

# VIG

## Vacuum Insulated Glass

BEYOND GLASS



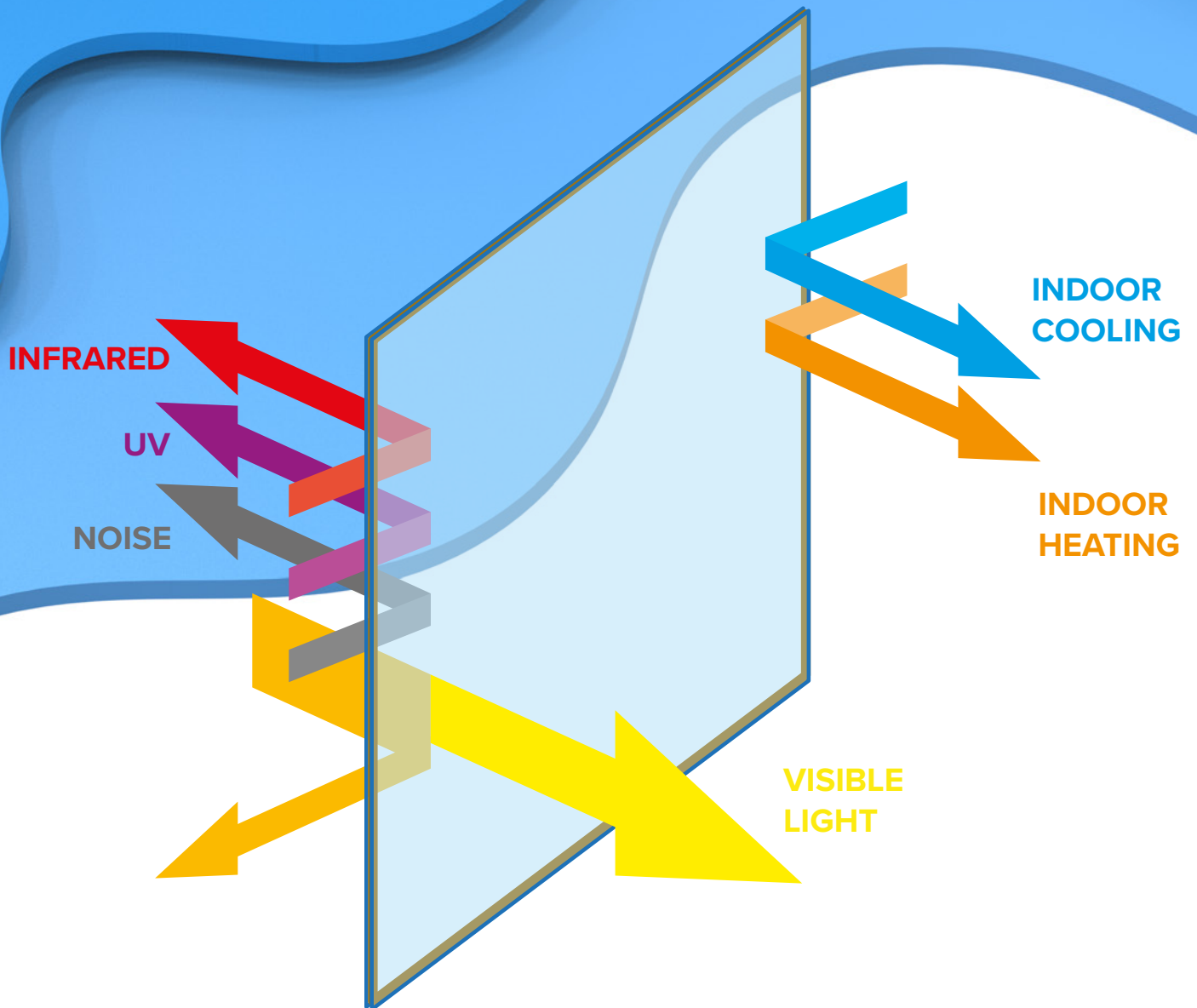
*Many years of experience, state-of-the-art production plant and great location are the few of many factors that contribute to JBG-2's success. Hundreds of satisfied customers around the world especially appreciate our creative approach, flexibility and commitment to the successful completion of every 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 (0,4 W/m<sup>2</sup>K)**

