

## ***INDIGATECH CERTIFICATION SCHEDULE***

for

### **FORSTER PRESTO GLAZED DOORS & SCREENS UTILISING FORSTER HOLLOW STEEL COMPONENTS GLAZED WITH SCHOTT PYRAN S**

This Schedule should be read in conjunction with Certificate No. **IFCC 1086**

**1. The following door and screen configurations are approved:**

- Double-leaf, single-action doors
- Single-leaf, double-action doors
- Double-leaf, double-action doors
- Glazed screen/partitions
- Doors incorporated within continuous glazed screen/partitions

**2. The following options are approved for the above configurations**

- i) Forster Presto series mild steel profiles
- ii) All fully glazed using the glass types referred to in Sections 4 to 6 of this Schedule
- iii) Options of single-glazing and double-glazing glass
- iv) Size variations for both doors and screens with regard to 60 and 120 minute integrity requirements in accordance with BS 476: Part 22: 1987.



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**Director, IFC Certification**

**23 June 2013**

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Schedule No: IFCC/1086/SO1

Certificate No: IFCC 1086

**3. Forster Presto profiles, door hardware and edge seals approved for glazed doors and screens**

All Forster Presto profiles are manufactured from 1.5mm thick folded mild steel and are 50mm deep x 50mm wide with clip-on beading.

**3.1 Forster Presto 60 Series profile types**

Presto Code	Section Type	Specification
32.800	Frame steel profile	50 x 50 (+20) x 1.5mm single flange
32.803	Leaf/frame steel profile	50 x 50 (+20) x 1.5mm two flanges
32.805	Leaf/frame steel profile	50 x 50 (+20) x 1.5mm alternate flanges
32.855	Leaf/frame steel profile	50 x 50 (+20) x 1.5mm single flange & base
901246	Glazing bead	20 x 30mm (w x h)
901577	Glazing bead stud	Ø = 3.5mm
	Glass edge seal	Ceramic tape: Kerafix Fexlit 15 x 5mm
905307	Door glazing seal	Rubber weather stripping for door
503002	Fixing screws	SXR 8x120T zinc plated
907622	Door hinge set	
907611	Door hinge set	2D-Band Simons
907664	Door weld-on hinge	20mm Ø x 190mm long
907351	Door handle	45 x 190 x 21mm
907233	Lockset	Forster 28 x 320mm
917906	Single point lockset	Mortice deadlock

Refer to Figures 01 for details of the profiles used for doors and screens.

All glazing beads are folded from 1.5mm thick mild or stainless steel into 20mm wide glazing beads. The glazing beads clip on to 901577 studs inserted into the steel profiles at maximum fixing centres of 450mm.

### ***3.2 Door leaf assembly and seal system***

The steel profiles comprising the door leaf framing are cold-formed and incorporate 20mm wide flanges. These flanges either provide one side of the glazing pockets or form the door leaf stop. The glass panes are retained by glazing beads are clipped onto the studs inserted into the steel frame profiles with the glass edges protected on both faces by ceramic fibre tape adhered to the inner flange and beading faces. The door leaf sub-frame profiles are welded together at the corners.

These doorsets may be hung on heavy-duty hinges or installed on floor spring closers, and are latched. An intumescent seal system is used to seal the door leaves if exposed to a fully developed fire.

A horizontal section of a typical door leaf assembly is shown in Figure 02.

### ***3.3 Screen assembly***

The steel profiles comprising the glazed screen/partition framing are cold-formed and incorporate 20mm wide flanges which form one side of the glazing pockets. The glass panes are retained by glazing beads are clipped onto the studs inserted into the steel frame profiles with the glass edges protected on both faces by ceramic fibre tape strips adhered to the inner flange and beading faces. The glazed screen profiles are welded together at the corners.

### ***3.4 Installation and supporting construction***

The glazed doorsets and screens/partitions may be fastened directly to the floor, structural soffit and a rigid supporting construction, e.g. concrete, blockwork or masonry. Door leaves may also be incorporated with side panels and/or overpanels of the construction referred to in 3.3, form a glazed doorset within a continuous run of glazed partitioning, or be installed abutting other doorsets of the same type.

Frame fastenings which are suitable for the construction substrate (e.g. expanding anchor bolts for concrete) should be used, with maximum fixing centres of 450mm.

### **3.7 Door hinges (hinged doors only)**

Steel butt hinges, dimensions 60mm wide x 100mm high. The hinges, as tested, are fastened by screws.

Hinge plates may also be fixed to the frame and leaf by welding.

### **3.7 Door maximum clear opening sizes**

Single-leaf: width: 1290mm, height: 2700mm, doorset area: 3.5m<sup>2</sup>

Double-leaf: width: 2800mm, height: 2700mm, doorset area: 7.5m<sup>2</sup>

Unequal double-leaf: width: 2250mm, height: 2700mm, doorset area: 6.0m<sup>2</sup>

## **4. Schott glass system approved for glazed doors utilising Forster Presto components**

### **4.1 Schott glass type**

PYRAN S:

### **4.2 Glass configurations**

- Single glazed

### **4.3 Glazing gaskets**

The glass perimeter edges are protected and sealed by Kerafix Fexlit 15 x 5mm ceramic tape.

### **4.4 PYRAN S: glass pane sizes**

The approved maximum PYRAN S: pane sizes for doors and screens are tabulated in Section 5 of this schedule.

## 5. Tables of glass sizes approved for Forster Presto doors & screens

### 5.3 Schott Pyran S pane sizes in accordance with BS 476: Part 22: 1987

Glass/Rating	Maximum Ht (mm)	Assoc. Width (mm)	Max. Width (mm)	Assoc. Ht (mm)
Pyran S 6mm 60min FR	3157	1478	2014	2318
Pyran S 6mm 120min FR	2655	1243	1694	1948

*Note: The maximum and associated widths and heights for tabulated glass herein installed in screens are greater than the practical maximum dimensions for door leaves.*

### 5.3 Door leaf sizes

*- where Glazed with Schott Pyran S in accordance with BS 476: Part 22: 1987*

Glass/Rating	Max. leaf height (mm)	Assoc. leaf width (mm)	Max. leaf area (m <sup>2</sup> )
Pyran S 6mm 60min FR	2682	1350	2.89
Pyran S 6mm 120min FR	2682	1350	2.89

**Figure 1: Sectional details of a selection of Forster Presto profiles**

Profile Sections	Article No.	Description / Details
	32.800	Frame Profile 1.5mm thick Mild Steel (Forster)
	32.803	Leaf/Frame Profile 1.5mm thick Mild steel (Forster)
	32.805	Leaf-/Frame Profile 1.5mm thick Mild Steel (Forster)
	32.855	Leaf/Frame Profile 1.5mm thick Mild steel (Forster)

**Figure 2: Typical horizontal section of a screen using Forster Presto profiles**

