

# VARIO DECK

COVERING YOUR ENERGY



SPECIALIST IN PUBLIC  
POOL COVER SYSTEMS

[WWW.VARIODECK.NL](http://WWW.VARIODECK.NL)

# COVERING YOUR ENERGY

Welcome to Variodeck

Pool cover systems for public swimming pools



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Variodeck is an expert in the field of cover systems for public swimming pools. In this brochure we would like to introduce ourselves to you.
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Both pool owners, pool builders and pool designers benefit from a pool cover. What they are? Browse further!
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Which system is the best suited solution for your specific swimming pool depends on various factors. We are glad to help you with this choice.
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Variodeck helps from A to Z. We find it important that you get the maximum efficiency out of your cover system.
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We already installed several project throughout Europe with success. Take a look at our website for more project references.

# THE BEST IN THE MARKET



## Quality

We provide pool covers subject to high requirements. Our systems comply with the highest demands in the public market.

Swimming pool de Molenkoog,  
Den Burg Texel

## WHO WE ARE

Variodeck B.V. is the worldwide specialist in the field of cover systems for public swimming pools. We are part of the Variopool Group, market leader in the field of movable swimming pool floors and retaining bulkheads. With our international network of partners in the pool branch, we offer the perfect solution for every application.



## WHAT WE DO

Variodeck offers customized advice, develops, manufactures and installs energy-saving cover systems for public pools. We provide solutions for existing pools, renovation projects and construction projects of new pools. Thereby we collaborate closely with end users, municipalities, consultancy agencies and architects.

Together with you, we will find the best solution for your specific situation. We unburden you throughout the entire process, from application to realization and finalization. Even after the project completion, we are 24/7 available for service and maintenance of your cover system.

With a Variodeck cover system you will save on energy bills and you contribute to a cleaner environment on global scale by reducing CO2 emissions. Besides those advantages it saves on your operating costs, you will have a return on investment within a few years. Our own calculation model will show you the payback period of your Variodeck system as well as your energy savings after installation.



# S AVINGS

Save up to 70% on your energy cost. One more reason to purchase our pool cover system!

## SAVINGS FOR INDOOR- AND OUTDOOR POOLS

A Variodeck system will help you save considerably on costs for every hour your swimming pool is not being used – this is the case for both indoor and outdoor pools. Cover your swimming pool at night, when most heat is lost. For indoor pools, this is less obvious than for outdoor pools, but the savings are still considerable.

Covering an indoor pool reduces evaporation of the pool water, with a decrease of the air humidity as a result. Lower air humidity will previously turn off fans and the dehumidification unit, which provides indirect savings on heating and electricity cost.

## VARIDECK = SAVING ENERGY

Research shows that a Variodeck cover system saves up to 70% on the heating cost of pool water.

On average, the total energy costs of a swimming pool amount to 20% of the total operating costs. This means that decreasing energy cost will save you big time!

The principle of our system is simple:

Our cover reduces heat loss from pool water through evaporation, radiation and convection. In order to illustrate this fact, the table on next page gives an indication of energy savings if the pool requires less heating due to the application of a pool cover system. The percentages in this table show very interesting potential savings.

### Did you know:

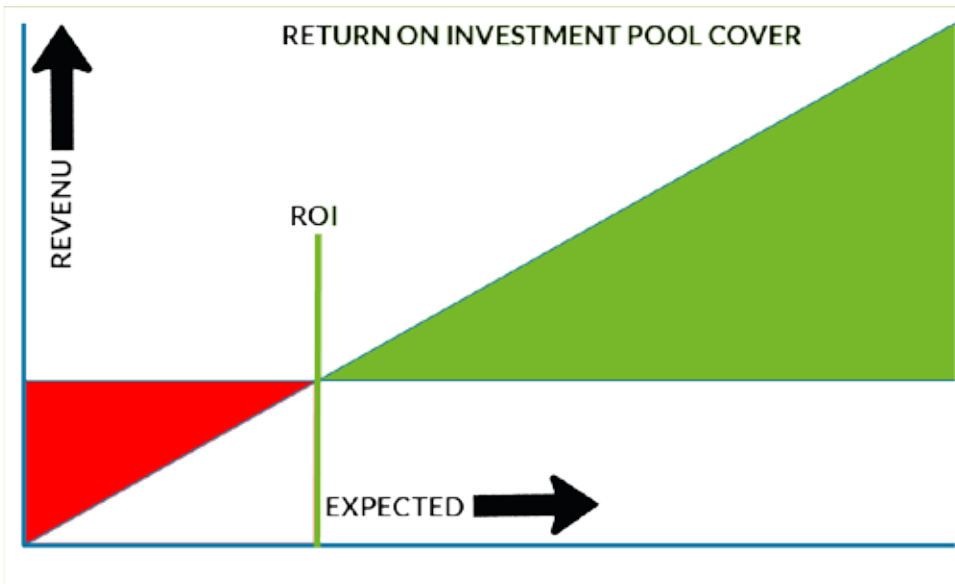
You contribute to the reduction of CO2 emissions by covering your pool?

