



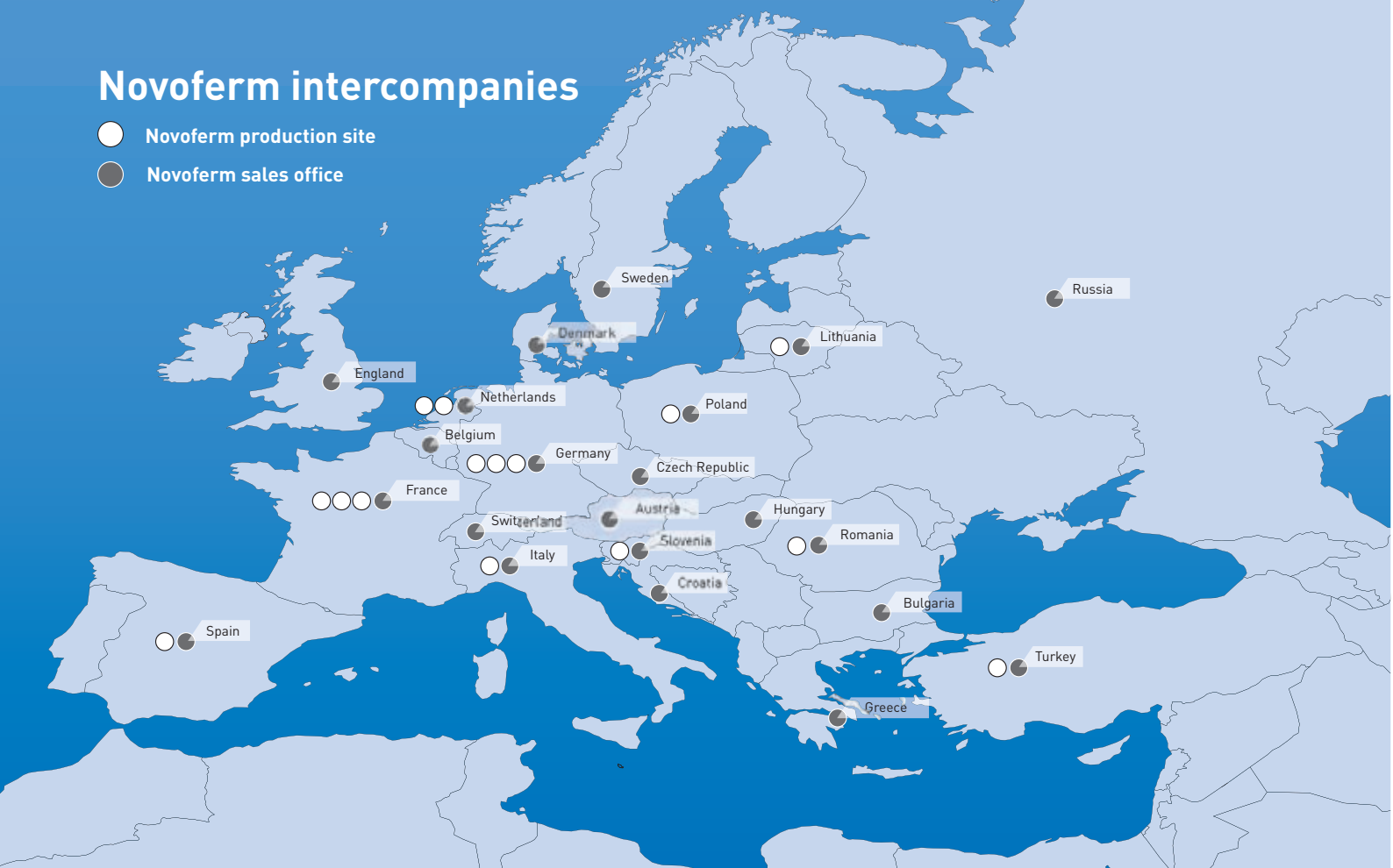
Novo Speed Solutions

Fast logistic solutions



Novoform intercompanies

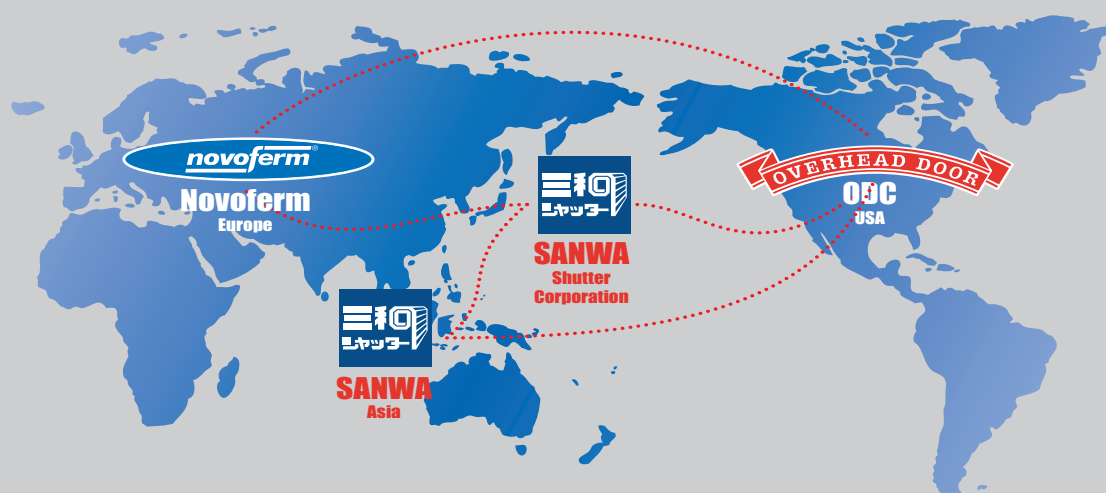
- Novoform production site
- Novoform sales office



Novoform for your access to industrial buildings

Novoform has already been a specialist in many forms of entrances and exits for industrial buildings and homes for more than thirty years. A wide choice of various designs, finishes, controls and installation options means you are always supplied with a custom-made solution. We take responsibility for the whole process from advice to development, production, assembly and assistance with construction if required. Obviously all aspects such as the associated standards and legislation are closely monitored—something that saves you a great amount of work.

Besides industrial doors, draught-excluding and fire-resistant doors you can approach Novoform for products to enable the loading and unloading of goods at a building. As a part of the Sanwa Shutter Corporation, a leading producer of doors, garage doors and other products for equipping buildings worldwide, Novoform also guarantees you the option of the latest applications. And always with the highest quality, reliability, comfort and design with a minimum of costs.



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www.novoferm.com
www.novospeedsolutions.com

Symbols used

		opening and closing speed
		thickness and weight of the curtain
		closing side with hard edge or flex edge
		automatically or manually resetting
		inside or outside door
		power 400V or 230V
		curtain with or without intermediate joint
		control with soft start and soft stop, or control with frequency control
		safety photocell, active bottom beam or light curtain
		emergency opening with starting handle, curtain unlocking or emergency power supply battery

The symbols used with the various types of doors depend on the design and can be subject to change.

Why choose a Novoferm automatically closing rapid

Novoferm takes account of the environment

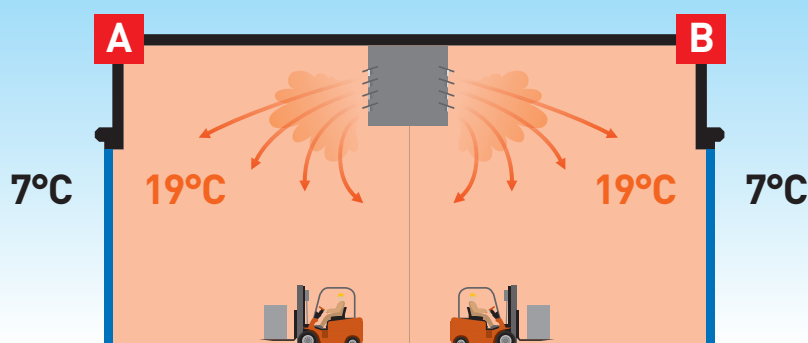
In 2009 Novoferm signed the 'Green Solutions' Group Charter. This concerns a package of concrete measures to reduce CO₂-emissions with the production, delivery, assembly and maintenance of industrial doors.



