

Osprey product datasheet

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	Manually operated door	Electrically operated door
Type of Door	<p>Top hung, flat panelled, multi leaf folding doors. Doors can either be fully floating or hinged at one jamb (1-way), or both jambs (bi-part) jambs. Leaves can either hang on the back of the opening, or between the reveals, and fold inwards at 90°.</p> <p>Refer to drawings listed below for details and dimensions of individual configurations:</p> <ul style="list-style-type: none"> • OSP-F1M-5101 (fully floating 1-way) • OSP-F2M-5102 (fully floating bi-part) • OSP-H1M-5103 (hinged 1-way) • OSP-H2M-5104 (hinged bi-part) • OSP-F1CM-5108 (fully floating 1-way) • OSP-F2CM-5109 (fully floating bi-part) 	<p>Top hung, flat panelled, multi leaf folding doors. Doors can have between 3 to 10 leaves folding to one jamb (1-way), or both jambs (bi-part). Leaves hang on the back of the opening, stack clear of the reveals, and fold inwards at 90°.</p> <p>Refer to drawings listed below for technical details of individual configurations:</p> <ul style="list-style-type: none"> • OSP-F1P-5105 (1-way) • OSP-F2P1-5106 (bi-part, 1 motor) • OSP-F2P2-5107 (bi-part, 2 motors)
Osprey standard details		
	Manually operated door	Electrically operated door
Technical Details	<p>Max width 20000mm. Max height 6000mm⁽¹⁾. Panel thickness 52mm. Panel U-value 0.40 W/m²/°C. Sideroom required – refer OSP5100 series drawings. Headroom required - 180mm. Weight of door 20-24kg/m².</p>	<p>Max width (1-way) 10000mm⁽¹⁾. Max width (bi-part) 20000mm⁽¹⁾. Max height 6000mm⁽¹⁾. Max door area 50m² (1-way) 100m² (bi-part) Panel thickness 52mm. Panel U-value 0.40 W/m²/°C. Sideroom required – refer OSP5100 series drawings. Headroom required 230mm. Weight 20-24kg/m². Power supply 400V 3PN, 50Hz Opening speed upto 0.4m/s. (folding 1-way). 0.8m/s (bi-parting).</p>
Performance	<p>Performance in accordance with BS EN 13241-1:2003 (based on original Osprey tested Aug'05)</p> <ul style="list-style-type: none"> • Forces for Manual Operation – Pass. • Operating Forces – Pass. • Air Permeability – Class 2 (without wicket door) • Water Penetration – Class 3 (without wicket door) • Durability of Performance – Pass (55,000 continuous cycles in 5 weeks). • Life expectancy – more than 20 years. • Wind pressure⁽²⁾ - 0.7kN/m² (Class 3 - 6m high door), 1.1kN/m² (Class 5 - 5m high), 1.7kN/m² (4m high door), 3.1kN/m² (3m high door). <p>Acoustic performance of the panel – Average weighted SRI, RW Index tested at 29dB. Overall door 25dB.</p>	
Panel Construction	<p>Panels are constructed from 1.6mm thick cold rolled galvanised dovetail channel frames with spot-welded and mitred corners with L bracket stiffeners and 5mm thick local reinforcement for hardware. The frame is covered on both sides with 0.7mm thick galvanised steel sheets and pressure injected to all corners with 50kg/m³ CFC-free polyurethane foam to form an extremely strong, rigid, flat panel.</p>	
Seals	<p>Flexible rubber seals are fitted to all edges of the door, and between door leaves. All seals are purpose-designed EPDM extrusions, which press into, and blend seamlessly with the door panels. Each seal provides full finger trap safeguarding, and excellent protection against weather, dust and sand.</p>	

Note (1) – Maximum width of 10000mm (1-way) or 20000mm (bi-part) for electrically operated doors are subject to the maximum door area of 50m² (1-way) and 100m² (bi-part). Maximum height for odd-leaf configurations (ie, 3, 5, 7 or 9 leaves per half) is 3800mm for manually operated, or 4500mm for electrically operated.

Note (2) – Wind pressure capacities are based on panel strengths derived from physical tests carried out in the factory. Calculations given are for standard panel construction with 0.65mm skins, without cutouts for windows, and with each panel supported at all four corners. Greater wind pressures can be withstood using thicker door skins, and with additional panel reinforcement. For further advice on wind pressures please consult the manufacturer.

