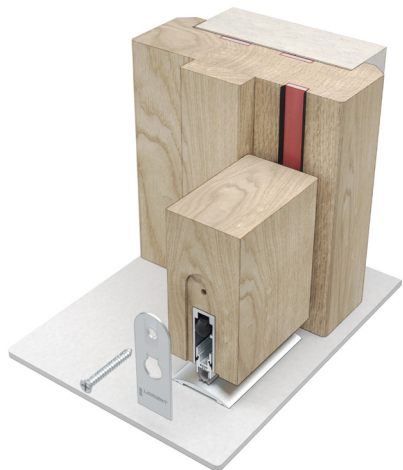


## Fitting instructions

*Acoustic, Smoke & Fire Seals*



For further information about our products please visit our website

[www.lorientgroup.com](http://www.lorientgroup.com)

t: +61 (02) 9905 0868

f: +61 (02) 9905 0883

e: [admin@lorientau.com.au](mailto:admin@lorientau.com.au)

## Instructions

### DS Acoustic, Smoke & Fire Seals

The DS seal requires a 3mm gap size, with +1mm tolerance. The DS can be fitted to either the door leaf or the door frame, but we would recommend fitting it to the frame.

It is essential that one fin on the product remains continuous at ironmongery points to ensure effective smoke and acoustic sealing performance.

Hinge blades may vary in depth / width and therefore the DS seal may be positioned offset at a maximum of 23mm from the opening side of the door or frame to provide a continuous smoke and acoustic seal.

### TS & AS Smoke Seals

A gap of 3mm for the standard 4mm fin is needed and a tolerance of +1mm is permissible. Because of the elasticity of the AS and TS fin material it is possible to squeeze them into gaps of less than 3mm but damage could result in service due to extreme abrasion, particularly at the head of the door and on the jambs. Excessive opening and closing forces will also result.

### Acoustic, Smoke and Fire Seals

1. Before fitting the door frame to the opening, rout all grooves to the back of the frame and head. Repeat the same operation for the inside of frame and doors where applicable.  
**Note:** All grooves should be of suitable width and depth such that the seals do not stand proud of their surroundings.
2. Make sure grooves are free from dust and grease. Lorient does not recommend oil or solvent based paint/primers.
3. Measure and cut all seals to length using a hacksaw. Remove self-adhesive backing and butt joint fit all seals to inside and outside of door frame or door, and meeting stiles of pairs of doors where applicable. Pressure must be applied to activate adhesive backing properties.  
**Note:** Pinning of seals is not recommended.

Location in the door frame is generally preferred since no difficulty will then be experienced in hanging and fitting of the door leaf.

### All Smoke Profiles

We recommend that, in line with good joinery practice, the edges of door leaves are given a 10 leading edge and chamfered on both edges. Overpainting and varnishing is not recommended.

Application should be at a temperature NO less than 10°C. Once installed Lorient fire seals may, if required, be painted over. Do not paint the flexible elements of combined acoustic, smoke and fire seals. Freshly painted doorsets fitted with combined fire and smoke seals should be left open until the paint is fully dry and cured. Some paint or lacquers will affect adhesion.

**Note:** Please ensure that seals are correctly fitted in order to provide effective sealing characteristics and long service life.

4. Measure and recess for hinges and intumescent liner in frame and doors.
5. Fit frame to opening making sure no damage occurs to the seals.
6. Measure and cut out rebate in door threshold for automatic threshold seal, and fit (fitting instructions provided with LAS 8001si / LAS 8005si).  
**Note:** If using a LAS 8001si on a 60 minute fire rated door (FD60), an intumescent cladding kit must be used. Refer to Lorient's Technical Department for more information.  
**Note:** On double swing doors, threshold seal LAS 5010 and threshold plate LAS 4010 can be used.
7. Fit hinges and intumescent pads to frame and door and hang doors.

## Handling & Storage

No special precautions are required when handling Lorient acoustic, smoke and fire seals, but they should always be treated with care and not bent or twisted. Safety data sheets are available on request. The products do not fall within the scope of COSHH regulations. Lorient intumescent seals should be stored flat in a clean, dry, dust-free area away from heat and at a storage temperature of between 5°C and 40°C.

