



Product Overview & Selector

GIVE YOUR SPECIFICATION

integrity[®]



Architectural Seals

Containment Type

To assist with the selection and specification of Lorient seals, we have developed the following icons to indicate their functional properties and possible applications.



Ambient (Cold) Smoke: Smoke leakage data available as tested to AS/NZS1530:part 7 for ambient (cold) smoke. Most seals have been tested AFTER 100,000 opening and closing cycles.



Medium Smoke: Smoke leakage data available as tested to AS/NZS1530:part 7 for medium temperature smoke (up to 200°C) for 30 minutes exposure duration.



Fire & Hot Smoke: This designation is of most interest to fire safety engineers and looks at the performance of door sets in fully developed fires where smoke temperatures exceed 600C.

For a fire and hot smoke seal, high performance intumescent seals are necessary. Supporting data includes :

- Standard fire resistance testing incorporating a cotton wool pad hot smoke integrity test to the basic principles of AS1530/4 with both cellulosic (standard) and plastic (hydrocarbon) heating regimes.
- Testing to Warrington FSE021 – unit entry door / corridor test methodology where tenability in an adjoining corridor is measured and presented for fire safety engineers



Proprietary Fire Doors: Fire tests to AS1530/4 have been conducted on one or more proprietary fire door constructions to show that the addition of these seals will not effect the already established fire resistance levels of the fire doors.

Strict compliance with AS/NZS1905/1 requires each door type to be tested with each item of hardware. For each project, please check with the respective fire door manufacture to verify that their door construction has the relevant listing for Lorient Integrity seals.



Smoke Doors: Although there is no substitute for performance testing to AS/NZS1530/7 for smoke leakage, at the time of writing, the Building Code Of Australia, in Specification C3.4, deemed to satisfy provisions, requires the use of smoke seals for smoke doors. Specification C3.4 is very ambiguous and can be interpreted in many different ways.

If seals are to be used for smoke doors, the Lorient Integrity's silicone gasket versions may be deemed to satisfy the temperature and duration requirements (200°C for 30 minutes), but the design should ensure, especially for compression type seals, that a stable door leaf with proven performance at these conditions is used to ensure a continuous seal against smoke.

It should also be noted that there have been recent discussions by industry at large suggesting that this specification may be tightened requiring performance testing to AS/NZS1530/7 in future amendments to the BCA.

Please refer to ambient, medium, fire and hot smoke symbols above for proven smoke leakage performance to AS/NZS1530/7.



Sound Containment (Acoustics): Testing for door assemblies incorporating these seals has been conducted to AS1191 and/or ISO140 Part 3 and both Rw and STC single value ratings are available as calculated using the principles of AS1276 – 1999 and the superseded version dated 1979 respectively.

Individual results at specific frequencies of sound are also available in graphical format as is the improvement compared to an unsealed door. Please contact our office for additional information relating to field test results and Dn,T,w values which are being discussed as requirements for future amendments to the BCA.



Light: An effective seal to limit light infiltration through the perimeter or door bottom gaps around doors.



Weather Containment: An effective seal to stop rain infiltration through external doors and windows. Rain infiltration and water penetration testing is required by the Building Code of Australia for windows and for some doors on the external envelope of a building. The relevant product standard is AS2047 – 1999, which requires water penetration testing to AS4420/5.



Draughts and Dust: An effective seal to limit draught and dust entry through the perimeter or door bottom gaps around doors.

Air infiltration testing to AS4420/4, or air leakage testing to AS/NZS1530/7 may provide useful data for specific applications where performance testing is required.



Vermin: An effective seal to stop insects, and other vermin such as birds from entering through the gaps around doors, windows and roller shutters.



Energy Containment: An effective seal to assist in energy conservation and therefore help in the reduction of greenhouse gas emissions, by keeping hot or cold air within designated areas.



Disabled Access: For seals, this designation means the product if properly installed will ensure the opening and closing forces of the door are such that they will not exceed the limit allowable for disabled access as governed by the Building Code of Australia and AS1428/1. This is particularly important for automatic door bottom seals where the door closer has to overcome the force to actuate the actuator button.

For threshold plates and ramps, the overall height dimension and inclination comply with the Building Code of Australia and AS1428/1 deemed to satisfy access for disabled requirements for wheelchairs.

Duty Levels



Light Duty: Seals designed for use in residential buildings with light traffic thoroughfare.