A cover system saves you up to 70% on the energy costs of heating your pool!

## RETURN ON INVESTMENT

The model shown aside, indicates how soon you will earn back your Variodeck system. What will you do with the extra spending limit once you have earned back your investment?

Imagine that, after a couple of years, you will be able to invest in additional comfort, new facilities and other features that will attract even more visitors to your swimming pool.



## SAVE EVEN MORE?

Do you have one or several outdoor pools with limited opening hours? Do you have a swimming pool complex where one or more pools are out of operation during day time? Then our Variodeck solar slats help you to save even more on your energy costs! Besides retaining heat, these special slats also act as an heating source during sunny spells.

## HOW MUCH WILL YOU SAVE WITH A VARIODECK SYSTEM?

Curious how much you can save? We are pleased to be able to calculate your saving! Please contact us at [info@variodeck.nl](mailto:info@variodeck.nl) and find out what benefits a Variodeck system has got for you.

In cooperation with our partner Innax Group and the TU Delft we have developed an energy saving calculation model in order to calculate your saving. We perform our calculation based on variables like: size of the water surface, water temperature, area, etc.

Water temperature	Water surface standard pool size (50x20 mtr.)	Savings compared to your current energy consumption by application of a Variodeck
°C	m <sup>2</sup>	%
21	1.000	40
22	1.000	43
23	1.000	47
24	1.000	50
25	1.000	55
26	1.000	58
27	1.000	60
28	1.000	65

# BENEFITS at a glance

A Variodeck system offers many benefits for both pool owners, pool builders and pool designers.

- **BENEFITS FOR YOU AS A POOL OWNER:**

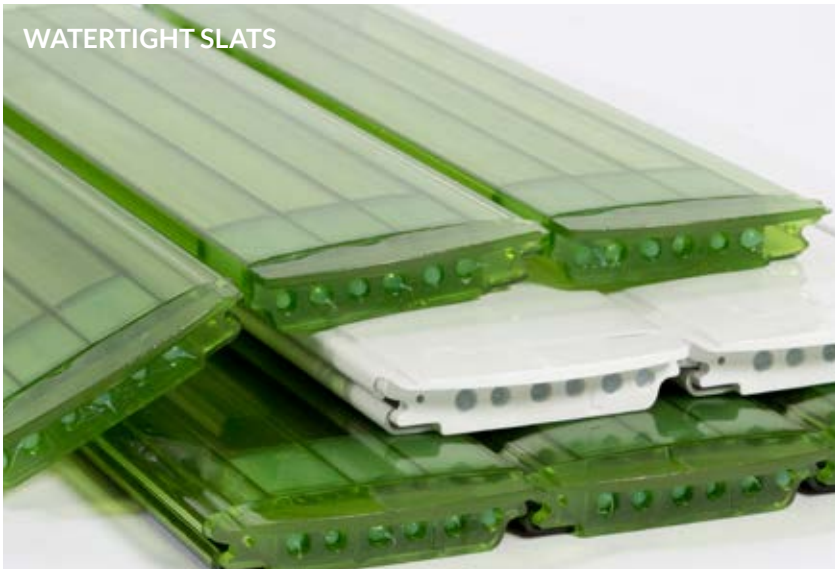
- Save up to 70% on your energy cost for pool heating.
- Great contribution to the communal reduction of CO2 emission.
- Lower maintenance cost because:
  - *A pool cover keeps out dirt from your pool.*
  - *Lower chemical consumption due to reduced evaporation.*
  - *Less growth of algae in the pool.*
  - *Indirect saving on air dehumidification (for indoor pools).*

- **BENEFITS FOR YOU AS A POOL BUILDER AND DESIGNER:**

- Independent installation
- Does not require extensive test and installation phases.
- Our flexibility ensures extensive availability for your project planning.
- We keep your business processes in mind with our R&D and work on site.
- Turnkey installation.
- Unburden from A to Z.



## WATERTIGHT SLATS



## REMOTE CONTROL

In order to operate your Variodeck system from distance, we optionally provide a robust remote control.



## TYPES OF COVER SYSTEMS

The choice of a cover system depends on several factors, such as: the location, the shape and the construction of the pool. The presence of any obstacles, such as swimming pool steps, play equipment or starting blocks, also affect the choice. With our understanding of your specific situation we will support you with our customized advice.

