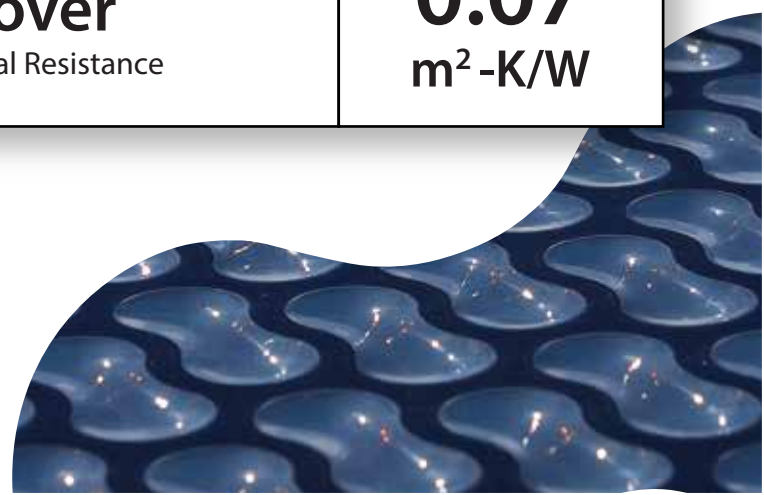




EN17645 Classification



NTB cover Natural Thermal Balance	-45.5 W/m^2
ERC cover Energy Reduction Coefficient	76.4%
RCI cover Real Coverage Index	98%
CO₂ savings Lifetime CO ₂ savings	38 Kg/m^2
Water savings Lifetime Water Savings	25,000 L/m^2
U cover Thermal Transmittance	14.7 W/m^2-K
R cover Thermal Resistance	0.07 m^2-K/W



How this is calculated



EnergyGuard™ Selective Transmission Swimming Pool Covers

Cover Class Environmental Performance Efficiency Class of the cover	According to NTB cover	NTB cover	Class
		NTB > = 0.0	A
		0.0 > NTB > = -50	B
		-50 > NTB > = -100	C
		-100 > NTB > = -140	D
		-140 > NTB > = -190	E
NTB cover Natural Thermal Balance of the cover	$NTB\ cover = S\ cover - I\ cover - E\ cover$	-45.5 W/m²	
ERC cover Energy Reduction Coefficient of the cover	$ERC\ cover = 100 \times (-193W/m^2 - NTB\ Cover) / -193W/m^2$	76.4%	
S cover Index of Solar Heat Gain	$S\ cover = g\ tot \times 200\ W/m^2$	104 W/m²	
g tot Solar Energy Transfer Factor of the cover	$g\ tot = \% \text{ Transmission} + 0.5 \times \% \text{ Absorption}$ Weighted according to atmospheric light availability (300nm-2500nm)	52%	
I cover Index of Thermal Insulation of the cover	$I\ cover = 10 \times U\ Cover$	147 W/m²	
U cover Index of Thermal Transmittance of the cover	According to EN 6946	14.7 W/m²	
RCI cover Real Coverage Index of the cover	% of pool surface physically covered	98%	
E cover Index of Thermal Loss by Evaporation of the cover	$E\ cover = 125\ W/m^2 \times (1 - RCI\ cover)$	2.5 W/m²	