Fire and Smoke Resistant
Dampers / Air Transfer Grilles
high performance
fire containment & air transfer
Fire and smoke protection measures are essential, life-saving precautions in a building. What’s more, they protect the property from the devastating consequences of the fire itself, and the damaging effects of hot and cold smoke. So it’s essential to get the product selection right, every time.

Lorient has a respected reputation for designing and manufacturing a wide range of products for fire and smoke containment. Products are also designed with acoustic, thermal and weather containment in mind, as well as accessibility – so you can be assured that a Lorient system provides an integrated, cost-effective solution.

With over 35 years’ experience and accumulated knowledge, we pride ourselves on offering ground-breaking innovations, underpinned by technical excellence and exceptional quality. Our dedicated R&D centre not only generates successful product developments for Lorient; it also allows us to work in partnership with customers to develop and test their own products too. Our indicative fire test furnace is particularly popular, giving customers real insight into their own products’ performance and helping to save substantial testing costs.

Always keen to keep raising the bar, we are committed to gaining third party certification for our products wherever a suitable scheme exists. Many products hold CERTIFIRE certification, and we also hold approvals from both the BBA and IFC.

We embrace the highest management standards too, and hold both BS EN ISO 9001:2008 and BS EN ISO 14001:2004 certificates for our quality and environmental management systems. Achieving ISO 14001 is just one part of our ongoing commitment to operate in a sustainable way: many initiatives are planned and already underway to reduce materials and energy usage, as well as waste.

In addition to our UK and Europe head office, we have a number of operations around the world; in North America, Hong Kong, Singapore, Dubai and Australia. Furthermore, we have strong links in India, which means that we’re able to deliver the right solutions locally to our customers throughout the world. By keeping abreast of technical developments and changes to codes, regulations and standards across the continents, we can ensure we’re always providing the highest level of expertise. From advice to testing, new product development to manufacture – we work best in partnership with you.

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06/16
Fire and Smoke – Life Threatening Forces

On average 322 people are killed and 9,748 are injured* in fires each year in the UK alone. Many of the casualties are attributable to breathing the toxic products of combustion from a remote fire.

Fire and smoke also cause extensive damage to building fabric and contents. £2.52 billion* per annum is the estimated total of fire-related losses. The majority of these deaths, injuries and losses occur in buildings where fire and smoke protection measures have been inadequate.

### Design Needs and Regulatory Requirements

When fire breaks out in a building the threat is twofold. Firstly, there is the fire itself and the hot smoke generated in the immediate vicinity. Secondly, there is cold smoke which will spread rapidly through the building, threatening people and property some distance from the fire. The Building Regulations take both these threats into account, and supporting documents give criteria for how they can be managed. Details can be found in Approved Document B (England & Wales), Technical Booklet E (NIreland), and Technical Handbook Section 2 (Scotland).

The Regulations require large buildings to be divided into smaller fire and smoke resistant ‘compartments’, to reduce the risk of damage to the building as a whole and also to save lives in the case of a fire. Building a fire resistant wall or floor to make a compartment is relatively simple. However, building design becomes much more complex when the compartments need to be linked in some way – essential to make the building usable. Every time an aperture is cut into one of the compartment boundaries (for example, to install a door in a fire resistant wall, or to pass ductwork through a wall or ceiling) the aperture must be filled with something that will preserve the fire and smoke integrity of the compartment. That’s the role of Lorient’s products – to work with the surrounding elements of the building to preserve the integrity of the fire and smoke resistant compartments. Our fire and smoke seals can be fitted into fire rated doors; our glazing products can be fitted into doors, screens or fire rated partitions; our air transfer grilles can be installed into doors, walls and ducts.

Fire and smoke protection products must be tested to prove their performance, and indeed, separate tests are required for fire and smoke. Our products are all extensively tested, and our test reports are freely available on request. Just call our Technical Services team on 01626 834252.

