

FIREPRO

CI/SfB

FF109 DOWNLIGHT DATASHEET – Mar 14

FIRE PROTECTIVE BUILDING PRODUCTS

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Product specifications can change. Contact us to ensure you have our latest datasheet

FIRE RATED DOWNLIGHT COVERS

Type 1, FIREPRO FF109 (FRR -/60/60)



FF109-150, FF109-200, FF109-250

Down-lights used in fire-rated ceilings are subject to fire regulation. The FF109 Downlight Cover has been developed to provide maximum protection and ease of fitting for small/medium sized downlights.



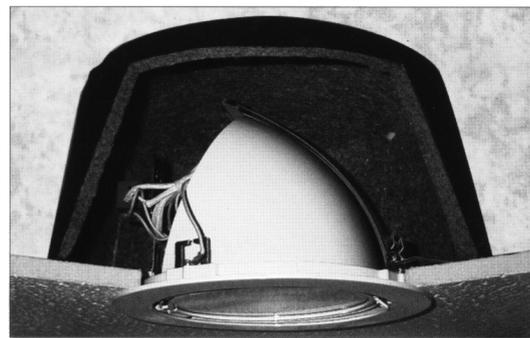
In a fire situation, the cover expands internally to fill the available space with fire-resistant insulating material.

KEY FEATURES & BENEFITS

- Maintains fire protection, preventing or delaying the spread of fire, up to 60 minutes FRL.
- Cover is flexible, lightweight and can be fitted in seconds, from above or below the ceiling.
- No screws, drilling or support required.
- Cover is ventilated to reduce heat build-up. Keep insulation clear.
- Suitable for downlights primarily of steel or aluminium construction.
- Acoustic Insulation.
- Prevent combustible materials from coming into contact with hot downlights.

Table 1. Sizes Available

Code	Cover nominal mm OD x Height	Cutout Size (Diam)
FF109-150	150 x 160	50 – 75
FF109-200	200 x 210	75 - 100
FF109-250	250 x 260	100 – 140
FF109-300	300 x 225	140 - 270
FF109-350	350 x 285	145 - 270



FF109-300
FF109-350

FIRE RATING

BRANZ Assessment FC2032 for integrity and insulation of up to 60 minutes in fire rated ceilings tested or assessed to AS1530:4, provided that there is not more than one light fitting in each 0.7M² of ceiling. Suitable for timber/plasterboard ceiling systems and concrete/steelbeam or wooden/plasterboard ceiling systems of appropriate fire ratings. Also tested to BS476:23 for fire-rated mineral fibre ceilings.

FF109 has been assessed by BRANZ as suitable for the following Winstone Gib® ceiling systems: GBFC15, GBUC15, GBFC30, GBCJ30, GBSC30, GBUC30a, GBUC30b, GBFC60, GBJC60, GBSC60, GBUC60.

NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. If used beyond the situations detailed on this datasheet we advise confirming their suitability before installation. All dimensions are nominal.

We reserve the right to make changes or to withdraw designs and products without notice.

INSTALLATION

FF109-150, FF109-200, FF109-250

- Ensure that correct size FF109 is used, considering both the cut-out size and the space required for operation of the downlight hold-down mechanism.
 - Grasp legs firmly and roll cover into a tight cylinder. Ensure wiring loom is through slot before installation.
 - Keeping a tight grip on the wire legs, feed the cover through the cut-out made for the downlight.
 - Ensure cover has sprung back into its original cone shape.
 - (a) Grasp legs and pull down until L section clears the underside of the ceiling.
 - (b) Move legs out until vertical part of L section is flush with the side of the cut-out.
 - - (a) Release legs so that they grip the underside of the ceiling.
 - (b) Remove the excess of both legs. Cut at point A.
- Once cover is in place, downlight can be fitted as normal.

FF109 are ventilated to reduce heat build up. Keep insulation clear.

FF109-300, FF109-350

- Ensure that correct size FF109 is used, considering both the cut-out size and the space required for operation of the downlight hold-down mechanism. Note: Smaller cut-out sizes may be used if the FF109 does not need to be installed through the cut-out.
- If installing through cut-out hole, roll cover into a cylinder. Ensure wiring is through slot before installation.
- Feed cover through cut-out or place from above ceiling.
- Push cover back into original shape. No wire hold-downs are required for installation of FF109-300 & FF109-350 as they have sufficient weight and stability to stay in place during a fire.
- Once cover is in place downlight can be fitted as normal.
- FF109 are ventilated to reduce heat build up. Keep insulation clear.

