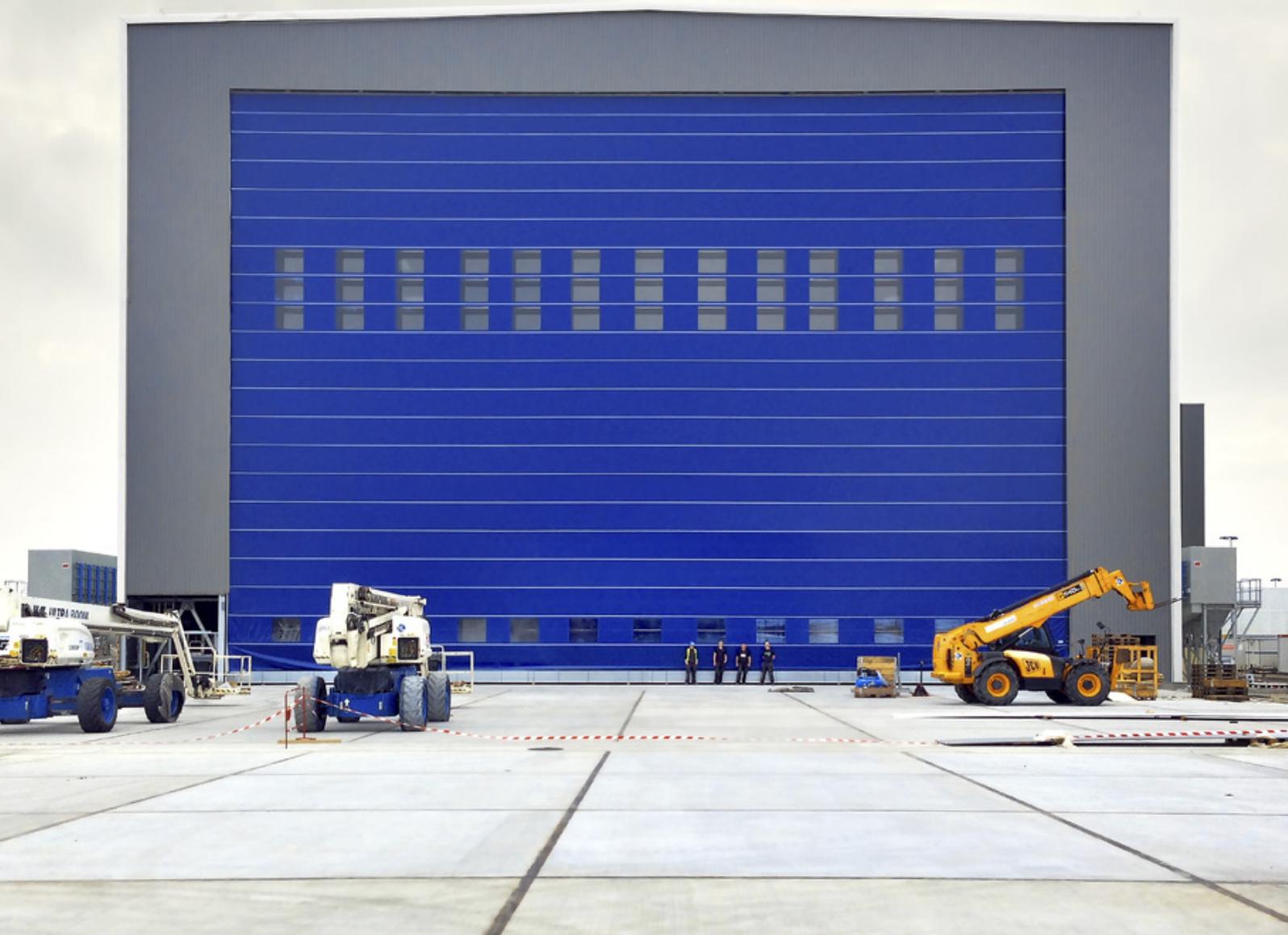


# CHAMPIONDOOR®

Hangar doors and large industrial doors



# CHAMPIONDOOR®



Champion Door is an internationally respected manufacturer of doors for demanding applications. Our customers are international companies that value their work and want their doors to be durable and reliable even in extreme conditions. Champion Door fabric fold-up doors are reliable and have a long service life. They withstand serious professional use and have low maintenance costs. The doors have been designed to be highly resistant to moisture and temperature changes, dirt and dust as well as very high wind loads. Unlike conventional sliding door solutions, the doors do not take up any space on the sides.