### Dampers / Air Transfer Grilles

The Lorient solution is to fit fire containment air transfer grilles at the point of penetration. Under normal circumstances these allow air to pass freely between compartments. In the event of fire the slats and framing components swell to many times their original thickness, fusing together to form a non-combustible mass which provides fire resistance to match the surrounding construction and prevents the passage of hot smoke and gases. The fire containment air transfer grilles contain no moving parts which results in low maintenance.

The Lorient range of intumescent air transfer grilles combined with automatic smoke control systems provides protection against cold smoke. These electrically powered dampers are connected to a standard smoke or fire alarm/detection system which, when triggered, causes the dampers to close thereby preventing the passage of cold smoke. Under normal circumstances the dampers remain open allowing the free passage of air.

### Relevant Requirements

There are several British Standards which relate to the products and solutions featured in this brochure. They include:

- BS 476: Section 31.1: 1983: Methods for measuring smoke penetration through doorset and shutter assemblies;
- BS EN 1634-1: 2008: Fire resistance and smoke control tests for door, shutter and, openable window assemblies and elements of building hardware. Fire resistance tests for doors, shutters and openable windows;

*Source: Communities and Local Government Website, 2015.*
Ventilation with Fire and Smoke Protection

Designers recognise the need for buildings to be well ventilated for the health and comfort of occupants. Frequent changes of air flush out airborne infections, and warm and cool air need to be circulated to maintain comfortable temperatures.

Ventilation through Doors, Walls, Floors & Ceilings

A study of regulatory requirements reveals that nearly all internal fire resistant doors (and, therefore, the walls in which they are located) also need to provide protection against cold smoke. Any steps taken to allow ventilation through such walls and doors must not allow the passage of cold smoke in the event of fire.

The common practice of undercutting the door in the belief that the threshold is a low risk area has now been totally discredited. It creates a major smoke hazard. Similarly, fitting a conventional grille to a wall or door will totally negate other measures taken to prevent the spread of fire, hot smoke and cold smoke.

Lorient intumescent air transfer grilles and automatic smoke control systems provide protection against fire, hot smoke and cold smoke.

Ventilation through Ducting

Experience has shown that ducting can, in the event of fire, provide a conduit for fire, hot smoke and cold smoke. An intumescent fire damper, fitted into the duct at the point where it penetrates a fire resistant construction, will prevent the passage of fire and hot smoke. Lorient intumescent fire dampers fitted in conjunction with a Lorient automatic smoke control system will also provide protection against cold smoke. They have been shown by specific testing to be equivalent to a conventional damper, not only in fire and smoke barrier properties but also by exhibiting insulation values.

Lorient fire resistant dampers / air transfer grilles can be:

- factory fitted in a tested fire resisting doorset
- “retro fit” to an already installed fire door
- fitted in fire resisting walls, partitions, floors and ceilings
- installed in duct work (LVC40, LVH44, LVHC44 and LVH54).

Fire and Smoke Resistant Dampers / Air Transfer Grilles

System features include:

- A comprehensive range of dampers / air transfer grilles providing protection against fire and smoke at all temperatures
- Test evidence second to none
- Fire performance ratings from 90 minutes to in excess of 180 minutes
- Fully tested for smoke performance
- Products for all applications - doors, walls, ducts, floors & ceilings
- Low maintenance
- Co-ordinated with other Lorient products and ironmongery.
Product Range

Listed below are the features and attributes of each product in the Lorient damper / air transfer grille range. Further information on the products, including sizes, shapes and finishes, can be found on pages 10 and 11. Application details and additional performance information can be found on pages 13 to 18.

Non-vision Style **LVN20 and LVN25**
- can be used to provide up to 60 minutes resistance to fire and hot smoke
- angled slats ensure complete visual privacy
- supplied in two halves to accommodate different door thicknesses
- complete seal achieved in approximately five minutes when tested in accordance with BS 476: Pts. 20 & 22
- allows bi-directional air flow
- easy to keep clean
- contain no moving parts
- no site testing is necessary.