Energy loss

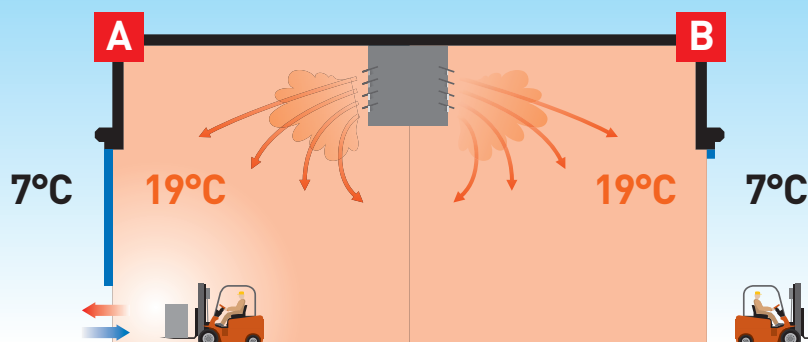
The figures below show that with a conventional outside door (A) air flows occur that cause energy losses. With a high tech rapid roll door from Novoferm (B) the door is already closed before these air flows can originate.

0 sec



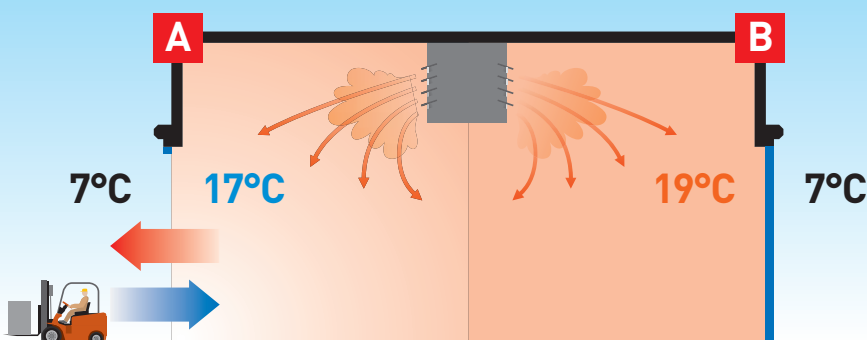
Production companies have an inside temperature of approx. 19°C.

4 sec



A conventional door (A) opens slowly
The rapid roll door (B) is open and transport can pass through.

15 sec



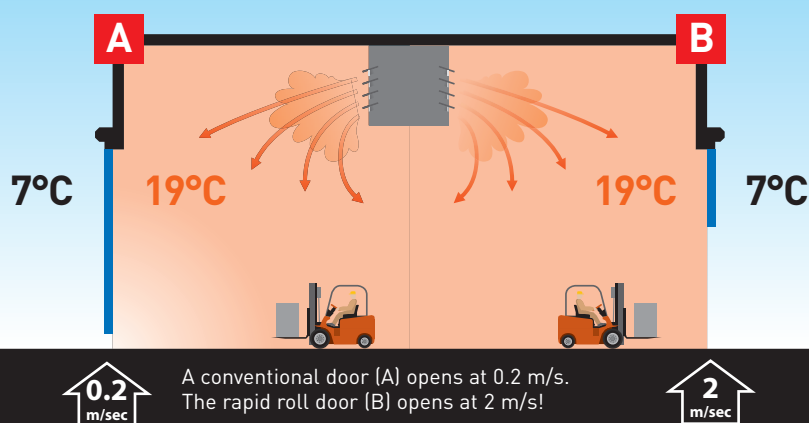
An open door (A) causes much energy loss



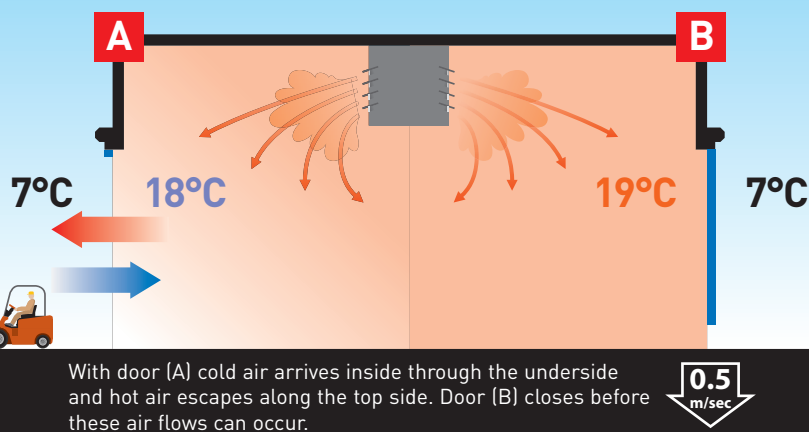
roll door?

This ensures a constant inside temperature, saves you energy losses, guarantees a pleasant working climate and accordingly unnecessary absence due to illness of your personnel.

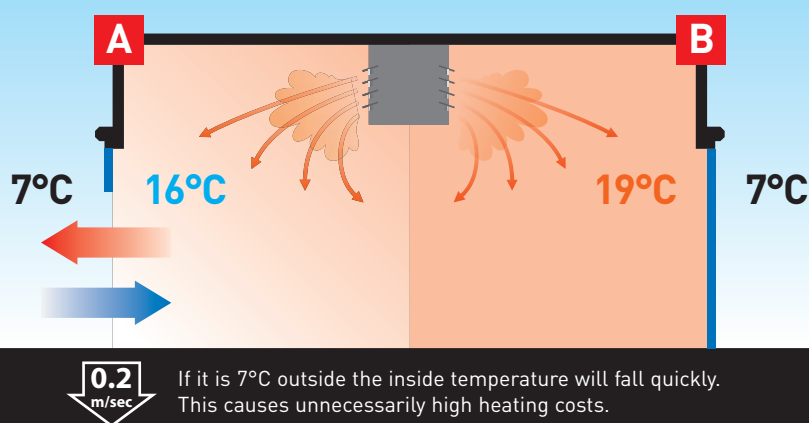
2^{sec}



12^{sec}



20^{sec}



Safe doors

All automatic doors are covered by European Directive DIN EN 13241-1.

Novoform develops and produces its new products strictly in line with these standards. You are accordingly assured safe operation with daily use, assembly and maintenance.



Applications

The extensive range of draught-excluding solutions from Novoferm is used in just about all market sectors. The door version is therefore greatly dependent on its particular use and the conditions in which it is to operate. Our standard range offers solutions for most situations. Should you have special requirements we can supply custom-made solutions in consultation with you.



Light and heavy industry

Light and heavy industry require a wide variety of draught-excluding solutions. With Novoferm's extensive range of doors a fitting solution can be offered for practically any situation. These are products that are simple to assemble, continue operating trouble-free and barely require any maintenance. With our products you are therefore assured of operating reliability, continuity and safety.



Foodstuffs

Novoferm is fully at home in the food industry. In Europe we have already been working with major names in the field of food production and processing for years. We also have wide experience with cold store constructors. We have learned that this sector involves more than just materials such as stainless steel and strict requirements with regard to hygiene, there is also usually a demand for custom-made solutions. This usually concerns cost efficiency and the continuity of production processes.



