



Fire, smoke and acoustic sealing systems

NOBERNE SEALS PRODUCT GUIDE

contents

Introducing Noberne Seals	3
Fire Door Seals	9
Glazing	15
Acoustics	23
Ventilation Systems	31
Ancillaries	35
Additional information and support	39

Trust in Noberne

At Noberne Seals we supply the best fire, smoke and acoustic sealing systems available. We are passionate about the products and service that we provide to our customers. We believe in working with you to source the best product for your requirements. We aim to do this whilst also offering value for money, excellent product knowledge and expertise, as well as quality customer service.

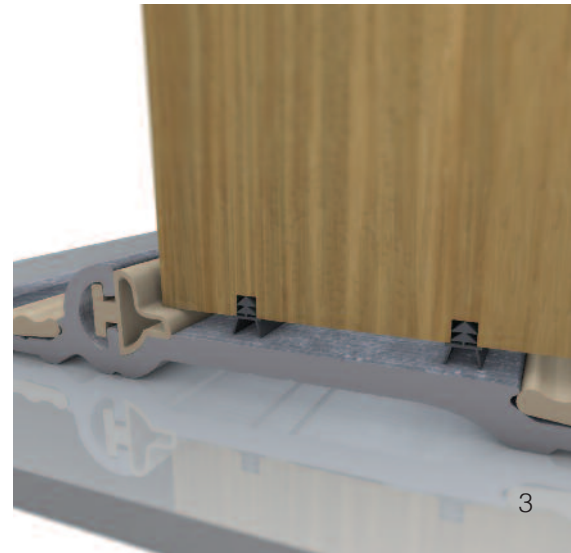
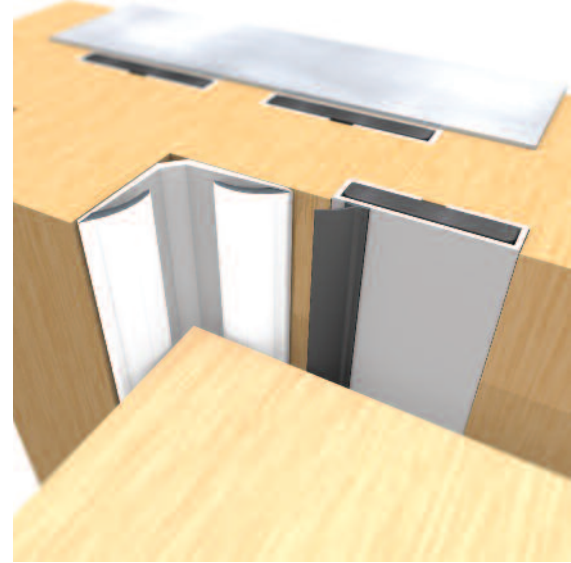
With more than 25 years experience of distributing sealing systems we know how to give our customers what they need and when they want it. We have a proven track record that instils trust and confidence. Our team are capable of understanding your requirements and delivering the result you need.

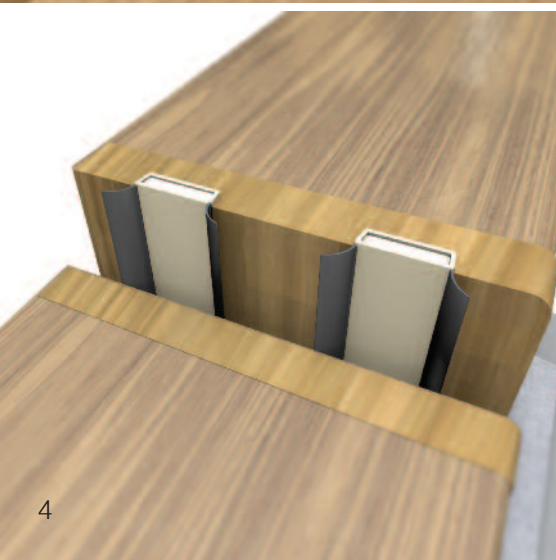
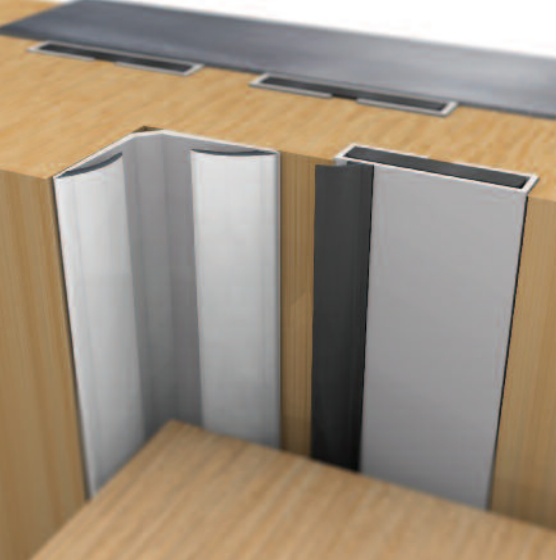
We recognise you as an individual company, your requirements and we respond by taking time to listen to your needs before offering a range of solutions to match your application and budget.

Once we've met your needs and your order has been placed, the products can be sent out with our next day service, which covers the whole UK mainland and Northern Ireland. We also offer a two-day delivery to the rest of the UK and Ireland. Noberne also service the European Union, the Far East and Middle East.

You can order with us direct through our online shop if you know the products that you require. **Please visit www.noberneseals.com to place your order or call on 0113 271 3266 to speak to our experienced team.**

Jonathan Agar, Director has been at the heart of the business since 1987 and has seen it grow into one of the UK's leading distributors of fire protection products. Noberne Seals are Approved Suppliers of the BWF Certifire Fire Door Scheme, offering 3rd Party Accredited systems which are tried and tested; a fact that Jonathan is immensely proud of. "In understanding that fire safety critical products need to be tried and tested, I wouldn't allow Noberne to supply our customers anything less than a Certifire approved seal".





Fire Door Seals

Over the last five years in the UK there has been an average of 350 deaths and over 10,000 serious injuries relating to fires in buildings each year*. Around 60% of these fatalities were as a direct result of inhaling toxic fumes or smoke. **The financial cost is also a major factor with fire damage estimated at over £34 million per day**.** These facts could be greatly reduced by containing the fire through use of effective fire and smoke doors fitted with the correct intumescent smoke seals.

The importance of fitting fire and smoke protection products should not be underestimated, they are a proven method of saving lives and properties if fitted in conjunction with a 3rd Party Accredited fire door assembly.

Our solutions

Noberne Seals offer ranges of fire, smoke and acoustic sealing systems that perform the primary function of providing resistance to fire and smoke, but also have the advantage of sound reduction capabilities too. Approved Document E to the Building Regulations (England & Wales) gives specific acoustic requirements for door assemblies and our fire, smoke and acoustic range has been designed to contain the transference of noise through the gaps around doors.

Our seals fall in to three main categories; Intumescent or fire seals, combined intumescent with a brush or smoke seal, and neoprene bladed seals design to combat fire, smoke and noise. Each type of seal can play a vital role as part of the door assembly if used correctly in its intended application.

Over the following pages we introduce our extensive range of fire, smoke and acoustic seals, there are variations that will provide solutions for use around ironmongery, give considerations for disabled access and also compliment the fire door and its furniture through unique design features.

*Source – Dept. for Communities & Local Government, Fire Statistical Release.

**Source – Association of British Insurers, News Release.

Fire Resistant Glazing Systems

Our range of fire resistant glazing systems are designed to provide solutions for fire doors and glazed screens from 30 minutes up to 120 minutes. When used with the correct door core or timber screen, and in conjunction with the relevant glass, these systems offer excellent levels of protection from fire. The use of glazed panels are a requirement in most buildings to allow the passage of natural light and allow vision for the user, this is often to comply with Approved Document M (England & Wales) which details sizes of vision panels to promote safety and accessibility.