Vision Style **LVV40 and LVC40**
- can be used to provide up to 60 minutes resistance to fire and hot smoke
- excellent airflow characteristics which result in silent efficient operation in normal use
- complete seal achieved in approximately five minutes when tested in accordance with BS 476: Pts. 20 & 22 and BS EN 1634-1: 2000
- allows bi-directional air flow
- simple to install
- no maintenance required
- contain no moving parts
- resistant to clogging.
Lorient LVH high performance grilles are manufactured using Z275 grade galvanised steel, suitable for external applications. Additionally, the surfaces of fixing points are treated with a corrosion resistant coating, giving them a highly durable finish.

- can be used to provide up to 180 minutes resistance to fire and hot smoke
- complete seal achieved in approximately 2 minutes when tested in accordance with BS 476: Pts. 20 & 22 and BS EN 1634-1: 2000
- exhibit excellent airflow characteristics and give silent efficient operation with normal to high air velocities
- can be used in ducting where the steel and aluminium casing protects the intumescent material from the corrosive effect of hot gases travelling at high velocities

High Performance Vision Style **LVH44 and LVHC44**

- can be used to provide up to 180 minutes fire resistance
- has a galvanised steel frame which contributes to fire resistance by preventing the inward deformation of surrounding structures thus protecting the intumescent materials
- resistant to vibration damage
- suitable for horizontal and vertical applications
- suitable for external applications
- low maintenance
- contain no moving parts.

Duct Damper **LVH54**

- has been specifically designed to meet the tough requirements of BS ISO 10294 Pt. 5
- forms a complete seal within 2 minutes
- can withstand a 300P pressure differential across the damper
- maintains its fire integrity for a period of four hours
- has a galvanised steel frame and stainless steel slat, which is ideal for harsh duct environments, including high humidity
- suitable for vertical applications
- low maintenance
- contain no moving parts.
FIRE AND SMOKE RESISTANT DAMPERS / AIR TRANSFER GRILLES

A sudden increase in temperature resulting from the presence of flames or hot gases causes the slats and framing components to swell to many times their original thickness, fusing together to provide an effective barrier to the passage of fire and hot smoke.

**Operation - Vision, Non-vision and High Performance Styles**

Lorient fire containment air transfer grilles / dampers are made up of either PVC or metal slats with an intumescent core.

**Lorient Smoke Control System**

All ducts and airways in doors and walls can be protected against fire and hot smoke using Lorient intumescent air transfer grilles. However, these grilles will not prevent the passage of cold smoke which can be equally dangerous.

**Damper / Shutter Assembly**

To address this problem Lorient has developed a smoke damper assembly for use in conjunction with Lorient intumescent air transfer grilles.* The assembly comprises three slotted plates - two fixed plates sandwiching a central moving plate. The central plate is operated by a fail-safe motorised actuator. A movement of just 10mm changes the relative positions of the slots from “through flow” to “fully closed”.

*Note: ‘S’ suffix added to product code. Shutter assembly cannot be added to standard air transfer grilles retrospectively.
Control Systems for Smoke Damper Assemblies

The Talkback system can control up to sixteen dampers and features a status monitoring display.

**Talkback Damper Control System**

Most large buildings require a significant number of FD30S and FD60S fire doors (30 or 60 minute fire doors which also provide protection against cold smoke) within any one fire zone. These doors may be a considerable distance apart, or even on different floors.

The Talkback system has been designed to control up to sixteen damper assemblies from one centralised status monitoring unit. A unique 2-way communication system operates between the Damper Control and Monitor Unit (DCM) and the damper actuators. This facilitates a rapid assessment of the status of the installation and immediately identifies and locates any defective dampers.