Medium Duty: Seals designed for use in commercial buildings with medium traffic thoroughfare.



Heavy Duty: Seals designed for use in buildings with heavy traffic thoroughfare.

Door Type



Single Leaf
Single Swing Door



Sliding Door



Double Leaf
Single Swing Door



Roller Door



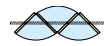
Single Leaf
Double Swing Door



Tilt Door



Double Leaf
Double Swing Door



Bi-fold Door
(operable wall)



Revolving Door



CAD Drawings

Detailed CAD drawings that can be used for specification purposes are available on CD or via the Internet. Please visit www.lorient.com.au for further information or contact the Lorient office.

Compatibility

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

Copyright

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Integrity Architectural Seals are designed and manufactured in Australia.

Disclaimer

Lorient Australia Pty Ltd does its utmost to ensure that all technical information and recommendations are based upon good research and our wealth of experience. We provide the data on our literature in good faith, and as such, accept no liability.

We urge users to determine the suitability of the products shown for their particular regional requirements, and to ensure that they meet the relevant fire and smoke regulations and codes for their country of intended use, as these may differ greatly from country to country. Please feel free to contact our technical staff, who would be delighted to advise you on specific regulatory issues.

Lorient companies reserve the rights to alter, delete or make obsolete any product featured in our literature without prior notice.

Door Sets

There are a number of seals available pre-cut in packs to suit the complete door frame. They are available in Single, Long Single, Double and Long Double Door Sets.

Finishes

The range offers today's specifier the widest choice of finishes available, including stainless steel, silver (clear) anodised aluminium and bronze anodised aluminium - allowing the freedom to match and complement existing door hardware. Other finishes and colours are available to special order. Note, colour variances may occur in the anodising process. Please ask for a sample to verify colour match.

Fixing

All Integrity® Architectural Seals are supplied with detailed fixing instructions. Fixing screws and self-adhesive backing are supplied when specified on the datasheet or fixing instruction.

Handling

No special precautions are required when handling Integrity® Architectural Seals, but they should always be treated with care and not bent or twisted.

Maintenance

Periodic inspection/cleaning is recommended for all types of seals. Worn or damaged seals should be replaced without delay.

New and Custom Made Products

Adopting an innovative approach, Lorient is continually adding to its range of products. If you do not find your exact requirement within this brochure, please call our office. We may well be able to supply an existing non-standard item or develop a customised solution for you.

Ordering, Supply and Delivery

All Lorient products are generally available from stock from one of our many national distributor outlets.

Prices and Conditions of Sale

A price list for all Lorient products is available on request. The Lorient policy of continuing development means that the products supplied may differ slightly from those described in this brochure. All products are sold subject to Lorient's terms and conditions of sale which are available on request.

Product Illustrations

All dimensions are given in millimeters.

Specification

Please view individual data sheets for detailed specification.

Storage

Integrity® Architectural Seals are to be stored in a clean and dry area away from heat.

Technical Services and Support

Lorient is always happy to provide specialist advice on fire and smoke protection, for both refurbishment and new build projects.

We offer:

- a telephone help line
- site visits
- copies of relevant test reports
- samples
- technical and performance specifications
- help and advice on meeting Building Regulations and Standards

Trade Associations

Lorient is a member of a number of key industry trade associations - the Architectural Hardware Industry Association (AHIA), the Australian Window Association (AWA), the Fire Protection Association of Australia (FPAA) and the Window and Door Industry Council (WADIC).



Web Site

Lorient's web site features up to date information including:

- drawings
- product datasheets
- fixing instructions
- product selector
- Building Regulations and Standards help and advice
- news and new products

