AIR TRANSFER GRILLES

LVN25S

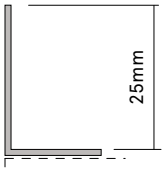
HIGH PERFORMANCE NON-VISION FIRE + SMOKE AIR TRANSFER GRILLE

The LVN25S provides a unique solution to the problem of containing both fire and smoke in emergency conditions yet offering good air transfer through doors in everyday use. Using the same intumescent louvred slat configuration as the LVN25, but incorporating an electro mechanically operated smoke shutter mechanism. Can provide up to 60 minutes fire and smoke resistance.



Key benefits

- Contains cold smoke + toxic gases remote from source of fire
- Simple installation
- Auto reset + fail-safe
- Safe low DC voltage
- Status reporting + auto-cycling via Talkback Damper Control Monitor (DCM)
- Optional audio warning facility
- Connects to fire panel +/or Building Management System (BMS)
- BMS alarm notification via Alarm Monitoring System (AMS)
- Nominal 5mA current open/closed
- Max 200mA in operation
- Allows bi-directional airflow
- Louvred slats give privacy.



LV2516
steel flange



LVN25S with
integral steel flange

AIR TRANSFER GRILLE SELECTOR (MM)

ATG NOMINAL SIZE	200 x 200	300 x 300	400 x 400
ATG ACTUAL SIZE	198 x 198	298 x 298	398 x 398
FLANGE SIZE	201 x 201	301 x 301	401 x 401
APERTURE SIZE	209 x 209	309 x 309	409 x 409

SYSTEM SPECIFICATIONS

Test evidence
- Fire: BS 476-20 & 22:1987.
- Smoke: BS 476-31.1:1983 (shutterplate).

Performance
- Can be used to provide up to 60 minutes resistance to fire + cold smoke.
- FD30: minimum door thickness of 50mm.
- FD60: minimum door thickness of 54mm.
- EI rating of 60 minutes in accordance with BS 476 (Test report: Applus 19/19940-1428).

Size
- Width: 200mm - 400mm (in 50mm increments).
- Height: 200mm - 400mm (in 50mm increments).
- Square and rectangle options available.

Thickness
- 2 pieces x 25mm.

Free area
- Approx 30% free area.

Finish
- Silver as standard.

Application
- Suitable for FD30 & FD60 doors, greater than 50mm.
- Note: in applications where high levels of humidity or wetness are anticipated, please speak to our Technical Department for alternatives.

Orientation
- LVN25S must be used in the vertical plane.

Positional requirements
- Certifire: The upper edge of the grille shall be no higher than 800mm from floor level.
- Test Report Applus 19/19940-1428: The upper edge of the grille shall be no higher than 1350mm from floor level.

Material
- Rigid PVC slats with an intumescent core.
- Steel flange.
- Electro mechanically operated smoke shutter mechanism.

Fixing
- Requires an aperture 9mm over size. e.g. a 300mm x 300mm needs an aperture 309mm x 309mm to accommodate the flange and liner.
- Screwed into door with an aperture lined with Lorient intumescent liner (B24402).

Use with
- Talkback damper control system.
- Conductor hinges or door loop (EA280). To be fitted with MAP intumescent kit and intumescent sleeve. **Failure to install the intumescent protection will invalidate the fire test evidence.**
- Optional Alarm Monitoring System (AMS) and battery backup.

Certification
certifire (CF564)

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AIR TRANSFER GRILLES

EA280 DOOR LOOP

The ABLOY EA280 Concealed Door Loop is used with fire and smoke resisting air transfer grilles to enable the discreet and uninterrupted transfer of power from the door frame into the door leaf. Designed for a clean, concealed finish, the door loop is completely hidden when the door is closed, preserving the door's appearance while maintaining functionality.

Suitable for doors that open up to 120°, where the hinge pin is within 20mm of the frame, it supports a wire bundle up to 7.5mm in diameter, and it is recommended to use multicore cable because of its increased bending strength.