Talkback is designed to give peace of mind to a building’s occupants in that it:

- is fail-safe – the dampers will automatically close in the event of an alarm, power failure or damage to the wiring
- resets automatically – when the alarm is cancelled or power restored
- is self-testing – every 24 hours the dampers are automatically closed and opened to check they are working and to dislodge any dust and debris between the moving parts
- continuously monitors the status of each damper and displays this on the DCM
- is easy and quick to install – simple loop wiring is used and the damper units are supplied ready assembled and tested
- uses a safe 12V DC supply to open and close the dampers
- has been successfully tested in accordance with the requirements of the Electro Magnetic Compatibility and Low Voltage Directive and therefore bears the CE mark (copies of the relevant test reports are available on request).

**Typical Installation of the Lorient Talkback System**

A: Door mounted fire and smoke dampers  
B: End of duct fire and smoke dampers  
C: Wall mounted fire and smoke damper  
D: Power and monitor unit  
E: Fire point  
F: Smoke sensors  
G: Fire alarm
Performance

The dampers are supplied factory assembled and tested. When used in conjunction with Lorient fire containment intumescent air transfer grilles, tests have shown that they provide an effective barrier to fire and smoke at all temperatures.

It is therefore possible to create airways through fire resistant constructions and still meet the requirements of Building Regulations and the recommendations of BS 9999. The graphs show the estimated smoke leakage rates determined from tests carried out under the conditions of BS 476: Pt 31.1. The results have been interpolated to show the leakage rates using different sizes of damper/shutter assemblies.

Installation

Lorient provides free technical support for the design, specification and installation of its smoke control systems.

Given the importance of the protection provided, it is recommended that Lorient is involved in the earliest stages of specification to ensure the most effective and economical system is specified and installed.

A comprehensive technical companion which covers the design and operation of Lorient smoke control systems is available; please consult our Technical Department.
Fire and Smoke Resistant Dampers / Air Transfer Grilles

product solutions
## Product Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>LVN20 &amp; LVN25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width:</td>
<td>100mm - 600mm (in 50mm increments)</td>
</tr>
<tr>
<td>Height:</td>
<td>100mm - 600mm (in 50mm increments)</td>
</tr>
<tr>
<td>Diameter:</td>
<td>up to 600mm diameter (nominal to suit standard PVC pipes or steel ducts)</td>
</tr>
<tr>
<td>Thickness:</td>
<td>2 pieces x 20mm or 2 pieces x 25mm</td>
</tr>
<tr>
<td>Free area:</td>
<td>30% approx.</td>
</tr>
<tr>
<td>Can be used with:</td>
<td>integral steel, PVC or aluminium flanges, no cover grille required</td>
</tr>
<tr>
<td>Fitting:</td>
<td>screwed and bedded in Lorient intumescent sealant</td>
</tr>
<tr>
<td>Materials and Finish:</td>
<td>PVC, silver as standard also available in white</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LVV40 &amp; LVC40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width:</td>
</tr>
<tr>
<td>Height:</td>
</tr>
<tr>
<td>Diameter:</td>
</tr>
<tr>
<td>Thickness:</td>
</tr>
<tr>
<td>Free area:</td>
</tr>
<tr>
<td>Can be used with:</td>
</tr>
<tr>
<td>Fitting:</td>
</tr>
<tr>
<td>Materials and Finish:</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>LVH44 &amp; LVHC44</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Height:</td>
</tr>
<tr>
<td>Diameter:</td>
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<tr>
<td>Thickness:</td>
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<tr>
<td>Free area:</td>
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<tr>
<td>Can be used with:</td>
</tr>
<tr>
<td>Fitting:</td>
</tr>
<tr>
<td>Materials and Finish:</td>
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<table>
<thead>
<tr>
<th>LVH54</th>
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</thead>
<tbody>
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</tr>
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<td>Height:</td>
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<td>Free area:</td>
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<tr>
<td>Can be used with:</td>
</tr>
<tr>
<td>Fitting:</td>
</tr>
<tr>
<td>Materials and Finish:</td>
</tr>
</tbody>
</table>

