

AIR TRANSFER GRILLES

LVH44S

HIGH PERFORMANCE FIRE + SMOKE DAMPER

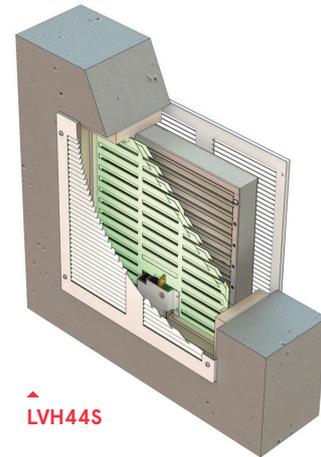
These products provide a unique solution to the problem of containing both fire and smoke in emergency conditions yet offering good air transfer through apertures in elements of building construction. Using the same intumescent configuration as the LVH44, but incorporating an electro mechanically operated smoke shutter mechanism. Can provide up to 120 minutes fire and smoke resistance.



FIRE + SMOKE RESISTANT AIR TRANSFER GRILLES

Key benefits

- ▶ Contains cold smoke + toxic gases remote from source of fire
- ▶ Simple installation
- ▶ Auto reset + failsafe
- ▶ Safe low DC voltage
- ▶ Status reporting + auto-cycling via Talkback Damper Control Monitor (DCM)
- ▶ Optional audio warning facility
- ▶ Connects to fire panel +/- or 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.

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 and cold smoke.
- ▶ EI rating of 120 minutes when used in conjunction with a cover grille.

Size

- ▶ Width: 100mm - 600mm (in 25mm increments).
- ▶ Height: 100mm - 600mm (in 25mm increments).

Thickness

- ▶ 47mm.

Wall thickness

- ▶ Minimum thickness 80mm.

Free area

- ▶ Approx 60% free area.

Application

- ▶ Suitable for 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 damper is manufactured 2mm less than a nominal aperture size to provide clearance when installed in a duct or other aperture of the same nominal dimensions. e.g. a 198mm x 198mm nominal size damper will suit a 200mm x 200mm aperture.
- ▶ Screwed and bedded in Lorient intumescent sealant.

Use with

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