

FIRE DOOR 2

LVN20 NON-VISION AIR TRANSFER GRILLE INTO TIMBER FIRE DOOR

DESCRIPTION

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| 1 | 44mm thick timber fire door |
| 2 | Aluminium mounting flange |
| 3 | Intumescent air transfer grille to door fasteners - 25mm wood screws |
| 4 | LVN20 intumescent air transfer grille |

In order to comply with CF564, the upper edge of the grille shall be no higher than 800mm from floor level. Consult door manufacturers before cutting out in relation to permissible aperture sizes and locations

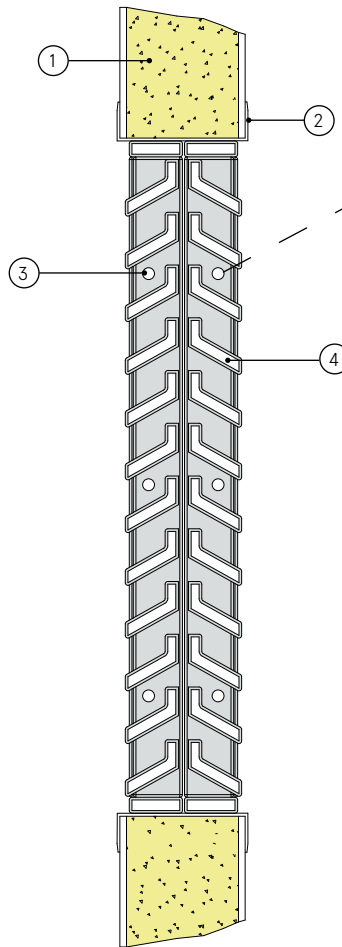
If the door leaf core does not comprise a solid timber lamel core (i.e. a core of chipboard, flaxboard etc.), the aperture provided in the leaf should be lined to full width using hardwood, with a minimum density of 650kg/m³ and a thickness of at least 6mm. This hardwood liner may be omitted should the leaf have been tested.

CONTENTS

- LVN20 air transfer grille
- Aluminium mounting flange (optional)

TOOLS REQUIRED

- Power drill
- Screw driver
- 25mm wood screws
- Lorient intumescent sealant



Note: Screw holes based on 450mm square grille. Location and number may vary depending on the size of the grille. Max centres 200mm.

LVN20 into a timber fire door

FD30

Fire Resistance in accordance with

BS 476-22:1987

Approval Ref

WFRC C122567*
Certifire CF564**

Max area

0.36m²*
0.2025m²**

LVN20 air transfer grilles are supplied 2mm less than the nominal size e.g. a 300mm x 300mm is actually 298mm x 298mm, but the PVC mounting flange needs an extra 4mm overall, giving total dimensions 2mm greater than the nominal size. e.g. 302mm x 302mm.

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.
- ▶ Cut the aperture to the required size with a maximum gap all around of 3mm. e.g. Maximum dimensions 306mm x 306mm.
- ▶ The door leaf does not compromise a solid timber lamel core (i.e. a core of chipboard, hardboard etc.), the aperture provided should be lined the full width using hardwood (minimum density of 650kg/m³ and thickness of 6mm).
- ▶ Apply a bead of Lorient intumescent sealant around the aperture approx. 1cm from both sides of the door surface. This will provide a bed for the LVN20.
- ▶ Using a 4mm drillbit, drill fixing holes. The number of holes will be dependent on the size of the LVN20. They should be a maximum of 50mm from each corner, no more than 200mm centres.
- ▶ Fit one half of the LVN20 into the aperture and ensure that it is positioned with the flange snug to the face.
- ▶ Fit retaining wood screws through pre-drilled holes in the LVN20 vertical outer uprights into door.
- ▶ Clean off surplus sealant and ensure periphery of half of the LVN20 is fully sealed.
- ▶ Repeat the process with the remaining half of the LVN20.
- ▶ **Note: Fixings supplied by others.**