POOL PROTECTION

COVREX

2.1. Covrex® Classic

Covrex® Classic Slats

With ISO standard 1183 certification, Covrex® pool covers have undergone an extensive series of tests including: Thermal coefficient of expansion testing; Elasticity (rip/tear) testing; and UV testing using xenon gas and other substances.

For optimal strength and durability, we use a co-extrusion process of 3 different PVCs in the manufacturing of our pool cover slats.

Some of the key advantages of the worldwide patented Covrex® pool covers systems include:

- **Insulation:** best insulating pool cover on the market with a U-value of only 0.12.
- **Life Expectancy:** longer lifespan thanks to the extremely high durability of the insulating slats (5 years warranty).
- **Resistance:** the patented foam-filled slats are designed to resist the elements, such as hail, frost and a wide degree of temperatures ranging from -20°C to +70°C. Each drive system is manufactured using stainless steel 316L to avert rust formation.
- **Maintenance:** easy to clean as there is no space between the slats for algae growth or dirt build-up.
- **Safety:** Covrex® pool cover systems (with the correct options) can be used as a security cover (fulfills the rigorous French NF-P90 308 security requirements).
- **Shape:** the covers can be fashioned (on site with a jig-saw) to adopt many free-form swimming pool shapes (i.e. semi- circular).
- **Dimension:** the roll-up diameter of the Covrex® slats is the smallest on the market.

4 standard pool colours

Covrex® Cream White

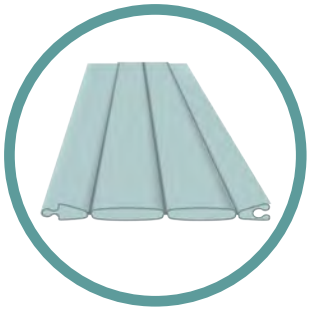
± RAL 9001*

This white is often used for indoor pools, it is an off white to make dust almost invisible on the cover. This colour is gaining in popularity.

Covrex® Silex Grey

± RAL 7032*

This is the most widespread colour. Silex grey is the ideal solution for outdoor pools because it perfectly conseals dust and dirt left after bad weather.



Covrex® Blue Sky

± RAL 5024*

This colour fits well in classic gardens.

Covrex® Steel Grey

± RAL 7037*

It's a sober colour that blends in well in a more modern, sleek environment.

The flexible connections between the slats of a Covrex® Classic pool cover are always in silex grey. Laboratory test have proven that for polyurethane (the material the flexible connection is made of) the colour silex grey is best suited to resist to UV rays and the aging process.

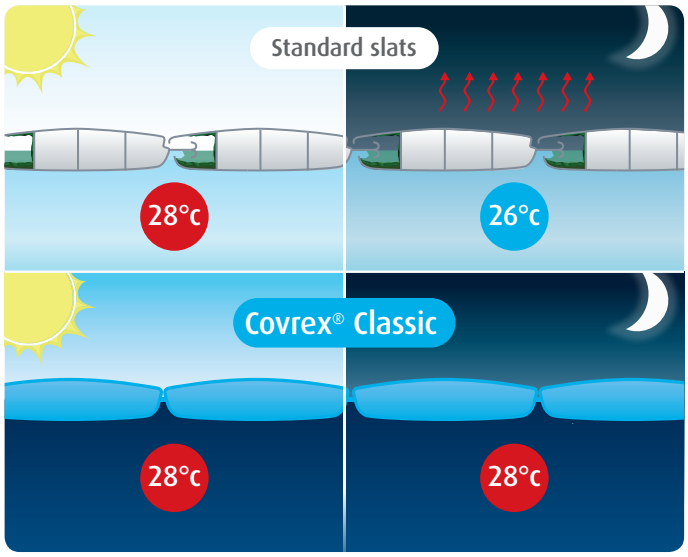
** the RAL references correspond to the most relevant RAL colours. Though, the colour of the slats might differ slightly from the mentioned RAL colour.*

Insulation

The Covrex® Classic foam filled slats keep the water temperature stable. They offer an incredible insulation coefficient of 0,0821 W/(mk). The Covrex® Classic pool cover enables you to enjoy your pool for a longer time period and to minimise the heat loss during the nights and during cooler days.

