

INTUMESCENT DOWNLIGHTER COVERS AND CAGES

All Electrical Products to comply with the revised 17th Edition of the IEE Regulations and Document B of UK Building Regulations



DESCRIPTION

With the increased use of downlighters, the integrity of the plasterboard and suspended ceilings can be reduced to approximately 4 minutes protection. Envirograf® downlighter covers are used to restore the integrity required by British Standards. The covers are available in many standard sizes, and other sizes can be made to order. They are easily installed in about five minutes from below or above the ceiling. With cable entries on top, the intumescent covers are ventilated to avoid light fittings overheating. Cables can also be passed under the the rim of the cover for connections to transformers. Only the light fitting penetration is required to be protected, not the transformer.

USE

For use over downlighters and loudspeakers, to maintain the integrity of fire-rated ceilings.

PERFORMANCE

This product has been tested employing the general procedures of BS476 Parts 22, 23, and 23 (Clause 5) (1987), in various ceiling and floor constructions. Integrity results of up to 240 minutes have been achieved. Also tested to NEN 6069 (1997).

ORDERING REFERENCES :

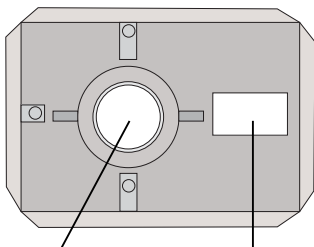
PATENTED

Standard Reference	Standard Light Fitting			Light Fitting & Transformer Combined			
	Length	Width	Height	Reference	Length	Width	Height
DLC0	150mm	150mm	120mm	DSLVA	300mm	100mm	120mm
DLC1	130mm	130mm	70mm	DSLVB	300mm	180mm	140mm
DLC2	130mm	130mm	100mm	DSLVC	300mm	220mm	140mm
DLC3	130mm	130mm	140mm	DSLVD	300mm	300mm	140mm
DLC4	180mm	180mm	130mm				
DLC5	180mm	180mm	170mm				
DLC6	260mm	260mm	120mm				
DLC7	260mm	260mm	230mm				
DLC8	300mm	300mm	170mm				
DLC9	350mm	350mm	230mm				

NB: Allow clearances around light fittings: 40mm horizontal / 15mm vertical

Special sizes made to order. For advice on specifications, see contact details on back cover.

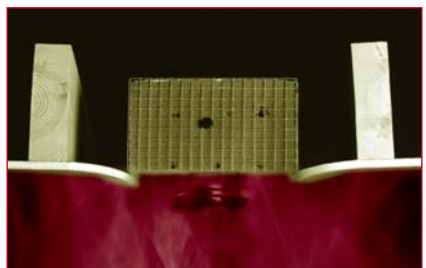
Envirograf® DSLV Covers are made to measure for use where transformers or chokes are connected to the light fitting.



Light Fitting

Transformer

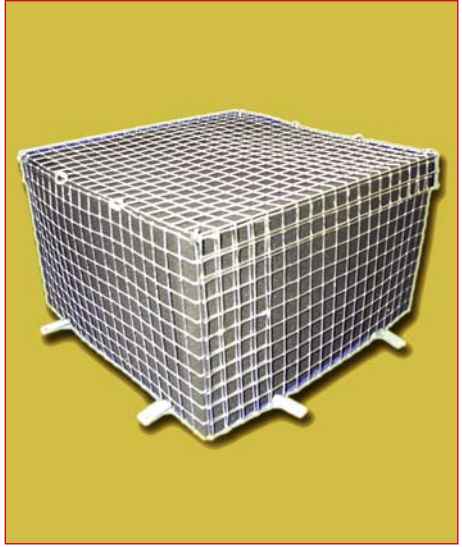
Tested to BS476 Parts 22, 23, and 23 Clause 5 (1987). Integrity 88 minutes.



Where the cover can be fitted over a suspended ceiling in roof areas or where floorboards are already lifted, use the Envirograf® Fire Cage. There are two types: one for light fittings (FC) and the other for light fittings with transformers (FC/R). A new acoustic type is available – see next page for details. See price list for full details of all types of downlighter covers.

ACOUSTIC DOWNLIGHTER COVERS AND CAGES

All Electrical Products to comply with the revised 17th Edition of the IEE Regulations and Document B of UK Building Regulations. Acoustic covers to comply with the requirements of 'Robust Details'



DESCRIPTION

Sound absorption and fire protection of downlighters can now be achieved with the Envirograf® acoustic downlighter cover and fire cage range. After a long period of research and testing, the problem of protection and overheating has been solved. The new covers allow light fittings to operate without overheating, whilst maintaining the fire rating integrity of the ceiling to which they are fitted, thus enabling 30 minutes or 60 minutes of fire rating to be maintained. (See Product 31 for tents for fluorescent and other light fittings).

USE

Envirograf® acoustic downlighter covers can be used in areas that require good absorption of airborne and impact sound, such as businesses and shops below residential apartments and between floors of residential apartments. Acoustic covers have been fully tested at The Building Test Centre. Reports are available on request.

