



Door Solutions

Beautiful, efficient and affordable solutions



**QUALITY
DOORS** | frigoríficas · rápidas · interior
cold rooms · rapid · indoor
frigorifiques · rapides · intérieur
kühlraum · schnellauf · betriebsraum

Thermo sectional door



45 mm panel thickness!

When energy is the determining factor

The Thermo sectional door is made up of 45 mm thick steel sandwich panels. They have excellent thermal insulation. The Thermo sectional door, therefore, offers a good solution for heated warehouse and storage areas. The panels can be provided with different windows. Problem free combinations with Lux glazed panels can also be created. An integrated wicket door is also an option.

Features

- The insulation coefficient $k = 1.14 \text{ W/m}^2\text{K}$ (for a 4000 x 4000 mm door)
- Noise insulation $R = 24 \text{ dB}$
- Panel heights of 625 and 500 mm with horizontal ribs every 125 mm, supplied in smooth or stucco profiles
- Core made of polyurethane foam, free from CFCs
- Exterior side made of 0.4 mm thick steel plate finished with Galfan® ZA185
- Draught excluders in-between the panels made of UV- and weather resistant EPDM
- Exterior side with 25 μ polyester coating in RAL 9002 as standard
- Interior side with 10 μ polyester coating in RAL 9002 as standard.



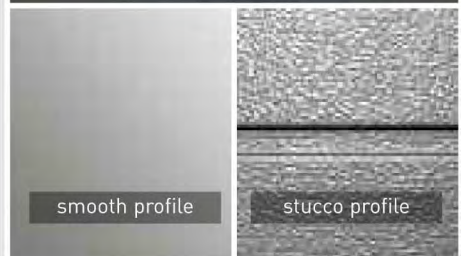
Oval window



Square window



Port-hole



smooth profile

stucco profile

Colour



Colour can provide a corporate contribution to your company. Coloured doors are the best proof of this. You can choose from 8 standard colours and approx. 200 RAL colours.

Colour as required

The Lux panels are supplied as standard as anodised panels or sprayed in RAL 9002. They can, however, also be sprayed in nearly every RAL colour. The anodised wicket door sections can also be sprayed in the colour of the door. The aluminium glazing beads on the interior side are, however, never sprayed.