Pharmacy and chemistry

Pharmacy and chemistry make high demands with respect to hygiene, sealing, operating reliability, fitting and a trouble-free aftersales service. Novoferm offers custom-made solutions for these sectors, while investing a lot of time and money in courses and training for the company's own production staff and technicians. Our own technicians and the companies assembling for us are SCC certified. They then satisfy all requirements to be able and allowed to work in strictly regulated operating conditions.

Other applications

- ✓ car wash
- ✓ public service
- ✓ application doors
- ✓ airfield terminals
- ✓ mega doors
- ✓ specials



Automotive

The typical car factory produces an average of around a thousand cars a day. This requires an enormous goods flow where on-time delivery is of crucial importance. This is also why high requirements are set for the reliability of the doors in this logistical flow. Novoferm offers products that can and remain functioning trouble-free in the required conditions. Novoferm also has a 24-hour service to help you as quickly as possible should something nevertheless go wrong.



Logistics

When products are ready they must arrive at the end customer as quickly and efficiently as possible. Hence European companies often like to work with large logistics distribution centres for storage and transfer. Doors involved in these logistic flows must often open and close many times a day. A top product alone is, however, not enough! Intensive use can also cause a top product to occasionally fail. Preventive maintenance can keep this to a minimum. Novoferm therefore offers various options for maintenance and service contracts.



Retail

In modern supermarket the shelves are usually well stocked with an extensive range of products. Intensive traffic between the store and shop space is required to keep the shelves well filled. A rapid roll door is therefore often chosen as a partition door between shop space and store. This is fast, opens and closes automatically, is safe for the user, takes up barely any space and is particularly quiet. Novoferm develops custom-made doors for various retailers, while in the meantime acquiring most leading chain stores in Europe as its customers.

Which product is suitable for my situation?



Topline



Novo Speed Flex

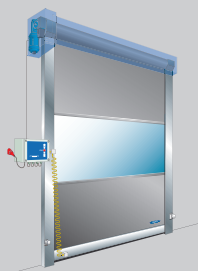
- 20 m² max.
- max. 5 Bft.
- 2 m/s opening
- frequency control as standard.



Novo

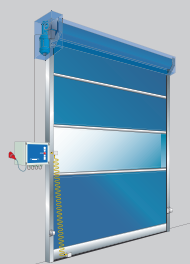
- 25 m² max.
- max. 5 Bft.
- 3 m/s opening
- frequency control as standard.

Advanced



Novo Speed Heavy Indoor

- 36 m² max.
- max. 5 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *



Novo Speed Basic

- 20 m² max.
- max. 5 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *



Novo

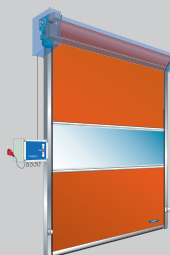
- 20 m² max.
- max. 5 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *

Basic +



Novo Speed Economic

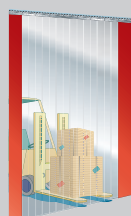
- 9 m² max.
- max. 3 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *



Novo

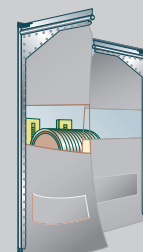
- 9 m² max.
- max. 3 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *

Basic



Strip curtains

- max. height is 6 m
- 2 to 4 mm thick strips
- transparent strips
- various overlapping
- orange end strips.



Draught

- 25 m² max.
- 7 m max.
- 4 m max.
- automatic opening



Speed Twin
 36 m² max.
 max. 5 Bft.
 2 m/s opening
 frequency control
 as standard.



Novo Speed Alu

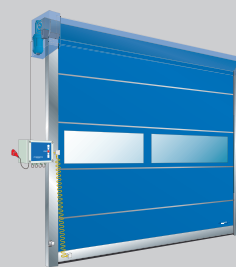
- 36 m² max.
- max. 8 Bft.
- 2 m/s opening
- frequency control as standard.

Speed Basic Food
 36 m² max.
 max. 5 Bft.
 2 m/s opening
 5 m/s with
 frequency control. *



Novo Speed Heavy Outdoor

- 36 m² max.
- max. 8 Bft.
- 1 m/s opening
- 1.5 m/s with frequency control. *



Specials

- 64 m² max.
- max. 8 Bft.
- 0.5 to 1 m/s opening
- frequency control as standard
- specially custom-made.

Speed Economic Food
 36 m² max.
 max. 3 Bft.
 2 m/s opening
 5 m/s with
 frequency control. *



Novo Speed Alu A

- 25 m² max.
- max. 8 Bft.
- 1 m/s opening
- frequency control as standard.

Light excluder doors
 36 m² max.
 10 mm thick curtain
 colours
 automatic opening
 possible. *



Do not hesitate to consult our technical staff for information tailored to your particular needs free of any obligation.

Interior applications



The new Novo Speed Flex is a high tech performance product



The Novo Speed Flex is the latest development from Novoferm based on the latest technology and our many years of experience with fast action roller doors in industry. As the standard design this door meets just about all the requirements of a modern, dynamic company:

- an opening speed of 2 metres a second
- 100% self-resetting in both driving directions
- small installation size with use of a built-in drive unit
- a compact design with side guides of die-cast aluminium and standard guard
- operation with frequency control with the following advantages:
 - a very fast opening speed
 - smooth opening and closing
 - so very slight mechanical loads
 - the quietest rapid roll door ever!
 - 230V power with CEE plug
 - emergency operation by UPS* (optional) connectable as standard.

** UPS = Uninterruptable Power Supply*

Ready for use again in no time at all...

Busy times

Nowadays everything has to happen quickly and efficiently. Unfortunately fast action roller doors also suffer collisions in these busy times. You are then happy if no damage has been caused.

The Novo Speed Flex offers more!

- the door is self-resetting in both driving directions
- the ingenious 're-feed' system ensures minimal work interruption!



NOVO SPEED FLEX^{HARD EDGE}

standard viewing section



Specifications

max. surface area (W x H)	20 m ²
max. width (W)	4,250 mm
max. height (H)	5,000 mm
opening speed	2 m/s
closing speed	0.5 m/s
curtain weight	1,400 g/m ²
curtain thickness	1.2 mm

- self-supporting construction
- 100% self-resetting in both directions
- up to 12 m² photocell protection is standard with a light curtain as option
- from 12 m² a light curtain is standard
- mechanical emergency unlocking is an option.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue), RAL7038 (grey), RAL9003 (white) and RAL9004 (black).

1023

2009

3020

5002

7038

9003

9004

Attractive, fast and silent...

Universally useable

The Novo Speed Flex is an interior door for use in practically any sector of industry. The door is fast and conspicuously silent in use. With the use of an industrial built-in drive unit the required side space is kept to a minimum. The advanced control device has frequency control as standard offering many functions and connection possibilities.

Monitored opening

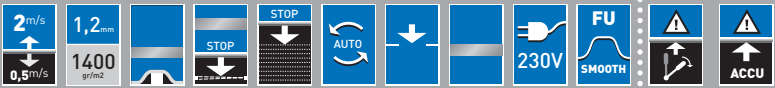
Up to 12 m² the door is provided as standard with a safety photocell approx. 250 mm from the floor in the opening. With an opened door and broken beam the door will not close.

From 12 m² an active light curtain is supplied to a maximum height of 2500 mm. Both moving and stationary objects are detected in the opening with an opened door and the door will not close. The light curtain is optionally available for doors smaller than 12 m².



NOVO SPEED FLEX FLEX EDGE

standard viewing section



Specifications

max. surface area (W x H).....	17.5 m²
max. width (W).....	3,500 mm
max. height (H).....	5,000 mm
opening speed.....	2 m/s
opening speed.....	0.5 m/s
curtain weight.....	1,400 g/m²
curtain thickness.....	1.2 mm

- self-supporting construction
- 100% self-resetting in both directions
- up to 12 m² photocell protection is standard with a light curtain as option
- from 12 m² a light curtain is standard
- mechanical emergency unlocking is an option.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue), RAL7038 (grey), RAL9003 (white) and RAL9004 (black).