The fabric material of the doors can withstand heavy wear without breaking, and the innovative fixing guarantees the straightest door surfaces and neatest appearance on the market. The doors are nearly maintenance-free and can be equipped with thermal insulation, soundproofing and anti-burglar fabric. The fold-up doors and partitions are made of standardised components according to customer needs.

Champion Door is a sign of high quality. Our patented technical solutions, modern production line and quality monitoring all guarantee the highest quality and operational safety. All our door products are CE-marked and comply with all current standards.

**CHAMPIONDOOR®**

HANGARS >



< INDUSTRY



< SHIPYARDS AND PORTS



WAREHOUSES >



< CRANEWAYS



< ENERGY



MINES >





# Hangars

Champion Door solutions with elevating support posts are ideal for extra wide and extra high doorways. The large partition-free doorways of aeroplane and helicopter hangars and specialised machine rooms require doors with special properties.

The NK2 Double and NK4 Warm models have been designed specifically with larger industrial doorways in mind. Their rigid frame structure makes them ideal for use as large external doors. The NK4 Warm comes with two additional insulation layers for added thermal insulation and soundproofing. The PVC material is designed to resist the chemicals used for de-icing aircraft and withstand violent winds.



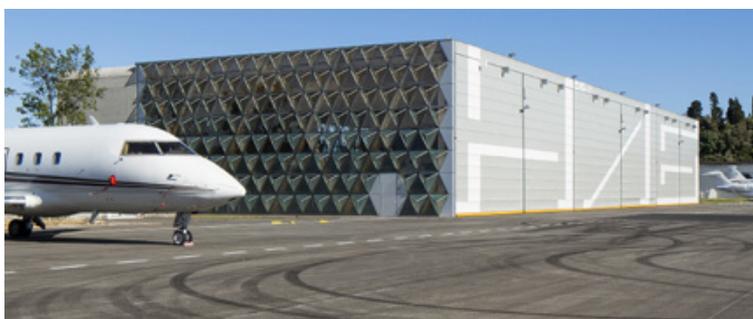


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*The elevating support posts leave the doorways to aircraft hangars completely partition-free.*

*The NK4 Warm is especially popular in aircraft repair hangars. It is a solution that complements the door's thermal insulation and soundproofing with two extra insulation layers.*

*The doors can also be controlled by a computer, touch screen or SRC remote control.*



Industry



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Within the industrial sector, door solutions are part of a comprehensive production chain where special demands are placed on the doors' functionality, durability, safety and energy efficiency. The ability to open large doors quickly plays a major role in terms of energy efficiency, and flexible usability improves the overall efficiency.

Champion Door offers many different alternatives for industrial installations and commercial properties, always taking into account the special circumstances of each doorway.

*Several different opening solutions are available as options, including radio control. The control box of the door can be connected to the different multi-functional control systems.*



*Close co-operation between the designers and builders guarantees successful door projects and customer satisfaction.*



*The NK4 Warm is a two-ply fabric fold-up door with two added insulation layers. We manufacture door for all wind classes.*



