

**ENVIROGRAF®**

THE GREAT LIGHTING COVER-UP!

Products 31 & 32 Data Sheet



DOWNLIGHTER COVERS AND FIRE TENTS TO PROTECT LIVES AND REDUCE NOISE

- Quick-fit installation
- Standard & acoustic versions
- Self-supporting covers
- Lightweight and flexible
- Extensive range of sizes
- Independently-tested
- Meets Doc B/E/L Regulations
- Meets IEE 16th Edition Regs

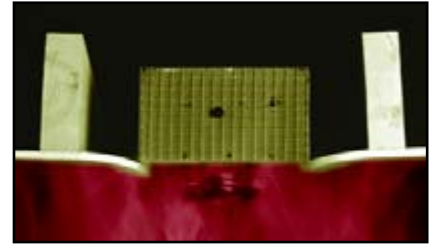
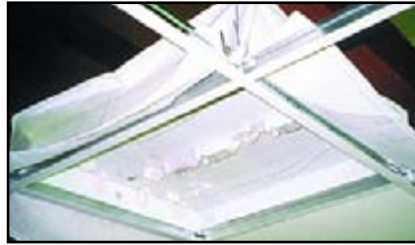


**PROTECTING PROPERTY
PROTECTING LIVES**



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INTRODUCTION

Downlighters and modular light fittings are now a popular feature in ceilings but, if not safely protected, they can become a fire hazard, because the hole cut in the ceiling compromises its fire resistance.

Tests have shown that certain types of fittings reach a temperature that could cause ignition of materials in the surrounding void, such as accumulated wood shavings, dust, or insulation products. The risk is particularly acute with the new-look low voltage fittings that can reach temperatures of up to 240°C.

To combat this problem, Envirograf® intumescent covers have been introduced which, when correctly fitted, prevent any breach of the fire barrier and reduce the heat emitted into the local area. They also allow full ventilation to the light fitting in normal circumstances but seal in a fire. The lightweight covers are easy to install, either from above or below, and they require no extra support. The covers are available as a flexible intumescent glasscloth downlighter cover, a rigid mesh cover with intumescent material for downlighters, and an intumescent glasscloth cover for recessed modular light fittings. An acoustic protection version of all three types is available.

ADVANTAGES

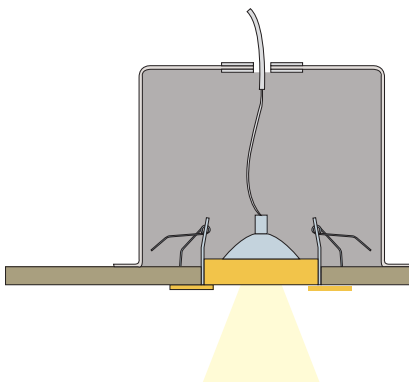
- Stops fire penetration into the ceiling void
- Reduces sound penetration
- Lightweight, easy to install, and they require no extra support
- Can be fitted from below
- Offers full ventilation, preventing the light fitting from overheating
- Cable entries are ready made, with an intumescent gasket surround
- Not affected by moisture
- Rot-proof
- Maintenance-free
- Economical
- Environmentally-friendly (CFCs and HFCs are not used in the manufacture of Envirograf® products)
- Can be used over recessed speakers
- Durable, heavy duty material.
- Envirograf® Covers offer a measure of insulation to the room below, reducing the heat escape through the recessed light, without jeopardising the ventilation required for the light fitting, yet maintaining a sound barrier above

STANDARDS & APPROVALS

Envirograf® intumescent covers have all been tested on full-size test rigs to BS476 Parts 21, 22, 23 (1987) and BS476 Part 23 Clause 5 (1987) for all types of ceilings, achieving 30 minutes, 60 minutes, and 240 minutes protection.

HEALTH & SAFETY

Envirograf® intumescent covers pose no known hazard to health.



