

## ***INDIGATECH CERTIFICATION SCHEDULE***

for

### **FORSTER PRESTO GLAZED DOORS WITH GLAZED APERTURES ABOVE AND TO THE SIDES UTILISING FORSTER HOLLOW STEEL COMPONENTS GLAZED WITH CONTRAFLAM LITE 60 & CONTRAFLAM DOOR LITE**

This Schedule should be read in conjunction with Certificate No. **IFCC 1127**. The scope of approval given herein is based upon Test Report 2011-Efectis-R0527[Rev1] and the Direct Field of Application given in EN 1634-1: 2008. As such, the test report and the stated standard should be consulted should clarification of any detail be required.

#### **1. The following configurations are approved:**

- Double leaf, single-action doors, opening towards or away from the heating conditions
- Door assemblies with glazed apertures above and to the sides of the door

#### **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 and 5 herein
- iii) Single-glazed glass only
- iv) Size variations with regard to 120 minute integrity requirements in accordance with BS EN 1634-1: 2008



**Ian Woodhouse**  
**Certification Director**

**Issued 01 April 2015**  
**Revised 26 June 2018**

---

The certificate and schedule are held in force by regular annual surveillance visits by IFC Certification and the reader or user should contact IFC Certification to validate its status. This certificate remains the property of IFC Certification and must be returned to them on demand.  
©IFC Certification Ltd

**3. Forster Presto profiles, door hardware and edge seals**

All Forster Presto profiles are manufactured from 1.5mm thick folded mild steel and are 50mm deep x 50mm wide with a 20mm integral flange.

**3.1 Forster Presto 50 Series profile types and other components**

| Presto Code               | Section Type                       | Specification                              |
|---------------------------|------------------------------------|--|
| 32851                     | Frame steel profile                | 50 x 50 (+20) x 1.5mm single flange        |
| 32852                     | Leaf/frame steel profile           | 50 x 50 (+20) x 1.5mm two flanges          |
| 32803                     | Leaf/frame steel profile           | 50 x 50 (+20) x 1.5mm two flanges seal     |
| 32805                     | Leaf/frame steel profile           | 50 x 50 (+20) x 1.5mm single flange & base |
| 32855                     | Leaf/frame steel profile           | 50 x 50 (+20) x 1.5mm twine flange & base  |
| 901228                    | Glazing bead mild steel            | 25 x 20mm (w x h)                          |
| 906577                    | Glazing bead stud                  | Ø = 3.5mm                                  |
| 948004                    | Glass edge seal                    | Ceramic tape: Kerafix 2000 15 x 4mm        |
| 905307                    | Door gasket/seal                   | Rubber weather strip                       |
| 907644                    | Door screw-on hinge                | Charmag                                    |
| 907662                    | Door weld-on hinge                 | Charmag                                    |
| 907326                    | Door handle                        |  |
| 907232                    | Single point lockset (active leaf) | Single mortice lock WSS                    |
| 907246, 907011 and 917028 | Flush bolt assembly (passive leaf) | Forster Flush bolt assembly                |
| 957013                    | Locking Pin                        |  |
| -                         | Door Selector                      | SR390                                      |
| -                         | Door Closer                        | Dorma TS 82 GB or GEZE TS 5000             |

Refer to Figures 01 for details of the profiles.

### ***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.

Flat mild steel stiffeners, 35mm x 6mm, are installed inside the profiles forming the base of the door leaf. Further, flat mild steel stiffeners, 35mm x 6mm and 25mm x 6mm, are installed inside the profiles forming the door leaf meeting stile running from the base of the leaf upwards, stopping just short of the latch location. The 35mm x 6mm sections are installed on the inside, towards the glazed side and the 25mm x 6mm sections are installed on the inside, towards the leaf perimeter.

Gaps are to be within the limits of those tested and reported.

The glass panes are retained by glazing beads which are clipped onto glazing bead studs installed at 70mm from the corners and a maximum of 300mm centres. The door leaf sub-frame profiles are mitred and welded at the corners.