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If goods are fragile...

Soft flexible bottom beam

In relatively small passageways the likelihood of contact between bottom beam and goods cannot be ruled out and a hard bottom beam may cause damage. The 'flex edge' is flexible and soft and accordingly gives a feeling of safety. Persons or goods 'accidentally' touched by the 'flex edge' will suffer little or no damage.

The opening of the door is monitored in the same way as with the door with 'hard edge'.



NOVO SPEED ECONOMIC

standard viewing section



Specifications

max. surface area (W x H)	max. 9 m ²
max. width (W)	3,000 mm
max. height (H)	3,500 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	650 gr/m ²
curtain thickness	0.7 mm

- wind resistant to 3 Beaufort
- safety photocell in the door opening
- bottom beam with Multilene end pieces.

Curtain colours

RAL1003 (yellow), RAL2009 (orange), RAL3020 (red), RAL5005 (blue), RAL6026 (green), RAL7038 (grey), RAL8017 (brown), RAL9003 (white) and RAL9004 (black).

1003 2009 3020 5005 6026 7038 8017 9003 9004

Costs are indicative...

The ideal 'entry model'

The Novo Speed Economic is a good solution for smaller openings to 9 m² and normal use. Ideal for passageways for persons and light goods. This door has a very wide area of application with its low price. Special features include:

- curtain made of horizontal sections of polyester-reinforced plastic and a transparent viewing section
- the sections are joined by aluminium reinforcing parts with special formed profile so a section can easily and quickly be replaced
- aluminium bottom beam with rubber sealing profile
- steel U-shaped lateral guide with brush seals.



NOVO SPEED ECONOMIC food

standard

viewing section



Specifications

max. surface area (W x H)	max. 9 m ²
max. width (W)	3,000 mm
max. height (H)	3,500 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	650 gr/m ²
curtain thickness	approx. 0.7 mm

- wind resistant to 3 Beaufort
- safety photocell in the door opening
- bottom beam with Multilene end pieces.

Curtain colours

RAL1003 (yellow), RAL2009 (orange), RAL3020 (red), RAL5005 (blue), RAL6026 (green), RAL7038 (grey), RAL8017 (brown), RAL9003 (white) and RAL9004 (black).

1003 2009 3020 5005 6026 7038 8017 9003 9004

When hygiene is important...

Strict requirements

In the food industry there are often extremely high requirements as regards hygiene and safety. A Food design of the Novo Speed Economic is available for use in such conditions. Special features include:

- All construction parts that may come into contact with water are either of stainless steel (304), a synthetic material or have been specially processed
- the curtain reinforcers are integrated in the curtain
- a synthetic protective guard or stainless steel (304) design is optionally available
- draught-excluding rubbers are used instead of brush seals
- when the door has to be cleaned with water each day the drive and control unit can be supplied in IP65.



NOVO SPEED BASIC

standard viewing section



Specifications

max. surface area (W x H)	20 m²
max. width (W)	4,000 mm
max. height (H)	5,000 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	1,400 gr/m²
curtain thickness	1.2 mm

- wind resistant to 5 Beaufort
- optionally available with 'break-away' system
- self-testing bottom safety edge.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue), RAL7038 (grey), RAL9003 (white) and RAL9004 (black).

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A reliable entry model...

A good basis for intensive use

The Novo Speed Basic is the basic fast action roller door model for intensive use. In comparison with the Economic all aspects of the door are of a heavier and stronger design to allow intensive use. Special features include:

- robust steel guide columns with brush seals for guiding the door plate
- the curtain is 1.2 mm thick
- standard viewing section
- the sections are connected to each other with aluminium reinforcing sections
- aluminium bottom beam with rubber sealing profile
- a bottom beam with unique 'break-away' system so the curtain can be reset without damage or special tools is optionally available.



NOVO SPEED BASIC food

standard viewing section



Specifications

max. surface area (W x H)	20 m²
max. width (W)	4,000 mm
max. height (H)	5,000 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	1,400 gr/m²
curtain thickness	1.2 mm

- wind resistant to 5 Beaufort
- optionally available with 'break-away' system
- self-testing bottom safety edge.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue), RAL7038 (grey), RAL9003 (white) and RAL9004 (black).

1023

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9004

Application in the food industry...

When hygiene is the priority

Just like the Economic the Novo Speed Basic is available in a Food design. This version is suitable for use in the food industry with the strictest requirements for hygiene and safety when producing and processing fresh foodstuffs. Special features include:

- all construction parts that may come into contact with water are either of stainless steel (304), a synthetic material or have been specially processed
- the curtain reinforcers are integrated in the curtain
- a synthetic protective guard or stainless steel (304) design is optionally available
- draught-excluding rubbers are used instead of brush seals
- when the door has to be cleaned with water each day the drive and control unit can be supplied in IP65.



NOVO SPEED HEAVY indoor

standard viewing section



Specifications

max. surface area (W x H)	36 m ²
max. width (W)	6,000 mm
max. height (H)	6,000 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	1,400 gr/m ²
curtain thickness	1.2 mm

- wind resistant to 5 Beaufort
- optionally available with 'break-away' system
- self-testing bottom safety edge.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue), RAL7038 (grey), RAL9003 (white) and RAL9004 (black).

1023

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9004

If it has to be able to take a knock...

The workhorse for larger openings

The Novo Speed Heavy Indoor has been specially developed for larger interior openings to 36 m². All construction parts and the curtain are supplied as a heavy-duty version. Overpressure and underpressure can cause considerable forces on the curtain. With the 1.2 mm thick curtain and aluminium reinforcing sections the door is resistant up to 5 (Beaufort) wind pressure. Special features include:

- extra heavy steel plating columns with brushes to guide the curtain
- a bottom beam with self-testing bottom safety edge and end pieces of cast aluminium as standard
- a bottom beam with unique 'break-away' system so the curtain can be reset without damage or special tools is optionally available.



NOVO SPEED TWIN

standard viewing section



Specifications

max. surface area (W x H)	25 m²
max. width (W)	5,000 mm
max. height (H)	5,000 mm
opening speed	3 m/s
closing speed	0.5 m/s
curtain weight	1,600 gr/m²
curtain thickness	1.5 mm

- wind resistant to 5 Beaufort
- control with frequency control as standard
- designed as standard with 'break-away' system
- lateral aluminium beams with rubber sealing profile and self-testing edge protection.

Curtain colours

RAL1023 (yellow), RAL2009 (orange), RAL3020 (red), RAL5002 (blue) and RAL7038 (grey).

1023

2009

3020

5002

7038

If the height must be available straight away...

Special solution for relatively tall and narrow transportation

Sideways opening has the big advantage that the whole passage height is immediately available. This door offers the perfect solution in situations where goods to be transported are proportionately tall and narrow.

The Novo Speed Twin also opens at a speed of no less than 3 metres a second. Collisions are therefore practically impossible. Should this nevertheless happen the unique 'break-away' system makes sure that damage is restricted to a minimum.

The door panel can be supplied with up to 70% of the surface in transparent plastic. The goods transporter then always has a clear view of the situation on the other side of the door.

With these unique properties the Novo Speed Twin is suitable for situations with very intensive goods transport.



Exterior applications



NOVO SPEED HEAVY outdoor

standard viewing section



Specifications

max. surface area (W x H)	36 m ²
max. width (W)	6,000 mm
max. height (H)	6,000 mm
opening speed	1 m/s
opening speed with frequency control	1.5 m/s
opening speed	1 m/s
opening speed with frequency control	0.5 m/s
curtain weight	3,000 gr/m ²
curtain thickness	3 mm

- wind resistant to 8 Beaufort
- optionally available with 'break-away' system
- self-testing bottom safety edge.

