COOL-TEK

# Rapida Cooler

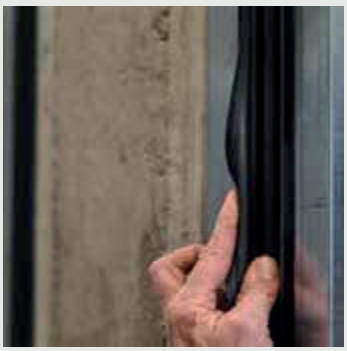
## Vertical high-speed door for cold rooms

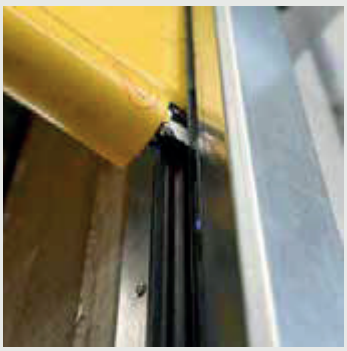
**Fast – Insulating – Economical.**

**Reduces your energy costs sustainably!**

Find out more at

**www.cooltekdoors.com**





## Areas of application

The Cool-Tek Cooler is an extra-insulated, vertical high-speed film door that has been specially developed for use in cold rooms or refrigerated rooms. The door is also available in a stainless steel version. This makes the Cool-Tek Cooler particularly suitable for the food industry.

## Insulation and sealing

Thanks to the integrated side guide rail and lintel seals, as well as the specially developed insulating door curtain, the Cool-Tek Cooler reduces your energy costs and thus contributes to the profitability of your company.

## High running speed and emergency opening function

Thanks to the standard curtain compensation system, an opening speed of up to 8 ft/s and a closing speed of 5 ft/s are possible. The speeds can be adjusted as desired using the control system. Automatic emergency opening in accordance with ASR 1.7 is possible.

## Electrical equipment and safety

The Cool-Tek Cooler is operated via a 230V frequency converter control. This enables a wide range of possible combinations with various command devices from many manufacturers. A self-switching light grid is used as a closing edge safety device, which ensures contactless reversing.

## Anti-crash system

The door curtain is additionally equipped with a flexible bottom seal that pops out of the guide rails in the event of a collision .The door leaf is then able to re-enter the guide rails on its own. The Cool-Tek Cooler then works perfectly again with the next opening impulse.

## Technical details

- Basic construction consisting of lateral guide rails and steel support profiles (also available in V2A stainless steel as an option)
- Opening speed up to 8 ft/s
- Closing speed up to 5 ft/s
- Anti-crash system
- Flexible door leaf closure
- Electric drive with frequency converter and emergency stop button
- Foil button OPEN – STOP – CLOSE
- Closing edge protection by self-switching light grid
- Various colors available
- Dimensions: Up to 16' x 16' possible

All technical specifications are subject to change without notice.

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Cool-Tek Insulated Door Company LLC
311 East Monroe Street
US WI 53807 Cuba City