At Noberne Seals we pride ourselves on understanding the technical aspects of glazing systems, all of our staff have undertaken training to be able to pass on the benefit of their knowledge, and allow the safe selection of the correct glazing seals. We'll guide you through this potential minefield and provide you with technical support including fire and acoustic test reports and certification.

Fire resistant glazing systems for doors or screens are generally in the form of a gasket or strip system. Usually supplied on a reel these seals provide a cost effective solution that eliminates falling waste. The Pyroplex®, Hodgson and Lorient ranges have been designed to reduce the potential of "glass rattle", their systems have features incorporated within them to take up differences in glass or door core tolerances. Noberne also offer a variety of closed cell and ceramic tapes which complement our glazing range. A good choice of colours are also available to compliment your door or screen finish.





Acoustic Sealing Systems

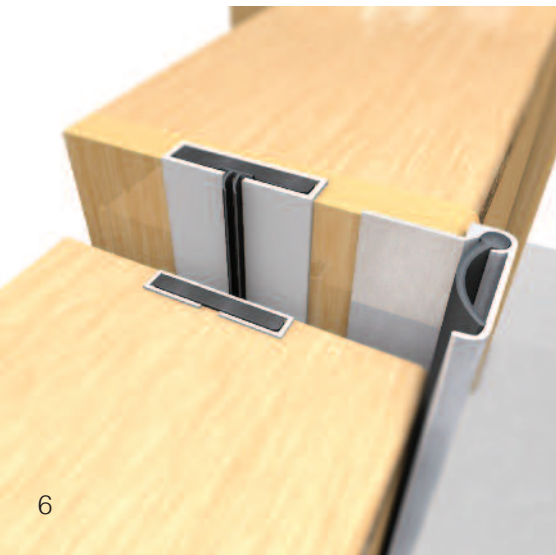
Acoustic containment has become an important consideration when designing modern buildings. Effective sealing systems can reduce noise which is essential in preserving the confidentiality of discussions in a consultation room or doctors surgery. The NHS Constitution states, **“You have the right to privacy and confidentiality and to expect the NHS to keep your confidential information safe and secure”**^{*}. Indeed Approved Document E to the Building Regulations (England & Wales) gives specific requirements for acoustic performance when installing sealing systems for door assemblies, which play a major part of building design.

In addition to Approve Document E, Section 8 recognises Building Bulletin 93 which gives clear guidance on the decibel reduction levels that are to be achieved when sealing doors in schools. **“All spaces used by students except music rooms 30dB Rw, music rooms 35dB Rw (Weighted sound reduction index)”**.

For many years Noberne Seals have understood the necessity for sound reduction within door assemblies, and have been at the forefront of the research and development of acoustic sealing systems. Whilst Noberne have developed their own Sonic range of acoustic seals, they have also been closely involved in the development and testing programmes of their suppliers. Our expertise has been utilised by market leaders Lorient and Pyroplex[®], who have both developed ranges of products that are unrivalled in the field of acoustics.

All the acoustic sealing systems supplied by Noberne have performed stringent tests in accordance with standard BS EN ISO 140-3: 1995, and are conducted under The United Kingdom Accreditation Service (UKAS) audited structure. It is important therefore that when specifying acoustic sealing systems a full test report is issued, otherwise you cannot be certain that any sound emittance will be successfully contained.

^{*}Section 3a of the NHS Constitution.



Fire & Smoke Resistant Air Transfer Grilles

Maintaining ambient temperatures through circulating warm and cool air requires our buildings to be well ventilated. The welfare of occupants relies upon frequent changes of air being passed from room to room and also from the exterior of a building to the interior, and vice versa.

Ventilation systems or Air Transfer Grilles can play an important role in assisting the passage of warm and cold air, but also support the requirements of fire safety. Typically these systems can be located in doors, walls and ducting to provide fire and smoke protection capabilities of up to 4hrs.

Our standard fire protection ventilators are supplied as a simple 3-part system comprising of the Air Transfer Grille (ATG) or "Intumescent Block" plus two louvred face plates. These ATG's are usually fire rated for doors and walls for 1 hour, and are available in various sizes to suit openings of upto 600mm x 600mm.

There are a number of specialist solutions available that include products suited for non-vision, higher fire ratings (up to 4hrs) and smoke control which require electrical connection to the alarm system.

More details are available on request from our sales team on 0113 271 3266, or email sales@noberneseals.com



Fire Door Protection Ancillaries

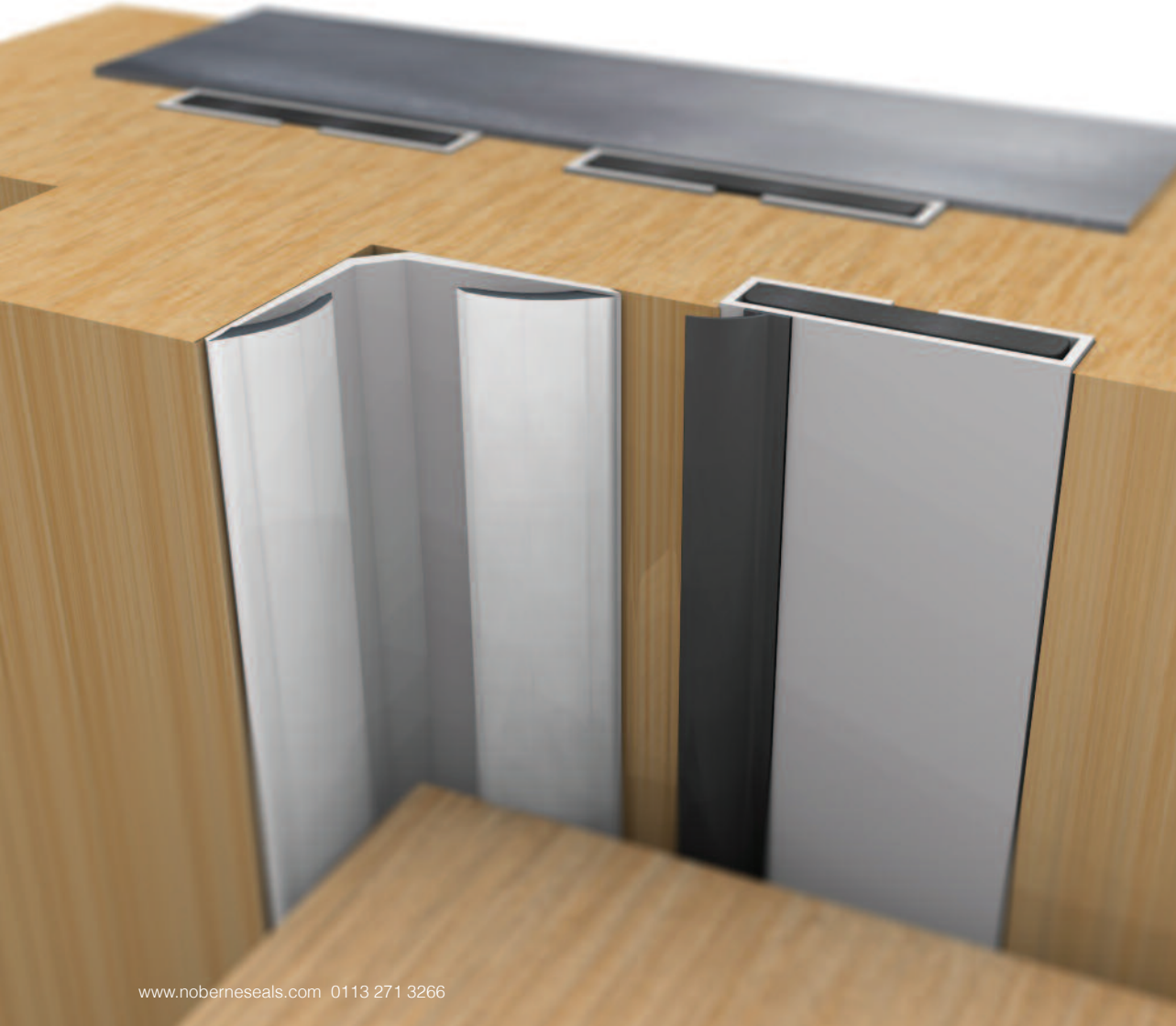
Fire doors are often required to receive protection around hardware to ensure they comply with regulations and test evidence. Hinges, locks, door closers and letterplates need to be fitted with the appropriate intumescent protection so that the fire and smoke integrity of the doorset isn't compromised.

