

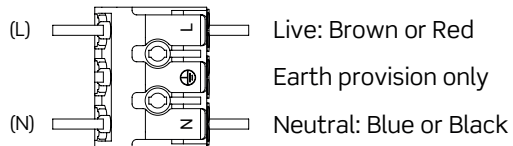
**FIREGUARD RANGE**

**JC94114**

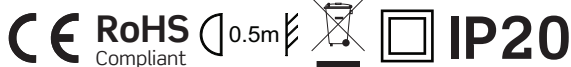
Fire-rated Tilt downlight  
Maximum Wattage: 50W

Available finishes:  
Brushed Nickel, Chrome and White

240V~ 50Hz Class II 



Class II with earth provision



BS EN ISO9001 - 2015  
Registered Firm Certificate No. GB 1552  
Drg No. JC94114-IS Issue: D - 07.02.20 - GL

Installation instructions for Fire-rated Downlight

**Warnings and cautions**

- To avoid electric shock, serious injury or property damage, isolate power before installing, removing or servicing the product
- It is recommended that luminaires are installed by a qualified electrician and the installation complies with the local current wiring regulations.
- Any broken or damaged parts should be replaced as soon as possible. JCC will not accept responsibility for claims arising from sub-standard installations.
- It is recommended that the ambient room temperature should not exceed 30°C.
- For dimming guidelines please go to: [jcc.co.uk/dimming](http://jcc.co.uk/dimming)
- These products are designed for connection to a mains supply of 240V~
- This luminaire is suitable for indoor use only.
- It may be necessary to upgrade your MCBs to allow for increased inrush current.
- This Fire-rated downlight can be loosely covered with mineral wool insulation
- Do not carry out insulation tests with the product connected to the circuit
- This fitting will be considered Class II with Loop In / Loop Out connector.
- Ensure area surrounding this luminaire is cleared of any flammable substances.
- Refer to the good practice guide on page 2 regarding insulation and minimum requirements for free airspace around the installed fitting.
- Always check with lamp manufacturer to ensure that the lamp is suitable for an enclosed can fitting.**

**Dimming Guidelines**

Dimmers must not be underloaded or overloaded: underloading may cause the lamps to flash. If flickering is experienced a different kind of dimmer may be required. Please note: DO NOT perform insulation resistance tests on a lighting circuit with LED lamps installed or a dimmer switch connected as this could damage the electronic components in the products beyond repair. A slight buzzing noise may be heard from the dimmer switch while in operation, however this is perfectly normal. These notes are intended for guidance only. JCC Lighting accepts no responsibility for unsatisfactory installations or consequent loss or damage howsoever caused. Please be aware that this mains Fireguard fitting is suitable for use with dimmable lamps. In all cases regarding LED lamps, refer to lamp Manufacturer for suitability for use in a sealed can and with dimmer switch manufacturers for compatibility.

**Installation Procedure**

Stage 1. Read the instructions and check you have all the tools and accessories required to complete the installation correctly.

Stage 2. Cut the mounting hole in the ceiling. (JCC recommends that a sample hole is cut in a section of spare material to familiarize yourself with the process). See Fig.1.

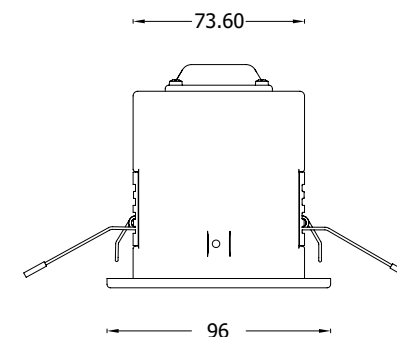
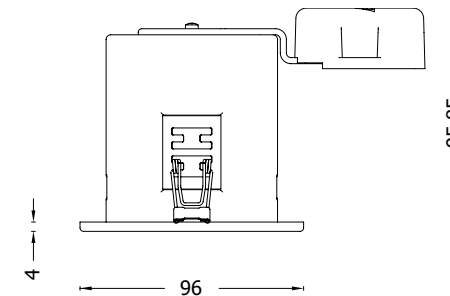
Stage 3. Connect luminaire to 240V~ supply (as shown on the left and below). Press springs back and push luminaire body into aperture.