FIRE TESTS

INTUMESCENT FLEXIBLE DOWNLIGHTER COVERS

PLASTERBOARD CEILING

Envirograf® downlighter covers underwent a fire resistance test in a plasterboard ceiling within a load-bearing structure 4550mm x 3500mm, incorporating light fittings covered with Envirograf® covers, employing the general procedures and criteria of BS476 Part 21 (1987)

Date of test: 3rd December 1996
Integrity achieved: 60 minutes
Insulation achieved: 60 minutes
Load-bearing capacity: 60 minutes
Certificate reference: TE88519
Test Establishment: LPC UK

Envirograf® downlighter covers underwent a fire resistance test on plasterboard, employing the general procedures and criteria of BS476, Part 22 (1987)

Date of test: 6th July 1994
Integrity achieved: 61 minutes
Certificate reference: IT367
Test establishment: TRADA UK

SUSPENDED CEILING

Envirograf® downlighter covers underwent a fire resistance test on a suspended ceiling, employing the general procedures and criteria of:-

BS476 Part 23 (1987), achieving 60 minutes of fire integrity,
Certificate reference: 10867 (non-load-bearing)

BS476 Part 23 Clause 5 (1987), achieving 88 minutes of fire integrity
Certificate reference: BTC10891F (load-bearing)

BS476 Part 20 (1987), achieving 67 minutes of fire integrity
Certificate reference: TE82310

CONCRETE CEILING

Envirograf® downlighter covers underwent a fire resistance test on a concrete-type material, employing the general procedures and criteria of BS476 Part 22 (1987)

Date of test: 4th February 1994
Integrity achieved: 240 minutes
Certificate reference: FR1739
Test establishment: TRADA UK

INTUMESCENT FIRE CAGE DOWNLIGHTER COVERS

Tested to BS476 Part 21 (1987), achieving 60 minutes and BS476 Part 23 Clause 5 (1987), achieving 88 minutes

INTUMESCENT FIRE TENT

Tested on fluorescent light fittings and air conditioning units to:-
BS476 Part 21 (1987), achieving 60 minutes and
BS476 Part 23 Clause 5 (1987), achieving 88 minutes

INTUMESCENT ACOUSTIC CAGES & COVERS

Tested at BTC UK: impact sound test BS EN ISO 140-6-1998 and airborne sound insulation test BS EN ISO140-3-1995

IMPORTANT NOTE

Please ensure that suspended ceilings have been tested with light fittings, and not just the ceiling without lights

INTUMESCENT FLEXIBLE DOWNLIGHTER COVER

PRODUCT APPLICATION

All ceilings should be fully erected before the Envirograf® downlighter covers are fitted. Do not cover with any insulation materials, as the fitting must be allowed to ventilate.

LIGHT FITTING CLEARANCE

Please allow a minimum of 40mm horizontal clearance and

15mm vertical clearance around downlighter fittings.

RECOMMENDATION

Where downlighter covers can be fitted from above, we recommend you use our intumescent fire cages (depicted below) for use in ceilings with fire ratings of 30 minutes, 60 minutes, 120 minutes, and 240 minutes.

ORDERING REFERENCES

Ref	Cover Diam	Cover Ht
DLC0	150mm	120mm
DLC1	130mm	70mm
DLC2	130mm	100mm
DLC3	130mm	140mm
DLC4	180mm	130mm
DLC5	180mm	170mm

Ref	Cover Diam	Cover Ht
DLC6	260mm	120mm
DLC7	260mm	230mm
DLC8	300mm	170mm
DLC9	350mm	230mm

Special sizes made to order

For downlighters with transformers, use these covers:-

Ref	Length	Width	Height
DSLVA	300mm	100mm	120mm
DSLVB	300mm	180mm	140mm
DSLVC	300mm	220mm	140mm
DSLVD	300mm	300mm	140mm

INTUMESCENT FIRE CAGE DOWNLIGHTER COVER

PRODUCT APPLICATION

For use in roof spaces or above suspended ceilings, with access from above. The intumescent fire cages fit over the light fitting and are adhered to the ceiling or suspension tile using the sachet of adhesive supplied with the Envirograf® intumescent fire cage.

LIGHT FITTING CLEARANCE

Use type FC intumescent fire cages to fit over mains voltage light fittings, and type FC-R intumescent fire cages to accommodate light fittings with transformers. Use of these fire cages enables access to the light fitting and transformer from below.

