

FIREPRO

FIRE PROTECTIVE BUILDING PRODUCTS

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

TENMAT FF120 INSULATION LOFT COVER for DOWNLIGHTS

Recessed halogen downlights are highly inefficient with typically 95-98% of the input energy being converted to heat and not light.

The halogen lamps can run very hot, typically up to 300°C, therefore this type of lamp can generally not be covered with insulation otherwise it can overheat and cause a fire risk.

Where recessed halogen downlights are fitted into a ceiling under a loft space, the insulation is usually removed from around the light fixture. This then acts as a chimney allowing heated air to escape from the room into the loft space and out to the atmosphere.

As the heated air is drawn into the loft space by the downlight then this is replaced in the room by cool air from the outside, this cools the room further.

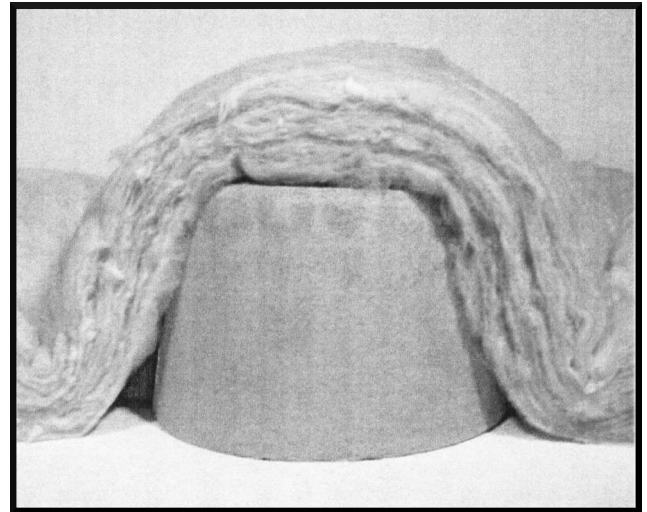
The FF120 Insulation Fire Barrier has been developed to prevent the loss of heat and the risk of overheating causing fire and to ensure that combustibles are kept away from hot downlights. Suitable for up to 50 watt lamps. Not designed for cool beam lamps.

Key Features and Benefits

- ✓ Allows compliance with AS/NZS3000:2007 Wiring Rules.
- ✓ Allows continuous insulation over lights, limiting heat loss into loft space, per AS/NZS 3000:2007 4.5.2.3.
- ✓ Reduces moist air flow into loft space limiting the risk of damp problems per NZECP-54-2.1.2(d).
- ✓ Fully tested to prevent overheating to BSEN60598-1 (AS/NZS60598-1 equivalent).
- ✓ Reduces fire risk by keeping combustibles away from hot downlights AS/NZS 3000:2007:4.5.2.3.
- ✓ Limits passage of sound (NZECP-54-2.1.2(g)).
- ✓ Low thermal conductivity per AS/NZS 3000:2007:4.2.2.3.
- ✓ Easy to fit without special tools. Instructions included in 10 pack cartons.

Thermal Testing

Thermally tested by the UK Lighting Association Laboratories to BSEN60598-1 to ensure that the downlight does not overheat even when the cover is buried in insulation.



FF120 fitted under glasswool insulation
Measurement: 270mm diameter 150mm high (nominal).

Thermocouple Position	Recorded Results	Referenced to 25°C ambient	Temperature Maximum Allowance in Test Standard
0	26.6	25	N/A
1	97.8	96.2	200
2	48.3	46.7	90
3	47.5	45.9	90
4	68.6	67	90
5	62.8	61.2	90
6	51.7	50.1	90

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. They should not however be construed as controlling suggestions and there is no warranty of performance of our materials either expressed or implied. We urge that users of our materials conduct confirmatory tests to determine final suitability for their specific end uses. All dimensions are nominal. We reserve the right to make changes or to withdraw designs and products without notice.