Intumescent protection for hardware is available in a variety of shapes and sizes to suit the many different ironmongery products. At Noberne we can provide a bespoke solution to suit your individual needs, or a simple intumescent sheet that can be cut with sharp scissors or knife that will cover most hardware items.

Noberne Seals also provide solutions for systems to promote a longer lifespan of your fire door. Applying aluminium or PVC edge protection this reduces the need to replace the door, and gives added protection in areas of abuse, for example hospital and school corridors.

More details are available on request from our sales team on 0113 271 3266, or email sales@noberneseals.com





fire seals

Seals for Fire Doors

DS and Finesse™



Our DS and Finesse™ seals offer the ultimate in acoustic, smoke and fire protection with the added benefit of thermal containment too. Their unique design means that whichever way around the product is installed, the seal will always be fitted in the correct place, maintaining the integrity of the acoustic and smoke seal at the ironmongery points.

Key properties include; superior acoustic performance, exceptionally low frictional resistance, highly durable having achieved over a 1,000,000 opening and closing cycles and a choice of sizes to cover both FD30 and FD60 fire door assemblies. DS & Finesse™ also now feature integral antimicrobial protection.

Ideally suited for sealing gaps of 3mm/4mm, with special extrusions available for larger gaps.

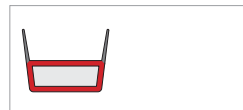
Standard lengths are 2100mm with other lengths to special order.

DS

Available in a range of standard colours, with black fins - to blend or contrast with the doorset as required. White fins are also available (please ask for details).

Finesse™

Available in a range of standard colours, plus woodgrain and metallic finishes for superior aesthetics. Its transparent fin construction provides a virtually invisible product - ideal for upgrading doorsets in heritage projects.



10 mm



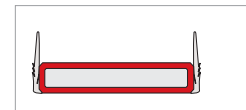
15 mm



20 mm



25 mm



15 mm



20 mm



Fire Seal

Available in a range of standard colours, plus woodgrain and metallic finishes for superior aesthetics.

SS

Available in a range of standard colours, plus woodgrain and metallic finishes with black brush profile to suit 3mm/4mm gaps, longer brush lengths are available to special order.

TS

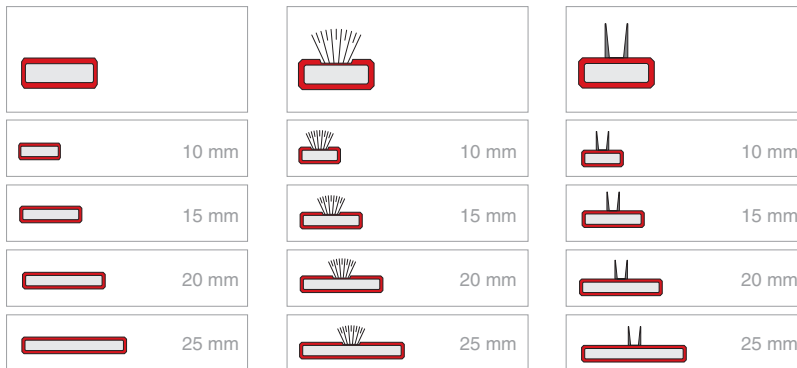
Available in a range of standard colours, plus woodgrain and metallic finishes with black fins to suit 3mm/4mm gaps, longer blade lengths (6mm) are available to special order.

The intumescent Fire Seal is used in applications where smoke or acoustic sealing is not required, available in a variety of sizes and colours, it can be used in fire doors with differing fire ratings and finishes.

Lorient's SS range is a combined intumescent fire and smoke seal incorporating a hard wearing polypropylene brush pile, which is fixed into the extruded profile to ensure it doesn't work loose in application. Probably the most popular type of seal used in fire doors, the SS range is versatile and provides excellent durability properties when in frequent use.

The TS profile has a set of durable centrally fitted elastomeric twin fins and has been a popular choice for a number of years. It boasts low-friction performance for ease of door operation, and enhanced smoke and acoustic protection.

Standard lengths are 2100mm with other lengths to special order.



Pyroplex® - Fire Seals

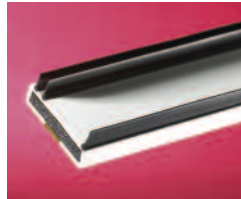
Seals for Fire Doors

Bladed Seals

Pyroplex® Flipper range provides fire, smoke and acoustic seals for timber door edges and frames. The flippers are thermally fused to the box section to ensure that under normal conditions of use they will not delaminate. This new technology ensures improved performance and also appearance of the seal. The Flipper range adds added security with an integral flipper that will remain uninterrupted when used with ironmongery.

The Flipper bladed seals feature TPV high performance polymer fins designed to give low surface friction, reducing opening and closing forces. They do not detach easily and have been cycle tested to over 100,000 cycles.

Standard lengths are 2100mm with other lengths to special order (minimum quantities apply).



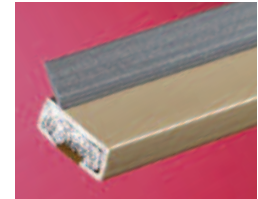
Triple Flipper

Available in three colours, brown, white and black with black fins to suit 3mm/4mm gaps, white and translucent fins are also available to order on request. *(Minimum quantities apply).*



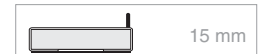
Twin Flipper

Available in six colours with black fins to suit 3mm/4mm gaps.



Side Flipper

Available in six colours with a black fin to suit 3mm/4mm gaps.





Fire Only

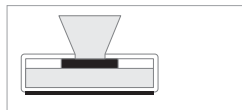
Available in six standard colours.

We can obtain 30mm and 38mm on request.



Fire and Smoke

Available in six colours with black polypropylene brush to suit 3mm/4mm gaps.



The Pyroplex® Fire and combined Fire and Smoke Seals are suitable for use in timber door leafs or frames in single and double action, and single or double door configurations.

Pyroplex® intumescent seals are manufactured from a graphite material which is high-pressure and multi-directional, offering great performance capabilities. Pyroplex's excellent extrusion techniques means the product offers a clean profile and comes with an acrylic self-adhesive backing for an easy push fit.

The Fire Only seal is used in applications where smoke or acoustic sealing is not required. Available in a variety of sizes and colours, it can be used in fire doors of different fire ratings whilst complementing the aesthetic finish of the doorset.

The Pyroplex® Fire and Smoke Seal combines an intumescent seal with a hard wearing polypropylene brush pile that gives protection from hot gases and smoke.

Standard lengths are 2100mm with other lengths to special order (minimum order quantities apply).

