

FIRE PROTECTIVE BUILDING PRODUCTS

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

TENMAT FF130 FLANGED LOFT CONE for DOWNLIGHTS


Recessed halogen downlights are used in many homes and businesses. Although they give the attractive crisp white light which makes them very popular, they also represent a potential fire hazard, especially when buried in loft insulation.

Numerous house fires have been caused by the ignition of combustibles in ceiling spaces caused by hot downlights being mistakenly covered with loft insulation and for this reason the regulation for fitting downlights has been tightened, this legislation is covered by AS/NZS 3000:2007.

TENMAT are known worldwide for the development and manufacture of fire protection products. To meet the needs of AS/NZS 3000:2007, TENMAT have developed the Flanged Loft Cone.

The Flanged Loft Cone meets the latest needs of AS/NZS 3000:2007 and international standards for a lighting product when covered with insulation. It adheres to the maximum external temperatures requested by the Australian Technical Regulator even when cool beam lamps are used.

Key Features & Customer Benefits

- "F-Capped" Approved 
- Reduces fire risk by keeping combustibles away from hot downlight
- Meets the latest needs of AS/NZS 3000:2007 and international test standards for a lighting product
- Fully tested to prevent overheating
- Can be fitted tightly against ceiling joists
- Save energy by limiting heat loss into loft space
- Allows continuous insulation over lights up to 270mm deep over the FF130
- Limits drafts, improves air tightness and reduces moist air flow into loft space
- Withstands temperatures of +1000 °C



FF130 Flanged Loft Cone fitted within insulation



FF130 Flanged Loft Cone

TEST DATA

TENMAT Flanged Loft Cones are tested and fully comply with:

BS EN 60598.1 and BS EN 60598.2.2

The successful testing ensures approval for use with max. 50W aluminium and dichroic reflector halogen lamps and installation in direct contact with combustible and non-combustible sheet materials.

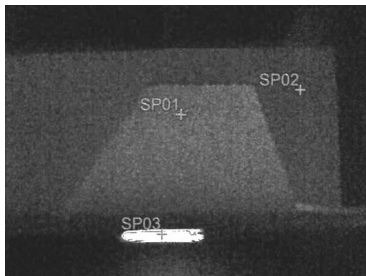
Full compliance to the standard was obtained, resulting in "F-Capped" Approval.

Test Report No. - L10539 / The Lighting Association

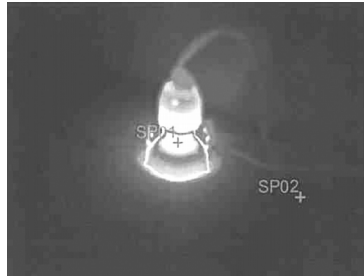
The Flanged Loft Cone has been developed to reduce the risk of fire caused by the overheating of downlights.

The fire resistant Flanged Loft Cones ensure that insulation and combustibles are kept away from the downlight when installed in loft spaces.

The difference in a downlight with and without a Flanged Loft Cone can be seen via thermal image photography below, in particular see how the excessive heat of a downlight could be a possible point of ignition.



Thermal Image with Flanged Loft Cone



Thermal Image without Flanged Loft Cone

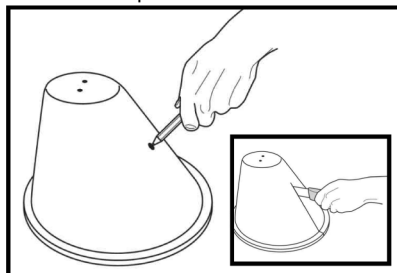
IMPORTANT

- FF130 Flanged Loft Cone is suitable for up to max. of 50W aluminium and dichroic reflector halogen lamps with cut out dimensions of 70 to 100mm.
- FF130 Flanged Loft Cone Nominal Dimensions:
Internal Height = 150mm
External Height = 160mm
External (at base) Diameter = 250mm
- Ceiling accessories should be fitted in accordance with manufacturer's recommendations.
- Do not place transformer under the cover.
- Tenmat's products are protected by patents and design registrations.

Fitting Instructions

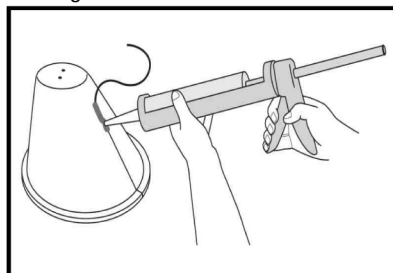
STEP ONE

Make a small hole or slit in the Loft Cone for cable. Downlight must be fitted in accordance with manufacturer's specifications.



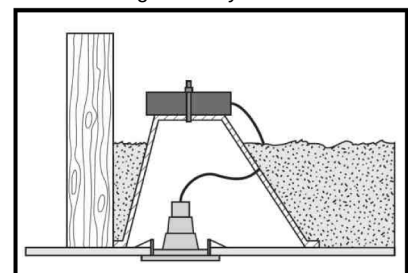
STEP TWO

After placing cover over downlight, pass cable through Loft Cone and seal up any holes or slits with silicon sealant. Downlight must not touch inside of FF130.



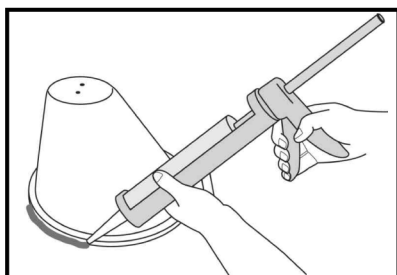
STEP THREE

If insulation level will not completely cover or bury Loft Cone, the transformer can be located on the top of the Loft Cone, securing with a nylon cable tie.



