

AIR TRANSFER GRILLES

LVH44S

HIGH PERFORMANCE FIRE + SMOKE AIR TRANSFER GRILLE

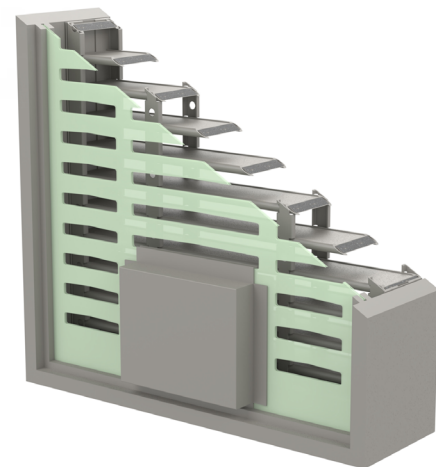
FIRE + SMOKE RESISTANT AIR TRANSFER GRILLES

These products provide a unique solution to the problem of containing both fire and smoke in emergency conditions yet offering good air transfer through apertures in elements of building construction. Using the same intumescent configuration as the LVH44, but incorporating an electro mechanically operated smoke shutter mechanism. Can provide up to 120 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 +/- BMS
- ▶ BMS alarm notification via Alarm Monitoring System (AMS)
- ▶ Nominal 5mA current open/closed
- ▶ Max 200mA in operation
- ▶ Allows bi-direction airflow.



LVH44S

STANDARD SIZES AVAILABLE (MM)

WIDTH	200	250	300	350	400	450	500	550	600
HEIGHT	200	250	300	350	400	450	500	550	600

- ▶▶ Other non-standard sizes may be available – please ask for details. **Note:** The LVH44S is housed within a 20mm non-combustible enclosure. Aperture sizes should take account of the 40mm excess in height/width. Such that for a 200x200mm LVH44S, then the overall size with enclosure, will be 240x240mm.

SYSTEM SPECIFICATIONS

Test evidence

- ▶ Fire: BS 476-20 & 22:1987.
- ▶ Fire: BS EN 1634-1:2014.
- ▶ Fire: BS EN 1364-5:2017.
- ▶ Smoke: BS 476-31.1:1983 (shutterplate).

Performance

- ▶ Can be used to provide up to 120 minutes resistance to fire + cold smoke.
- ▶ EI rating of 120 minutes when used in conjunction with a cover grille.

Size

- ▶ Width: 200mm – 600mm (in 50mm increments).
- ▶ Height: 150mm – 600mm (in 50mm increments).

Minimum wall depth

- ▶ Minimum wall thickness 95mm.

Free area

- ▶ Approx 30% free area.

Application

- ▶ Suitable for rigid + flexible walls.

Positional requirements

- ▶ The upper edge of the grille shall be no higher than 3000mm from floor level.
- ▶ The lower edge of the grille shall be no closer than 400mm to floor level.

Finish

- ▶ Silver as standard.

Material

- ▶ Z275 galvanised steel.
- ▶ Metal slats with an intumescent core.
- ▶ Electro mechanically operated smoke shutter mechanism.

Orientation

- ▶ LVH44S is best suited in the vertical plane.

Fixing

- ▶ Each fire + smoke air transfer grille is manufactured to size. When ordering please ensure the aperture can accommodate the non-combustible housing and allow up to a 5mm gap around the perimeter.
- ▶ Screwed and bedded in Loriant intumescent sealant.

Use with

- ▶ Talkback damper control system.
- ▶ Optional Alarm Monitoring System (AMS) and battery backup.
- ▶ Optional cover grille.

Specification