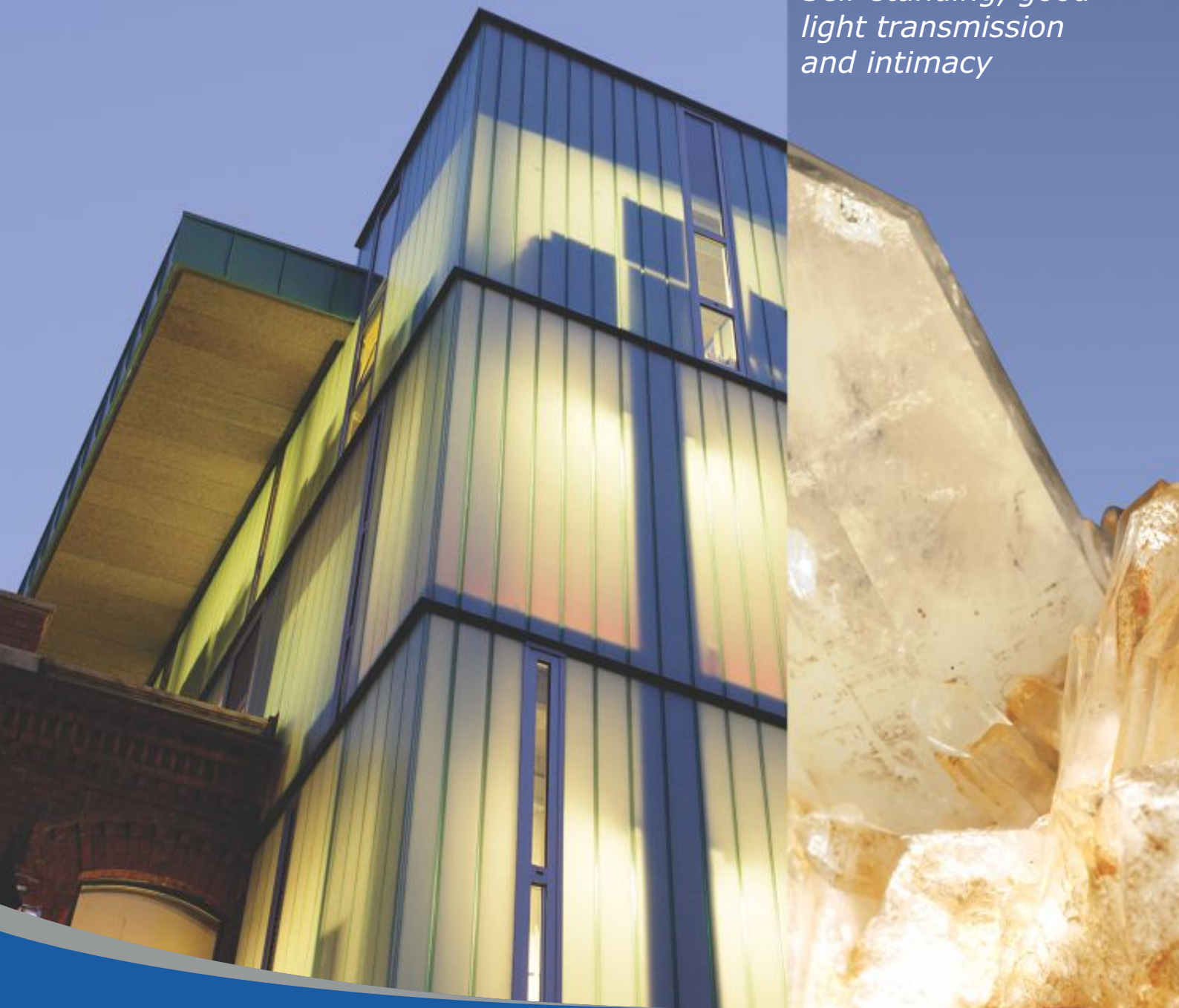


SGG U-GLAS[®]

*Self-standing, good
light transmission
and intimacy*



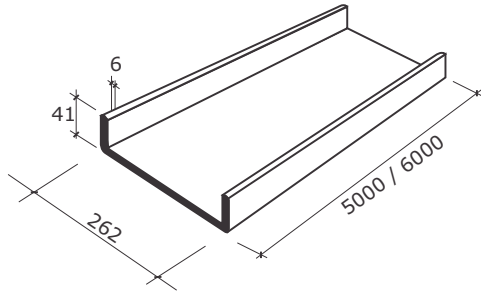
SGG U-GLAS[®]

Diversified architectural solutions for large glazed surfaces

SGG U-GLAS incorporates a simple idea consisting of a self-standing glazing system framed by an aluminum structure which meets the highest technical and architectural requirements.