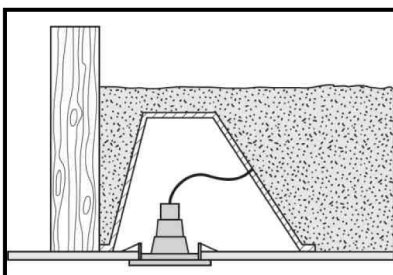
STEP FOUR

Seal a round base of Loft Cone with silicone sealant to secure in place.



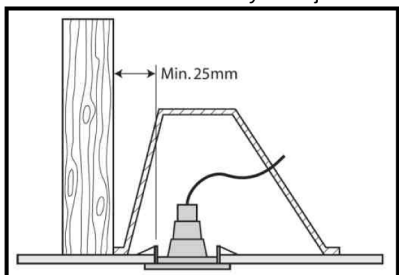
STEP FIVE

If insulation will cover or bury the Loft Cone, the transformer must be mounted clear of insulation following transformer manufacturer's recommendations.



STEP SIX

NB. The Loft Cone is approved for installation in contact with combustible surfaces, e.g. timber. The downlight must be min. 25mm away from joist.



New Zealand Distributors

Firepro Centabuild Ltd

8 Botha Road, Penrose, Auckland, Ph 09 5790367, Fax 09 5792511.

Unit 8A, 33 Pito-One Road, Korokoro, Wellington, Ph 04 5687086, Fax 04 5860974.

23 Byron Street, Sydenham, Christchurch, Ph 03 3799364, Fax 03 3799380.

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.



TENMAT FF130 FLANGED LOFT CONE



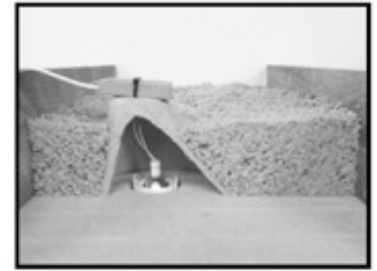
FITTING INSTRUCTIONS

TENMAT FF130 Flanged Loft Cone:

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

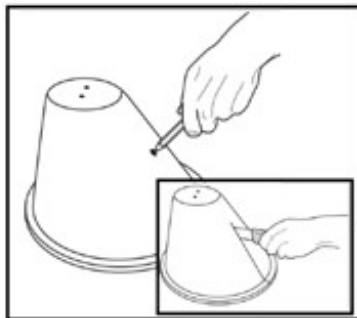
“F-Capped” Approved - Can be buried in insulation

Meets AS/NZS 3000:2007 & other international standards for a lighting product when covered with insulation



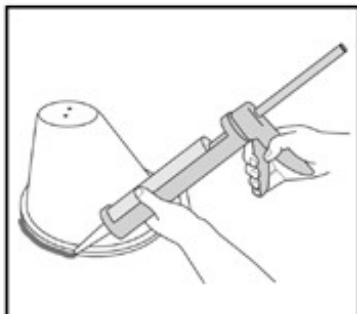
STEP ONE

Make a small hole or slit in the Loft Cone for cable



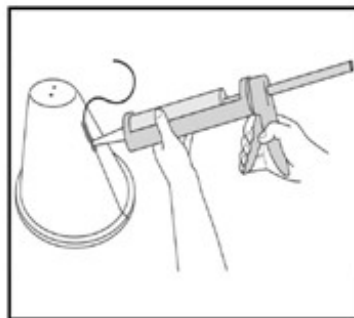
STEP FOUR

Seal around base of Loft Cone with silicone sealant to secure in place.



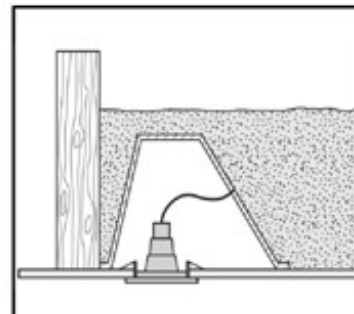
STEP TWO

After placing cover over downlight, pass cable through Loft Cone and seal up any holes or slits with silicone sealant.



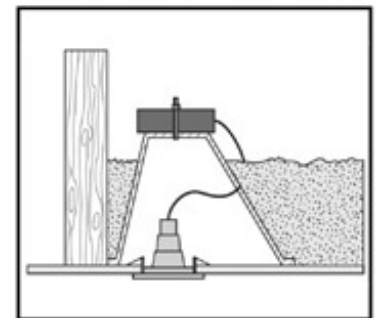
STEP FIVE

If insulation will cover or bury the Loft Cone, the transformer must be mounted clear of insulation following transformer manufacturer's recommendations.



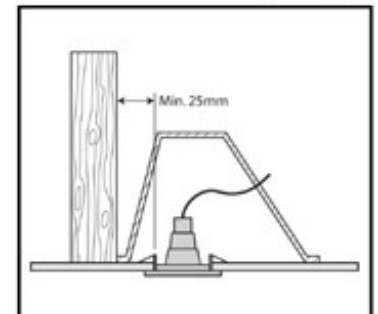
STEP THREE

If insulation level will not completely cover or bury Loft Cone, the transformer can be located on the top of the Loft Cone, securing with a nylon cable tie.



STEP SIX

NB. The Loft Cone is approved for installation in contact with combustible surfaces, e.g. timber. The downlight must be min. 25mm away from joist.



IMPORTANT

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

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