We are manufacturers of passive fire stop products, draught and weather sealing systems for the construction industry.

*This brochure covers our complete range of products including:*


We offer a comprehensive range of intumescent passive fire stopping products for use in walls, floors, ceilings, doors, ducts and other fire rated compartmentation structures. Fire testing has been carried out by Certifire, Warrington Fire Research, Chiltern Fire and BRE Approval. We also have a large range of CE Marked and UL- EU Listed Products are available ex-stock in over 50 countries worldwide, with overnight AM delivery as standard in the UK and fast despatch by road, sea or air for worldwide destinations.

Our in-house design and test facility offers a fast downtime on new product innovations from concept to completion, we will be pleased to discuss your construction product needs. New products are added to our range all the time - to keep up to date, bookmark our website www.astroflame.com

The entire Astro Group has undergone an extensive quality and reliability programme to ISO 9001:2015 approved.

For the most up-to-date product information and specification details on the complete Astroflame Group range please visit our websites.

www.astroflame.com
www.astrodraft.com
Contents

> Door Protection
  Intumescent Fire Seals 05
  Retro Fit Intumescent Surface Mounted Fire Seal 08
  Intumescent Door Edge Guards 09
  Ironmongery Protection 10
  Intumescent Letterbox Liners 12
  Intumescent Telescopic Letterbox 30 min - ECO 13
  Telescopic Letterbox 30/60 min - CERTIFIRE 13
  Intumescent Telescopic Letterbox 30/60 min 14
  Fire Rated Door Viewer 15
  Fire Rated High Security Door Viewer 15
  Intumescent Fire Grille 16
  Air Transfer Face Plates 17
  Intumescent Glazing U-Channel 18
  Intumescent Glazing Tape 18
  Acoustic & Smoke Perimeter Seals 19
  Acoustic Rated Door Bottom Seal - SM 20
  Acoustic Rated Door Bottom Seals - R 21
  Raven Perimeter Smoke Seal 24
  Raven Door Bottom Smoke Seal 25
  Raven Threshold Smoke Seal 25

> Fire Door Hardware
  Fire Rated Lever and Pull Handles 26
  Fire Rated Locks and Latches 27
  Fire Rated Hinges 28
  Fire Rated Escutcheons 28
  Fire Door Signs 29
  Fire Rated Door Viewers 29
  Fire Rated Door Closers CE Marked 29

> Finger Protection
  Fingerkeeper Commercial Front 31
  Fingerkeeper Commercial Rear 32
  Finger Saver Elite PVC Front Guard 33
  Slim Rear PVC Finger Guard 33
  Finger Guard for Centre Pivot or Butt Hinged Doors 34
  Transparent Finger Guard For Doors 35
  Heavy Duty Hinge Guard - TPV 36
  Heavy Duty Hinge Guard - RPB2 37
  Finger Defender RP 38
  Finger Defender RPQR 39
  Finger Defender 40
  Finger Protecta 41
  Finger Defender - Class Door 42
  Finger Defender Washable Guard 43
  DigiSaver Aluminium Finger Guard 44
  Aluminium Finger Guard for Doors 45
  Anti-Finger Trapping Device For Rear of Door 46

> Safety Protection
  Wall Protection Strips 48
  Corner Guard Safety Strip 49
  Reflective Safety Padding Strip 50
  Window Restrictor 51
  Dorgard Fire Door Retainer 52

> Firestop Products
  Third Party Certification Information 54
  Intumescent CE Marked Pipe Collar 55
  PFP Pipe Closer CE Marked 56
  Intumescent Pipe Collars 57
  Intumescent 25m Roll CE Marked Pipe Wrap UL 58
  Intumescent CE Marked Pipe Wrap 59
  PFP Pipe Wraps CE Marked 60
  Intumescent Pipe Wraps 61
  Thermal Fire Pipe Sleeve CE Marked 62
  Fire Pillows X-series CE Marked 63
  Intumescent Fire Pillows 64
  Fire Stop Block 64
  Fire Rated Ceiling Air Valves 65
  DS Duct Sleeve CE Marked 65
  Astro Duct Sleeve + Low Profile CE Marked 66
  PFP Fire Rated Putty Pads & Cords CE Marked 67
  Fire & Acoustic Internal Socket Box Insert 68
  Intumescent Fire & Acoustic Socket Box Cover 68
  Ventilated Cavity Barriers 69
  Cavity Fire Barrier Roll 71
  Intumescent Expansion Joint Seals 71
  HS FM Compound CE Marked 72
  Fire Resistant Mortar 72
  PFP Mortar CE Marked 73
  PFP Board CE Marked 73
  PFP Ablative Sealant Coating CE Marked 74
  Fire Resistant Batt CE Marked 74
  Batt Coating Spray Grade CE Marked 75
  Penetration Sealant Coating CE Marked 75
  Fire Resistant Flexible Coating 76
  Intumescent Putty 76

> Lighting Protection
  Fire Rated Loft Cone 78
  Luminaire Cover 78
  Intumescent Acoustic Rated Downlighter Cover 79
  Fire Rated Luminaire Canopy 79

> Mastics & Foams
  PFP Fire Rated Mastic CE Marked 81
  Intumescent Acoustic Mastic CE Marked 81
  High Pressure Expansion Sealant CE Marked 81
  Low Smoke & Toxicity Intumescent Mastic Sealant 82
  Fire Rated Silicone Sealant 83
  Fire Rated Acoustic Foam 83

> Fire Proof Paints
  Intumescent Paint For Timber 85
  Intumescent Paint For Walls & Ceilings 85
  Flame Retardant Paint 85
  Intumescent Fire Varnish 86
  Intumescent Paint For Steel & Cast Iron 86
  High Build Primer 86

> Anti Graffiti Paints
  Anti-Graffiti Paint 87

> Draught Proofing
  Sash Window & Patio Door Seals 89
  Door & Glazing Seals 90
  Door Bottom Seals 91
  Schiegel AQUAMAC 92
  Schiegel Retro Fit Range 93

> Acoustic Seals & Disabled Access
  Raven Acoustic Door Bottom Seals - Automatic 94
  Raven Acoustic Door Bottom Seals 95
  Raven Door Frame or Perimeter Seals 97
  Raven Astragal/Meeting Stile Seals 98
  Raven Glass Door Seals 99
  Raven Threshold Plates 100
  Raven Brush Strip Seals 102
  Raven Magnetic Seals 103
  Raven Self Adhesive Seals 104
FIRE DOOR PROTECTION & FIRE DOOR HARDWARE

A fire door is a door with a fire-resistance rating used as part of a passive fire protection system to reduce the spread of fire and smoke between separate compartments of a structure and to allow more time for people to get to safety. Astroflame’s range of Fire Door Protection products and Door Hardware range are part of a building’s “passive fire protection system”, which are an essential requirement for public buildings, offices, factories and other types of businesses.

Since a breakout of fire is never predictable, the fire door, unlike any other door, must perform its prime purpose - to protect lives and offer protection to the remainder of the building and to other buildings. People who use or occupy any building have a right to expect that they will be safely protected should a fire break out.

There is also a requirement in certain domestic situations, depending on the country’s local regulations, for example in flats, other situations for example where a door leads into an integral garage, or in dwellings where there is a second floor “habitable” room, such as loft conversions or a ‘room in the roof’.

The simple purpose of Astroflame’s Fire Door Protection products and Door Hardware range is to protect lives and offer protection to the remainder of the building and to other buildings. Most of Astroflame’s Fire Door Protection products are designed to

• Keep any fire in the compartment in which it starts for a specified period of time
• Protect the occupants (and contents) of other compartments
• Provide a safe, protected route to allow the occupants to escape.
• The walls, ceilings, entrances and exits are therefore designed to resist the fire for a specified period of time.

Buildings such as schools, hospitals, offices blocks, etc are responsible for meeting the criteria of the RRO regulatory reform (fire safety) order 2005 (FSO) regulations which includes checking regularly the working condition of fire doors.

The products on the next few pages are for maintaining fire door integrity. Astroflame’s passive fire protection products, such as intumescent fire seals, telescopic letterboxes, fire grilles, glazing tape, door viewer, fire door hinges etc. prevent the integrity of a fire door being compromised.

All fire rated products have been tested by independent laboratories to certify that they meet the required BS / EN / CERTIFIRE performance standards where applicable.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
INTUMESCENT FIRE SEALS

> Product Description

Intumescent fire and smoke seals for fire door assemblies. An intumescent graphite based fireseal contained within a PVC sleeve for fitting into a rebate to either the leaves or the frame of a door. In the event of a fire the seal expands (intumesces) to many times its original volume and seals the gap around the door to provide a safe and effective barrier against the passage of fire, smoke and hot gases.

Astroflame Intumescent Fireseals are available with or without a cold smoke seal in the form of a nylon pile. Astroflame smoke seals provide a permanent barrier to smoke - particularly important as smoke fumes travel faster and further than the fire itself.

All Astro fire and smoke seals are supplied with a self-adhesive backing tape as standard to facilitate quick and easy fitting. Tested for 30 minutes with 10mm and 15mm to BS 476 part 22 & 31. Tested for 60 minutes with 20mm 25mm and 30mm to BS 476 part 22 & 31. Smoke seals tested to EN1634-3 Tested to 100,000 open/close cycles.

Fire and smoke seals are available in various colours to suit your requirements or blend with decor. To seal the bottom of the door we suggest using our Surface Mounted Acoustic Door Bottom Seals or Rebate Fit Acoustic Door Bottom Seals.

> Quick Overview

Certifire Approval Fire Seals & Smoke Seals
Passed at BS476 Part 22 & 31.1
Smoke Seals to EN1634-3
30 or 60 minute rated types
Available in various colours
Seals are sold per 2.1m lengths
All seals are supplied with self-adhesive backing tape
Alternative seals: Black Neoprene Rubber seals in single or twin blade

> Packing details for all types

Seals are sold per 2.1m lengths. Also available in a Single Doorsets 2 x 2.1m + 1m or Double Doorsets 3 x 2.1m lengths. For easier shipping requirements also available in a Single Doorset 5 x 1050mm or Double Doorset 8 x 1050mm.

<table>
<thead>
<tr>
<th>Seals</th>
<th>Length</th>
<th>Packs per pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm</td>
<td>2100mm</td>
<td>50 lengths</td>
</tr>
<tr>
<td>15mm</td>
<td>2100mm</td>
<td>25 lengths</td>
</tr>
<tr>
<td>20mm</td>
<td>2100mm</td>
<td>25 lengths</td>
</tr>
<tr>
<td>25mm</td>
<td>2100mm</td>
<td>25 lengths</td>
</tr>
</tbody>
</table>

Colours: White (W), Black (BLK), Brown (B), Grey (G) or Red (R). Other colours & sizes P.O.A.

Please Note:
Seals of 10 and 15mm are suitable to be used with CERTIFIRE approved FD30 SL, SAL, or unlatched timber doors of max leaf size 2040 x 926mm and a minimum thickness of 42mm. Each fire door will have its own test evidence from the door manufacturer. It is the responsibility of the purchaser to ensure that the seals are fully compliant with the relevant test evidence.

> How to order this product

Online: [www.astroflame.com](http://www.astroflame.com) phone: 01329 844 500 or email sales@astroflame.com
INTUMESCENT STRIP - FIRE & SMOKE

**Trade Name**: ASTRO STRIP FS - FIRE & SMOKE

**Product Description**
Intumescent fire and smoke seals for a safe and effective barrier against fire, cold smoke and hot gases. Brush colours available: Grey, Black or White.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>TYPE</th>
<th>FIRE RATING</th>
<th>PROFILE SIZE</th>
<th>LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF1004 FS</td>
<td>Fire Only</td>
<td>30 mins</td>
<td>10mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF1504 FS</td>
<td>Fire Only</td>
<td>30 mins</td>
<td>15mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2004 FS</td>
<td>Fire Only</td>
<td>60 mins</td>
<td>20mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2504 FS</td>
<td>Fire Only</td>
<td>60 mins</td>
<td>25mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
</tbody>
</table>

**How to order this product**

**PLEASE QUOTE**

<table>
<thead>
<tr>
<th>QUANTITY / TRADE NAME / PRODUCT REF / PVC COLOUR / LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR EXAMPLE</td>
</tr>
<tr>
<td>50NO / ASTROSTRIPFS / AF1004FS / BROWN / 2.1M</td>
</tr>
</tbody>
</table>

INTUMESCENT STRIP - FIRE ONLY

**Trade Name**: ASTRO STRIP FO - FIRE ONLY

**Product Description**
Intumescent seals for use where no smoke sealing is required.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>TYPE</th>
<th>FIRE RATING</th>
<th>PROFILE SIZE</th>
<th>LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF1004 FO</td>
<td>Fire Only</td>
<td>30 mins</td>
<td>10mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF1504 FO</td>
<td>Fire Only</td>
<td>30 mins</td>
<td>15mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2004 FO</td>
<td>Fire Only</td>
<td>60 mins</td>
<td>20mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2504 FO</td>
<td>Fire Only</td>
<td>60 mins</td>
<td>25mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
</tbody>
</table>

**How to order this product**

**PLEASE QUOTE**

<table>
<thead>
<tr>
<th>QUANTITY / TRADE NAME / PRODUCT REF / PVC COLOUR / LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR EXAMPLE</td>
</tr>
<tr>
<td>50NO / ASTROSTRIPFO / AF1004FO / BROWN / 2.1M</td>
</tr>
</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)    Phone: 01329 844 500  or email sales@astroflame.com
**Trade Name** ASTRO STRIP SB FIRE & SMOKE WITH SINGLE BLADE SEAL

**INTUMESCENT SEALS FIRE & SMOKE SINGLE BLADE SEAL**

**Product Description**
Intumescent fire seal with a black Neoprene single blade smoke seal.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>FIRE RATING</th>
<th>PROFILE SIZE</th>
<th>LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF1004 SB</td>
<td>30 mins</td>
<td>10mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF1504 SB</td>
<td>30 mins</td>
<td>15mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2004 SB</td>
<td>60 mins</td>
<td>20mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
</tbody>
</table>

**How to order this product**

**PLEASE QUOTE**
QUANTITY/TRADE NAME/PRODUCT REF/COLOUR/LENGTH

**FOR EXAMPLE**
25NO / ASTROSTRIP SB/AF1004 SB / BROWN / 2.1M

---

**Trade Name** ASTRO STRIP TB FIRE & SMOKE WITH TWIN BLADE SEAL

**INTUMESCENT SEALS FIRE & SMOKE TWIN BLADE SEAL**

**Product Description**
Intumescent fire seal with a black Neoprene twin blade smoke seal.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>FIRE RATING</th>
<th>PROFILE SIZE</th>
<th>LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF1004 TB</td>
<td>30 mins</td>
<td>10mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF1504 TB</td>
<td>30 mins</td>
<td>15mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
<tr>
<td>AF2004 TB</td>
<td>60 mins</td>
<td>20mm x 4mm</td>
<td>2.1m/1.05m</td>
</tr>
</tbody>
</table>

**How to order this product**

**PLEASE QUOTE**
QUANTITY/TRADE NAME/PRODUCT REF/COLOUR/LENGTH

**FOR EXAMPLE**
75NO / ASTROSTRIP TB/AF1004 TB / CREAM / 2.1M

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
RETRO FIT INTUMESCENT SURFACE MOUNTED FIRE SEAL

> Trade Name  ASTRO STRIP RETRO FIT

> Product Description

The Astro Strip Retro Fit is a Retro fit surface mounted fire seal and approved for FD30 single action doors/single leaf doors. Tested to both BS EN1634-1 and BS EN 1634-3 Standards.

The Astro Strip Retro Fit is a rapid high-pressure multi-directional expansion seal which is safe to handle, contains no fibrous material or have any harmful chemicals. They are unaffected by moisture, humidity, atmospheric pollution and other common industrial, household chemical substances.

Astro Strip Retro Fit surface mounted fire seals come with a self-adhesive backing for ease of application and each product has Identification number which ensures full traceability.

> Availability

Lengths:
Our standard length is 1050mm (x 5) and available in three colours, other specific lengths available P.O.A.