Description



The glass channel is a cast glass formed through computer-controlled furnaces, consistently producing glass of the highest quality and to accurate dimensions. The U-shaped configuration of the glass produces a high structural strength within the channel, allowing it to be installed at high level or in large unit lengths without the need for additional horizontal or vertical support.

The ^{SGG} U-GLAS system provides a variety of architectural solutions. Its main use is the creation of outdoor glass surfaces and it is suitable for oversized glass facades.

^{SGG} U-GLAS is increasingly being used in modern architecture focused on design, where it adds value to the inside through the light input and to the outside by the particular visual impact.



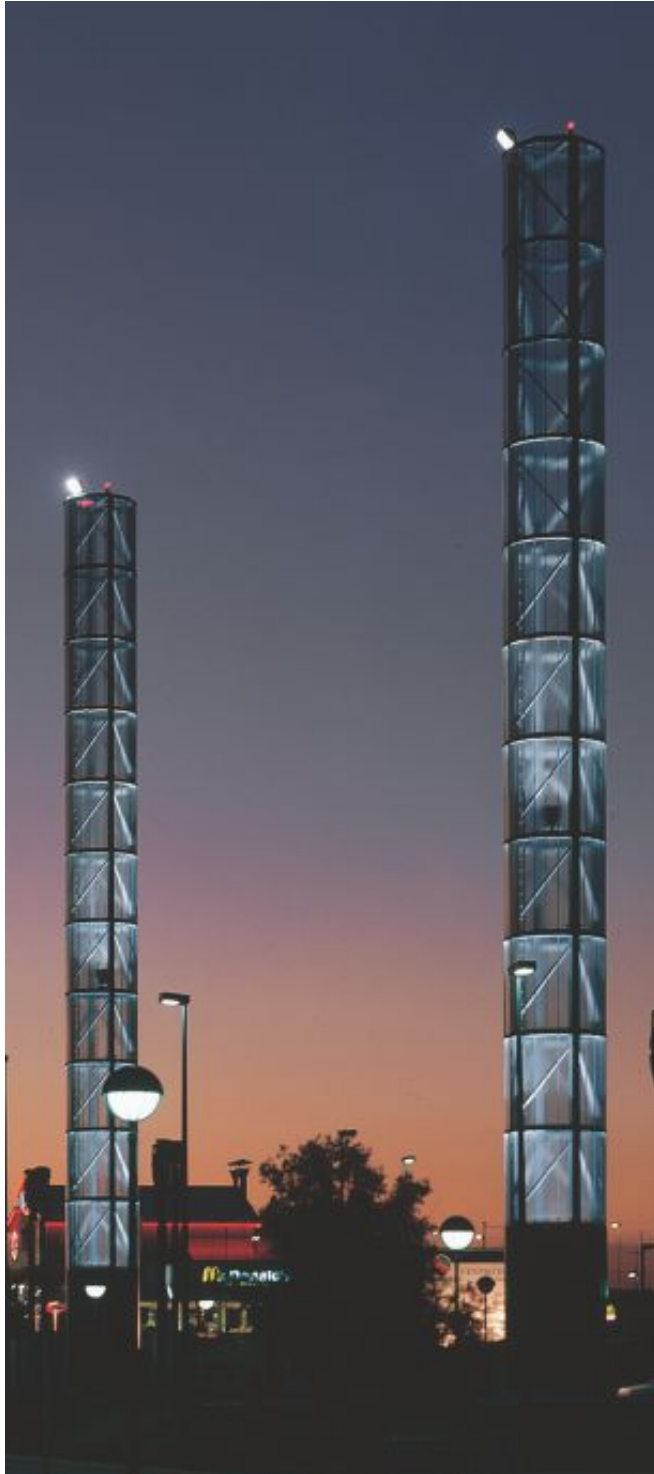
Thanks to its "U" shaped sectioning it is self standing and easy to use.

This structure enables the architects to use the glass in innovative applications. It is available in two versions, wired and non-wired. In addition, the non-wired glass can be tempered.