ORDERING REFERENCES

Ref	Length	Width	Height
FC 1	150mm	150mm	120mm
FC 2	150mm	150mm	170mm
FC 3	200mm	200mm	120mm
FC 4	200mm	200mm	170mm
FC 5	260mm	260mm	120mm
FC 6	260mm	260mm	170mm
FC 7	260mm	260mm	230mm
FC 8	300mm	300mm	120mm
FC 9	300mm	300mm	230mm
FC10	350mm	350mm	175mm

Ref	Length	Width	Height
FC 1R	325mm	150mm	120mm
FC 2R	325mm	150mm	170mm
FC 3R	375mm	200mm	120mm
FC 4R	375mm	200mm	170mm
FC 5R	435mm	260mm	120mm
FC 6R	435mm	260mm	170mm
FC 7R	435mm	260mm	230mm
FC 8R	475mm	300mm	120mm
FC 9R	475mm	300mm	230mm
FC10R	525mm	350mm	175mm

INTUMESCENT FIRE TENT FOR USE OVER RECESSED MODULAR LIGHT FITTINGS AND AIRCON UNITS

PRODUCT APPLICATION

All ceilings should be fully erected before the Envirograf® intumescent fire tents are fitted. Do not cover with any insulation

materials, as the fitting must be allowed to ventilate.

LIGHT FITTING CLEARANCE

A suitable clearance must be allowed all around the light fitting.

ORDERING REFERENCES

Ref	Length	Width	Height
FT1	350mm	300mm	150mm
FT2	650mm	600mm	150mm
FT4	1250mm	600mm	150mm
FT41	1250mm	300mm	150mm

Ref	Length	Width	Height
FT5	1550mm	600mm	150mm
FT6	1850mm	600mm	150mm
FT61	1850mm	300mm	150mm

The fire rating of all fire tents is one hour

ACOUSTIC CAGE, ACOUSTIC DOWNLIGHTER COVER, AND ACOUSTIC FIRE TENT

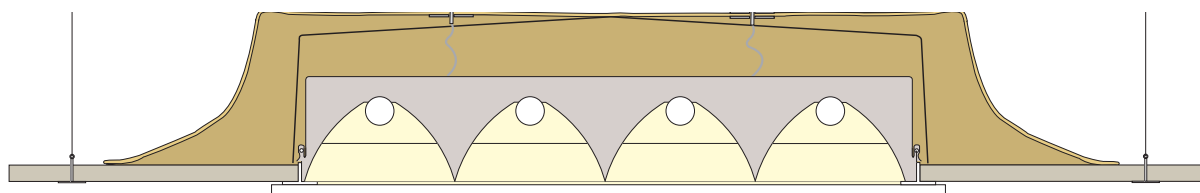
PRODUCT APPLICATION

Envirograf® acoustic covers have been developed for shop ceilings where apartments are above, or for multiple apartments above each other, to meet new legislation for both air-borne and impact sound. Tested to BS EN ISO 140-6-1998 and BS EN ISO140-3-1995. Although the acoustic covers are slightly larger

than the standard range of covers, due to the inclusion of the sound insulation material, they are still capable of passing through the hole size specified for the standard covers.

