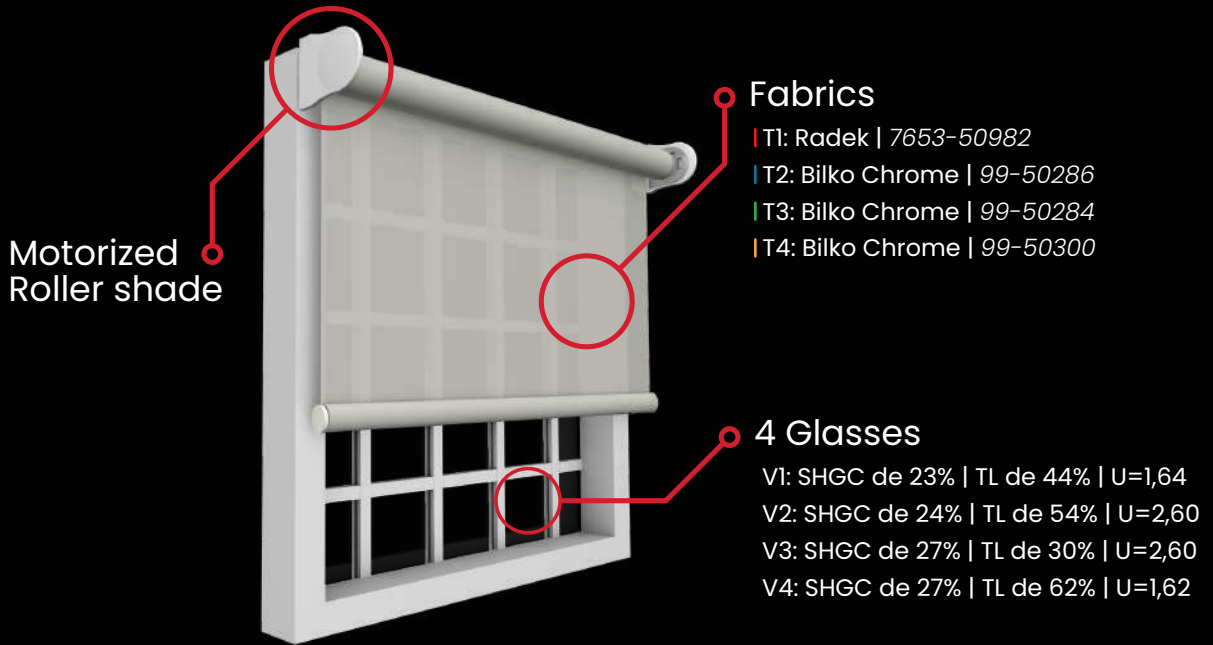


Energy savings through Tanmax roller shades automation.

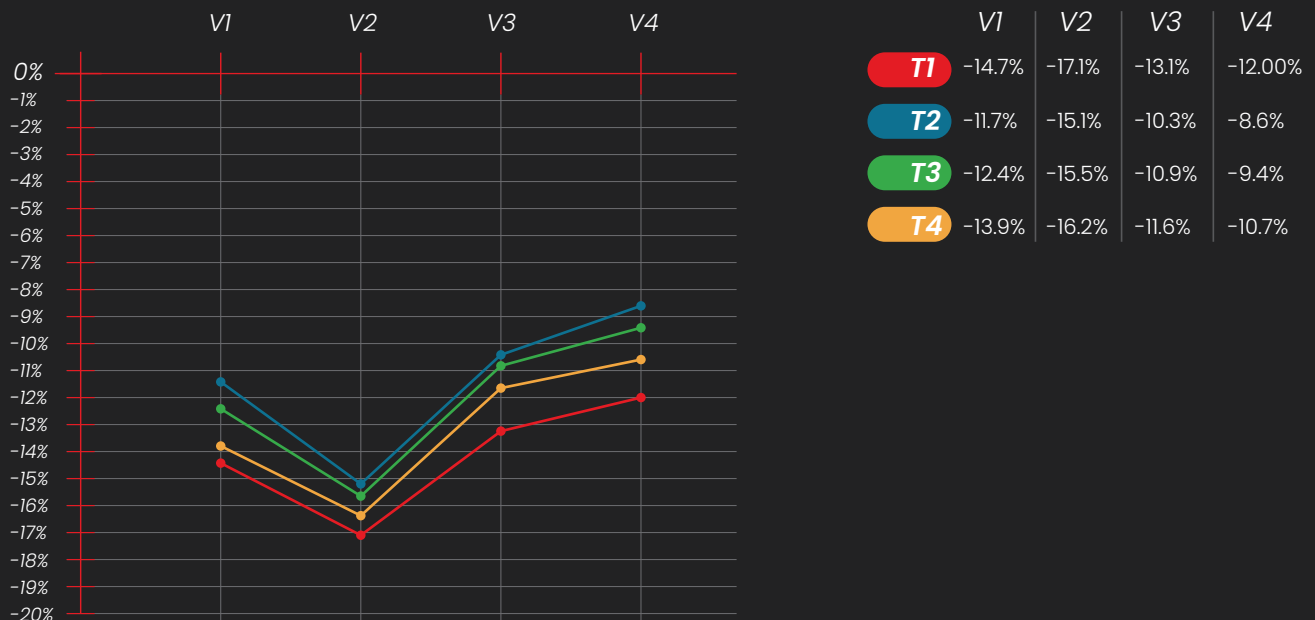
Study data "Simulation of automated Roller Shades in EnergyPlus."

