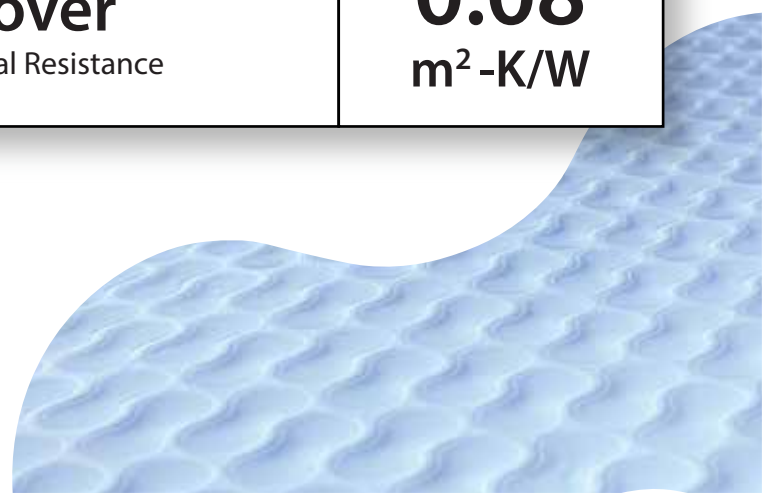




EN17645 Classification



NTB cover Natural Thermal Balance	-91 W/m²
ERC cover Energy Reduction Coefficient	53%
RCI cover Real Coverage Index	98%
CO₂ savings Lifetime CO ₂ savings	38 Kg/m²
Water savings Lifetime Water Savings	25,000 L/m²
U cover Thermal Transmissance	13.5 W/m²-K
R cover Thermal Resistance	0.08 m²-K/W



How this is calculated



EN17645 Classification

CoolGuard™ Ultra Swimming Pool Covers

Cover Class Environmental Performance Efficiency Class of the cover	According to NTB cover	NTB cover	Class
		NTB ≥ 0.0	A
	$0.0 > \text{NTB} \geq -50$	B	
	$-50 > \text{NTB} \geq -100$	C	
	$-100 > \text{NTB} \geq -140$	D	
	$-140 > \text{NTB} \geq -190$	E	
NTB cover Natural Thermal Balance of the cover	$\text{NTB cover} = S \text{ cover} - I \text{ cover} - E \text{ cover}$	-91 W/m²	
ERC cover Energy Reduction Coefficient of the cover	$\text{ERC cover} = 100 \times (-193 \text{ W/m}^2 - \text{NTB Cover}) / -193 \text{ W/m}^2$	53%	
S cover Index of Solar Heat Gain	$S \text{ cover} = g \text{ tot} \times 200 \text{ W/m}^2$	39 W/m²	
g tot Solar Energy Transfer Factor of the cover	$g \text{ tot} = \% \text{ Transmission} + 0.5 \times \% \text{ Absorption}$ Weighted according to atmospheric light availability (300nm-2500nm)	52%	
I cover Index of Thermal Insulation of the cover	$I \text{ cover} = 10 \times U \text{ Cover}$	135 W/m²	
U cover Index of Thermal Transmittance of the cover	According to EN 6946	13.5 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	$E \text{ cover} = 125 \text{ W/m}^2 \times (1 - \text{RCI cover})$	2.5 W/m²	