

EIGER DOOR

Standard Specification



CRASH-OUT (AUTO-RESET)

Eiger Door features the unique 'Crash-Out & Auto-Reset' facility – designed to eliminate damage to the bottom bar when hit by a speeding forklift truck – for which Union's range of High Speed Doors is famous.

DOOR BLADE TYPE

750gsm PVC coated Polyester with smooth anti static finish. Fire Retardant to ISO 340. Double-skinned construction separated by 100mm thermal gap and reinforced with integral steel wind braces concealed within horizontal pockets. Vertical edges welded with double thickness rub strips to resist wear and increase blade life.

DOOR BLADE COLOUR

White.

COLUMNS & SIDE GUIDES

Twin 120mm x 120mm x 5mm SHS steel columns with counterweight assisted opening. Grade 304 Stainless Steel side guide pressings (bolt-on, for quick and easy replacement). Fundamental to the circulation of the dehumidified air is the segmental Stainless Steel central pillar fitted between, and separating, each pair of columns.

TOP ROLLERS

2 off 168mm o/d x 5.0mm CHS steel tubes, terminating at each end with 30mm diameter EN24 stub shafts running in self-aligning bearing units, speed synchronised via twin simplex chain drives at each end with trans-torque collet type bushes.

TOP ROLL HOOD COVER

This comprises of six separate pieces, namely a hollow section sub-frame, two end sections, one intermediate section and a motor cowling with detachable hatch cover to give access to the motor. It is powder coated to match the side guides and is manufactured from 2mm thick mild steel with pressed return leading edges for added strength. All joints are secretly overlapped to enable a waterproof seal to be achieved between sections.

BOTTOM BEAM

2 off 50mm x 30mm x 3mm RHS steel beams, separated by steel spacers, sandwiched between two stainless steel pressings. Each beam fitted with a Safety Edge Contact Profile, PVC Safety Edge Protector and padded Safety Buffers. Flexible 'breakout tabs' bolted to each end of the leading beam.

BACK BAR & TOP SEAL

A 100mm deep steel cross-member bolted to the columns carries the top fixing brackets and provides a fixing for the top seal and brush strip damper.

SEALING & INSULATION

The standard fixing position of the Eiger Door is 200mm inboard or outboard of the opening to accommodate the 'Crash-Out & Auto-Reset' facility unique to Eiger Door. 2 off galvanized & powder coated seals infill the gap between the rear column and the Freezer wall, enclosing a 'Rockwool' filled cavity. Additional insulation provided by the fitting of a double skinned PVC, foam encapsulated, thermal jacket to the rear side guide and inside face of the side seal.

FINISH

Steel parts and bracketry degreased, blast cleaned, pre-treated with anti-corrosive primer and finished with hygienic anti-bacterial powder coating. Standard Colour: White RAL9003.

DRIVE

1.5kW foot mounted brake geared 240v single-phase motor unit drives both top rolls via a duplex chain system.

SPEED

Door opening: Variable up to 1.6m/sec (maximum).
Door closing: Variable up to 0.7m/sec (maximum).

MAX. WIDTH & HEIGHT

Maximum width – 5000mm
Maximum height – 6800mm

CONTROL

Combined with a Variable Frequency Drive for smooth starting and stopping to reduce mechanical wear the system enables safety monitoring and the precise adjustment of parameter settings to control the door under normal use. The control unit is housed in a 500mm x 500mm x 200mm deep IP65 rated cabinet, powder coated red, c/w Perspex diagnostic viewing window and externally mounted 'Open', 'Close' and 'Emergency Stop' buttons.

DEHUMIDIFIED DRY AIR CIRCULATION SYSTEM

****Patented**** A continuous flow of dry dehumidified air generated by the independent dehumidifier is circulated through the double-skinned door blades utilising the columns and a series of ducts and galleries. Spillage of the warmed and dehumidified air is designed to escape through the brush seals into the opening on the Ambient and Freezer sides to promote the reduction of ice formation around the opening and across the door threshold through the process of sublimation. The circulated air further benefits from the addition of 2 x 1kW In-Line heaters (not required for the larger 'E2K' dehumidifier) controlled by a Thermostat and Thermocouple to boost the temperature of the processed air.

SAFETY

Double 'Through Beam' Photoelectric Cells

One transmitter fitted on the face column and one fitted on the reverse side at low level, with receivers mounted on the opposite columns, inhibit the blade from closing if an obstacle is detected to the front or rear of the opening.

Double Contact Safety Edge

Low voltage electronic contact safety edge fitted to the full width of both bottom beams, immediately halts and reverses the downward travel of the door if contact is made with any obstacle. Complies with latest 'Closing Forces Test' requirements.

Manual Brake Release

In the event of power failure a pull cord is provided to release the brake lever in order to raise the door with minimal manual assistance.



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High Speed Door



Essential Characteristics	Declared Performance	Harmonised Standard
Release of dangerous substances	None	EN 13241-1:2003 + A1:2011 (89/106/EC)
Safe opening (vertical moving doors)	Pass	
Mechanical resistance and stability	Pass	
Operating forces (for power operated doors)	Pass	

Type testing conducted by: Warrington Apt
Intended for use: Internal Industrial/Commercial Use