ORDERING

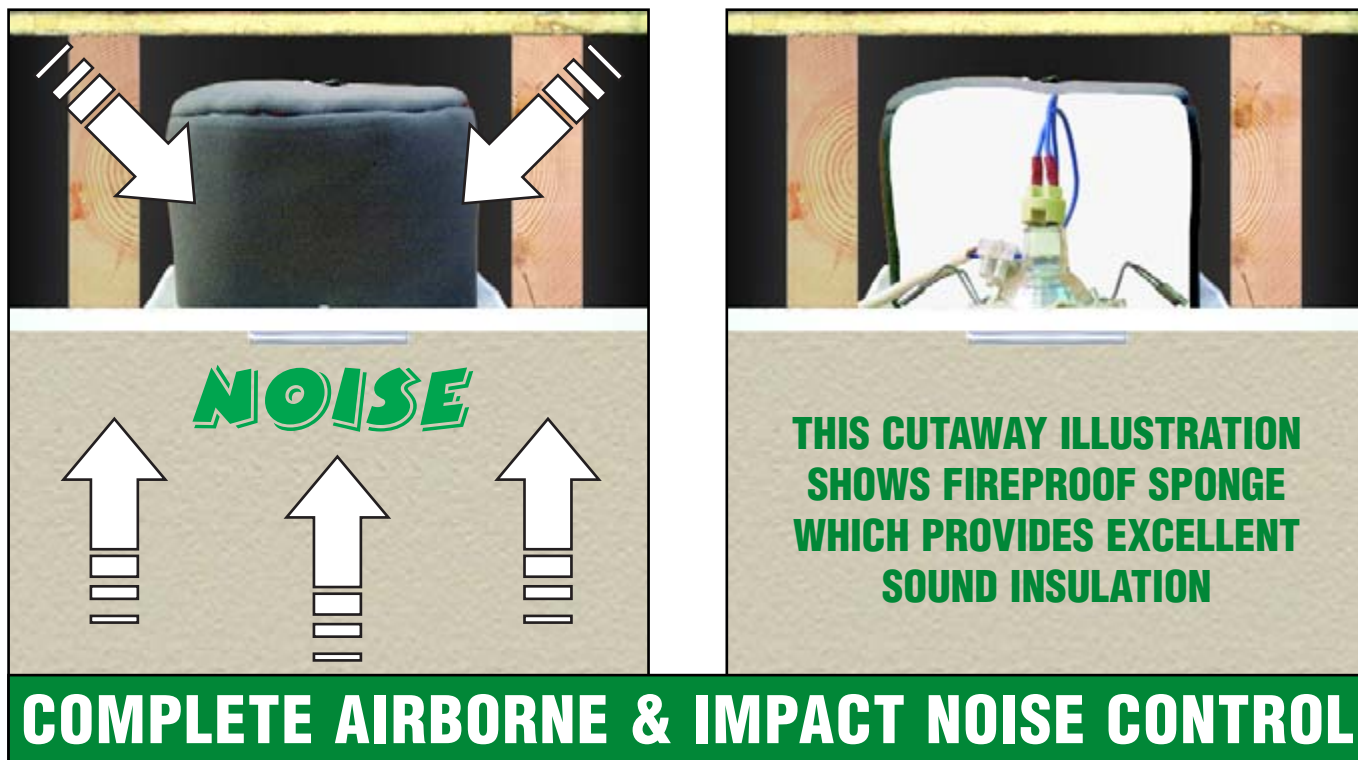
When ordering the acoustic range, simply add /AC after the existing references for downlighter covers, fire cages and tents.



FIRE PROTECTION & NOISE CONTROL

GET THE ENVIROGRAF® ADVANTAGE

- One-hour fire protection and acoustic noise protection all in one product
- Sound attenuation properties tested to comply with Documents E and L
- Extensive range of sizes available for both downlighters and luminaires



The diagram is split into two panels. The left panel shows a grey cylindrical downlighter cover with two white arrows pointing towards it from above. Below it, three white arrows point upwards towards the word "NOISE" written in green, stylized letters. The right panel shows a cutaway of a downlighter cover revealing a fireproof sponge interior. Below this cutaway, green text reads: "THIS CUTAWAY ILLUSTRATION SHOWS FIREPROOF SPONGE WHICH PROVIDES EXCELLENT SOUND INSULATION".

NOISE

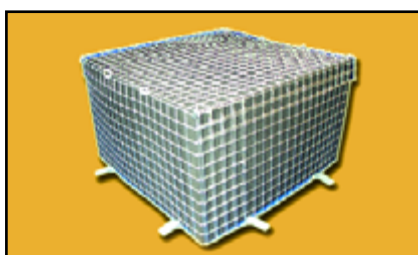
THIS CUTAWAY ILLUSTRATION SHOWS FIREPROOF SPONGE WHICH PROVIDES EXCELLENT SOUND INSULATION

COMPLETE AIRBORNE & IMPACT NOISE CONTROL

New fire resistance research into ceilings fitted with downlighters provides compelling fresh evidence that intumescent downlighter covers offer vital protection against the spread of flames and smoke from 30 minutes to 4 hours of fire protection. Without covers, only 4 minutes of fire protection is achieved.