**Please note:** Recommendations as to methods, use of materials and construction details are based on the experience and knowledge of Lorient and are given in good faith as a general guide and service to designers, contractors and manufacturers.

*Lorient reserves the right to make alterations or delete installation detail without prior notice.*

## Other Lorient products:

Acoustic, smoke & fire seals  
Fire resistant glazing systems  
Fire resistant door hardware  
Air transfer grilles/ dampers

## Fitting instructions

*Acoustic, Smoke & Fire Seals*

The following diagrams cover typical applications of Lorient intumescent acoustic, smoke and fire seal profiles to the most common types of fire resistant door assemblies.

It should be noted that double leaf and 180° swing configurations present a very complex subject and only broad generalisations are given in this leaflet. In case of difficulty, more specific information will gladly be supplied on request – please contact the Lorient Technical Department.

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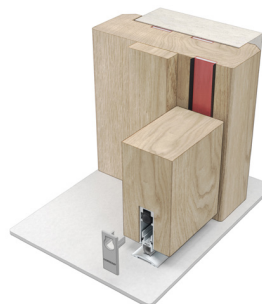
## Typical installations – FD30S



### Single leaf, single swing

LP1504DS at  
head & jamb

LAS 8001si at  
threshold



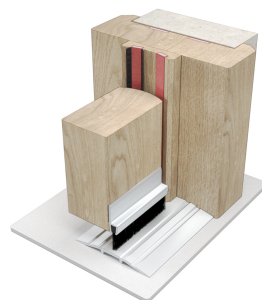
### Double leaf, single swing

LP1504DS at  
head & jamb

LP1504DS at  
meeting stile

LP1504 at meeting stile

LAS 8001si at  
threshold



### Single leaf, double swing

LP1004 plus LP1004DS  
at head & jamb

LAS 5010 plus  
LAS 4010 at threshold



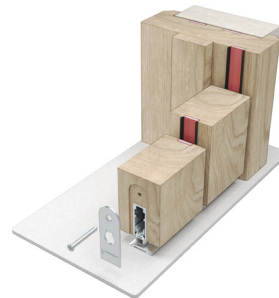
### Double leaf, double swing

LP1004 plus LP1004DS

LP1004 (x3) plus  
LP1004DS at  
meeting stile

LAS 5010 plus  
LAS 4010 at threshold

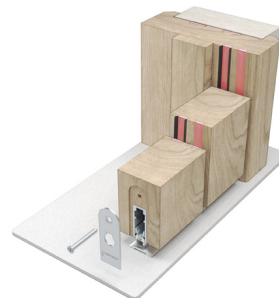
## Typical installations – FD60S



### Single leaf, single swing

LP2004DS at  
head & jamb

LAS 8005si at  
threshold

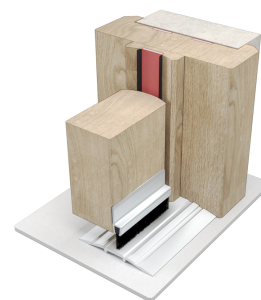


### Double leaf, single swing

LP1004 plus  
LP1004DS at head  
& jamb

LP1004 (x3) plus  
LP1004DS at  
meeting stile

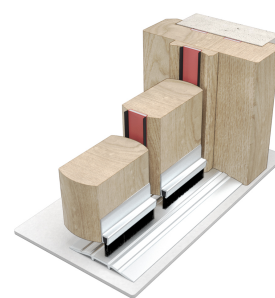
LAS 8001si at  
threshold



### Single leaf, double swing

LP2004DS at  
head & jamb

LP5010 plus  
LAS4010 at threshold



### Double leaf, double swing

LP2504DS head  
& jamb

LP2504DS  
meeting stiles

LAS 5010 plus  
LAS 4010 at threshold

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## Other Lorient products:

Acoustic, smoke & fire seals

Fire resistant glazing systems

Fire resistant door hardware

Air transfer grilles/ dampers



Lorient Pty Ltd  
Unit 30, 9 Powells Road  
Brookvale 2100  
New South Wales  
Australia

+61 (02) 9905 0868  
[www.lorientgroup.com](http://www.lorientgroup.com)

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