

# integral LED

Installation instructions for –Integral Fire rated Downlight Range — 3 Year Warranty

TILTABLE FIRE RATED DOWNLIGHT		
Full Pt No	6 digit	EAN Barcode
ILD LFR92C001	79-30-57	5055788223795
ILD LFR92C003	23-66-97	5055788223818
ILD LFR92C005	66-04-83	5055788223832
ILD LFR92C006	73-56-57	5055788223849
ILD LFR92C007	79-07-84	5055788223856
ILD LFR92C008	10-70-46	5055788223863
ILD LFR92C009	63-82-12	5055788223870
ILD LFR92C010	57-85-45	5055788223887
ILD LFR92C015	14-61-86	5055788229162
ILD LFR92C016	14-64-13	5055788229186
ILD LFR92C017	14-65-62	5055788229209
ILD LFR92C018	14-67-15	5055788229223
ILD LFR92C023	28-13-70	5055788254690
ILD LFR92C024	38-92-19	5055788254713

FIXED FIRE RATED DOWNLIGHT		
Full Pt No	6 digit	EAN Barcode
ILD LFR70A001	33-55-10	5055788213710
ILD LFR70A002	80-82-70	5055788213727
ILD LFR70A004	78-94-78	5055788213741
ILD LFR70A005	19-76-14	5055788213758
ILD LFR70A006	68-66-81	5055788213765
ILD LFR70A007	71-81-90	5055788213772
ILD LFR70A008	32-20-98	5055788213789
ILD LFR70A009	69-47-07	5055788213796
ILD LFR70A010	90-96-31	5055788213802

## Important Details – Please read prior to installation

**Ensure the AC/Mains power is NOT connected and cannot be unexpectedly reconnected during installation**

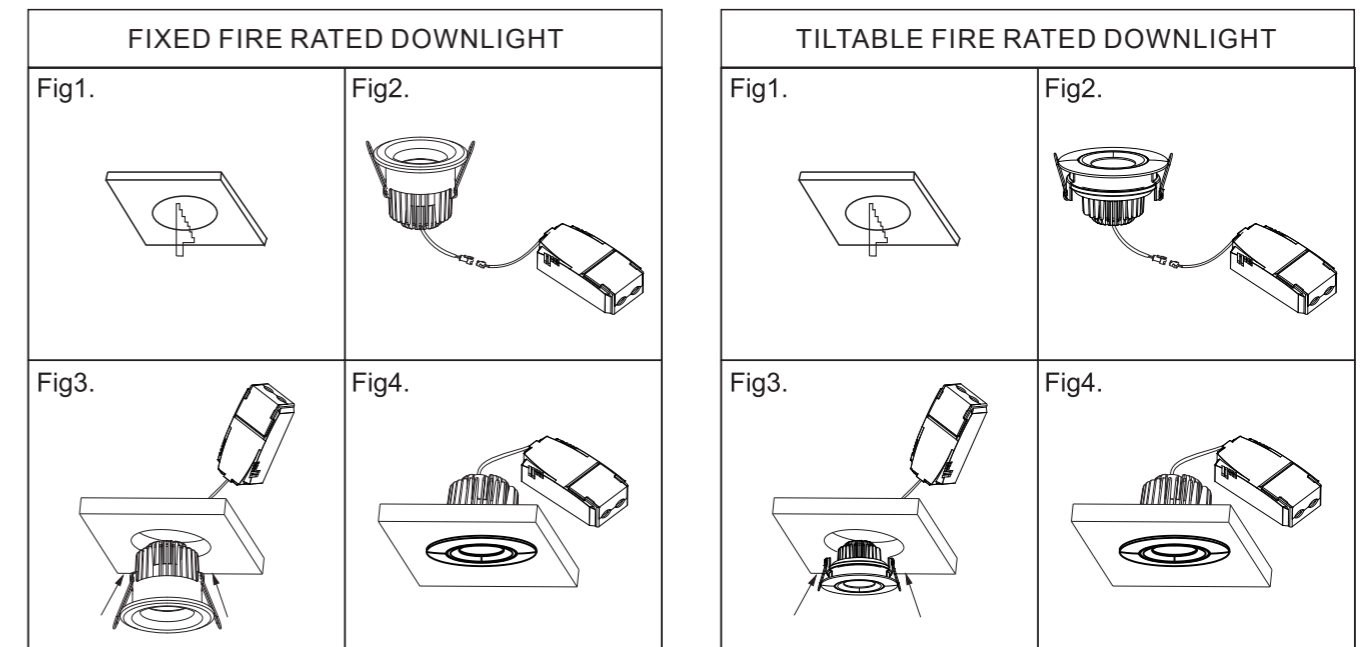
1. This product must be installed by a qualified electrician in accordance with instructions provided and in compliance with recognised electrical and safety regulations relevant to the country it is being installed.
2. The product and its associated control gear are designed to operate on 220-240volts 50Hz.
3. This downlighter range is designed to be installed in a ceiling tile/solid material, with a minimum dimension of 3mm thickness.
4. This product is for Indoor use only. It should not be covered with insulation material at any time.
5. Minimum Clearance is 50mm above the installed fitting, and no product should be installed within 50mm of any joist.