Envirograf® downlighter covers and cages and modular lighting covers for suspended, plasterboard, and lath-and-plaster ceilings

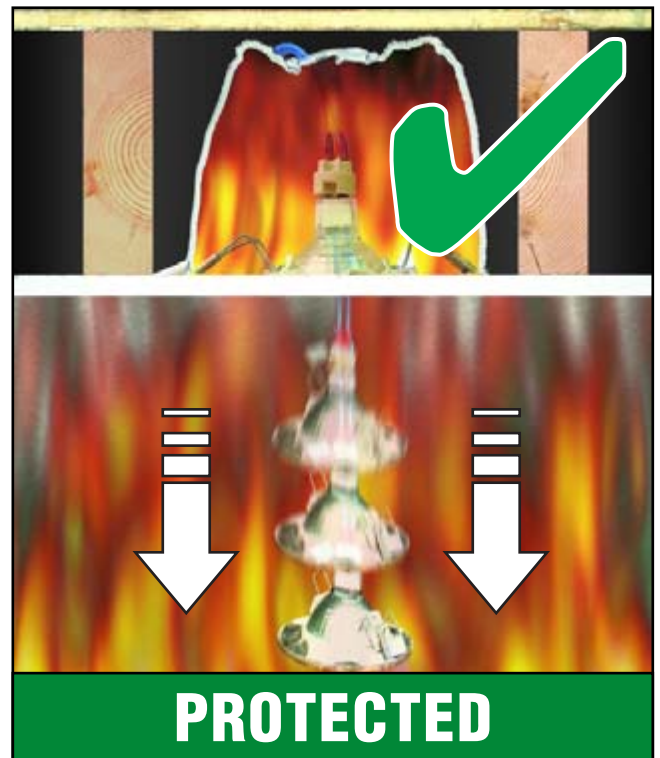
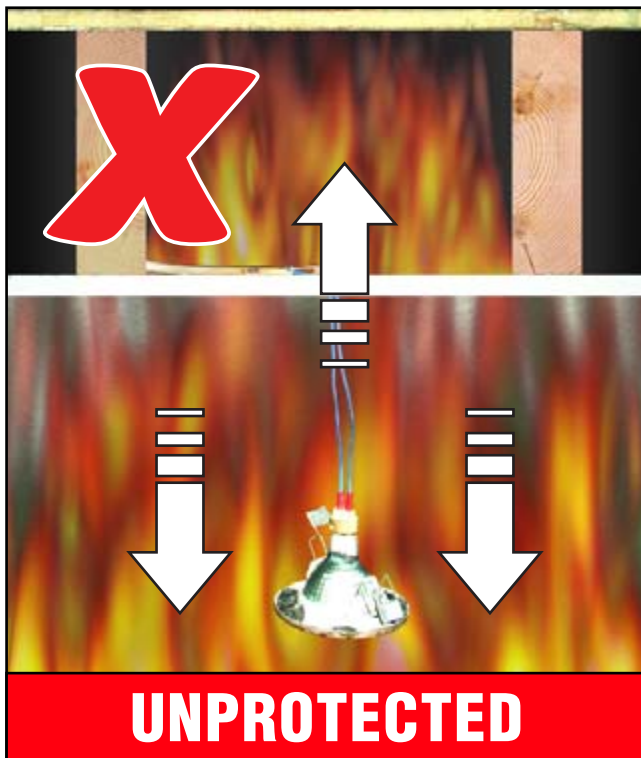


Envirograf® acoustic covers and cages for shops and apartments

FALLOUT IN LESS THAN 4 MINUTES

KNOW THE RISKS

- One-hour ceilings will lose light fittings in less than 4 minutes in a fire
- Insurance claims for upper floors could be compromised without covers
- Absence of covers risks cables, dust, insulation, and joists catching fire



THE FACTS SPEAK FOR THEMSELVES

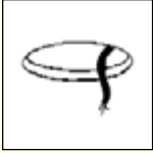
DON'T BECOME A DISASTER VICTIM!

- Every recessed light fitting without an intumescent cover is a disaster waiting to happen when fire breaks out
- Heat transmitted from the light fitting could ignite items such as cables, dust, insulation, and joists
- When fire breaks out below the light fitting, it will fall out in less than 4 minutes, and this could compromise insurance claims for the upper floors

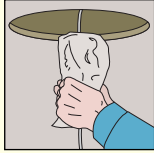
TAKE IMMEDIATE ACTION NOW!