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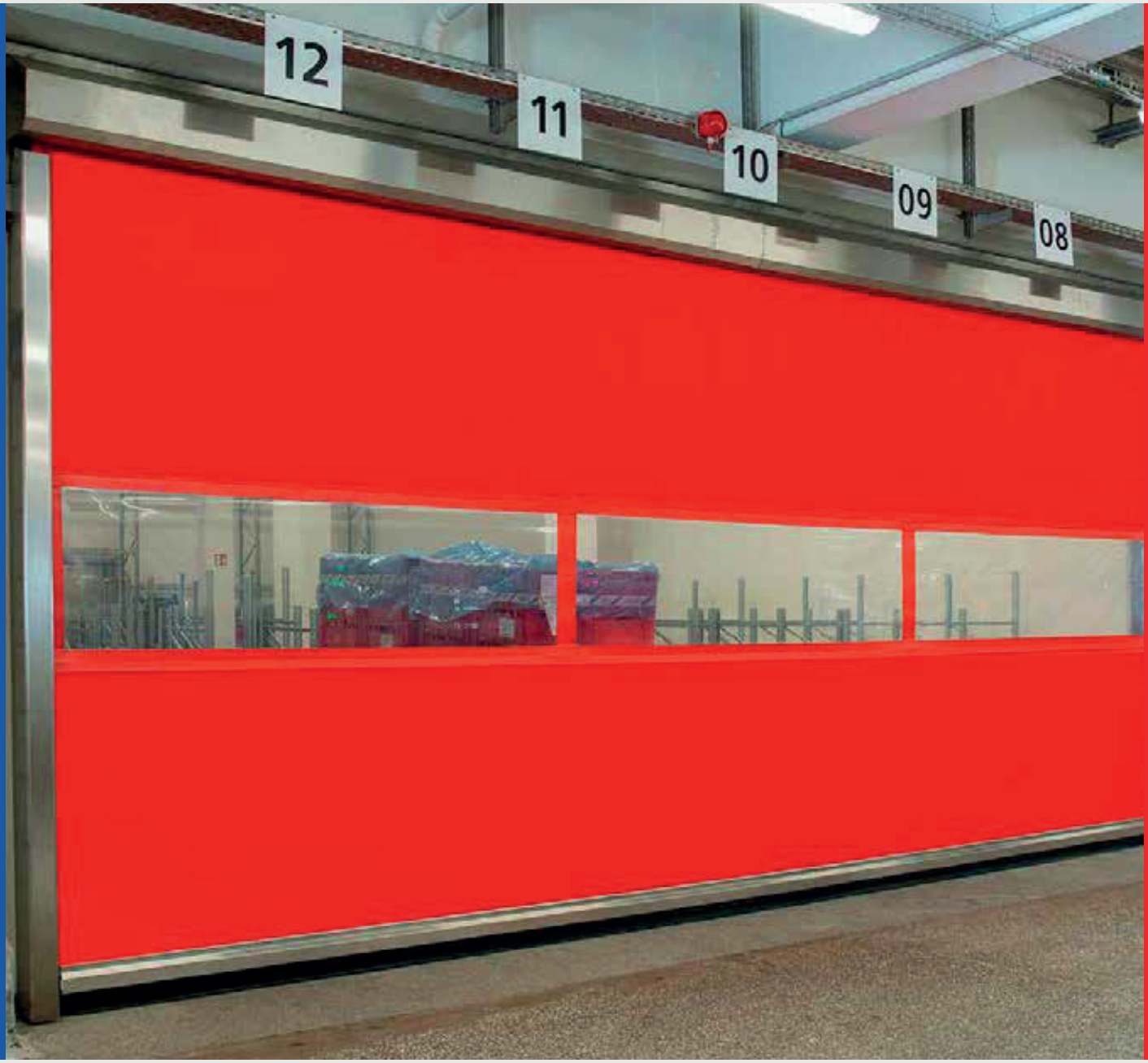
# Food Series

V2A stainless steel: Specially designed for hygiene areas




**Resilient – Fast – Secure.**

**The door series for the highest demands!**

Find out more at

**www.cooltekdoors.com**

# High-speed doors made of V2A stainless steel for hygienic areas:

*Cool-Tek Food / Cool-Tek Cooler Food / Cool-Tek Insect Protect Food / Escape Food*

Guarantee food safety, meet hygiene standards, increase energy efficiency, simplify cleaning processes, and reduce downtime—these are just some of the advantages offered by the Cool-Tek Food series, which was developed in accordance with DIN 1672 for "Hygienic Design."
The processing and manufacturing of food or pharmaceutical products requires a high degree of sensitivity.
A key feature of the standard is the ability to clean surfaces and structural elements without impairment. This is because the processing and manufacture of food or pharmaceutical products requires particular sensitivity.
A key aspect of the standard is the ability to clean surfaces and structural elements without restriction. Attention has therefore been paid to sloping surfaces on which water or waste cannot collect.

The term "hygienic design" refers to the cleanable design of machines, systems, and components used in hygiene-relevant areas of the food, beverage, chemical, pharmaceutical, cosmetics, and biotechnology industries. Up to 30 percent of "idle time" in such production environments is attributable to cleaning and maintenance work. The Cool-Tek Food series helps to keep these downtimes to a minimum and to comply with hygiene regulations. Starting with the product design and continuing through to the selection of materials and system components. No electronic components are installed on the entire door leaf or on the bottom seal.
The rail system contains a highly water-resistant safety light grid or a safety light barrier.

