



lindab | we simplify construction



# Lindab **Industrial Doors**

Unique panel solutions packed with advantages



We are working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

## Lindab Industrial Doors

- Emit 50% less CO<sub>2</sub> during production compared with doors that use polyurethane foam
- Contain 98% recyclable components
- Are manufactured using green energy in Denmark
- Emit 50% less waste gas in the event of fire compared with other doors
- Have an EPD (Environmental Product Declaration)
- Incur no additional environmental impact after disposal

## A product that measures up!

We are happy to have our doors measured, tested and compared with other products. The core material used in Industrial Doors from Lindab possesses exceptional and completely unique characteristics – with advantages all round. And we have the proof.

Lindab has drawn up an EPD, an Environmental Product Declaration, to make clear to property developers and contractors our adherence to sustainable construction principles including, among others, DGNB and BREEAM. Minimal environmental impact is assured, from cradle to grave facility. Production is ISO 14001-certified and takes place in Denmark. Since 1995, Lindab has been manufacturing here using polystyrene, the core element of doors with the lowest environmental impact on the market. Lindab doors are suited to construction projects that focus on optimal resource consumption and respect for the environment.

A focus  
on environ-  
ment and  
sustainability



### Water

Lindab panels take up 84% less water than other types of panels. This means that water take-up is reduced from 3% to 0.5% and that the panel remains stable throughout the entire lifetime of the door.



### Fire

In the event of a fire in the building, a polystyrene core material will not give added energy to the fire, but will simply melt down to water. Unlike polyurethane foam, it will not release lethal hydrogen cyanide gases. In a fire, polyurethane foam releases gases that are more than twice the toxicity of polystyrene\*.



### Adhesive

In Lindab's unique manufacturing procedure, steel plates are process-bonded onto the solid polystyrene core material and the amount of adhesive is monitored visually. The result is a strong panel with no risk of delamination or air pockets.



### U-Value

The environmentally-friendly sections with high insulation keep the warmth in and the cold out, which has the advantage of reducing heating bills. The panels are 46 mm thick with a core of extruded polystyrene and thermal bridge separation in the panel's centre line, which gives a U-value of 0.95 W/m<sup>2</sup>K on the door leaf.

\*The Danish Institute of Fire and Security Technology (DBI) has tested the toxicity of the core material in accordance with the relevant standards. Lindab's core material has emissions of 0.42 CITg, whereas other core materials emit 0.85 CITg.

## Product features

Lindab's industrial doors have high insulation performance throughout the door's entire lifetime. They act as a fire retardant and do not release toxic smoke. Furthermore, water take-up is reduced by up to 84% compared with other core materials,

and the solid core provides a strong panel without the risk of delamination. Lindab doors are your guarantee for a safe, long-lasting, sustainable and low-environmental impact solution.



## Doors that keep in the warmth

If your workshop or warehouse temperature fluctuates between the Arctic and the Tropics, it is most likely because the doors are not insulated or closing as intended. Not only does this have a big effect on comfort, it is also expensive when the heating bill arrives.

Lindab's door panels keep heat in and the cold out, with an insulation level (U-value) of 0.6 W/m<sup>2</sup> K. Panels and seals can withstand high winds; they also protect against draughts, which will have a beneficial effect on your energy consumption.

The exclusive panel section, Fullvision, has no vertical mullions and has an architecturally attractive appearance. Fullvision also has a considerably better insulation value than traditional panorama pane sections.

Can be supplied with two different types of glass:

- SAN 2-layer without glass spacers
- SAN 3-layer with glass spacers

# Fullvision

## Design comes into it, too

It's one thing for the doors to work and match your needs: it's quite another to want them to look good as well. We can help you with design considerations, ensuring that doors will come to represent the finishing touch to your building facades. And as to colour, you can choose almost anything you want.



Lindab Industrial Doors can run on a range of different rail systems, taking space, load and the type of building construction into account.

The high quality rail systems have a superior finish, without any sharp edges.

The rail systems use 'Smart Connection' technology, which makes installation quick and efficient.

They can also be supplied with thermal bridge separation between the frame and building, which will help to improve the total U-value of the door.

## Installation-friendly rail system

## Strong construction

The core of extruded polystyrene makes Lindab Industrial Doors 40% stronger than doors with polyurethane cores. The polystyrene core is water-repellent, which makes the doors frost-proof. Adhesion between the core and the steel/alu plates is twice as strong as before, which increases the door's durability.



## Good Thinking

At **Lindab**, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

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