

VIG

Vacuum Insulated Glass

BEYOND GLASS



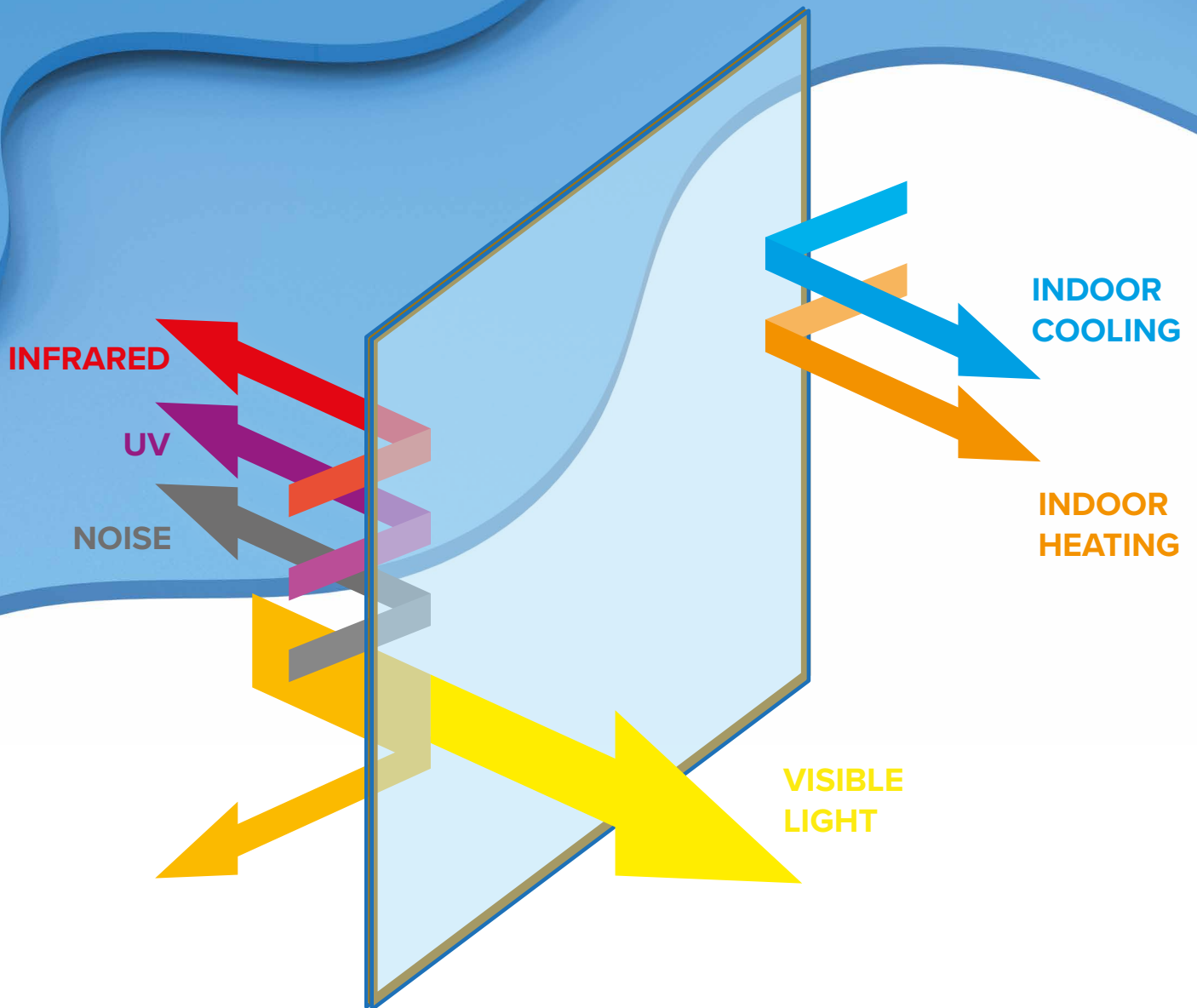
Many years of experience, state-of-the-art production plant and great location are the few of many factors that contribute to JBG-2's success. Hundreds of satisfied customers around the world especially appreciate our creative approach, flexibility and commitment to the successful completion of every project.

Since the very beginning of our activities in 1989 ecology has been our main concern, both at the stage of the production itself and at the subsequent effect of our products on the environment.





