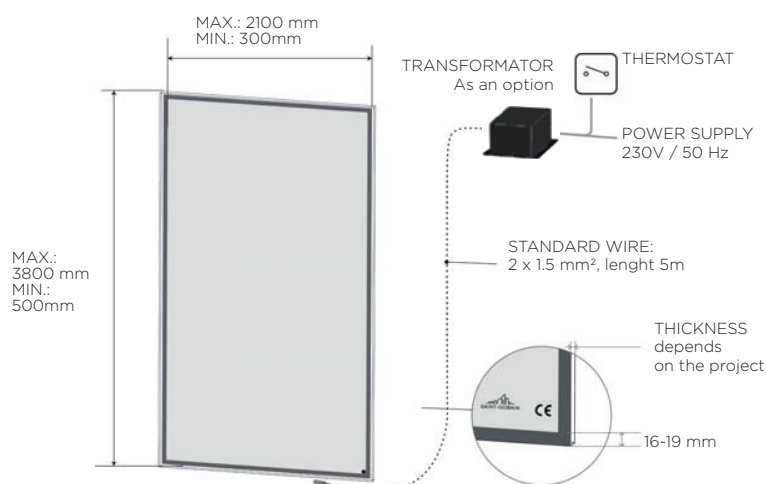
Installation of EGLAS II Generation is incredibly easy. All you need to do is to plug it in a 230V socket and ...

... feel the warmth

SPECIFICATION

| | GLAZING UNITS WITH EGLAS | LAMINATED GLASS WITH EGLAS |
|---|--|--|
| Thickness | 16 mm - 70 mm | EGLAS 44.4; 10 mm EGLAS 66.4; 14 mm |
| Dimensions | Maximum dimensions for a 4 mm - thick EGLAS component: 1600x2500 mm Maximum dimensions for a 6 mm - thick EGLAS component: 2100x3800 mm* * bigger size on demand Minimum dimensions: 300 mm x 500 mm | |
| Light transmission | 20% - 66% | 20% - 70% |
| Connection voltage | Standard 230 V AC, possible 115V or 48V DC | |
| Power of the anti-condensation function | 50 - 150 WATT/m ² | |
| Power of the thermal comfort function | 80 - 250 WATT/m ² | |
| Power of the heating function | 100 - 300 WATT/m ² | |
| Power of the snow melting function | 350 - 600 WATT/m ² | |
| Temperature of the glass surface | From 20°C to max. 65°C Temperature is regulated instantly: the temperature of the surface of 65°C is reached in 20 minutes | |
| IP rating | IP34 | |
| Certificates and standards | CE marking: standards EN 1096, EN 572-8, EN 1279-5, EN 12150, EN 14449, Fimko EN 60335-1, DIN EN 61000-3-2, DIN EN 61000-3-3, DIN EN 55014-2, DIN EN 55014-1, EN 1863, SGS, VDE etc. A list of certificates is available on request in the manufacturer's registered office | |

EGLAS - Installation



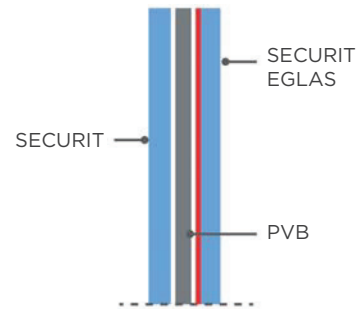
Compliance with legal regulations

EGLAS is consistent with the following standards:

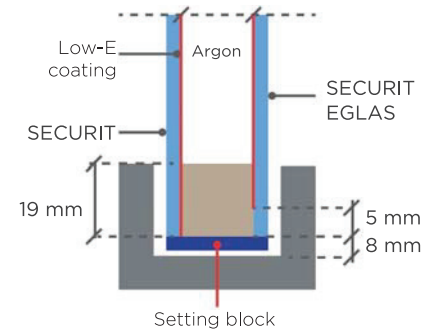
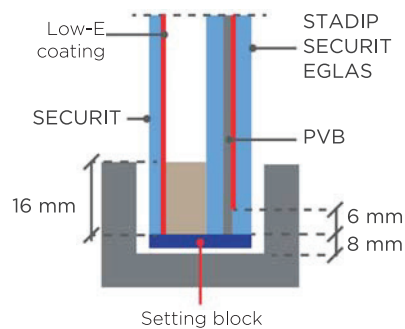
CE marking:

- EN 1279 - Double glass units
- EN 1096 - Coated glass
- EN 12150 - Thermally toughened safety glass
- EN 14449 - Laminated glass and laminated safety glass

Tempered and laminated glass



Double/triple glazed unit with tempered and laminated glass



EGLAS has been developed so as to secure quick assembly without any problems in compliance with the regulations in force



eglas@saint-gobain.com

www.glassolutions.pl