Curtain colours

RAL1021 (yellow), RAL2002 (orange), RAL6028 (green) and RAL7023 (grey).

1021

2002

5010

6028

7023

Solidity for an exterior opening...

Prevent unnecessarily energy loss

An exterior opening must stay open for the shortest possible time. A customary outside door is relatively slow to operate so causes considerable energy loss. In combination with a rapid roll door this loss can be kept to a minimum.

A customary door is opened in the morning before the rapid roll door ensures the sealing of the exterior opening. Fast opening and closing precludes air flows that cause this energy loss. At the end of the workday the exterior opening is closed again with the customary door.

The design of the Novo Speed Heavy Outdoor is obviously fully suitable for the extreme conditions in which this door must be able to operate.



NOVO SPEED ALU

standard

viewing section



Specifications

max. surface area (W x H)	36 m ²
max. width (W)	6,000 mm
max. height (H)	6,000 mm
opening speed	2 m/s
opening speed	0.5 m/s
slat height (operating)	75 mm
slat thickness	20 mm
slat wall thickness	2 mm
finish	anodised aluminium E6/EV1

- wind resistant to 8 Beaufort
- control with frequency control as standard
- standard door leaf balancing with springs
- guide columns with viewing doors
- a light curtain is optionally available.

Colours

The door leaf can be supplied in practically any RAL colour with a powder coating (optional).



The new generation of aluminium roller doors...

A fast 'all-in-one' outside door

The Novo Speed Alu is the pick of the crop where fast outside doors are concerned. The door is insulated, burglar-proof, and as distinct from traditional doors exceptionally fast. Combination with a rapid roll door is therefore no longer required. Just one door then offers all the properties required for fast logistics with a minimum of energy loss and work interruptions! Special features include:

- an opening speed of 2 metres a second
- the special slats keep the noise level on opening to a minimum in comparison with ordinary roller doors
- one or a number of viewing strips optionally available
- mechanical emergency unlocking available.



NOVO SPEED ALU A

standard viewing section



Specifications

max. surface area (W x H)	25 m ²
max. width (W)	5,000 mm
max. height (H)	5,000 mm
opening speed	1 m/s
closing speed	0.5 m/s
slat height (operating)	75 mm
slat thickness	20 mm
slat wall thickness	2 mm
finish	anodised aluminium E6/EV1

- wind resistant to 8 Beaufort
- control with frequency control as standard
- small installation dimensions
- U-shaped guide columns.

Colours

The door leaf can be supplied in practically any RAL colour with a powder coating (optional).

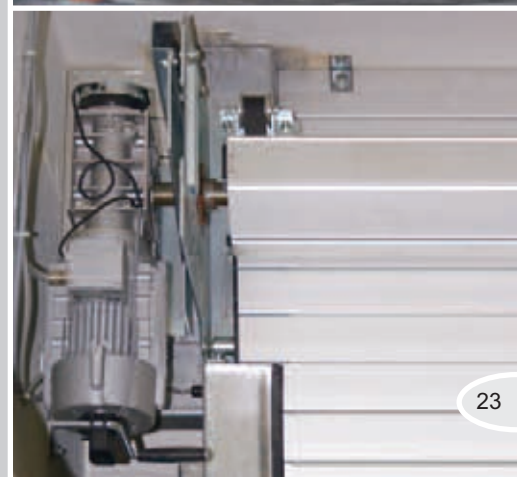


The advantageous aluminium rolling door...

Universally useable rolling door

If speed is not the decisive factor the Novo Speed Alu A is the ideal solution. With the same external properties as its larger brother the Novo Speed ALU and an opening speed of 1 metre a second this door is universally useable in interior and exterior openings. Without door leaf balancing the guides and drive can be made comparatively lighter so the Novo Speed ALU A has smaller installation dimensions. This simplified design makes the door no less reliable but considerably less expensive. Special features include:

- an opening speed of 1 metres a second
- the exterior of the door panel is the same as the ALU
- one or a number of viewing strips optionally available.



Other solutions



STRIP CURTAINS

Easy Clip



The fast and inexpensive closing option

Are you looking for quick to install draught-exclusion for a passageway that is not often used? A strip curtain can offer a good solution.

Depending on the size of the opening and the nature of the transport a certain strip width is selected with more or less overlapping. This type of draught exclusion has already been in use for decades with its unmistakable properties:

- flexible strips with good transparency
- orange end strips
- good noise reduction to 30 dB
- also in a freeze resistant design to -30°C
- simple suspension system
- fast and simple assembly
- strips simple to replace.

DRAUGHT EXCLUDER DOORS



Old-fashioned reliability

A draught excluder door is an industrial manual interior door available in sizes up to 25 m². This door still being widely used is down to the following properties:

- flexible curtain in black, grey, transparent or combinations
- simple construction, tried and tested
- door closes mechanically with spring closing
- no drive unit or operation required
- always opens; also in emergency situations
- easy to maintain and simple to clean
- fast and simple assembly.

Custom-made solutions



SPECIALS

Novoferm, the specialist in custom-made solutions!

Automatic draught excluder doors

The automatic draught excluder door is one of the oldest industrial doors with a long record of service. In heavy industry it is mainly used as a partition between production spaces. The door owes its popularity to:

- the uncomplicated construction
- suitable for intensive use
- simple to automate with compressed air or an electric drive (230V)
- can be opened in both directions in the event of a failure
- collision-resistant with anti-block system.



Fast action folding doors

The fast action folding door, the former workhorse among industrial doors, is also still used in certain sectors of industry because of the following advantages:

- when opening the whole height is immediately available, a clear advantage with relatively narrow and tall goods transport
- the door is just about fully transparent so the transporter always has a clear view of the space on the other side of the door
- the pneumatic design opens at a speed of up to three metres a second
- the fast action folding door can be either pneumatically or electrically driven.



Speedroller special

For extremely large interior or exterior openings up to 64 m² we can supply a rapid roll door fully matched with your location, situation and intensity of use. The special properties of this door are:

- extra heavy-duty guide columns with viewing doors
- a tensioning system in the guide columns with which the curtain is kept taut to be able to withstand high wind pressure
- a large number of integrated curtain reinforcers
- one or a number of viewing sections with sealed windows
- frequency control.

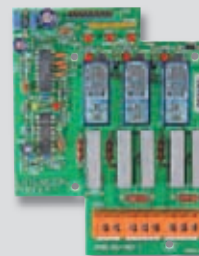


Special constructions

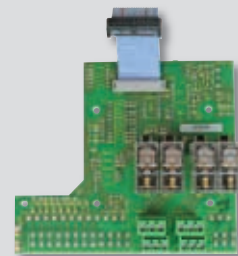
A special construction is generally required to fit a rapid roll door behind an (existing) industrial outside door. A custom-made construction can be supplied in consultation with our technical advisor. You then do not need to contract the adaptations out to a third party and you keep everything under one roof.