WHY VACUUM INSULATED GLASS



Unique energy-saving solution with exceptional thermal insulation ($0,43 \text{ W/m}^2\text{K}$)

- *Condensation-free glass*
- *Extraordinary comfort of use (slim, light 20 kg/m^2 , 50 mm distance between spacers)*

Excellent light transmittance

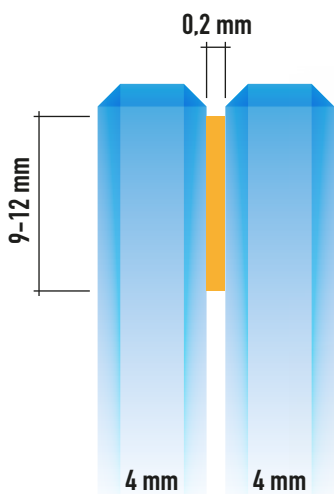
75%

Outstanding acoustic performance

36 (-2;-3)
dB



VACUUM GLASS 8,2 mm



DESCRIPTION

| Position | Product | Process | Thickness (NOMINAL) mm | Weight kg/m ² |
|---------------------|-------------------------|----------|------------------------|--------------------------|
| Glass 1 | LowE Glass | Tempered | 4,0 | |
| Cavity 1 | Vacuum | | 0,2 | |
| Glass 2 | FLOAT | Tempered | 4,0 | |
| PRODUCT CODE | 4TLowE-0,2Vac-4T | | 8,2 | 20,00 |

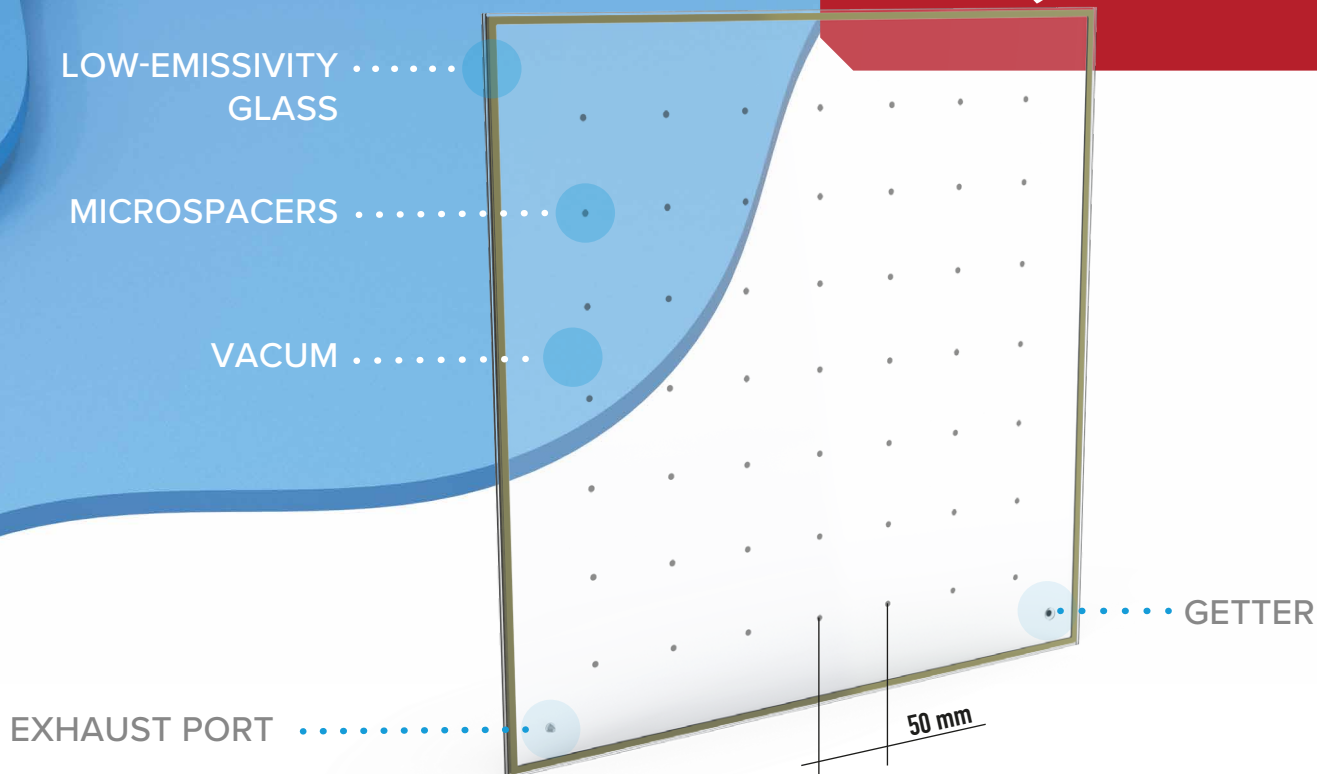


VIG – VACUUM GLAZING UNIT CONSTRUCTION

8,2 mm

THICKNESS

U: 0,43 W/m²K



Types of VIG depending on the size range:

Tempered VIG 8,2 mm in size:

range of minimum 300 x 300 mm and maximum 2000 x 3000 mm;

product code [4TLowE-0,2Vac-4T] with 'U' value: 0,43 W/m²K

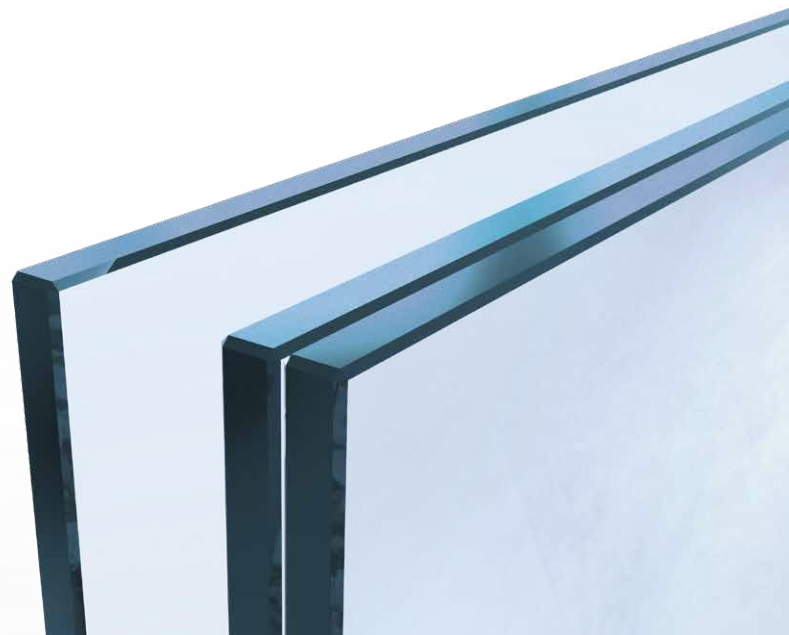
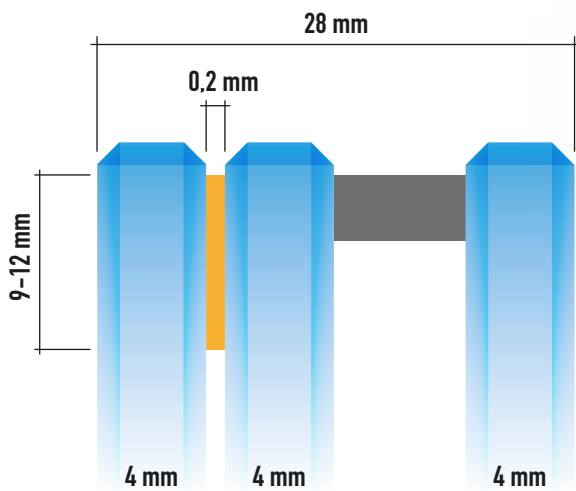
Light and solar properties in accordance with ISO 9050:2003-08

| Light | | |
|-----------------------------|--------|------|
| Light transmittance | LT | 0,75 |
| Ultraviolet transmittance | UV | 0,33 |
| Light reflectance (outside) | LR out | 0,18 |
| Light reflectance (inside) | LR in | 0,17 |
| Colour rendering index | | 98 |

| ENERGY | | |
|------------------------------------|---|------------|
| Solar direct transmittance | g | 0,49 |
| Solar direct reflectance (outside) | Re | 0,36 |
| Solar direct reflectance (inside) | Re | 0,36 |
| Sound insulation coefficient | R _w (C; C _{tr}) dB | 36 (-2;-3) |
| Thermal insulation coefficient | W/m ² K | 0,43 |