PERFORMANCE

Only Envirograf® covers have passed all relevant British Standards tests on all types of ceilings, complying with Document B and E (acoustic requirements) of UK Building Regulations and the revised 17th Edition IEE Regulations. Also tested to NEN 6069 (1997).

ORDERING REFERENCES :



Ref	Downlighter Cover Size	
	Diameter	Height
DLC0/AC	150mm	120mm
DLC1/AC	130mm	70mm
DLC2/AC	130mm	100mm
DLC3/AC	130mm	140mm
DLC4/AC	180mm	130mm
DLC5/AC	180mm	170mm
DLC6/AC	260mm	120mm
DLC7/AC	260mm	230mm
DLC8/AC	300mm	170mm
DLC9/AC	350mm	230mm

Special sizes made to order. For advice on specifications, see contact details on back cover.

Cage Type Reference	Standard Light Fitting			Light Fitting & Transformer Combined			
	Length	Width	Height	Reference	Length	Width	Height
FC 1/AC	190mm	190mm	140mm	FC 1R/AC	365mm	190mm	140mm
FC 2/AC	190mm	190mm	190mm	FC 2R/AC	365mm	190mm	190mm
FC 3/AC	240mm	240mm	140mm	FC 3R/AC	415mm	240mm	140mm
FC 4/AC	240mm	240mm	190mm	FC 4R/AC	415mm	240mm	190mm
FC 5/AC	300mm	300mm	140mm	FC 5R/AC	475mm	300mm	140mm
FC 6/AC	300mm	300mm	190mm	FC 6R/AC	475mm	300mm	190mm
FC 7/AC	300mm	300mm	250mm	FC 7R/AC	475mm	300mm	250mm
FC 8/AC	340mm	340mm	140mm	FC 8R/AC	515mm	340mm	140mm
FC 9/AC	340mm	340mm	250mm	FC 9R/AC	515mm	340mm	250mm
FC10/AC	390mm	390mm	195mm	FC10R/AC	565mm	390mm	195mm

ACOUSTIC AND LOFT COVERS FOR USE OVER RECESSED LIGHT FITTINGS



Envirograf® acoustic covers have been on sale for many years, meeting the requirements of Document E of UK Building Regulations for impact and airborne sound. New loft requirements mean that there should be more insulation in both domestic and commercial buildings, so the Envirograf® covers have been made stronger to take insulation material over the top, or the insulation material can be cut and fit around the cover. This new Envirograf® cover meets the thermal requirements of Document L of UK Building Regulations. Although there are now fire-rated downlighters on the market, these are a fire hazard if the fire is below the roof. They will hold in the ceiling but, even without a fire, the metal canisters, in lots of cases, are reaching 200°C and they will ignite paper, cloth, and many insulation materials. In a fire, the temperature reached inside the canister is in excess of 500°C.

The new Envirograf® covers ventilate, thus dispersing heat, and seal up in a fire, stopping the heat and flames from getting into the roof space. Some people say that downlighter covers are not required, especially for domestic situations. In tests carried out by laboratories on this type of fire, from ignition in a lounge or bedroom, the fire can reach 350°C in just 3 minutes, and in 2 minutes 50 seconds ceiling paper can be alight and the flames can be penetrating into the light fittings. Some people have no idea how quickly fire can travel or how quickly the temperature can rise.

Tests carried out by Building Research shows the ferocity of fire in a lounge (see the picture sequence below). Envirograf® acoustic loft covers are made in many sizes to suit all recessed light fittings.



NEW ENERGY-SAVING FIRE PROTECTION DOWNLIGHTER ADAPTER NOW AVAILABLE!



ADVANTAGES

- Potential energy saving of up to 40W per unit
- Change to low energy long-lasting bulbs with major cost savings
- Easy to install adaptor
- Offers up to 66 minutes of fire protection
- Can upgrade existing downlighters to use low energy bulbs in 9W, 11W, 15W, and 20W ratings and BC or ES type holders

Current fire legislation requires effective fire safety systems for ceilings and floors in both commercial and private buildings. Downlighters, whilst offering an attractive lighting solution, can pose a real danger to the fire integrity of the building for two main reasons:

1. Holes are cut into the ceiling for the light units, compromising the fire resistance of the ceiling and, because lamp units can operate at extremely high temperatures, this presents an ignition risk which could cause a fire to start and spread.
2. Energy-saving has become a major priority for building owners and occupiers. Downlighters can require up to 50W per unit. Ceilings in many commercial buildings may contain a large number of this type of lamp, resulting in extremely high energy bills.

An Envirograf® retro-fitting adaptor has been developed to convert your existing downlighter fittings into low-energy units, potentially saving up to 40W per light, whilst simultaneously providing 66 minutes of fire protection.

EARTH TO FITTING

DA1



BAYONET LAMPHOLDER EARTHING

DA2



ORDERING REFERENCES :

PATENTED

DA1 is supplied with a standard white lamp holder with an earth terminal
DA2 is supplied with a brass lamp holder including earth terminal

Add suffix /BC (bayonet cap) or /ES (Edison screw) to the reference for fitting type

When ordering, please specify the original light fitting's product name and code or send a sample of the fitting