It offers choices for colour, texture, installation, as well as for various light diffusion levels.

*CASADecor'03. ONCE Foundation Project.
Interior design studio OTO.*

The construction simplicity, discretion and light transmission are the best foundations of ^{SGG} U-GLAS, a glass whose features and aesthetic impact marks its position in modern architecture.



Kinópolis



Light diffusion and intimacy:

Light helps to improve life quality, but excessive sunlight can be irritating or harmful.

^{SGG} U-GLAS contributes to achieving the right level of lighting specified by regulation.



Uniform light diffusion:

Thanks to the quality of printed glass, the texture engraved on its surface enables excellent light diffusion.



Simple installation:

The ^{SGG} U-GLAS is quick and simple due to a fitting system based on anodized aluminum profiles, together with its installation accessories.



Thermal and acoustic insulation:

With or without reinforcement, it may be installed with a single or double (double-side type) closure, an option that enhances the thermal and acoustic functions.



Double glazing installation allows a sound control level of 38-41 dB.



Safety:

Wired ^{SGG} U-GLAS can fully meet minimum safety requirements as well as the full scope for architectural design in the same time.

The high quality of ^{SGG} U-GLAS ensures an energetic balance of economic benefits regardless of season.

The resulting visual impact due to light diffusion and aesthetic features of the glass, ranks SGG U-GLAS as being ideal for facades and indoor partitions.

Facades:

SGG U-GLAS is frequently used in outside vertical closure systems, single or double, flat or curved, in rooms that need a large amount of light: hotels, office buildings, shopping centres, health centres, between floors, stairways, dryer, galleries to courtyards or gardens, garages, ships and industrial equipment.

In an effort to create a timeless character for the building design of an office,

SGG U-GLAS provides architects and designers innovative solutions.

SGG U-GLAS is ideal for renovations!



before

Bus depots, Horta, Barcelona



Bus depots, Horta, Barcelona

Facades/partitioned areas in sports centres:

requirements related to size, openness, and self-sustainable structure necessary when building sports halls may be satisfied by SGG U-GLAS in most cases. The resistance to shocks caused by ball impact is a very important point in such locations.

Interior partitions:

natural light transmission, creation of intimacy, possibility of creating straight and curved shapes and the particular texture of

SGG U-GLAS, allows genuine solutions for indoor areas, adapting the area to the needs of people using it.

Roofs:

in case of non-vertical closures types, a specific technical study may be required. They may be installed in single or double-sided version. Consult us for more details.



CASADecor'03. ONCE Foundation Project. Interior design studio OTO.

Range

SGG U-GLAS is produced in standard shape, reinforced and unreinforced versions, in order to cover the existing construction needs. The colours available to order are: clear, extra-clear, grey, bronze, blue and green.

- Non-wired
- Wired
- Extra clear
- Coloured
- Satinated

Standard range

Product	Width	Wing	Thickness	Length (m)
SGG U-GLAS	232	60	7	2, 3, 4, 5, 6
	262	41	6	2, 3, 4, 5, 6
	262	60	7	2, 3, 4, 5, 6
SGG U-GLAS WIRED	232	60	7	2, 3, 4, 5, 6
	262	41	6	2, 3, 4, 5, 6
	262	60	7	2, 3, 4, 5, 6
SGG U-GLAS EXTRA CLEAR	232	60	7	2, 3, 4, 5, 6
	262	41	6	2, 3, 4, 5, 6
	262	60	7	2, 3, 4, 5, 6

Fixed length dimensions available on firm order and depending on the campaign time line. For example: 2,75 m, 3,65m

Performances *

	Light Transmission TL(%)	Light reflection Rle(%)	Solar Transmission TE(%)	Solar factor, g
SGG U-GLAS clear	86	8	79	0,82
SGG U-GLAS extra-clear	89	8	88	0,89

* for 6mm thickness



The glazing system consists of a range of *SGG U-GLAS* and perimeter frame components which allows the design and construction of both external and internal glazed screens. The aluminium perimeter frames are available in a variety of different finishes.