What makes the insulation of the Covrex® Classic superior to other pool covers on the market?

All traditional pool covers are composed of slats with hollow compartments filled with humid air. This humidity strongly reduces the insulation coefficient. Furthermore, the traditional hollow slats are joined together by hinges which, for their part, also add to an additional heat loss.



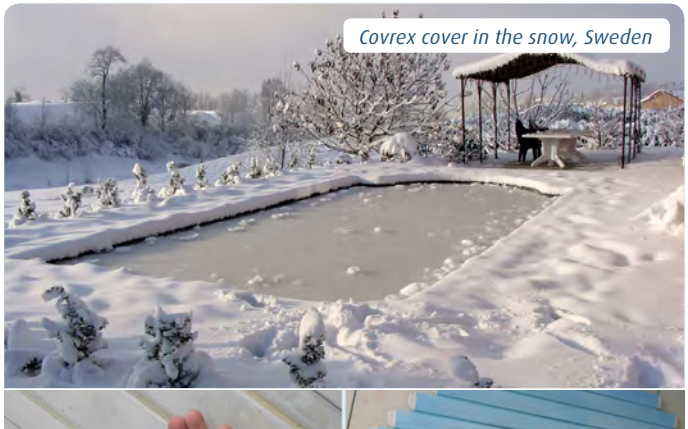
Resistance to heavy weather conditions and hail

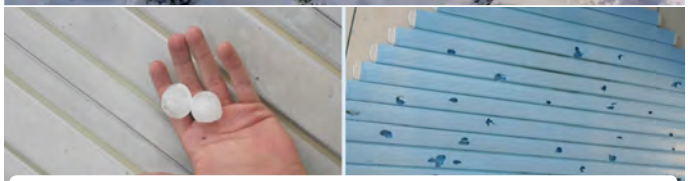
More than 5 years of research have led to an amazing technology that offers a strong resistance to heavy weather conditions all year long. Compared to traditional covers that are often damaged by frost, hail and storms, the Covrex® Classic covers are fully resistant to these extreme conditions. Hail or frost damage to the functionality is even covered by the warranty!

Furthermore, thanks to the materials used, Covrex® Classic pool covers can resist extreme wintertime temperatures and keep their flexibility, even down to -20°C. This gives pool owners the opportunity to leave their Covrex® cover on the pool during winter without having to add extra protection or lower the water level. There's no need for a winter canvas or bubble cover.

On the other hand, with high temperatures causing traditional pool covers to warp, the Covrex® Classic covers preserve their original shape even up to 70°C. Covrex® covers can be left in the sun without being damaged.

During autumn when dead leaves fall onto the pool cover, Covrex® maintains the quality of your pool water thanks to its flexible connection without leaving any space between the slats preventing dirt and dust to reach the water.





Covrex® cover (left) vs. hollow slatted cover (right) after very heavy hail storm, 9th of July 2014, Belgium

*Hollow slat after hail resistance test**

Covrex® slat, after the same test

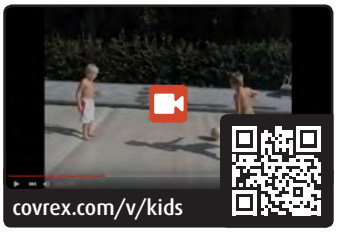
**Test conducted by an external laboratory*

Safety cover

One of Covrex®'s main objectives is maximum safety. Therefore we developped our pool covers based on the French safety standard NF P90-308 concerning pool covers. We fully comply to this standard and exceed it even 7 times on some points. This way our Covrex® pool covers ensure a perfectly safe pool for children and for adults.

You can also equip your pool with safety hooks which increase its safety even more : with this option several adults can walk on the cover without any risk that the cover will tear or break. Hand rails along the pool walls are also available.

