

L20 DOORS/SHUTTERS/HATCHES 615 SECTIONAL OVERHEAD DOOR(S):

Description

Guardian – Folding Range – Achilles

Ideally suited for use in fire and ambulance stations, water and sewage treatment plants, train maintenance sheds, vehicle workshops, loading docks and all other industrial applications.

Achilles doors can be power operated (opening in under 7 seconds) using an electro-hydraulic drive system, available with a choice of safety and control options. Manual operation is effortless – one person can fully open or close a 24m² door in less than 10 seconds.

Door thickness: 52 mm.

U-value of door: 0.7W/m²/deg.C.

Weight: 18-20 kg/m².

Doors are side hung, with no bottom channel and all versions fold behind the opening, requiring minimal side and headroom. 180 mm sideroom and 150 mm headroom for both manual and power operated versions.

Fully weathersealed for low heat and very low air loss, and incorporating full height finger-nip protection between the leaves for user safety.

Key features:

Flat panel, single piece insulated construction.

Low heat and air loss.

Ultra quick operation combined with building security.

Very few moving parts – all self lubricating.

Routine maintenance does not require an expensive Repair & Maintenance Company.

Full powder coated finishes available.

Complies with latest CEN regulations.

Can be fitted into very low sideroom, low headroom openings.

Manual operation:

Side hung bi-parting door available with any combination of 1, 2 or 3 leaves folding to one or both sides. 7 configurations available: 2+0, 2+1, 3+0, 3+1, 2+2, 3+2 or 3+3. leaves.

Maximum width: 5700 mm – 3+3 configuration.

Maximum height: 6000 mm. – 2+2 configuration.

Maximum door area: 24m² - see technical literature for door configurations/max. door areas.

Furniture and locking: Low-level floor bolt and aluminium pull handle fitted internally to each leaf as standard. Passive leaves to 3+1 and 3+3 configurations fitted with full height espagnolette bolt. No external furniture.

Optional locking

Surface mounted floor or full height espagnolette bolts with integral pull handle at apex joints.

Floor Shoe: 2+2 leaf doors can be fitted with a floor shoe at the centre of the opening instead of drop bolts, so that leaves automatically engage when closed and prevent forced entry.

Odd leaf (either single leaf in 2+1, or third leaf in 3+2, etc) to be used as full height personnel door. Fitted with mortice sashlock, pair of black Hewi lever handles and external cylinder.

Electric operation:

Side hung fast acting bi-folding door available with 2 leaves folding to one or both sides.

Maximum widths: 2+2 - 4750 mm, 2+0 – 2350 mm.

Maximum height: 6000 mm.

Maximum door area: 24 m².

Power Operation: FAAC 560 electro-hydraulic drive unit is mounted at high level on each pair of leaves. Telescopic drive arm fitted between operator and jamb. FAAC 455D programmable control panel with Run-Stop push button.

Power requirements: 240V, 50 Hz, Single Phase.

High-level hydraulic lock within operator holds door securely in open or closed positions. Manual release screw on drive body enables manual operation. Drive units fitted with built-in anti-crush device to prevent accidental crushing during closing.

Aluminium pull handle fitted to each leaf as standard.

Options:

Low-level manual release system for emergency manual operation of door.

Low-level floor bolts for additional security - interlocked to drive system.

Optional control equipment:

ATR - automatic timed return. Door will close automatically after a preset pause period (must have a photocell or safety edge if operation set for ATR)

Key lockable switch.

Digi-key pad – 4056 combinations.

Infra-red remote control.

Induction loops (one or both sides of opening).

Optional Safety Features

Send and Receive photocell.

Pneumatic Safety Edges in leading edges – full height.

Standard finishes:

External sheet in factory finished Dobel 200XT Plastisol in choice of 7 colours, White, Goosewing Grey, Cornflower Blue, Ocean Blue, Olive Green, Poppy Red or Golden Yellow. Internal sheet in Dobel 200XT Plastisol in White. All hardware is anodised aluminium / zinc plated as standard. Aluminium trims are mill finished.

Optional finishes:

External sheets to be Polyester Powder Coated to any RAL colour, or,
Both sheets and all hardware and aluminium trims to be Polyester Powder coated to any RAL colour, or,
Both sheets to be finished in pre finished galvanised steel sheets.

Wicket Door:

Outward opening with mortice sashlock, low-profile lever furniture and external cylinder. 1½ pairs stainless steel hinges and with hidden overhead door stay.

Options: Emergency escape wicket - as above, but with internal panic bar.

Vision Panels:

Acrylic - 680 x 390 mm double glazed toughened acrylic in black plastic security frame with square corners.
Toughend Glass – 680 x 500 mm double glazed toughened glass in black aluminium frame with 60 mm radiused corners.
Both can be mounted horizontally or vertically, depending on panel width. Maximum 2 vision panels per leaf.