HYBRID VACUUM GLASS 28 mm



DESCRIPTION HYBRID

| Position | Product | Process | Thickness (NOMINAL) mm | Weight kg/m ² |
|---------------------|-------------------------------------|----------|------------------------|--------------------------|
| Glass 1 | LowE Glass | Tempered | 4,0 | |
| Cavity 1 | Vacuum | | 0,2 | |
| Glass 2 | FLOAT | Tempered | 4,0 | |
| Cavity 2 | Argon 90% | | 15,8 | |
| Glass 3 | LowE Glass | Tempered | 4,0 | |
| PRODUCT CODE | 4TLowE-0,2Vac-4T-16Ar-4TLowE | | 28 | 30,00 |



VIG – VACUUM GLAZING UNIT CONSTRUCTION

28 mm

THICKNESS

U: 0,31 W/m²K

LOW-EMISSIVITY
GLASS

MICROSPACERS

VACUUM

GETTER

EXHAUST
PORT

50 mm

Types of VIG depending on the size range:

Tempered VIG 28 mm in size:

range of minimum 300 x 300 mm and maximum 2000 x 3000 mm;

product code **4TLowE-0,2Vac-4T-16Ar-4TLowE** with 'U' value: 0,31 W/m²K

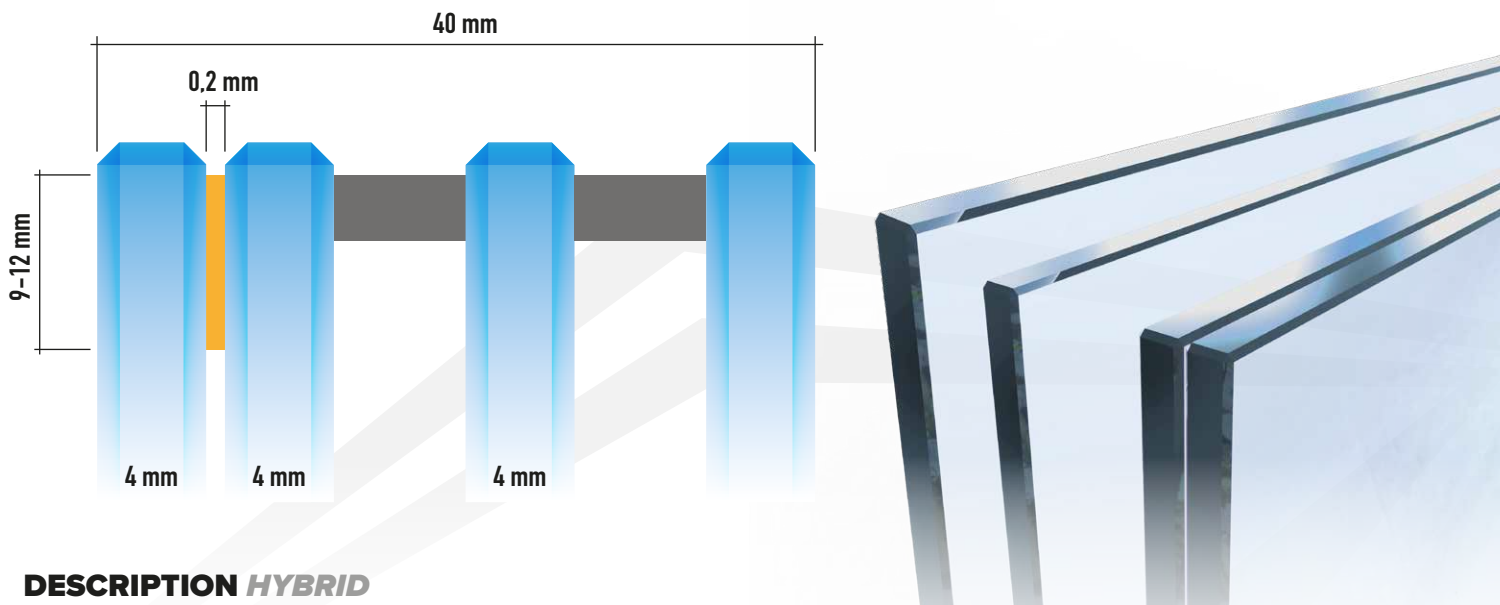
Light and solar properties in accordance with ISO 9050:2003-08

| Light | | |
|-----------------------------|--------|------|
| Light transmittance | LT | 0,67 |
| Ultraviolet transmittance | UV | 0,29 |
| Light reflectance (outside) | LR out | 0,19 |
| Light reflectance (inside) | LR in | 0,14 |
| Colour rendering index | | 97 |

| ENERGY | | |
|------------------------------------|--|------|
| Solar direct transmittance | g | 0,38 |
| Solar direct reflectance (outside) | Re | 0,39 |
| Solar direct reflectance (inside) | Re | 0,39 |
| Sound insulation coefficient | R _w (C;C _{tr}) dB | N/A |
| Thermal insulation coefficient | W/m ² K | 0,31 |