## Cool-Tek Food Series: Technical Features

- Basic construction made of V2A stainless steel in accordance with hygienic design standards
- Opening speeds of up to 8 ft/s
- Closing speeds of up to 5 ft/s
- Anti-crash system (wind class 0 to 1)
- Wind class 2 optional (without anti-crash system)
- Escape route function
- Special requests on request
- Many standard colors for short delivery times
- Control cabinet made of V2A stainless steel, certified to IP 68, optionally available
- Light grid integrated in side rails, certified to IP 68 (EST light barrier)

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# Energy-saving door

## Vertical high-speed door for cold storage facilities

**Fast – Safe – Economical.**

**Saves energy and time!**

Find out more at

**www.cooltekdoors.com**

# The Cool-Tek-EST

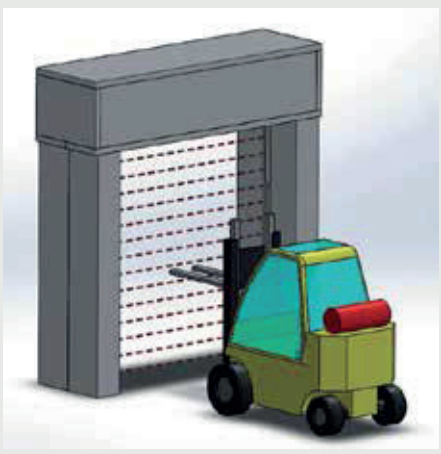
## Energy-saving door

The Cool-Tek-EST (energy-saving door) is the world's first high-speed door that combines the positive characteristics of conventional sliding and high-speed doors in a single product. The Cool-Tek-EST can be installed on both the warm and frozen sides and has an emergency opening. Heating during operation is provided by the waste heat from the drive. In addition, an energy-efficient electric heater is integrated.

The Cool-Tek-EST revolutionizes the concept of a "door," as the product was developed from the ground up to meet the specific needs of deep-freeze applications. All components used in this segment to date have been developed to meet the specific needs of deep-freeze applications.

The Cool-Tek-EST revolutionizes the concept of a "door," as the product was developed from the ground up to meet the requirements of deep-freeze applications. All door systems used in this segment to date were unable to meet the requirements due to existing cold bridges. Even the use of additional heaters was unable to solve this problem satisfactorily.


The Cool-Tek-EST differs conceptually in this respect. The entire construction, consisting of ISO sandwich panels, was designed to avoid any cold bridges. This concept not only protects the entire mechanics and electrics of the door system, but also allows it to be used in deep-freeze areas of up to -30°C.

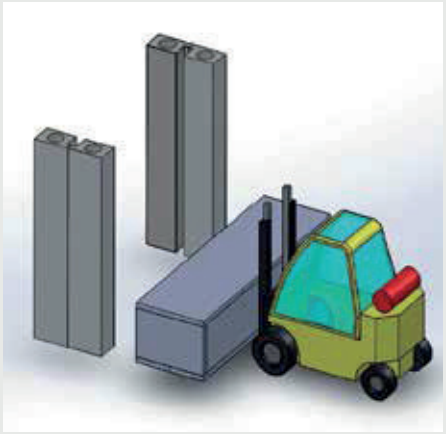


### Safety system for trouble-free operation

The Cool-Tek-EST comes standard with two safety systems.
The closing edge safety device works via an 8.2 kΩ safety contact strip, which is integrated into the bottom seal strip (in accordance with ASR 1.7).
In addition, the Cool-Tek-EST has 4 safety light barriers to minimize the risk of possible collisions and enable contactless reversal of the door.

### Anti-crash system

In the event of a collision with the door leaf or the bottom seal, the bottom seal jumps out of the guide rail with the door leaf.
These can be quickly and easily pushed back into the guide by hand.
The door then continues to function normally with the next opening impulse.



