FIRE DOOR 7

LVN20S NON-VISION FIRE + SMOKE AIR TRANSFER GRILLE INTO FD30S TIMBER FIRE DOOR

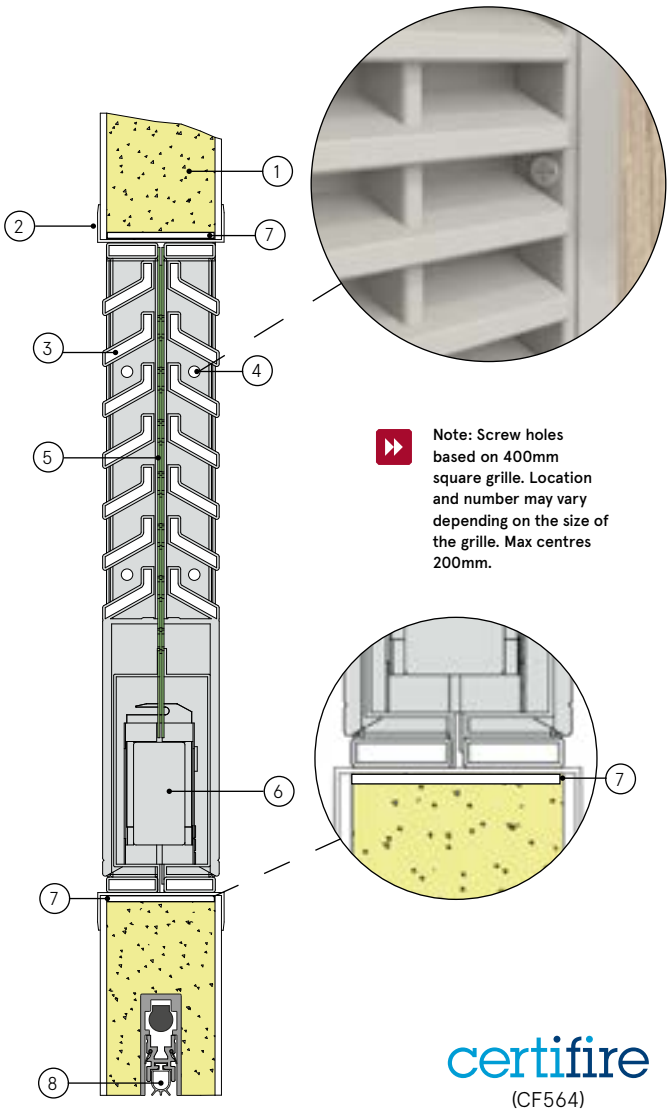
	DESCRIPTION
1	44mm thick timber fire door
2	Mounting flange
3	Horizontal intumescent louvred slats
4	Air transfer grille to door fixing position
5	Hit + miss smoke control plates. Central plate moves, two fixed outer plates
6	Servo driven actuator
7	Intumescent liner (LX4402) between the air transfer grille and the door leaf
9	Drop seal (optional)
	In order to comply with CF564, the upper edge of the grille shall be no higher than 800mm from floor level. Door manufacturers must be consulted in relation to permissible aperture sizes and locations.
	If the door core is not a solid timber lamel core (e.g. chipboard, flaxboard etc.), the aperture must be lined to full width using hardwood, with a minimum density of 650kg/m^3 and a thickness of at least 6mm. This may be omitted if the leaf has supporting test evidence.

CONTENTS

- LVN20S fire + smoke resistant air transfer grille
- Mounting flange
- Lorient intumescent liner (LX4402)

TOOLS REQUIRED

- 40mm wood screws
- Power drill
- Screw driver



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

certifire
(CF564)

LVN20S in a 44mm FD30S 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 initial 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 LVN20S 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 LVN20S 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 (LX4402) to the inside faces of the aperture.
- Fit the LVN20S 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 LVN20S 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 LVN20S.
- After satisfactorily completing function check, fit the remaining half LVN20S 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.