Seals for Fire Doors

ThermaSeal, ThermaStop and ThermaBlade



Intumescent Seals Limited (ISL) have been at the forefront of passive fire protection innovation for over 40 years. They were instrumental in designing the first PVC encapsulated fire seals that are commonplace today. With their many years of research and development their technical knowledge is second to none, and this becomes apparent in the performance of their products, indeed many fire door manufacturers turn to ISL as their first choice for intumescent seals.

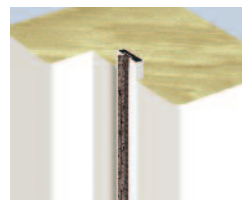
The ISL door edge seal range is based around three principle types of seal; ThermaSeal is a fire only product, ThermaStop gives fire and smoke protection, with ThermaBlade offering fire, smoke and acoustic sealing properties.

All are available in a range of colours and sizes, with standard lengths of 2100mm, other lengths and finishes are available to special order.



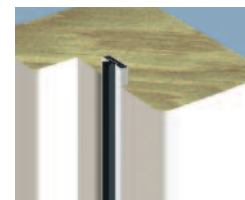
ThermaSeal

Available in six standard colours, 30mm and 38mm widths on special order.



ThermaStop

Available in six standard colours. Larger brush profiles - 30mm and 38mm widths on special order.



ThermaBlade

Available in six standard colours.

*We can obtain 30mm and 38mm on request.



10 mm



15 mm



20 mm



25 mm



10 mm



15 mm



20 mm



25 mm



10 mm



15 mm



20 mm



25 mm



glazing

Seals for Glazing

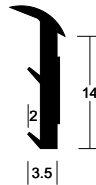
FD 30



In recent years Lorient have revised their extensive range of glazing solutions resulting in the most comprehensive range of systems for glazed fire doors and timber screens available. Their 36 PLUS channels are unrivalled and along with their FF1 gasket, Lorient have products that give great scope on glazed areas whilst meeting the cost efficient demands of modern manufacturing.

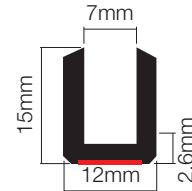
Fitting of the Lorient 36 PLUS range is completely clean and dry - no sealant, adhesive tape or wet adhesive is required. Corners are formed by simply notching the gasket with secateurs and stretching the channel around the pane.

The FF1 has a strong self-adhesive tape which is used to fix the gasket to the glazing beads. The beads are then cut to length, mitred and pinned or screwed into place as required. FF1 should be fitted to the beads on both sides of the glass.



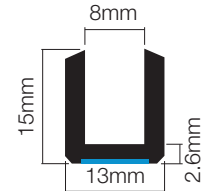
FF1

Stored on 50m coils, available in black as standard with white and light brown to special order. Suitable for fire rated glass widths of 5mm-7.2mm.



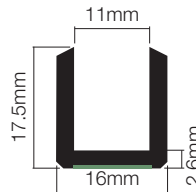
System 36/6 Plus

Stored on 60 metre coils in black with red spine. Suitable for fire rated glass widths of 6mm-7mm.



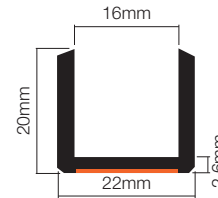
System 36/7 Plus

Stored on 60 metre coils in black with blue spine. Suitable for fire rated glass widths of 7mm-8mm.



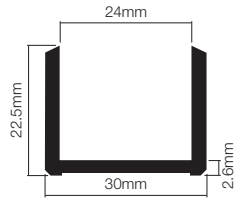
System 36/10 Plus

Stored on 30 metre coils in black with green spine. Suitable for fire rated glass widths of 9mm-11mm.



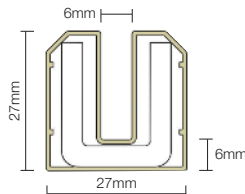
System 36/15 Plus

Stored on 30 metre coils in black with orange spine. Suitable for fire rated glass widths of 14mm-16mm.



System 36/23 Plus

Stored on 25 metre coils in black with white spine. Suitable for fire rated glass widths of 23mm (screens only).



System 90 Plus

Supplied in 2100mm, standard colours: cream, white, grey, black, red and light brown (other lengths and colours available on request). Suitable for fire rated glass widths of 5mm-6mm.

60 90 120



RF1

Supplied in packs comprising of 2 No. x RG2704 (2100mm) and 2 No. x B25402 (1050mm). Available in a black profile with white, cream, grey, black and light brown end caps. Suitable for a variety of fire rated glass types.

Lorient have developed glazing systems to give fire resistance for up to 120 minutes Their RF1, System 36 PLUS and System 90 PLUS ranges provide solutions for FD60, FD90 and FD120 fire rated doors and glazed screens. Glass thicknesses from 5mm through to 23mm can be used with Lorient fire resistant glazing systems.

Compatible for apertures of varying sizes and shapes, Lorient's glazing products can offer the user an answer to the minefield of fire resistant glazing.

Our technical sales advisors are happy to assist you in finding the right product for your application. Email our sales team on sales@noberneseals.com

Seals for Glazing

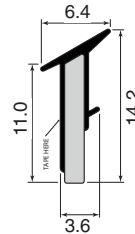
FD 30 and FD 60



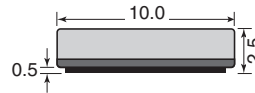
Pyroplex® fire-resisting glazing systems offer a range of solutions for glazing vision panels in fire doors. They are available for 30 and 60 minute applications and have been developed to provide an efficient and cost effective answer to common glazing problems. Due to varying door core thicknesses, glass can rattle if the glazing system used cannot take up the tolerance between the glass and beads. Using Pyroplex® 30049 for FD30 and PFG1HR for FD60 will eliminate these issues and also give great aesthetic sight lines.

The Pyroplex® FD30 glazing seals are also supplied on coils, meaning that falling waste is reduced and the storage space required is minimised.

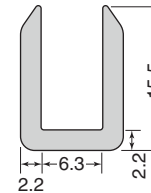
Pyroplex® systems are supported by international testing and certification including third party approvals.



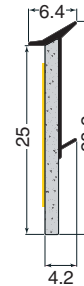
30049
Available on 100m coils in black with self-adhesive tape.



8492
Available on 250m coils in black with self-adhesive tape.



8193
Available on 100m coils in black.

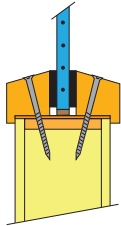


PFG1HR
3 Part system, consisting of 2 glazing seals and an aperture liner (2100mm) in black with self-adhesive tape.

Seals for Glazing

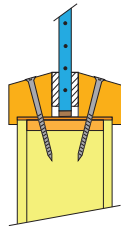


ThermaGlaze 30, ThermaGlaze 45, ThermaGlaze 60



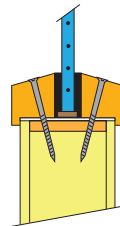
ThermaGlaze 30

Available in 2100mm lengths in graphite grey, with self-adhesive tape.



ThermaGlaze 45

Available in 2100mm lengths in light oak or white (other colours to special order), with self-adhesive tape.

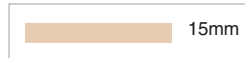


ThermaGlaze 60

3 Part system, consisting of 2 glazing seals and an aperture liner (2100mm) in black, white, brown, cream and red with self-adhesive tape.

Intumescent Seals Limited (ISL) supply trusted solutions for glazing timber fire doors and glazed screens. ISL have been designing and manufacturing fire resisting glazing systems since 1980, their expertise and innovation has earned them pioneer status within the passive fire protection industry.

