CI/SfB
(32.5) Ro8 (K2)

LORIENT
ASSA ABLOY

STEEL DOOR SEALING SOLUTIONS

STEEL DOOR SEALIN SOLUT



We've been designing and manufacturing high performance sealing systems for over 45 years.

And we're passionate about the products we make. Our dedicated R+D and testing facilities rigorously put our sealing systems through their paces — enabling us to enhance product form and function. We've built a strong reputation for design innovation; and for producing the highest quality sealing systems embracing fire, smoke, acoustic and thermal containment; as well as accessibility.

We offer a comprehensive range of high-performance sealing solutions for door assemblies – including fire, smoke, acoustic and thermal containment, plus accessibility.

Trusted by manufacturers worldwide, we bring deep technical expertise and a collaborative approach. Every door is different, and we work closely with you to develop tailored solutions that meet performance, design and compliance needs.

Whether you're designing a bespoke door or refining an existing system, our team is here to support you – from initial concept and prototyping through to testing and certification.

MADE IN BRITAIN

STEEL DOOR SEALING SOLUTIONS

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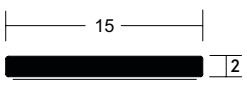
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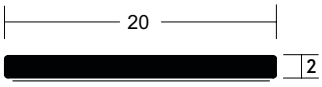


INTUMESCENT SEALS

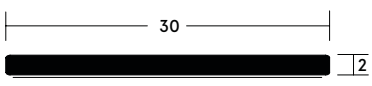
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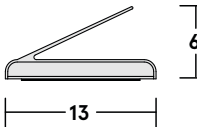
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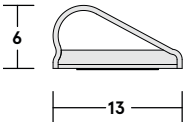
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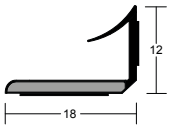
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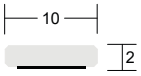
ES992UK



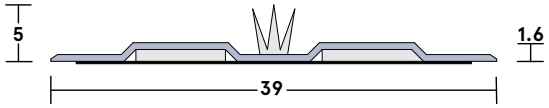
ES994UK



BW502UK



Interden strip



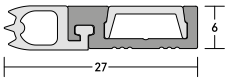
HP410UK

PERIMETER SEALS

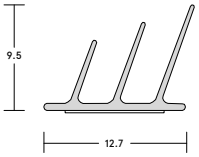
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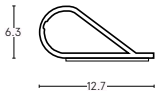
LAS1007
Single Batwing®



LAS7001 si



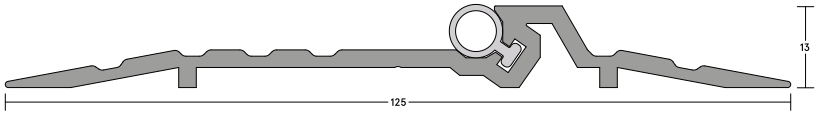
S773



S88

THRESHOLD PLATE

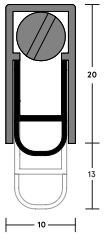
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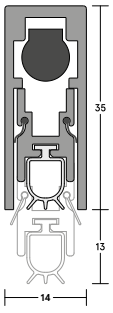
LAS4014 si

DROP SEALS

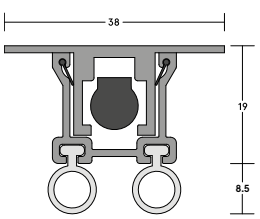
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LAS8000S