Access the Lorient Australia web site on

www.lorient.com.au

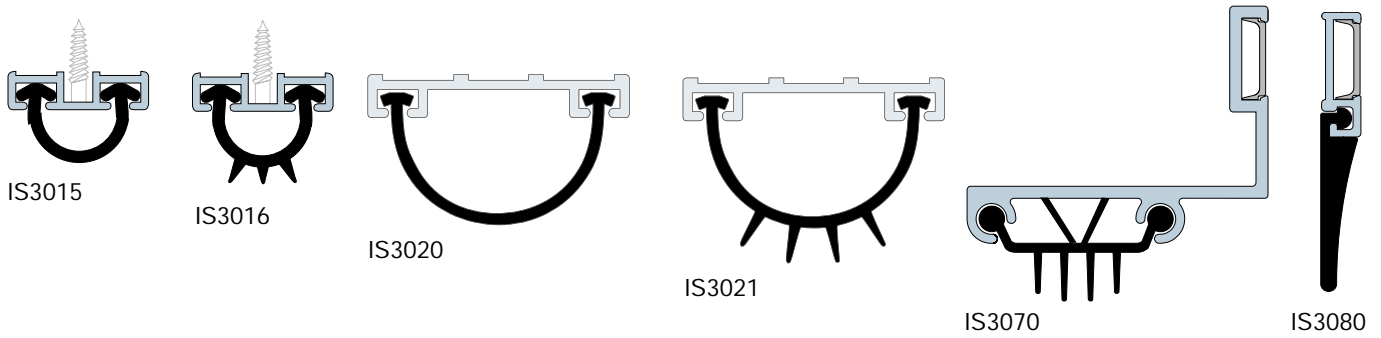
© 2001 Lorient Australia



Architectural Seals

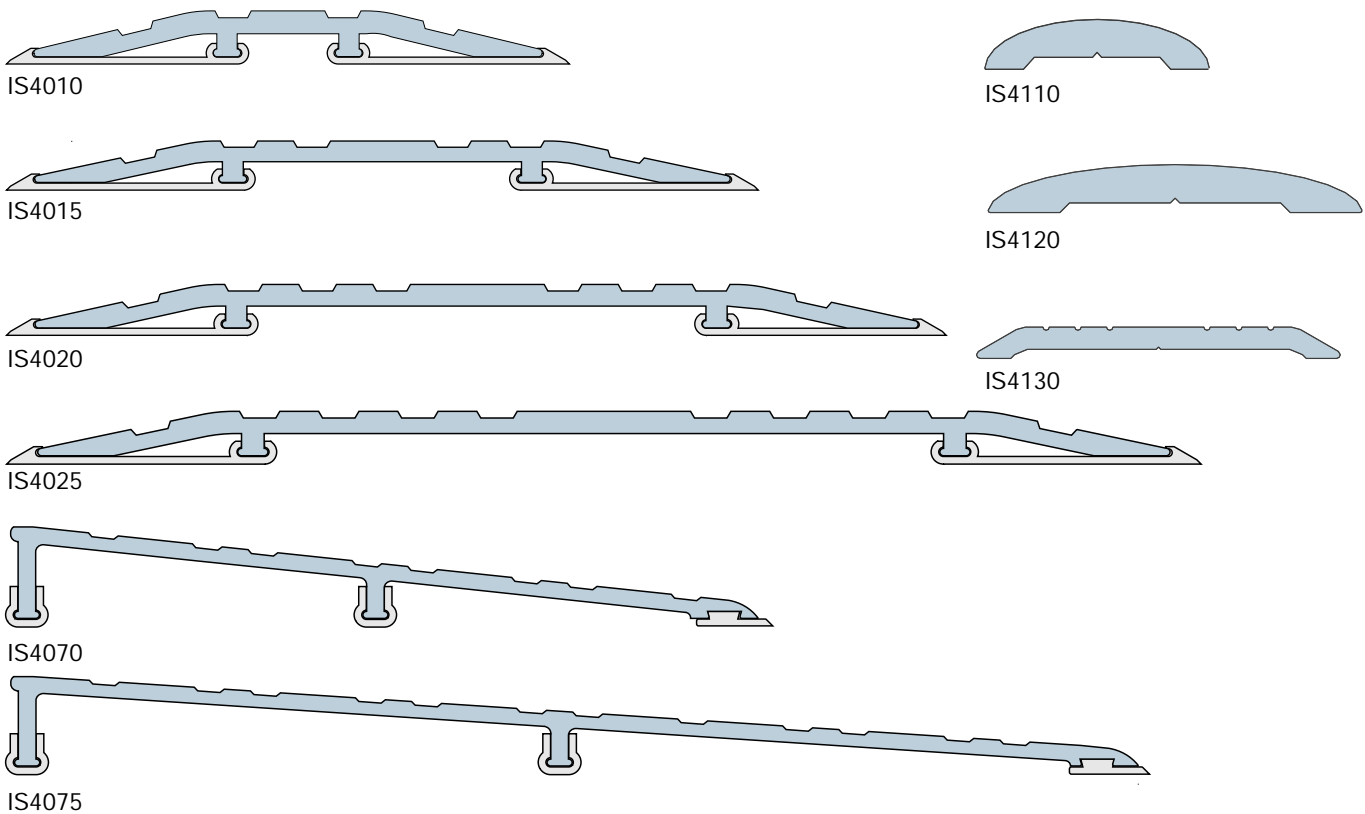
Product Overview

3000 Series Door Bottom Seals



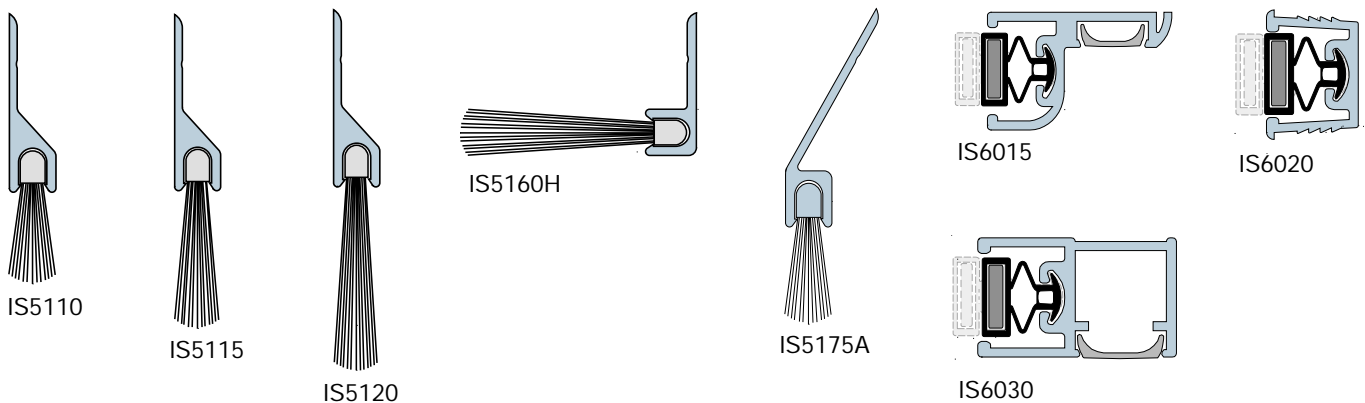
N.B. These products can also be used as perimeter seals, see data sheets

4000 Series Threshold Plates & Ramps



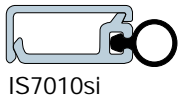
N.B. Special non-slip finish available

5000 Series Brush Seals 6000 Series Magnetic Seals

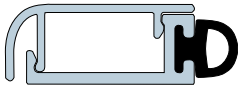


N.B. Brush only codes are 5110B, 5115B, 5120B

7000 Series Perimeter Seals



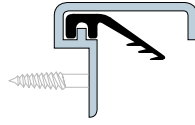
IS7010si



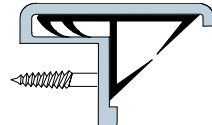
IS7020si



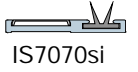
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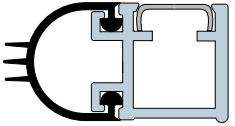
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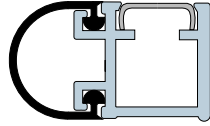
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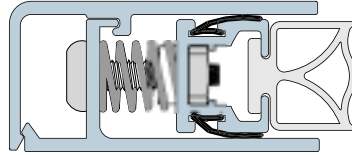
IS7070si