## Specific Installation details

1. Ensure the AC/mains power is not connected and cannot be reconnected during installation.
2. For new installations use cutting tools suitable for the material and carefully cut the required hole to allow installation.(Figure 1)
3. For Refurbishment installations ensure that the existing hole is suitable and strong enough to hold the new downlight. Support the surrounding area if required.
4. Connect the AC/mains cable to the driver using the marked terminals provided. Incoming Cable connections are, L= Live power conductor (brown), N = Neutral power conductor (blue).The driver offered is Class II.
5. Remove downlighter from box and connect to the driver via the connection system provided. (Fig.2)
6. Raise the springs and place the downlighter into the tile cut-out ensuring that both the driver and mains power cable are not trapped. (Fig.3)
7. Once correctly connected, position the downlighter fully into the aperture so that the outer flange is flush with the installed ceiling tile/solid material. (Fig 4)
8. (For Tilttable version) Tilt downlighter as required.

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9. Switch on the mains power supply.



## Integral LED Downlighter Good Installation Guidelines

1. The Integral LED downlighter range, are principally designed to be installed into plasterboard ceilings with wooden joists. However other ceilings can be used, if the construction dimensions are suitable.
2. No downlighter, of any type, should be installed within 75mm of any vertical wooden support.
3. There should always be a minimum of a 50mm void depth to any wooden support
4. Covering insulation should always be avoided if at all possible, allowing free air around the product is always advantageous to the life of the product.
5. The use of proprietary Loft braces is recommended to avoid installation and insulation issues.

## Dimming requirements

The Dimming of LED products requires the installing contractor to provide the correct dimmer for the product. Integral LED recommends the use of VariLight Pro 400 Dimmers as the best in Market for LED dimming. Please see [www.varilight.com](http://www.varilight.com) dimmers

## Product Compliance:

These Integral fire rated downlights are tested and compliant with the following

BS476 Part 21:1987 Methods for determination of the fire resistance of loadbearing elements of construction. Covers solid timber joist ceiling/floor constructions up to 90 minutes

BS EN ISO 140-3: 1995 (Airbourne) and BS EN ISO 140-6:1998(Impact). Measurement of sound insulation in buildings and of building elements

BS EN ISO 717-1:1997 (Airbourne) and BS EN ISO 717-2 :1997 (Impact). Rating of sound insulation in building and of building elements

IP65 and Air tightness compliant with Part C (resistance to contaminants and moisture) and Part L (conservation of power and fuel). Tested in accordance with BS EN 13141-1:2004

Building Regulations: Approved documents ; Part B (Fire),Part C (Condensation),Part E (Acoustic),Part L (Conservation of Fuel and Power), Part P (Electrical Installation)

Warranty/technical and contact information are all available at [www.integral-led.com](http://www.integral-led.com)

Integral LED, London, NW10 0UF, UK

Integral Europe BV, 2801 DG, NL

ILD LFRV3---\_Installation\_Instruction\_V3

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