Standard colours



Nearly all RAL colours can be supplied

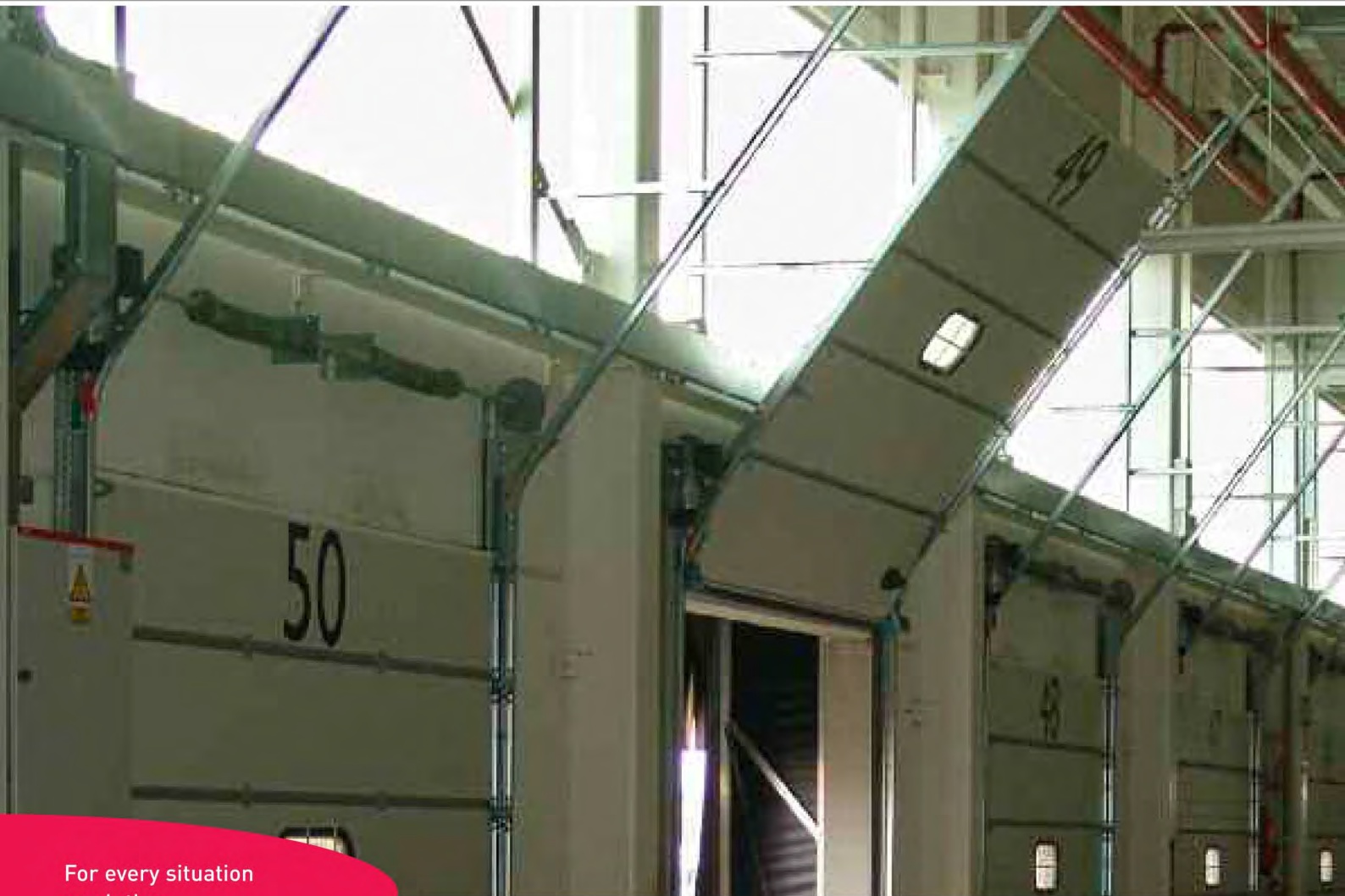


Tip!

Avoid dark colours in doors that will be fully exposed to sunlight. Dark colours absorb heat more easily. The panels of wider doors may twist due to the large temperature difference between inside and outside. Have our technical specialists assist you with information.



Inside view of a door in the RAL 5010 standard colour



For every situation
a solution

Once you have selected a door with the right features to achieve the correct appearance it is, of course, important that it can also be installed. The available interior space and possible obstacles such as pipe work, cable trays, wiring or crane tracks may make this difficult.