**Note:** LVH44 and LVHC44 can be used in external applications.

**NB:** Larger apertures possible. Refer to Lorient’s Technical Department.
**LVHCTD**

- Duct mounted fire and smoke damper

**Smoke Control System**

- Damper & actuator
- Talkback DCM

**Cover Grilles**

- Optional cover grilles for walls, doors and ends of ducts
- Pressed steel and aluminium options available
- Weather louvre options available for use on external applications (refer to Lorient’s Technical Department)

**Flanges**

- LVH44
- LVH44S

- 30% approx. NB: will change the free air flow characteristics of the air transfer grille

- LVV40
- LVH44
- LVH49S

- Screw fixed

**Product Specifications**

- Zintec steel
- DCM off-white

- Pressed steel, white, silver, primer or mill
- Matching colours are available: aluminium, natural satin anodised / powder coated

- Refer to Lorient’s Technical Department
The following pages show the levels of protection provided by Lorient fire resistant dampers / air transfer grilles when used in doors, compartment walls, ducts, floors and ceilings.

<table>
<thead>
<tr>
<th>Level of protection</th>
<th>Type of protection</th>
<th>Vertical / horizontal</th>
<th>Doors</th>
<th>Walls</th>
<th>Floors &amp; ceilings</th>
<th>Ducts</th>
</tr>
</thead>
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<tr>
<td>30</td>
<td></td>
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<td>LVN25</td>
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<td>60</td>
<td></td>
<td></td>
<td>LVN20S</td>
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<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LVN25</td>
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<td>n/a</td>
<td>LVH44 page 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LVV40/LVC40</td>
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<td>n/a</td>
<td>LVH44/LVHC44 page 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Horizontal</td>
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<td>n/a</td>
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<tr>
<td>90</td>
<td></td>
<td></td>
<td>LVH44/LVHC44</td>
<td>page 16</td>
<td>n/a</td>
<td>LVH44/LVHC44 page 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Horizontal</td>
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<td>n/a</td>
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</tr>
<tr>
<td>120</td>
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<td></td>
<td>LVH44/LVHC44</td>
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<td>n/a</td>
<td>LVH44/LVHC44 page 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Horizontal</td>
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<td>n/a</td>
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<tr>
<td>180</td>
<td></td>
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<td>LVH44S</td>
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<td>n/a</td>
<td>LVH44 page 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Horizontal</td>
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<td>n/a</td>
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<td>240</td>
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<td></td>
<td>LVH44S</td>
<td>n/a</td>
<td>n/a</td>
<td>LVH54 page 18</td>
</tr>
</tbody>
</table>

**Use of symbols**

- Indicates that the application detail shown provides protection against fire
- Indicates that the application detail shown provides protection against cold smoke
- Indicates in minutes the fire protection provided by the intumescent air transfer grille / fire damper
Doors – 30 to 120 Minutes

LVN20 (for 44mm & 54mm)

For installation in lower half of door leaf

LVN20 intumescent air transfer grille

Lorient intumescent sealant

Colour co-ordinated steel, aluminium or PVC flange (optional)

LVN25 (for 54mm only)

For installation in lower half of door leaf

LVN25 intumescent air transfer grille

Lorient intumescent sealant

Colour co-ordinated steel, aluminium or PVC flange (optional)

LVV40 & LVC40

LVH44 & LVHC44
LVN20S – door thickness min. 44mm

LVN20S damper/air transfer grille

LVH20S – door thickness min. 50mm

LVH20S damper/air transfer grille
LVV40 & LVC40

LVV40S – wall thickness min. 80mm

LVH44 & LVHC44

LVH44S – wall thickness min. 80mm

Note:
LVH44’s can be produced for apertures 1200mm x 2400mm or 2400mm x 1200mm ie: 2.88m², for 120 minutes

Please refer to Lorient's Technical Department
LVH44 & LVHC44 – floor thickness min. 50mm

LVH44 & LVHC44 – ceiling thickness min. 50mm

Note: Modular installation shown. The maximum size for this method of installation is 1200mm x 600mm. Please consult Lorient for larger sizes.