Using simple designs combined with excellent chemical formulations has resulted in solutions that give great scope on sizes for 30 and 60 minute fire doors and screens. The FD30 systems are based upon an intumescent strip complete with self-adhesive backing, the FD60 system is similar but uses PVC encapsulation and an aperture liner.



Hodgson Seals - Glazing

Seals for Glazing

Firestrip 30, Firestrip 60 and Flexistrip



Hodgson Sealants are the largest manufacturer of butyl based fire resistant glazing systems in the UK. Their “putty on a roll” is one of the most commonly used products by glaziers due to its ease of use and its compatibility with a wide range of glass types.

With solutions for fire doors and glazed screens, the Firestrip systems are suitable for insulating and non-insulating glass types for FD30 and FD60 applications.

The Flexistrip is a load-bearing security glazing system (non-fire rated) design for simple on site use. Its weather resisting properties are ideal for external use and can be overpainted with solvent or water based paints or stains.



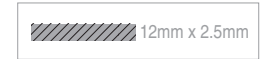
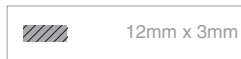
Firestrip 30
Available in mahogany or off-white in 15m rolls.



Firestrip 60
Available in mahogany or off-white in 15m rolls.



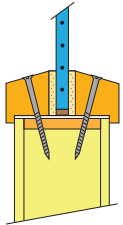
Flexistrip
Available in mahogany, black or off-white (contact our sales team for information on standard lengths).



Seals for Glazing



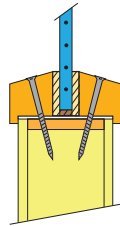
FireGlaze 2000, FireGlaze Compound and GL60 Liner



FireGlaze 2000

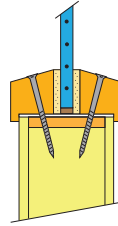
Available in 2100mm lengths in cream.

30 60 90 120



FireGlaze Compound

Available in 310ml cartridges in white, black, light oak, brown and grey.



GL60 Liner

Available in 2100mm lengths in white.

 25mm x 5mm

310ml

 44mm x 2mm

 35mm x 5mm

 54mm x 2mm

 63mm x 2mm

Sealmaster have revolutionised fire safety glazing and partitioning with their FireGlaze intumescent glazing systems. Suitable for timber fire doors and glazed screens for fire ratings up to FD120, FireGlaze systems allow the continuous runs of glass without the need to be broken by masonry fire walls or lobbies, they even allow glass panes to be butt jointed (30 minutes fire rating).

For use with all the main fire glass types, the Sealmaster FireGlaze range gives excellent scope on glazed areas for both doors and screens. FireGlaze systems offer an improved flow of natural light through buildings giving a crisper, cleaner and more open environment. They help to reduce the energy costs of artificial lighting and the effect of computer screens. They also offer savings in materials and installation time. Their benefits are transparent - setting new standards in fire safety glazing.

Seals for Glazing

Interdens (MAP) and Ceramic Fibre and Closed Cell Foam Tapes



Our specialist glazing range brings together solutions for glass types that incorporate an intumescent interlayer. This reduces the need for a high pressure intumescent glazing seal, instead using either a low pressure seal (interdens or ceramic tape) or a non-intumescent seal (closed cell foam tape).

Interdens or Mono-ammonium Phosphate (MAP) is one of the oldest and most widely used “low pressure” seals, its best feature is that it will slowly intumesce over a longer period of time and protect the beads from the transference of heat from the glass.

Ceramic Fibre Tape is manufactured from an alumina or calcium silicate wool material, the main characteristics are low thermal conductivity, low heat storage and thermal shock resistance.



Interdens (MAP)

Available in 1000mm lengths in white with self-adhesive backing.

10mm x 2mm

15mm x 2mm

20mm x 2mm



Ceramic Fibre Tape

Available in 10m rolls in white with self-adhesive backing.

15mm x 3mm

20mm x 3mm

20mm x 6mm

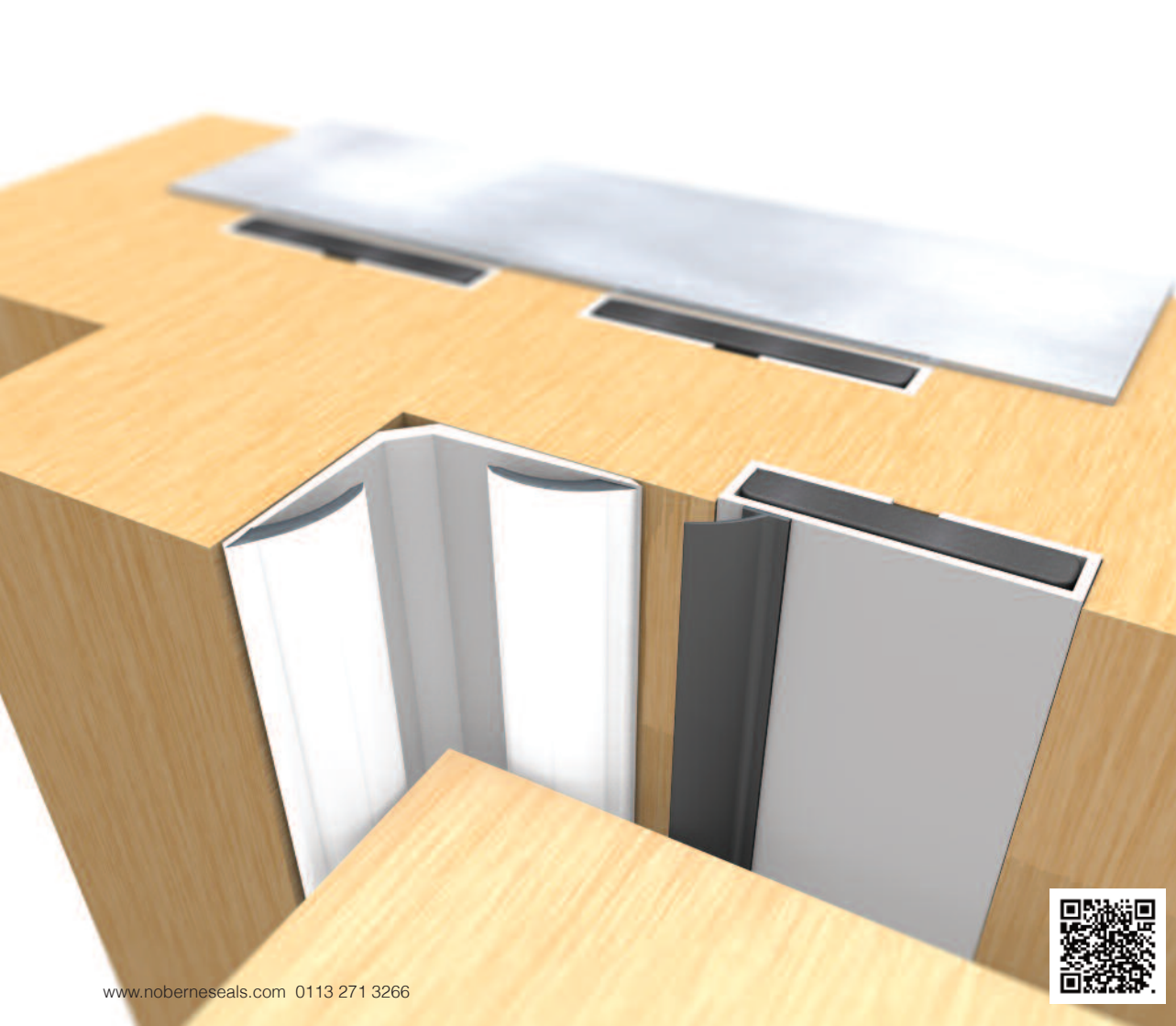


Closed Cell Foam Tape

Available in 25m or 40m rolls in black or white with self-adhesive backing.

