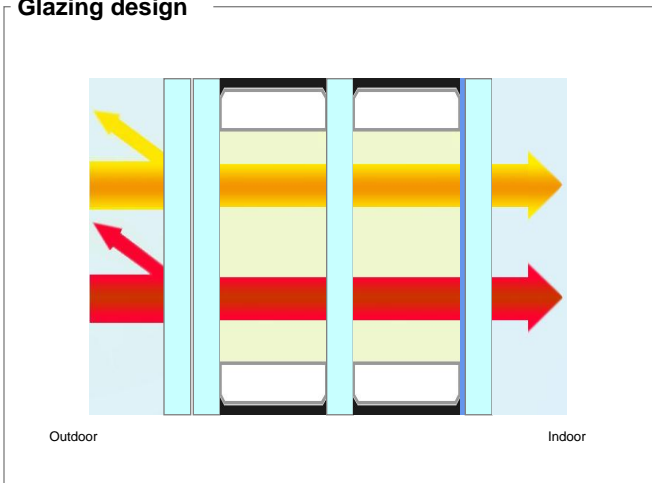


**Glazing design**



	First glazing	Second glazing	Third glazing
Gas		Argon 90% 16.00mm	Argon 90% 16.00mm
Coating			PLANITHERM XN
First glass	PLANILUX 4.00mm	PLANILUX 4.00mm	PLANILUX 4.00mm
Coating			
Layer	PVB silence 0.76 mm		
Coating			
Second glass	PLANILUX 4.00mm		
Coating			

**Sound transmission loss**

$$R_w(C;Ctr) = 39(-2;-6) \text{ dB}$$

**Manufacturing sizes**

Nominal thickness : **48.8 mm**  
Weight : **40.8 kg/m<sup>2</sup>**

**Luminous factors (EN410-2011)**

Transmittance : **72 %**  
Outdoor reflectance : **18 %**  
Indoor reflectance : **18 %**

**Energy factors (EN410-2011)**

Transmittance : **46 %**  
Outdoor reflectance : **20 %**  
Indoor reflectance : **30 %**  
Absorptance A1 : **24 %**  
Absorptance A2 : **6 %**  
Absorptance A3 : **4 %**

**Solar factors (EN410-2011)**

g : **0.52**  
Shading coefficient : **0.60**

**Thermal transmission (EN673-2011) - 0° related to vertical position**

U<sub>g</sub> : **0.9 W/(m<sup>2</sup>.K)**



Andrius  
Stiklorama  
Pramones g. 49a  
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Vilnius

Phone :  
Mobile :  
Fax :  
gamyba@stiklorama.lt

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+37064312223  
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CALUMEN® II is a simulation software to calculate key performance of glass such as light transmission, solar factor or thermal insulation coefficient. Computed values are indicative and subject to change. They can not be used to guarantee performance of the products.

These values are calculated according to EN410-2011 and EN673-2011 standards. Tolerances are defined according to EN 1096-4 or ISO9050 standards. Nevertheless, user must check the feasibility of the associated products, in particular in terms of thickness and colour. Furthermore, it is his responsibility to check that the resulting combination of glazing meets regulatory requirements at national, local or regional level.

Calculation rules and functional output of Calumen II have been validated by TÜV Rheinland Quality Report 11923R-11-33705



• Calculation software  
verified  
• EN 410 and EN 673