

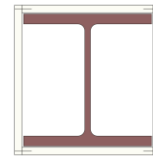
# Technical Specification

This document provides guidance on how to achieve performance and warranty requirements by exclusively using British Gypsum products or system specifications.

FireCase

## D120001 (S) (EN)

One layer of Glasroc F FireCase 30mm providing 120 minutes fire protection to steel columns up to a Section Factor A/V (HP/A) m-1 (max) of 260 at a critical temperature of 550°C.



## Background

Background	Steel Column
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The maximum permitted steel size which can be encased is 600mm.

## Framework

Perimeter framing	Gypframe FEA1 Steel Angle
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Three sided column encasement: Fix continuous lengths of steel angle to both sides of the flange abutting the wall structure, or to the wall structure itself, using suitable fire resistant fixings at 600mm centres. Alternatively, use shot-fired fixings at the same centres. Ensure face of angle is flush with edge of flange. Use additional angles where the column flange is set at right-angles to the wall structure. Fix return boards to angles and face boards to return boards using screws. Four sided column encasement: Fix boards on adjacent faces to each other. Stagger all joints by a minimum of 600mm in adjacent layers and multi-layer linings. Ensure all boards are cut square to maintain tight butt joints with no gaps, and the board-to-board edge fixings are secured into the centre of the abutting Glasroc F FireCase board.

## Board and fixings

Encasement board, Layer 1	Glasroc F FireCase 30mm
Encasement board screws (board to metal), Layer 1	Glasroc F FireCase Screws 40mm
Encasement board screws (board to board), Layer 1	Glasroc F FireCase Screws 70mm

Fix boards on adjacent faces to each other or to metal angles using screws at 150mm centres. Set screw heads flush with board surface.

## Finish coat

Finishing is not required to achieve the specified performance, but the system can be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.

## System performance

Please read performance data with any associated standards.

Fire protection (mins)	120
Maximum section factor (m-1)	260

## Standards

These standards relate to the above performance data.

BS EN 13381-4, Test methods for determining the contribution to the fire resistance of structural members: Applied protection to steel members.

## Further information

**SpecSure®** system performance warranty confirms that British Gypsum proprietary systems will perform as specified for the lifetime of the building. The **SpecSure®** warranty requires that all components are specified in full and constructed in accordance with British Gypsum's installation guidance. For more details see the British Gypsum website. Always check with the design team before making any changes to the chosen specification, ensuring appropriate substantiation is sought to confirm that the solution still meets all required project performances.