

TENMAT **FIREFLY 120** AIRTIGHTNESS & THERMAL LOFT COVER

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

The halogen lamps can run very hot, up to 300 degrees 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 atmosphere.

As the heated air is drawn into the loft space by the downlight then this is replaced in the room by cool air which is pulled through vents and gaps from the outside, this cools the room further.

To combat this TENMAT, as part of its continuing development of energy efficient solutions, has developed the **FF120 Thermal Loft Cover**.

Key Features & Customer Benefits

- Energy Saving
- Limits heat loss into loft space
- Allows continuous insulation over lights
- Improves Air Tightness of the room and limits drafts
- Helps meet Part L of Building Regulations
- Reduces moist air flow into loft space limiting the risk of damp problems
- Fully tested to prevent overheating
- Reduces fire risk by keeping combustibles away from hot downlight
- Limits passage of sound
- Easy to fit without special tools



FF120 Thermal Loft Cover fitted under insulation



Energy saving by using Loft Covers over downlights

TEST DATA

Tenmat Thermal Loft Covers are tested and approved to the following standards:

Fire testing

Tested for up to 60 minutes duration by Chiltern Int. Fire to the general principles of BS 476: Part 20.

Test Report Number - IF06004 / Chiltern Int. Fire

Thermal Testing

Thermally tested by the Lighting Association to BSEN 60598 to ensure that the downlight does not overheat even when the cover is buried in insulation.

Test Report Number - L9807C

Airtightness Testing

Tested to BS EN 1026:2000 over a pressure range of 2 - 50

FIREFLY 120 THERMAL LOFT COVERS

The Thermal loft cover has been developed to prevent the loss of heat from; and improve the air tightness of recessed halogen downlights. The Air Leakage improvement by fitting the Loft Cover can be seen in the adjacent graph.

The covers achieve this whilst adding maximum safety to the property via the addition of fire testing and ensuring that combustibles are kept away from the hot downlight.

The difference in a downlight with and without a loft cover can be seen via thermal image photography, in particular see how the unprotected downlight gets very hot and could be a possible point of ignition.

Sizes Available

Firefly 120 Thermal Loft Cover Dimensions:

Internal Height = 150mm

Internal Diameter = 200mm

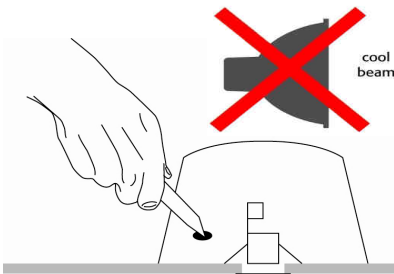
The Loft Cover is designed to suit all common recessed downlights

For further technical information please contact Tenmat

Fitting Instructions

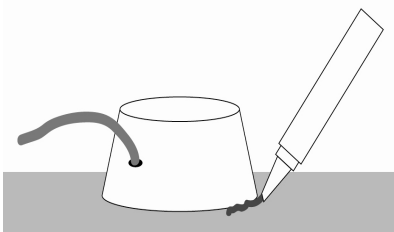
STEP ONE

Make small tight fitting hole through cover ready for cable



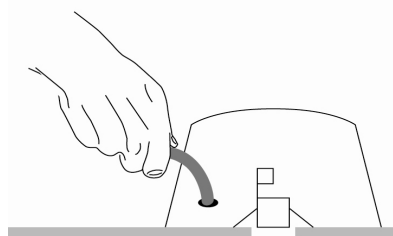
STEP THREE

If desired, seal around base of Loft Cover with mastic to ensure more secure fix



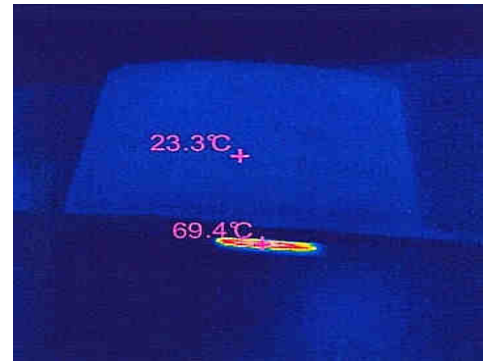
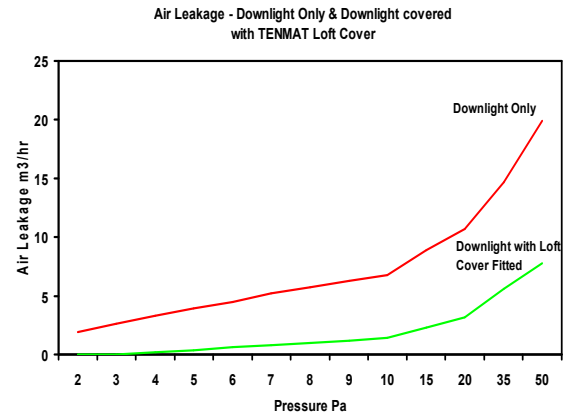
STEP TWO

Pass cable through cover and wire light as normal

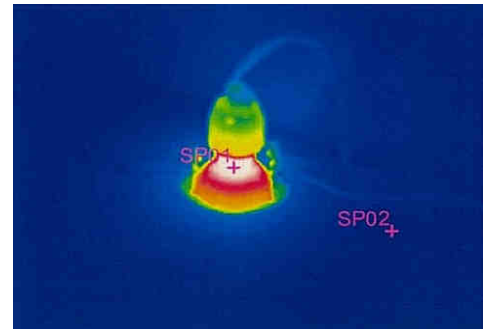


STEP FOUR

Place Loft Insulation over Loft Cover to ensure continuous insulation



Thermal Image with Loft Cover



Thermal Image without Loft Cover

TENMAT is a leading manufacturer of Fire Protection products and solutions, with almost 100 years experience.

All products and materials are manufactured at our headquarters in Trafford Park, Manchester, UK.

Renowned in the fire protection industry as an innovative development company, TENMAT'S wide range of high performance products and solutions meet the latest quality standards worldwide.

Agent / Distributor

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