

CFC-PC315-01

Ceiling fan penetrating a plasterboard ceiling (315mm or thicker)



This assessed detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines in line with the company's policy of continual development, details are subject to change and/ or withdrawal therefore you must ensure this is the latest published detail and instructions.

Additional Instructions

This assessed detail is based on a floor comprising of:

Joists: STEICO SE SJL 45/240 LVL Flange (480kg/m³) and hardwood (900kg/m³) web timber I-Joists measuring 240mm x 44mm with a 45mm x 39mm flange with 8.5mm web fixed at 600mm centres. 6 No. ring shanks nails measuring 3.8mm x 100mm Dia. per joist (3 No. per flange) fixed through the end beams. The gaps between the joists and end noggins were sealed with 160mm x 45mm x 18mm OBS pattresses fixed to the webs with screws and adhesive.

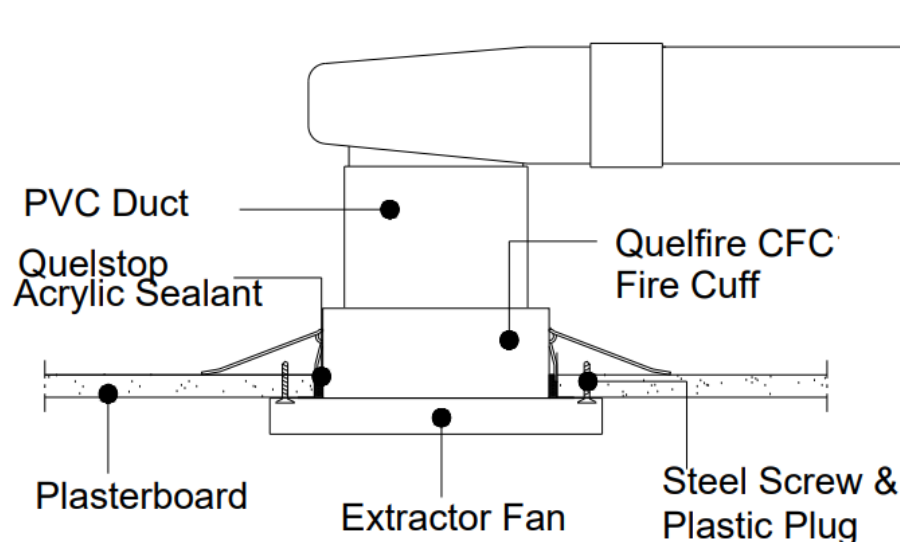
Insulation: Stone wool 50mm (100kg/m³ density) friction fitted between end beams and noggins. No insulation fitted within main cavity section.

Floorboards: 22mm thick tongue and groove chipboard was used on the unexposed face of the construction, using 60mm x 6.1mm Dia. shank nails at 600mm centres and Joint and Joist D4 grade adhesive.

Timber battens: 50mm x 38mm softwood grade C16 fixed at 600mm centres using 1 No. 75mm x 5mm Dia. Decking steel screws at each joint.

Ceiling Boards: 1 layer of 15mm Gyproc Fireline Plasterboard fixed to the underside of the timber battens using 3.5mm x 55mm drywall screws fitted at 150mm centres.

The annular gap between the CFC and the aperture should be sealed using QuelStop Intumescent Acrylic Sealant.



Quelfire Products Required

Product Code	Description
CFC100	Ceiling Fan Cuff for 100mm dia PVC Duct fan
QSS310	QuelStop Intumescent Acrylic Sealant

Different Supporting Construction

Please speak to the Quelfire Technical Team at technical@quelfire.co.uk with regards any variances in the overall construction. Whilst we cannot comment on the performance of different fan units or the use of the CFC100 in substrate constructions other than those tested or assessed and listed on this document, the WF Test Report and Assessment on which it is based can be made available for assessment by a qualified third party in accordance with the PFPF guidelines.

Service Type	Size of Services	Aperture	Fire Rating
Vectaire Elegance EL100	Ø100mm	Ø135mm	30 minutes Integrity
Vectaire ELIX 100			30 minutes Insulation

To be read in conjunction with:	WF Assessment 502948
Test standard:	Assessed in accordance with BS EN1364-2 and additional guidance from BS EN1366-3
Substrate minimum thickness:	315mm
Drawing Scale:	Not to Scale
Issue Number:	1
Date of Issue:	January 2023
Detail Reference:	CFC-PC315-01

Important Information:

- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All Services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

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