TENMAT FF120 LOFT COVER



FITTING INSTRUCTIONS

TENMAT FF120 Loft Cover:

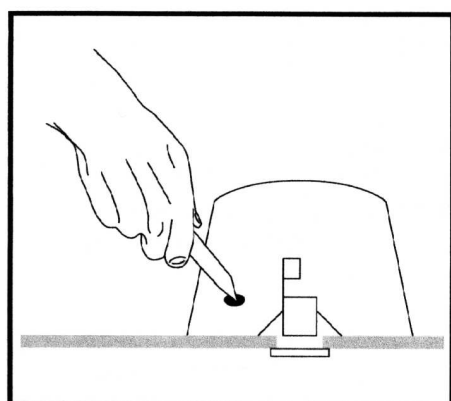
Suitable for downlight cut-out diameters of 70-110mm

Meet international standards for a lighting product when covered with insulation



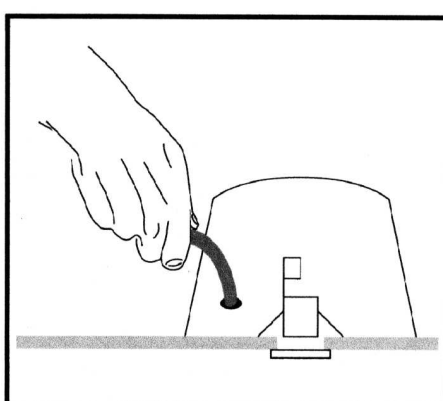
STEP ONE

Make small tight fitting hole through cover for cable.



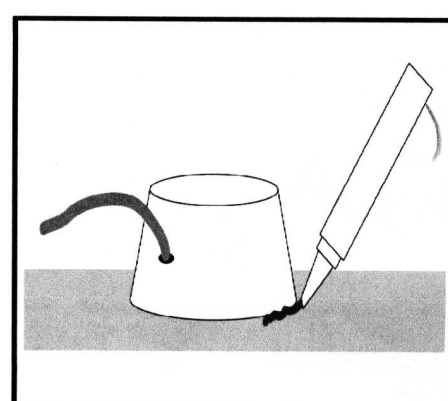
STEP TWO

Pass cable through cover and wire light as normal.



STEP THREE

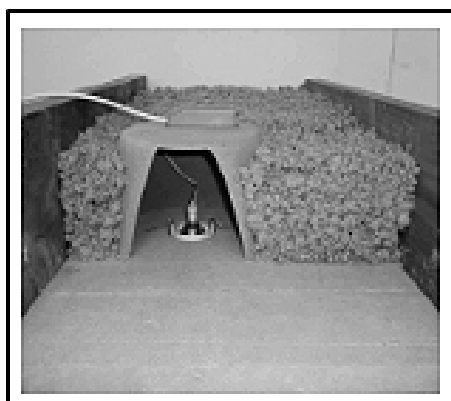
If desired, seal around base of Loft Cover with silicone sealant to ensure more secure fix.



STEP FOUR

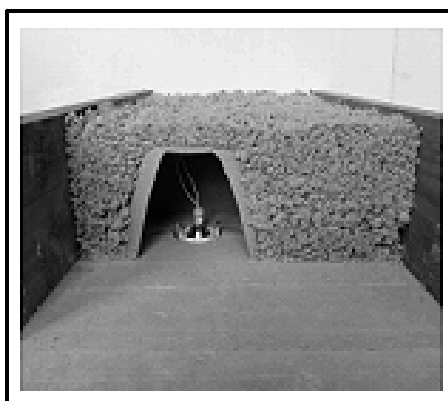
Transformer should be placed on top of Loft Cover if insulation level below top of Loft Cover (See photo below).

DO NOT place transformer under Loft Cover.



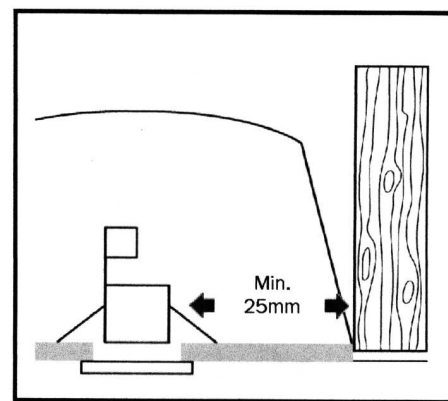
STEP FIVE

If insulation level covers the Loft Cover the transformer should be mounted clear of insulation and to transformer manufacturers recommendations.



NB.

Loft Cover approved for installation in contact with combustible surfaces i.e. timber. The downlight must be min. 25mm away from timber joist.



IMPORTANT

- Max. depth of insulation above cover 270mm
- Ensure transformer mounted clear of insulation
- Do not place transformer under the cover
- Max. lamp wattage 50W
- Downlight should not touch inside of Loft Cover
- Downlights must be fitted in accordance with manufacturer's recommendations
- Not designed for cool beam lamps.

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