## High running speed

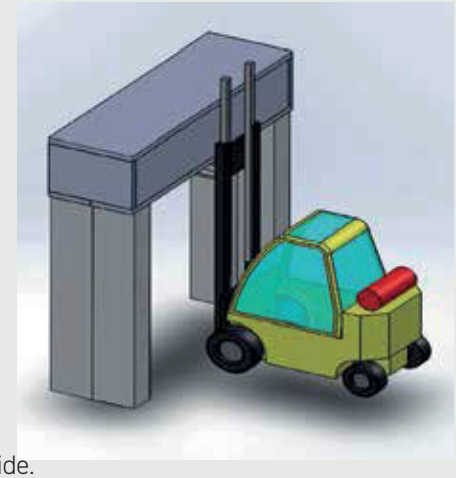
With an opening speed of up to 8 ft/s and a closing speed of 5 ft/s, the Cool-Tek-EST speeds up your work processes like no other freezer door.
Waiting times are minimized and energy loss is reduced.

## Installation side cold/warm

The Cool-Tek-EST is one of the few deep-freeze doors that can be installed on the warm side and on the cold side (down to -30°C) and can be operated reliably.

## Construction

The Cool-Tek-EST is constructed as a three-part modular system: one head section and two side sections. The entire door construction of the Cool-Tek-EST is made of sandwich panels and is therefore completely self-supporting. This design makes installation completely independent of the wall conditions on site.



## Electrical equipment

The control system used is a 230V frequency converter control, which allows a wide range of combinations with a variety of command devices from many manufacturers. Furthermore, all the wiring is located inside the door. This means that no electrical cables are exposed to sub-zero temperatures and nothing of the electrical system is visible from the outside.

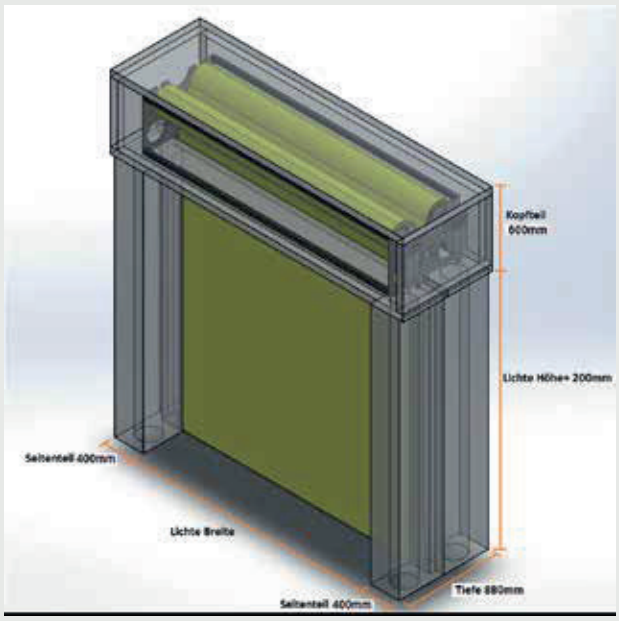

## Emergency opening

Thanks to the integrated weight compensation of the door leaf, the door leaf can be raised in an emergency situation using the innovative emergency operating device provided.