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

*Excellent light transmittance*

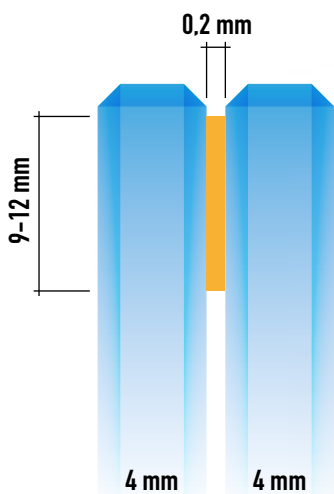
**81%**

*Outstanding acoustic performance*

**31 dB**



## VACUUM GLASS 8,2 mm



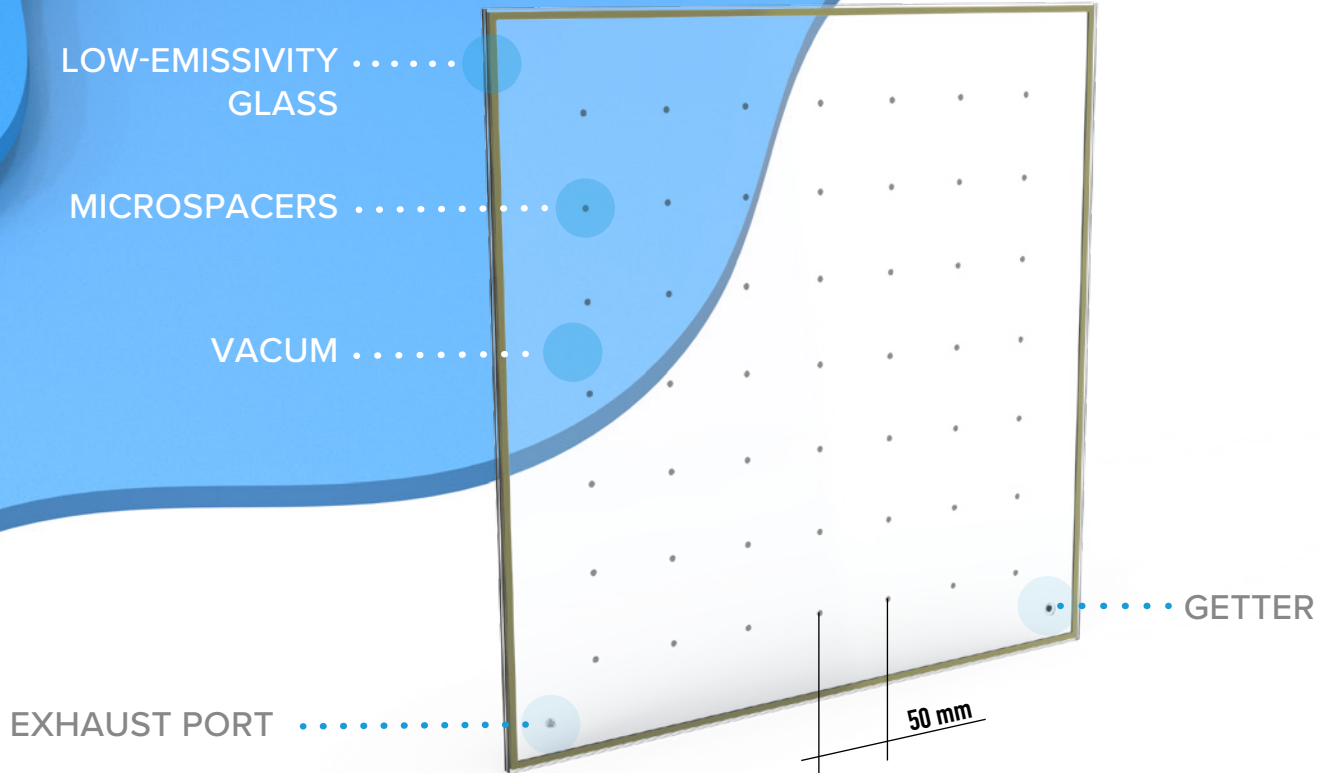
### DESCRIPTION

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



## VIG – VACUUM GLAZING UNIT CONSTRUCTION

# 8,2 mm THICKNESS



### Types of VIG depending on the size range:

**Tempered VIG 8,2 mm in size:**  
range of minimum 300 x 300 mm and maximum 1500 x 2500 mm;  