IS7080



IS7085si



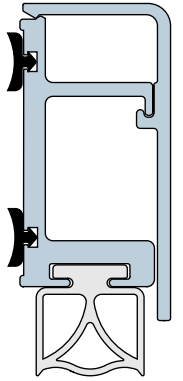
IS7090si



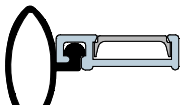
IS7100



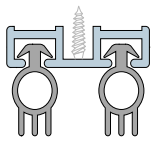
IS7110



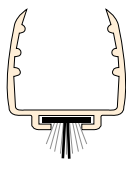
IS7190si



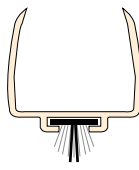
IS7120



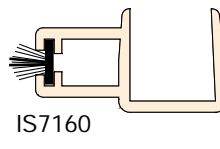
IS7130



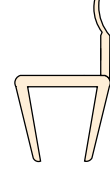
IS7140



IS7150

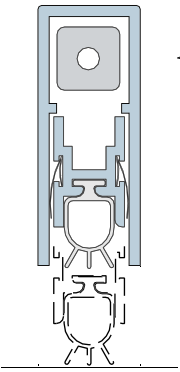


IS7160

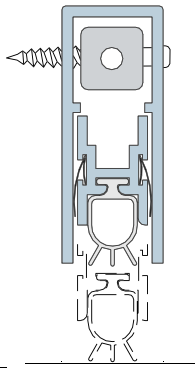


IS7170

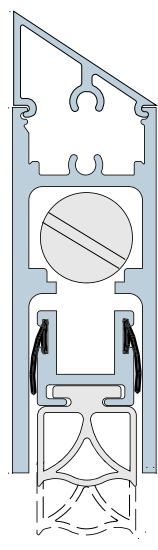
8000 Series Automatic Door Bottom Seals



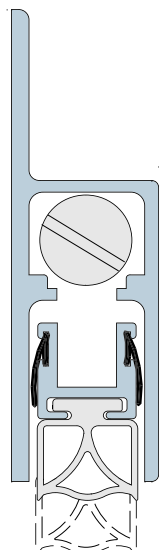
IS8010si



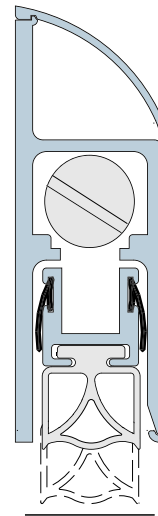
IS8011si



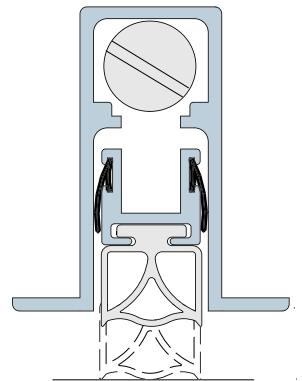
IS8020si



IS8090si



IS8091si

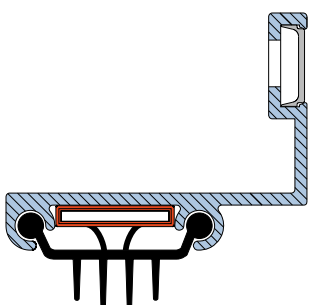


IS8100si

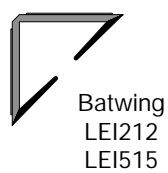
Speciality Seals



IS9010



FDBU20



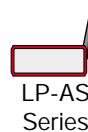
Batwing
LEI212
LEI515



HP4002



LP Series



LP-AS
Series



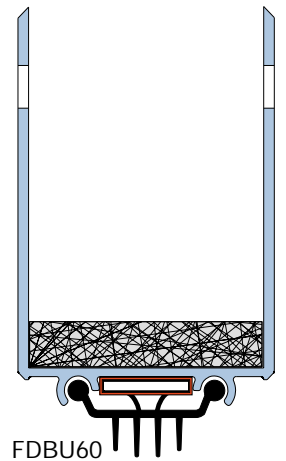
LP-TS
Series



Firtree
LEO511



TFS915



FDBU60

Product Selector

Series	Product Codes	Product Description	Door Type									
3000 Door Bottom Seals	IS3015	Rebated sweep-type seal for door bottoms & meeting stiles	▲	▲	◆	▲				◆	◆	
	IS3016	Finned, rebated sweep-type seal for door bottoms & meeting stiles	◆	◆	◆					◆	◆	
	IS3020	Large sweep-type seal for door bottoms & meeting stiles	◆	◆	◆	◆				◆	◆	
	IS3021	Large, finned sweep-type seal for door bottoms & meeting stiles	◆	◆	◆					◆	◆	
	IS3070	Face-fixed weather seal for door bottoms	▲	▲	◆	◆				▲		
	IS3080	Slim-line sweep-type seal for door bottoms & meeting stiles	◆	◆	◆	◆				◆	◆	◆
4000 Threshold Plates	IS4010,4015,4020,4025	Low profile, heavy duty threshold plates	▲	▲	◆	▲				◆	◆	◆
	IS4070, IS4075	Heavy duty threshold ramps for disabled access	▲	▲						◆	◆	◆
	IS4110, 4120, 4130	Low profile, medium duty threshold plates	◆	◆	◆	◆				◆	◆	◆
5000 Brush Seals	IS5110, 5115, 5120	Sweep action brush seals	◆	◆	◆	◆	▲	▲	▲	▲	▲	◆
	IS5160H	Sweep action horizontal brush seal	◆	◆	◆	◆	▲	▲	▲	▲	▲	◆
	IS5175A	Sweep action angled brush seal	◆	◆	◆	◆	▲	▲	▲	▲	▲	◆
6000 Magnetic Seals	IS6015	Magnetic perimeter seal (with cover strip) for steel clad doors	▲	◆					◆			◆
	IS6020	Magnetic perimeter seal (with cover strip) for steel clad doors		▲	◆	▲			◆			
	IS6030	Magnetic seal for double swing doors & sliding door meeting stiles	◆	◆					◆			◆
7000 Perimeter Seals	IS7010si	Acoustic door perimeter seal for rebated frames (with cover plate)	▲	▲								◆
	IS7020si	Acoustic door perimeter seal for plain or rebated frames (with cover plate)	▲	▲								◆