Note: The maximum size for this installation is 600mm x 600mm.
LVV40

- Ducts – 60 Minutes
- LVV40 intumescent air transfer grille
- Lorient intumescent sealant

LVC40

- Ducts – 60 Minutes
- LVC40 intumescent air transfer grille
- Lorient intumescent sealant
- Steel duct
- PVC duct
- 150mm max. PVC duct
- 300mm max. steel duct
LVH44 intumescent air transfer grille

LVH44

partition wall

Lorient intumescent sealant

LVHC44 intumescent air transfer grille

LVHC44

Lorient intumescent sealant

600mm max. circular steel duct

LVHCTD

partition wall

subduct assembly

actuator

fixed/sliding plate

LVH54 intumescent air transfer grille

LVH54

partition wall

Lorient intumescent sealant

Lorient intumescent sealant
Sealant

Lorient produces intumescent sealant for bedding in dampers / air transfer grilles.

- When exposed to fire, it will expand to many times its original volume while maintaining adhesion.
- Suitable also for sealing gaps between fire resistant walls and floors, between conduits and walls/floors and between fire resistant walls and structural supports.

Finishes

Fire door assemblies and dampers / air transfer grilles are often chosen for their appearance as well as their performance.

Standard Colours

- Silver (0701)
- White (0303)

Note: The limitations of the printing process means the colours and finishes shown here may not be exactly the same as the grilles supplied. Lorient can supply samples to assist colour matching.

Special Colours

Lorient offers a colour matching service and can usually formulate a precise colour match on receipt of appropriate details such as a BS or RAL colour reference or a material sample. A modest set up charge is made to cover costs, please ask for further details.

PVC/steel flanges and air transfer grilles can be colour matched.

Technical References

Lorient is quality assured under the disciplines of BS EN ISO 9001:2008. Accreditation to this standard is a guarantee that we conduct our business to the complete satisfaction of our customers with regard to design solutions, manufacturing consistency and management procedures.

In addition, this internationally recognised standard for quality management generates customer confidence and eliminates the risk of poor performance. Regular audits of our company procedures are undertaken by qualified BSI staff to ensure ongoing compliance with all aspects of the Standard.

Handling and Storage

No special precautions are required when handling Lorient dampers / air transfer grilles but they should always be treated with care. The products do not fall within the scope of COSHH regulations.

Lorient dampers/air transfer grilles should be stored away from heat, in the dry, and protected from impact damage.

Made in Britain

We are proud to have been granted the prestigious Made in Britain marque for our products that are designed and manufactured at our main facility in the South West of the UK.

Trade Associations

Lorient is proud to be a member of the following associations.

- Architectural and Specialist Door Manufacturers Association
- Toughened Glass Industry Federation
- Fire Protection Industry Association
- Association of Composite Door Manufacturers
- gal full member
- ASMA

Maintenance

Lorient intumescent air transfer grilles, including those positioned behind cover grilles, will require periodic cleaning with a damp cloth.

The use of intumescent materials means there are no moving parts. The product is trouble free in operation and easy to maintain – periodic testing is unnecessary.

Intellectual Property

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We are committed to continually enhancing and improving our product range. We reserve the right to change product specifications from time to time without prior notice. E&OE.
Continuing Professional Development Seminars

We offer three fully-accredited CPD seminars. Impartially presented by knowledgeable speakers, the seminars are structured to be technically informative, and give practical advice.

Performance Door Design: The Basics of Sound Reduction

Effective acoustic containment helps to improve the quality of the built environment, preserving privacy as well as excluding unwanted noise. With changing regulations, it’s essential to be up to date with the relevant requirements and the implications for door assemblies.