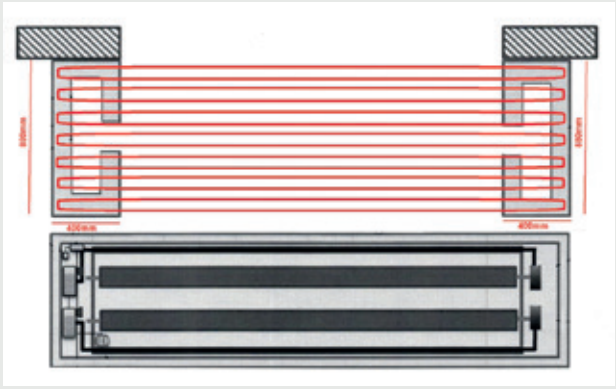
## Insulation

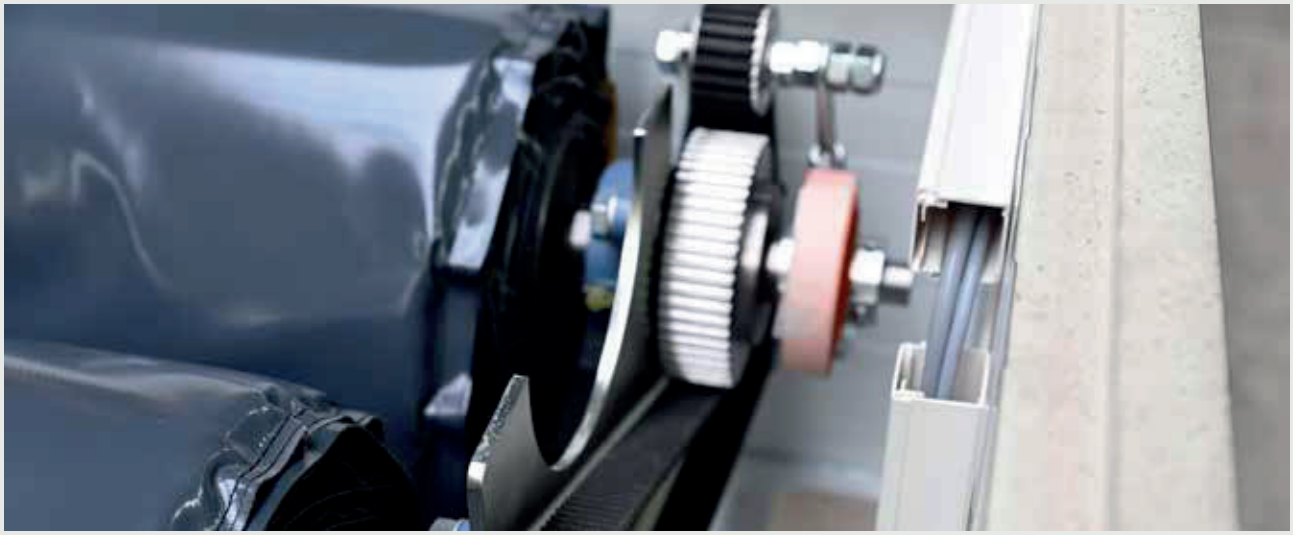
The door leaf consists of a total of four different insulation layers.
Two outer curtains (tear-resistant PES fabric in RAL 7016) and two insulating curtains, which were specially developed for use with Cool-Tek EST.
This design creates three additional layers of air, which contribute to insulation.
The combination of insulation and air layers results in a very high insulation value with a heat transfer coefficient of 0.31 W/sqm/K for a door leaf thickness of only 3 inch.

## Space requirement




## Heating overview





## Technical data sheet

- Adjustable opening speed up to 8 ft/s
- Closing speed up to 5 ft/s
- Drive 1.5 KW
- System value (Uf) 0.68 W/sqm/K
- Safety features: Safety edge, safety light barrier
- Modular design with 3 components
- 230V frequency converter control
- Space requirement in lintel area: For door heights up to 15' = 2' 7 1/2" From door heights over 15' = 2' 11 1/2"
- Space requirement on drive side = 1' 3 1/2"
- Space requirement on bearing side = 1' 3 1/2"

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# Food

## Vertical high-speed door – V2A stainless steel

**Fast – Safe – Economical.**

**V2A stainless steel: Specially designed for hygiene applications**

Find out more at
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# Cool-Tek Food

## High-speed door for hygienic areas

The newly developed Cool-Tek Food was developed in accordance with the requirements of DIN 1672 for "Hygienic Design." Manufacturers have to take many details into account, from the choice of materials to the individual system components. All mechanical components are made of V2A stainless steel, making them resistant to cleaning agents used in the food industry.

Cool-Tek Food was developed specifically for use in the food industry and is suitable for indoor and outdoor use. A robust high-speed door for production, e.g., specifically in the food and pharmaceutical industries.

In particular, the use of cleaning foam in routine cleaning does not impair the function of this high-speed door or lead to failures.

There are no electronic components installed on the entire door leaf or on the bottom seal.

The rail system contains a light barrier that is highly resistant to water.

The light grid (protection class IP 67) of the Cool-Tek Food meets the requirements for safe closing

### High operating speeds

With an opening speed of up to 8 ft/s and a closing speed of 5 ft/s, the Cool-Tek Food speeds up your work processes. Waiting times can be minimized and the productivity of workflows improved.

### Anti-crash system (wind class 0 to 1)

In the event of a collision, the door leaf with flexible closure is able to re-engage itself in the guide rails. This reduces customer service calls to maintenance intervals.