product code [4T**LowE-0,2Vac-4T**] with 'U' value: 0,4 W/m<sup>2</sup>K

**Non-tempered VIG 8,2 mm in size:**  
range of minimum 100 x 100 mm and maximum 299 x 299 mm;  
product code [4**LowE-0,2Vac-4**] with 'U' value: 0,7 W/m<sup>2</sup>K

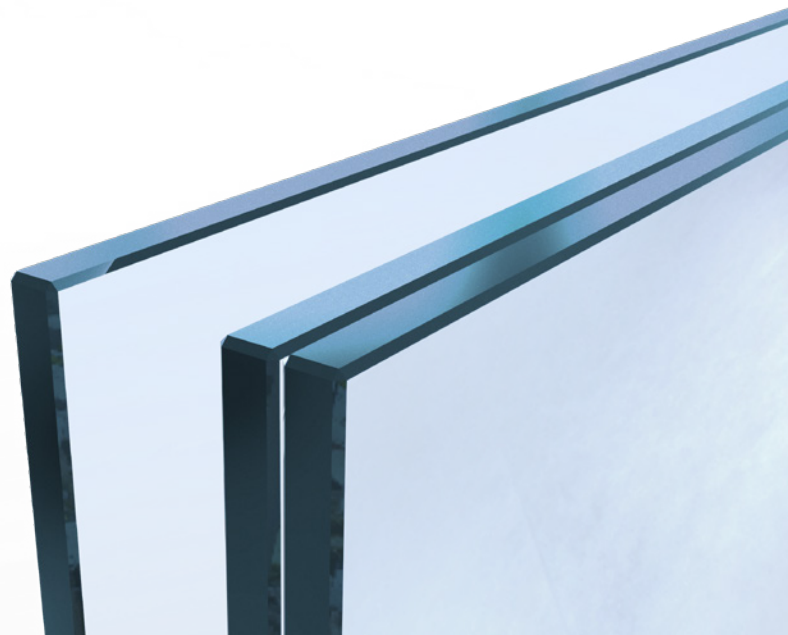
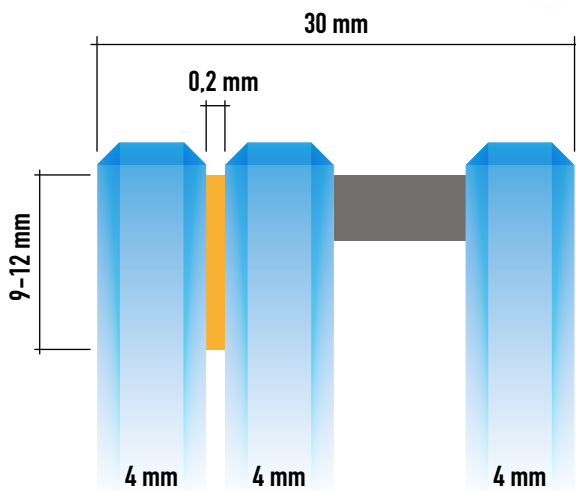
### PERFORMANCE

Light		
Transmittance	LT	81%
Reflectance Out	LR out	12%
Reflectance In	LR in	12%
Performance Code		
Ug-value/Light/Energy	0,4/81/58	
Ra	98	