**Important warranty information**

This product is supported by a 2-year standard warranty. (See website for terms and conditions).

**jcc.co.uk**

**Profile & Dimensions**



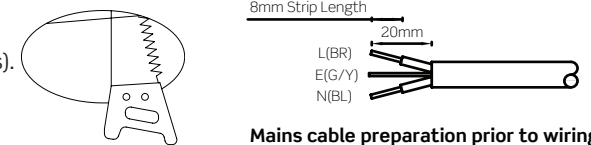
All dimensions in millimetres

**Luminaire Connections**

Colour codes for UK mains wiring are:

Live	Brown
Earth	Green/Yellow
Neutral	Blue

Fig.1. Cut out Ø 85mm

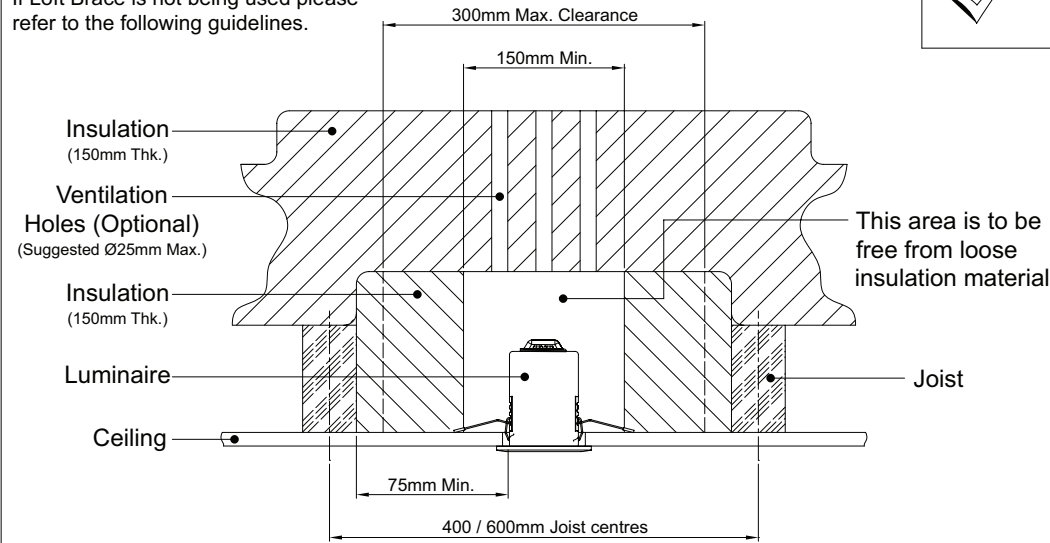


Mains cable preparation prior to wiring

## Installation Recommendations

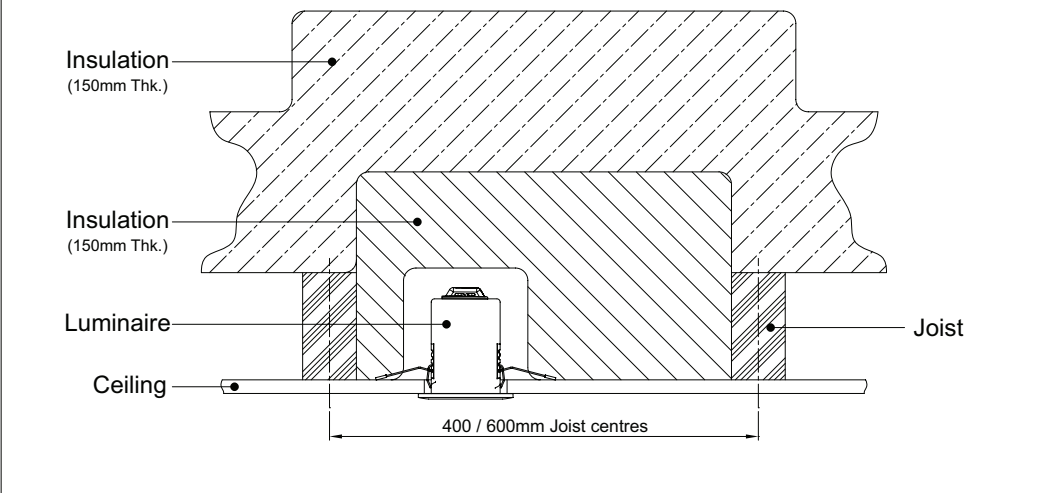
### GOOD PRACTICE

If Loft Brace is not being used please refer to the following guidelines.



### POOR PRACTICE

1. NOT enough ventilation around the fitting.
2. NOT enough clearance between joist and fitting.



### Why you need FIREGUARD

#### Part E Acoustic Standard

In today's modern society there is a general increase in the levels of background noises that can be expected in a domestic environment when compared with the past. The evolution of ever increasing high fidelity systems and associated power outputs, TV, Satellite and Radio, coupled to noise from traffic such as automobiles, trains and aircraft means that unwanted noise is on the increase. This additional noise has increased stress levels which ultimately results in poor health and fatigue. The end result is loss of revenue to industry through absence. Thus, the Government has implemented changes to the building regulations to ensure that a reasonable amount of attenuation can be expected between partition walls and ceilings not only between separate dwellings but also noise derived from within an individual residential area. The special gaskets incorporated into the Fireguard design ensure that the criteria is met.

#### Part L Energy Conservation

The 2006 revision to Part L has added considerable onus onto lighting installations with a far more defined requirement for energy conservation. There is now a need for 1 in 4 downlights to be energy efficient. Where downlights are used in abundance the need to find suitable locations for energy efficient luminaires becomes more challenging. This fitting gives you those options allowing you to choose an LED lamp which is suitable and more efficient than the traditional halogen lamp.

