

## Metal Stud Partition system type – **FireCase**

Product Substantiation Report (PSR) reference – **D120001 (FC1-120)**

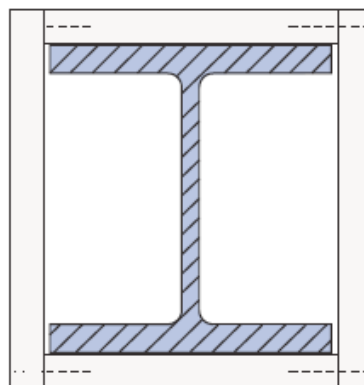
### **Performance characteristics**

Fire Protection to structural steel (BS476) : **120 minutes** (based on section factor limitations below)

Maximum boxed profile section factor  $A/V$  ( $H_p/A$ ) :  **$64.9m^{-1}$**

Fire protection to steel rating above is based on the length of time that structural steel sections of stated limiting section factors  $A/V$  ( $H_p/A$ ) are restricted from exceeding  $550^{\circ}C$  under BS476: Part 21: 1987 test criteria. The FireCase system using the components stated below is suitable for three and four sided encasement of structural steel sections (columns and beams).

Encasement offset distance from structural steel: **15mm** (to face of encasement)



### **Framing components**

Angle required for three sided encasement: **Gypframe GA1 Steel Angle**

Drawing references: Refer to relevant Architects drawings

### **Plasterboard components**

Number of plasterboard layers around encasement: **1**

|                       |                  |                                  |
|-----------------------|------------------|----------------------------------|
| Gyproc plasterboards: | Layer 1 (Inner): | <b>15.0mm Glasroc F FireCase</b> |
|                       | Layer 2          | n/a                              |
|                       | Layer 3          | n/a                              |

|                             |                  |                                       |
|-----------------------------|------------------|---------------------------------------|
| Screw fixings for boarding: | Layer 1 (Inner): | <b>40mm Glasroc F FireCase Screws</b> |
|                             | Layer 2          | n/a                                   |
|                             | Layer 3          | n/a                                   |

- All board joints installed staggered in accordance with Gyproc's current installation recommendations.
- All joints butt jointed (no additional jointing required).
- Beam encasements require additional 60mm wide cut strips of Glasroc F FireCase backing board joints across open webs of steel sections. Cut sections fixed to half-lap board joints.

- Glasroc F FireCase Screws installed at 150mm centres, fixing Glasroc FireCase F boards to each other (face through to edge)

### **Insulation components**

Insulation specification required in stud cavity: n/a

### **Finishing**

2mm **Gyproc Skimcoat** plaster (or **Carlite Finish**) applied in accordance with Gyproc's current recommendations. Tape and jointing of board joints is recommended where finishing is required.

Or

1 coat of **Gyproc Drywall Primer** prior to direct decoration (applied as soon as possible after board fixing is completed. Tape and jointing of board joints is recommended where finishing is required.

### **Qualifications**

All materials unless otherwise indicated shall be supplied by Gyproc, and shall be installed in accordance with their current published instructions and generally in accordance with all relevant Standards. Systems installed in full accordance with Gyproc's recommendations comprising of genuine Gyproc and Isover branded components qualify for the SpecSure lifetime system warranty.



### **Health & Safety**

Ensure that suitable personal protection is worn when handling Gyproc and Isover products/systems. All relevant Health and Safety Legislation and Guidelines must be followed. The relevant Material Safety Data Sheets must be referred to prior to specifying, handling or installing Gyproc & Isover products and systems.

### **Installation**

For full installation assistance refer to Gyproc Systems Solutions and Installation Guide literature which is available at [www.gyproc.ie](http://www.gyproc.ie). Alternatively contact the Technical Service department at 1800 744480 (RoI) or 0845 3990159 (NI). Full specification, detailing and site support can be offered for your project specific requirements.

### **Manufacturer**

Gyproc, Unit 4 Kilcarbery Business Park, Nangor Road, Dublin 22, Ireland