

ANEMOSTAT FIRE RATED FUSIBLE LINK LOUVRES

The FLDL (previously known as FLDL-UL) is a self-attaching fusible link louvre successfully fire tested for use on steel and timber doors. In normal operation the blades can be opened and shut manually by means of a finger pull (always mounted on lower right hand side). In the event of fire, it has a fusible link made of lead situated above a heat slot in the top of the frame which parts at 165°F (74°C) and allows the stainless steel spring mechanism to snap the louvre blades shut. A simple adjustable louvre with similar mechanism, but without the fusible link (ref ADL) is shown on page 106. It complements the standard AFDL self-attaching louvre already used by many door companies and available ex-stock, as detailed on pages 100-101.

The FLDL is a self-attaching louvre (i.e. no holes need be drilled in the door) with concealed fixings one side, and offers 2 hours integrity on steel doors up to a maximum aperture size of 610x610mm. Copy of Exova Warringtonfire Report available on request. It is available from stock in standard galvanised grey primed finish, suitable for powder coating and in stainless steel Grades 304 and 316 to special order.

The FLDL has also been fire tested at Chiltern Fire and is suitable for 30 minutes integrity on 44mm thick timber fire doors using **AL134PSA intumescent aperture liner** and 60 minutes integrity on 54mm thick timber fire doors using **AL218PSA intumescent aperture liner**. The intumescent aperture liners are self-adhesive and should line all four sides of the door cut-out before the louvre is installed in timber doors.

APPLICATIONS

Fusible link louvres are designed to be used on fire rated doors to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but the FLDL blades will snap shut in the event of fire and maintain the integrity of fire doors and prevent the spread of flames. Examples of applications are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.

DOOR THICKNESS

Previously only available to suit 44mm thick doors, the FLDL is now manufactured in three versions to suit doors from 44mm - 65mm thick. FLDL-W and FLDL-W1 have expandable sleeves.

FLDL - standard to suit doors 44mm thick.

FLDL-W - expandable to suit doors 45-55mm thick.

FLDL-W1 - expandable to suit doors 55-65mm thick.

FASTENERS

It is self-attaching through the cut-out in the door using #8 Phillips head sheet metal screws through countersunk mounting holes to attach the auxiliary frame to the louvre core, thus eliminating the need to drill holes in the door. This method saves time and installation labour and leaves the corridor side of the frame free of fasteners for added security, and a cleaner aesthetic appearance. Given that there are now three versions of this louvre to suit different door thicknesses, three different screw lengths are supplied with them.

#8 x 25mm BZP Phillips head sheet metal screw to suit FLDL (44mm thick doors).

#8 x 38mm BZP Phillips head sheet metal screw to suit FLDL-W (45-55mm thick doors).

#8 x 44mm BZP Phillips head sheet metal screw to suit FLDL-W1 (55-65mm thick doors).

These are supplied with the louvres. Optional Snake eye or Torx screws are available for applications where security is required on the external face. See page 114.

SPRING ADJUSTMENT

The louvre blades can be manually opened and closed to allow or prevent air flow. The blades are tensioned by a "spring clip" at the top of the internal face of the louvre. Slackening off the spring clip makes the louvre easier to operate with the operating lever.

POWDER COATING

Before powder coating this product it will be necessary to remove the fusible link as this may be activated by the temperatures involved in the powder coating process. It can easily be replaced after powder coating. In case of difficulty we are able to forward you an instruction video. Gloves and safety glasses should be worn when removing and replacing the fusible link. The louvre should be powder coated with the blades in the open position and care should be taken to ensure that blades operate correctly immediately after powder coating and before the paint dries. Spare fusible links are available, ref SFL.

PRODUCT SPECIFICATION

Material:	18GA (1.2mm) galvanised steel - frame and louvre blades. 16GA (1.5mm) galvanised steel - inner support members.
Finishes:	Galvanised steel grey primed - other finishes including stainless steel Grade 304 and Grade 316 available to order.
Louvre mesh:	The operating finger pull makes it difficult to use mesh with this louvre.
Free area:	40% free area.

POSITION IN DOOR

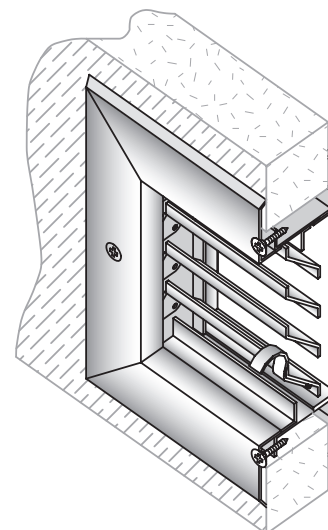
Please note the top of the louvre should be mounted no higher than 1000mm from finished floor level. If an aperture reinforcing channel is fitted then it is imperative this does not interfere with the fusible link mechanism located along the top edge. We recommend at least a 6mm recess in steel doors to ensure free operation in the event of fire.

SUITABLE FOR STEEL FIRE DOORS

Two hours integrity on steel doors, maximum aperture size 610x610mm to BS 476-22:1987. Copy of Assessment Report available upon request. This product is also UL Listed in the USA, File #R7776, details available on request.

SUITABLE FOR TIMBER FIRE DOORS

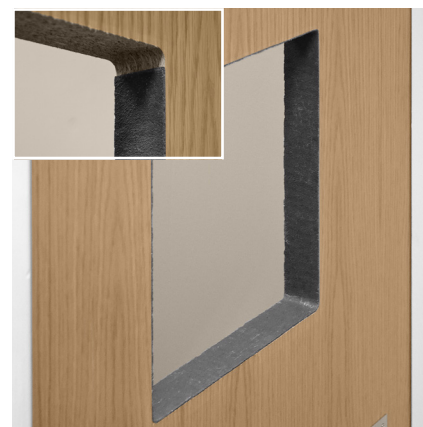
The FLDL louvre has been included in a successful 30 minute fire test on a 44mm thick timber door (38 minutes actual) and a 60 minute fire test on a 54mm thick door (65 minutes actual), both to BS EN 1634-1:2008. BM TRADA Report Chilt/RF13260 refers. Copies of test report available upon request. No hardwood lipping is required. Intumescent aperture liners must be used on timber fire doors.



FLDL FUSIBLE LINK (TOP VIEW)



OPERATING / FIXING SIDE



APERTURE LINER