# Shipyards and ports

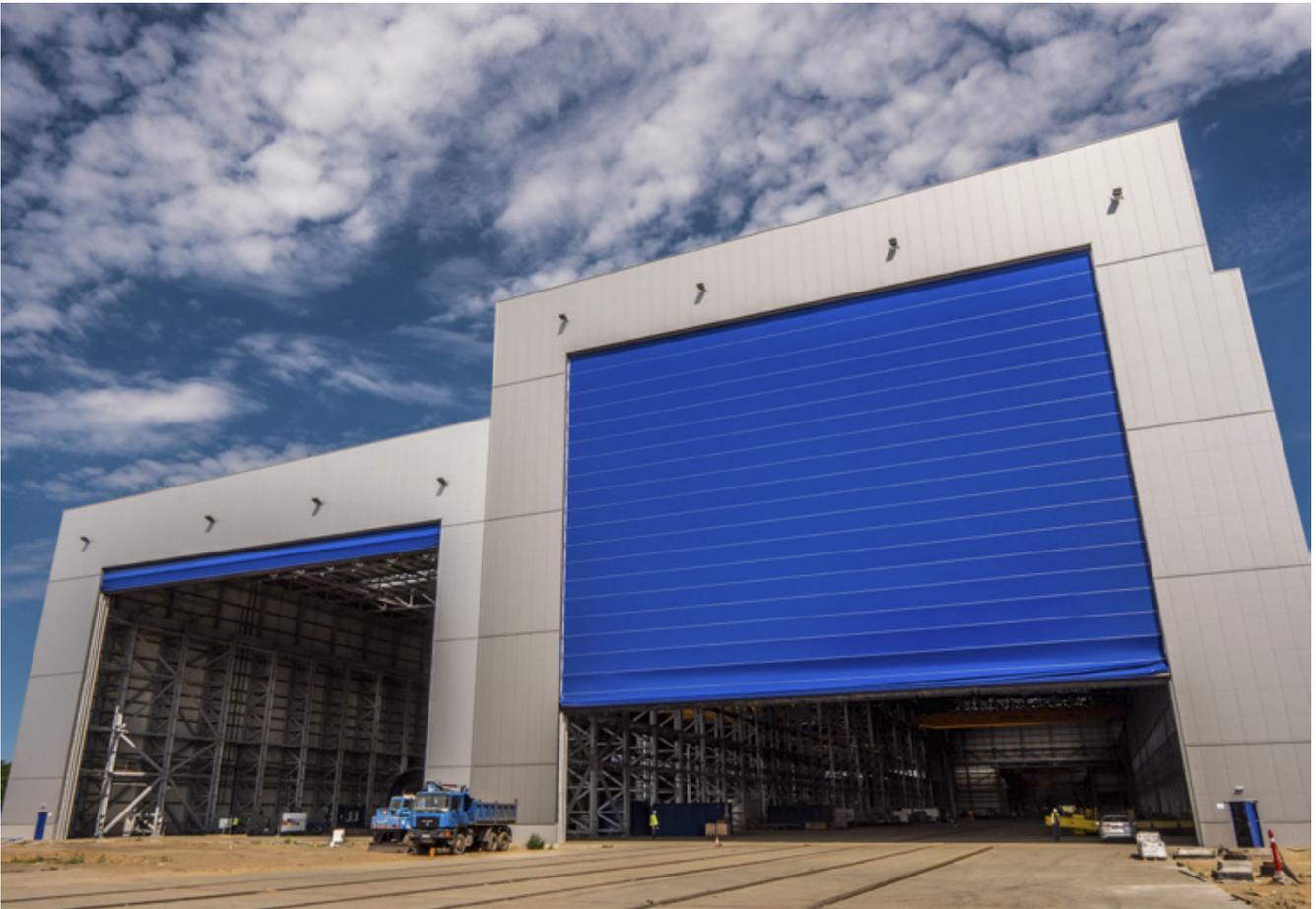


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Functional door solutions are vital for the efficient operation of shipyards and ports. Reliable operation and flexible use make Champion Door fabric fold-up doors an extremely competitive option for these applications. Shipyard and port doors must be reliable and able to withstand sea air and high wind loads.

There are no size or wind limits for custom-designed Champion Door products.





*There are no size limits for custom-designed doors.*

*Fabric fold-up doors are at their best in tall doorways, as they take up no space inside the building to open. Unlike conventional sliding door solutions, the doors do not take up any space on the sides.*



# Mine doors



Champion Door's mine doors are made to withstand extreme conditions: dirt, moisture, dust and hot and cold air. Tarpaulin fold-up doors for cold northern conditions can be fitted with a fabric withstanding temperatures as cold as 60 degrees below freezing. Champion Door's fabric fold-up door is the only model on the market with additional thermal insulation available if necessary. In a mine door with good thermal insulation, condensation of moisture on the door surface is minimal, and the door is highly reliable even in Arctic conditions.

The tight structure of the door saves energy and increases employee comfort by preventing draught. The corrosion protection of the components makes the metal parts of the doors particularly strong. The doors have a long service life with little need for maintenance, so their life-cycle costs are highly affordable.

# CHAMPIONDOOR®



## *Champion Door mine door:*

- *Specially designed for dirty, moist and dusty conditions*
- *Withstands extreme temperatures: -60...+70 °C*
- *Additional thermal insulation as necessary*
- *Corrosion protection*
- *Little need for maintenance*
- *High cost-efficiency*



# Craneways





CHAMPIONDOOR®

*Sealing craneways with door solutions considerably improves the building's energy efficiency and also reduces dust and noise problems.*

Champion Door fabric fold-up door technology is ideal for the large special doorways required within the industrial sector. Champion Door craneway doors are especially designed to eliminate the problems traditionally associated with craneways. Large industrial halls where cranes are used can be divided with special door solutions that cover both the craneways and access doorways with a single fold-up door assembly. The door can also be used separately, and the whole door can be raised when the craneway is in use. This solution is extremely practical and flexible.