The door leaves are hung on the stated hinges and are latched. Doors may be provided with a door closing device, or without a door closing device where self-closing characteristics are not required.

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

### ***3.3 Glazed apertures above and to the sides of the door***

The steel profiles comprising the glazed screen/partition framing are cold-formed and incorporate 20mm wide flanges. These flanges form one side of the glazing pocket. The glass panes are retained by glazing beads which are clipped onto glazing bead studs installed at 70mm from the corners and a maximum of 300mm centres. The glazed screen profiles are mitred and welded at the corners.

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

The assemblies are fixed back directly to a rigid supporting construction, e.g. concrete, blockwork or masonry at all edges with appropriate fire sealing. The double door assemblies may also be installed in a partition wall, using Forster Presto profiles with Contraflam Lite 60 and/or Contraflam Door. The maximum overall height and the maximum sizes of the panes are limited by the sizes as tested and reported.

Frame fastenings which are suitable for the construction substrate (e.g. expanding anchor bolts for concrete) should be used, at a maximum of 225mm from the corners/ends and with maximum fixing centres of 600mm.

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

The door leaves are each hung on a minimum of two steel hinges. The hinges are either screw-on or weld-on, as stated in 3.1 herein. The hinges are installed at 180mm from the top and bottom (measured from the door leaf edge to the centre of the hinge).

### **3.6 Door Locking Pins**

Locking pins, as stated in 3.1 herein, are installed between the frame and the door leaf at mid-height of the door leaf.

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

|                |   |        |
|----------------|---|--------|
|                | Maximum Width:                          | 1900mm |
|                | Maximum Height:                         | 2355mm |
| Unequal Leaves | Maximum width of active leaf:           | 1120mm |
|                | Minimum width of passive leaf:          | 870mm  |
|                | Maximum difference between leaf widths: | 250mm  |

## **4. Glazing system**

### **4.1 Vetrotech glass type**

- Contraflam Lite 60
- Contraflam Door Lite

### **4.2 Glass configurations**

- Single glazed

### **4.3 Glazing gaskets**

Kerafix 2000 15 x 4mm ceramic tape is installed at the glass/bead interface and the glass/flange interface.

**4.4 Setting Blocks**

Glass panes in the fixed openings are installed on two Gluske Flammi 12 setting blocks, each with dimensions 80mm x 5mm x glass thickness. The setting blocks are positioned at 100mm from each of the aperture corners (measured to the closest end of the setting block).

Glass panes in the door leaves are positioned using four Gluske Flammi 12 setting blocks, each with dimensions 80mm x 5mm x glass thickness. Two setting blocks are positioned at a lower corner, one 100mm from the corner at the bottom edge and one 100mm from the corner at the vertical edge. Two setting blocks are positioned at the diagonally opposing corner, one 100mm from the corner at the top edge and one 100mm from the corner at the vertical edge. All measurements are measured to the closes end of the setting block.

**4.5 Contraflam Lite 60 and Contraflam Door Lite: glass pane sizes**

The approved maximum Contraflam Lite and Contraflam Door Lite pane sizes and corresponding locations are tabulated in Section 5 of this schedule.