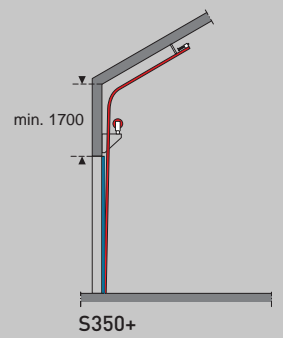
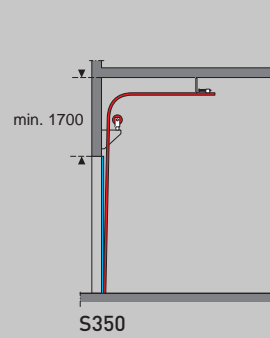
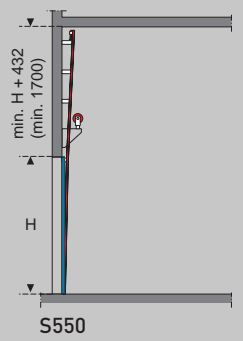
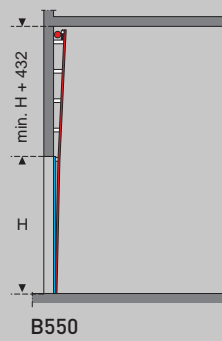
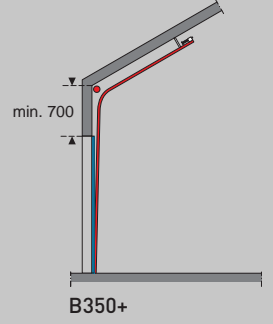
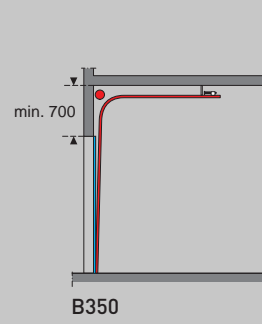
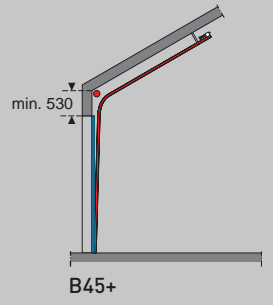
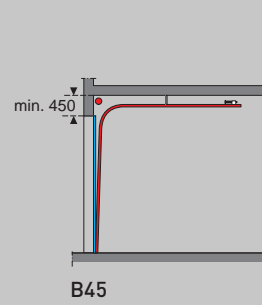
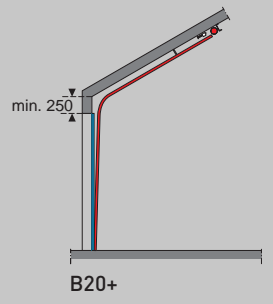
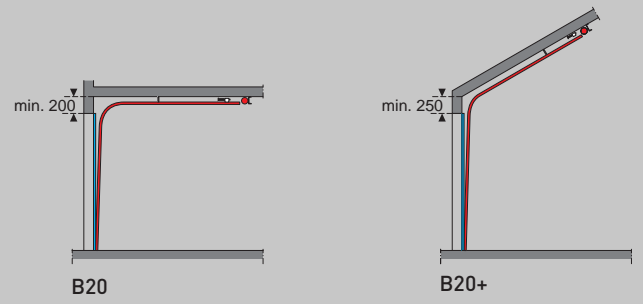
An ample range of rail systems

The available space for the installation of an industrial door can sometimes be limited due to there being limited available headroom, insufficient installation depth, pipework or wiring that may be present, ventilation and heating channels, roof trusses or crane tracks.

You can select from a very large number of rail systems at which a suitable solution can be found for nearly every situation.



Installation and maintenance become very easy with the low level spring beam because the system is installed immediately above the clearance opening.



Wicket door with low threshold



The strongest wicket door threshold

Until recently, integrated wicket doors were only used by people; hand and pallet trucks could never access the high threshold. This, however, is now possible with the new low-threshold wicket door and the sectional door can remain closed and, therefore, unnecessary heat loss can be avoided. The need for a separate wicket door in addition to the sectional door for hand and pallet trucks, therefore, no longer applies.



Continues to be active down to floor level



The leading safety beam will disappear completely in the sill when the door closes

Strong and wide

- The threshold is only 28 mm high and can withstand the hard wheels of pallet trucks. The threshold is strong and can easily bear the full weight of a person if the door is not fully closed!
- The wicket door has a wider passageway so that hand and pallet trucks can also pass without the goods getting caught behind the doorposts.
- The wicket door is supplied as standard with a mechanical door closer to ensure that the wicket door is automatically closed after use.



Deadmans control

The simplest control is what is commonly referred to as the deadman's control. The door will open after pressing the "Up" push button once. The "Down" push button must be constantly pressed to close the door until the door has completely closed. If your finger is removed at any time during closing, the door will stop.

Impulse control

The door will open fully after pressing the "Up" push button and the door will again close fully when the "Down" push button is pressed with regard to impulse control.