# Energy





*With its rigid frame, the NK2 Double is an excellent solution for energy storage. The door is also available with a reliable frame structure designed specifically for dusty areas.*

A fabric fold-up door is a particularly reliable solution for the storage and handling of biofuels, such as wood, woodchips, peat and pellets. Champion Door's product range includes a door model particularly designed for dusty and dirty conditions. With lorry traffic in mind, there are various control options available for the doors, including radio, radar and pull switch control. Safety can be improved by an impact sensor at the lower edge or a mirror photocell, for example. Some of the fabric can be replaced by mesh, which helps to reduce the effect of wind loads on the door. At the same time, the mesh lets light through and improves ventilation, which is important for woodchip storage, for example. The door can also be fitted with a transparent PVC window.



*Using mesh modules allows more light into the building and improves ventilation. The dense mesh stops snow and rain from penetrating into the building.*



*Champion Door fabric fold-up doors are highly reliable in cold conditions.*



*The door can be fitted with a motion detector, which makes it open and close automatically.*

Champion Door offers a wide variety of door and partition solutions for warehouses. For outdoor storage where minimal weather-resistance is required, lightweight one-ply tarpaulin doors and partitions are also available; alternatively, the PVC fabric can be replaced by a protective mesh designed especially for doors, or a combination of PVC fabric and mesh can be used. This minimises the effect of wind loads on the door and also allows light and air to circulate in the building. The dense mesh stops snow and rain from penetrating into the building.

The door can also be fitted with a transparent PVC window. Mesh solutions are also ideal as partitions in large spaces. There are no wind or size limits for custom-designed two-ply doors with frames.

*Thanks to the fold-up technology, the NK1 Single takes up no room inside the building. The picture shows warehouse doors partially made of mesh.*

## Warehouses





*A warehouse door may also be made entirely of mesh. The mesh prevents snow, birds, etc. from entering the building. At the same time, however, it allows light and air to circulate.*

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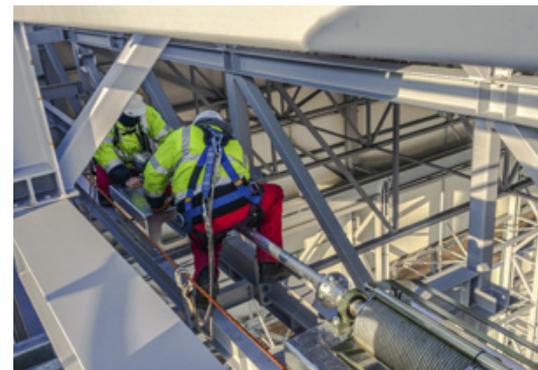
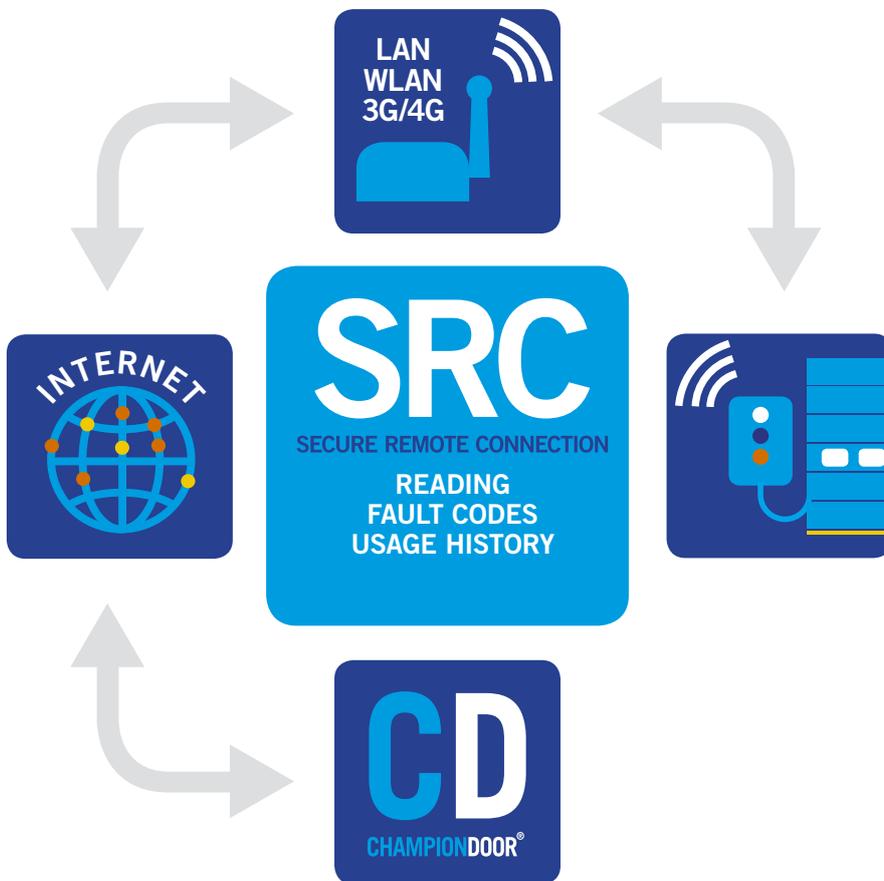
# Service concept