LAS8001 si



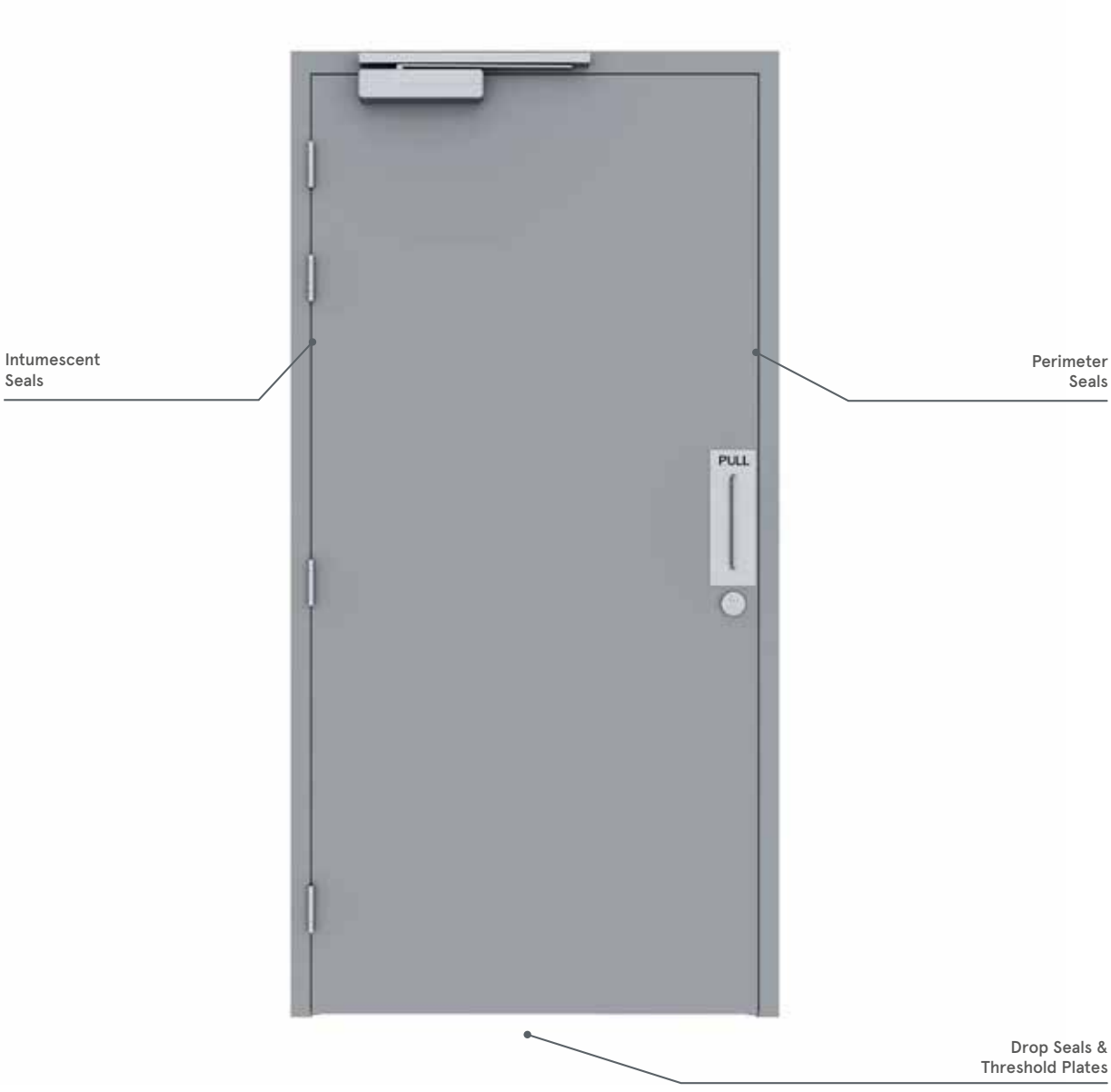
LAS8004 si

LORIENT
ASSA ABLOY

HIGH PERFORMANCE SEALING SYSTEMS

Steel doors demand precision and the right sealing system plays a critical role in achieving performance goals.

From fire resistance and smoke containment to acoustic performance, our seals are developed to integrate seamlessly with steel door assemblies to meet relevant standards.





INTUMESCENT SEALS

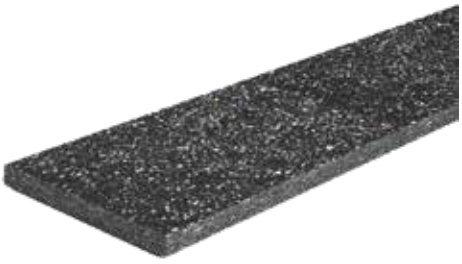
A variety of durable, flexible intumescent seals that are easy to fit to the perimeter of steel doors.

LORIENT
ASSA ABLOY

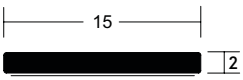
GRAPHITE SEAL

FACE-FIXED

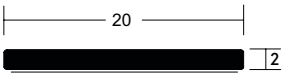
Our flexible edge seal consists of a graphite material. Supplied with a self-adhesive backing for a quick and easy application.



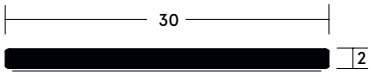
GP2002



GP1502



GP2002



GP3002

SYSTEM SPECIFICATIONS

Characteristics
- Protects against fire.

Size
- 15 x 2mm.
- 20 x 2mm.
- 30 x 2mm.

Seal material
- Graphite.

Standard lengths
- Supplied in roles - lengths to be advised.

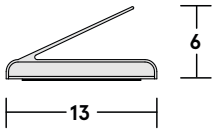
Fixing
- Heavy duty self-adhesive backing tape.

Finish
- Unskinned graphite.

ES992UK

FACE-FIXED

The ES992UK is a surface-applied intumescent seal with a co-extruded single fin for smoke and draught protection. In the event of a fire, the PVC casing softens and the graphite core expands up to seven times its size to seal gaps and restrict fire, smoke, and gas passage. Suitable for perimeter and edge-sealing applications, it is supplied with strong self-adhesive tape for quick installation without mechanical fixings.



ES992UK



ES992UK

SYSTEM SPECIFICATIONS

Test evidence
- Fire: UL 10C – Positive Pressure Fire Tests of Door Assemblies; NFPA 252 Fire Door Compliant.
- Smoke & Air Leakage: UL 1784 – Air Leakage Tests of Door Assemblies and Other Opening Protectives; NFPA 105 Compliant.

Fire rating
- 90 minutes – wood core and plastic-covered composite doors (Category B).
- 180 minutes – hollow metal and steel-covered composite doors.
- Rated up to 1219mm x 2743mm single swing, and 2438mm x 2743mm standard pair.

Location
- Head and jambs of single and double leaf doors.

Characteristics
- Suitable for use on steel-based door assemblies.
- Can provide fire, smoke, draught, and acoustic containment.
- Co-extruded single fin for improved sealing efficiency and reduced operating force.
- Expansion: Begins at ~390°C; expansion rate ~7:1 (average).
- Maintains flexibility from -34°C to +60°C.

Use with
- Any architectural seals.

Seal material
- Base: Flexible graphite.
- Gasketing: PVC protective coating with co-extruded elastomeric fin.

Standard lengths
- Supplied in roles - lengths to be advised.