HYBRID VACUUM GLASS 40 mm



DESCRIPTION HYBRID

| Position | Product | Process | Thickness (NOMINAL) mm | Weight kg/m ² |
|---------------------|---|----------|------------------------|--------------------------|
| Glass 1 | LowE Glass | Tempered | 4,0 | |
| Cavity 1 | Vacuum | | 0,2 | |
| Glass 2 | FLOAT | Tempered | 4,0 | |
| Cavity 2 | Argon 90% | | 11,8 | |
| Glass 3 | LowE Glass | Tempered | 4,0 | |
| Cavity 2 | Argon 90% | | 11,8 | |
| Glass 3 | LowE Glass | Tempered | 4,0 | |
| PRODUCT CODE | 4TLowE-0,2Vac-4T-12Ar-4T-12Ar-4TLowE | | 40 | 40,00 |



VIG – VACUUM GLAZING UNIT CONSTRUCTION

40 mm

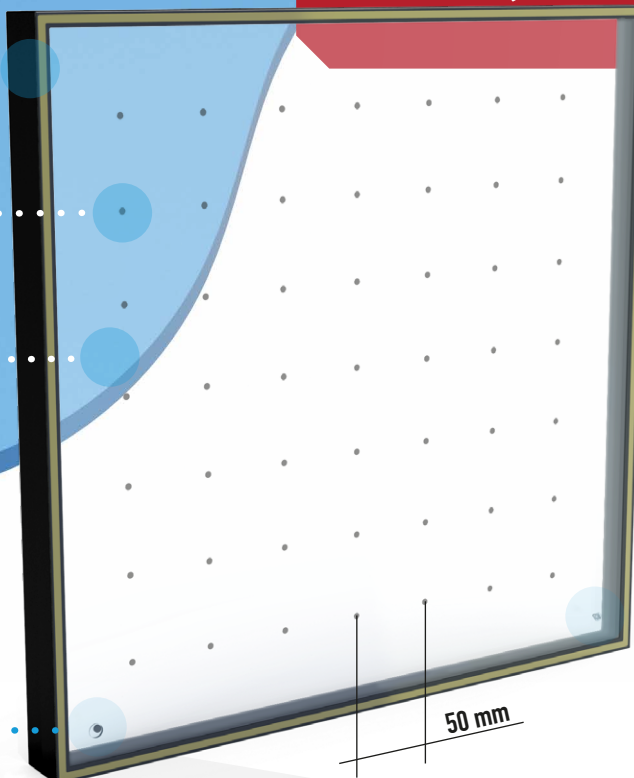
THICKNESS

U: 0,29 W/m²K

LOW-EMISSIVITY
GLASS

MICROSPACERS
.....

VACUUM
.....



GETTER
.....

..... EXHAUST
PORT

Types of VIG depending on the size range:

Tempered VIG 40 mm in size:

range of minimum 300 x 300 mm and maximum 2000 x 3000 mm;

