



The **EBS THERMOspeed 3/09** or the 3/09 HDF (deep-freeze) is characterised by its high thermal insulating properties and extensive optional components, which make it the ideal rapid roll door for in-/outdoor and also for climate controlled environments; U-value = 0.9 W/m<sup>2</sup>K (R-value 6.31).

THERMOspeed doors are designed and built to the highest German quality and standards, with mostly recyclable materials used in the fabrication. Main profile, transverse girder are fabricated with aluminium and galvanised (or stainless) steel.

Guiding devices, shaft ends as well as profiles for the integration of the door panels are made of aluminium. All steel and aluminium components are fastened using stainless steel screws.



#### KEY ADVANTAGES

- Energy saving thermal insulation
- No icing up in freezer environments
- Compact and space saving
- Modular door curtain
- Resilient to damage
- Low maintenance and repair costs
- Low risk of injury to personnel

Using intelligent and versatile electronic systems allows the seamless integration of EBS doors with third party conveyor systems and robotic production lines. They also provide flexibility for further implementation of future add-ons, such as sensors and signals...

#### TECHNICAL SPECIFICATIONS

- U-Value of door curtain (DIN 4701): 0.9 W/m<sup>2</sup>K (R-value 6.31)
- Wind resistance: Up to 8 on the Beaufort scale
- Standard opening: 5 m x 6 m (Non Standard up to 13 m)
- Opening speed: Up to 2.8 metres per second
- Temperature range: -35°C to +95°C



### EBS THERMAL PANELS

Chemically cross-linked, closed-cell, highly flexible and robust PE foam material.

- Thermal efficiency: 0.9 W/m<sup>2</sup>K or R 6.31 (DIN 4701)
- Thickness: 30mm
- Thermal application range: From -35°C to +95°C (DIN 51949, DIN 53431)
- Low flammability: Class B2 (DIN 4102)
- CFC-free
- Colour: Grey

### CRASH PROTECTION

Our innovative mechanical snap-lock body is integrated into the lower segment of the door. In the event of impact from either side, the door is released from its guides, which helps to minimise or even avoid damage being done to the door. The door can then be easily locked back into the guide rails, allowing for operations to resume quickly.

### DRIVE MOTOR

- Can be placed on the right or left side of the door
- Worm gear with fall protection guard
- Plastic housing: IP54 (water spray)
- Engine brake moment: 8 Nm
- Required power: 0.75KW to 1.5KW

### DOOR CONTROL SYSTEM

For speed control, the high speed door is smoothly accelerated up to the maximum speed and then gently slowed down into the final position. Thus, motor forces do not cause excessive strain on the panels. This ensures smooth opening and closing actions and considerably increases its operational lifecycle.

- Opening and closing speeds: 0.75 to 2.8 m/s
- 24 volt microprocessor controlled with frequency converter
- Membrane keyboard (open -stop -close)
- Plastic or steel case IP 54 (optional)
- Emergency stop button
- Voltage requirements: 400V AC or 230V AC + - 10%, 50-60Hz

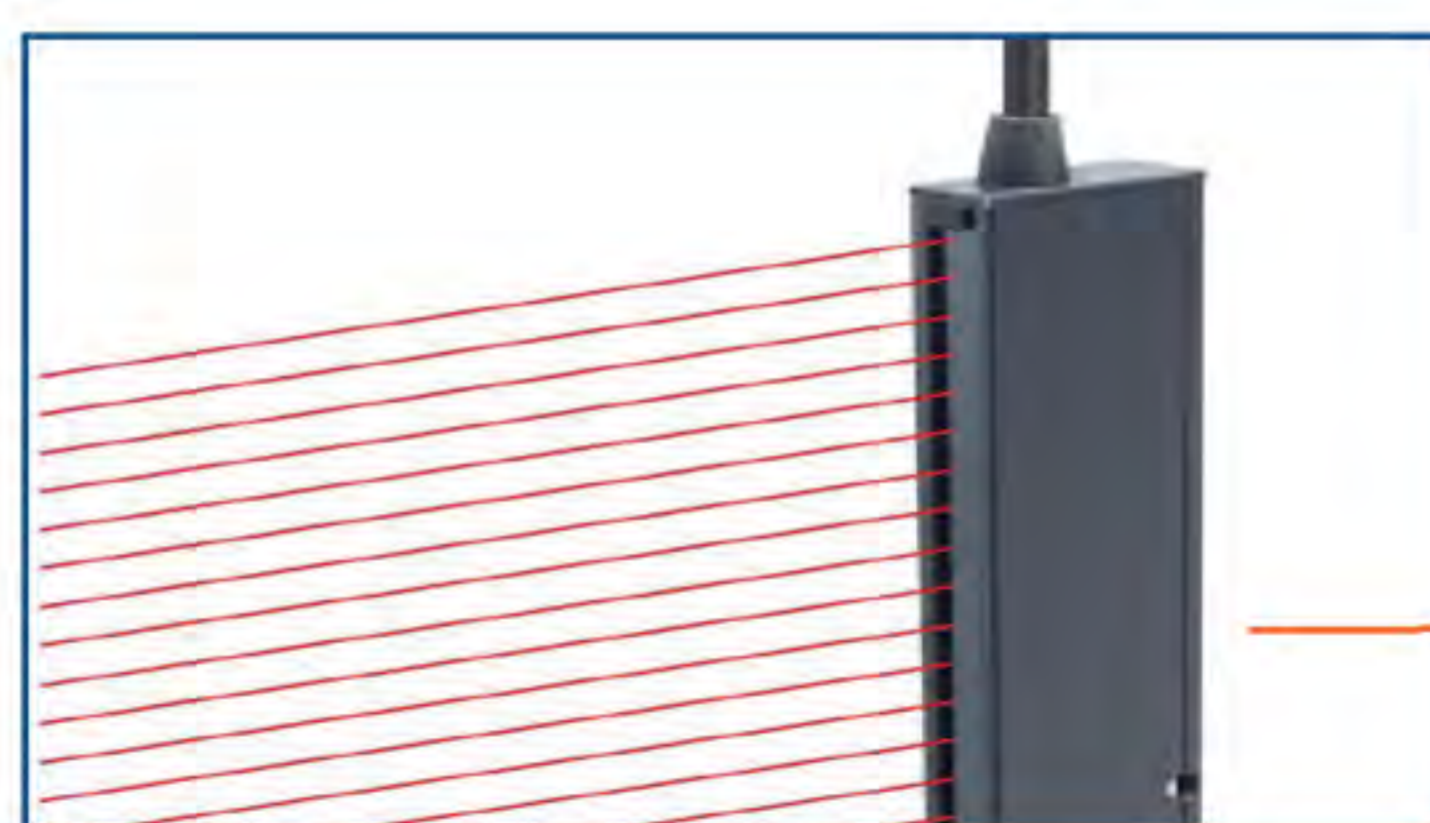
Specially formulated EBS closed-cell, PE material



EBS Crash Protection



EBS snap-lock device releases door upon impact



A standard safety feature with EBS industrial doors is the implementation of Light Curtains.

■ SAFETY (ZH 1/494/EU):

- Electronic contact strip
- Light barrier or curtain
- Fall protection
- Emergency manual crank

■ REQUIRED SPACE:

- Width for main profiles:  
Motor side profile 300mm minimum  
Non motor side profile 150mm minimum
- Space required above lintel: 700-800 mm

■ OPTIONS:

- Warning signals
- Safety window
- Remote control
- Stainless steel