15mm x 2mm

15mm x 3mm



acoustics



Acoustic Seals for Fire Doors

Acoustic Smoke and Fire Containment Systems



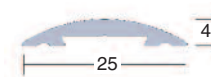
Fire door assemblies are an integral part of buildings, and while there must be gaps around the perimeter of the door for it to operate efficiently, these gaps allow sound to pass through. Sealing these gaps is crucial to reduce the amount of sound transferred from room to room. Lorient have developed a range of sealing systems to combat the elements of fire, sound and smoke providing an excellent barrier when the door is closed.

Lorient's acoustic seals can provide solutions for FD30 and FD60 fire door assemblies whilst offering a decibel reduction index of 35dB Rw.

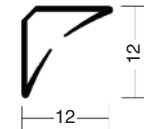
These systems are available in a wide variety of colours and sizes to meet demands on aesthetic finish and fire rating. Lorient also offer specialist solutions for higher acoustic performance, please speak with our Technical Department for more information.



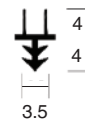
LAS 801si
Available in widths from 335mm to 1235mm, can be cut back 99mm (Except 335mm which cuts back to 80mm).



LAS 4001
Available in 2100mm or 1000mm lengths, in silver or bronze anodised aluminium.



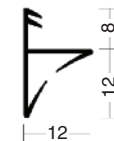
LAS 1212
Available in 2100mm (1000mm & 3000mm to special order), in black, white, brown, silver, grey, cream and clear finish.



LAS 1011
Available in 2100mm (1000mm & 3000mm to special order), in black or white.



DS
Available in a range of standard colours, with black fins - to blend or contrast with the doorset as required. White fins are also available (please ask for details).



LAS 1212k
Available in 2100mm (1000mm & 3000mm to special order), in black, white, brown, silver, grey, cream and clear finish.



CF330/CF341/CF5179



92/2841

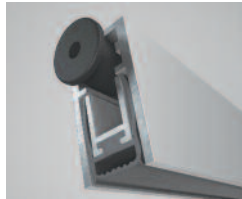
Acoustic Seals for Fire Doors

Acoustic Smoke and Fire Containment Systems



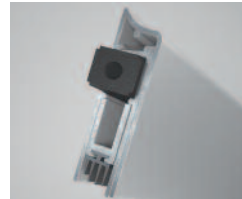
TOP 37

Available in sizes between 330mm and 1230mm in silver.



Acoustic Plus

Available in sizes between 330mm and 1230mm in silver.



Applique

Available in sizes between 330mm and 1230mm in silver.

The Noberne Sonic range brings together acoustic solutions that meet the requirements of Approved Document E (England & Wales) whilst achieving the demands of Approved Document B (England & Wales) which relates to the fire performance aspects of fire door assemblies. The Noberne Sonic acoustic systems have been tested to BS EN ISO140-3: 1995 and have achieved a decibel reduction index in excess of 35dB Rw.

When Noberne introduced the Sonic portfolio of products they were careful in only sourcing materials manufactured within the British Isles or European Union. This not only solved any issues involving quality or lead time, but meant we could deliver great value solutions at an affordable price point.



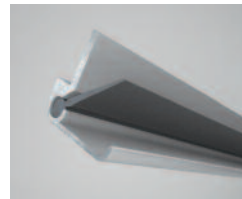
Corner Seal

Available in 2100mm length (2700mm on request subject to minimum order quantities), in black, white, brown and grey.



Side Flipper

Available in six colours with a black fin to suit 3mm/4mm gaps.



Astragal Seal

Available in 2100mm and 2500mm lengths in silver.

Acoustic Seals for Fire Doors

Acoustic Smoke and Fire Containment Systems



The Reddiplex range of combined acoustic, fire and smoke seals have been designed to provide an ideal solution to meet the requirements of Approved Document E for sound reduction and Approved Document B for fire safety.

Reddiplex acoustic seals give added smoke sealing performance and are ideal for new-build or upgrading of existing doorsets as a primary perimeter seal. They also can be used as a secondary sealing solution to enhance the acoustic rating in specialist acoustic doorsets.

For use in Graduated Density Chipboard (GDC) or specialist acoustic door cores (please speak to our Technical Department for more information), Reddiplex acoustic seals provide great flexible solutions for applications where sound reduction is considered.



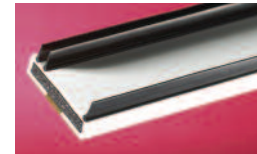
Integral

Available in widths from 435mm to 1135mm, can be cut back 99mm in silver.



Surface Mounted

Available in 915mm lengths in silver.



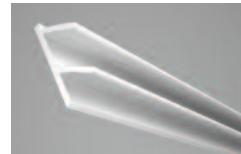
Triple Flipper

Available in three colours, brown, white and black with black fins to suit 3mm/4mm gaps, white and translucent fins are also available to order on request. (*Minimum quantities apply*).



Corner Seal

Available in 2100mm length (2700mm on request subject to minimum order quantities), in black, white, brown and grey.



Acoustic Double Flipper

Available in 2100mm lengths in brown, black or white.



Trident

Available in 2100mm lengths in brown, black or white.



Lorient Single Leaf / Single Swing

Performance Rating for product combination

32dB Rw

Head & Jambs: LP1504DS
plus LAS1212 (fig.1)

Threshold: LAS8001si with LAS4002

Back of Frame: 2 x LP2004

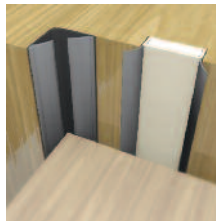
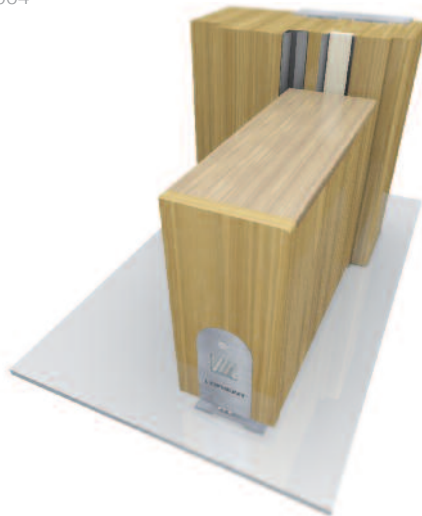


fig.1



Lorient Double Leaf / Single Swing

Performance Rating for product combination

35dB Rw

Head & Jambs: LP1504DS
plus LAS1212 (fig.1)

Threshold: 2 x LAS1011 with AAS4508

Meeting Stiles: 2 x LP1504DS (fig.2)

Back of Frame: 2 x LP2004

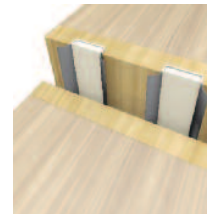
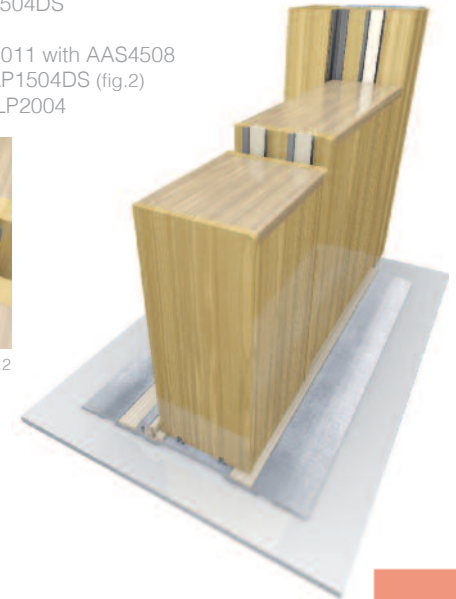


fig.2



For further details on these products, please view them here using this code.