Controls



Type	SMD	SMD Large	Extension print SMD
Controls	- push-button - pull switch - radar - receiver - infrared detector	- push-button - pull switch - radar - receiver - infrared detector - 2-channel induction loop detector	
Function	Door control unit Novo Speed: - Economic - Heavy Indoor - Heavy Outdoor - Basic	Door control unit Novo Speed: - Economic - Heavy Indoor - Heavy Outdoor	- printed-circuit board with 3 extra relays for extensions
Connection for pulse generator	no	no	
Extension possibilities	Two-way blocking for lock with operating device: - flashing light - traffic lights red/green - door position registration - acoustic signal when closing	Two-way blocking for lock with operating device: - flashing light - traffic lights red/green - door position registration - acoustic signal when closing	not applicable
Optional extras	Extension with: - 3 potential-free relays - receiver, type Keeloq (in-built)	Extension printed-circuit board with: - 3 potential-free relays - receiver Keeloq (in-built) - 2-channel induction loop detector - extra built-in components on TS35 rail	not applicable
Cabling	- CC-flex 7 x 1.5 mm² - CC-flex 7 x 0.75 mm² - CEE plug 5-pole - 400 VAC, 16A	- CC-flex 7 x 1.5 mm² - CC-flex 7 x 0.75 mm² - CEE plug 5-pole - 400 VAC, 16A	
Serial	- no extra relays	- no extra relays - fitting space with TS 35 rail for building in an extra timer, or... - relay with relay foot, or... - extra terminals	
Version	- synthetic housing with foil switches U-S-D - power 3 x 400 VAC T10A - cabinet IP65	- synthetic housing with foil switches U-S-D - power 3 x 400 VAC T10A - cabinet IP65	



FUS-1-C 0.75 kW	FUE-2-C 1.5 kW	FU3E-C 4 kW	Extension printed circuit board RFUxE-C
- push-button - pull switch - radar - receiver (Keeloq) - infrared detector - 2-channel induction loop detector	- push-button - pull switch - radar - infrared detector - receiver (Keeloq) - 2-channel induction loop detector	- push-button - pull switch - radar - infrared detector - receiver (Keeloq) - 2-channel induction loop detector	
Door control unit Novo Speed Economic with integrated frequency control 0.75 kW	Door controls Novo Speed Flex, Basic, Indoor, Twin or Alu with integrated frequency control	Door control unit: Novo Speed Heavy Outdoor, special, Alu, ISO Highspeed with frequency control integrated	- printed-circuit board with 4 extra relays for extensions
yes	yes	yes	
Two-way blocking for lock with operating device: - flashing light - registration of door position for external control - extension printed-circuit board not possible	Two-way blocking for lock with operating device: - traffic lights red/green, direction-dependent, or... - door position registration for external control	Two-way blocking for lock with: - operating device - traffic lights red/green, direction-dependent - registration of the door position for external control	not applicable
- 2-channel induction loop detector printed circuit board - receiver Keeloq (in-built) - no further fitting space available	- 2-channel induction loop detector printed circuit board - receiver Keeloq (in-built) - extension printed circuit board with 4 extra potential-free relays and TS35 rail for extra components	- 2-channel induction loop detector printed-circuit board, receiver Keeloq (in-built), extension printed-circuit board with 4 extra potential-free relays and TS35 rail for extra built-in components	not applicable
With the Novo Speed Economic: - 110 CY 4 x 1.5 mm² - Ölflex 9 x 0.75 mm² - CEE plug 3-pole - 1 x 230 VAC, 16A	With the Novo Speed Flex: - 115 CY 8 x 1 mm² - LIYY 4 x 0.34 mm² With the Novo Speed Basic and Alu: - 110 CY 4 x 1.5 mm² - Ölflex 9 x 0.75 mm² - CEE plug 3-pole - 1 x 230 VAC 16A	With the Novo Speed Heavy Outdoor, Special, ISO Highspeed, Novo Speed Alu: - Ölflex 9 x 0.75 mm² - CEE plug 3-pole - 400 VAC, 16A	
- insert foot for induction loop detector - two extra relays, potential-free - no cable space	- insert foot induction loop detector - two extra potential-free relays - with the Novospeed Flex and Alu a relay is used for control of the light screen	- insert foot induction loop detector - two extra potential-free relays - many possibilities for inputs and outputs as standard	
- synthetic housing with foil switches U-S-D - power 1 x 230 VAC, T16A - cabinet IP54	Metal cabinet with: - foil switches U-S-D - power 1 x 230 VAC, T16A - cabinet IP54	Metal cabinet with: - foil switches U-S-D - power 400 VAC, T16A - cabinet IP54	

Accessories



Push-button
(surface mounted)
mushroom



Safety photocell
with reflector



Iris
Infrared for inside to
H = 4 m



Push-button set
Up-Stop-Down
(surface mounted)



Housing
for photocell and
reflector (seen
from the mounting
face)



Activ8
Infrared and movement
sensor for inside to H = 4 m



Push-button set
Up-Stop-Down
key-operated
switch (surface
mounted)



Pull switch



Radar
Movement sensor
for interior and
exterior use to
H = 6 m



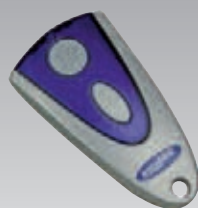
Push-button set
Up-Stop-Down
with illuminated
push-buttons
(surface mounted)



**Key-operated
switch**



Condor
Infrared and
movement sensor
for interior and
exterior use to
H = 6 m



Hand transmitter
2-channel



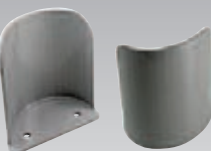
Support bracket
for radar or traffic
lights



**Induction loop
detector**
in separate
housing



Hand transmitter
4-channel



Console
Protection against
colliding with the
columns



Traffic light
red



Receiver
for remote control
(also available in
housing)

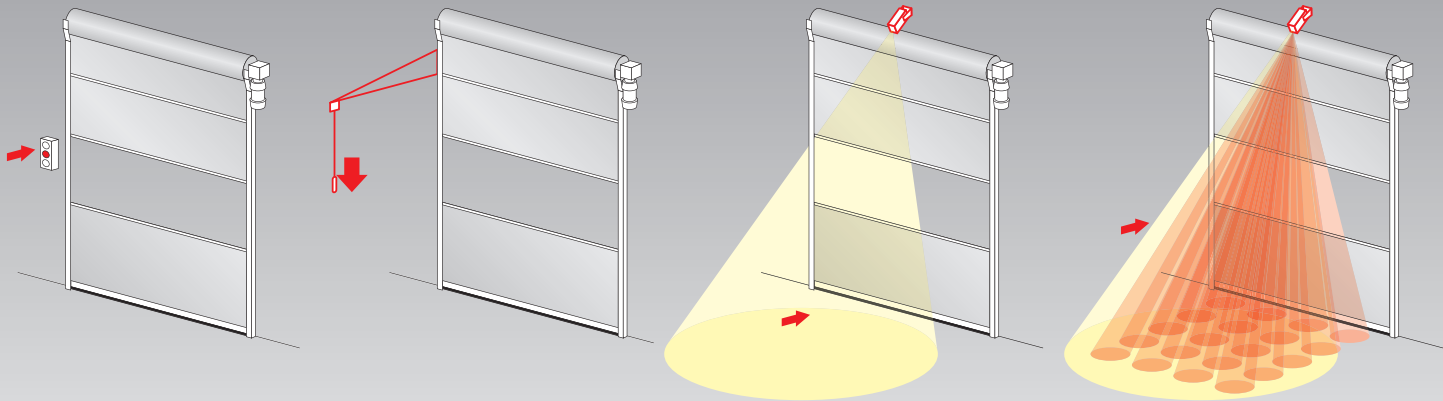


Light curtain
Protection of the
door opening to
a maximum height
of 2,500 mm



Traffic light
red/green

Controls



Push-button

Push-buttons are used pre- dominantly for personnel traffic. In situations where the hands are not always free push-buttons are a solution.