Top and Bottom Tracks and Gear	<p>The top track is a 5 mm thick pressed steel ‘C’ section for direct sidewall mounting. Painted in 100µ 2-pack epoxy primer. Pendant hangers are heavy-duty fabrications, each with a Ø72 mm sealed bearing wheel, two Ø40 mm side thrust sealed bearing wheels and a Ø20 mm toughened steel shaft. Each pendant is vertically adjustable.</p> <p>The bottom guide channel is a 3 mm thick galvanised steel pressing with built in threshold and chamfered edges. Bottom guides are Ø35 mm nylon rollers running on Ø16 mm stainless steel shafts.</p>
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Intermediate Hinges	Apex hinge pairs are machined from solid aluminium extrusions, fitted with sealed for life Igus bushes and 16mmØ stainless steel hinge pins. A concealed peg ensures that the hinge pins cannot be removed from the outside. Hinges are finished in black polyester powder coat to RAL 9005(M).
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	Osprey standard details and available options	
	Manually operated door	Electrically operated door

Finish ⁽³⁾	<p><u>Standard</u> Outside face - choice of 8 stock colours: Colorcoat® LG Plastisol in Poppy Red, Solent Blue, Ocean Blue⁽³⁾, Olive Green⁽³⁾, Goosewing Grey, Merlin Grey⁽³⁾ and White, or Colorcoat® Prisma in Silver Metallic. Inside face – Colorcoat® LG Plastisol in White. All hinges and drop bolt sleeves are black polyester powder coated in RAL 9005(M)</p> <p><u>Option 1</u> Outside faces of panels are polyester powder coated in a choice of 40 stock RAL colours. Inside face in LG Plastisol in White. All hinges and drop bolt sleeves are black polyester powder coated in RAL 9005(M).</p> <p><u>Option 2</u> Inside and outside faces of panels are polyester powder coated in a choice of 40 stock RAL colours⁽³⁾. All hinges and drop bolt sleeves are black polyester powder coated in RAL 9005(M).</p>
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Vision Panels	<p><u>Standard</u> - None fitted.</p> <p><u>Option 1</u> Black thermoplastic ‘snap-lock’ window with integral double-glazed units (2.5~15~2.5) SAN RS UV (scratch and UV resistant) outside, PMMA UV inside. Overall frame size 770mm x 430mm. ⁽⁴⁾</p> <p><u>Option 2</u> Thermally broken aluminium window frame with one-piece inner liner tray. Window units are double glazed (4~20~4), argon filled, low E toughened glass. Frames are polyester powder coated in matt black to RAL 9005(M), fully sealed, and available in a choice of frame sizes as follows: 400mm x 600mm, 600mm x 600mm, 400mm x 1200mm, 600mm x 1200mm.</p>
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Wicket Door	<p><u>Standard</u> None fitted.</p> <p><u>Option 1</u> Lever furniture. Wicket door opens outwards. Hardware comprises a Briton 5520 mortise sashlock, 25mm low-profile anodised aluminium lever handles, external Europrofile cylinder with internal thumbturn, 1½ pairs of stainless steel butt hinges and a hidden door limiting stay. 85mm high step with 40mm wide aluminium threshold strip.</p> <p><u>Option 2</u> Emergency escape furniture. Wicket door opens outwards. Hardware comprises a Briton 379 panic bar, external override cylinder and finger latch, 1½ pairs stainless steel butt-hinges and a hidden overhead door limiting stay. 85mm high step with 40mm wide aluminium threshold strip.</p>
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Note (3) – Dark colours. It is recommended that any door panel, which is exposed to direct sun, i.e., East, South or West elevations, should be finished in a lighter colour. The insulation properties of the panel are so good that, if darker colours are used, the surface temperature of the panel can become unbearably hot, and the outer skin may occasionally bubble or ripple due to tiny air pockets within the panel. Taller panels may temporarily bow slightly until the temperature falls. This phenomenon is purely aesthetic and does not affect the structural integrity of the door. For further advice on colour selection please consult the manufacturer.

Note (4) – Due to the hygroscopic nature of the SAN sheets, used in 'Option 1' Vision Panels, moisture condensation and possible water accumulation may develop within double glazed units during certain atmospheric conditions. These effects should reverse during a change of weather conditions; however, water leakage through the window unit will not occur.

<p>Locking and Handles</p>	<p><u>Standard</u> A drop bolt and a black thermoplastic easy-grip pull handle are fitted internally.</p> <p><u>Option 1</u> A top and bottom espagnolette shoot bolt operated via an internal, non-lockable lever handle is fitted in lieu of a drop bolt and pull handle.</p>	<p><u>Standard</u> Drive motor(s) automatically lock the door in the closed position. A black aluminium pull handle is fitted internally to each leading edge to enable hand operation.</p> <p><u>Option 1</u> A lever operated floor bolt is fitted internally to each door half and is electrically interlocked.</p>
<p>Hinge / Slam Post</p>	<p>A steel hinge post is supplied with all hinged at the jamb doors. This comprises a 90 x 100 'L' post assembly painted black and supplied with matching flashings, EPDM seal and all fixings for assembly and mounting to the structure.</p> <p>A 100 x 65 RSA slam post is supplied with all doors with even number of leaves and folding to 1-side. The post is painted black and supplied with fixings for mounting to the structure.</p> <p>A 90 x 50 steel box section is supplied with all doors with odd number of leaves folding to 1-side. The post is painted black and supplied with fixings for mounting to the structure.</p>	<p>A 100 x 65 RSA slam post is supplied with all doors with even number of leaves and folding to 1-side. The post is painted black and supplied with fixings for mounting to the structure.</p>
<p>Odd Leaf Hardware</p>	<p><u>Standard</u> The active leaf to be used as a full height pass door. Hardware comprises a Briton 5520 mortise sashlock, a pair of black Hewi lever handles, external Europrofile cylinder and internal thumbturn.</p> <p>Note: maximum door height 3800mm for odd leaf doors.⁽¹⁾</p> <p><u>Option 1</u> A drop bolt and a black thermoplastic easy-grip pull handle are fitted internally.</p> <p><u>Option 2</u> A top and bottom espagnolette shoot bolt operated via an internal, non-lockable lever handle is fitted.</p>	<p>Not applicable.</p>
<p style="text-align: center;"> </p>		