Acoustic Solutions Overview

Acoustic Solutions Overview



Noberne Sonic Single Leaf / Single Swing

Performance Rating for product combination

35dB Rw

Head & Jambs: Side Flipper plus Corner Seal (fig.3)

Threshold: Sonic Top 37

Back of Frame: 2 x Fire Only (20mm x 4mm)

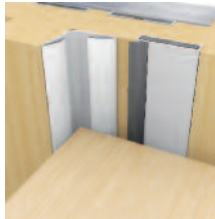
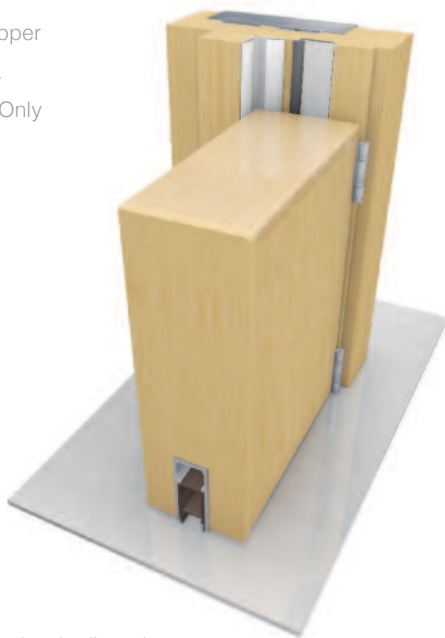


fig.3



Noberne Sonic Double Leaf / Single Swing

Performance Rating for product combination

35dB Rw

Head & Jambs: Side Flipper plus Corner Seal (fig.3)

Threshold: Sonic Top 37

Meeting Stiles: Sonic Astragal plus Twin Flipper plus 1 x Fire Only (15mm x 4mm) (fig.4)

Back of Frame: 2 x Fire Only (20mm x 4mm)



fig.4



For further details on these products, please view them here using this code.



Reddiplex Single Leaf / Single Swing

Performance Rating for product combination

32dB Rw

Head & Jambs: Side Flipper plus Acoustic Double Flipper (fig.5)

Threshold: Integral

Back of Frame: 2 x Fire Only (20mm x 4mm)



fig.5



Reddiplex Single Leaf / Single Swing

Special Acoustic Door Core

Performance Rating for product combination

42dB Rw

Head & Jambs: Triple Flipper plus Corner Seal

Threshold: 2 x Trident (fig.6)

Back of Frame: 2 x Fire Only (20mm x 4mm)



fig .6



For further details on these products, please view them here using this code.

Lorient, Noberne Sonic and Reddiplex - Acoustics

Acoustic Solutions Matrix

Acoustic Solutions Matrix

Solution #	dB Rw rating achieved	Door Core	Fire Rating	Configuration	Threshold Seal	Perimeter Seal	Meeting Stile Seals	Test Report Reference
1	32	GDC	FD30(S)	SL/SA	LAS8001si + LAS4002	LAS1212 + LP1504DS	n/a	130326 001
2	35	Laminated Timber	FD60(S)	DL/SA	LAS1011 (x2) + AAS4508	LAS1212 + LAS1504DS	LP1504DS (x2)	131024 001
3	35	GDC	FD30(S)	SL/SA	Sonic Top 37	Sonic Corner Seal + 15x4	n/a	C/09/5L/20855/RO5
4	35	GDC	FD30(S)	DL/SA	Sonic Top 37	Sonic Corner Seal + 15x4	Sonic Astragal + 15x4 Twin Flipper + Fire Only	C/09/5L/20855/RO1b
5	32	GDC	FD30(S)	SL/SA	Integral	Acoustic Twin + 15x4 Side Flipper	n/a	Chilt/Z12021
6	42	Specialist Acoustic	FD30(S)	SL/SA	Trident (x2)	Corner Seal + Triple Flipper	n/a	Chilt/Z12021



vents

Ventilation Systems

Air Transfer Grilles



The Lorient range of fire and smoke resistant dampers or air transfer grilles offer comprehensive solutions for fire compartment walls, partitions, floors, ceilings, ductwork and doors. With test evidence on their grilles from 30 minutes fire resistance up to 240 minutes, Lorient can provide a product to suit the variety of applications in the ventilation field.

The LVN20 and LVN25 systems are a non-vision style that allows a bi-directional air flow and complete visual privacy.

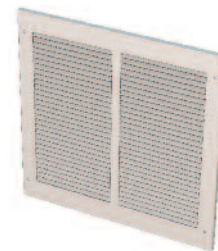
The LVV40 vision style grilles are used in conjunction with a louvre cover which are simple to install and offer resistance from fire for up to 1 hour.



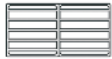
LVN 20 & LVN 25
Sizes: 100mm-600mm
Width and Height.



LVW 40 & LVC 40
Sizes: 100mm-600mm
Width and height and
up to 600mm diameter.

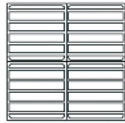


Louvre Cover Grilles
Sizes: to suit apertures
of 100mm-600mm Width
and Height.



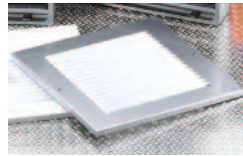
Rectangular Air Transfer Grilles

Available in
300mm (W) x 150mm (H),
225mm (W) x 112mm (H).



Square Air Transfer Grilles

Available in
300mm x 300mm,
225mm x 225mm,
150mm x 150mm.



Face Plates

Available to suit all
Pyroplex® Air Transfer
Grilles in silver or white.

Pyroplex® fire rated air transfer grilles are suitable for use in fire resisting doorsets and compartment walls for up to 60 minutes fire resistance. The grilles are of a modular robust construction made from zinc mild steel, using a water resistant graphite based intumescent. In normal use, the Pyroplex® system allows air to be circulated and moved throughout the building. During a fire the system is designed to close and provide a fire barrier to restrict the passage of hot gases.

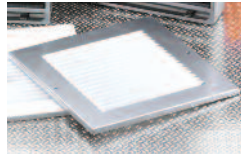
This system is to be installed in conjunction with a face fitting louvred cover plate.

Ventilation Systems

ThermaGrille



ThermaGrille is an intumescent air transfer grille consisting of two sheets of steel mesh coated with a graphite based intumescent material, all retained in a lightweight frame. ThermaGrille provides free air flow through the unit over approximately 50% of the face area. The intumescent coating activates at approximately 180°C and expands to fill the ventilation holes in the grille thus providing the required fire resistance. The twin plate construction of ThermaGrille provides fire insulation performance in addition to fire integrity.