Fixing
- Heavy duty self-adhesive backing tape.

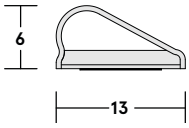
Colours
- Black as standard.
- Other colours available to special order.

Certification

ES994UK

FACE-FIXED

The ES994UK is a surface-applied intumescent seal with a co-extruded bulb profile for smoke and draught protection. In the event of a fire, the PVC casing softens and the graphite core rapidly expands to seal gaps and restrict fire, smoke, and gas passage. Suitable for perimeter and meeting stile applications, it is supplied with strong self-adhesive tape for quick installation without mechanical fixings.



ES994UK



ES994UK

SYSTEM SPECIFICATIONS

Test evidence

- Fire: UL 10C – Positive Pressure Fire Tests of Door Assemblies; NFPA 252 Fire Door Compliant.
- Smoke & Air Leakage: UL 1784 – Air Leakage Tests of Door Assemblies and Other Opening Protectives; NFPA 105 Compliant.

Fire rating

- 90 minutes – wood core and plastic-covered composite doors (Category B).
- 180 minutes – hollow metal and steel-covered composite doors.
- Rated up to 1219mm x 2743mm single swing, and 2438mm x 2743mm standard pair.

Location

- Side of frame – head, jambs, and meeting stiles of single and double leaf doors.

Characteristics

- Suitable for use on steel-based door assemblies.
- Can provide fire, smoke, draught, and acoustic containment.
- Bulb profile acts as a buffer seal while minimising door operating resistance.
- Expansion: Begins at ~390°C; expansion rate ~7:1 (average).
- Maintains flexibility from -34°C to +60°C.

Use with

- Any architectural seals.

Seal material

- Base: Flexible graphite.
- Gasketing: PVC protective coating with co-extruded elastomeric bulb.

Standard lengths

- Supplied in roles - lengths to be advised.

Fixing

- Heavy duty self-adhesive backing tape.

Colours

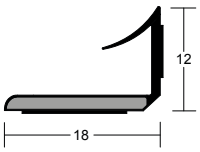
- Black as standard.
- Other colours available to special order.

Certification

BW502UK

FACE-FIXED

The BW502UK Batwing® is a surface-applied intumescent perimeter seal for fire-rated steel doors. Its rigid PVC body with flexible fins seals against smoke and draughts, while the intumescent core expands in a fire to provide protection. Designed to minimise opening and closing resistance, it installs quickly with self-adhesive tape and requires no mechanical fixings. Suitable for single and double leaf doors on the head and jambs.



BW502UK



BW502UK

SYSTEM SPECIFICATIONS

Test evidence
- Fire: UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies, NFPA-252 Fire Door Compliant.
- Smoke & Air Leakage: UL 1784 - Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives, NFPA 105-2013 Compliant.

Fire rating
- 90 minutes – wood core and plastic-covered composite doors (Category B).
- 180 minutes – hollow metal and steel-covered composite doors.
- Rated up to 1219mm x 2743mm single swing, and 2438mm x 2743mm standard pair.

Location
- Head and jambs of single and double leaf doors.

Characteristics
- Suitable for use on steel-based door assemblies.
- Can provide fire, smoke, draught, and acoustic containment.
- Intumescent core expands at ~390°C.

Use with
- Any architectural seals.

Min/max gap size
- 3mm/4mm.

Seal material
- Rigid PVC with flexible elastomeric fins and graphite-based intumescent core.

Standard lengths
- 2.1m & 1m.
- Other lengths available to special order.

Fixing
- Heavy duty self-adhesive backing tape.

Colours
- Black as standard.
- Other colours available to special order.

Certification

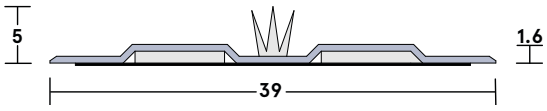
HP410UK

FACE-FIXED

The HP410UK is a surface-applied intumescent seal with a rigid PVC casing and three co-extruded elastomeric fins for smoke and draught protection. In the event of a fire, the casing softens and the core expands up to 18 times its size to seal gaps and restrict fire, smoke, and gas passage. Suitable for perimeter and meeting stiles, it is supplied with strong self-adhesive tape for quick installation without mechanical fixings.



HP410UK



HP410UK

SYSTEM SPECIFICATIONS

Test evidence
- Fire: UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies, NFPA-252 Fire Door Compliant.
- Smoke & Air Leakage: UL 1784 - Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives, NFPA 105-2013 Compliant.

Fire rating
- 90 minutes – wood core and plastic-covered composite doors (Category B).
- 180 minutes – hollow metal and steel-covered composite doors.
- Rated up to 1219mm x 2743mm single swing, and 2438mm x 2743mm standard pair.

Use with
- Any architectural seals.

Characteristics
- Suitable for use on a variety of door assemblies, including perimeter and meeting stiles.
- Can provide fire, smoke, draught, and acoustic containment.
- Expansion: Begins at ~390°C; expansion rate ~18:1 (average).
- Maintains flexibility from -34°C to +60°C.
- Expansion: Begins at ~390°C; expansion rate ~18:1 (average).

Location
- Head and jambs of single and double leaf doors.

Seal material
- Intumescent core with rigid PVC casing and three co-extruded elastomeric fins.

Standard lengths
- 2.1m & 1m.
- Other lengths available to special order.

Fixing
- Heavy duty self-adhesive backing tape.