Automatic closing after an adjustable time delay setting

Automatic closing after an adjustable time delay setting is only possible in combination with a safety edge and safety beam protection in the doorway.

Expansions

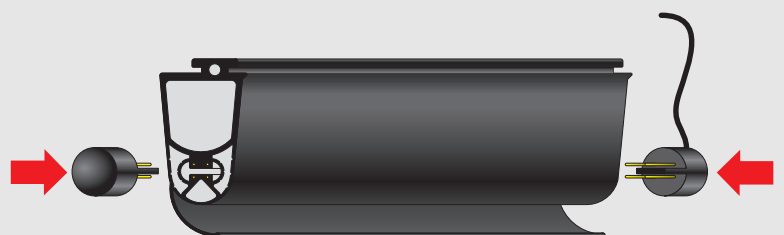
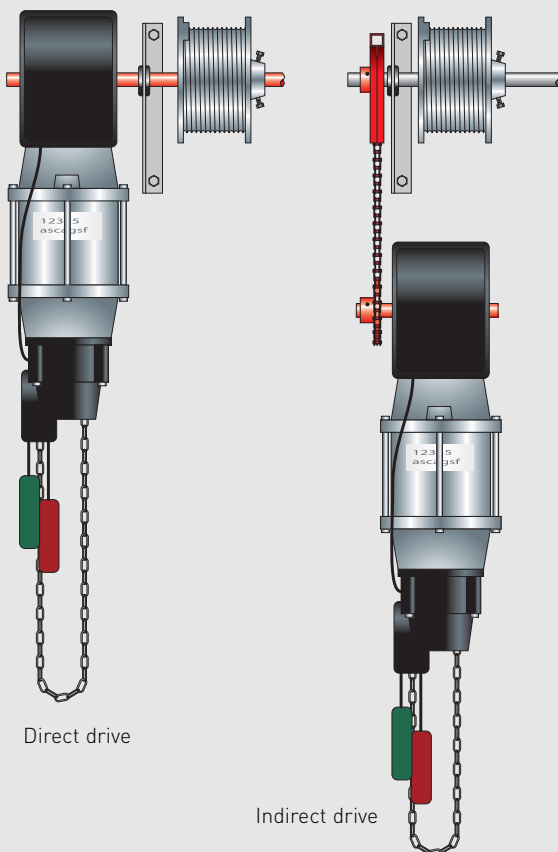
- Remote control (up to 99 channels)
- Traffic regulation
- Interlocking on both sides with another door(s)
- External operation components such as radar, key switch, induction loop, etc.

Fixing methods

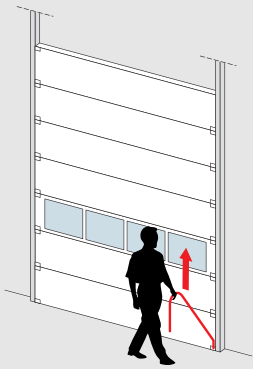
In principle, there are two fixing methods. Directly on the shaft or indirectly through chain transmission.

Safety edge

The closing side of the door is equipped with a self-testing safety edge that is insensitive to moisture and is protected against mechanical damage with regard to impulse control. The installation is extremely simple (push fit).

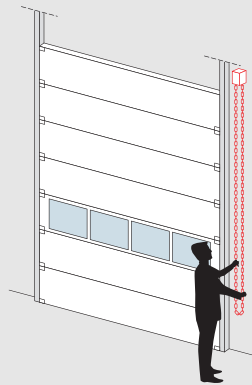


Operation



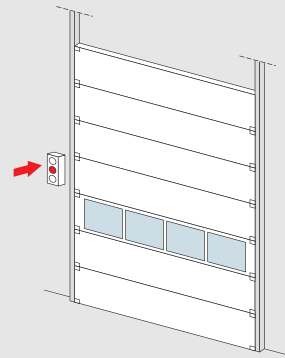
Manual operation

Sectional doors can be opened manually up to a specific dimension and weight by using a pull cord or manual chain hoist.