**5. Tables of approved glass sizes**

**5.1 Vetrotech Contraflam Lite 60 pane sizes**

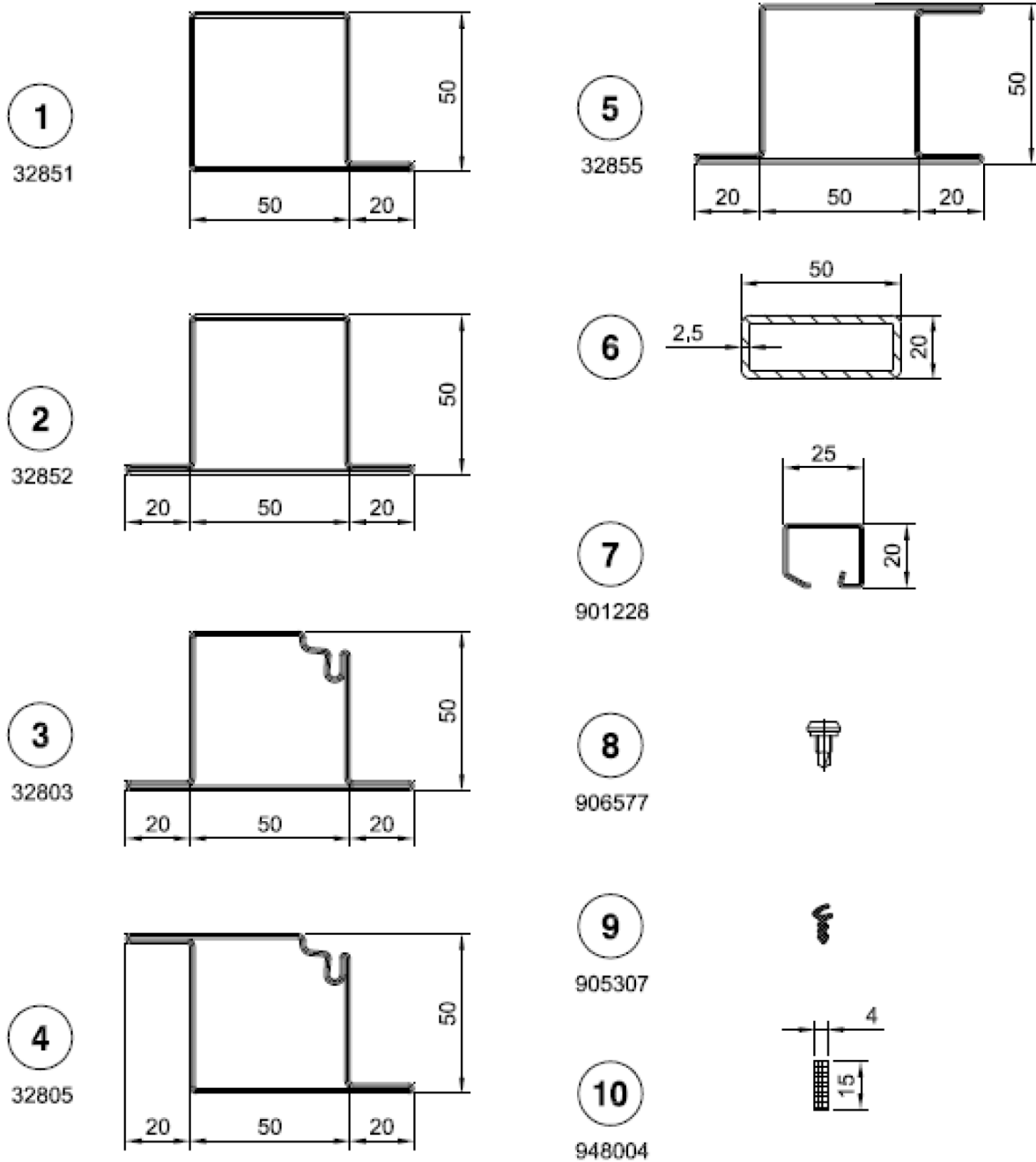
| Glass                                     | Location               | Maximum Height (mm) | Maximum Width (mm) |
|---|------------------------|---------------------|--------------------|
| Vetrotech Contraflam Lite 60 (14mm thick) | Full Height Side Light | 2896                | 1142               |

Schedule No: IFCC/1127/S01

Certificate No: IFCC 1127

**5.2 Vetrotech Contraflam Door Lite pane sizes**

| <b>Glass</b>                                      | <b>Location</b> | <b>Maximum Height (mm)</b> | <b>Maximum. Width (mm)</b> |
|---|-----------------|----------------------------|----------------------------|
| Vetrotech<br>Contraflam Door<br>Lite (11mm thick) | Door Leaf       | 2225                       | 970                        |
|   | Top Light       | 501                        | 935                        |
|   | Side Light      | 1137                       | 648                        |
|   | Corner Light    | 501                        | 648                        |



