



PorfyriosGlass has been processing glazing that offer excellent solar control properties, reduced glare and enhanced thermal insulation.

ENERGY SAVING GLAZINGS

A/A	DOUBLE GLAZING CONFIGURATION			CRITICAL OPTICAL AND ENERGY FACTORS					
	Outer Pane	Spacer	Indoor Pane	LT (%)	LR (%)	SF (%)	U-value (W/Km ²)	Argon 90%	Air
1.	SKN 165 6mm	16mm	Clear 4mm	61	16	33	1.0	1.3	
2.	ENERGY N 6mm	16mm	Clear 4mm	72	12	40	1.0	1.3	
3.	SG 70/33 6mm	16mm	Clear 4mm	70	13	33	1.0	1.3	
4.	SG 0.9 6mm	16mm	Clear 4mm	65	24	48	0.9	1.2	
5.	Bio Clean ST 150 4mm	16mm	Ultra_N 4mm	45	22	35	1.1	1.3	
6.	ELITE 4mm	16mm	Clear 4mm	61	15	28	1.0	1.3	
7.	Planibel Light 6mm	16mm	Clear 4mm	64	25	40	1.0	1.3	
8.	Top N 6mm	16mm	clear 4mm	78	13	54	1.1	1.4	

LT : Light Transmission, LR : Light Reflection, SF: Solar Factor

SOUND REDUCTION COMPARISON*

A/A	DOUBLE GLAZING CONFIGURATION			OPTICAL SOUND AND THERMAL FACTORS					
	Outer Pane	Spacer	Indoor Pane	LT (%)	LR (%)	Rw (C;Ctr) *	U-value (W/Km2)	Argon 90%	Air
1.	ENERGY_N 6mm	11 mm	Laminated 33.1	72	12	32 (-1; -5) dB	1.5		1.8
2.	ENERGY_N 6mm	14 mm	Clear 4 mm Tempered	72	12	36 (-1; -5) dB	1.2		1.5

* The comparison is made by keeping the same thickness of the glazing. **Using toughened glass you gain on spacer gap thus better U-value, and better sound reduction.**

* Direct airborne sound insulation (Rw (C;Ctr) - ESTIMATED) - dB