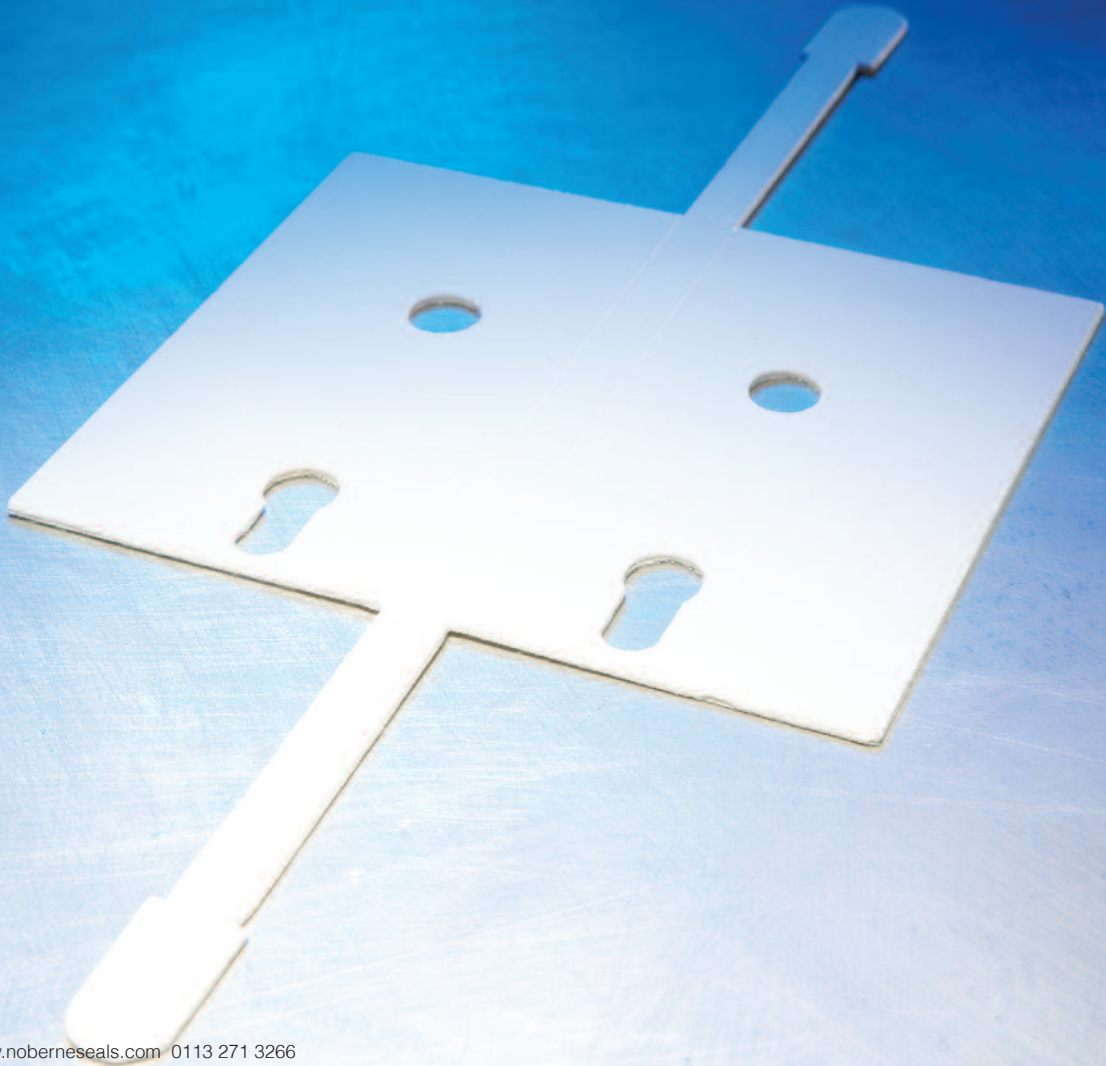
Face Plates

Sizes: to suit apertures of 100mm-600mm Width and Height.



ThermaGrille

Sizes: 100mm-600mm Width and Height.



ancillaries

Ancillaries for Fire Doors

Lock and Hinge protection



Fire rated doors often require additional protection for the hardware fitted, due to heat conduction through the metal elements of ironmongery, intumescent material may need to be applied to hinges, locks and concealed door closers. If the lock or latch of a fire resistant door is unprotected, it inevitably reduces the door's fire protection performance.

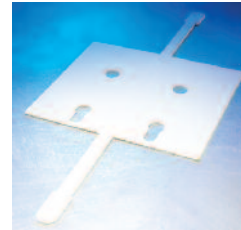
More most common product in use is Interdens or Mono-ammonium phosphate (MAP), which has a low expansion rate but offers excellent insulation properties that reduce the transference of heat.

Interdens is available in standard or bespoke format to suit the different ironmongery products required on fire resisting doorsets.

Please speak with our Technical Sales Team for more information 0113 271 3266.



Hinge pads
Interdens available in radius or square profiles.



Lock Kits
Available on request to suit your specific lock dimensions.



Interdens Sheets
Available in 297mm x 210mm in either 1mm or 2mm thicknesses.

Ancillaries for Fire Doors

Harrison Thompson, Intastop and Safehinge



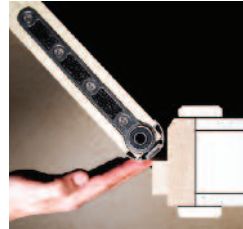
Harrison Thompson

Available for 44mm - 54mm doors, radius or square profiles in PVC.



Intastop

Available for 44mm - 54mm doors, radius or square profiles in PVC or aluminium.



Safehinge

Available for 44mm - 54mm doors in aluminium (integral or retro-fit).

Fire doors in areas of high use often suffer severe damage to the leading edge due to pedestrian contact or wheeled traffic. Incorporating edge protection to your doors will help to promote the lifespan of the door whilst reducing its maintenance needs. Door edge protection solutions are available in heavy duty impact resistant vinyl or high grade aluminium, designed to reduce the stresses on timber fire doors. Standard profiles suit 44mm and 54mm doors for both single and double action applications.

Safehinge ALU finger protection products are award winning safety systems that eliminate any opportunity for finger trappings. Ideally suited to schools and nurseries, Safehinge is also widely used in the Healthcare, Retail and Leisure sectors.

For more information on fire and acoustic ratings plus colour and size availability, please call our Technical Sales Team on 0113 271 3266.

Ancillaries for Fire Doors

Letterplates, Signage and Sealants



Letterplates

Fire doors that are used as entrances to flats, apartments and offices may require the need for a letterplate. Fitting a “normal” letterplate would negate the fire resisting properties of the door, however by fitting a fire and smoke resisting letterplate these characteristics are maintained and the door assembly is compliant.

Fire Signage

Approved Document B for England and Wales requires that all fire resisting doors should be marked with the appropriate fire safety (mandatory) notice complying with BS 5499:5: 2002. In addition to this HTM 58 (section 2.39) states that each fire resisting doorset must have an identification disc fitted.

Acrylic Sealant

Intumescent Acrylic Sealant is used in a variety of applications and is a great all-rounder. Generally used for sealing around the gaps between door frame and wall, or for bedding in ironmongery it can also be used as an effective acoustic barrier.

Speak to our Technical Sales Team for more advice 0113 271 3266.



Letterplates

Available in 10” or 12” in silver or gold anodised options.



Fire Signs

Please refer to our website for options www.noberneseals.com



Acrylic Sealant

Available in 310ml, 600ml foil packs or 10 ltr tubs in white.

Noberne Seals would like to thank our supply chain partners in the production of this brochure:

Hodgson Sealants
Intumescent Seals Ltd
© Lorient Polyproducts Ltd
Pyroplex®
Reddiplex®
Sealmaster Ltd



Noberne Seals Ltd are an Approved Supplier to the British Woodworking Federation's Fire Door Scheme - The leading authority on fire door safety.



The Noberne Group of Companies is quality assured under the BS EN ISO 9001: 2008 standard.

Certificate No. GB87/19



Noberne Seals Ltd

Lupton Street,
Hunslet, Leeds,
West Yorkshire
LS10 2QP

T. 0113 271 3266

F. 0113 277 2049

E. sales@noberneseals.com

For further information about Noberne Seals products please visit our website

www.noberneseals.com

www.twitter.com/noberne_seals

www.facebook.com/noberne.seals

www.linkedin.com/company/noberne-seals-limited