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>COLOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFFSWRF</td>
<td>Retro Fit Intumescent Surface Mounted Fire Seal</td>
<td>21mm x 1.2mm x 1050mm (x 5)</td>
<td>White</td>
</tr>
<tr>
<td>AFFSBLKRF</td>
<td>Retro Fit Intumescent Surface Mounted Fire Seal</td>
<td>21mm x 1.2mm x 1050mm (x 5)</td>
<td>Black</td>
</tr>
<tr>
<td>AFFSBRF</td>
<td>Retro Fit Intumescent Surface Mounted Fire Seal</td>
<td>21mm x 1.2mm x 1050mm (x 5)</td>
<td>Brown</td>
</tr>
</tbody>
</table>

> Quick Overview

Approved for single action, single leaf doors
Suitable for FD30 applications
New build and retrofit applications
Rapid high-pressure multi-directional expansion
Mineral based: safe to handle, containing no fibrous material or harmful chemicals
Uneffected by moisture, humidity, atmospheric pollution and other common industrial and household chemical substances
Supplied with a self-adhesive backing for ease of application
Identification on each product ensures full traceability

> How to order this product

PLEASE QUOTE
QUANTITY/TRADE NAME/COLOUR/PRODUCT REF

FOR EXAMPLE
25NO / ASTRO STRIP RETRO FIT / WHITE / AFFSWRF

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
INTUMESCENT DOOR EDGE GUARDS

> Product Description

Doors in hospitals suffer more than most from wear and tear resulting from high traffic levels and impact damage yet any door in a commercial or industrial building is likely to suffer from this loss of integrity.

With constant trolley and wheelchair traffic it is the leading edge of the door that suffers most from ‘porter damage’ which not only results in general damage to the door but also possible loss of the fire integrity of the door.

Astroflame have overcome this problem with their range of Fire rated Door Edge Guards which are available in various width sizes and lengths.

Door Edge Guards contain intumescent & smoke seals and have been fully fire tested up to 1/2 or 1 hours and eliminate the need for repetitive maintenance.

Widely specified throughout the UK healthcare market. Converts leaf stile doors to swing stiles Impact tested to 200kg at 3.5 m.p.h and 50kg at 7m.p.h.

Ral colours to order P.O.A.

> Availability

Lengths:
Standard length 2100mm - Longer lengths to order up to 2500mm

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>COLOUR</th>
<th>RATING</th>
<th>SIZE</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounded Door Edge Guard</td>
<td>SAA</td>
<td>30 min</td>
<td>44mm</td>
<td>AFDEGR / 44SAA</td>
</tr>
<tr>
<td>Rounded Door Edge Guard</td>
<td>SAA</td>
<td>30 min</td>
<td>46mm</td>
<td>AFDEGR / 46SAA</td>
</tr>
<tr>
<td>Rounded Door Edge Guard</td>
<td>SAA</td>
<td>60 min</td>
<td>55mm</td>
<td>AFDEGR / 55SAA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>COLOUR</th>
<th>RATING</th>
<th>SIZE</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Door Edge Guard</td>
<td>SAA</td>
<td>30 min</td>
<td>44mm</td>
<td>AFDEGF / 44SAA</td>
</tr>
<tr>
<td>Flat Door Edge Guard</td>
<td>SAA</td>
<td>30 min</td>
<td>46mm</td>
<td>AFDEGF / 46SAA</td>
</tr>
<tr>
<td>Flat Door Edge Guard</td>
<td>SAA</td>
<td>60 min</td>
<td>55mm</td>
<td>AFDEGF / 55SAA</td>
</tr>
</tbody>
</table>

> Quick Overview

Satin Anodised Aluminium or PVC Colours to match décor

Fire tested to BS 476 part: 20 & 22 for 30-60 minutes and EN 1634 to 30 mins

Eliminate the need for repetitive maintenance

Impact protection for both single & double fire doors

Suits new & existing fire doors

New build or refurbishment

Ideal for use in Healthcare, Retail, Schools and Commercial/Public areas

> How to order this product

PLEASE QUOTE
QUANTITY/TRADE NAME/SIZE/COLOUR/PRODUCT REF

FOR EXAMPLE
10 /ASTRO ALUMINIUM ROUNDED DOOR EDGE GUARD/44MM/SAA/AFDEGR44SAA

Online: www.astroflame.com   phone: 01329 844 500   or email sales@astroflame.com
IRONMONGERY PROTECTION

> Product Description
All ironmongery installed on a fire door must be fitted without compromising the integrity of the complete fire door assembly. This is of particular importance where ironmongery is rebated into the doorset such as hinges, locks, latches, and concealed door closers.

Astroflame Flexiseal is an ultra thin and flexible high performance intumescent sheet. At 0.8mm Astroflame Flexiseal offers high levels of expansion and insulation preventing heat transfer on ironmongery rebated into timber doorsets.

Astroflame Flexiseal is suitable for both 30 and 60 minute applications.

> Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinges</td>
<td></td>
</tr>
<tr>
<td>Astro flexi hinge pad 31 x 102 pack of 6</td>
<td>AFFLEXIHSPK</td>
</tr>
<tr>
<td>Astro flexi hinge pad 31 x 102 (300 pieces per box)</td>
<td>AFFLEXIHS300</td>
</tr>
<tr>
<td>Astro flexi hinge pad radius 31 x 102 pack of 6</td>
<td>AFFLEXIHSPRK</td>
</tr>
<tr>
<td>Astro flexi hinge pad radius 31 x 102 (300 pieces per box)</td>
<td>AFFLEXIHSR300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hinges - Self Adhesive</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro flexi hinge pad 31 x 102 pack of 6 s/a</td>
<td>AFFLEXIHSPK/SA</td>
</tr>
<tr>
<td>Astro flexi hinge pad 31 x 102 (300 pieces per box)</td>
<td>AFFLEXIHS300/SA</td>
</tr>
<tr>
<td>Astro flexi hinge pad radius 31 x 102 pack of 6 s/a</td>
<td>AFFLEXIHSPRK/SA</td>
</tr>
<tr>
<td>Astro flexi hinge pad radius 31 x 102 (300 pieces per box)</td>
<td>AFFLEXIHSR300/SA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Locks &amp; Latches</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro universal bs sashlock kit to suit 64/76mm backset c/w strike plate - self adhesive</td>
<td>AFFLEXISLK</td>
</tr>
<tr>
<td>Astro universal deadlock kit to suit 64/76mm backset c/w strike plate - self adhesive</td>
<td>AFFLEXIDLK</td>
</tr>
<tr>
<td>Astro universal bs din lock kit - self adhesive</td>
<td>AFFLEXIDINLK</td>
</tr>
<tr>
<td>Astro fb1/fb2 deadlock kit c/w strike plate - self adhesive</td>
<td>AFFLEXIFBDLK</td>
</tr>
<tr>
<td>Astro universal tubular latch kit to suit 64/76mm backset c/w strike plate - self adhesive</td>
<td>AFFLEXITBLK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flush Bolt</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro flush bolt kit - self adhesive 150/200mm to suit both square &amp; radius ends</td>
<td>AFFLEXIFBK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sheet Material</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro intumescent sheet 200x200mm</td>
<td>AFFLEXISH200</td>
</tr>
<tr>
<td>Astro intumescent sheet 300x200mm</td>
<td>AFFLEXISH300</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Sheet Material - Self Adhesive</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro intumescent sheet 200x200mm - Self adhesive</td>
<td>AFFLEXISH200/SA</td>
</tr>
<tr>
<td>Astro intumescent sheet 300x200mm - Self adhesive</td>
<td>AFFLEXISH300/SA</td>
</tr>
</tbody>
</table>

> Quick Overview
Unaffected by moisture, humidity & atmospheric pollution
Only 0.8mm thick - so minimal rebating required (2mm Available upon request)
very flexible and clean to work with - will bend without cracking
Available with or without self adhesive backing
BS 476 part 22 ; 1987 - 30 and 60 minute rating
Fire Rating 30/60 minutes

> How to order this product

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO FLEXISEAL / AFFLEXIHS/PK</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
IRONMONGERY PROTECTION

> Trade Name  INTERDENS® INTUMESCENT IRONMONGERY PROTECTION

> Product Description

All ironmongery installed on a fire door must be fitted without compromising the integrity of the complete fire door assembly. This is of particular importance where ironmongery is rebated into the doorset such as hinges, locks, latches and concealed door closers.

Interdens® is a phosphate based fire protection that has gained a first-class reputation through the outstanding expanding capabilities and the excellent insulating properties of the resultant foam. Foam expansion occurs without pressure. Interdens® has been tested extensively to protect rebated ironmongery in fire doors for over 30 years, this includes testing to both BS476 & EN1634 to 30 & 60 minute fire rating. Typically 1mm material is used for 30 minute applications and 2mm material for 60 minutes however always refer to the manufacturers test evidence or Certifire certification for reference.

Upgrade your fire door weak points with Interdens® intumescent ironmongery product range: Hinge Pads, Universal BS Sashlock Kit, Universal Deadlock Kit, Universal BS Din Lock Kit, FBI/FB2 Deadlock Kit, Universal Tubular Latch Kit and Flush Bolt Kit.

> Availability

Interdens® Hinge Pad

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
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<tbody>
<tr>
<td>AFIDENHSPK</td>
<td>Interdens® Hinge Pad Square Corners</td>
<td>102x31mm Pack of 6</td>
</tr>
<tr>
<td>AFIDENHS/300</td>
<td>Interdens® Hinge Pad Square Corners</td>
<td>102x31mm Pack of 300</td>
</tr>
<tr>
<td>AFIDENHSRPK</td>
<td>Interdens® Hinge Pad Radius Corners</td>
<td>102x31mm Pack of 300 S/A</td>
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<tr>
<td>AFIDENHSR/300</td>
<td>Interdens® Hinge Pad Radius Corners</td>
<td>Red</td>
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Interdens® Hinge Pad Self Adhesive

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<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>AFIDENHSPK/SA</td>
<td>Interdens® Hinge Pad Square Corners</td>
<td>102x31mm Pack of 6 S/A</td>
</tr>
<tr>
<td>AFIDENHS300/SA</td>
<td>Interdens® Hinge Pad Square Corners</td>
<td>102x31mm Pack of 300 S/A</td>
</tr>
<tr>
<td>AFIDENHSRPK/SA</td>
<td>Interdens® Hinge Pad Radius Corners</td>
<td>102x31mm Pack of 6 S/A</td>
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<tr>
<td>AFIDENHSR300/SA</td>
<td>Interdens® Hinge Pad Radius Corners</td>
<td>102x31mm Pack of 300 S/A</td>
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</tbody>
</table>

Interdens® Locks & Latch Kits

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
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<tbody>
<tr>
<td>AFIDENSLK</td>
<td>Interdens® Universal BS Sashlock Kit</td>
<td>To Suit 64/76mm Backset C/W Strike Plate - S/A</td>
</tr>
<tr>
<td>AFIDENDLK</td>
<td>Interdens® Universal Deadlock Kit</td>
<td>To Suit 64/76mm Backset C/W Strike Plate - S/A</td>
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<tr>
<td>AFIDENDINLK</td>
<td>Interdens® Universal Din Lock Kit</td>
<td>85x165mm - S/A</td>
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<tr>
<td>AFIDENFBOLK</td>
<td>Interdens® FBI/FB2 Deadlock Kit C/W Strike Plate</td>
<td>103x80mm - S/A</td>
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<tr>
<td>AFIDENTBLK</td>
<td>Interdens® Universal Tubular Latch Kit</td>
<td>To Suit 64/76mm Backset C/W Strike Plate - S/A</td>
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</table>

Interdens® Flush Bolt Kit

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFIDENFBK</td>
<td>Interdens® Flush Bolt Kit</td>
<td>150/200mm To Suit Both Square &amp; Radius Ends - S/A</td>
</tr>
</tbody>
</table>

> How to order this product

PLEASE QUOTE
QUANTITY/TRADE NAME/CODE/SIZES

FOR EXAMPLE
25NO / INTERDENS® HINGE PAD / AFIDENHSPK/1 / 102X31MM PK6

Online: www.astroflame.com  phone: 01329 844 500 or email sales@astroflame.com
IRONMONGERY PROTECTION

**Trade Name** ASTRO PROTECTA

**Product Description**
Tested to BS476: Part 22 - 1987 for up to 60 minute fire rating. Upgrade weak points. Maintenance Free.

A graphite based intumescent material which can be easily fitted behind hinges, door closers and strike plates etc.

**Availability**

ASTRO PROTECTA PACK (to suit single Fire Door)
- 3No 36 x 300 x 2mm - Hinge Strip
- 1No 500 x 500 x 0.5mm

Lock/Door Closer Protection - AFPTEC

ASTRO HINGE PACK - 6No 36 x 300 x 2mm - Hinge Strip - AFHS36

ASTRO LOCK/DOOR CLOSER PACK - 1No 500 x 500 x 0.5mm - Lock Sheet - AFLS

Product Options 0.3mm Self-Adhesive backing also available on Lock sheets only please contact us for more details

**Quick Overview**

Tested to BS476: 22 - 1987 60 min
Upgrade weak points

**Trade Name** ASTROLINER

INTUMESCENT LETTERBOX LINERS

**Product Description**
Consists of a high performance, self adhesive backed, PVC laminated intumescent material which has been designed to line the aperture of letterboxes in solid fire resistant doors.
On exposure to a fire the liner will rapidly expand (intumesce) to seal the aperture and stop the spread of fire, smoke and hot gases through the door. The liner has been independently tested in accordance with BS476: Part 22: 1987 and the 50mm can provide in excess of 1 hour fire resistance.

Supplied in packs containing sufficient material to suit any size aperture up to 250x50mm and can be used in both 1/2 and 1 hour fire door assemblies.

Liner Colours - Red. Letterplate colours - Brass or Satin Aluminium effect. Up to 60 minutes protection.

**Availability**

**Quick Overview**

Tested to BS476: Part 22: 1987
For use in 30 and 60 min. fire doors
Choice of Coloured Letterplates
Self adhesive backed
Easy to install
Maintenance free
Suits new or retro-fit

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>LINER COLOUR</th>
<th>LETTERPLATE COLOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFLBLR</td>
<td>Letter Box Liner 30/60</td>
<td>Red</td>
<td>N/A</td>
</tr>
<tr>
<td>AFLBSSR</td>
<td>Letter Box System 30/60</td>
<td>Red</td>
<td>Silver</td>
</tr>
<tr>
<td>AFLBSBR</td>
<td>Letter Box System 30/60</td>
<td>Red</td>
<td>Brass</td>
</tr>
</tbody>
</table>

**How to order this product**

**PLEASE QUOTE**

QUANTITY/TRADE NAME/CODE/COLOURS

FOR EXAMPLE

12NO / ASTROLINER / AFLBLBLK / BLACK

Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
INTUMESCENT FIRE RATED TELESCOPIC LETTERBOX SYSTEM

**Product Description**

The Astroflame telescopic letterbox system range is specifically designed to increase the safety, comfort and security of occupants against fire and is particularly suited to multiple occupancy residential buildings. The Astroflame telescopic Letterbox is a stylish, ABS framed, telescopic letterbox with metal flaps fitted with a high performance intumescent liner around the telescopic sleeve section. The letterbox flaps open to 180° and the adjustable telescopic sleeve can be set to suit 40mm - 80mm door thickness. Acoustic and thermal performance features include brush pile draught excluders, integral sound dampening bumpers and a fully sealed backplate.

