

# TENMAT **FIREFLY 130**



## THERMAL LOFT CONE



Recessed downlights are used in many Australian 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 and also allow a product to be fitted from below the ceiling, TENMAT have developed the Thermal Loft Cone.

The Thermal Loft Cone meets the latest needs of AS/NZS 3000:2007 and international test standards for a lighting product when covered with insulation. In addition, it adheres to the maximum external temperatures requested by the Australian Technical Regulator.

### Key Features & Customer Benefits

- Can be fitted from above or below ceiling
- Creates a Thermal Barrier
- Minimises heat loss into roof space
- Reduces fire risk by keeping combustibles away from hot downlight
- Firefly material withstands temperatures of +1000°C
- Proven to prevent overheating of lights
- Can be fitted tightly against ceiling joists
- Prevents fibres from entering room
- Creates an acoustic barrier
- Suitable for low and mains voltage fittings
- Easy to fit without special tools
- Lightweight - does not overload ceiling



**FF130 Thermal Loft Cone fitted under insulation**



**Energy saving by using Loft Cones over downlights**

### TEST DATA

Tenmat Thermal Loft Cones are tested and fully comply with:

BS EN 60598-1:2004 with aluminium reflector lamps for ceilings of combustible and non-combustible sheet materials.

Test Report No. - L9807B / The Lighting Association

BS EN 60598-1:2004 with dichroic reflector lamps for ceilings of non-combustible sheet materials.

Test Report No. - L9807A / The Lighting Association

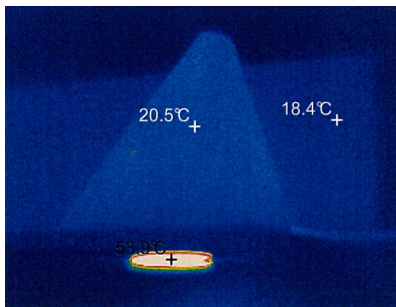
# FIREFLY 130 THERMAL LOFT CONES



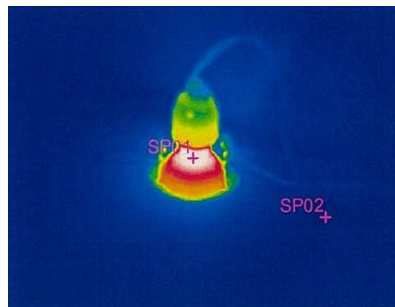
The Thermal Loft Cone has been developed to reduce the risk of fire caused by the overheating of downlights.

The fire resistant Thermal 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 Thermal 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 Loft Cover



Thermal Image without Loft Cover

## Sizes Available

Firefly 130 Thermal Loft Cone is suitable for downlights with cut-out dimensions of 75 - 100mm.

The downlight should not touch the inside of the thermal cone.

Do not place transformer under the cover.

Ceiling accessories should be fitted in accordance with manufacturer's recommendations.

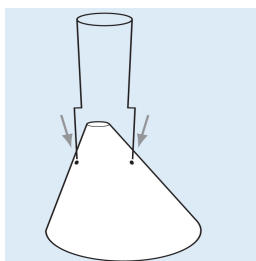
For further technical information please contact Tenmat.

**TENMAT's products are protected by patents and design registrations**

## Fitting Instructions

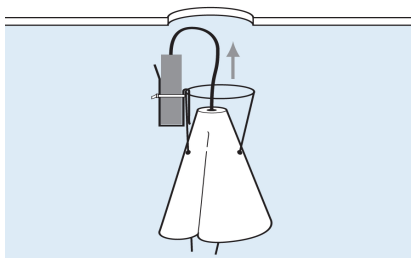
### STEP ONE

Fit fixing wire through pre-punched holes at the top of the cover.



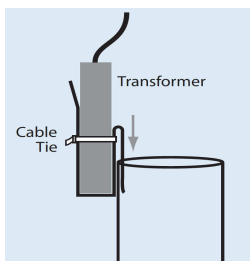
### STEP FOUR

Ensuring transformer & wire are held above the cover, grasp legs firmly and roll cover into a tight cylinder. Feed the transformer then the cover through the ceiling cut-out.



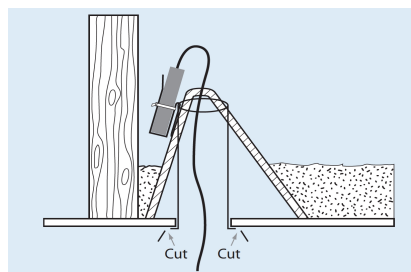
### STEP TWO

Fit transformer (if used) into wire clip and secure with a cable tie. Hook the transformer and clip over fixing wire loop.



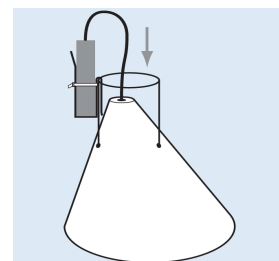
### STEP FIVE

Ensure cover springs back to shape. Pull down on legs until L-Section locates under the ceiling and cut off excess wire. The downlight can be fitted as normal.



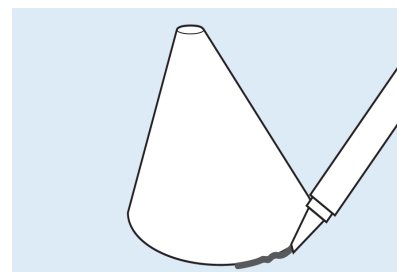
### STEP THREE

Make a hole in the top of the cover to pass cables through ensuring a tight fit.



### OPTIONAL STEP

If fixing wire and transformer clip are not required then the Loft Cone can be bonded to the ceiling with a bead of silicone sealant.



Agent / Distributor

For more information on the range of  
**TENMAT Fire & Thermal Protection Products**  
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