Pull switch

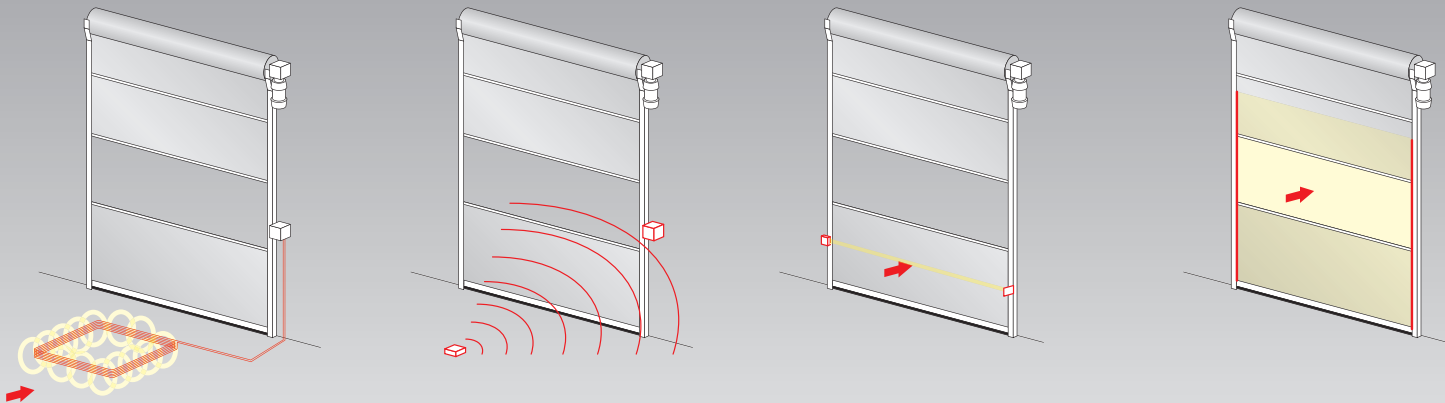
The pull switch is used mainly for forklift truck traf- fic so the driver can operate the switch without getting out of the vehicle.

Radar

Radar devices only detect moving objects. The radar has a conical detection area and is direction-sensitive. The size, direction and sen- sitivity of the radar field are adjustable.

Condor

The Condor combines two functions in one appliance. Radar for the detection of moving objects and active infrared for the detection of stationary objects.



Induction loop

An induction loop causes a magnetic field. A metal object within the field is detected and is therefore suitable for operation or extra safety with fork-lift transport.

Radiographic

Radiographic operation (transmitter and receiver) offers the possibility of selective operation. Only vehicles or personnel with a transmitter can open or shut the door. The transmitters may have one or more channels.

Photocell

The photocell is mainly used to monitor the passageway. As long as the photocell beam is broken the door will not close. There are designs with reflector and designs with transmitter and receiver.

Light curtain

A light curtain has a larger detection range and accord- ingly offers greater safety than a photocell. This form of detection is extremely suitable with a large variety of transport sizes.

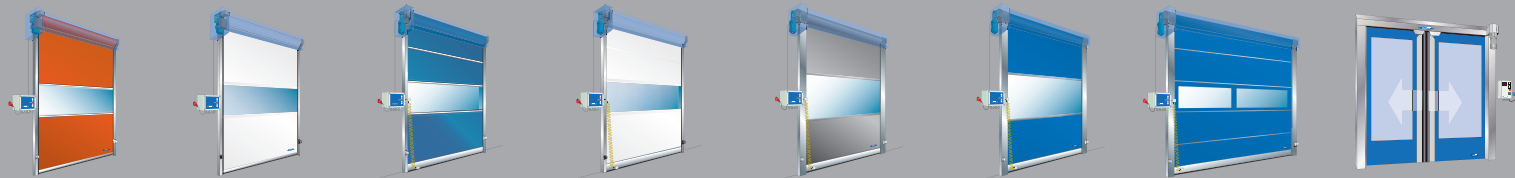
Technical data

Rapid roller doors with flexible curtain

● = standard
● = optional



	CONCERNS	UNITS	Flex hard edge	Flex hard edge
application	inside door		●	●
	outside door			
speed	magnetic switch control	opens m/sec (approx.)		
		closes in m/sec (approx.)		
	frequency control	opens m/sec (approx.)	2 m/sec	2 m/sec
		closes in m/sec (approx.)	0.5 m/sec	0.5 m/sec
wind-resistance in Beaufort	DIN EN 13.241		●	●
			5	5
wind load	DIN EN 12.424		class 0	class 0
wind protection			blocks	blocks
door sizes	width	maximum in mm	4,250	3,500
	height	maximum in mm	5,000	5,000
overall sizes	maximum surface area	maximum m²	20	17.5
	drive side	clear width + mm	160	160
	bearing side	clear width + mm	160	160
	height	clear height + mm	650	650
		clear width + mm with protective cover	160	160
		clear height + mm with protective cover	650	650
	depth	from the wall	420	420
	SMD control in synthetic cabinet	w x h x d = 300 x 250 x 125 mm		
	SMD control large with extension	w x h x d = 300 x 350 x 125 mm		
	frequency control FUS 0.75 kW	w x h x d = 200 x 300 x 125 mm		
	frequency control FUE 1.5 kW	w x h x d = 300 x 350 x 150 mm	●	●
	frequency control FU3E-C 4 kW	w x h x d = 300 x 450 x 150 mm		
	manual bringing into operation			
	auto 're-feed' (self-resetting)		●	●
door construction	self-supporting		●	●
door leaf	transparent	0.8/1.5 mm	0.8 mm	0.8 mm
	coloured PVC	0.7/1.2/1.5/3 mm	1.2	1.2
curtain span				
material/surface guide	galvanised steel			
	stainless steel V2A, ground (cq stainless steel 304)			
	aluminium		●	●
	coated in RAL colour as desired		●	●
drive and control	magnetic switch control			
	connection voltage		1 x 230V, N, PE	1 x 230V, N, PE
	current protection		16 A slow operation	16 A slow operation
	protection class	drive control	IP 54	IP 54
	magnetic switch with CEE plug			
	frequency control		●	●
	connection voltage (single phase)		●	●
	connection voltage (triple-phase)			
	foil switch U-S-D		●	●
	control, main switch all-pole switching off		●	●
	emergency stop		●	●
	protection of the door opening	photocell + edge protection		
		light screen	●	●
	opening time in seconds		0-200	0-200
	closing edge protection	chain cable carrier		
		wireless transfer		
		coil cable		
	electronic limit switch DES or pulse generator		●	●
emergency opening	crank			
	emergency hand chain			
	counterweight/spring		●	●
	UPS with FU control, 230V	'o' only with frequency control	●	●
potential-free contacts				
pulse generators				
safety elements	emergency opening mechanical		●	●