Available in 10" Standard (272mm x 70mm) and 12" Commercial (306mm x 70mm) sizes. Cut out required is 241mm x 57mm for standard size letterbox and 274mm x 57mm for commercial size letterbox. Adjustable to suit door thickness from 40mm - 80mm. Both 10" and 12" sizes have a black ABS frame. Except 5S which have silver frames.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>COLOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFTLBFS/30SA</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Satin Anodised Aluminium</td>
</tr>
<tr>
<td>AFTLBFS/30GA</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Chrome Plated</td>
</tr>
<tr>
<td>AFTLBFS/30SS</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>AFTLBFS/30PB</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>AFTLBFS/30PA</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Silver (CC)</td>
</tr>
<tr>
<td>AFTLBFS/30GA</td>
<td>30 Min Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Gold (CB)</td>
</tr>
<tr>
<td>AFTLBFS/30SS</td>
<td>30 Min Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Satin Anodised Aluminium</td>
</tr>
<tr>
<td>AFTLBFS/30PC</td>
<td>30 Min Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Chrome Plated</td>
</tr>
<tr>
<td>AFTLBFS/30PB</td>
<td>30 Min Fire / Smoke</td>
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<tr>
<td>AFTLBFS/30PA</td>
<td>30 Min Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>AFTLBFS/30GA</td>
<td>30 Min Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Polished Silver (CC)</td>
</tr>
</tbody>
</table>

**Quick Overview**

30 minute fire rated letterboxes suitable for FD30/FD30S fire doors
Telescopic fitting - adjustable to fit doors 40mm-80mm thickness
Wide range of letter plate finishes
10" Standard or 12" Commercial sizes
High performance intumescent liner
Tested to BS 476 part 22: 1987, 30 minute rated
Tested to BS 476 Part 31/1: 1983
Acoustic tested achieving Rw32dB
Tested to BS EN 13724 Clause 6.6.5
Tested to BS EN 1634-3: 2004
Smoke tested in accordance with BS EN 1634-3: 2004

> Trade Name  ASTRO TELESCOPIC LETTER BOX FS (FIRE/SMOKE)

INTUMESCENT FIRE RATED TELESCOPIC LETTERBOX SYSTEM

**Product Description**

The Astro eco telescopic letterbox system range is specifically designed to increase the safety and security of occupants against fire and is particularly suited to multiple occupancy residential buildings. The Astro eco telescopic Letterbox is a stylish, ABS framed, telescopic letterbox with metal flaps fitted with a high performance intumescent liner around the telescopic sleeve section. The letterbox flaps open to 180° and the adjustable telescopic sleeve can be set to suit 40mm - 80mm door thickness. Acoustic and thermal performance features include brush pile draught excluders, integral sound dampening bumpers and a fully sealed backplate.

Available in 10" Standard (272mm x 70mm) and 12" Commercial (306mm x 70mm) sizes. Cut out required is 241mm x 57mm for standard size letterbox and 274mm x 57mm for commercial size letterbox. Adjustable to suit door thickness from 40mm - 80mm. Both 10" and 12" sizes have a black ABS frame. Except 5S which have silver frames.

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<tr>
<td>AFTLBFX/30SAA</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Satin Anodised Aluminium</td>
</tr>
<tr>
<td>AFTLBFX/30PC</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Chrome Plated</td>
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<td>AFTLBFX/30SS</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>AFTLBFX/30PB</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>AFTLBFX/30PA</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Silver (CC)</td>
</tr>
<tr>
<td>AFTLBFX/30GA</td>
<td>30 Minute Fire / Smoke</td>
<td>272 x 70mm</td>
<td>Polished Gold (CB)</td>
</tr>
<tr>
<td>AFTLBFX/30SS</td>
<td>30 Minute Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Satin Anodised Aluminium</td>
</tr>
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<td>AFTLBFX/30PC</td>
<td>30 Minute Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Chrome Plated</td>
</tr>
<tr>
<td>AFTLBFX/30PB</td>
<td>30 Minute Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>AFTLBFX/30PA</td>
<td>30 Minute Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>AFTLBFX/30GA</td>
<td>30 Minute Fire / Smoke</td>
<td>306 x 70mm</td>
<td>Polished Silver (CC)</td>
</tr>
</tbody>
</table>

**Quick Overview**

Tested to BS 476 PART 22 for 30 or 60 minutes fire rating
Supplied with internal/external flap and aperture liner
Fire & Smoke in one system
Certifire Approval
Acoustic version also available
**Trade Name**  ASTRO TELESCOPIC LETTERBOX FXC 30/60

**INTUMESCENT FIRE & SMOKE RATED TELESCOPIC LETTERBOXES**

**Product Description**

A robust commercial metal framed telescopic letterbox with metal flaps and a high performance intumescent liner. In the event of a fire the intumescent liner expands to seal the letterbox aperture and retains the fire integrity of the door. Fire and smoke rated for 30 or 60 minutes.

Fitted with brush pile draught excluders and sound dampening bumpers with a fully sealed backplate. Available in Satin Anodised Aluminium, Polished Gold and Polished Silver finishes.

Typical application: fitting to fire doors in multiple occupancy residential buildings.

Cut out required on this size is 275mm x 55mm. Brushes are designed to go to the outside for maximum protection and draught proofing.

The overall size is 306mm x 70mm and comes as a 30/60 minute rated intumescent telescopic letterbox system with matching metal frame and metal letter plate flaps available in three finishes:

- Satin Anodised Aluminium
- Polished Gold Anodised
- Polished Silver

An adjustable telescopic sleeve can be set from 40mm to 80mm door thickness. Letterbox flaps open to 115°.

Smoke Testing was conducted to BS EN 1634-3: 2004 smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 3: Smoke control test for door and shutter assemblies.

Suits 30 or 60 minute Fire Doors

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFTLBFXC30/60SAAMF</td>
<td>30/60 Minute Fire / Smoke Letterbox 306 x 70mm</td>
<td>Satin Anodised Aluminium (SAA)</td>
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<tr>
<td>AFTLBFXC30/60GAMF</td>
<td>30/60 Minute Fire / Smoke Letterbox 306 x 70mm</td>
<td>Polished Gold</td>
</tr>
<tr>
<td>AFTLBFXC30/60PAMF</td>
<td>30/60 Minute Fire / Smoke Letterbox 306 x 70mm</td>
<td>Polished Silver</td>
</tr>
</tbody>
</table>

**Quick Overview**

12" Width 30 / 60 min Fire Rated Letterbox

Adjustable for door thickness from 40-80mm

Choice of 3 letter plate finishes

Fire tested to BS 476 part 22

Smoke Tested to BS 476 part 31.1

BS 2911 Compliant

Smoke tested in accordance with BS EN 1634-3: 2004

**How to order this product**

PLEASE QUOTE

QUANTITY / TRADE NAME / PRODUCT REF / RATING / FINISH

FOR EXAMPLE

12NO / ASTRO TELESCOPIC LETTER BOX FXC60 / AFTLBFXC/60SAAMF / 60 MINS / SAA

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name** ASTRO FR DOOR VIEWER

**FIRE RATED DOOR VIEWER**

**Product Description**
The Astroflame Fire Rated Door Viewer is suitable for standard size thicknesses of 35mm - 55mm and is fire rated for 60 minutes. Offering 120 degree view and made from solid brass with 3 Pyrex glass lenses with a 14mm barrel. Conforms to DHF TS002 : 2009 Specification.

**Quick Overview**
Fire Rated Door Viewer
- Tested to BS476 part 22 : 1987 60 mins
- Tested to EN1634-1 30 min
- Solid brass with Pyrex lenses
- Suits 35mm - 55mm thickness doors
- 120 degree viewing angle
- Brass or Chrome finish
- Contract range also available P.O.A

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFDV14B</td>
<td>Astro FR Door Viewer</td>
<td>Brass</td>
</tr>
<tr>
<td>AFDV14C</td>
<td>Astro FR Door Viewer</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

**How to order this product**

**FOR EXAMPLE**
6NO / AFDV14B / ASTRO FR DOOR VIEWER / BRASS

---

**Trade Name** ASTRO HS DOOR VIEWER

**FIRE RATED, HIGH SECURITY, DOOR VIEWER**

**Product Description**
A door viewer with extra security features and designed for a wider range of users than standard door viewers. The special prism optics built into this secure door viewer allow the viewer to be stood well back from the door and provide other special features:

Whoever is on the other side of the door can not see inside / view movement High and Low viewing angles supported. The person viewing can be up to 2 metres back from the door and still see who is outside over a viewing angle of up to 120°. High or Low viewing - the viewer can be standing or seated. The lower viewing option is well suited to wheelchair users or children.

**Quick Overview**
High Security Door Viewer
- Fire Rated for 60 minutes - Timber Doors
- Fire Rated for 30 minutes - Composite Doors
- Suits 35mm - 62mm thickness doors
- Person viewing can be seated or standing
- Prism system permits viewer to be up to 2 metres away from the door
- 120° external viewing area
- Antique Gold or Silver Finish in plastic

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFDV38G</td>
<td>Astro HS Door Viewer</td>
<td>Gold</td>
</tr>
<tr>
<td>AFDV38S</td>
<td>Astro HS Door Viewer</td>
<td>Silver</td>
</tr>
</tbody>
</table>

**How to order this product**

**FOR EXAMPLE**
2NO / AFDV38G / ASTRO HS DOOR VIEWER / GOLD

Online: **www.astroflame.com**  phone: **01329 844 500**  or email **sales@astroflame.com**
INTUMESCENT FIRE GRILLES

> Trade Name ASTROGRILLE

> Product Description

A durable ventilation grille which is easily mounted in solid timber fire doors & solid block walls, and can provide in excess of 1/2 or 1 hour fire protection. Astroflame Fire Grille comprises of a moisture resistant intumescent core within a galvanized steel frame with vermin proof 6mm steel mesh fitted to both faces. Suitable for fitting up to 1,000mm (1m) from floor level. The design allows a free area of 80% approximately. See our Free Area table below for guidance.

All square and rectangular grilles are available to suit 30 minute or 60 minute fire rated applications. Maximum single grille size is 600 x 600 mm or equivalent area. Circular grilles are available in 100, 125, 150, 200, 225, 250 and 300mm diameter sizes and are 60 minute fire rated.

Calculations made using 80%(approx) free area. Please note that this table does not allow for the effects of fitting any of the Astroflame Steel Louvered Face Plates, or any other type of aesthetically pleasing cover over the fire grille.

> Quick Overview

Fire Grilles tested to BS 476: Part 22 1987 and EN 1634: Part 2
Comprehensive range of sizes includes circular types
For use in solid timber fire doors & solid block walls
Suitable for mounting up to 1,000mm (1m) from floor level
In excess of 30 or 60 minutes fire rating
Vermin proof wire mesh 80% free area

> Free Area Table

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<th>200</th>
<th>225</th>
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<td>320cm²</td>
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<td>400cm²</td>
<td>440cm²</td>
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Top row is width dimension. First column is Height dimension. Sizes in mm

> How to order this product

PLEASE QUOTE
QUANTITY / TRADE NAME / PRODUCT REF / SIZE

FOR EXAMPLE
2NO / ASTROGRILLE / AFFG 300200 / 300X200MM

Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
> Trade Name  ASTRO PLATES

**AIR TRANSFER FACE PLATES**

> Product Description

Astroflame Face Plate Series presents a Mild Steel Louvered Grilles designed to satisfy all types of air transfer application in offices, shops, schools, hospitals and many other commercial projects. Manufactured using modern press machinery and production techniques the Astroflame Face Plate series is robustly fabricated from 20swg mild steel and comprises of horizontal louvres set on an 8.5mm pitch with a 30% downward deflection.

Suitable for internal, surface mounting on doors and walls. The steel construction ensures that the unit is satisfactory not only for Astroflame Intumescent Fire Grilles but can also be used in standard air transfer applications, utilised with the wide flange border providing adequate clearance for fixing to the surrounding structure. Slimline and unobtrusive the unit offers a free area around 66% for economical selection and reverse of list sizes. Standard finish is Satin Aluminium. White or RAL colours available on request.

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> Quick Overview

Steel construction  
Standard finish Satin Aluminium  
White finish or RAL colours available on request  
For internal use  
Complete range of sizes  
Door or wall mounting

> How to order this product

**PLEASE QUOTE**  
AFP (WIDTH X HEIGHT) / COLOUR

**FOR EXAMPLE**  
AFP150150/SA : AFP500400/WHT

Online: www.astroflame.com  
phone: 01329 844 500  
or email sales@astroflame.com

**NEW**  
**DOOR HARDWARE ESSENTIALS**

Fire rated ironmongery Lever Handles, Pull Handles, Locks & Latches, Escutcheons - 60 min rated, Fire Door Signs, Door Hinges, Door Viewers and Door Closers. Go to P26
> **Trade Name** ASTRO U CHANNEL

**INTUMESCENT GLAZING CHANNEL**

> **Product Description**

U Channel for 6mm glass. Cost effective, easily installed dry glazing gasket for use in fire doors using clear or wired glass. Elastic composition of the channel grips the glass. 15mm tall 10.5mm wide and supplied in 100 Metre lengths.

Colour - Black Only
Meets appropriate BS and Building Regulation standards.

> **Quick Overview**

30 minute rated
BS 476 Parts 20 & 22 1987
For use in glass up to 600mm x 600mm
Intumescent material
Impervious to water and moisture
Easy and clean application
Elasticated material grips the glass

> **How to order this product**

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> **Trade Name** ASTRO TAPE

**INTUMESCENT GLAZING TAPE**

> **Product Description**

A flexible self adhesive polymer based extruded intumescent material suitable for sealing wired or fire resistant glazing into wooden fire doors and fire resistant partitions. On exposure to heat from a fire AstoFlame Intumescent tape swells, thus prohibiting smoke and flame from passing through the aperture between wood and glass, providing resistance in excess of 1/2 hour. Supplied in roll form it offers the user a high performance, non load bearing tape for accurate placement, with no waste and requiring no specialist applications.

> **Quick Overview**

Tested to BS476: Part 22: 1987
Available in Off-White or Black
½ hour Fire Rating
Easy & Clean Application
A pliable re-shaped strip that bonds well to Wood & Glass

> **Availability**

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</table>

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
ACOUSTIC & SMOKE PERIMETER SEALS

> Trade Name  ASTRO ASP SEAL

> Product Description

A co-extruded PVC, acoustic and smoke perimeter self adhesive seal. Located in the protected corners of rebated frames of single or double broad butt hinged doors and windows. The Min / Max Gap is 3mm to 5.5mm. Acoustically and smoke tested on proprietary fire doors. Noise Reduction Index up to Rw39dB*.

Suitable for new and retrofit applications.

Applications
• Pedestrian doorsets, single and double leaf configurations
• Surface mounted substrates: timber and steel materials
• Latched and unlatched doors
• New build or retro-fit applications

Product Features
• Rigid legs with a flexible hinged corner makes for easy fitting
• Excellent compression and deflection performance
• Low closing forces due to low co-efficient material used

The Astro Acoustic & Smoke Perimeter seal is manufactured from a rigid and flexible flame retardant PVC, complete with an aggressive self adhesive backing tape on both sides of the rigid carrier.

For full acoustic and smoke sealing the Astro Acoustic & Smoke Perimeter seal should be used in conjunction with a rebated, semi morticed or surface mounted door bottom seal and where required acoustic & perhaps disabled access threshold seal.

Length: 2100mm

> How to order this product

PLEASE QUOTE QTY / TRADE NAME / TYPE / COLOUR / PRODUCT REF

FOR EXAMPLE
10NO / ASTRO ASP SEAL / 2100MM / WHITE / AFASP/WHT

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com

> Trade Name  ASTRO ASP/TF SEAL

ACOUSTIC & SMOKE PERIMETER SEALS

> Product Description

Similar to the ASP Seal the ASPTF Twin Fin Seal is a compact design ideal for hygiene and clean rooms and removes the need to fit separate smoke seals.

Engineered to size to avoid overlapping door ironmongery with excellent compression and deflection performance and allows reduced door closing force due to a low co-efficient material used in integral fins. Acoustically and smoke tested on proprietary fire doors. Noise Reduction Index up to Rw35dB*.

Suitable for new and retrofit applications.

The seals are quick and easy to apply.

The Astro Acoustic & Smoke Perimeter TF seal is manufactured from a rigid and flexible flame retardant PVC, complete with an aggressive self adhesive backing tape. For full acoustic and smoke sealing the Astro Acoustic & Smoke Perimeter seal should be used in conjunction with a rebated, semi morticed or surface mounted door bottom seal and where required acoustic & perhaps disabled access threshold seal.

Length: 2100mm

Colours: Black, Brown, White or Light Oak

> How to order this product

PLEASE QUOTE QTY / TRADE NAME / TYPE / COLOUR / PRODUCT REF

FOR EXAMPLE
10NO / ASTRO ASPTF SEAL / 2100MM / WHITE / AFASPTF/WHT
> **Trade Name**  ASTRO ASDB/SM SEAL

**ACOUSTIC RATED DOOR BOTTOM SEAL - SURFACE MOUNTED**

> **Product Description**

Astro ASDB/SM Seal is a automatic door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres.