Champion Door offers a comprehensive service concept intended to make the acquisition and use of doors as easy as possible, all the way from the design stage to the maintenance service covering the entire service life.

We offer our customers full support service starting from the design stage – for example, you may download ready-made BIM objects from our website to support architectural design. We also make accurate strength calculations and customised plans on a door and project specific basis.

We can ensure the performance of our products by signing a maintenance contract with the customer and making the regular maintenance visits included in it. As part of the maintenance contract, we offer the unique **SRC** (Secure Remote Connection) **service**, in which remote control via a secure Internet connection enables door-specific programming with the functions desired by the customer, regardless of the distance. It also helps solve any problems with the door immediately – regardless of the door's location and even without a maintenance visit. With the SRC service, you also get access to comprehensive information on the door's entire usage history.

*The SRC service is a comprehensive, remotely managed maintenance service that is always tailored to the customer's wishes.*



**CHAMPION DOOR RANGE:** All Champion Door products are also available with ATEX certification.

- NK4 Warm ..... 2-ply thermally insulated door for large doorways, no size limits for custom-designed doors
- NK2 Double ..... 2-ply door for large doorways, no size limits for custom-designed doors
- NK4N Warm ..... 2-ply thermally insulated door for craneways
- NK2N Double ..... 2-ply door for craneways
- NK4NT Warm ..... 2-ply thermally insulated door for T-shaped craneways
- NK2NT Double ..... 2-ply door for T-shaped craneways
- NK4L Warm Lite ..... 2-ply thermally insulated door for doorways less than 8 m wide
- NK2L Double Lite ..... 2-ply door for doorways less than 8 m wide
- NK1 Single ..... 1-ply fold-up door
- NK3 Fast ..... 1-ply extra-fast roll-up door

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**TECHNICAL SPECIFICATIONS AND ACCESSORIES** (2-ply fabric fold-up doors)

- Door thickness ..... depending on the door size
- Number of plies ..... 2
- Thermal insulation ..... NK4 Warm with standard insulation, U-value 0.71 W/(m<sup>2</sup>•K), even 0.57 W/(m<sup>2</sup>•K) with additional insulation
- Wind load resistance ..... 1 kN/m<sup>2</sup> ..... (s)  
unlimited ..... (o)
- Maximum door size ..... no size limit
- Control system ..... electronic and programmable
- Control ..... 3-button control ..... (s)  
impulse control ..... (o)  
radio control ..... (o)  
pull switch control ..... (o)  
radar control ..... (o)  
induction loop control ..... (o)
- Safety equipment ..... fall arrester ..... (s)  
impact sensor at the bottom edge ..... (o)  
wind locking ..... (o)  
photocell ..... (o)  
laser light curtain ..... (o)
- Accessories ..... windows ..... (o)  
additional thermal insulation ..... (o)  
soundproofing ..... (o)  
traffic lights ..... (o)  
anti-burglar fabric ..... (o)  
hydraulic emergency opening ..... (o)  
touch screen control ..... (o)  
remote door control SRC ..... (o)

(s) = standard (o)= optional

# CHAMPIONDOOR®

## **Champion Door Oy**

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