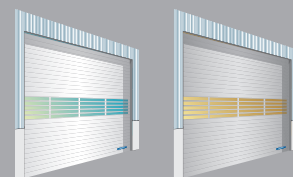


	Economic	Economic food	Basic	Basic Food	Heavy Indoor	Heavy Outdoor	Special	TWIN
	●	●	●	●	●	●	●	●
	1 m/sec	1 m/sec	1 m/sec	1 m/sec	1 m/sec	1 m/sec		
	1 m/sec	1 m/sec	1 m/sec	1 m/sec	1 m/sec	1 m/sec		
	1.5 m/sec	1.5 m/sec	1.5 m/sec	1.5 m/sec	1.5 m/sec	1.5 m/sec	1.2 m/sec	3 m/sec
	0.5 m/sec	0.5 m/sec	0.5 m/sec	0.5 m/sec	0.5 m/sec	0.5 m/sec	0.3 m/sec	0.5 m/sec
	●	●	●	●	●	●	●	●
	3	3	5	5	5	8	8	5
	class 0	class 0	class 0	class 0	class 0	class 0	class 0	class 0
	reinforcers	reinforcers	reinforcers	reinforcers	reinforcers	reinforcers	reinforcers	leaf span
	3,000	3,000	4,000	4,000	6,000	6,000	8,000	4,000
	3,500	3,500	5,000	5,000	6,000	6,000	8,000	4,000
	9	9	20	20	36	36	64	16
	290	290	310	310	470	470	430	335
	160	160	160	160	275	275	250	335
	475	475	575	575	750	750	700	231
	355	355	355	355	550	550	435	335
	475	475	600	600	750	750	500	231
	390	390	350	350	400	400	400	720
	●	●	●	●	●	●		
	●	●	●	●	●	●		
	●	●						
			●	●				●
					●	●	●	
	●	●	●	●	●			●
							●	●
	0.8 mm	0.8 mm	0.8 mm	0.8 mm	0.8 mm	3 mm	3 mm	1.5 mm
	0.7 mm	0.7 mm	1.2 mm	1.2 mm	1.2 mm	3 mm	3 mm	1.5 mm
						●	●	●
	●		●		●	●	●	●
		●		●				
	●		●		●	●	●	●
	●	●	●	●	●	●		
	3 x 400V, N, PE	3 x 400V, N, PE	3 x 400V, N, PE	3 x 400V, N, PE	3 x 400V, N, PE	3 x 400V, N, PE	3 x 400V, N, PE	1 x 230V, N, PE
n	16 A slow operation	16 A slow operation	16 A slow operation	16 A slow operation	16 A slow operation	16 A slow operation	16 A slow operation	16 A slow operation
	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
	●	●	●	●	●	●		
	●	●	●	●	●	●	●	●
	●	●	●	●	●			●
	●	●	●	●	●	●	●	
								●
			●	●	●	●	●	●
	0-90	0-90	0-90	0-90	0-90	0-90	0-90	0-200
								●
			●	●	●	●	●	
								●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	
	●	●	●	●	●	on request	on request	●

Technical data

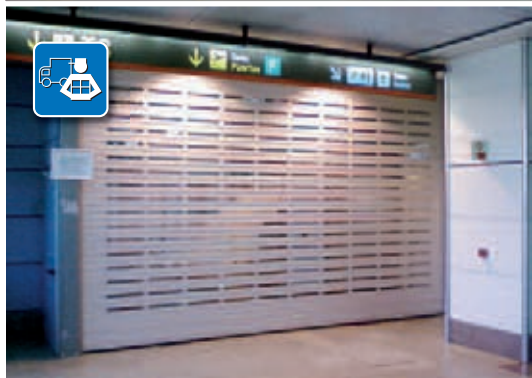
Rapid roller doors with hard curtain

● = standard
● = optional



	CONCERNS	UNITS	NS ALU	NS ALU A
application	inside door			
	outside door		●	●
speed	magnetic switch control	opening at m/sec. (approx.)		
		closing at m/sec. (approx.)		
	frequency control	opening at m/sec. (approx.)	2	1
		closing at m/sec. (approx.)	0,7	0,7
safety equipment	DIN EN 13.241		●	●
resistor wind load	DIN EN 12.424		class 3	class 3
resistance to penetrating water	DIN EN 12.425		class 2	class 2
air permeability	DIN EN 12.426		class 2	class 2
heat permeability	DIN EN 12.428		0	0
noise-damping	DIN EN 52210 dB		20 dB	20 dB
dimensions	width	maximum in mm	6,000 (8,000)	5,000
	height	maximum in mm	6,000 (8,000)	5,000
overall sizes	drive side	clear width + mm	380	350
	bearing side	clear width + mm	250	120
	lintel	clear width + mm	650	650
	height	clear height + mm	650	550
	drive side	clear width + mm with protective cover	420	400
	bearing side	clear width + mm with protective cover	300	170
	lintel	clear width + mm with protective cover	700	700
	height	clear height + mm with protective cover	700	600
	frequency control FUE 1.5 kW	w x h x d = 300 x 350 x 150 mm	●	●
	frequency control FU3E-C 4 kW	w x h x d = 300 x 450 x 150 mm	●	> 16 m²
door construction	self-supporting		●	
door leaf	profiles, double-walled, thickness in mm		20	20
	thermally insulated profile		●	●
material door leaf	aluminium anodised E6/EV1		●	●
	aluminium with RAL powder coating as desired		●	●
glazing	synthetic windows, double		●	●
	ventilation opening		●	●
material/surface guide	galvanised steel		●	●
	galvanised steel coated in RAL colour as desired		●	●
drive and control	frequency control		●	●
	connection voltage (single phase)		●	●
	connection voltage (triple-phase)		> 24 m²	> 16 m²
	foil switch U-S-D			
	frequency control, main switch all-pole switching off		●	●
	current protection		16A T	16A T
	protection class	drive control	IP 54	IP 54
	emergency stop		●	●
	protection of the door opening	Photocell	●	●
		light screen	●	●
	opening time in seconds (approx.)		0-200	0-200
	closing edge protection	with chain cable carrier		
emergency opening		with wireless transfer		
	electronic limit switch DES or pulse generator		●	●
	crank		●	●
	emergency hand chain		●	●
potential-free contacts	counterweight/spring		●	●
	UPS with FU control, 230V		●	●
pulse generators				
safety elements			700	600

References



References



References



One-Stop-Shop





One producer, one supplier

Novoferm not only provides draught-excluding products, we offer you a complete range of industrial doors, multifunctional pass doors, fire doors and dock equipment. There is a top quality product from Novoferm that suits any opening in a modern industrial building. Doing business with one partner has the following advantages:

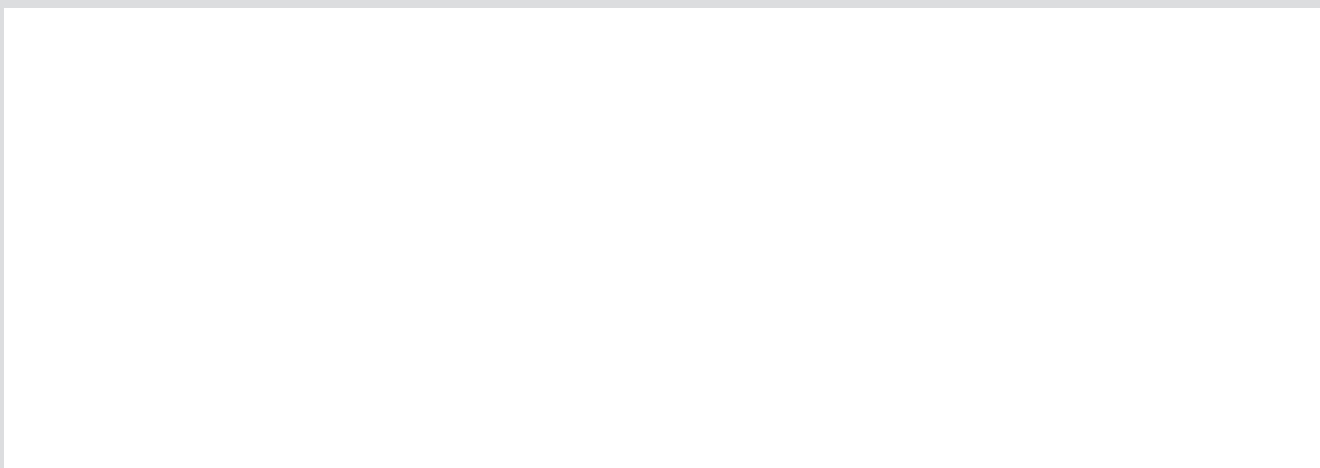
- only one point of contact for all products, assembly, maintenance and after-sales
- products are matched with each other
- the delivery of products takes place automatically in the right order
- the technicians are familiar with all the products.

www.novoferm.com

www.novospeedsolutions.com

Novoferm, always near to you across the whole of Europe

The Novoferm Group is one of the leading companies in the field of industrial doors, pass doors, casings and drives. We offer an extensive range of products to private individuals and companies. All our products are designed and produced according to the highest quality standards and the latest best available techniques. We also guarantee optimal functionality and an innovative design. Production takes place in different places in Europe with an extensive dealer network that is always available to you within easy reach.



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