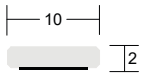
Colours
- Black as standard.
- Other colours available to special order.

Certification

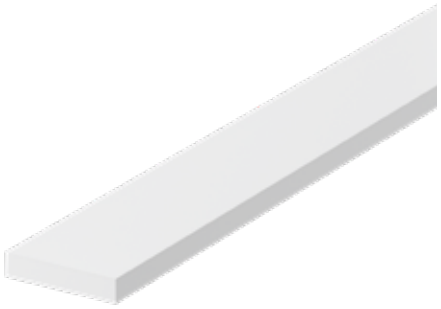
INTERDENS STRIP

FACE-FIXED

Interdens Strips are perimeter-applied intumescent seals. Manufactured from Mono Ammonium Phosphate (MAP), they expand in a fire to help maintain the door's integrity. The heavy-duty self-adhesive backing allows quick installation without mechanical fixings. Suitable for use around the head and jambs of single and double leaf doors.



Interdens strip



Interdens strip

SYSTEM SPECIFICATIONS

Characteristics
- Protects against fire.

Size
- 10 x 2mm.

Seal material
- Mono Ammonium Phosphate (MAP).

Standard lengths
- 1m.

Fixing
- Heavy duty self-adhesive backing tape.

Colour
- White.

PERIMETER SEALS

A comprehensive range of perimeter seals for installation around the head, jambs and meeting stiles of doors.

These seals are designed to accommodate a wide range of gap sizes and applications.



LAS1007 Single Batwing®

FACE-FIXED

The LAS1007 single Batwing® is a smoke and acoustic perimeter seal for fire-rated steel-based door assemblies / doorsets. Its 14mm high, single fin design creates a tight seal while minimising the force required to open and close the door. Made from a flexible elastomeric material, the fin springs back into shape after every use, ensuring long-lasting performance. Easy to install with minimal disruption, the LAS1007 is suitable for both single and double leaf doors on the head and jambs.



LAS1007
Single Batwing®



LAS1007 Single Batwing®

SYSTEM SPECIFICATIONS

Test evidence
- Smoke: BS 476-31.1: 1983 at ambient temperature; BS EN 1634-3:2004 at ambient temperature.
- Acoustic: BS EN ISO 10140-2: 2010 (up to Rw 34dB).
- Durability: 100,000 cycles.

Characteristics
- Suitable for use on steel based door assemblies.
- Contributes towards sound, smoke, draught, and light containment.

Location
- Head and jambs of single and double leaf doors,

Use with
- Any fire seals or architecturals seals.

Min/max gap size
- 3mm/4mm.

Seal material
- Co-extruded rigid back PVC with flexible fins.

Standard lengths
- 1m and 2.1m.
- Other lengths to special order.

Fixing
- Heavy duty self-adhesive backing tape.

Colours
- Black, white, dark brown, light brown and grey as standard.
- Silver, cream, red and clear are subject to MOQs.
- Note: clear Batwing® will not prevent light penetration.

Certification

certifire (CF5179)

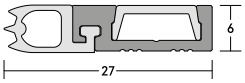
CLASSIFIED UL (R27972)

LORIENT ASSA ABLOY

LAS7001 si

FACE-FIXED **33dB**

Slimline aluminium perimeter seal featuring a silicone gasket, ideal for smoke and acoustic containment. Designed to be fitted to existing door stops, it is suitable for both timber and steel-based door assemblies. A neat cover plate conceals fixing screws, and it can be easily installed without removing the door.



LAS7001 si



LAS7001 si

SYSTEM SPECIFICATIONS

Test evidence
- Smoke: BS EN 1634-3:2004 at ambient and medium temperature; effective smoke seal up to 200°C.
- Acoustic: BS EN ISO 10140-2: 2010 si (up to Rw 33dB).
- Durability: 100,000 cycles.

Characteristics
- Suitable for use on timber & steel based door assemblies.
- Contributes towards sound, smoke, draught, weather, and light containment.

Location
- Head and jambs of single swing doors.

Use with
- Practically any threshold seal.

Seal material
- Flexible silicone rubber.

Standard lengths
- 1m and 2.1m. Single doorset pack consisting of 1 x 1m and 2 x 2.1m. Other lengths to special order.

Fixing
- Self-tapping wood screws are supplied (self-drilling and self-tapping screws for metal construction available on request).
- Fixing holes are pre-drilled and slotted to allow the seals to be adjusted and positioned accurately. A PVC cover strip to conceal fixings is supplied.

Finishes
- Silver anodised aluminium with grey cover strip and grey silicone rubber gasket as standard.

Certification

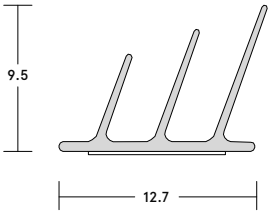
certifire (CF5179)

CLASSIFIED UL (R27972)

S773

FACE-FIXED

The S773 is a perimeter seal with a triple-fin design, providing light, smoke, and acoustic containment. Extruded from high-temperature silicone, it remains effective from -50°C to +232°C. Suitable for use on steel-based door assemblies, it is supplied with a strong self-adhesive backing for quick installation without mechanical fixings.



S773



S773

SYSTEM SPECIFICATIONS

Test evidence

- Fire: UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.
- Smoke & Air Leakage: UL 1784 – Air Leakage Tests of Door Assemblies and Other Opening Protectives; Category H & J.
- Acoustic: ASTM E90; BS EN ISO 140-3 – proven to deliver up to 98% efficiency when tested with compatible automatic door bottoms and acoustic corner pads.
- Air infiltration: ASTM E283 – 0.09 CFM/ft. of crack.