Cable way with intumescent sleeve
(supplied as part of the door loop kit)







EA280 Door Loop with intumescent protection kit

SYSTEM SPECIFICATIONS

Test evidence
- Fire: BS EN 1634-1:2014+A1:2018.
- Intumescent cladding kit must be used: 1mm FD30 / 2mm FD60.

Size
- Overall height: 323mm.
- Width: 24mm.
- Depth: 17mm.

Max. cable diameter
- 7.5mm.

Intumescent sleeve for cable way
- Internal diameter: 5mm
- Overall diameter: 9mm
- Routing diameter: 10mm
- Length: 1000mm.

Intumescent protection kit
- Intumescent protection kit supplied.
- 1 x 1m of door cable/intumescent sleeve.

Material
- Available in a bright chrome finish.

Application
- Suitable for FD30 & FD60 timber fire doors.

Use with
- Talkback damper control system.
- LVN20S / LVN25S.

Location
- Hanging edge of door leaf.

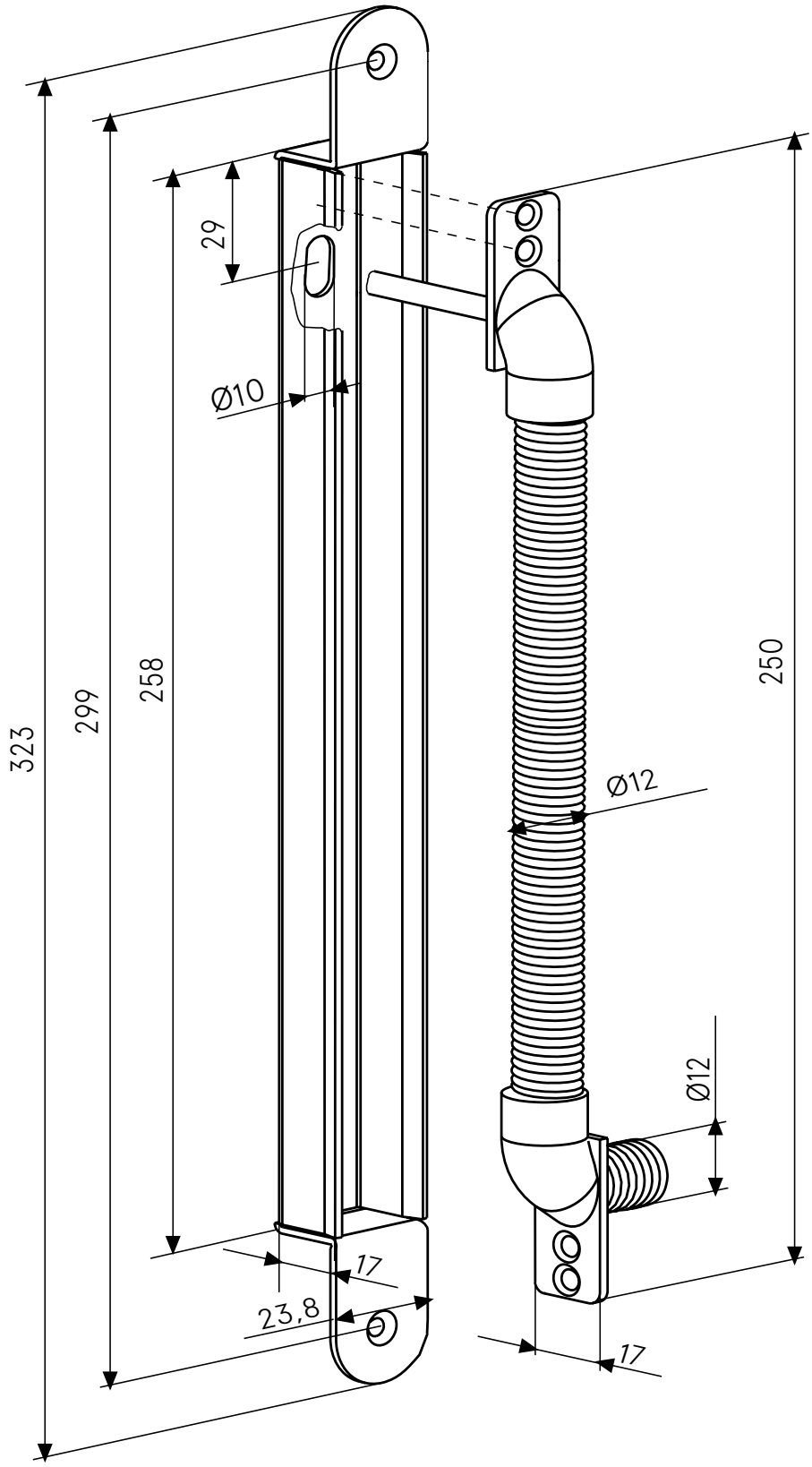
Fixing
- To be fitted with MAP intumescent protection kit: 1mm FD30 / 2mm FD60.
- Failure to install the intumescent protection, will invalidate the fire test evidence.