ENERGY		
Direct Transmittance	ET	58%
Reflectance	ER	25%
Absorptance	EA	27%
Total Transmittance	g	61%
Shading Coefficient Total		0,70
Sound Reduction	R <sub>w</sub> (C;C <sub>v</sub> ) dB	31 dB
Thermal Transmittance	W/m <sup>2</sup> K	0,4



## HYBRID VACUUM GLASS 30 mm



### DESCRIPTION *HYBRID*

Position	Product	Process	Thickness (NOMINAL) mm	Weight kg/m <sup>2</sup>
<i>Glass 1</i>	<i>LowE Glass</i>	<i>Tempered</i>	4,0	
<i>Cavity 1</i>	<i>Vacuum</i>		0,2	
<i>Glass 2</i>	<i>FLOAT</i>	<i>Tempered</i>	4,0	
<i>Cavity 2</i>	<i>Argon 90%</i>		17,8	
<i>Glass 3</i>		<i>Tempered</i>	4,0	
<b>PRODUCT CODE</b>	<b>4TLowE-0,2Vac-4T-18Ar-4TLowE</b>		<b>30</b>	<b>30,00</b>



# VIG – VACUUM GLAZING UNIT CONSTRUCTION

## 30 mm THICKNESS

LOW-EMISSIVITY  
GLASS

MICROSPACERS

VACUUM

GETTER

EXHAUST  