Fire rating

- Up to 3 hours – steel-covered composite and hollow metal doors.
- Up to 1½ hours – wood and plastic-covered composite doors.
- 20 minutes – wood core doors.

Characteristics

- Suitable for use on steel-based door assemblies.
- Can provide smoke, draught, acoustic and light containment.
- GREENGUARD Gold Certified and Environmental Product Declaration (EPD) available.
- Not recommended for use on bevelled doors.

Location

- Side of frame – head and jambs of single and double leaf doors.

Use with

- Compatible with Pemko automatic door bottoms (e.g., 411_PKL) and acoustic corner pads (ACP112) for maximum sound attenuation.

Seal material

- High-temperature silicone.

Standard lengths

- Supplied in 250ft rolls (approx. 76.2m).

Fixing

- Heavy duty self-adhesive backing tape.

Colours

- Black as standard.
- Other colours available to special order.

Certification

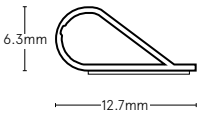
CLASSIFIED c UL us 4L10

PEMKO ASSA ABLOY

S88

PEMKO BY LORIENT

The S88 is a versatile compression seal that is smoke and fire rated, listed for UL10B fire and UL10C positive pressure fire. The S88 gasket meets the criteria for Category G (edge sealing), Category H (fire and smoke), and Category J (fire) applications. This lightweight seal is self-adhesive making it easy to install, and it is available in a variety of colours.



S88



S88

SYSTEM SPECIFICATIONS

Product testing

- **GreenGuard GOLD Certification**: Tested to UL2818 and achieved GOLD certification for low V.O.C. content – ulspot.com for certificate.
- **Air Infiltration**: Tested to ASTM E-283-04 (2012) for low air leakage allowance; allows no more than 0.3 cfm per square foot at 1.57 psf (75 Pa).
- **Acoustic:** Tested to ASTM E90 – 2009 in a single or in multiple sound seal configurations for sound attenuation in an opening.
- **Smoke:** Tested to UL 1784 and meets the requirements of NFPA 105-2013 for smoke leakage in an opening; allows no more than 3.0 cfm per square foot at 0.10" water column (about 75 Pa).
- **Fire**: Tested to UL10B Standard Fire Tests and UL10C Positive Pressure Fire Tests of Door Assemblies.
- **BHMA Certified:** Tested for performance with regards to the requirements in: ANSI/BHMA A156.22 – Door Gasketing and Edge Seal Systems.

Location

- Side of frame.

Min/max gap size

- 1.5mm/6mm.

Seal material

- Silicone.

Standard lengths

- 155.45m roll.
- Subject to MOQs.

Colours

- Black.

Fixing

- Self-adhesive tape.
- Note: contact surfaces must be clean, smooth and, if painted, well cured.
- Adhesive has a shelf life of 6 months.

Certification

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

CLASSIFIED UL US 4L10

BHMA CERTIFIED

THRESHOLD PLATES

Hardwearing aluminium threshold plates that are affixed to the sill beneath the door. Threshold plates provide a firm and effective sealing surface for threshold seals to rest against, while also covering the join between different flooring materials.

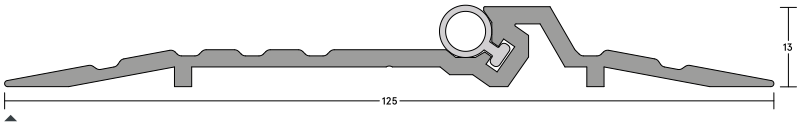
Threshold ramps feature a gentle sloping gradient to accommodate differences in floor heights.



LORIENT
ASSA ABLOY

LAS4014 si 42dB

The LAS4014 si threshold plate is a robust, aluminum threshold solution, suitable for use on fire-rated steel doorsets. Featuring a high-performance silicone compression seal, the LAS4014 helps prevent the penetration of rain, draughts, light, and noise, enhancing the comfort and protection of interior spaces. Its stepped design increases the effectiveness of threshold seals by creating a firmer gasket contact, while the durable anodised finish provides a sleek and resilient aesthetic.



LAS4014 si



SYSTEM SPECIFICATIONS

Test evidence
- Smoke: BS 476-31.1: 1983 at ambient temperature.
- Acoustic: BS EN ISO 10140-2: 2010 (up to Rw 42dB).
- Durability: 100,000 cycles.

Characteristics
- Suitable for use of fire rated steel doorsets.
- Meets smoke requirement: BS 8214:2016.
- Contributes towards smoke, weather, draught, and light containment when fitted with a suitable threshold seal.
- Provides an even surface underneath the door; suitable for wheeled traffic.

Location
- Single and double leaf outward opening doors.

Use with
- Practically any drop or door bottom seal.

Material
- Aluminium and silicone gasket.

Standard lengths
- 1m and 2.1m. Other lengths to special order.

Fixing
- Fixing screws are supplied.

Finishes
- Silver anodised aluminium with grey silicone rubber gasket as standard.

Certification

certifire
(CF5179)



DROP SEALS

A range of drop seals that fit to the bottom of a door and drop down automatically when the door closes to form a firm seal.