	IS7025	Slim-line finned door perimeter seal	▲	▲								◆
	IS7025si	Slim-line finned door perimeter seal with silicone gasket	▲	▲								◆
	IS7060	Plain or rebated meeting stile seal		▲								◆
	IS7061	Innovative "Batwing" seal for plain or rebated meeting stiles		▲								◆
	IS7070si	Astragal seal for plain or rebated meeting stiles with silicone fins	◆	▲	◆	◆	◆	◆				▲
	IS7080	Compact perimeter seal for single swing doors	▲	◆								◆
	IS7080si	Compact perimeter seal for single swing doors with silicone gasket	▲	◆								◆
	IS7085si	Perimeter seal for clean room single swing doors with silicone gasket	◆	◆								◆
	IS7090si	Innovative self-adjusting, adjustable heavy duty perimeter seal	▲	▲								◆
	IS7100	Compensating slim-line perimeter seal	▲	▲								◆
	IS7110	Compression type door perimeter seal	▲	▲								◆
	IS7120	Compensating elliptical compression seal for rebated door frames	◆	◆								
	IS7130	Acoustic perimeter seal for door stops of sufficient depth	◆	◆								
8000 Automatic Door Bottom Seals	IS7140,50,60,70	Clear, aesthetic meeting stile/door edge seal for frameless glass doors			▲	▲			▲			
	IS7190si	Heavy duty acoustic perimeter seal	▲	▲								
	IS8010si	Fully mortised automatic door bottom seal	▲	▲								▲
	IS8011si	Innovative face-fixed or semi-mortised automatic door bottom seal	▲	▲								
	IS8020si	Aesthetically designed automatic door bottom seal with reversable cover plate	▲	▲								
	IS8090si	Heavy duty face-fixed or semi-mortised automatic door bottom seal	▲	▲								◆
	IS8091si	Aesthetically designed face-fixed automatic door bottom seal with cover plate	▲	▲								
	IS8100si	Heavy duty, fully mortised automatic door bottom seal	▲	▲								◆
Specialty Seals	IS9010	Finger guard seal fixed to the hinge side of a door	▲	▲	▲	▲						◆
	FDBU20	Fire door bottom upgrade for 35mm and 45mm fire doors	▲	▲								
	FDBU60-35	Fire door bottom upgrade for 35mm fire doors	▲	▲								
	FDBU60-45	Fire door bottom upgrade for 45mm fire doors	▲	▲								
	HP4002	Low profile intumescent retro-fit seal for upgrading fire door perimeters	▲	▲								◆
	LE0511	Smoke and acoustic privacy seal for door perimeters	▲	▲	◆	▲						▲
	LE1212, LE1515	"Batwing" smoke and acoustic seal for door perimeters	▲	▲								▲
	LP Series	Intumescent fire seal for door perimeters	▲	▲	▲	▲						▲
	LP-AS Series	Intumescent fire, smoke & acoustic seal for door perimeters	▲	▲	▲	▲						▲
	LP-TS Series	Intumescent fire, smoke & acoustic seal for door perimeters	▲	▲	▲	◆						▲
TFS915	Door bottom sweep-type seal	▲	▲	▲	▲				◆	◆	▲	