Osprey standard details (electrically operated doors only)

Drive System

A GfA 91RD3 with built on frequency converter, or GfA 140Fi with built on frequency inverter drive motor operates the door. Both have digital encoders. The motor is mounted at the end of the top track as standard, or above the track if limited sideroom, and is connected to the leading edge pendant hanger(s) via a continuous overhead drive chain. The folding action of the leaves is achieved via a built in throwout track arrangement fixed to the top track.

A TS971 digital control system featuring digital limits set from ground level, integrated wireless safety edge, variable speed programming, cycle counter and door status / fault display, two programmable relay contacts and integrated radio receiver is supplied as standard. Open / close / stop push buttons are mounted on the IP65 control panel.

Larger bi-parting doors (>50m²) are fitted with two motors and two control panels. Each motor and control panel will operate one door half independently of the other. Please specify if simultaneous operation is required.

Drive motors are fitted with low-level haul chains for instant manual operation in the event of power failure.

Drive motors and control panels are pre-wired with a 3m, 5m or 7m SWA cable, and fitted with a 5-pin euro-socket to plug directly into a 5-pin socket.

Control Logic

Standard

Deadman - continuous push to open, continuous push to close. This logic must be used unless a Safety Edge is installed.

Option 1

Semi-automatic - Single push to open, Single push to close. Stop button stops door. ⁽⁵⁾

Option 2

Automatic – Single push to open, automatic closing after pre-set pause time (between 1 – 240 seconds). Stop button stops, and holds doors. ⁽⁵⁾

Safety Features

Safety Edges (with Control Logic Option 1 & 2)

A full height wireless opto-electronic safety edge is mounted within the leading edge seal(s) of the door. An impact on the edge during closing will automatically stop and re-open the door. The safety edge is continuously monitored so the door cannot close automatically in the event of damage or failure of the edge. A low-battery warning audible alarm will advise when the battery needs to be replaced.

Opening Safety Sensors

Infrared presence detection sensors are fitted to the inside face of the trailing edge leaf to each door half to prevent the door impacting / crushing a person or object during movement. Active infrared detectors are fitted externally above the opening at each side of the door, and internally at high level on the inside of the door's bunching area to prevent the door impacting / crushing a person or object during movement. In the event of any detection during door movement, that door half will stop.

Osprey optional items (electrically operated doors only)

Safety Features

Safety Edges (with Control Logic Standard)

A full height wireless opto-electronic safety edge is mounted within the leading edge seal(s) of the door. An impact on the edge during closing will automatically stop and re-open the door. The safety edge is continuously monitored so the door cannot close automatically in the event of damage or failure of the edge. A low-battery warning audible alarm will advise when the battery needs to be replaced.

Photocells

A FAAC XP15W send / receive photocell is fitted across the opening. The receiver unit is fitted with a long-life battery to avoid hard wiring. Photocells can be fitted for closing safety, opening safety, or a combination of opening and closing. If a closing safety beam is broken during the closing cycle, the door will automatically stop and re-open. If an opening safety beam is broken during the opening cycle, the door will automatically stop.

Traffic Lights

A red and green 24V DC LED traffic light unit is fitted. The unit is sized 370mm x 190mm with 24 LEDs to each light. Sequence of operation is Red light on when door closed or part closed, Green light on when door fully open.

Safety Barrier

A steel RHS safety barrier is supplied to cordon-off the leaf folding area from personnel, vehicles, etc, and protect the door bunch in the open position. The barrier can also be used to mount push buttons, photocells and traffic lights. Posts are painted yellow for maximum visibility.

Operational Controls

Push Button – Additional Open / Close / Captive Stop push button unit.

Keyswitch – Sprung return keyswitch in separate enclosure for operation of the door by keyholders only. For internal or external use.

Digi-key – Bewator K42 stainless steel code lock digi-key pad for operation of the door by authorised persons only. For internal or external use.

Radio Control – 868MHz radio control system for remote operation of the door from a vehicle or control room. FAAC Plug-in radio receiver supplied with 1 twin channel transmitter. Additional transmitters available for multi-user systems.

Movement Sensor – A Falcon radar movement sensor is mounted at high level, which will open the door on detection approaching traffic, or close the door on detection of retreating traffic. Using microwave technology, the sensor is adjustable so as to ignore pedestrians, or parallel traffic. *Please note: maximum opening height is 5m for microwave sensors. Additional sensors may be required for openings >5m wide.*

Note (5) – Control logic. In accordance with BS EN 12453:2001, a safety edge and photocell, or safety edge must be installed for semi-automatic (Option 1) or automatic closing (Option 2).



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