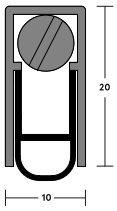
A spring-loaded mechanism, requiring no power, ensures easy door operation and effective sealing when closed.

LAS8000S

MORTISED

A compact & durable slimline, mortised automatic drop seal. It features a high efficiency mechanism, which lifts the seal clear of the floor as soon as the door is opened by a few millimetres; resulting in lower door operating forces. Requires no power connection. Self-levelling on uneven floors; seal height can be adjusted independently of fixing screws.

For added convenience, an optional fixing kit is supplied, which includes steel end plates and striker plate. This kit offers an additional fitting option, providing flexibility for a variety of installation needs.



LAS8000S



LAS8000S

SYSTEM SPECIFICATIONS

Test evidence
- Fire: BS EN 1634-1.
- Smoke: BS EN 1634-3.
- Acoustic: BS EN ISO 10140-2: 2010 (up to Rw 32dB).
- Durability: 100,000 cycles.

Characteristics
- Contributes towards sound, smoke, draught, and light containment.
- Suitable for wheeled traffic.

Location
- Single swing, single and double leaf doors. For use on both right and left handed doors.

Use with
- Any perimeter seal. Any threshold plate.

Min/max gap size
- 1mm/10mm.

Seal material
- Non-anodised aluminium housing with rigid & flexible PVC gasket.

Standard lengths
- 335mm, 435mm, 535mm, 635mm, 735mm, 835mm, 935mm, 1035mm, 1135mm and 1235mm. Sizes above 1235mm are available on request.
- Note: Each length can be cut back to the next size down. The 335mm can be cut back to 295mm.

Fixing
- Fixing screws are supplied. This seal is mortised.
- Additional fixing kit comprising steel end plates and striker button supplied for a variety of installation needs.

Adjustment
- Self-levelling on uneven surfaces.

Finishes
- Silver aluminium with black PVC gasket.

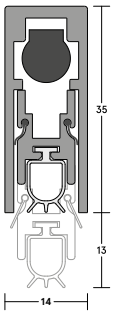
Certifications

certifire
(Pending)

LAS8001 si

MORTISED **39dB**

A slimline, mortised automatic drop seal. It features a high efficiency mechanism, which lifts the seal clear of the floor as soon as the door is opened by a few millimetres; resulting in lower door operating forces. Requires no power connection. Self-levelling on uneven floors; seal height can be adjusted independently of fixing screws.



LAS8001 si



LAS8001 si

SYSTEM SPECIFICATIONS

Test evidence
- Fire: BS EN 1634-1:2014 + A1:2018 & BS 476-22:1987.
- Smoke: BS 476-31.1: 1983 at ambient temperature; BS EN 1634-3:2004 at ambient and medium temperature; effective smoke seal up to 200°C.
- Acoustic: BS EN ISO 10140-2:2010 (up to Rw 39dB).
- Durability: 100,000 cycles.

Characteristics
- Suitable for use on fire rated timber based door assemblies.
- Contributes towards sound, smoke, draught, and light containment.
- Suitable for wheeled traffic.

Location
- Single swing, single and double leaf doors. For use on both right and left handed doors.

Use with
- Any perimeter seal. Any threshold plate.

Min/max gap size
- 1mm/13mm.

Seal material
- Grey or black silicone rubber.

Standard lengths
- 335mm, 435mm, 535mm, 635mm, 735mm, 835mm, 935mm, 1035mm, 1135mm and 1235mm. Sizes above 1235mm are available on request.
- Note: Each length can be cut back to the next size down. The 335mm can be cut back to 255mm.

Fixing
- Fixing screws are supplied. This seal is mortised. Pre-drilled radiused end plates are supplied which also secure the product in place. (Square end plates available on request).

Adjustment
- Self-levelling on uneven surfaces.

Finishes
- Mill finish carrier with silver end plates, and grey silicone rubber gasket as standard.

Certification

certifire (CF5179)

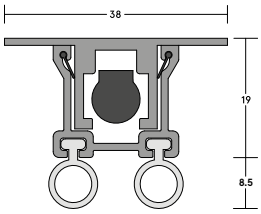
CLASSIFIED UL (R27972)

LORIENT ASSA ABLOY

LAS8004 si

MORTISED

A mortised, automatic 'flat back' drop seal to suit installation to metal door rails. It features a high efficiency mechanism, which lifts the seal clear of the floor as soon as the door is opened by a few millimetres; resulting in lower door operating forces. Requires no power connection. Self-levelling on uneven floors; seal height can be adjusted independently of fixing screws.



LAS8004 si



LAS8004 si

SYSTEM SPECIFICATIONS

Test evidence
- Smoke: BS 476-31.1: 1983 at ambient temperature.
- Durability: 100,000 cycles.

Characteristics
- Suitable for use on fire rated steel based door assemblies.
- Contributes towards sound, smoke, draught, and light containment.
- Suitable for wheeled traffic.

Location
- Single swing, single and double leaf doors.
- Can be used on either right or left handed doors.

Use with
- Any threshold plate.

Min/max gap size
- 1mm/13mm.

Seal material
- Grey silicone gasket.

Standard lengths
- 635mm, 735mm, 835mm, 935mm, 1035mm, 1135mm and 1235mm.
- Note: Each length can be cut back to the next size down. The 635mm can be cut back to 535mm. Other lengths to special order.

Fixing
- Fixing screws are supplied, fixing holes are pre-drilled.

Adjustment
- Self-levelling on uneven surfaces.