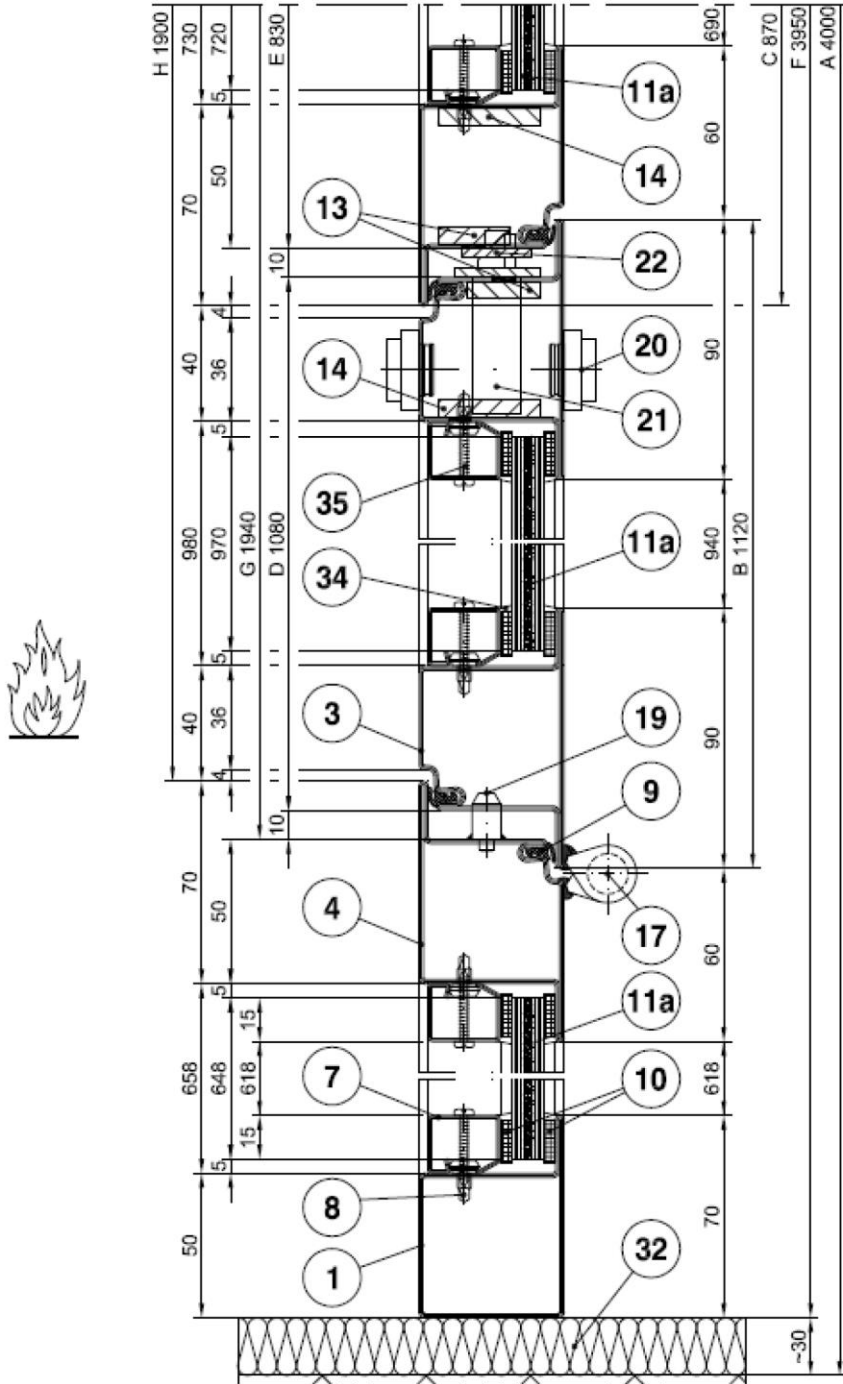
**Figure 1: Sectional details of a selection of Forster Presto Profiles**