An acoustically designed seal for surface mounted applications. It is operated automatically by pressure against the door jamb on its plunger and retracts automatically when the door is opened. Can be fitted on the internal side of the door using the frame to activate the plunger or externally using the bumper provided.

Tested for durability 200,000 cycles completed without failure for fire rated smoke doors. 14mm maximum drop, seal drops on plunger side first. Suitable for all types of swing doors. Noise Reduction Index: Rw up to Rw 37dB*

Smoke Testing was conducted to BS EN 1634-3: 2004 smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 3: Smoke control test for door and shutter assemblies.

Min/Max Gap: 3mm - 14mm.
Seal Lengths: 330mm, 430mm, 530mm, 630mm, 730mm, 830mm, 930mm, 1030mm, 1130mm, 1230mm.
Maximum trimming: 20mm - 330mm
120mm - 430mm
150mm - 530mm to 1230mm
Finish: Silver Anodised finish.

> **Quick Overview**

Surface Mounted door bottom seal - drop down type
Suitable for wooden or metal door assemblies
Aluminium body with rubber coextruded seal and carrier
Sound reduction of up to Rw37dB*
Suitable for new and retrofit applications
Screw fixing (screws supplied)
Silver Anodised finish
Tested to 200,000 cycles
Smoke tested in accordance with BS EN 1634-3: 2004

> **Availability**

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<td>AFASDBSM/830</td>
<td>Astro ASDB/SM Seal - Surface Mounted</td>
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<td>Astro ASDB/SM Seal - Surface Mounted</td>
<td>Silver Anodised</td>
<td>1230mm</td>
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*The acoustic ratings quoted will vary depending on the door density and any additional threshold & perimeter seals used in conjunction with this product, contact us for confirmation before specifying.

> **How to order this product**

**PLEASE QUOTE**

QTY / TRADE NAME / SIZE / PRODUCT REF

**FOR EXAMPLE**

10NO / ASTRO ASDBSM SEAL / 1030 / AFASDBSM/1030

Online: [www.astroflame.com](http://www.astroflame.com)    phone: 01329 844 500    or email sales@astroflame.com
Trade Name  ASTRO ASDB SEAL

ACOUSTIC RATED DOOR BOTTOM SEALS - REBATED

Product Description
Astro ASDB Seal - Rebate Fit Version
An automatic door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. An acoustically designed seal for rebated applications. Mounted into a 13mm x 28mm groove that has been morticed into the bottom edge of the door.

It is operated automatically by pressure against the door jamb on its plunger and seals when the door closes and retracts automatically when the door is opened. Tested for durability 200,000 cycles completed without failure for fire rated doors. Suitable for all types of wooden doors. 14mm maximum drop, Graduated Scissor action (seal drops on hinge side before lock side).

Smoke Testing was conducted to BS EN 1634-3: 2004 smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies.

Noise Reduction Index up to Rw 42dB*. Min/Max Gap: 3mm - 13mm.

Seal Lengths: 330mm, 430mm, 530mm, 630mm, 730mm, 830mm, 930mm, 1030mm & 1130mm.

Maximum trimming:
50mm - 330mm
125mm - 430mm
150mm - 530mm to 1130mm.

Aluminium carrier. Seal easily removed to prevent damage during installation.

Quick Overview

Door bottom seals - drop down type
Acoustically tested on proprietary fire doors
Aluminium body with self extinguishing PVC rubber coextruded seal and carrier
Sound reduction up to Rw 42dB*
Suitable for new & retrofit applications
Rebated fitting - comes with prefitted screws
Aluminium finish
Tested to 200,000 cycles
Smoke tested in accordance with BS EN 1634-3: 2004

Quick Overview

Smoke Testing was conducted to BS EN 1634-3: 2004 smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies.

Noise Reduction Index up to Rw 42dB*. Min/Max Gap: 3mm - 13mm.

Seal Lengths: 330mm, 430mm, 530mm, 630mm, 730mm, 830mm, 930mm, 1030mm & 1130mm.

Maximum trimming:
50mm - 330mm
125mm - 430mm
150mm - 530mm to 1130mm.

Aluminium carrier. Seal easily removed to prevent damage during installation.

Availability

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* The acoustic ratings quoted will vary depending on the door density and any additional threshold & perimeter seals used in conjunction with this product, contact us for confirmation before specifying.

How to order this product

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<td>10NO / ASTRO ASDB SEAL - REBATE FIT VERSION / 1030 / AFASDB/1030</td>
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</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
> **Trade Name**  ASTRO ASDBX DB PLUS SEAL

> **Product Description**

An automatic door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. An acoustically designed seal for rebated applications. Mounted into a 15mm x 28mm groove that has been morticed into the bottom edge of the door. It is operated automatically by pressure against the door jamb on its plunger and seals when the door closes and retracts automatically when the door is opened.

Tested for durability 200,000 cycles completed without failure for fire rated smoke doors. 14mm maximum drop, Graduated Scissor action (seal drops on hinge side before lock side). Seal easily removed to prevent damage during installation.

Smoke Testing was conducted to BS EN 1634-3: 2004 smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies.

Noise Reduction Index up to Rw51dB. Min/Max Gap: 3mm - 14mm.

Seal Lengths: 330mm, 430mm, 530mm, 630mm, 730mm, 830mm, 930mm, 1030mm, 1130mm, 1230mm. Maximum trimming: 50mm - 330mm 135mm - 430mm 150mm - 530mm to 1230mm. Aluminium carrier.

> **Quick Overview**

Door bottom seals - drop down type
Acoustically tested on proprietary fire doors
Aluminium body with self extinguishing PVC rubber coextruded seal and carrier
Sound reduction up to Rw 51dB*
Suitable for new & retrofit applications
Rebated fitting - comes with prefitted screws
Aluminium finish
Tested to 200,000 cycles
Smoke tested in accordance with BS EN 1634-3: 2004

> **Availability**

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> **How to order this product**

**PLEASE QUOTE**

QTY / TRADE NAME / SIZE / PRODUCT REF

**FOR EXAMPLE**

10NO / ASTRO ASDBX DB PLUS SEAL / 1030 / AFASDBX/1030

Online: [www.astroflame.com](http://www.astroflame.com)  phone: **01329 844 500** or email **sales@astroflame.com**
> Trade Name  ASTRO ASDBX/FBEXT ASDBX/FBBOLT

> Product Description

A unique solution to fitting rebated flush bolts in conjunction with drop down seals. The DB Seal Extension works as an extender with the Astro DB Seal Plus drop down seal. 10mm maximum drop and the seal is manually lowered on the handle side.

Also available are 150mm Stainless Steel Flush Bolts (AFASDBX/FBBOLT) with radiused ends designed to work with the DB Seal Extension. Suitable for double leaf timber doors. Acoustically and smoke tested on proprietary fire doors. Noise Reduction Index Rw 35dB.

Dimensions and Schematic Diagram.

> Availability

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFASDBX/FBEXT</td>
<td>Astro DB Seal Plus Extension</td>
</tr>
<tr>
<td>AFASDBX/FBBOLT</td>
<td>Astro DB Seal Plus Flush Bolt</td>
</tr>
</tbody>
</table>

> Quick Overview

Fitting rebated flush bolts in conjunction with drop down seals
Suitable for double leaf timber doors
Acoustically tested on proprietary fire doors
Sound reduction up to Rw 35dB*
Tested to 200,000 cycles
Stainless Steel Flush Bolts with radiused ends also available

> How to order this product

PLEASE QUOTE
QTY / TRADE NAME / PRODUCT REF
FOR EXAMPLE
10NO / ASTRO DB SEAL PLUS EXTENSION / AFASDBX/FBEXT

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
Raven Door Sealing Systems are available to combat draughts, dust, rain, noise, heat loss, heat gain, fire, smoke and stray light. The following is a selection of the Raven Smoke Rated Seals available from the comprehensive range shown on www.astrodraft.com. All seals are only available in an anodised satin clear finish.

L = Light Duty seals include those typically used in residential applications or light traffic areas. M = Medium Duty seals are used in commercial applications such as office spaces, shops, commercial accommodation or medium traffic areas. H = Heavy Duty seals are designed for areas with a high level of use such as public hospitals, airports, factories, shopping centres or areas with a large through flow of pedestrian and wheeled traffic.

**DOOR BOTTOM SMOKE SEAL RP8SI**

> **Product Description**

A hot smoke automatic door bottom seal, with an extruded silicon sealing component, that conforms to the 200 degrees Celsius requirement of BCA c3.4. RP8Si is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. Mounted into a 15mm x 34mm groove that has been morticed into the bottom edge of the door, it is operated automatically by pressure against the door jamb on its adjusting screw.

RP8Si has been tested for durability 1,000,000 cycles completed without failure. Location: Single and double, butt hinged doors. Min/Max Gap: 3mm/13mm. Seal Lengths: 380mm, 600mm, 820mm, 915mm, 1070mm, 1220mm (max). Seal cut back to exact size. Standard Finish: Anodised Satin Clear or Bronze (poa).

> **How to order this product**

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
DOOR BOTTOM SMOKE SEAL RP70SI

> Product Description

The RP70SI automatic seal is the fully morticed version of the RP38SI door seal. It is a heavy duty door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. The seal is operated automatically by pressure against the door jamb on the adjusting screw. It seals when the door closes and retracts automatically when door is opened. It is self levelling. When using RP70si door bottom seal, the door must be a minimum of 45mm thick and of suitable construction for morticing this seal. It is reversible for left or right handed operation. Note: For double doors, plain meeting stiles are required. RP70Si has been tested for durability – 1,000,000 cycles completed without failure.

DOOR BOTTOM SMOKE SEAL RP99SI

> Product Description

RP99Si is a heavy duty automatic door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. An acoustically designed seal for face mounted, semi morticed or fully morticed applications. It is operated automatically by pressure against the door jamb on its adjustment block. RP99Si seals when the door closes and retracts automatically when the door is opened. RP99Si has been tested for durability, 1,000,000 cycles completed without failure. RP99Si conforms to the 200 degrees Celsius requirement of BCA c3.4 spec, for fire rated & medium smoke doors. All fitting options have been tested and approved on proprietary fire doors to 120 minutes AS1530.4 and AS/ NZS2905.1.

DOOR BOTTOM SMOKE SEAL RP129SI

> Product Description

A silicon rubber seal in a 15 micron anodised Aluminium carrier. Seal carrier is pre-drilled with fixing slots at regular intervals and matching screws are supplied. The seal can be checked out or drilled to accommodate the pivot, thereby providing a continuous seal. Durability Tested to over 1,000,000 operating cycles without failure. Full installation instructions are included with the product. Location: Double butt hinged and centre pivot double acting doors. Min/Max Gap 14mm to 18mm. Seal Sizes Available in 1250 mm lengths Standard Finish: Aluminium anodised 15 microns. Satin Clear (Silver). Seal Material: Silicon Rubber (SE) (Light grey) Fixing Method: Zinc plated, cross recess S.T. screws of the appropriate size and colour are supplied. Used in Conjunction: Raven threshold plates. Raven RP115 Threshold Plate recommended.

HEAVY DUTY THRESHOLD PLATE RP19

> Product Description

A heavy duty threshold plate with ribbed profile and integral sill gaskets. Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. The RP19 has been designed to accommodate a concealed screw fix through the door jambs. Location: Door sills. Sizes: 1000mm stock lengths. Standard Finish: Anodised Satin Aluminium.

LOW PROFILE THRESHOLD PLATE RP82

> Product Description

A low profile threshold plate used in conjunction with door bottom seals to prevent noise, rain, draught and smoke infiltration.


> How to order this product

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name**  FIRE RATED LEVERS AND PULL HANDLES

**FIRE RATED LEVER AND PULL HANDLES**

**Product Description**
A range of fire rated door handles and backplates ideal for fire doors and high traffic areas. Also they are suitable for domestic and commercial use. Ergonomic and comfortable to use with a low maintenance finish.

All our fire rated door handles and backplates are sold in pairs where applicable. They come complete with fixings and with a 10 year mechanical guarantee.

Available in various finishes:
- SAA - Satin Anodised Aluminium
- SSS - Satin Stainless Steel
- CP - Chrome Plated

**Quick Overview**
Fire rated lever and pull handles suitable for use on FD30/60 fire doors
Lever handles available on round rose as well as concealed, Europrofile and Bathroom back plates
Pull handles come complete with bolt through fixings and finger plate
BS476 Part 22 fire tested
BS EN 1634-1 fire tested
All round bar furniture is DDA Compliant and ideal for fire doors and high traffic areas
Complete with fixings and suitable for domestic and commercial use
Comes with a 10 year mechanical guarantee

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FIRE TESTING</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
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<tbody>
<tr>
<td>2 No. Round Bar Lever Handle on Round Rose</td>
<td>19 mm</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>SAA</td>
<td>AFFDX0001</td>
</tr>
<tr>
<td>2 No. Round Bar Lever Handle on Round Rose</td>
<td>19 mm</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>SSS</td>
<td>AFFDX0002</td>
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<tr>
<td>2 No. ZEN Lever Handle on Round Rose</td>
<td>N/A</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>CP</td>
<td>AFFDX0003</td>
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<tr>
<td>2 No. Round Bar Lever Handle on Backplate</td>
<td>19 mm</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>SAA</td>
<td>AFFDX0004</td>
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<tr>
<td>2 No. Round Bar Lever Handle on Backplate</td>
<td>19 mm</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>SSS</td>
<td>AFFDX0005</td>
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<td>2 No. ZEN Lever Handle on Backplate</td>
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<td>AFFDX0006</td>
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<tr>
<td>2 No. Round Bar Lever Handle on Euro Profile Backplate</td>
<td>19 mm</td>
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<td>AFFDX0007</td>
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<td>2 No. Round Bar Lever Handle on Euro Profile Backplate</td>
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<td>2 No. ZEN Lever Handle on Euro Profile Backplate</td>
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<td>BS476 Part 22 BS EN 1634-1</td>
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<tr>
<td>2 No. ZEN Lever Handle on Bathroom Backplate c/w Thumbturn &amp; release</td>
<td>N/A</td>
<td>BS476 Part 22 BS EN 1634-1</td>
<td>CP</td>
<td>AFFDX0010</td>
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<tr>
<td>19mm Dia Pull Handle Bolt Through c/w 305mm Finger Plate</td>
<td>229 mm</td>
<td>BS476 Part 22</td>
<td>SAA</td>
<td>AFFDX0101</td>
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<tr>
<td>19mm Dia Pull Handle Bolt Through c/w 305mm Finger Plate</td>
<td>229 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0102</td>
</tr>
</tbody>
</table>

**How to order this product**

PLEASE QUOTE
QTY / TRADE NAME / PRODUCT REF / COLOUR

FOR EXAMPLE
10NO / ZEN LEVER HANDLE ON ROUND ROSE / AFFDX0003 / CP

Online: www.astroflame.com    phone: 01329 844 500    or email sales@astroflame.com
FIRE RATED LOCKS AND LATCHES

> Product Description

A range of fire rated locks and latches that come in a variety of styles and sizes. Ideal for high security interior and general purpose doors. They also are suitable for domestic and commercial use. Intumescent protection when required is included in the pack. For more information please see the table below about each fire rated lock and latch product. All our fire rated locks and latches come complete with fixings and with a 10 year mechanical guarantee.

Available in various finishes:
SN - Satin Nickel Plated.
SSS - Satin Stainless Steel.
NP - Nickel Plated.

> Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FIRE TESTING</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euro Profile Cylinder c/w</td>
<td>70 mm</td>
<td>BS476 Part 22</td>
<td>SN</td>
<td>AFFDX0201</td>
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<tr>
<td>Thumb Turn</td>
<td></td>
<td>BS EN 1634-1</td>
<td></td>
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<tr>
<td>BS Sashlock Euro Profile</td>
<td>76 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0202</td>
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<tr>
<td>BS Deadlock Euro Profile</td>
<td>76 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0203</td>
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<tr>
<td>Din Euro Profile Sashlock</td>
<td>55 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0204</td>
</tr>
<tr>
<td>Mortice Bathroom Lock</td>
<td>76 mm</td>
<td>BS476 Part 22</td>
<td>NP</td>
<td>AFFDX0205</td>
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<tr>
<td>(for AFFDX0010)</td>
<td></td>
<td>BS EN 1634-1</td>
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<tr>
<td>Heavy Duty Tubular Mortice</td>
<td>76 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0206</td>
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<tr>
<td>Latch</td>
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<tr>
<td>Heavy Duty Tubular Mortice</td>
<td>64 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0207</td>
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<tr>
<td>Latch</td>
<td></td>
<td>BS EN 1634-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

> Quick Overview

fire rated locks and latches that come in a variety of styles and sizes to meet your requirements and are CE marked
Size range from 55 mm to 76 mm
BS476 Part 22 fire tested
BS EN 1634-1 fire tested
Suitable for use on a fire door and ideal for high security interior and general purpose doors
Complete with fixings and suitable for domestic and commercial use
Comes with a 10 year mechanical guarantee

FIRE DOOR HARDWARE

Packaged and ready to be sold!

AVAILABLE AT LOW TRADE PRICES AND IN STOCK FOR NEXT DAY DELIVERY

Contact us now for a price

> How to order this product

PLEASE QUOTE
QTY / TRADE NAME / PRODUCT REF / COLOUR

FOR EXAMPLE
10NO / BS SASHLOCK EURO PROFILE / AFFDX0202 / SS

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FIRE RATED DOOR HINGES

> **Product Description**

A range of fire rated hinges that come in a variety of styles and sizes. Severe Duty for use on fire doors in high traffic areas. All our fire rated hinges include Intumescent hinge pads. The fire rated hinges range is available from 76 x 51 x 2 mm to 102 x 76 x 3 mm.

Available in various finishes:
- SSS - Satin Stainless Steel
- PSS (Chrome) - Polished Stainless Steel
- PBS (Brass) - Brass
- EB - Electro Brass

> **Quick Overview**

CE marked fire door hinges available in a range of finishes in both grade 7 and 13. Suitable for doors weighing from 40 to 120kg.

BS476 Part 22 fire tested
BS EN 1634-1 fire tested
Performance tested to EN 1935
Intumescent hinge pads included

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FIRE TESTING</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 No. Fire Rated Grade 13 Ball Bearing Hinges</td>
<td>102 x 76 x 3 mm</td>
<td>BS476 Part 22, BS EN 1634-1</td>
<td>SSS</td>
<td>AFFDX0501</td>
</tr>
<tr>
<td>3 No. Fire Rated Grade 13 Ball Bearing Hinges</td>
<td>102 x 76 x 3 mm</td>
<td>BS476 Part 22, BS EN 1634-1</td>
<td>PSS (Chrome)</td>
<td>AFFDX0502</td>
</tr>
<tr>
<td>3 No. Fire Rated Grade 13 Ball Bearing Hinges</td>
<td>102 x 76 x 3 mm</td>
<td>BS476 Part 22, BS EN 1634-1</td>
<td>PBS (Brass)</td>
<td>AFFDX0503</td>
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<tr>
<td>3 No. Fire Rated Grade 13 Ball Bearing Hinges</td>
<td>76 x 51 x 2 mm</td>
<td>BS476 Part 22, BS EN 1634-1</td>
<td>SSS</td>
<td>AFFDX0504</td>
</tr>
<tr>
<td>3 No. Fire Rated Grade 7 Ball Bearing Hinges</td>
<td>50 x 8 mm</td>
<td>BS476 Part 22, BS EN 1634-1</td>
<td>CP</td>
<td>AFFDX0503</td>
</tr>
</tbody>
</table>

> **Availability**

> **How to order this product**

FOR EXAMPLE
10NO / FIRE RATED GRADE 13 BALL HINGES / AFFDX0501 / SSS

> **Trade Name** FIRE RATED ESCUTCHEONS

> **Product Description**

All our fire rated Escutcheons are based on a slim profile design, with concealed fixings and are ideal for fire doors.

> **Quick Overview**

BS476 Part 22 fire tested
Suitable for use on fire doors and have concealed fixings
Complete with fixings

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FIRE TESTING</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 No. Euro Profile Escutcheon</td>
<td>50 x 8 mm</td>
<td>BS476 Part 22</td>
<td>SSS</td>
<td>AFFDX0301</td>
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<tr>
<td>2 No. Euro Profile Escutcheon</td>
<td>50 x 10 mm</td>
<td>BS476 Part 22</td>
<td>SAA</td>
<td>AFFDX0302</td>
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<tr>
<td>2 No. Zen Euro Profile Escutcheon</td>
<td>50 x 8 mm</td>
<td>BS476 Part 22</td>
<td>CP</td>
<td>AFFDX0303</td>
</tr>
</tbody>
</table>

> **Availability**

> **How to order this product**

FOR EXAMPLE
10NO / 2 NO. EURO PROFILE ESCUTCHEON / AFFDX0301 / SSS

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
FIRE DOOR SIGNS FOR FIRE DOORS

Product Description
Astroflame can offer you a range of fire door signs at a great price which are suitable for internal and external usage.

Quick Overview
For use on Fire doors
Suitable for internal/external use and pre drilled for easy fixing
Complete with fixings

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x Keep Shut Signs - Circular</td>
<td>75 mm dia</td>
<td>SAA</td>
<td>AFFDX0401</td>
</tr>
<tr>
<td>2 x Keep Locked Signs - Circular</td>
<td>75 mm dia</td>
<td>SAA</td>
<td>AFFDX0402</td>
</tr>
</tbody>
</table>

How to order this product
FOR EXAMPLE
10NO / KEEP SHUT SIGNS - CIRCULAR / AFFDX0401 / SAA

Trade Name FIRE RATED DOOR VIEWER

Product Description
A range of Fire rated door viewers that come in a variety of styles. With 180° vision range, 35-54mm telescopic and includes Intumescent protection.

Quick Overview
BS476 Part 22 & BS EN 1634-1 fire tested
35-54mm telescopic
Intumescent protection included

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>FINISH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Viewer with shutter</td>
<td>14 mm</td>
<td>Satin Chrome</td>
<td>AFFDX0601</td>
</tr>
<tr>
<td>Door Viewer with shutter</td>
<td>14 mm</td>
<td>Chrome</td>
<td>AFFDX0602</td>
</tr>
<tr>
<td>Door Viewer with shutter</td>
<td>14 mm</td>
<td>Brass</td>
<td>AFFDX0603</td>
</tr>
</tbody>
</table>

How to order this product
FOR EXAMPLE
10NO / DOOR VIEWER / AFFDX0601 / SATIN CHROME

Trade Name FIRE RATED DOOR CLOSERS

Product Description
A range of fire rated door closers suitable for doors up to 80kg and come with a 10 Year mechanical guarantee.

Quick Overview
BS476 Part 22 & BS EN 1634-1 fire tested
Up to 180° maximum opening
Suitable for doors weighing up to 80kg
CE Marked

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
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<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium duty door closer c/w back check &amp; loose cover. Suitable for doors up to 60kg.</td>
<td>adj size 2 - 4</td>
<td>Silver</td>
<td>AFFDX0701</td>
</tr>
<tr>
<td>Contract door closer. Suitable for doors up to 80kg.</td>
<td>fixed size 3</td>
<td>Silver</td>
<td>AFFDX0702</td>
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</table>

How to order this product
FOR EXAMPLE
10NO / MEDIUM DUTY DOOR CLOSER / AFFDX0701 / SILVER

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FINGER PROTECTION FOR DOORS

Astroflame supply finger guards in a wide range of styles, colours and materials. To order, and subject to volumes, we can supply infection control versions or provide RAL colour matching of some guard models.

For lower risk and lower traffic doors we have budget priced finger guards through to heavier duty models and top-of-the-range products combining durability with designer style for use in prestigious and busy areas.

We have a selection of finger guards designed for automated doors - including a frameless glass door finger guard and a washable, ruggedised one for sterile environments also suitable for external use.

If you require the ultimate in robust design and materials we offer two different all-alloy construction finger protectors.

For general industrial, commercial and (some) security gate applications two popular guards are the Astro FingerKeeper Industrial TPV range and the FingerKeeper Industrial - RP62 range.

We also stock rear hinge guards - to cover the smaller gap at the rear of the door - in either neutral finishes or, for many models, colour matched to a corresponding front finger guard.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
FINGERKEEPER COMMERCIAL FRONT

Product Description

The Astro FingerKeeper Commercial device is a guard that prevents door finger trapping accidents. By totally covering the gap that is created on the hinge side of a door, in the open position, it prevents finger trapping injuries. Ideal for use in Schools, Day Care Centres, Nurseries, hospitals or any internal doors that create risk to the Public. The device is designed to create the safest working environment and avoid potentially costly and disruptive injury claims. The device is fully recyclable at end of life.

The Astro FingerKeeper Commercial device can be fitted to most types of doors including wood, metal and uPVC. The standard device is 1960mm long with a 2100mm length also available. A wide version with additional panel is available for doors which open up to 180°. The Astro FingerKeeper Commercial device is a low maintenance – wipe clean finish device. The device is extremely simple to install and has a long-life expectancy. With its screw fix design, it can be easily removed and refitted if any remedial works are needing to be completed.

Availability (Front)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
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<td>Astro FingerKeeper Commercial Front</td>
<td>1960mm</td>
<td>White</td>
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<td>Brown</td>
<td>AFFKBR</td>
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<tr>
<td>Astro FingerKeeper Commercial Front</td>
<td>1960mm</td>
<td>Beech</td>
<td>AFFKBEE</td>
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<td>1960mm</td>
<td>Beige</td>
<td>AFFKBEI</td>
</tr>
<tr>
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<td>1960mm</td>
<td>Black</td>
<td>AFFKBLK</td>
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<td>Brown</td>
<td>AFFKBRX</td>
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How to order this product

Please Quote

<table>
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<th>QUANTITY / TRADE NAME / PRODUCT REF / COLOUR</th>
<th>FOR EXAMPLE</th>
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<tbody>
<tr>
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</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com) phone: [01329 844 500](tel:01329+844+500) or email [sales@astroflame.com](mailto:sales@astroflame.com)
FINGERKEEPER COMMERCIAL REAR

Product Description

Astro FingerKeeper Rearguard prevents finger trapping accidents by totally covering the gap that is created on the rear hinge side of a door when it is in the open position. The Astro FingerKeeper Rearguard device can be fitted to most types of doors including wood, metal and uPVC.

Used in conjunction with Astro FingerKeeper Commercial Front, which covers the front hinges, the risk of finger trapping accidents on the hinge edge of the door is eliminated. The device is considered to be environmentally friendly. Simple to install, with a long life expectancy and easily removed and refitted without glue or nails. Screws are recommended (and supplied) for heavily traffic areas.

Every year, according to RoSPA, over 30,000 children are injured in the UK as a result of trapping their fingers in doors.

Quick Overview

Astro FingerKeeper Rearguard is a child safety, accident prevention product to prevent finger trapping in doors. Shields the rear hinges of the door. Fits most door types. Long anticipated lifespan. Durable but easily fixed - foolproof design ensures simple DIY fitting. Low maintenance - wipe clean finish. Easily removed and refitted to allow for door maintenance. Sold in 1960mm lengths. Full fitting kit included. Avoid litigation and compensation claims. Easily removed and re-fitted to allow door maintenance. Available in different colours to match existing décor.

Availability (Rear)

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How to order this product

Please quote:

- Quantity
- Trade Name
- Product Ref.
- Colour

For example:

10NO /ASTRO FINGER KEEPER COMMERCIAL / AFFKWH / WHITE

Online: www.astroflame.com
Phone: 01329 844 500
Or email: sales@astroflame.com
**FINGER SAVER ELITE PVC FRONT GUARD**

### Trade Name
ASTRO FINGER SAVER ELITE FRONT

### Product Description
Use the Astro Finger Saver Elite Front door safety product to prevent finger trapping accidents in doors, while allowing the door to operate normally. A simple, cost effective device that covers the gap created when doors are open. Also it prevents fingers being trapped on the hinge side of the door.

Astro Finger Saver Elite is ideal for nurseries, schools, residential care homes and the majority of domestic and commercial applications. The slimline folding design only protrudes 30mm from the door face in a closed position. Astro Finger Saver Elite Front can be fitted to most types of door including wood, metal and UPVC. It is very simple to install and can be easily removed or refitted for door painting or maintenance purposes. Please note if you are also fitting the Slim Rear Finger Guard, the rear device must be fitted before this front device. 1950mm lengths in a White, Brown or Black colour.

### Quick Overview

- Budget priced, good quality door finger guard
- Ideal for nurseries, schools and residential care homes
- Standard 1950mm lengths
- Durable and simple DIY fitting
- White, Brown or Black colours
- Suitable for areas of high pedestrian traffic
- Aesthetically pleasing slim line design only projects 30mm from door surface
- Supplied with high performance self-adhesive tape to aid fitting; fixing screws also provided

### Availability

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### How to order this product

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**SLIM REAR PVC FINGER GUARD**

### Trade Name
ASTRO FINGER SAVER ELITE REAR

### Product Description
Astro Finger Saver Elite Rear is a budget priced guard to cover the rear hinge gap for total protection from finger trapping accidents. Shaped like a long hinge strip, in an aluminium finish, it is installed using double-sided adhesive tape. For use in conjunction with standard commercial hinge with a barrel diameter between 12-18mm. Together with Astro Finger Saver Elite Front it guarantees total safety from the risk of finger pinching while allowing the door open to up to 180° depending on door configuration. Supplied in 1800mm lengths. Manufactured from PVC with an aluminium finish. Easily cut to required size(s).

### Quick Overview

- Budget priced door guard to cover the rear hinge gap
- Suitable for standard 12-18mm barrel diameter hinges
- PVC material in aluminium finish
- Ideal product for fitting when access is restricted
- Suitable for areas of high pedestrian traffic
- Aesthetically pleasing slim line design only projects 30mm from door surface
- Supplied with high performance self-adhesive tape to aid fitting; fixing screws also provided

### Availability

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</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FINGER GUARD FOR CENTRE PIVOT OR BUTT HINGED DOORS

> Product Description

Prevent the entrapment of fingers in the hinge gap of a door in the most demanding environments. The Astro Finger Guardian is a flexible safety strip which prevents fingers being jammed on the hinge side of a door and the jamb on the hinged side. Once installed the gap is covered completely and it is suitable for domestic or commercial use. The fitted guard is manufactured from PVC Nitrile and requires no maintenance other than a wipe down with a damp cloth for cleaning.

This finger guard is easy to install, requiring no specialist tools or equipment. The guard carrier strips are backed with self-adhesive tape, for attachment to the door frame, and fixing can be reinforced by means of concealed screws (screws supplied). Cover strips, used to conceal fitting screws are colour matched to the guard. The Astro Finger Guardian is suitable for Butt Hinged or Pivot Doors up to 180° opening depending on door configuration. There is an infection control variant of Astro Finger Guardian designed to inhibit the growth of bacteria. Price and details on application. Astro Finger Guardian comes in Front and Rear styles.

This finger guard is easy to install, requiring no specialist tools or equipment. The guard carrier strips are backed with self-adhesive tape, for attachment to the door frame, and fixing can be reinforced by means of concealed screws (screws supplied). Cover strips, used to conceal fitting screws are colour matched to the guard. The Astro Finger Guardian is suitable for Butt Hinged or Pivot Doors up to 180° opening depending on door configuration. There is an infection control variant of Astro Finger Guardian designed to inhibit the growth of bacteria. Price and details on application.

Astro Finger Guardian comes in Front and Rear styles.

Astro Finger Guardian comes in a standard Length of 1950mm. Available in a range of solid colours and wood grain Oak finish. Front style to fit 180° door openings depending on door configuration. Rear style to fit 105° door openings - for use on rear side of door only.

> Availability

Front Devices

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Rear Devices

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> How to order this product

PLEASE QUOTE
QUANTITY / TRADENAME / PRODUCT REF / COLOUR

FOR EXAMPLE
10NO / ASTRO FINGER GUARDIAN / AFFGUBRN / BROWN

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name**  ASTRO FINGER GUARD CLEAR

**TRANSPARENT FINGER GUARD FOR DOORS**

**Product Description**
A transparent, tough finger guard designed to fit most common interior door sizes. Self adhesive fitting strips are incorporated into the guard, which can further be secured with screws for maximum longevity.