Our acoustic CPD seminar covers:
- the nature of sound, examining airborne transmission of sound;
- regulatory requirements and British Standards that relate to acoustic performance;
- test procedures and interpretation of test reports;
- effective design of door assemblies for acoustic performance, including door construction and the influence of sealing systems;
- design conflicts between acoustic performance, durability and ease of operation of the door;
- independent accreditation.

The Role and Performance of Fire and Smoke Resisting Door Assemblies

The importance of fire and smoke resisting door assemblies is illustrated by the 322 annual deaths in fire tragedies in the UK alone. Apart from the human toll, property losses each year approach £2.52 billion.

Our fire and smoke containment seminar covers:
- hard facts concerning deaths, injuries and property damage caused by fire and smoke;
- regulatory requirements for fire and smoke resisting door assemblies;
- the nature and behaviour of smoke;
- effective design of door assemblies for smoke containment, including the threshold gap;
- design conflicts between fire containment, smoke containment, durability and ease of operation of the door;
- independent accreditation.

The Regulatory Reform (Fire Safety) Order 2005 and its implications for fire doors

The RRO consolidated 70 pieces of legislation; shifted responsibility for fire safety management; abolished the Fire Safety Certificate; established the Fire Risk Assessment and created major change in legal liability.

Our RRO CPD seminar covers:
- an overview of the RRO;
- product solutions;
- the dangers of fire and smoke;
- the importance of fire doors – including installation and maintenance.

Our CPD materials have been independently verified and certified by the RIBA as CPD approved. A certificate for 1 hour’s CPD will be provided, which contributes to Continuing Professional Development requirements.

If you’re interested in booking a seminar, please contact our Marketing department or email cpd@lorientuk.com.
We continue to lead the way in research and development: As a company we have over 35 years’ experience, so our experts are well equipped to listen, help and advise you on your acoustic, smoke and fire containment needs.

**Technical Support**

We’re happy to provide specialist advice on acoustic, smoke and fire protection for refurbishment and new build projects. If you need assistance, you can call our Technical Services team.

Alternatively, we can arrange a site visit to get a clearer idea of your needs and how we can help you. We also provide copies of test reports and samples where needed; and can give guidance on how best to meet Building Regulations and Standards.

We also offer a professional and expert fire door inspection service. Our Certificated Fire Door Inspectors are fully qualified under the Fire Door Inspection Scheme (FDIS); and have been assessed by Exova Warringtonfire, an independent third party. Certificated to carry out the inspection of your building’s fire doors and prepare a detailed survey and report on the condition and function of the fire doors on your premises.

**Web Support**

Our website features a comprehensive range of supporting documents covering the entire range of products, including installation guides and CAD drawings. All of our brochures and product sheets are also available for download, together with copies of certification and specification texts.

**Online acoustic search tool**

Our acoustic search tool on our website gives you quick and easy access to a wide range of tested acoustic sealing systems on a variety of popular door constructions & configurations.

[www.lorientuk.com/acousticsearch](http://www.lorientuk.com/acousticsearch)

The tool allows users to select a specific decibel rating; along with door configuration, fire door rating, doorset type etc to filter the results. The ‘Acoustic Search’ tool is updated frequently with Lorient’s ever-expanding portfolio of test evidence. If you’re looking for high performance or specialist applications – please contact us on +44 (0) 1626 834252, there may be some additional configurations we haven’t presented.

**Customisation**

If you have a particular requirement which isn’t covered by the applications in this brochure, we may be able to supply an existing non-standard item, or even develop a customised solution for you. Utilising in-house expertise, bespoke products are created to your requirements; from a functional or aesthetic perspective, or both.

Lorient’s dedicated Technical Services team supports and works as part of your design team, offering informed product advice and guidance on regulatory requirements and standards.

Call our Technical Services team on 01626 834252

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