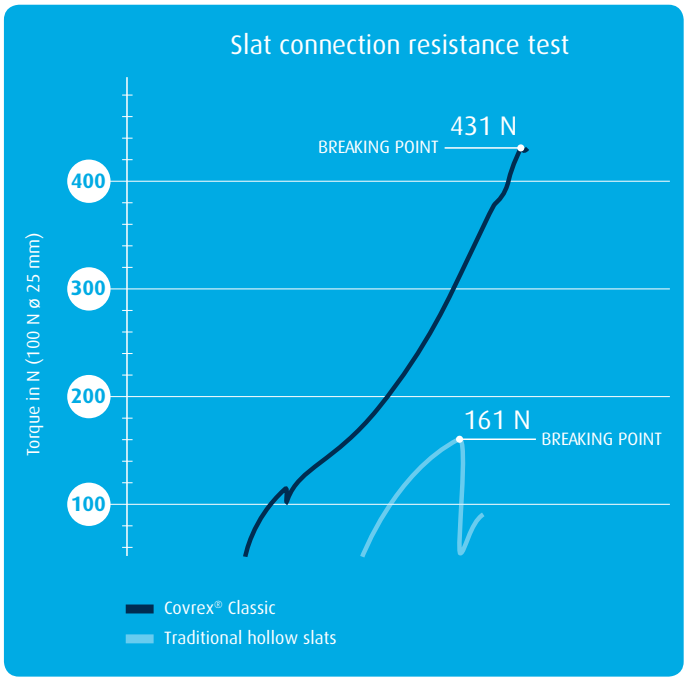
Some pool types have a safety ledge all around the pools for increased safety.

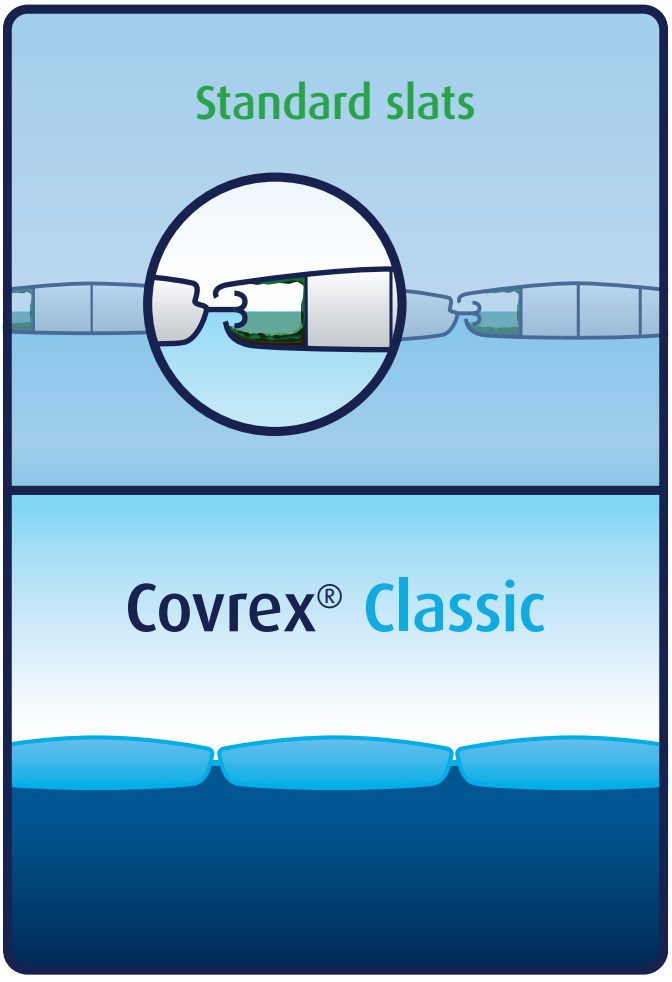


Anti-algae slats, easy maintenance

The foam filled Covrex® Classic slats are coextruded in one piece with a flexible connection instead of a traditional hinge. Consequently, dirt and algae can't enter into the hollow compartments. Their smooth surface prevents algae to stick to the slats. This leads to the big advantage of an easy maintenance cover: it can even be cleaned with a pressure washer.

The flexible PU joint is extremely resistant (also in the long run). This has been confirmed by laboratory tests available on video hereunder. The results of the connection resistant test (comparison of Covrex® vs hollow slats) are available on the graph below.





Aesthetics

The Covrex® Classic pool covers are the only ones with foam filled slats, offering an incredible resistance and a perfect finishing, even for curves. For pools with a special form the pool builder is able to cut the slats to the right shape on site. This allows your cover to follow the curves of your pool perfectly.