The clear finger guard is a clear polymer material with a ‘rubbery’ feel that does not shatter. Resists cracking and splitting and absorbs kicks and knocks well. Blends in with natural timber finish doors in particular.

**Caution:** Do not fit to doors that can open more than 110°, otherwise the strips are likely to tear off from the door or frame and cause damage. 1950mm length matches standard door height.

**Quick Overview**
A strong, clear finger guard for interior doors up to 50mm thick (fire door thickness)

- **Standard Lengths 1950mm**
- Opens up to 110 degrees depending on door configuration
- Easily installed to most types of door using the self-adhesive strip built into the guard
- For maximum integrity of the clear finger guard we recommend additional securing of the strip using screws if door and frame materials permit
- Tested to 250,000 open / close cycles
- The clear guard avoids possible décor colour clashes
- ‘Soft’ material resists to cracking from kicks and knocks

**Availability**

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</table>

Online: [www.astroflame.com](http://www.astroflame.com)  phone: **01329 844 500**  or email **sales@astroflame.com**

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**CE MARKED, CERTIFIRE APPROVED PIPE COLLARS**

**INTUMESCENT PIPE COLLARS**

Astro PFP Pipe Closer are designed to maintain the fire resistance of fire rated walls and floors where these are breached by continuous plastic pipes. Astro PFP Pipe Closer can be used in gypsum, masonry and concrete walls and with concrete floors.

Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS,SAN+PVC and PP pipes and a wide range of composite plastic pipes. Available in standard sizes, to suit 55, 82, 110, 160 mm diameter pipes and more other sizes. For more information please go to page 56

**THE BEST ADVICE.**
**THE BEST FIRE SAFETY PRODUCTS.**
HEAVY DUTY HINGE GUARD

Product Description

Finger entrapment in doors can result in serious injuries that have long term effects and may require significant hospital treatment. Preventing such injuries is therefore important. Finger trap protection should be installed in all hinged or pivoted door situations, where users can potentially get fingers caught between the door and the frame. All public areas including shops, hotels and fitness centres should be reviewed for potential risks.

Areas of particular concern include:

- Schools or child care centres: Children suffer a disproportionate number of finger entrapment injuries because of their lack of understanding of the dangers presented by doors. Young children may put their fingers into the gap between a door and its frame without any awareness of the possible consequences.
- Homes or residential facilities for the aged or disabled: Those particularly with walking or balance difficulties often use the door frame as a support when negotiating a doorway and inadvertently put fingers into the jamb. This is especially true of those doors fitted with door closers. Where automatic swing doors are fitted, it is a requirement of BS EN 16005 that finger trap protection be used at the hanging stile(s) of the doorset.

TPV Information:

- TPV is a compound composed of Polypropylene and EPDM rubber used in vehicle, white goods and weatherproofing applications. TPV has excellent resistance to common industrial chemicals. TPV has greater tear strength and resistance than EPDM. TPV can be readily recycled.
- Lengths: 2100mm (Standard) and 2500mm (Long). Widths: 157mm (Standard) or 257mm (Wide).

Quick Overview

- For use with timber, steel hinged or pivoting doors
- Permits opening angles up to 120 degrees depending on door configuration
- Minimum 35mm door thickness
- Standard lengths 2100mm and 2500mm
- Anodised Aluminium carrier
- Self drilling screws included
- TPV blind has good environmental temperature performance (both low & high)
- Anti finger-trapping guard suited to interior or exterior use
- Excellent resistant to weathering and many common industrial chemicals
- Low compression set & flex fatigue resistance
- High UV resistance & long anticipated lifespan
- Longer and Wider Guard Options
- Tested to BS8613:2017 Finger Protection for Pedestrian Doors

Availability

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How to order this product

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Online: www.astroflame.com \ phone: 01329 844 500 \ or email sales@astroflame.com
HEAVY DUTY HINGE GUARD - RP62

Product Description

FingerKeeper Industrial - RP62 is a heavy duty finger-pinch protection device (anti-finger-trapping hinge guard). Manufactured from Black EPDM fitted in an Satin Anodised Aluminium carrier, that has black inserts to conceal the fixing screws. The EPDM safety strip prevents fingers being pinched on the hinge side of a door. It is fixed to the door and the jamb on the hinged side.

The FingerKeeper Industrial - RP62 anti-finger trapping guard suit the most demanding industrial environments. Supplied in standard lengths of 2100mm x 157mm wide.

There is a LONG version - 2500mm x 157mm strip width.

There is a WIDE version - 2100mm x 260mm strip width.

All versions can be cut to length required and/or butt jointed.

All versions suit butt hinged or centre pivot door.

All versions permit 90° or 180° opening.

NOTE: Two guards are required for centre pivot doors.

Availability

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</table>

Quick Overview

Door finger Guard suited to demanding commercial and industrial environments.

Anodised Aluminium and EPDM Rubber construction.

Fits butt hinged or centre pivot doors.

Available for 157mm or 260mm (wide) gaps.

Available in 2100mm or 2500mm (long) versions.

Easily removed and re-fitted to allow door maintenance.

Long anticipated lifespan.

Low maintenance - wipe clean finish.

How to order this product

FOR EXAMPLE
10NO / ASTRO FINGERKEEPER INDUSTRIAL / AFFKIND / 2100

Online: www.astroflame.com   phone: 01329 844 500   or email sales@astroflame.com
> Trade Name  ASTRO FINGER DEFENDER RP

**ROLLER TYPE FINGER GUARD**

> Product Description

Astro Finger Defender RP is a high quality finger guard with resilient blind. When the door opens the roller blind extends to prevent fingers entering the cavity formed between the edge of the door and door frame. A hard wearing synthetic fibre fabric which is mountable, removable, washable and also fire retardant B1 treated.

The Astro Finger Defender RP comes with 4 concealed housing fastening screws and 4 visible fabric profile screws. The housing position on this finger guard is adjustable (elongated holes). It is suitable for almost all doors depending on door configuration and has a Certified and supervised quality (MPA).

The profile is made of aluminium and available in a standard finish. The standard length is 1925mm with a 260mm extended fabric blind.

The Astro Finger Defender RP has been independently tested to over 2 million test cycles.

> How to order this product

For example

<table>
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<tr>
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</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com

> Quick Overview

Prevents finger trapping accidents.

Proven standard roller protector.


The fibre fabric is washable and difficult to ignite B1.

Concealed housing fastening screws and visible fabric profile screws.

Housing position adjustable (elongated holes).

Suitable for most doors depending on door configuration.

Certified and supervised quality (MPA).

2,000,000 test cycles.

> Availability

Standard Lengths

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> Optional Sold Separately:

Quick Install Mark Aid

Door leaf

Frame

Extended length

Door leaf

Frame
**Trade Name** ASTRO FINGER DEFENDER RPQR

**QUICK RELEASE ROLLER BLIND FINGER GUARD**

**Product Description**

Astro Finger Defender RPQR - quick release system is a high quality finger guard with resilient blind. When the door opens the roller blind extends to prevent fingers entering the cavity formed between the edge of the door and door frame. A hard wearing synthetic fibre fabric which is mountable, removable, washable and also fire retardant B1 treated.

Astro Finger Defender RPQR - quick release system has a unique advantage to other finger guards within the market. With its quick release system on one side of the device which allows for inspection and maintenance of hinges, drop seals and fire seals on a fire door. Making this process much easier than a device which needs to be completely removed.

The Astro Finger Defender RPQR comes with 8 screws without any of the screw heads being visible. The housing position on this finger guard is adjustable (elongated holes). It is suitable for almost all doors depending on door configuration and has a Certified and supervised quality (MPA).

The Astro Finger Defender RPQR has been independently tested to over 2 million test cycles.

The profile is made of aluminium and available in a standard finish. The standard length is 1925mm with a 260mm extended fabric blind.

Astro Finger Protecta PRQR (measurements in mm)

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**Availability**

**Standard Lengths**

- Astro Finger Defender RPQR 1925mm SAA AFFDEFSAF/RPQR

**Quick Overview**


**How to order this product**

P**LEASE QUOTE**

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Online: [www.astroflame.com](http://www.astroflame.com) phone: 01329 844 500 or email sales@astroflame.com
**FINGER DEFENDER**

**Trade Name**  
ASTRO FINGER DEFENDER

**Product Description**

The Astro Finger Defender is a durable, high quality finger guard with discreet styling, suitable for most single and double-action doors, including automated doors. A resilient ‘roller blind’ style mechanism prevents fingers from entering the cavity formed between the edge of the door and door frame.

The blind fully retracts into the robust aluminium housing when the door is closed - unlike concertina style finger guard blinds that are exposed to impact damage when closed.

Also suitable for use with manually operated (non-automated) doors. This finger guard has concealed screw fixings and comes complete with end caps for that even neater finish.

The aluminium housing is available in three standard finishes and any RAL colour on request. Independently tested to over 1 million opening & closing cycles.

Maximum opening: 260mm.

Available in a standard length 1925mm with a maximum opening of 260mm.  
Stock finishes: Silver Anodised Finish, White or Dark Bronze.  
RAL colour coated versions and non standard lengths available to special order & subject to minimum order size.

The longer version 2015mm size guard complies with EN16005:2012 for automatic doors.

**Availability**

*Standard Lengths*

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<th>DESCRIPTION</th>
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*Longer Lengths*

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<th>LENGTH</th>
<th>COLOUR</th>
<th>PRODUCT REF</th>
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<tbody>
<tr>
<td>Astro Finger Defender</td>
<td>2015mm</td>
<td>Satin Anodised Aluminium</td>
<td>AFFDEFSAFX</td>
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<tr>
<td>Astro Finger Defender</td>
<td>2015mm</td>
<td>White (RAL 9016)</td>
<td>AFFDEFWHTX</td>
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<tr>
<td>Astro Finger Defender</td>
<td>2015mm</td>
<td>Dark Bronze</td>
<td>AFFDEFDBX</td>
</tr>
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<td>Astro Finger Defender</td>
<td>2015mm</td>
<td>RAL Colours to Order</td>
<td>AFFDEFCOLX</td>
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</tbody>
</table>

**Quick Overview**

Prevents finger trapping accidents.  
Suitable for automatic or manual operation doors.  
Suitable for most single or double-action doors.  
Extremely durable and maintenance free.  
Tested to over 1 million open & closing cycles.  
Fits most doors up to 180° opening depending on door configuration.  
Satin Anodised Aluminium, Dark Bronze Anodised or White as standard or any RAL colour on request.  
Standard length 1925mm with a maximum opening of 260mm.  
Longer version 2015mm meets EN16005:2012 for automatic doors.  
Tested to EN16654:2015 Child Protection Products.  
Tested to BS8613:2017 Finger Protection for Pedestrian Doors.

**How to order this product**

**PLEASE QUOTE**

<table>
<thead>
<tr>
<th>QUANTITY / TRADE NAME / SIZE / COLOUR / PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR EXAMPLE</td>
</tr>
<tr>
<td>10NO/ ASTRO FINGER DEFENDER / 1925 / SAF / AFFDEFSAF</td>
</tr>
</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)  
phone: 01329 844 500  
email: sales@astroflame.com
FINGER PROTECTA

> Trade Name  ASTRO FINGER PROTECTA

> Product Description

Astro Finger Protecta uses a high quality housing and a resilient fabric blind in a ‘roller’ type mechanism to prevent finger trapping accidents in doors. The blind covers the hinge gap when the door is opened and retracts into the robust aluminium housing when the door is closed. The retractor mechanism makes for a tidy and robust guard which is not exposed to potential damage in the way that concertina style guards are - even when in the closed position.

Independently tested to over 1 million opening & closing cycles. This hinge guard comes complete with end caps for a neat finish. This finger guard is at the higher end of the price range but we think it represents good value and sample lengths are available so that the quality of manufacture and colours can be assessed. Styled to blend in with high quality decor (RAL colour matching is available) the guard has concealed screw fixings and comes complete with end caps for a neat finish.

Standard size 1925mm. Guard Material Widths: 260mm to suit up 180 degree doors or 320mm for wider sections depending on door configuration.

Housing colours: Satin Anodised Aluminium, White, Dark Bronze Anodised or any RAL colour. Custom RAL colours and lengths subject to minimum order quantity.

> How to order this product

FOR EXAMPLE
10 NO / ASTRO FINGER PROTECTA / 260 / WHITE / AFFPROWHT

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FINGER DEFENDER - GL

**Product Description**

Astro Finger Defender - Glass is a high quality finger guard designed exclusively for use with glass doors. It uses a resilient blind mounted in a robust aluminium housing that attaches to the door frame. The other end of the blind is fixed to the surface of the glass door via an aluminium strip with built-in acrylate-foam high performance tape.

The tension in the blind prevents fingers entering the hinge gap, where they may be subject to trapping, independently tested to over 1 million opening & closing cycles.

Standard length 1925mm, a 2015mm Longer length available to order to comply with EN16605.
Max opening width 260mm

**Quick Overview**

- A finger guard exclusively for glass doors
- Suitable for most single or double-action glass doors
- Suitable for manual or automated opening glass doors
- Prevents finger trapping accidents
- Extremely durable and maintenance free
- Tested to over 1 million open & closing cycles
- Suitable for 180° opening depending on door configuration
- Satin Anodised Aluminium roller system housing with Black fire retardant fabric

**Availability**

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<td>Satin Anodised Aluminium</td>
<td>AFFDEFSAFGL</td>
</tr>
</tbody>
</table>

**How to order this product**

Please quote:

- **QUANTITY / TRADE NAME / PRODUCT REF**
- FOR EXAMPLE
  10NO / ASTRO FINGER DEFENDER GLASS / AFFDEFSAFGL

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com

---

**FITTED IN SECONDS.**

FIRE & ACOUSTIC SOCKET BOX INSERT

Recessed switch and sockets are used as the preferred option in most domestic and commercial buildings, however they are also the cause of many problems and require special consideration to meet both Building Regulations and Energy Efficiency concerns.

A recessed switch or socket penetrates the fire barrier of any fire rated wall and creates an easy path for fire and smoke to quickly spread from room to room. Fit an ‘Fire and Acoustic Socket Box Insert’ from Astroflame, suitable for plastic or metal back boxes, and you’ll get a full 2 hours protection against the spread of fire - enough time to protect property and save lives.

**THE BEST ADVICE.**
**THE BEST FIRE SAFETY PRODUCTS.**

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

**ALSO AVAILABLE FROM ASTROFLAME:**

- FIRE PROOF PAINTS
- ANTI GRAFFITI PAINTS
- DRAUGHT PROOFING
- ACOUSTIC SEALS & DISABLED ACCESS.
**Trade Name**  ASTRO FINGER DEFENDER - WASHABLE

**FINGER DEFENDER WASHABLE GUARD**

**Product Description**

The Astro Finger Guard - Washable is ideal for hospitals, kitchens and other clean areas. Perfect for sterile environments as it can be steam cleaned, so surfaces are wipeable and easy to clean. The Astro Finger Guard - Washable is also a high quality finger guard ideal for use with external doors subject to weathering forces. The guard is resistant to: rain, snow, frost, foliage, dirt and UV light with an operating temperature range of -20 to +50 °C. This guard has an increased wall thickness for extra durability and has been tested to over 200,000 cycles. The guard is attached by concealed fixings and the tension in the blind prevents fingers entering the hinge gap, where they may be subject to trapping. Supplied with instructions and all fixings.

Standard lengths : 1925mm.

Colours: Satin Anodised Aluminium housing with Anthracite Grey (RAL 7016) blind fabric.

**Quick Overview**

Ideal for hospital, kitchens and other clean areas

Water resistant and easy to clean - perfect for sterile environments.

Perfect weather-proof finger guard for exterior/interior doors.

Temperature range -20 to +50°C.

For most single & double action doors.

Suitable for manual or automated opening.

Prevents finger trapping accidents.

Extremely durable and low maintenance.

Silver Anodised Aluminium finish.

1925mm standard size.

Tested to over 200,000 cycles.

With a maximum opening of 260mm.