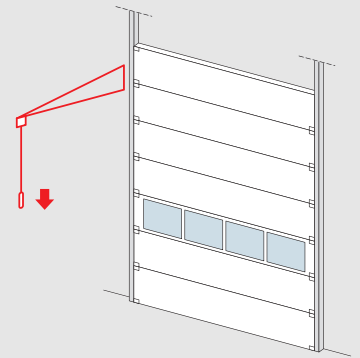
Chain hoist

The chain hoist is a manual operation that can also be used for larger doors.



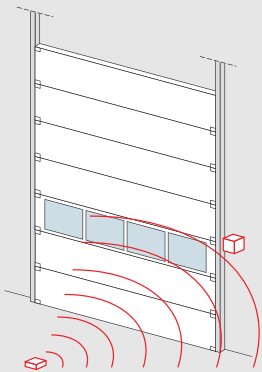
Push button

Push buttons are used predominantly for personnel traffic. In situations where the hands are not always free mushroom head push buttons are a solution.



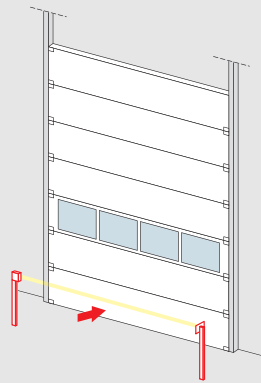
Pull switches

The pull switch is used mainly for forklift truck traffic so that the driver can operate the switch without getting out of the vehicle.



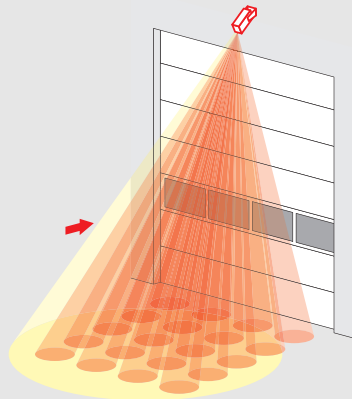
Radar

Only vehicles or personnel with a transmitter can open or shut the door. The transmitters may have one or more channels.



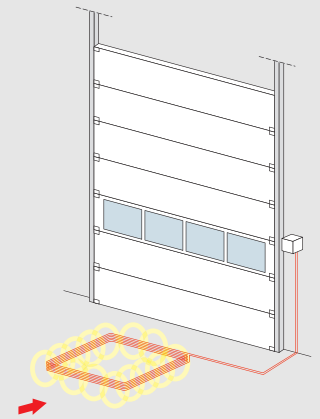
Photocell

It is mainly used for monitoring the threshold of the door way. As long as the photocell beam is broken the door will not close. There are designs with reflector and designs with transmitter and receiver.



Radar

The standard radar only detects moving objects (operation). A model can be supplied as an option with active infrared that also detects stationary objects (safety).



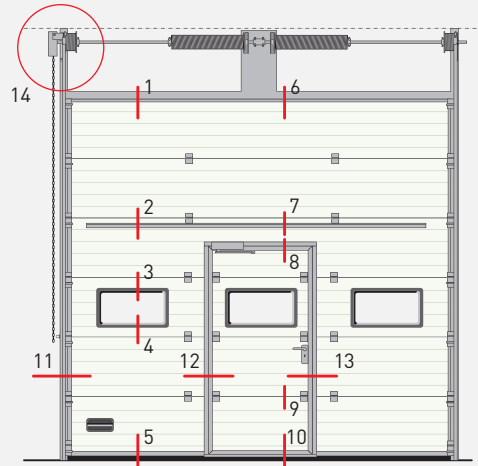
Induction loop

An induction loop creates a magnetic field. A metal object within this field will be detected and it is, therefore, suitable as a control or additional protection with regard to forklift truck manoeuvres.

