

### Pre-Installation Notes

This fitting must be installed by a qualified electrician and wired in accordance with the latest edition of the IEE Electrical Regulations.

Make sure that the 'Incoming Mains Supply' is switched off before working on this luminaire.

Information regarding Part Number, Description, Voltage, Frequency, IP rating and Lumens is shown on the label affixed to the box containing the luminaire.

High voltage insulation test equipment **"Must Not"** be used on luminaires.

The luminaire is suitable for use within ambient temperature ranges of -10°C to +25°C only.

However, particular attention should be paid to the temperature range for Emergency fittings. Installations that regularly drop below 0°C for prolonged periods, particularly when the luminaire is not illuminated are likely to result in a shortened battery life. In such applications regular testing and battery replacement schedule is recommended.

### Performance and Warranty

This product is warranted for twelve months from the date of installation, provided that the installation is carried out within two months of purchase, subject to the following conditions:

- This warranty will only be valid if the fittings have remained unmodified and used as per this instruction leaflet and our literature.
- Fern-Howard Ltd. shall not be liable for any consequential loss or damage caused directly or indirectly by any defective or otherwise.
- Battery packs are guaranteed for 12 months but are expected to have a life of at least four years if used within the specified temperature limits and tested in accordance with the standards in our literature.

### Technical Data

Specific data sheets can be downloaded from our website [www.fernhoward.com](http://www.fernhoward.com)

Nobody but Fern-Howard **gives you**  
the same **value for money, quality and range**



## LED Bulkheads - Installation Instructions



Icebreaker  
Ø 325mm  
FHBL-20-095-



Icebreaker  
Ø 245mm  
FHBL-20-075-



Call +44 (0)1420 470 400 email [lighting@fernhoward.com](mailto:lighting@fernhoward.com) or visit [www.fernhoward.com](http://www.fernhoward.com)

Fern-Howard Ltd, 2 Newman Lane, Alton, Hampshire, GU34 2QR, United Kingdom.

FHLP0004 | ISSUE 4 | MAY2018

It is the responsibility of the installer to ensure correct installation. Fern-Howard do not accept any loss or damage to the product, private property and/or persons due to inadequate or incorrect installation.  
Fern-Howard reserve the right to alter the specifications and/or improve products without prior notice.

Call +44 (0)1420 470 400 email [lighting@fernhoward.com](mailto:lighting@fernhoward.com) or visit [www.fernhoward.com](http://www.fernhoward.com)

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

# LED Bulkheads - Installation Instructions

1

2

3

4

Screws Not Supplied  
Ø 6-8mm

IP rating must be retained. An M20 IP44 cable gland must be used. Any fixing holes must be filled with a proprietary silicon sealing compound.

5

Icebreaker Ø 325mm Wiring

Standard Wiring

Blue Neutral  
n/c  
Brown Live

~ 50/60Hz  
Power Factor = 0.8pF  
Supply Current = 220-240V

Emergency Wiring

Blue Neutral  
Green/Yellow Earth  
Black Permanent Live  
Brown Live

~ 50/60Hz  
Power Factor = 0.5pF  
Supply Current = 0.2A(0.022A) 220-240V

Icebreaker Ø 245mm Wiring

Standard Wiring

Blue Neutral  
n/c  
Brown Live

~ 50/60Hz  
Power Factor = 0.5pF  
Supply Current = 0.2A(0.022A) 220-240V

6

7

8

ON

SUITABLE FOR LOOPING IN

| Circuit Breaker Type | No. of Products |
|----------------------|-----------------|
| C10                  | 50              |
| C13                  | 65              |
| C16                  | 80              |
| C20                  | 100             |
| B10                  | 30              |
| B13                  | 39              |
| B16                  | 48              |
| B20                  | 60              |