- ▲ Seal recommended for this door type
- ◆ Third party test data available
- ◆ Seal may be used for this door type
- Lorient recommendation based on experience or test programme pending

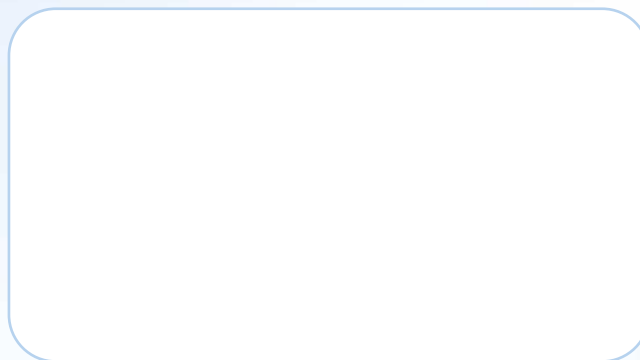


Containment

												Duty	Product Codes	Series
						●	●	●	●	●		M	IS3015	3000 Door Bottom Seals
						●	●	●	●	●		M	IS3016	
						●	●	●	●	●		H	IS3020	
						●	●	●	●	●		H	IS3021	
●					●	●	●	●	●	●		H	IS3070	
●			●		●	●	●	●	●	●		H	IS3080	4000 Threshold Plates
			■				●				●	H	IS4010,4015,4020,4025	
			■				●				●	H	IS4070, IS4075	
			■								●	M	IS4110, 4120, 4130	5000 Brush Seals
						●		●	●	●		H	IS5110, 5115, 5120	
						●		●	●	●		H	IS5160H	
						●		●	●	●		H	IS5175A	6000 Magnetic Seals
					●	●		●	●	●		M	IS6015	
					■	●		●	●	●		M	IS6020	
●					■	●		●	●	●		M	IS6030	7000 Perimeter Seals
●	●			●	●	●		●	●	●		M	IS7010si	
●	●		●	●	●	●		●	●	●		M	IS7020si	
●					■	●		●	●	●		M	IS7025	
●	●		■	●	■	●		●	●	●		M	IS7025si	
●					■	●		●	●	●		M	IS7060	
●	●			●	●	●		●	●	●		M	IS7061	
●	●		●	●	●	●		●	●	●		M	IS7070si	
●					■	●		●	●	●		M	IS7080	
●	●		■	●	■	●		●	●	●		M	IS7080si	
●	●		●	●	●	●		●	●	●		M	IS7085si	
●	●		■	●	●	●		●	●	●		H	IS7090si	
●					●	●		●	●	●		M	IS7100	
●					■	●		●	●	●		M	IS7110	
					●	●		●	●	●		M	IS7120	
					■	●		●	●	●		H	IS7130	
					●	●		●	●	●		H	IS7140,50,60,70	
●	●		●	●	●	●		●	●	●		H	IS7190si	8000 Automatic Door Bottom Seals
●	●		■	●	■	●		●	●	●	●	M	IS8010si	
●	●		■	●	●	●		●	●	●	●	M	IS8011si	
●	●	●	■	●	●	●		●	●	●	●	H	IS8020si	
●	●	■	■	●	●	●		●	●	●	●	H	IS8090si	
●	●	●	●	●	●	●		●	●	●	●	H	IS8091si	
●	●		●	●	●	●		●	●	●	●	H	IS8100si	Specialty Seals
												H	IS9010	
●	●	■	■	●	●	●		●	●	●		N/A	FDBU20	
●	●	■	■	●	●	●		●	●	●		N/A	FDBU60-35	
●	●	●	■	●	●	●		●	●	●		N/A	FDBU60-45	
		■	■									N/A	HP4002	
●	●		■	●	■	●		●	●	●		N/A	LE0511	
●	■	●	■	●	■	●		●	●	●		N/A	LE1212, LE1515	
		■	■									N/A	LP Series	
■	■	■	■	●	■	●		●	●	●		N/A	LP-AS Series	
●	●	■	■	●	■	●		●	●	●		N/A	LP-TS Series	
●			■		●	●		●	●	●		N/A	TFS915	

- ▲ Seal recommended for this door type
- Third party test data available
- ◆ Seal may be used for this door type
- Lorient recommendation based on experience or test programme pending





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