HEALTH and SAFETY

In normal handling and fitting no special protective measures are required. However a small proportion of people may be sensitive to FF109 and develop a skin irritation when in contact with it. The use of a barrier cream or gloves may help, but this is a matter of personal choice.

SOUND INSULATION

Airbourne Sound

in accordance with

BS EN ISO 140:part 4 (1995) and
BS EN ISO 717:part 1 (1997)

Impact Sound

in accordance with

BS EN ISO 140:part 6 (1998) and
BS EN ISO 717:part 2 (1997)

Rw(c:ctr)(db)

Ln,w(Ci)(db)

Unpenetrated Floor/ceiling

22mm Caberboard floor
with 200mm joists and
12.5mm plasterboard ceiling

41(-2; -7)

79(0)

Penetrated Floor/ceiling

9 Halogen Downlights penetrating
the plasterboard, each covered
by a FF109-150mm downlight
cover. Cut out for each downlight
60mm diameter. Floor/ceiling
construction as above.

42(-2; -7)

80(-1)

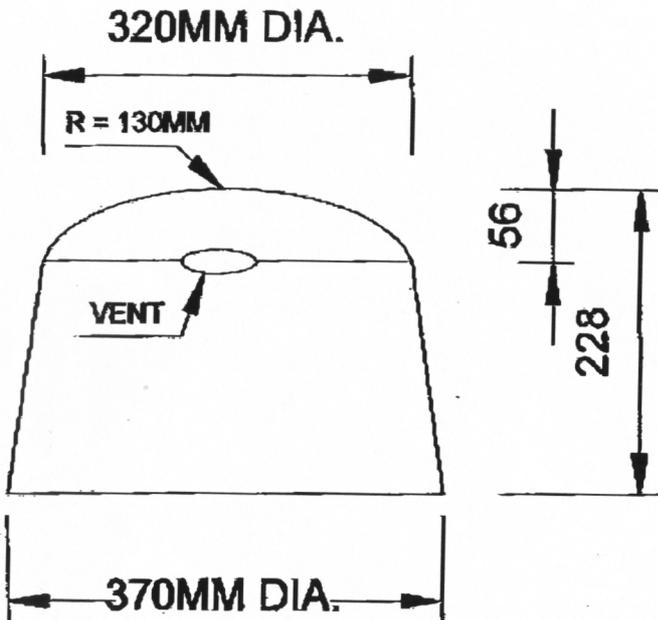
Type II Firepro FPYG (younger)

Type II Fire-rated Downlight Covers are similar in dimention & materials to FF109 but are fire-tested in 2Hr fire-rated ceilings. Installation is similar to FF109 except the wire on the leg is pushed between the two layers of the plasterboard ceiling.

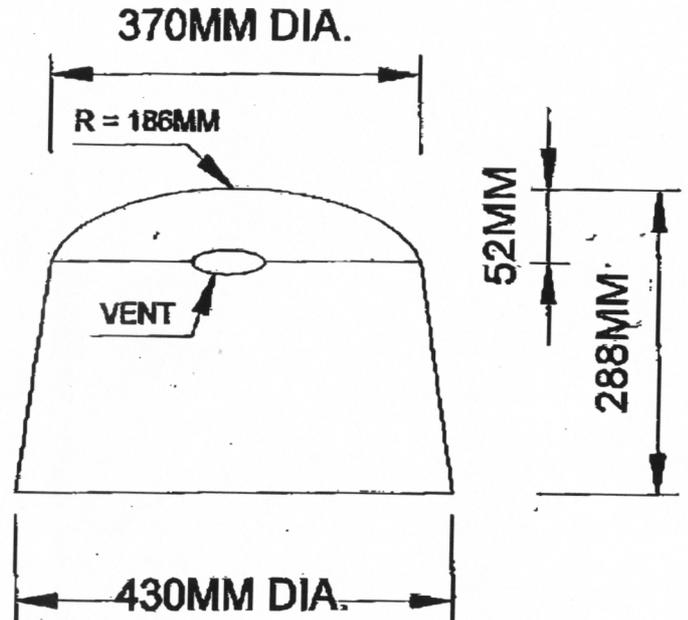
Nominal Size	Ceiling Cut-out Size		Fire Resistance Rating
FPYG-150mm	70mm	With Downlight	-/120/90
FPYG-200mm	90mm	With Downlight	-/120/90
FPYG-250mm	105mm	With Downlight	-/120/60
FPYG-200mm	90mm	Blank Hole	-/120/90