Single-skin

Single butt-joint system

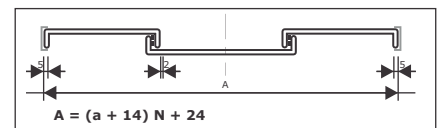
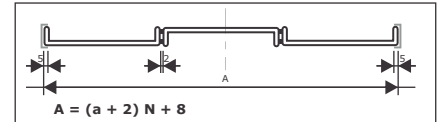
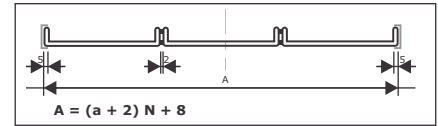
Installed in line, side by side, all facing the same direction.

Corrugated butt-joint system

Installed side by side, alternating the direction each section faces.

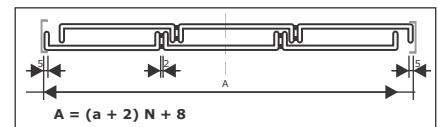
Interlocking System

Overlapping and interlocking adjacent sections.

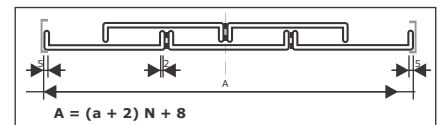


Double-skin

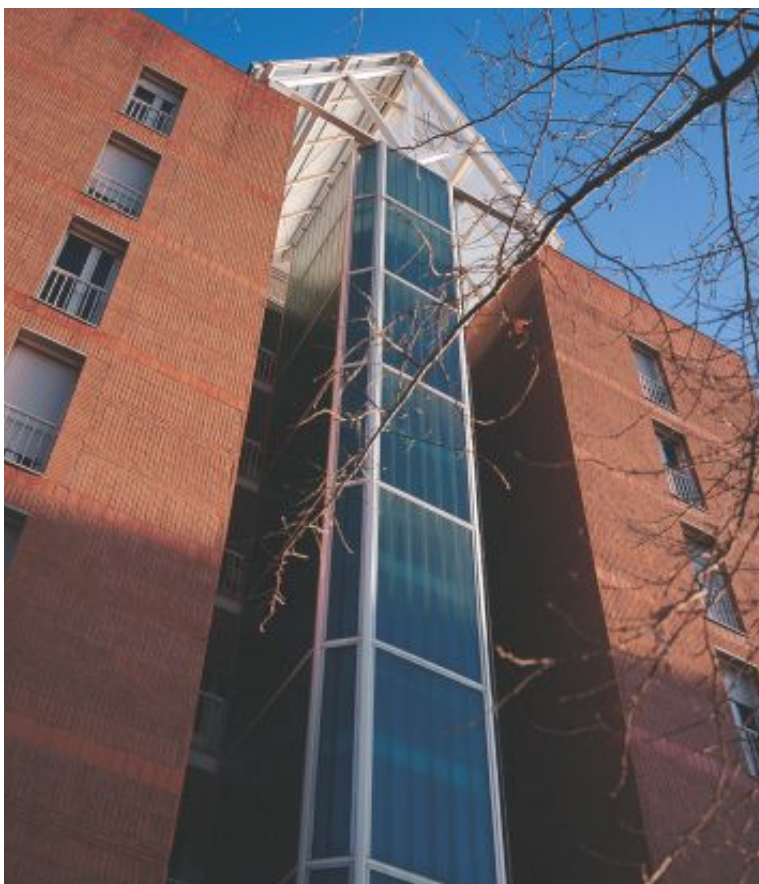
Butt-jointed double-skin



Offset double-skin



Thanks to the inherent quality characteristics, no tension will be transferred between the building structure and *SGG U-GLAS* during installation.



- The building structure should be rigid, undistorted and enable the water drainage and replacement of glass
- *SGG U-GLAS* must be fitted by rubber or neoprene blocks, and only under exceptional circumstances should treated wood be used.
- Contacts such as glass-glass or glass/metal should be avoided
- In order to prevent damages to the accessories related to climate variations appropriate materials should be used.

S t o r a g e

Efficient space stock for you or your customers



^{SGG} U-GLAS is to be stored on timber frames in dry conditions and on an absolutely stable base. Elements can be stacked but they must be separated by rigid timber battens.

R u l e s a n d r e g u l a t i o n s

^{SGG} U-GLAS complies with the European Standard EN 572, EN 410, EN 672 and carries the CE marking.


SAINT-GOBAIN
GLASS

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Graphics: Brand Factory Grup - October 2012

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SAINT-GOBAIN
GLASS

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