product code **4TLowE-0,2Vac-4T-12Ar-4T-12Ar-4TLowE** with 'U' value: 0,29 W/m²K

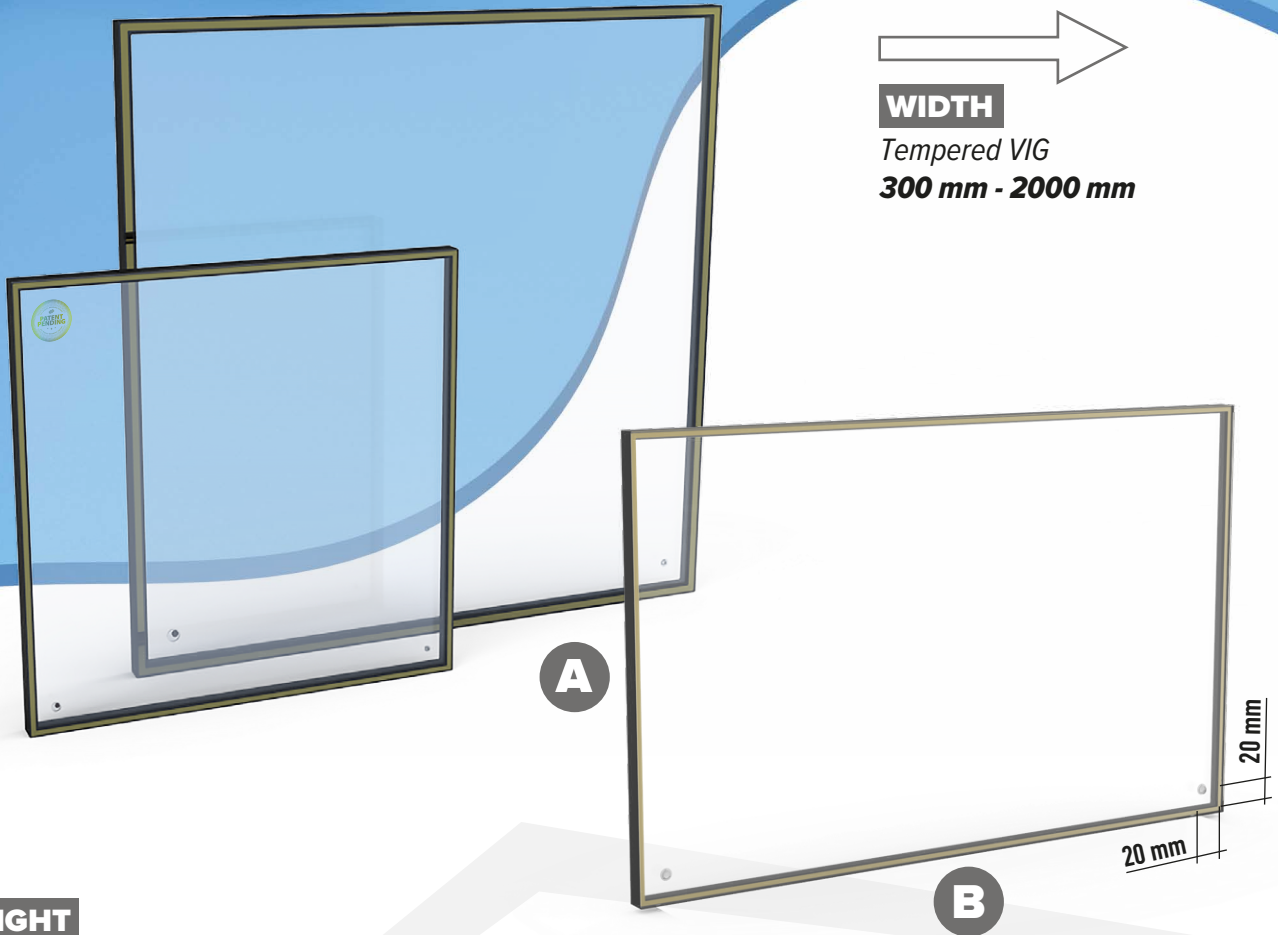
Light and solar properties in accordance with ISO 9050:2003-08

| Light | | |
|-----------------------------|--------|------|
| Light transmittance | LT | 0,62 |
| Ultraviolet transmittance | UV | 0,26 |
| Light reflectance (outside) | LR out | 0,21 |
| Light reflectance (inside) | LR in | 0,16 |
| Colour rendering index | | 96 |

| ENERGY | | |
|------------------------------------|--|------|
| Solar direct transmittance | g | 0,29 |
| Solar direct reflectance (outside) | Re | 0,42 |
| Solar direct reflectance (inside) | Re | 0,42 |
| Sound insulation coefficient | R _w (C;C _{tr}) dB | N/A |
| Thermal insulation coefficient | W/m ² K | 0,29 |



RANGE OF AVAILABLE DIMENSIONS



HEIGHT

Tempered VIG
300 mm - 3000 mm

WIDTH

Tempered VIG
300 mm - 2000 mm

A

B

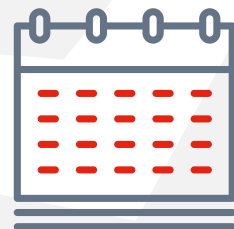
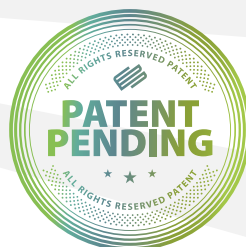
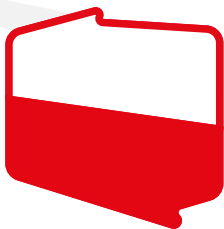
Placement of exhaust port and getter