FF109 DOWNLIGHT FIRE PROTECTION COVERS

FF109-300



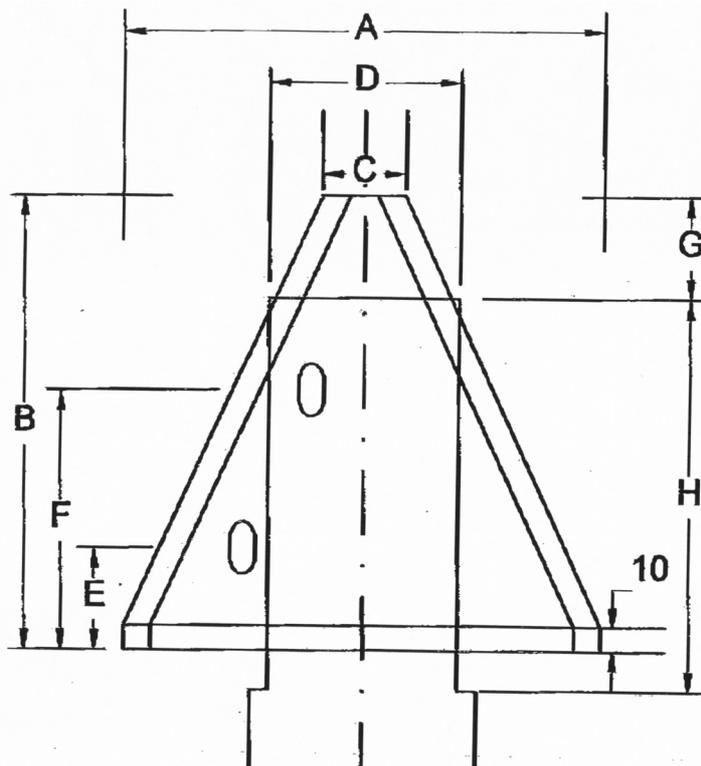
FF109-350



WALL THICKNESS : 12 TO 16MM

WALL THICKNESS : 12 TO 16MM

FF109-150, FF109-200, FF109-250



General Tolerance +/- 2mm
(Unless Otherwise Stated)

Cover	150	200	250
A	150	200	250
B	160	210	260
C	30	30	30
D	45	70	90
E	50	50	75
F	85	100	140
G	20	55	65
H	155	170	205
Slots 8 per	20x10	20x10	20x10
Wall Thk	6	7	8

All dimensions are nominal in mm.

FF109 DOWNLIGHT FIRE PROTECTION COVERS FITTING GUIDE Table 3.

All dimensions in mm.

Cut-out See Note Below	Maximum height of downlight fitting				
	FF109-150	FF109-200	FF109-250	FF109-300	FF109-350
50	80	135	185	170	230
55	75	130	180	170	230
60	70	125	175	170	230
65	65	120	170	170	230
70	60	115	165	170	230
75	55	110	160	170	230
80		105	155	170	230
85		100	150	170	230
90		95	145	170	230
95		90	140	170	230
100		85	135	170	230
105			130	170	230
110			125	170	230
115			120	170	230
120			115	170	230
125			110	170	230
130			105	170	230
135			100	170	230
140			95	170	230
145			90	170	230
150				170	230
155				170	230
160				170	230
165				170	230
170				170	230
175				170	230
180				170	230
185				170	230
190				170	230
195				170	230
200				170	230
205				170	230
210				170	230
215				170	230
220				170	230
225				170	230
230				170	230
235				170	230
240				170	230
245				170	230
250				170	230
255				170	230
260				170	230
265				170	230

Note: Any FF109 is suitable for gaps as with as small diameter as 50mm if the FF109 does not need to be fitted through the cut-out hole. For suitable sizes to fit through the cut-out hole see Table 1.