### Escape route function certified according to ASR 1.7

The slip-on gear motor with working current brake ensures that, in the event of a power failure, the brake opens and the door is automatically opened via the integrated weight compensation system.

### Special requests on request

If you have other requirements for the design of your door or the technical options, please contact us.
We will find the right solution for every requirement.

## Colors

Cool-Tek Food is available in a wide range of standard colors: green, yellow, orange, red, blue, and four different shades of gray. With this selection, you benefit from particularly short delivery times.

In addition, many other curtain colors are available upon request and, if necessary, at an additional cost.

As an option to the colored curtains, a fully transparent or insect screen version is available.

7035 9006 7024 7016 5010 2004 1018 3020 6018

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Indoor use** | **yes** |
| **Outdoor use** | **no** |

**Dimensions**

| | |
|---|---|
| **Width Min. / Max.** | **3' 3 1/2" / 18' 1/2"** |
| **Height Min. / Max.** | **3' 3 1/2" / 18' 1/2"** |

**Space requirement Net, (in brackets with installation space)**

| | |
|---|---|
| **Motor side from lintel opening (D)** | **8" (1' 1")** |
| **Guide rail motor side to lintel opening (C)** | **4" (6")** |
| **Guide rail opposite side with compensation system (B)** | **8' 1/2" (10")** |
| **Lintel (A)** | **1' 3 1/2" (1' 5 1/2")** |

| | |
|---|---|
| **Motor side** | **right or left** |
| **Door run balanced** | **Tension spring integrated in side guide rail** |
| **Wind load EN 12424** | **Class 0 to 2, depending on size and design** |

**Mechanical construction**

| | |
|---|---|
| **Guide rails** | **Stainless steel V2A** |
| **End profile** | **Stainless steel V2A** |
| **Main shaft** | **Stainless steel V2A / plastic** |
| **Brackets** | **Stainless steel V2A** |

**Door curtain**

| | |
|---|---|
| **Colored PES without window** | **9 standard colors** |
| **Colored PES with window mit Fenster** | **Made of transparent PVC, 650 mm high** |
| **Colored PES with vertical vision strips** | **** 4 weeks delivery time!** |

**Electrical components:**

| | |
|---|---|
| **Opening speed** | **Bis zu 8 ft/s** |
| **Closing speed** | **Bis zu 5 ft/s** |
| **Engine** | **0.55-2.2 KW* Plug-on drive incl. absolute encoder** |
| **Door control** | **Frequency converter door control 230 V, 50 Hz** |
| **Power supply** | **230 V, 16 amps, CEE** |
| **Safety devices** | **Safety light grid** |

**Anti-crash system**

| | |
|---|---|
| **Wind class 0-1** | **yes** |
| **Wind class 2** | **yes** |

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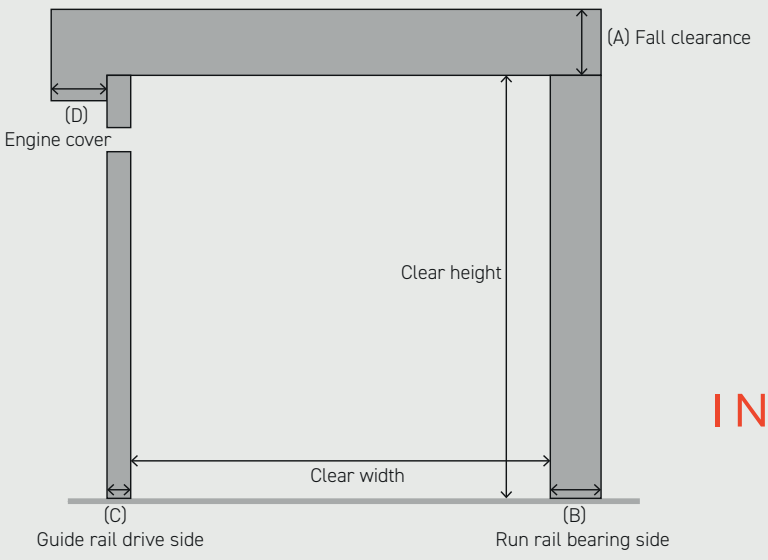


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