The automation of suitable textiles provides us with the possibility of enjoying passive cooling or heating according to the season, dynamically adapting to climate variations and solar exposure.



SHGC = Thermal heat gain coefficient | TL = Light transmittance | U = Thermal resistance

Total Energy Savings Percentage



1

Dimming and automated roller shades reduce total energy consumption by up to 17.1%.

2

Using Tanmax roller shades has a better potential for harnessing natural light and leads to greater reductions in artificial lighting consumption, in addition to reducing HVAC consumption.

3

Clear glass allows natural light to enter buildings, reducing the need for artificial lighting and potentially improving people's mood and productivity.

4

Clear glass can help reduce energy costs by reducing the need for artificial lighting and allowing solar heat to enter buildings during winter, thereby reducing the need for heating.

Tech specifications



	Fabric	Solar Transmission	Solar Reflection	Visible transmittance	Openness factor	Color Front Back
T1	Radek 7653-50982	0.14	0.75	0.12	3%	
T2	Bilko Chrome 99-50286	0.10	0.46	0.07	3%	
T3	Bilko Chrome 99-50284	0.10	0.53	0.07	3%	
T4	Bilko Chrome 99-50300	0.13	0.64	0.11	3%	



All the glass used in this study is insulated.

	SHGC	Light transmittance	Thermal resistance	Composition	External appearance
V1	23%	44%	1,64	6mm 12.7 mm air 6mm	Blue-grey
V2	24%	54%	2,60	6mm 12.7 mm air 6mm	Neutral
V3	27%	30%	2,60	6mm 12.7 mm air 6mm	Silver Semi-reflective.
V4	27%	62%	1,62	6mm 12.7 mm air 6mm	Neutral-Green

SHGC = Thermal heat gain coefficient



Energy savings

Building with automated blinds and lighting
VS Building without blinds and without automated lighting

	Fabric	Glass 1			Glass 2			Glass 3			Glass 4		
		T. C.	C. HVAC	L. C.	T. C.	C. HVAC	C. I.	T. C.	C. HVAC	L. C.	T. C.	C. HVAC	L. C.
T1	Radek 7653-50982	-14.7%	-24.8%	-18.6%	-17.1%	-29.6%	-19.5%	-13.1%	-21.9%	-17.4%	-12.0%	-18.7%	-19.8%
T2	Bilko Chrome 99-50286	-11.7%	-17.9%	-20.4%	-15.1%	-24.8%	-20.9%	-10.3%	-15.1%	-19.7%	-8.6%	-11.1%	-21.0%
T3	Bilko Chrome 99-50284	-12.4%	-19.5%	-20.0%	-15.5%	-25.9%	-20.5%	-10.9%	-16.6%	-19.0%	-9.4%	-12.8%	-20.7%
T4	Bilko Chrome 99-50300	-13.9%	-22.4%	-20.5%	-16.2%	-27.2%	-20.9%	-11.6%	-17.8%	-19.8%	-10.7%	-15.4%	-21.1%

T.C.: Total consumption | C. HVAC: Air conditioning consumption. | L.C.: Lighting consumption



Optimize the thermal comfort of your building with our automated blinds, designed to reduce thermal load and protect against direct solar radiation. Our blinds provide the necessary solar protection to maintain a cool and comfortable environment throughout the year, allowing for passive cooling and heating to maximize energy efficiency. Additionally, our blinds help you reduce operational costs and qualify for certification systems.