In general, Variodeck distinguishes the following two different types of pool cover systems:

1. *Built on systems* for existing pools.
2. *Integrated systems* for construction projects of new pools.

## TYPES OF COVER MATERIAL

In consultation with you, we advise which type of cover material is most suitable for your specific needs.

Principally we distinguish foam blankets and slats as our main cover materials. Our slats are available in different types and in various materials. Our standard type of slat contains air compartments and is finished with a glued or welded end cap



## OPERATION

Variodeck systems are easy to operate. Depending on the cover system of your choice, operation is either fully automatic, semi-automatic or manually. Because of the simplicity and usability, every person is capable to operate our control panels. Our range of control panels varies from key switch to touchscreen panels.

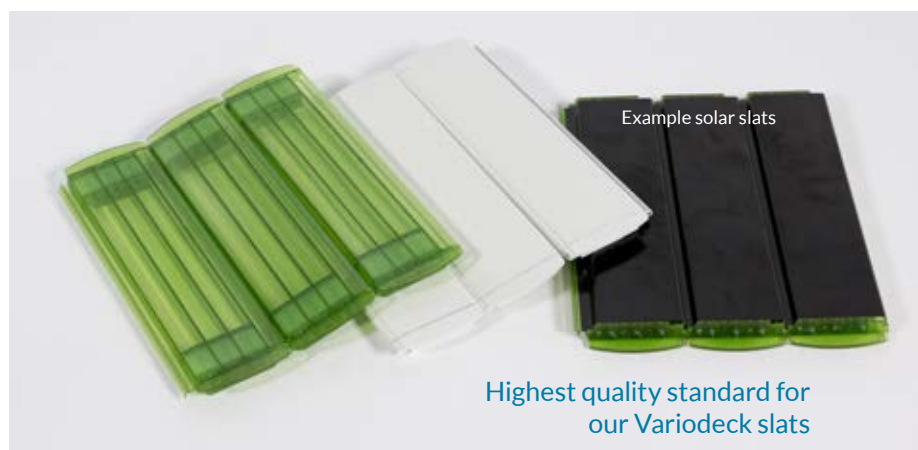


## STANDARDS

We comply with all safety requirements imposed by the public market, including:

- EN 13451-1 up to EN13451-11
- EN 15288
- NFP 90-308

In addition, all Variodeck products comply with the CE-Standard and the machine guidance 2006/42/EC.





## BUILT UP SYSTEMS

The Variodeck built up system is an easy and affordable solution for covering existing swimming pools.

A built up system is an above ground pool cover solution that can be installed above or beside the pool. The benefits of such a system are:

- Low investment.
- Short delivery time.
- Quickly installed.
- Short earn back period.

## VERSIONS

The built up system is standard available in the following different versions:

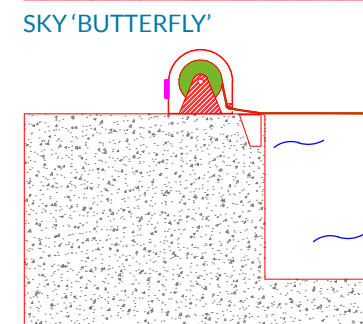
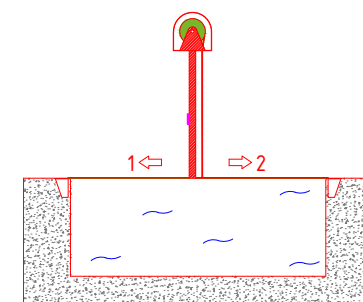
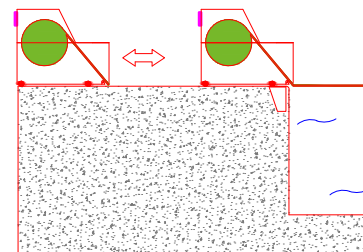
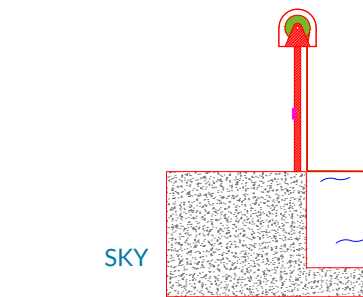
- A system mounted on or behind the edge of the pool.
- A mobile system, which can be rolled from and to the edge of the pool.
- A roller system mounted on columns next to or over the pool.
- In case of an indoor swimming pool; a roller system mounted to the construction of an existing building (on ceiling or between walls).

Depending on your situation, Variodeck built up systems are available in fully automatic, semi-automatic and manually operated versions.

## FINISHING

Optionally, we supply our built up systems with a multi-functional protective cover in the form of a steel housing or a sleeve.