Finish
- Silver anodised aluminium with grey gaskets.

Certification

certifire (CF5179)

CLASSIFIED UL (R27972)

CPDs

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

RIBA CPD Providers Network

The Importance of Fire Doors & Intumescent Seals

Fire doors and intumescent seals are critical components in fire safety, designed to prevent the spread of fire and smoke, saving lives and protecting property. This CPD explores their essential role in passive fire protection.

The CPD seminar covers:

- hard facts concerning deaths, injuries and property damage caused by fire and smoke;
- fire testing in the UK and the applicable fire and smoke leakage standards;
- how ironmongery affects fire doors and the vital role of intumescent protection;
- understanding intumescent seals for doors and the importance of third party certification;
- practical product solutions.

RIBA Core curriculum:

- Health, Safety & Wellbeing
- Legal, regulatory and statutory compliance

The Role and Performance of Fire & Smoke-Resisting Door Assemblies

The importance of fire and smoke resisting door assemblies is illustrated by the 220 fire related fatalities and 5,515 casualties in fires (England 2024). Apart from the human toll, property losses each year approach £2.52 billion.

The CPD 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.

RIBA Core curriculum:

- Health, Safety & Wellbeing
- Legal, regulatory and statutory compliance
- Design, construction & technology

The Regulatory Reform (Fire Safety) Order 2005 & 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.

The CPD seminar covers:

- quick introduction to the RRO and who is responsible for a building's fire safety;
- examples of companies who have come under fire from the RRO;
- the dangers of fire and smoke;
- the importance of fire doors – including installation and maintenance.
- examples of poorly maintained and fitted fire doors with cost effective solutions.
- independent accreditation.

RIBA Core curriculum:

- Health, Safety & Wellbeing
- Design, construction & technology

Five of our CPD seminars have been independently verified and certified by RIBA. A certificate for 1 hour's CPD will be provided, which contributes to Continuing Professional Development requirements.

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 informed of the relevant requirements and the implications for door assemblies.

The 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.

RIBA Core curriculum:

- Legal, regulatory and statutory compliance
- Design, construction & technology.

The Design & Specification of Intumescent Air Transfer Grilles

Intumescent air transfer grilles enable ventilation while ensuring fire protection. Under normal conditions, they allow airflow, but in a fire, they expand to block fire, hot smoke, and gases. Combined fire and smoke grilles are designed for cold smoke containment. Correct specification is critical to ensure effective fire protection and safety in building design.

The CPD seminar covers:

- an overview of fire and life safety principles as they relate to air transfer grilles;
- principals & performance of intumescent air transfer grilles and the critical role they play in passive fire protection;
- understanding effective cold smoke containment to save lives and protect property;
- guidance on specifying air transfer grilles that comply with regulatory and performance standards.
- Practical advice and solutions for optimal performance throughout the product lifecycle.

RIBA Core curriculum:

- Design, construction & technology.

Each informative seminar provides an opportunity to keep up-to-date with all the latest facts about fire, smoke and acoustic containment, including regulations and standards - as well as exploring practical solutions.

All attendees will receive one-hour's CPD for each seminar.

If CPD certification is not required, presentations can be tailored to suit a wide variety of audiences, including client companies, building contractors, construction industry groups and trade associations.

To find out more or to book, contact us:

cpd@lorientuk.com

www.lorientuk.com



ADDITIONAL INFORMATION

TECHNICAL REFERENCES

Lorient is quality assured under the disciplines of BS EN ISO 9001:2015.

Accreditation to this standard is an assurance that we conduct our business to the complete satisfaction of our customers with regard to design solutions, manufacturing consistency and management procedures.

As a result, this internationally recognised standard for quality management generates customer confidence. Regular audits of our company procedures are undertaken by qualified BSI staff to ensure ongoing compliance with all aspects of the standard.

BS EN ISO 9001:2015 Certificate No. Q 800256

Lorient has attained the BS EN ISO 14001:2015 accreditation for environmental management. This internationally recognised standard shows that we have demonstrated our commitment to responsible environmental behaviour, including prevention of pollution, control and reduction of waste, and ongoing monitoring and improvement of our environmental performance. Achieving ISO 14001 is just one part of our ongoing commitment to operate in a sustainable way.

BS EN ISO 14001:2015 Certificate No. EMS 800254

FITTING INSTRUCTIONS

Comprehensive fitting instructions are available to download from our website **www.lorientuk.com**

COMPATIBILITY

All Lorient Architectural Seals are compatible with the materials normally used in doors and door frames, including wood, steel, PVC, aluminium and glass.

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 a service to designers, contractors and manufacturers.

GUARANTEE OF ORIGIN

Each production batch of Lorient seals is laser engraved unobtrusively on the edge of the profile with the Lorient name and a code reference. This ensures the product and details of its production can be traced should the need arise.

Unidentifiable substitute products should never be accepted.

MADE IN BRITAIN

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

INTELLECTUAL PROPERTY

© 2025 Lorient – this brochure is protected by copyright and neither the drawings nor the text may be reproduced or transmitted in any form without prior consent from Lorient. Lorient products described in this brochure are protected by patents and design registrations in Great Britain and other countries.

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.

September 2025.

TRADE ASSOCIATIONS

Lorient is a member and active contributor to the following:

ACCREDITATIONS

BBA

BBA approvals provide independent assurance for the designer, specifier and end-user as to the 'fitness for purpose' of building products.