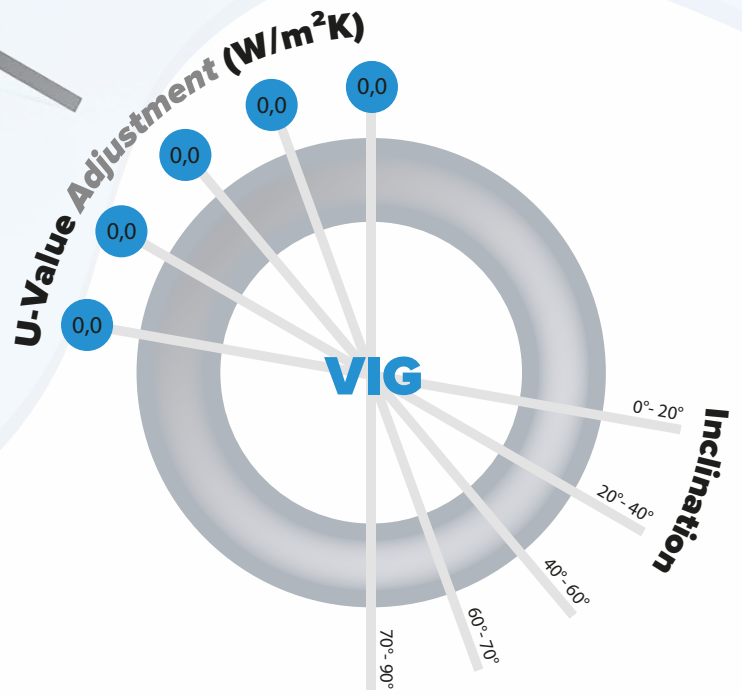
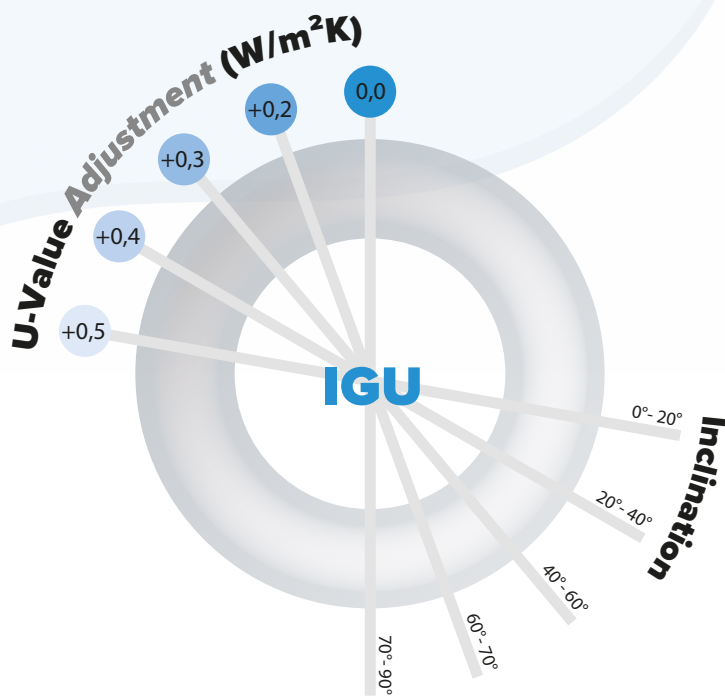
We tend to put both exhaust port and getter on the longer glass side no matter if it is height or width side $A > B$

DEVELOPED IN
POLAND

**PATENT
PENDING**

DELIVERY TIME
3-4 WEEKS

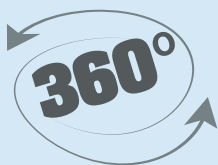




Vacuum INSULATED GLASS

INSULATED GLASS UNITS

The Ug-value of Vacuum Insulated Glass remains constant no matter what the installation angle slope is. It can be used in various slopes without heat losses in comparison to the vertical installation



BEYOND **GLASS**



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