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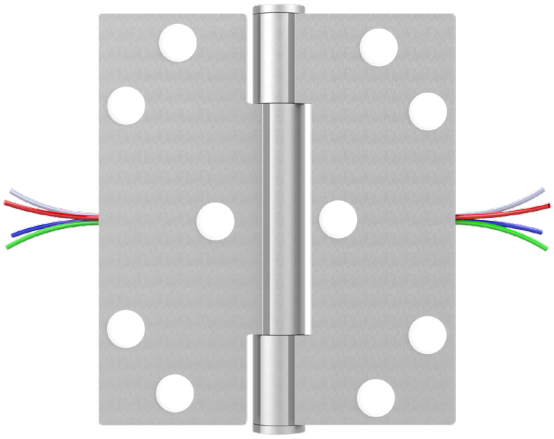
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AIR TRANSFER GRILLES

CONDUCTOR HINGE

Our electrical conductor hinges designed for concealed transfer of power from fire + smoke air transfer grilles into the door leaf. The hinge utilises advanced polymer bushes to provide a totally maintenance free, low friction hinge.

Tested to BS EN 1935:2002 and Certifire Approved.
Capable of carrying 24v at 2 amps.



Conductor hinge



Cable way with intumescent sleeve
(supplied as part of the hinge kit)

SYSTEM SPECIFICATIONS

Test evidence
- Building hardware: BS EN 1935:2002.
- CE Certificate no.: 2812-CPR-AC0063.
- Durability: Tested to 200,000 cycles.

Size
- Height: 100mm.
- Width: 88mm.
- Thickness: 3mm.

Cable detail
- Standard length: 600mm frame side and 1000mm leaf side.
- 4-core cable supplied as standard (3-core + spare). Other options available for special order.

Hinge kit
- 2 x butt hinges & 1 x conductor hinge (square corners).
- 6 x Mono-Ammonium Phosphate hinge pads 100 x 35 x 1mm with s/a backing.
- 1 x 1m of door cable/intumescent sleeve.

Material
- Brushed stainless steel 304 as standard. 316 stainless steel available to special order.

Application
- Suitable for timber fire doors.
- Minimum door thickness 44mm.
- 30 and 60 minute timber and mineral-based assemblies.
- Maximum leaf weight: 120kg.

Use with
- Talkback damper control system.
- LVN20S / LVN25S.

Location
- Load bearing hinge may be placed at lower hinge position or mid hinge position.

Intumescent sleeve for cable way
- Internal diameter: 5mm
- Overall diameter: 9mm
- Routing diameter: 10mm
- Length: 1000mm.

Fixing
- To be fitted with 1mm MAP intumescent hinge pads.
- Failure to install the intumescent protection, will invalidate the Certifire Certificate (CF209).
- Supplied with manufacturers wood screws (M5 x 32mm).

Certification
certifire
(CF209)

Classification
4 (1-4) | 7 (1-7) | 6 (0-7) | 1 (0/1) | 1 (0/1) | 2/4 (0-4) | 0 (0/1) | 13 (1-14)

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CONDUCTOR HINGE

Load bearing hinge may be placed at lower hinge position or mid hinge position for power transfer to air transfer grilles and/or powered lock sets.

