

CONSTRUCTIONAL SPECIFICATION FOR CERTIFIRE APPROVED CF5614

Introduction

This document specifies constructional and other details for Falcon Panel Products Limited FD30 doors manufactured by Falcon Panel Products Limited and certified by CERTIFIRE under certificate No. CF5614. Only doors complying with the details of this document may be marked or marketed as CERTIFIRE approved. Any change to, or deviation from, this specification requires the agreement of CERTIFIRE.

General

CERTIFIRE approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of approval that an agreed Data sheet accompanies the product and is complied with in its entirety. Failure to do so will render the approval invalid and may jeopardise the fire performance of the product.

Scope of Approval

As defined in Certificate of Approval No. CF5614.

1.1 Leaf and Overpanel Construction – Option 1 – Plywood Faced

- | | | | |
|-------|------------------------|-------------|--|
| 1.1.1 | Inner core: | Material: | Minimum 2.1 mm thick Poplar central inner core. |
| | Outer core: | Material: | Minimum 18.8 mm thick Spruce lamels to both sides of central inner core. |
| 1.1.2 | Internal framing: | | No internal framing required |
| 1.1.3 | Constructional facing: | | Plywood, minimum 1.8 mm thick to both sides of core. |
| 1.2.4 | Adhesive: | Facings: | MUF |
| | | Core: | PVAc or MUF |
| 1.1.5 | Thickness: | | 44 mm (+ 10 / - 1 mm) |
| 1.1.6 | Density: | Inner core: | 510 kg/m ³ min |
| | | Outer core: | 480 kg/m ³ min |
| | | Facing: | 510 kg/m ³ min |

1.2 Leaf and Overpanel Construction – Option 2 – MDF Faced

- | | | | |
|-------|------------------------|-------------|---|
| 1.2.1 | Inner core: | Material: | Minimum 2 mm thick Poplar central inner core. |
| | Outer core: | Material: | Minimum 13 mm thick Spruce lamels to both sides of central inner core |
| 1.2.2 | Internal framing: | | No internal framing required |
| 1.2.3 | Constructional facing: | | MDF, Minimum 8 mm thick to both sides of core |
| 1.2.4 | Adhesive: | Facings: | MUF |
| | | Core: | PVAc or MUF |
| 1.2.5 | Thickness: | | 44 mm (± 1 mm) |
| 1.2.6 | Density: | Inner core: | 450 kg/m ³ min |
| | | Outer core: | 450 kg/m ³ min |
| | | Facing: | 700 kg/m ³ min |

1.3 Leaf and Overpanel Construction – Option 3 – OVERSIZE Plywood Faced

- | | | | |
|-------|------------------------|--|---|
| 1.3.1 | Inner core: | Material: | Minimum 4 mm thick Poplar central inner core. |
| | Outer core: | Material: | Minimum 20.5 mm thick Spruce lamels to both sides of central inner core (nom. 28 mm wide) |
| 1.3.2 | Internal framing: | No internal framing required | |
| 1.3.3 | Constructional facing: | Plywood, minimum 4 mm thick to both sides of core. | |
| 1.3.4 | Adhesive: | Facings: | MUF |
| | | Core: | PVAc or MUF |
| 1.3.5 | Thickness: | 54 mm (± 1 mm) | |
| 1.3.6 | Density: | Inner core: | 510 kg/m ³ min |
| | | Outer core: | 480 kg/m ³ min |
| | | Facing: | 510 kg/m ³ min |
- 1.6 Moisture content: The moisture content of all timber based components shall be 9% (±2%).

2. Leaf Dimensions

- 2.1 Leaf thickness: 43 mm +2 mm / -0 mm (excluding finish)
- 2.2 Leaf height / width: As specified in Certificate of Approval
- 2.3 Configuration: As specified in Certificate of Approval
- 2.4 Meeting edges: Square only

3. Door Frame

As specified in Data Sheet

4. Overpanels / Sidepanels

- 4.1 Overpanels incorporating a transom rail of min. 44 mm thick, may be included up to a maximum size of 1000 mm high.
- 4.2 Sidepanels incorporating a mullion rail of min. 44 mm thick may be included up to a maximum size of 1000 mm wide.
- 4.3 Overpanels / Sidepanels to be manufactured as per door leaf specification, bedded against beads or the stop of the rebate and be screw fixed at minimum 400 mm centres, maximum 100 mm from each corner through the centre of the panel to a depth of at least 30 mm.
- 4.4 Entire overpanel may be glazed in accordance with point 5 below.
- 4.5 Overpanels without a transom rail are not permitted.

5. Glazed Fanlights

Any CERTIFIRE approved glazing systems may be used providing the installation details given in the appropriate certification documents are adhered to.

6. Glazed Apertures

6.1 One or more glazed openings systems may be included in each leaf.

6.2 Apertures

Height:	2000 mm maximum (at 400 mm wide)
Width:	500 mm maximum (at 1600 mm high)
Area:	Maximum total glazed area per leaf of aperture size 0.8 m ²
Margins:	No closer than 185 mm to the edge of the door leaf and 250 mm between apertures
Lining to aperture:	As required by the glazing certificate.

6.3 Glazing System

As specified in Data Sheet.

7. Hardware/Intumescent Seals

As specified in Data Sheet

8. Threshold Gaps

The data sheet advises that an 8 mm threshold gap is permitted for double-acting door assemblies, in order to limit the threshold gaps in line with the single-acting threshold gap allowance, however further to this it is noted that the test evidence supports a 12 mm threshold gap and this increased gap may therefore be utilised as required.

9. Labels

9.1 Labels of the CERTIFIRE design referencing Falcon Panel Products Limited, and FD30 fire resistance, to be applied to each approved door leaf in the prescribed position