

## Acoustic Smoke and Fire Sealing Systems for Finesse Firesound 40 and 41 Door Cores

Door assemblies are an integral part of buildings, and while there must be gaps around the perimeter of the door for it to operate efficiently, these gaps also allow the passage of cold smoke, hot smoke, fire and sound. Lorient manufactures seals for all four sides of the door, to provide a complete and continuous barrier around the door when it is closed. Lorient's comprehensive range of high performance seals provide protection against the infiltration of sound, smoke at all temperatures and fire, while offering low frictional resistance for ease of door operation. Furthermore, Lorient's seals are tested for air tightness under BS 476: Pt. 31.1 – so will make a positive contribution to thermal containment. Lorient products are also tested for durability, many achieving over 1,000,000 cycles on full size door assemblies without failure.

Lorient seals have been tested in conjunction with Moralt door cores, which are available from James Latham. The doorsets achieved up to 41dB Rw acoustic test performance, and the impressive results achieved are listed below.



Finesse™



Firtree™



Batwing®



IS4020 si

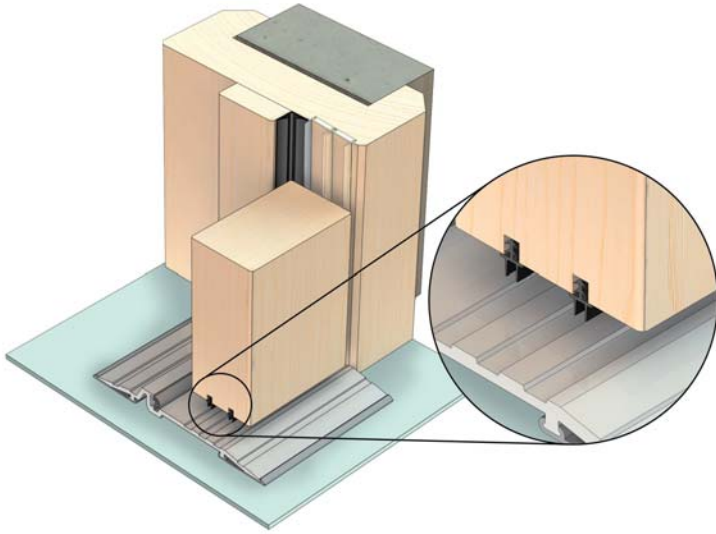
### Lorient Sealing Systems

dB Rw	Door Core	Door Thickness	Glazed/Flush	Lorient Seal Specification*	Glass Type**
41	Finesse Firesound 41	59mm	Flush	LP1504 Finesse™ x 2, IS1515, IS1511 x 2, IS4220 si	N/A
41	Finesse Firesound 41	59mm	Vision Panel 700mm x 400mm	LP1504 Finesse™ x 2, IS1515, IS1511 x 2, IS4220 si	21mm Pyrobel with System 36/23 glazing gasket
40	Finesse Firesound 40	54mm	Flush	LP1504 Finesse™ x 2, IS1515, IS1511 x 2, IS4220 si	N/A
40	Finesse Firesound 40	54mm	Vision Panel 700mm x 400mm	LP1504 Finesse™ x 2, IS1515, IS1511 x 2, IS4220 si	21mm Pyrobel with System 36/23 glazing gasket

\* Additional requirements: A Lorient LX3802 intumescent liner must be fitted in a concealed situation underneath the lipping on the head and jambs of the doorleaf, to achieve a 30 or 60 minute fire rating with the Finesse Firesound 40 and 41 door core.

\*\* Additional requirements: An LX5402 intumescent liner must be fitted.

## Lorient Product Solutions



### IS1511 Firtree™ Seal

A highly effective acoustic and smoke seal.

- Co-extruded rigid back with flexible fins.
- IS1511 Firtree™ carries:



### IS4220 si Threshold Plate

A threshold plate suitable for outward opening doors to prevent rain, draught, light and noise penetration.

- Flexible bedding gaskets eliminate vibration and noise and provide cushioning on uneven surfaces.

### LP1504 Finesse™ Acoustic, Smoke & Fire Seal

The Finesse™ seal combines performance and durability with enhanced aesthetics.

- Superior acoustic performance – tested in accordance with BS EN ISO 140-3: 1995.
- Successfully tested for fire and smoke performance in accordance with BS 476 Pt 20/22, and BS EN 1634-1:2000.
- Finesse™ carries:



### IS1515 Batwing® Perimeter Seal

The Batwing® seal minimises the opening and closing resistance of the door leaf due to its unique, curved elastomeric fins.

- Symmetrical fin design creates an air chamber to provide excellent acoustic performance – tested in accordance with BS EN ISO 140-3: 1995.
- Proven smoke performance up to 200°C.
- IS1515 Batwing® carries:



## Glazing System

### System-36/23

Lorient System-36/23 consists of a flexible U-shaped intumescent gasket used with a range of standard fixing beads.

- Flexible enough to be fitted to curved corners.

- System-36/23 carries:



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BS EN ISO 9001:2008  
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BS EN ISO 14001:2004  
Certificate No. EMS 541906