Sub-Frame:

Door must be fixed to a flush steel goalpost frame - not included as standard.
Face fixed - 125 x 75 x 8 mm steel angle goalpost frame for fixing to the back of a brick or blockwork opening. Prime finished.
Between walls - 200 x 100 x 5 mm steel box section frame for fixing between brick or blockwork opening. Prime finished.
Optional finish – full polyurethane paint finish to match door colour.

Top track and guide rollers:

Top guide track: 50 x 50 x 3 mm galvanised channel mounted with adjustable steel brackets.
Top guide rollers: 42 mm diameter nylon guide wheels running on 16 mm diameter stainless steel shafts mounted in anodised aluminium fittings.

Threshold:

A 120 x 10 mm full width galvanised steel threshold plate is fitted to the floor on external doors to prevent water ingress and to protect bottom seals during. Both edges can be chamfered as an option. A bottom channel is not required.

Seals:

EPDM rubber seals are fitted at threshold, jambs and all joints between leaves. A brush seal is fitted at the head. All vertical joints provide full finger trap protection and the overall door is fully weather sealed. 35mm brush seals to be fitted at the floor when threshold not required.

Hinges:

The door weight is carried at the jambs, on purpose designed hinges, which offer both sideways and vertical adjustment of leaves. Apex hinges are extruded anodised aluminium fittings with 16 mm diameter stainless pins. Bottom apex hinges allow vertical adjustment of leaves. All hinges have self-lubricating Igus bushes.

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Product reference: Folding Range – Achilles Sliding Folding Door.

Performance: Consult with Guardian Industrial Doors Ltd for recommendations and details.

Arrangement: Side-hung, insulated bifold door;

Configuration: Two / Two+Two / Three / Two+One / Three+One / Three+Two / Three+Three
Leaves to one side / Leaves to each side

Opening size: Up to 5.7 metres wide and up to 6 metres high. Maximum size 24m². Consult with Guardian Industrial Doors Ltd for maximum opening sizes for each configuration.

Track system:

Top guide track: 50 x 50 x 3 mm galvanised channel mounted with adjustable brackets.
Top guide rollers: 42 mm diameter nylon guide wheels running on 16 mm diameter stainless steel shafts set in anodised aluminium fittings.
Threshold plate: 120 x 10 mm standard / chamfered galvanised steel threshold plate fitted to the floor on external doors to prevent water ingress.
Floor shoe: Floor shoe at centre of the opening. (2+2 doors only)

Door leaf:

Thickness: 52 mm.

Frame:

Steel frame by others.
125 x 75 x 8 mm steel angle goalpost frame for fixing to the back of a brick or blockwork opening. Prime finished.
200 x 100 x 10 mm steel angle goalpost frame for fixing between brick or blockwork opening. Prime finished.

Hinges:

Jambs hinges to allow both sideways and vertical adjustment of leaves.
Apex hinges to be extruded anodised aluminium fittings with 16 mm diameter stainless pins. Bottom apex hinges to allow vertical adjustment of leaves.

Seals:

EPDM rubber seals fitted at threshold, jambs and all joints between leaves. A brush seal is fitted at the head. All vertical joints provide full finger trap protection and the overall door is fully weather sealed.

Finish as delivered: Select from:

200XT Plastisol outside; Colour: choice of 7 colours (consult with Guardian Industrial Doors Ltd for availability of colours and to obtain samples), 200XT Plastisol inside; Colour: White

Polyester powder coated outside; Colour: RAL (choice of any RAL colour), including external hinges and trims, 200XT Plastisol inside; Colour: White

Polyester powder coated both faces in RAL ; Colour: (choice of any RAL colour), including all hinges, handles and trims
Galvanised steel sheets to both faces

Operation:

Manual operation – (all configurations can be manually operated)

Electric operation – (only 2+0 and 2+2 configurations) using FAAC 560 electrohydraulic operators, c/w FAAC 455D control panel and Run / Stop push button.

Power requirements: 240V, 50 Hz, Single Phase

Optional power operation equipment:

Low level manual release system

ATR - automatic timed return (if ATR selected, door must be fitted with Photocell or Safety Edge)

Send Receive Photocell

Pneumatic Safety Edge

Extra push button station

Key lockable switch

Digi-key pad

Infra-red remote control

Induction loops (one or both sides of opening)

PIR detector

Ironmongery:

Manual Operation:

Drop bolt and pull handle to each leaf (as standard)

Full height espagnolette bolt to passive leaf (3+1 and 3+3 leaf configurations only)

Full height espagnolette bolt to each pair of leaves (optional in place of drop bolts)

Hewi lever furniture to odd leaf

Consult with Guardian for further details

Power Operation:

Drive motor holds door closed (standard)

Lever operated floor bolts interlocked to drive system

Other requirements:

Wicket Door - Outward opening with mortice sashlock, low-profile lever furniture and external cylinder

Wicket door with panic bar and external cylinder

Vision Panels:

Size: 680 x 390 acrylic vision panels / 680 x 500 toughened glass vision panels with radiused corners

Mounted: Vertically / Horizontally