The protective cover contributes to the atmosphere of your pool. It hides the slats from the view of your guests, and - in the case of an outdoor swimming pool - it protects your cover system from extreme weather conditions and vandalism.

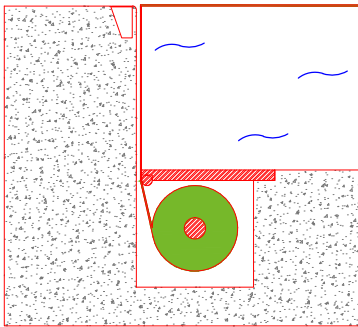




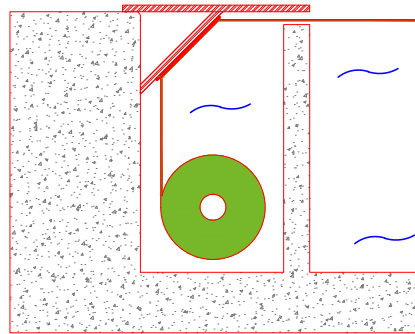
# INTEGRATED SYSTEMS

For construction projects of new swimming pools, the integrated Variodeck system offers a smart and innovative solution. Because the project concerns a new construction, the integration of a Variodeck system is included in the design phase of the pool. The benefits of such a system are:

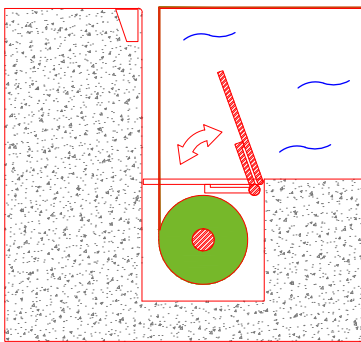
- Fully integrated in your swimming pool.
- Fully automatic for maximum ease of use.
- No impact on the appearance of the swimming pool.



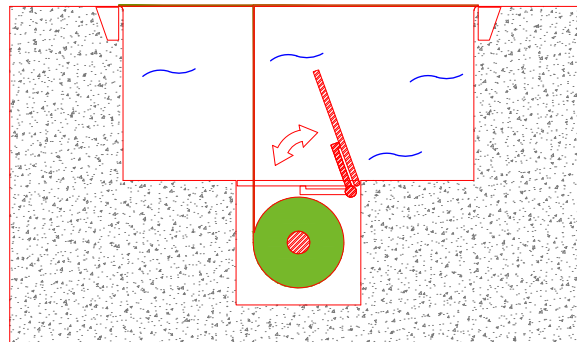
FIXED LID



TERRACE



MOVEABLE LID



MOVEABLE LID 'BUTTERFLY'

## VERSIONS

It is common to integrate the cover system in a specially by Variodeck designed recess, which can be isolated from the pool with a lid. Our creative engineers always come up with a special proposal, in which they offer many possible applications. That is how we design recesses on each desirable place in your pool as:

- In the pool floor.
- Underneath the edge of a pool.
- In the terrace of a pool.


## FINISHING

Variodeck offers several options for closing off the recess from the pool and its surrounding area. A fixed or movable lid is a frequently used solution for closing off a recess in the floor of a swimming pool. A recess underneath the pool edge or terrace is often closed by a concrete or polyester dividing wall. We also supply terrace constructions with a wooden look to close off the top of the recess.

**Did you know:**

The major part of heat losses in swimming pools are caused by evaporation?

A Variodeck pool cover heat loss of pool water to a minimum!



## TOTAL CARE CONCEPT



### SERVICE AND MAINTENANCE

In case of intensive daily use, a Variodeck system has a lifespan of at least 15 years. When a system is regularly maintained, its lifespan will be extended with many years.

We find it important that our customers can get the maximum value out of their cover system. That is why we offer maintenance contracts after the completion of projects. In this way the safety and reliability of our systems can be ensured. These contracts can include periodic inspections and, where necessary maintenance of your system.

Opting for service and maintenance with the purchase of your Variodeck system offers many advantages. For instance, your pool does not need to be drained for periodic inspections, maintenance or repairs, as the work will be carried out by certified divers. This saves you additional expenses for draining, filling and re-heating the pool. An Extra benefit of choosing for Variodeck maintenance is that we are familiar with your installation. In addition, we draw up a clear maintenance report at the end of each inspection or after maintenance work, so that you as a pool owner will be well informed about the status of your Variodeck.

# REFERENCE PROJECTS



De Poppe, Markelo



De Scheg, Deventer



Molenkoog, Den Burg



Heersdiep, Den Helder



Hotel, Molitor (Paris)





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Variodeck is a subsidiary of the Variopool group

