



## **Forster Presto 50 & 60 Series (Non fire rated & E30 to E120)**

### **System Provider:**

Fraser Global Trading (Pty) Ltd, South Africa.

### **Manufactured by:**

Manufactured by Forster approved Fabricators, list of fabricators available from above contact.

### **Product reference:**

Forster Presto is a complete profile system with fittings and accessories for flush fitting doors and windows. Presto is a non thermally broken profile system, but is suitable for fire integrity only applications as well as smoke control solutions. Forster Presto 50 has a product depth of 50mm, both in steel and stainless steel. Presto 60 is available in steel only with a limited range of profiles and a product depth of 60mm to allow thicker glass/panel sizes and also stability for larger opening units.

### **General Use (non fire):**

#### Doors

Can be used for single & double leaf single acting doors, inward or outward opening as well as double acting doors .

#### Windows

For use with side-hung, top-hung & bottom hung applications, inward or outward opening. Tilt & turn Windows for inward opening use only.

#### Fixed Screens

Can be used in a variety of solutions for fixed screen applications

### **General Use (Fire Integrity Only):**

#### Doors

Can be used for single & double leaf single acting doors, inward or outward opening, along with double acting doors. Fire integrity ranges from E30 to E180, dependant on relevant test data, please contact for advice. All test data complies with BS476 or BS-EN 1634.

All fire doors must be self closing to comply with current fire regulations, unless the doors are double acting from the Forster range of Double Acting Doors.

#### Windows

Windows have not specifically been fire tested. Unless windows are self closing, fire integrity rating cannot be offered. Windows have not been fire tested with automatic smoke/fire control systems, should this be a requirement please contact a Forster technical Advisor and the local Fire Officer to discuss.

#### Fixed Screens

Can be used for fire integrity only from E30 to E60 in a variety of solutions for fixed screen applications, please contact for advice.

### **General Use (Smoke Control Only - Presto 50):**

Presto has been successfully tested for flush fitting single & double smoke resistant doorsets according to the DIN 18095 (RS-1 & RS-2) as well as for E30 doors and fixed lights.

### **Materials:**

#### Steel (Presto 50 & 60)

Profiles are supplied in Black finish or Pre-Galvanized (GV-VC yellow chromated) finish.

***Distributed exclusively by Fraser Global Trading (Pty) Ltd***

***Unit 1 Meadowbrook Park, 110A North Reef Road, Wilbart, Germiston***

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### Stainless Steel (Presto 50)

Profiles are available in mill finish Stainless, to 304 & 316 standard. Profiles can be finish polished to various requirements

### **Construction method**

Doors and windows are to of fully welded construction, spigot joints can be used for multiple screens or combinations frames.

### **Fabrication Tolerances:**

Frames, doors and windows are to be manufactured within the following tolerances, these are to be +/- 1.5mm in height and width, and +/- 4mm diagonally.

### **Pre finish**

#### Internal applications

Doors, Frames & screens can be etched primed, Two-Pack primed or Zinc rich primed prior to powder coating.

Depending on requirements, components can also be shot blast zinc sprayed or hot dip galvanized prior to painting.

#### External application

Doors, Frames & screens can either be shot blast & zinc sprayed or hot dip galvanized prior to powder coating.

### **Finish:**

Standard finish to be Polyester powder coated to RAL/BS.....

### **Glazing details:**

#### Non Fire

Single or Double glazed units can be accommodated by Presto 50 series. Standard minimum glass thickness of 6mm is recommended and the maximum glass thickness is 34mm (44mm Presto 60) using various standard Forster clip-on bead designs in both steel and aluminium. Glasses can be of toughened or laminated in nature or of specific requirements.

#### Fire integrity

Single or double glazed units can be accommodated for fire integrity requirements. Minimum glass thickness will be 6mm and a maximum of 25mm for double glazed units.

Examples of fire glass used in Forster fire tests are 6mm Pyran & 6mm Pyroswiss, and a double glazed unit comprising 6mm InterflamE/8mm air gap/6mm Toughened. Other combinations are also available incorporating low 'E' glasses and tints. Only glasses that have been fully tested for fire integrity may be used.

In certain instances maximum sizes to glass apply for both doorleaves and fixed elements. If in doubt please consult.

### **Panel details:**

#### Non Fire

Various constructed panel variations can be incorporated with the Presto system, and these can be made from steel faced two panel trays, flat steel/plastic sheets or timber panels.

#### Fire integrity

Panels can be constructed to achieve fire integrity. These need to be as a minimum, each wall thickness of 2mm steel and with a rockwool infill (minimum 120kg/m<sup>3</sup>).

As a guide, the panels can be welded to the face of the profiles by slug welding or by crush folding top and bottom to produce a profile flange, welding to the profile in the glazing areas.

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## **Ironmongery:**

### General

Presto doors and windows are designed to utilize a full range of Forster hinges, which are available depending on choice or application. Hinges are either screw fixed to the door/frame or are welded to the door/frame.

Depending on test data, Forster Dog Bolts (917013) must be used to comply with fire test requirements for ironmongery.

Presto doors can also be mounted on suitable floorsprings, either offset or centre located dependant on profiles used and on application required.

A full range of locking devices are available depending on application required, and include a range of latch/deadlocks with and without two/three point locking along with a complimentary range of lever handles. A range of panic latching devices as well as an emergency escape range is also available, along with a range of flush bolt locking mechanisms. Forster also offer a fully fire tested emergency panic push bar option with anti-panic function.

Various overhead and internal door closers can be fitted to the Presto range of doors including automatic opening, smoke detection and selector controlled devices, available from companies such as Dorma or Geze. Doors closers should be tested to the relevant BS or EN standards for fire.

### Fire

When specifying and using fire integrity doors, certain ironmongery must be used to comply with the fire test data. Those items must always be Forster hinges, Forster locking mechanisms and (unless it is a double acting door) a tested door closer to the relevant BS or EN standard, usually from the Dorma/Geze ranges. To ensure compliance please contact our Forster Technical Advisor or distributor.

## **Accessories:**

Because Presto can be used in a multitude of applications, such as fire or security, various types of accessories can be used. For example, electric lockstrikes or magnetic locks can be easily fitted for security applications or full door entry solutions with automatic detection and opening.

## **Fixing of ironmongery/accessories:**

Fixing of ironmongery and accessories is to be by machine screws wherever possible, drilled and tapped to size as per manufacturers stipulation wherever possible. This is critical for fire integrity units to maintain correct performance in case of attack by fire.

Self tapping screws or nutserts may be used for retaining certain ironmongery accessories that are non critical in fire situations, such as roses or escutcheons.

With pull handles utilize concealed back to back fixings, or if a handle is fitted to one side then ensure it is secured by machine screws. All other fixings to be as recommended by the supplying ironmonger or by the fabricator.

## **Frame fixing to structure:-**

Fixing of frames can be achieved in several ways. The most common detail is by having the fixing screws/bolts through the centre of the frame profile and into the structure, with the fixing either being covered by a cap or by the glazing detail.

The second most common detail is by attaching (screwing or welding) a bracket or strap to the frame and then fixing through the strap/bracket into the structure, which is then covered by plasterboard or render etc. When fixing into concrete/stone/brick type material it is recommended that fixings should be at least 50mm in from an edge to prevent breakout of the structure/fixing.

Typical fixings include woodscrews, plug & screw combinations, expanding anchors, machine screws/bolts, and chemical fix.

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