Thanks to Covrex® Pool Protection, a traditional cover with a stepped form is now a thing of the past.

Round shaped Covrex® Classic Slats

Hollow slats with endcaps

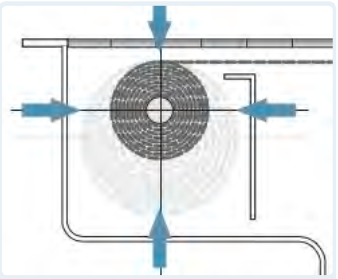
The space-saving pool cover

Thanks to its well considered design the rolled-up Covrex® pool cover has a 50% smaller diameter than traditional pool covers. It leaves you therefore with more swimming space to enjoy.

For example, the diameter of a rolled up cover of a 12m long pool is only about 50cm. You lose only 50cm of free swimming space where a traditional pool cover would make you lose 70 or even 110cm.

Covrex® Classic roll-up diameters

Cover length	diameter on a 114 mm axle	diameter on a 141 mm axle
0 m (base)	114 mm	141 mm
3 m	270 mm	280mm
8 m	375 mm	420mm
10 m	425 mm	465 mm
12 m	465 mm	500 mm
14 m	505 mm	535 mm
16 m	535 mm	560 mm
18 m	575 mm	585 mm
20 m	600 mm	620 mm
25 m	–	700 mm



the rolled-up Covrex® pool cover has a 50% smaller diameter than most traditional pool covers

Technical data

Coextruded pool cover with foam filled slats and a flexible connection in Polyurethane.

Release: 2006
Warranty: 5 years, including damage due to freezing temperatures and hail (see warranty conditions).
Conformity: French security standards **NF P 90-308**
Dimensions: *length:* 19.6mm per slat, width tailor-made.

Mechanical characteristics

Interior: Expanded PVC
Exterior: Compact PVC
Flexible connection: Polyurethane (TPU)

Tear propagation resistance of the "PUR" polyurethane hinge to "ISO 34/1" in N / mm	>= 55
Tensile strength of the hinge in N to "ISO 527" (measured on a 255mm-long profile sample, speed 50mm/min)	>= 150
Coefficient of linear expansion in 1/*K to "DIN 73752"	ca.0,8*10-4
Artificial weathering "xenotest 1200" cycle 102: 18 min, 4000h to "ISO 4892"	Grey scale > stage 3
Weight per m² in kgw	Approx. 7.0

Thermic characteristics

Temperatures: min. -20°C and max. +70°C

When operating the cover, it should always be free from snow and ice.

If there is a large difference in temperature between the air and the pool water, it is possible that the slats will bent slightly on the outsides. This is only a minimal effect and of short duration and it will vanish completely once the difference disappears.

Chemical characteristics

Allowed PH-value of the water: between 7.0 and 7.4
Maximum value of chlorine: 2 mg/l

After a shock treatment, the cover must remain open for 24h while the filtration keeps functioning.

When salt electrolysis is used to treat the water; connect the cover to the electrolysis appliance so the chlorine production will be stopped or minimized when the cover is closed. This is very important in order to avoid over-chlorination. Damages caused by over-chlorination are not covered by warranty.

Maintenance

- In order to maintain the good quality of your cover, it is important to clean it on a regular basis. If you do this with a high pressure cleaner (max. 60°C, minimum distance of the jet-pipe is 500mm), we advise to also use a cleaning product for pool covers.
- Before using the cover, all the leafs, branches and other windfall should be removed from the cover.
- It is forbidden to use sharp or coarse materials or tools to clean the cover.
- We advise the use an anti-lime product in the water. This reduces the lime deposits significantly.

Use

Our recommendations for the use of the cover are available on request to info@covrex.com or you can download them from our website www.covrex.com

Laboratory test results

The visuals showing the resistance test and the comparison with the traditional hollow slats are available through the following Internet links :

- **Tear test:** http://covrex.com/v/connection
- **Shock resistance:** http://covrex.com/v/hail
- **Accelerated ageing:** http://covrex.com/v/life
- **Safety (with safety hooks):** http://covrex.com/v/kids