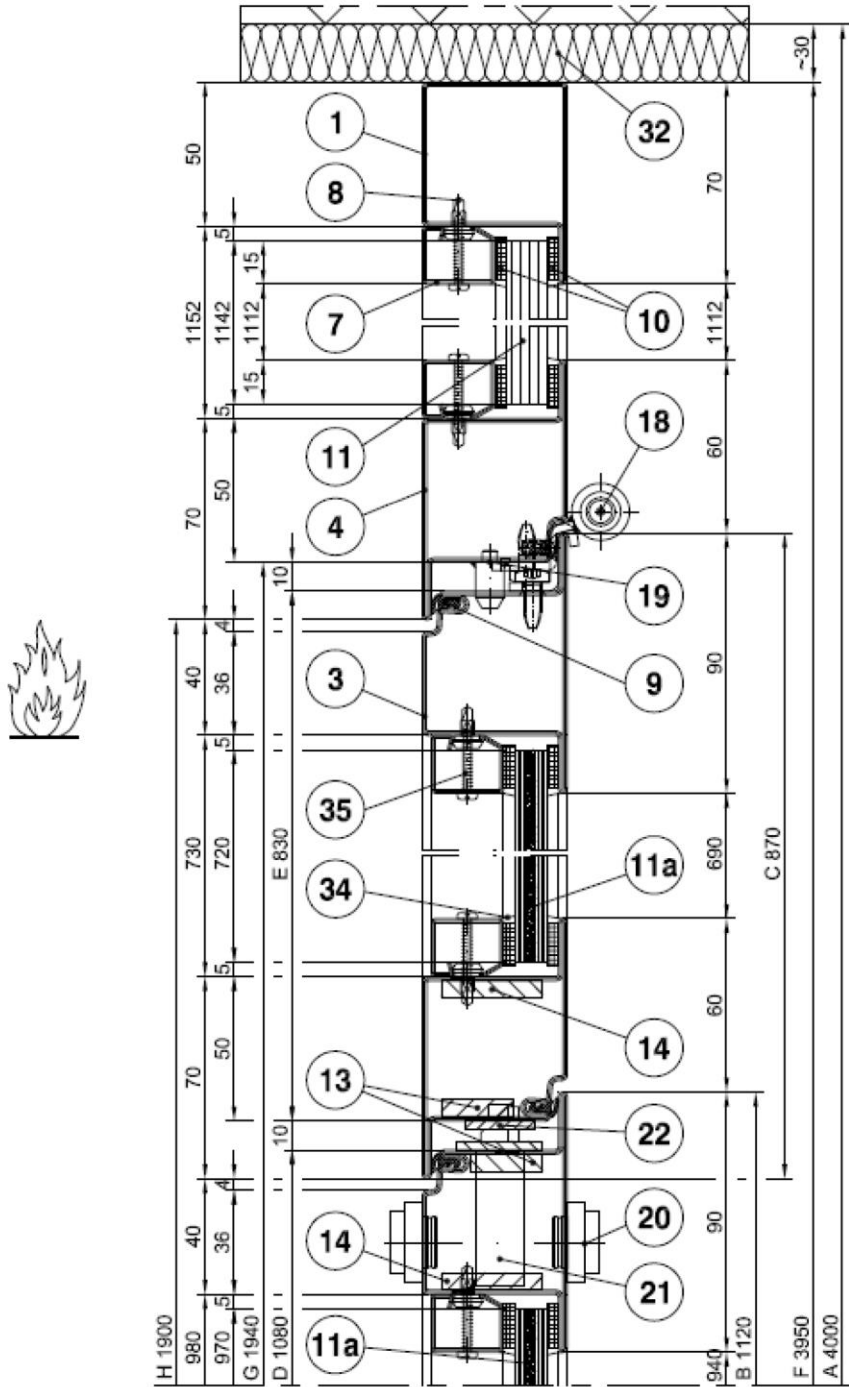
Schedule No: IFCC/1127/S01

Certificate No: IFCC 1127





**Figure 2.1: Typical horizontal section of a screen using Forster Presto profiles**



**Figure 2.2: Typical horizontal section of a screen using Forster Presto profiles (Cont)**