**Availability**

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</table>

**How to order this product**

**FOR EXAMPLE**

10NO / ASTRO FINGER GUARD - WASHABLE / AFFDEFSAFEXT

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
DIGISAVER ALUMINIUM FINGER GUARD

> Product Description

This durable aluminium guard made of T6 alloy - as used in aircraft construction. Impossible for a finger to deflect the guard material. Light in weight with a heavy duty performance. The guard will not crack, tear or rip in the way that plastic polymer based guards can when subject to abuse or hard knocks. The guard slides on a short track, which uses a self-lubricating plastic to minimise maintenance needs and can be installed in a few minutes. Supplied in 2000mm lengths that can be cut to required door opening height. Suitable for up to 180° door opening angles depending on door configuration.

NOTE: The door surface material must be able to accept the screws used to secure the guard’s guide rails.

Astro DigiSaver (measurements in mm) 180° Model

> Availability

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<th>DESCRIPTION</th>
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<th>SIZE</th>
<th>COLOUR</th>
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<td>2000mm</td>
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<td>AFFG05180</td>
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</table>

> How to order this product

FOR EXAMPLE
10NO / ASTRO DIGISAVER / 2000 / AFFG05180

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com

Don’t let them get away with it!

TURN TO PAGE 87 FOR OUR RANGE OF ANTI-GRAFFITI PAINTS OR VIEW WWW.ASTROFLAME.COM AND CLICK ANTI-GRAFFITI.

FOR ANTI-GRAFFITI PAINTS THINK...

ASTROFLAME MANUFACTURERS OF PASSIVE FIRE STOP PRODUCTS
> Trade Name  ASTRO ALUSLIDE FINGER GUARD

ALUMINIUM FINGER GUARD FOR DOORS

> Product Description

The Astro AluSlide Aluminium Finger Guard is a heavy duty finger guard for doors in high traffic areas. The all aluminium construction makes this guard suitable for situations where plastic types will prove uneconomical in the longer term.

In heavy duty environments plastic guards may need replacing within 6 - 24 months of installation whereas this guard will perform as intended for years. The smooth surface design makes for hygienic wipe-down cleaning. The rigidity of the guard prevents it from deflecting even under persistent finger pressure.

The door surface material must be able to accept 25mm No. 8 screws. The main body of the finger guard is fixed to the door frame at one side and the other side slides across two runner plates fixed to the doors. This all 100% aluminium guard takes the knocks better - and for longer - with its rigid construction.

NOTE: The door surface material must be able to accept 25mm No.8 screws. The finger guard fixes to the door frame on one side and the other slides across two small metal strips which are screwed into the door face. This finger guard is wide enough to accept small stick on signs, numbers, logos etc.

The maximum opening angle is 100° and suitable for single swing doors up to 54mm thick.

> Availability

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<tr>
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<td>1800mm</td>
<td>Anodised Aluminium</td>
<td>AFFGALU</td>
</tr>
</tbody>
</table>

> Quick Overview

Durable all Aluminium heavy duty construction for long working life
Fit-for-purpose in severe duty environments such as schools and hospitals
Hygienic wipe clean surface to combat Healthcare Associated Infections (HCAI)
Better rigidity and impact resistance than plastic based guards
Retrofits to existing doors, 1800mm lengths
Satin Anodised Aluminium finish

> How to order this product

PLEASE QUOTE
QUANTITY / TRADE NAME / SIZE / PRODUCT REF

FOR EXAMPLE
10NO / ASTRO ALUSLIDE FINGER GUARD / 1800 / AFFGALU

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
ANTI-FINGER TRAPPING
DEVICE FOR REAR OF DOOR

Product Description

Astro Finger SlimGuard Rear is designed to prevent finger trapping on the hinge pin side of the door (where the small gap is when the door is open). When used in conjunction with a front finger guard door hinges are 100% covered.

Supplied in 2 metre lengths that are cut to size and fitted above, between and below hinges. Astro Finger SlimGuard Rear comes with pre-drilled, countersunk fixing points and with self-adhesive tape to aid fitting.

This Slim guard can fit to most single action manual or automated doors and can be retrofitted to existing doors.

Sold in 2000 mm lengths. Supplied in Satin Anodised Aluminium (SAA) finish only.

SlimGuard Rear (measurements in mm)

Quick Overview

Astro Finger SlimGuard Rear shields the rear hinge gap of the door
Robust, effective, easy to install solution
All Aluminium construction
Fits like an extra long hinge
Can be fitted to most single action doors
Suitable for manual or automated doors
Can be fitted to new doors and retrofitted to existing doors
Sold in 2000 mm lengths
Designed for doors with standard 13mm diameter hinges

Availability

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How to order this product

FOR EXAMPLE
12NO / ASTRO FINGER SLIMGUARD REAR / AFFGSGR

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
SAFETY PROTECTION PRODUCTS

Corner Guard - Safety Padding minimises injury and damage in collisions of children, adults or vehicles with the sharp edges of walls, support pillars etc. Padding products are manufactured to the highest standards and to the optimum specification for its purpose and operating environment. For example the corner guard intended to protect children is manufactured from child-safe materials.

Window Restrictors allow for safe and secure natural ventilation while guarding against the risk of falls from windows, balcony doors etc. or from intruders. Restrictors can be unlocked as required for full window opening.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600

Go to Page: 51
> **Trade Name**  ASTRO CORNER GUARD WALL PROTECTION

## WALL PROTECTION STRIPS

### Product Description

Astro Corner Guard Wall Protection is perfect for the professional market. The corner guard strips have been specifically designed to offer performance and function in domestic, commercial and heavy traffic areas. Designed to resist impact damage to vulnerable edges which suits most application areas.

The corner guard is also perfect for environments where children are playing to protect them from accidents. A collision with a sharp angles or edges can have serious consequences for children. The robust material of the corner guard absorbs the heaviest crashes, therefore corner guards are essential.

Astro Corner Guard Wall Protection (measurements in mm)

<table>
<thead>
<tr>
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<tr>
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<td>AFCGWPCl</td>
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<td>AFCGWPR</td>
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</tbody>
</table>

### Quick Overview

Budget Corner guard - Wall protection strips
Prevents injuries caused by collision with sharp pillars or wall edges
Can be used on almost all corners and edges of walls, windowsills, columns, racking etc
Suitable for use on any even and smooth interior surface
Tube padding which is highly durable
Resistant to shocks and scrapes
Rubber and light weight material
Quick and easy to install
Strip dimensions to a height of 2000mm
Various colour options

### Availability

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</table>

### How to order this product

Please quote
- **QUANTITY / TRADE NAME / PRODUCT REF / COLOUR**
- **FOR EXAMPLE**: 10 / CORNER GUARD / AFCGWBPBLK / BLACK

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
> **Trade Name**  ASTRO CORNER GUARD COMMERCIAL

**CORNER GUARD SAFETY STRIP**

> **Product Description**

The padded guard reduces impacts and prevents more serious injuries when there is a collision. This tough and durable safety cushioning is designed for indoor use in normal habitable conditions (frost free, dry, no prolonged direct sunlight). Corner Guards can be used outdoors but the life of the strips will be considerably reduced by exposure to the elements. Note: Strip must be fitted whole and should not be cut to shorter lengths.

Easily fitted using silicone sealant (MS-Polymer). Manufacture using safe and child friendly materials / safe toy standards. Material is a child safe Urethane - tested to same specification as children’s toys and is certified to ST safe toys requirements. Flame retardant, waterproof, bacteriostasis properties, contains no toluene or heavy metal content. Fitting is straightforward but the surface should be dry, even and smooth for proper adhesion.

The guard dimensions are 1000 x 58 x 58 x 15 mm. Corner Guards are available in the following colours Red, Yellow, Blue, Ivory, Grey.

> **Quick Overview**

Prevents injuries caused by collision with sharp pillar or wall edges

Can be used on almost all corners and edges of walls, windowsills, columns, racking etc

Suitable for use on any even and smooth surface

Strip size 1000 x 58 x 58mm, padding is 15mm thick

Safe, durable and quality guaranteed

Flame retardant & waterproof, Bacteriostasis properties

Certified per ST safe toys requirements

Manufactured with an integral urethane skin

Highly durable - resistant to shocks and scrapes

Quick, easy to install & various colour options

> **Availability**

Packed - Individually.

<table>
<thead>
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</tbody>
</table>

> **Available Colours**

- Red
- Yellow
- Blue
- Ivory
- Grey

> **How to order this product**

**PLEASE QUOTE**

QUANTITY / TRADE NAME / PRODUCT REF

**FOR EXAMPLE**

10NO / ASTRO CORNER GUARD COMMERCIAL / AFCGR

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
> **Trade Name**  
**ASTRO CORNER GUARD INDUSTRIAL**

## REFLECTIVE SAFETY PADDING STRIP

### Product Description

A reflective corner guard used as protective cushioning on corners and hard edges of buildings to prevent damage to or from vehicles. The black / reflective yellow 'hazard' colours for use on sharp edges of walls and pillars. Typical applications are car parks, loading bays and warehouses.

Astro Corner Guard Industrial padding has an aluminium 'spine' which further reduces the risk of damage to property and vehicles. Strips are in the universal hazard colours of black with a reflective yellow stripe to get the attention of vehicle users. Quick and easy to install and needing no special maintenance.

Dimensions: 1000mm x 95mm x 95mm with 18mm thick padding. Supplied pre-drilled and with fixing bolts and neat cover caps.

Aluminium strip

### Availability

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<tbody>
<tr>
<td>Astro Corner Guard Industrial</td>
<td>1000mm</td>
<td>Black / Yellow</td>
<td>AFCGIND</td>
</tr>
</tbody>
</table>

### Quick Overview

Astro Corner Guard Industrial is suitable for use on corners found: in car parks and loading bays, in work areas where vehicles are active & in many buildings and public areas.

- Highly reflective - drawing peoples attention in order to help prevent a collision
- Quick and easy to install
- 18mm thick padding
- Strip dimensions 1000 x 95 x 95mm
- Aluminium strip, to increase strength & cushioning effect, enclosed in integral Skin Urethane
- Reflective tapes cover the corner guard strip
- Supplied pre-drilled & with fixing bolts & caps
- Fully complies with safety regulations
- Reduces damage to fabric of walls & pillars of buildings
- Highly durable and resistant to bumps & scrapes

### How to order this product

**PLEASE QUOTE**
**QUANTITY / TRADE NAME / PRODUCT REF**

For example:

10NO / ASTRO CORNER GUARD INDUSTRIAL / AFCGIND

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
> **Trade Name**  ASTRO WINDOW RESTRICTOR

**WINDOW RESTRICTOR**

> **Product Description**

A window restrictor protects babies and children from accidental falls via windows or balcony doors opened to allow natural ventilation.

It also acts as a security measure to deter opportunist intruders and to restrict what can be passed via the window / door gap. This model can be used on all types of windows and doors including uPVC, aluminium, wooden and metal profiles.

The locked cable restricts window opening to under 100mm but, when unlocked, the window can be fully opened making this restrictor suitable for use on doors and windows that may be used for fire evacuation purposes.

The locked restrictor withstands forces over 100kg (220 lbs. / 15 stone / 980Nm): the industry standard is 50kg. Tested to EN 13126-5 : 2011 + A1 : 2014.

It is robust, durable and easy to fit and supplied with all required fittings plus instructions. Locking system and key resistant to oxidation and corrosion - made of a zinc alloy cast body and a nickel plated pin.

Astro Window Restrictor kit available in White or Brown finishes.

> **Quick Overview**

Locking cable window restrictors enable natural ventilation without introducing safety / security risks for children


Installs to PVC, aluminium, wooden and metal profile windows and doors

Window can be fully opened by unlocking the restrictor cable

Resistant to oxidation and corrosion

White or Brown finish

Supplied as a kit with all fittings and instructions

Durable and easy to install

Limits window opening to under 100mm

> **Availability**

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<td>AFWRBRN</td>
<td>Brown</td>
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<td>200mm Cable</td>
</tr>
</tbody>
</table>

> **How to order this product**

PLEASE QUOTE

QUANTITY / TRADE NAME / COLOUR / PRODUCT REF

FOR EXAMPLE

10NO / ASTRO WINDOW RESTRICTOR / WHITE / AFWRWHT

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
FIRE DOOR RETAINER

**Trade Name**  DORGARD SMARTSOUND

**Product Description**
Dorgard SmartSound is a wireless fire door retainer which holds fire doors open. The unit continually listens for the frequency of the alarm and once verified, will automatically release the door to close. It enables greater accessibility and complies with fire regulations.

The product offers three year’s peace of mind with warranty, battery and service frequency. Suitable for environments that already have an automatic fire detection system installed:

- offices
- care homes
- hotels
- hostels
- schools

**Quick Overview**

Fire Door Retainer
- A wireless solution for legally holding open fire doors.
- New SmartSound technology - not triggered by vacuum cleaners.
- Three-year battery life and three-year warranty.
- Carpet friendly - leaves no marks.
- Can be fitted to most types of doors.
- No programming required, just fit and forget.
- Installed easily in under five minutes.
- Set Dorgard SmartSound to release the door automatically.
- Set your Dorgard SmartSound to release your door at the same time each day.

3 year warranty

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<td>AFDGRBLK</td>
</tr>
</tbody>
</table>

White or Black colours.

**How to order this product**

Please quote
- QUANTITY / TRADE NAME / PRODUCT REF

For example
- 10 / DORGARD SMARTSOUND / AFDGRBLK

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com

Telescopic Letterboxes

- Up to 60 minute fire rated letterboxes suitable for FD30/FD30S fire doors
- Wide range of letter plate finishes
- 10” Standard or 12” Commercial sizes
- High performance intumescent liner

GO TO PAGE 13
FIRE STOP PRODUCTS

Passive Fire Stop Products are a form of fire safety provision that remains dormant, or inert, during normal conditions but becomes active in a fire situation. It is an integral component of structural fire protection in a building, which is designed to contain fire and smoke or slow their spread.

The purpose is to contain the spread of fire for sufficient time to permit the safe evacuation of all occupants of the premises and the arrival of the fire brigade. Astroflame’s Passive Fire Stop Products also serves to ensure the building remains as safe as possible for entry in this situation and to minimise damage to the building itself.

The following Fire Stop products are used to slow the spread of fire via the various penetrations and voids commonly occurring in buildings for pipework, conduits, ducts, cables, socket boxes, ventilation, exterior cladding etc. as required in the UK Building Regulations, Approved Document B - Fire Compartmentation.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
THIRD PARTY CERTIFICATION

As manufacturers of Built In fire stopping products we take new legislation seriously, these are life safety products after all. For many years now BS or EN testing has been used to fire test the products in our industry, however as things move forward Astroflame in compliance with the CPR are now using more and more Third Party Approvals such as CE, UL-EU, Certifire amongst others to ensure and demonstrate that the products are fit for purpose.

The CE Mark provides proof of this “fitness for purpose” and the manufacturer affixing the CE mark shows that the construction product will enable the finished construction works such as a hotel or school to comply with the Construction Products Regulation requirements. You will find on our web site on the relevant CE product pages links to the (C of C) Certificate of constancy of performance, (DOP) Declaration of performance and the (ETA) European technical assessment.

For more details on our wide range of CE products turn to pages: Fire Door Hardware (P26), Astro X Series CE Pipe Collar (P55), Astro PFP Pipe Closer (P56), Astro X Series Ce Pipe Wrap UL (P58), Astro X Series Ce Pipe Wrap (P59), Astro PFP FR Pipe Wrap (P60), Astro Thermal Fire PS (P62), Astro X Series Pillow (P63), Astro DS Duct Sleeve (P65), Astro DS Duct Sleeve Low Profile (P66), Astro PFP FR Putty Seal (P67), Astro HS FM Compound (P72), Astro PFP FR EX Mortar (P73), Astro PFP FR Boards (P73), Astro PFP FR Coating (P74), Astro Batt (P74), Astro Coat - Spray Grade (P75), Astro PS Coat (P75), Astro Flexi-Coat Seal (P76), Astro PFP FR Acrylic (P81), Astro INTU Mastic (P81) & Astro HPE Sealant (P82).

UL-EU Mark is intended for use on products destined for the European marketplace. It means that UL has evaluated representative samples of a product or component and determined that those samples comply with the UL-EU Mark service requirements.

The UL-EU Mark appears on a product or component with a manufacturer’s identification, i.e., company name or trademark as well as a product or component model number.

