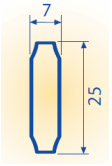
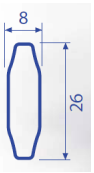
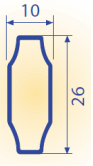
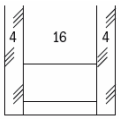
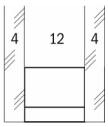
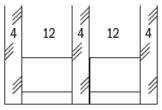
AL7 - MEIPA Srl

Data Sheet
Psi-Values AL7 Georgian Bars

$$Uw = \frac{\sum Ag \cdot Ug + \sum Af \cdot Uf + \sum Ig \cdot \Psi g + \sum \mathrm{Ib} \cdot \Psi b}{\sum Ag + \sum Af}$$

All calculations are in according to UNI EN ISO 10077-2. The representative linear heat coefficients are applied exclusively at **AL7 Meipa Georgian Bars**. All boundary conditions are defined by manufacturers.
The calculated two-dimensional thermal conductance L2D (λ) shall not differ by more than +3 % from the corresponding values given in Table D.3 and Table D.4 in UNI EN ISO 10077-2. This will lead to an accuracy of the thermal transmittance, U, around 5%.

GLAZING		Ug [W/(m² K)]	Ψ-values VICTORIA	VARSAVIA	SUPER10
					
	4/16/4 LE ≤ 0.15 Air 100%	1.7	0.011	0.012	0.026
	4/16/4 LE ≤ 0.10 Argon ≥ 90%	1.3	0.010	0.011	0.024
	4/16/4 LE ≤ 0.03 Argon ≥ 90%	1.1	0.009	0.009	0.021
	4/12/4 LE ≤ 0.04 Air 100%	1.7	0.026	0.031	0.069
	4/12/4 LE ≤ 0.03 Argon ≥ 90%	1.3	0.023	0.027	0.064
	4/12/4 LE ≤ 0.04 Krypton ≥ 90%	1.1	0.015	0.018	0.049
	4/12/4/12/4 2 x LE ≤ 0.15 Krypton ≥ 90%	0.7	0.006	0.006	0.019

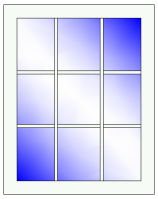
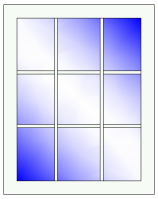
Ug values are in according to UNI EN ISO 10077-1, Table C.2
In triple glazing case, Georgian Bars are located between central and internal panes

Material: Coated Aluminium RAL 9016
Nominal Thickness Wall: 0.7 mm
Thermal Properties: λ = 160 W/(m K); e = 0.9 [1]

An Example:

Ag = 1.80 m²
Ug = 1.3 W/(m² K)
Af = 0.58 m²
Uf = 1.8 W/(m² K)
Ig = 4.72 m
Ψg = 0.050 W/(m K)

PVC Frame, Stainless Steel Spacer,
4/16/4 LE ≤ 0.10,
Argon ≥ 90%

VARSAVIA	SUPER 10
RAL 9016 (26x8)	RAL 9016 (26x10)
	
Ib = 4.72 m **Ψb = 0.012 W/(m K)**	**Ib = 4.72 m** **Ψb = 0.026 W/(m K)**
Uw = 1.6 W/(m² K)	**Uw = 1.7 W/(m² K)**

AL7 Meipa Srl
via Poggio Renatico 1/3, 40016 San Giorgio di Piano (BO) ITALY
ph. +39.051.6630250, Fax +39.051.6630094, info@al7.t ; www.al7.it