CERTIFIRE

Operated by Exova Warringtonfire, CERTIFIRE is an accredited independent product conformity scheme that requires products to meet the requirements of the tests, to add minimal resistance to opening and closing forces, to prove long term performance under a variety of service conditions, and to be permanently marked for easy identification.

IFC

IFC Certification Ltd is a UKAS approved and internationally recognised provider of third party Certification services – designed to give confidence to specifiers, users, occupiers, owners and enforcement bodies that products have been thoroughly and independently evaluated and will continue to be manufactured to the same specification as originally tested.

UL

UL is a global independent safety science company that tests a diverse range of products; representative samples of a product must be tested and meet UL's stringent requirements to carry the marque. These requirements are based primarily on UL's published and nationally recognised Standards for Safety. Businesses, consumers and regulatory authorities around the world recognise the trusted rigour and technical excellence of UL certifications. Lorient is proud to have achieved the UL Mark on many of its products. These are detailed on individual pages.

COMPREHENSIVE SUPPORT

We continue to lead the way in Research + Development. As a company we have over 45 years' experience, so our experts are well equipped to listen, help and advise you on your sealing system requirements.

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

The tool allows users to select a specific decibel rating; along with door configuration, fire door rating, doorset type etc to filter the results.

If you're looking for high performance or specialist applications – please contact us, there may be some additional configurations we haven't yet published.



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 products sheets are also available for download, together with copies of certification and specification texts

Online ATG Product Selector

The ATG Product Selector on our website provides quick and easy access to a wide range of tested air transfer grille applications for doors, walls, and ducts.

www.lorientuk.com/grilles

This intuitive tool allows users to select an intumescent air transfer grille based on several critical factors, including application, fire resistance, integrity, and insulation. Our comprehensive database ensures that you can find the right product to meet your specific needs.

If you need help specifiying the right air transfer grilles for your project, our technical team are here to help.



Technical Services

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.

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

+44 (0) 1626 834252

www.lorientuk.com

MAINTENANCE GUIDE

Lorient products are generally regarded as low maintenance; however periodic inspection and cleaning is recommended for all types of seals. For care and maintenance information of Lorient products follow these guidelines.

Maintenance Inspection

All products should be inspected every **12 months.**

Aluminium & Gasket Products

Lorient aluminium and gasket products can be cleaned with mild soap and warm water.

A non-abrasive cloth should be used to clean the surface of these products followed by mild soap mixed with warm water. Allow to air dry or wipe dry with a chamois, squeegee, or lint-free cloth.

The use of strong solvents or cleaner concentrations may cause damage to the surface and is not recommended.

Check all products are securely attached to the door or frame in accordance with Lorient's installation instructions. Re-attach where necessary.

Drop Seals

Check the drop seal is functioning correctly, deploying and retracting fully. Check release knob, sealing gasket and lift height. Check the gasket is intact and undamaged. If the gasket is damaged, it must be replaced with like for like. Clean as above and adjust if necessary.

Batwing Seals

Check that the seal including any fins are intact, undamaged and fixed in position. If damaged or missing replace with the like for like fire seal. If fins are overpainted replace with like for like.

Note

Recommendations as to cleaning methods are based on the experience and knowledge of Lorient and are given in good faith as a general guide.



TESTING + TECHNICAL SERVICES

We've built our reputation on the quality and dependability of our products, and our investment in R&D has played a pivotal role in keeping our products at the forefront of our industry. Our dedicated Testing and Technical Services division has established itself as an important facility for manufacturers and designers of doors, windows, glazing systems and hardware, to name just a few.

TESTING SERVICES

Whether you're investigating new materials, or developing new or existing products, right through to durability testing and benchmarking performance – our team of experts will support you throughout the process. We are able to offer:

- Fire testing (indicative)
- Smoke leakage
- Air leakage
- ATG commissioning and maintenance for fire & smoke resisting air transfer grilles
- Mechanical cycling
- Environmental chamber analysis
- Attendance at external fire tests
- Consultancy services.



Lorient Indicative Furnace

SEALING SOLUTIONS

Detailed information about our products can be found in the following brochures:



Lorient Architectural Seals

A comprehensive range of innovative door sealing solutions—designed to improve performance and enhance aesthetics. The collection includes perimeter seals, drop seals, door bottom seals, threshold plates, and more - engineered for durability, efficiency, and seamless integration.

Fire, Smoke and Acoustic Seals for Door Assemblies

Our core range of high-performance fire, smoke and acoustic seals for door assemblies.

Planet Drop Seals

A versatile range of high-performance drop seals designed for acoustic, smoke, and fire containment. Suitable for timber, metal, PVC, and glass doors - including hinged, sliding, folding, and swing.

Fire and Smoke Resistant Air Transfer Grilles

A comprehensive range of fire, and fire and smoke resistant intumescent air transfer grilles for doors, walls, ducts, floors and ceilings.

Fire Resistant Door Hardware Protection

Letterplates, door edge protectors and intumescent kits that can safely be installed into fire rated doors without compromising the fire/smoke performance.

Fire Resistant Glazing Systems

Fire resistant glazing systems for doors, screens and partitions

Acoustic Sealing Systems for Door Assemblies

A comprehensive series of acoustic sealing systems for various types of door construction.

Copies of these brochures are available by calling **+44 (0)1626 834252** or download from our website **www.lorientuk.com**

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E: sales@lorientuk.com

For further information about Lorient products please visit:
www.lorientgroup.com

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