THERMO in detail

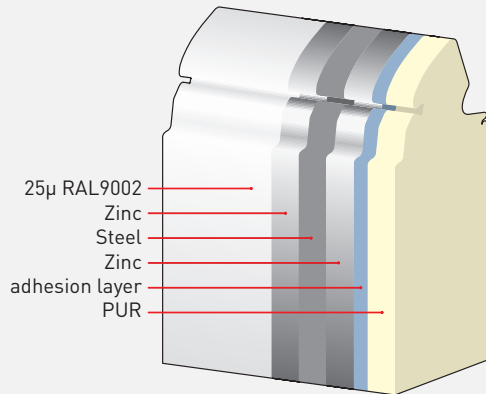
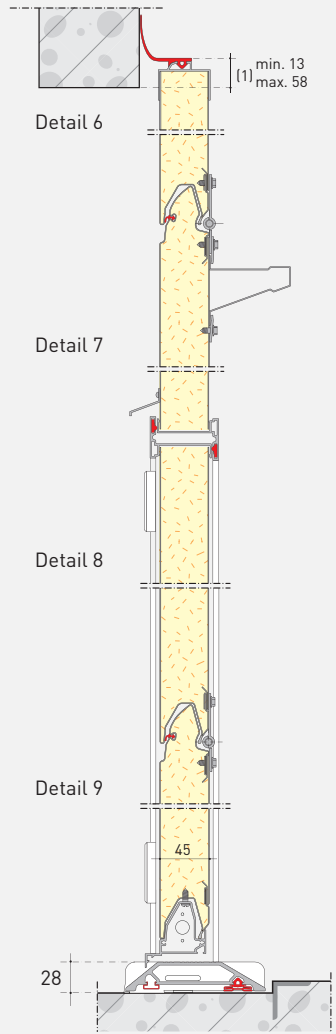
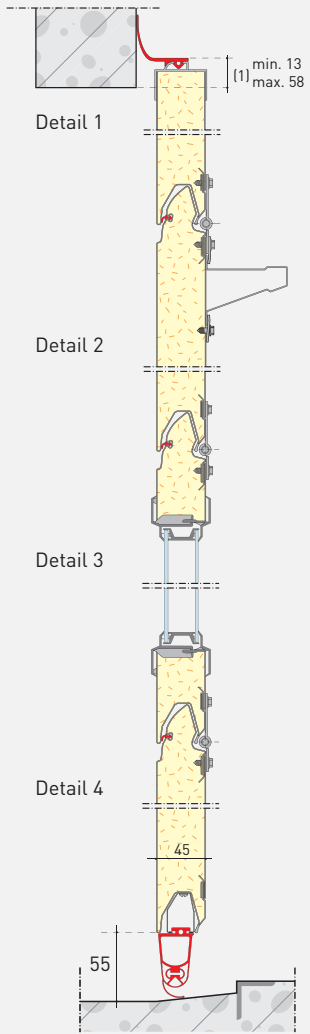


THERMO outside view



THERMO inside view

For detail 14 see pages 22-23

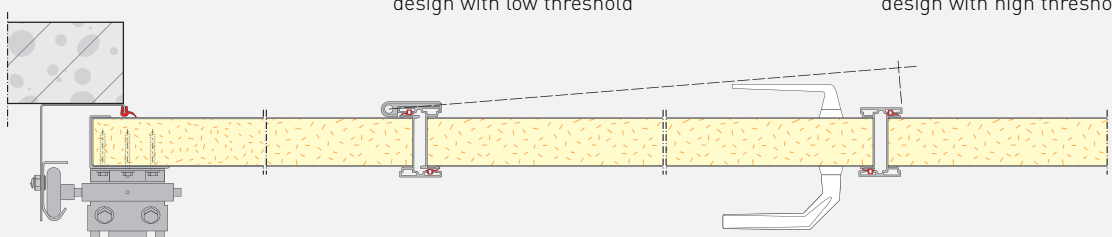


Detail 5

Detail 10b design with low threshold

Detail 10a design with high threshold

bottom seal with manually operated doors



Detail 11

Detail 12

Detail 13



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