PORT

50 mm

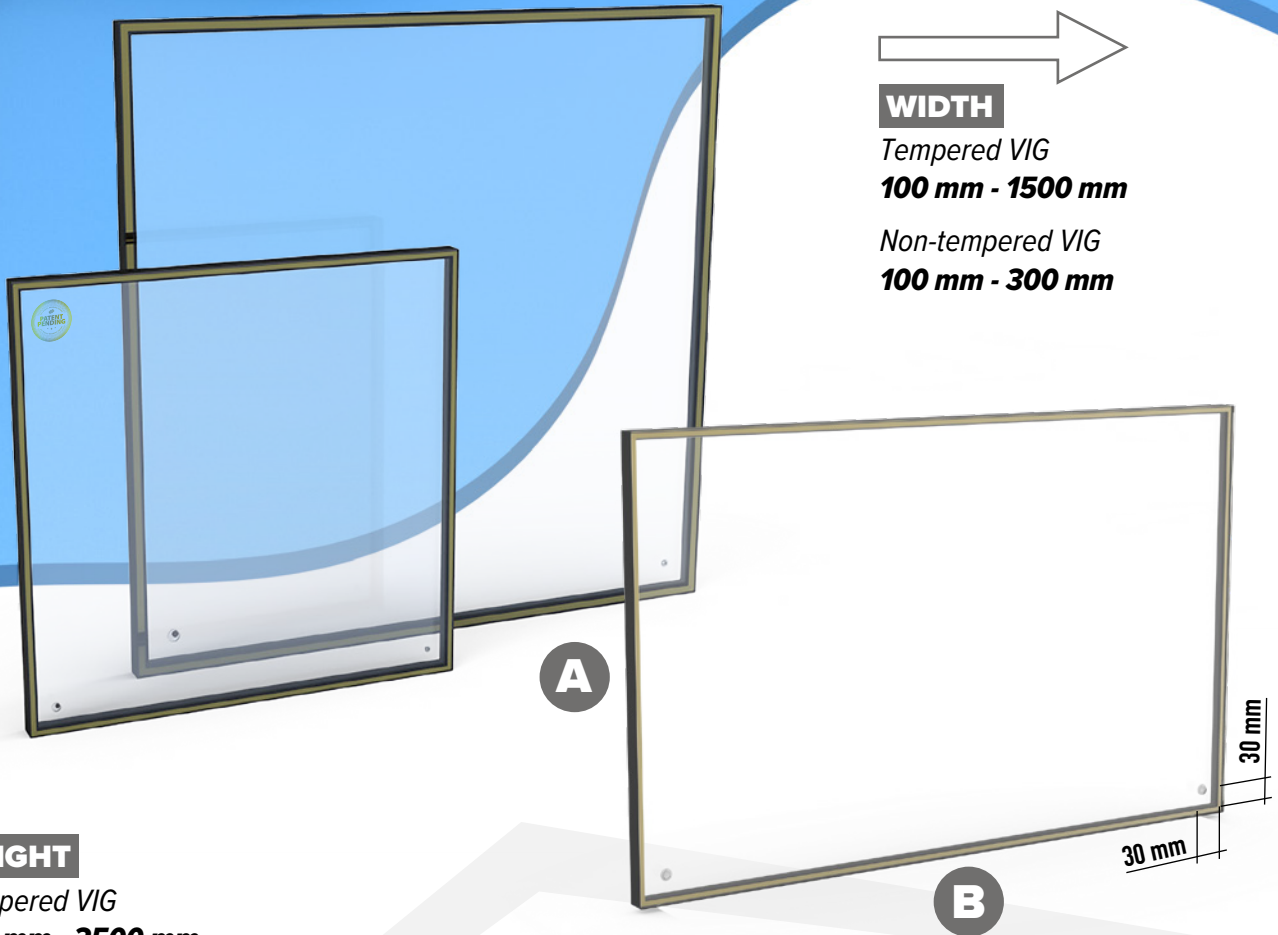
### PERFORMANCE HYBRID

Light		
Transmittance	LT	73%
Reflectance Out	LR out	14%
Reflectance In	LR in	15%
Performance Code		
Ug-value/Light/Energy	0,32/73/60	
Ra	97	

ENERGY		
Direct Transmittance	ET	46%
Reflectance	ER	30%
Absorptance	EA	14%
Total Transmittance	g	53%
		0,60
Sound Reduction	$R_w(C;C_{tr})$ dB	39 dB
Thermal Transmittance	$W/m^2K$	0,32



## RANGE OF AVAILABLE DIMENSIONS



### WIDTH

Tempered VIG  
**100 mm - 1500 mm**

Non-tempered VIG  
**100 mm - 300 mm**

### HEIGHT

Tempered VIG  
**100 mm - 2500 mm**

Non-tempered VIG  
**100 mm - 300 mm**

**A**

**B**

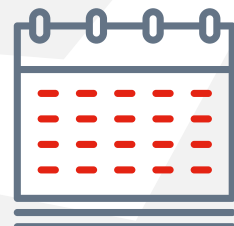
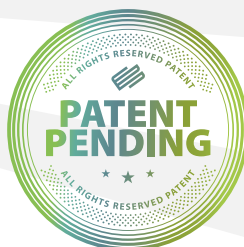
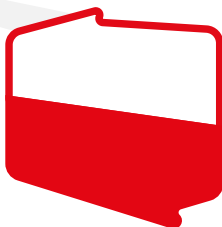
### Placement of exhaust port and getter