- Fit Envirograf® standard lighting covers for fire protection
- Fit Envirograf® acoustic lighting covers for both fire and noise protection

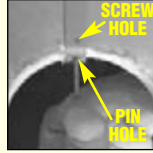
INSTALLATION OF INTUMESCENT FLEXIBLE DOWNLIGHTER COVER



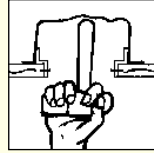
Pull the transformer cable through the hole.



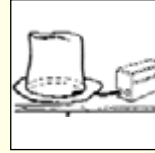
Squeeze the downlighter cover and push up into the hole. Hold the end with the brackets.



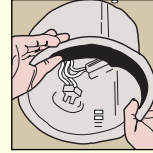
Whilst holding a fitting clip, align the pin hole with 12mm plasterboard and push one of the supplied fixing pins through the hole and into the plasterboard until fastened in place. Use optional No.6 screws in 9mm plasterboard.



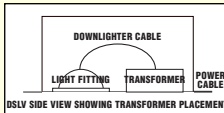
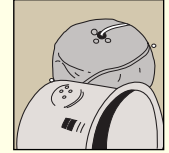
Push a hammer handle or other suitable object into the cover to open it out completely.



The finished cover is now ready for the light to be installed. Simply connect the light fitting and insert into the ceiling.



Alternatively, the cable can come through the vent holes in the top of the standard cover or through the marked hole in acoustic cover.

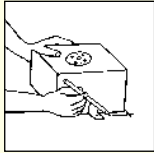


THE DSLV OPTION

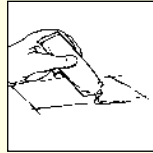
When a transformer is required inside the cover, you must use the Envirograf® DSLV range of covers. The cable entry is shown on the left.

INSTALLATION OF INTUMESCENT FIRE CAGE DOWNLIGHTER COVER

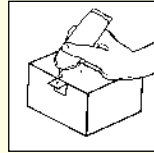
For use in situations where you can easily access the light fitting from above, such as loft space or above a suspended ceiling



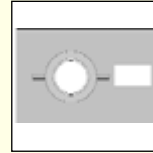
Clean the area thoroughly, then place the fire cage over the light fitting so that it is central inside the cage. Draw around the cage with a pen or pencil.



Apply the supplied intumescent FCM silicone adhesive liberally onto the previously-drawn line, at a width of 20mm.

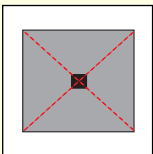


Feed the transformer cable through the ceiling hole.

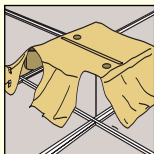


Ensure that the fire cage is large enough to contain a transformer inside, if using the FC-R type of cage.

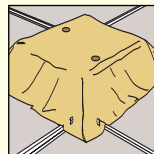
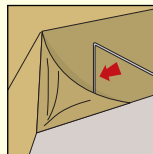
INSTALLATION OF INTUMESCENT FIRE TENT FOR USE OVER RECESSED MODULAR LIGHT FITTINGS AND AIR CONDITIONING UNITS



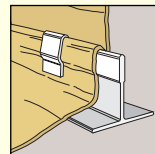
Place the tent on its back and thread the supplied rods through the central retaining patch. For larger tents, thread through the central and outer patches.



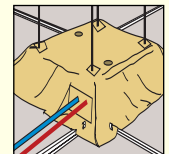
Place the tent over the light fitting and feed the cable through the ventilation hole, connecting it to the light fitting according to the manufacturer's instructions. Go to each corner and pull the material away from the fitting over the T-bar and fix the material to the T-bar with the supplied clips. Pinch each clip with a pair of pliers to fix tightly.



With the tent laid out, return it to its normal upright position and insert the rod ends into their pockets placed at each corner of the tent.



Intumescent card is fixed to the top of the tent to provide entry points for support rods or cables or pipes to pass through. Note: where the unit is already fitted, seams can be made to allow the cover to be placed over the unit and the joints can be sealed with the supplied adhesive. VERY EASY TO FIT



PLEASE NOTE:

FT2 Acoustic Tent does not need a supporting rod
The FT4/5 Acoustic Tents have a single supporting rod through the middle of the tent.
The FT6/7/8 Acoustic Tents have two supporting rods

REGIONAL OFFICE