#### Part C Moisture Protection

New building materials and associated construction methods are altering the way in which new properties are manufactured. There is a move towards breathable membranes for roofs; these replace traditional bitumen coated roofing felt and negate the need to provide ventilated eaves to roofs. The material allows water vapour to permeate from the roof area out to the surrounding environment but remains impervious to external moisture. The material is much lighter and allows a roof to be completed at ground level and lifted into position on the dwelling creating a water tight environment under which construction can continue. There is no longer a need to provide ventilated eaves. For this reason the amount of moisture that can enter a cold roof void must be controlled; thus anything which punctures the seal between the cold roof area and dwelling area must be considered. Light fittings and loft hatches are good examples of intrusions into the roof area that can facilitate the passage of moisture. BS5250 which is referenced in Part C stipulates the permitted air flow per luminaire (0.06m<sup>3</sup>/Hr/m<sup>2</sup> at a pressure of 2 pascals) for which Part L defines the testing criteria and total building envelope performance. The requirements are very demanding and care is needed to ensure compliance. Fireguard downlights have been designed with special seals to inhibit the flow of air & moisture through the fitting as required by Part C of the building regulations. This has been widely enforced from the 1st of July 2005.

#### Part B Fire Safety

The purpose of Part B is to ensure building structures provide adequate protection to personnel to allow the safe evacuation of a building structure/complex. The regulation has been a legal requirement since 1987. The level of resistance required is proportional to the risk involved and the location of adjacent dwellings. For the domestic market 30 or 60 minutes is normal. However under extreme conditions 90 minutes is required. All Fireguard fittings are tested for 30, 60 & 90 minute ceilings (selected I - Joist ceiling construction 30 & 60 minute compliant).