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**

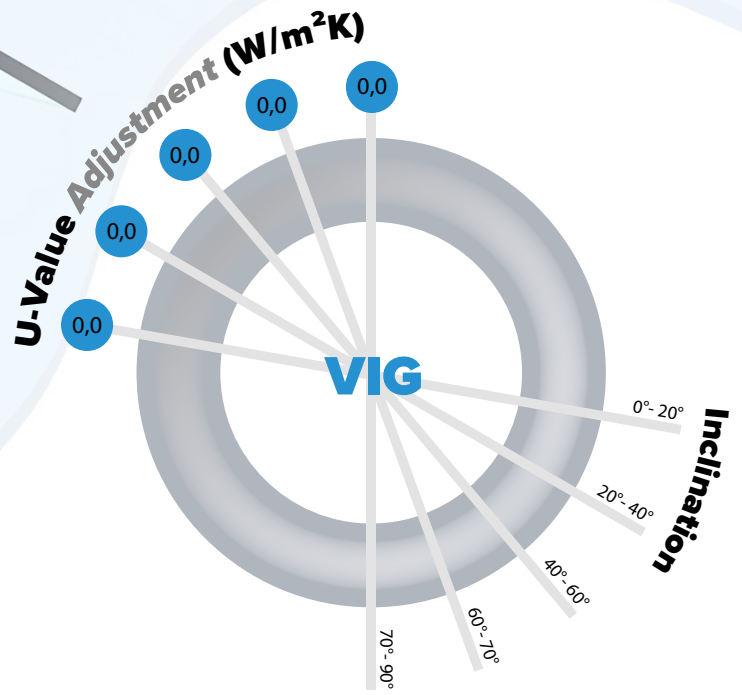
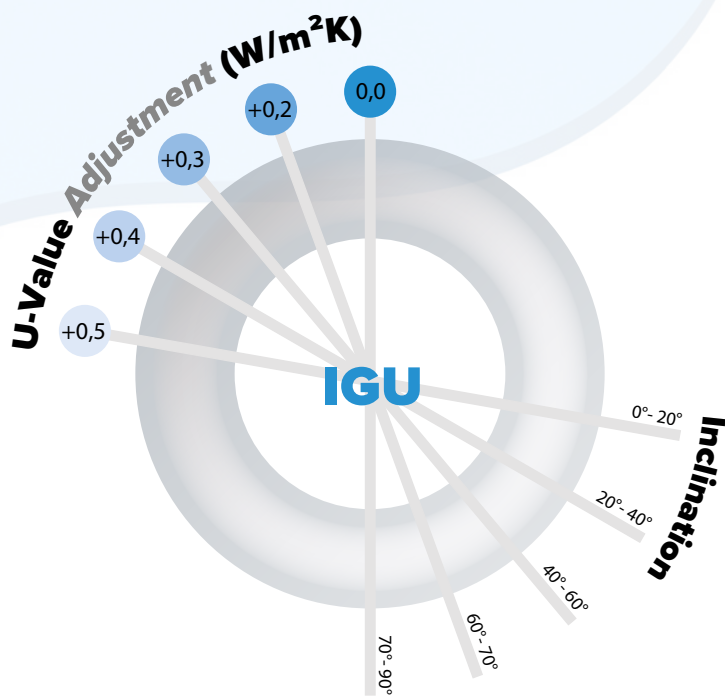
DEVELOPED IN  
**POLAND**

**PATENT  
PENDING**

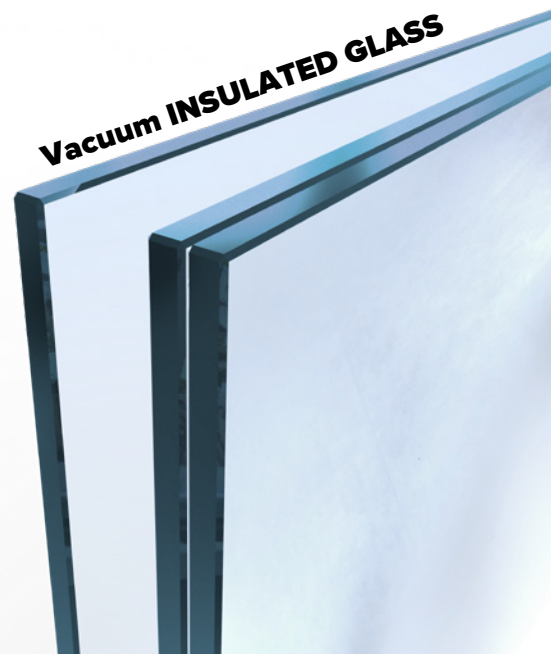
DELIVERY TIME  
**3-4 WEEKS**







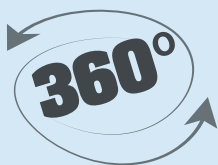
### Vacuum INSULATED GLASS



### 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





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