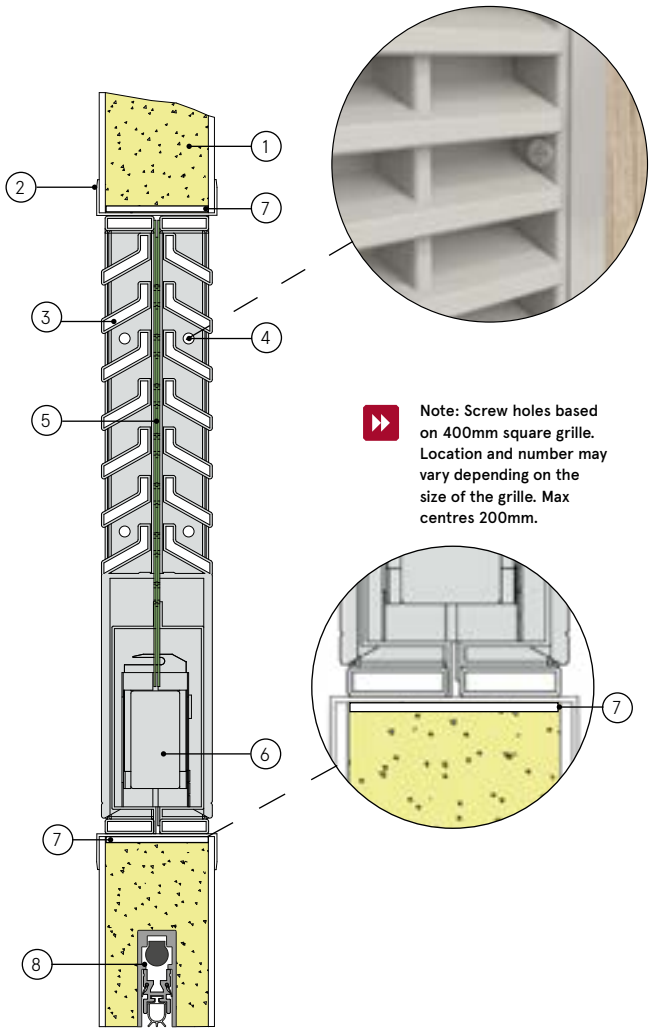
FIRE DOOR 9

LVN25S NON-VISION FIRE + SMOKE AIR TRANSFER GRILLE INTO TIMBER FIRE DOOR

	DESCRIPTION
1	Minimum 50mm thick timber fire door
2	Steel or aluminium mounting flange
3	Horizontal intumescent louvred slats
4	Air transfer grille to door fasteners - 40mm wood screws
5	Hit + miss smoke control plates. Central plate moves, outer plates fixed
6	Servo driven actuator
7	Intumescent liner (LX5002 for 50mm thick doors or LX5402 for 54mm thick doors) between the air transfer grille and the door
8	Drop seal (optional)
	In order to comply with CF564, the upper edge of the grille shall be no higher than 800mm from floor level. Consult door manufacturer before cutting out in relation to permissable aperture sizes and locations
	If the door leaf core does not comprise a solid timber lamel core (i.e. a core of chipboard, flaxboard etc.), the aperture provided in the leaf should be lined to full width using hardwood, with a minimum density of 650kg/m^3 and a thickness of at least 6mm. This hardwood liner may be omitted should the leaf have been tested.



Note: Screw holes based on 400mm square grille. Location and number may vary depending on the size of the grille. Max centres 200mm.

CONTENTS

- LVN25S fire + smoke resistant air transfer grille
- Lorient intumescent liner (LX5002/LX5402)
- Mounting flange
- Wiring instructions

TOOLS REQUIRED

- 40mm wood screws
- Power drill
- Screw driver

certifire
(CF564)

LVN25S into a timber fire door

FD30S

Fire Resistance in accordance with

BS 476-22:1987

Approval Ref

CF564

Max single cell size

400x400mm / 0.16m^2 at up to 800mm above FFL

Requires an aperture 9mm over size. e.g. a 300mm x 300mm needs an aperture 309mm x 309mm to accomodate the flange.

INSTALLATION INSTRUCTIONS

- Ensure that cutting an aperture in the door will not detract from the fire integrity of the door. Contact the manufacturer to establish the maximum size and optimum position.
- The intial installation of this type of air transfer grille is best carried out with the door dismounted. If rebated threshold seal is to be fitted this should be done temporarily before fitting the LVN25S assembly and then removed.
- Cut the aperture to the required size with a maximum gap all around the outside of the flange of 9mm.
- Check that the two halves of the air transfer grille fit into the aperture without twisting jamming or in any way distorting. Remove LVN25S sub assemblies from aperture.
- Drill vertical outer frames of each air transfer grille and flange sub assembly to accept fixing screws if not pre-drilled when supplied.
- Drill and rebate door to provide wiring route to conductor hinge or door loop connection. An intumescent sleeve is required for the cableway through the door core, this is available separately or supplied as part of the conductor hinge kit (refer to conductor hinge datasheet).

Fit intumescent liner (LX5002/LX5402) to the inside faces of the aperture.

- Fit the LVN25S sub assembly that incorporates the actuator into the aperture, ensuring that the actuator is at the bottom of the aperture. Route the wiring in to the required connection (hinge or loop) ensuring that it lies tidily and does not cause any distortion of the damper or is likely to become trapped.
- Fit retaining wood screws through pre-drilled holes in LVN25S vertical outer uprights into door.
- **Refer to wiring instructions.**
- Carry out a function check of the air transfer grille by activation from the control unit whilst actuator is visible and wiring accessible, before fitting the remaining half of the LVN25S.
- After satisfactorily completing function check, fit the remaining half LVN25S assembly ensuring that the smoke control sliding plates do not become squeezed between the two air transfer grille halves or wiring becomes trapped.
- Repeat the function check on complete installation.

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