Certifire is an independent third party certification scheme that assures performance, quality, reliability and traceability of fire protection products. Recognised by regulatory authorities worldwide, it is an internationally respected mark of fire safety and one of the most authoritative in the industry.

The fundamental benefit of Certifire is seated in giving the regulator, specifier, customer and end-user confidence with regards to the stated performance of the product and provides an informed choice when purchasing or selecting the product.

Astroflame is now a member of the Association for Specialist Fire Protection or ASFP for short. The ASFP aims to develop the passive fire protection market by evidencing that ‘built-in’ fire protection is vital to control the spread of fire and smoke.

Dedicated to the protection of life, property and the environment, the Association strives to raise awareness of the important role of passive fire protection throughout the life of a building, from design and construction to ongoing maintenance.
**Product Description**

Astro X Series CE Pipe Collars are designed and tested to seal service penetration apertures containing plastic pipes or cables, using thermoplastic composites based on graphite intumescent technology. Developed to provide a high-volume expansion and pressure seal during a fire. The X Series CE Collar offers EI120 and EI240 tested to EN1366-3:2009, the maximum diameter being 250mm, the ultra thin design of Astro X Series Collar shell gives a depth of 30mm and 40mm ensuring that they can be installed into the tightest of locations.

Astro X Series Pipe Collar can be installed on flexible or rigid wall, rigid floor constructions. It can also be used with Astro batt systems. They are compatible with polypropylene (pp), polyethylene (PE) and Polyvinylchloride (PVC) pipes.

Astro X Series CE Pipe Collar include an intumescent component incorporated into a mild steel case to close any gaps and joints and provide a closure of combustine pipes when heated and to prevent the passage of fire.

Astro X Series CE Pipe Collars are supplied in assembled form, without fixings. The collar is wrapped around the pipe at the soffit or both faces of walls, depending on application configurations that cover U/U, C/U, U/C and C/C pipes.

**Availability**

The Astro X Series CE Pipe Collar range is available in standard sizes, to suit 55, 82, 110 & 160mm diameter pipes, and includes intermediate and larger sizes.

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFPC32X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 32mm</td>
<td>32mm</td>
</tr>
<tr>
<td>AFPC40X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 40mm</td>
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<td>AFPC55X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 55mm</td>
<td>55mm</td>
</tr>
<tr>
<td>AFPC63X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 63mm</td>
<td>63mm</td>
</tr>
<tr>
<td>AFPC75X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 75mm</td>
<td>75mm</td>
</tr>
<tr>
<td>AFPC82X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 82mm</td>
<td>82mm</td>
</tr>
<tr>
<td>AFPC90X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 90mm</td>
<td>90mm</td>
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<tr>
<td>AFPC100X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 100mm</td>
<td>100mm</td>
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<tr>
<td>AFPC125X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 125mm</td>
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<tr>
<td>AFPC140X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 140mm</td>
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<tr>
<td>AFPC160X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 160mm</td>
<td>160mm</td>
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<tr>
<td>AFPC200X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 200mm</td>
<td>200mm</td>
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<tr>
<td>AFPC250X/CE</td>
<td>ASTRO X SERIES CE PIPE COLLAR 250mm</td>
<td>250mm</td>
</tr>
</tbody>
</table>

**Quick Overview**

- CE Marked
- Certifire Approved
- Fire Resistance testing to EN 1366-3:2009
- Pipe sizes from 32mm to 250mm
- Compatible with PP, PE, PVC-U, ABS, SAN+PVC Pipes
- 3 Fixing Tabs
- End Capping – Uncapped U/U and Capped U/C & C/U pipes
- New Design with reduced height for tight installations

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO X SERIES CE PIPE COLLAR/ AFPC55X/CE</td>
</tr>
</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
Trade Name: ASTRO PFP PIPE CLOSER

CE MARKED INTUMESCENT PIPE CLOSER

Product Description

Astro PFP Pipe Closer are designed to maintain the fire resistance of fire rated walls and floors where these are breached by continuous plastic pipes. Astro PFP Pipe Closer can be used in gypsum, masonry and concrete walls and with concrete floors.

Each pipe closer consists of a Red coated circular steel shell that splits in two to fit around the service penetrations by means of a simple ‘slide-lock’ system. The steel shell contains a graphite based reactive material which reacts when exposed to heat closing the openings left by the softening plastic pipe in fire.

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and/or the installation environment. The code defining if a pipe is capped is stated after the fire classification. For instance EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible.

Our engineering judgment based on EN 1366-3:2009 are:

Quick Overview

CE Marked
For pipe sizes from smallest pipes available to Ø315 mm with a wide range of pipe wall thicknesses
Smaller pipes can be fitted within larger closers with the benefit of accommodating pipes that are at an angle or if the opening around the pipe is too large
Fire classifications up to 240 minutes for both integrity and insulation
Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS,SAN+PVC and PP and a wide range of composite plastic pipes
Tested and certified for U/U pipe end applications
Classified for fire sealing in all types of constructions
Excellent sound insulation
No emissions - environmentally and user friendly
Unlimited storage time (under correct conditions)
30 years working life gaurantee

Available

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>AFPPPC32</td>
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<tr>
<td>AFPPPC40</td>
<td>ASTRO PFP PIPE CLOSER 40mm (DEPTH 50mm)</td>
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<tr>
<td>AFPPPC55</td>
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<td>AFPPPC75</td>
<td>ASTRO PFP PIPE CLOSER 75mm (DEPTH 50mm)</td>
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<td>AFPPPC82</td>
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<tr>
<td>AFPPPC90</td>
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<td>AFPPPC160</td>
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<td>AFPPPC200</td>
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<td>AFPPPC250</td>
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<tr>
<td>AFPPPC315</td>
<td>ASTRO PFP PIPE CLOSER 315mm (DEPTH 75mm)</td>
<td>315mm</td>
</tr>
</tbody>
</table>

How to order this product

Please Quote: QUANTITY / TRADE NAME / PRODUCT REF / SIZE

For Example: 10NO / ASTRO PFP PIPE CLOSER / AFPPPC110 / 110MM

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
INTUMESCENT PIPE COLLARS

> Trade Name ASTRO COLLAR

> Product Description

Our intumescent pipe collars are manufactured from a high performance material bonded to the inside of a steel sleeve. On exposure to heat from a fire, they rapidly expand inwards to squeeze the collapsing plastic pipe until the aperture is completely sealed. Pipe collars are tested in accordance with the performance requirements of BS476: Part 20: 1987. Astro E Collar can provide 2 hour fire resistance. Astro P Collar offers up to 4 hour resistance. The pipe collars are light and compact, easy to install, maintenance free and find uses in multi-storey office buildings, flat level developments, hospitals and hotels. Suitable for use and anywhere plastic soil and waste pipes pass through fire compartment walls and floors. Also tested to EN1366-3 and IFC Approval.

> Availability

The Astroflame Pipe Collar range is available in standard sizes, to suit 55, 82, 110, 160 & 200 mm diameter pipes, and includes intermediate and larger sizes.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PRODUCT REF</th>
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<tbody>
<tr>
<td>32mm</td>
<td>AFPC32/4P</td>
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<td>AFPC225/4P</td>
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<tr>
<td>250mm</td>
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4 Hour

<table>
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<tr>
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<td>55mm</td>
<td>AFPC55/2E</td>
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<tr>
<td>110mm</td>
<td>AFPC110/2E</td>
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<td>AFPC160/2E</td>
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<tr>
<td>180mm</td>
<td>AFPC180/2E</td>
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<tr>
<td>200mm</td>
<td>AFPC200/2E</td>
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<tr>
<td>225mm</td>
<td>AFPC225/2E</td>
</tr>
<tr>
<td>250mm</td>
<td>AFPC250/2E</td>
</tr>
</tbody>
</table>

> Quick Overview

Intumescent Pipe Collars tested to BS476: Part 20: 1987 EN1366-3
For use on UPVC, ABS, MDPE, HDPE and PP pipes
Up to 4 hours fire resistance
Surface mounted or cast applications
IFC Approval

> How to order this product

Please quote
QUANTITY / TRADE NAME / PRODUCT REF / SIZE / RATING

For example
10NO / ASTROCOLLAR / AFPC55/2E / 55MM / 2HOUR

Online: www.astroflame.com  Phone: 01329 844 500  Or email sales@astroflame.com
**Trade Name**  
ASTRO X SERIES CE PIPE WRAP UL

**INTUMESCENT 25M ROLL CE PIPE WRAP**

**Product Description**

Astro X Series CE Pipe Wrap UL are designed and tested to seal service penetration apertures containing plastic and metallic pipes, pipes with insulation, using thermoplastic composites based on graphite Intumescent technology. Developed to provide a high volume expansion and pressure seal during a fire. The Astro X Series CE Pipe Wrap UL offers EI120 tested to EN1366-3, the maximum diameter being 200mm; the ultra thin design of Astro X Series CE Pipe Wrap UL ensuring that they can be installed in to the tightest of locations.

Astro X Series CE Pipe Wrap UL can be installed in flexible wall, rigid wall, rigid floor constructions and with Batt systems. They are compatible with polypropylene (PP), polyethylene (PE) and polyvinylchloride (PVC) pipes. Astro X Series CE Pipe Wrap UL is tested with end capping configurations that cover U/C & C/C pipes.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>AFIPWELX/CE</td>
<td>Astro X Series CE Pipe Wrap UL</td>
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**Configuration for up to 240 mins**

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<td>32mm</td>
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<tr>
<td>200mm</td>
<td>10mm</td>
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</table>

**How to order this product**

Please quote

QUANTITY / TRADE NAME / PRODUCT REF / SIZE

For example

10NO / ASTRO X SERIES CE PIPEWRAP UL / AFIPWELX/CE / 25M

Online: [www.astroflame.com](http://www.astroflame.com)  
phone: 01329 844 500 or email sales@astroflame.com
> Trade Name  ASTRO X SERIES CE PIPE WRAP

INTUMESCENT CE MARKED PIPE WRAP

> Product Description

Astro X Series CE Pipe Wrap are designed and tested to seal service penetration apertures containing plastic pipes using thermoplastic composites based on graphite Intumescent technology.

Developed to provide a high volume expansion and pressure seal during a fire. The Astro X Series CE Pipe Wrap offers EI120 tested to EN1366-3, the maximum diameter being 200mm, the ultra thin design of Astro X Series CE Pipe Wrap ensuring that they can be installed in to the tightest of locations.

Astro X Series CE Pipe Wrap can be installed in flexible wall, rigid wall, rigid floor constructions and with Batt systems. They are compatible with polypropylene (PP), polyethylene (PE) and polyvinylchloride (PVC) pipes.

Astro X Series CE Pipe Wrap is used around combustible pipes to form a penetration seal used to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of combustible pipe services.

Astro X Series CE Pipe Wrap include an intumescent component incorporated into a lightweight polythene layflat tubing to close any gaps and joints and provide a closure of combustible pipes when heated and to prevent the passage of fire.

> Availability

Astroflame X Series CE Pipe Wraps come available in many standard sizes to suit eg. 55, 82, 110 & 160mm diameter pipes, and includes intermediate and larger sizes.

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFIPW32X/CE</td>
<td>ASTRO X SERIES CE PIPE WRAP 32mm</td>
<td>32mm</td>
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<tr>
<td>AFIPW40X/CE</td>
<td>ASTRO X SERIES CE PIPE WRAP 40mm</td>
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<tr>
<td>AFIPW200X/CE</td>
<td>ASTRO X SERIES CE PIPE WRAP 200mm</td>
<td>200mm</td>
</tr>
</tbody>
</table>

> Quick Overview

CE Marked
Certifire Approved
Fire Resistance Testing to EN 1366-3 : 2009
The pipes tested include PVC, PP, HDPE and PE up to a size of 200mm diameter
Fire resistance testing through flexible wall and rigid floors and walls
Resistance to fire classification EN 13501-2
Not affected by fungus, vermin or rodents
Remains flexible between -5°C to +40°C

> How to order this product

**PLEASE QUOTE**
QUANTITY / TRADE NAME / PRODUCT REF / SIZE

**FOR EXAMPLE**
10NO / ASTRO X SERIES CE PIPE WRAP/ AFIPW55X/CE / 55MM

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email [sales@astroflame.com](mailto:sales@astroflame.com)
**Trade Name**  ASTRO PFP FR PIPE WRAP

**INTUMESCENT PIPE WRAPS**
**CE MARKED**

**Product Description**

The Astro PFP FR Pipe Wrap is designed to maintain the fire resistance of fire separating walls and floors when these are breached by plastic pipes, conduits or metal pipes with continuous combustible insulation, and may be used in drywalls, masonry or concrete walls and concrete floors. Each pipe wrap consists of a graphite based reactive intumescent strip, which reacts to heat and closes the opening left by the softening plastic pipe or pipe insulation in a fire. The pipe wrap is installed completely around the pipes or insulation and secured with the self adhesive tab. The annular space around the pipe wrap is sealed with Astro PFP FR EX Mortar or Astro PFP FR Boards.

**Sound Insulation:**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SOUND REDUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Wraps installed in Astro PFP FR Board</td>
<td>55 dB RW</td>
</tr>
<tr>
<td>Pipe Wraps installed in Astro PFP FR EX Mortar</td>
<td>64 dB RW</td>
</tr>
</tbody>
</table>

The sound insulation value is only valid for the fire seal and not for other elements in the building construction. The sound insulation has been tested by the accredited laboratory Exova BM Trada in Great Britain according to EN ISO 10140-2. Test report is available upon request.

**Sizes and Intended Use:**

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>SIZE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>AFPFPWP55</td>
<td>55mm</td>
<td>Plastic pipes &amp; conduits ≤ Ø55mm</td>
</tr>
<tr>
<td>AFPFPWP82</td>
<td>82mm</td>
<td>Plastic pipes &amp; conduits ≤ Ø82mm</td>
</tr>
<tr>
<td>AFPFPWP110</td>
<td>110mm</td>
<td>Plastic pipes &amp; conduits ≤ Ø110mm</td>
</tr>
<tr>
<td>AFPFPWP125</td>
<td>125mm</td>
<td>Plastic pipes ≤ Ø125mm</td>
</tr>
<tr>
<td>AFPFPWP160</td>
<td>160mm</td>
<td>Plastic pipes ≤ Ø160mm</td>
</tr>
<tr>
<td>AFPFPWP200</td>
<td>200mm</td>
<td>Plastic pipes ≤ Ø200mm</td>
</tr>
<tr>
<td>AFPFPWP250</td>
<td>250mm</td>
<td>Plastic pipes ≤ Ø250mm</td>
</tr>
<tr>
<td>AFPFPWP315</td>
<td>315mm</td>
<td>Plastic pipes ≤ Ø315mm</td>
</tr>
</tbody>
</table>

**Availability**

The Astro PFP FR Pipe Wrap come available in many standard sizes to suit eg. 55, 82, 110 & 160mm diameter pipes.

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFPFPWP55</td>
<td>Astro PFP FR Pipe Wrap 55mm</td>
<td>55mm</td>
</tr>
<tr>
<td>AFPFPWP82</td>
<td>Astro PFP FR Pipe Wrap 82mm</td>
<td>82mm</td>
</tr>
<tr>
<td>AFPFPWP110</td>
<td>Astro PFP FR Pipe Wrap 110mm</td>
<td>110mm</td>
</tr>
<tr>
<td>AFPFPWP125</td>
<td>Astro PFP FR Pipe Wrap 125mm</td>
<td>125mm</td>
</tr>
<tr>
<td>AFPFPWP160</td>
<td>Astro PFP FR Pipe Wrap 160mm</td>
<td>160mm</td>
</tr>
<tr>
<td>AFPFPWP200</td>
<td>Astro PFP FR Pipe Wrap 200mm</td>
<td>200mm</td>
</tr>
<tr>
<td>AFPFPWP250</td>
<td>Astro PFP FR Pipe Wrap 250mm</td>
<td>250mm</td>
</tr>
<tr>
<td>AFPFPWP315</td>
<td>Astro PFP FR Pipe Wrap 315mm</td>
<td>315mm</td>
</tr>
</tbody>
</table>

**Quick Overview**

For plastic pipe sizes from smallest pipes available to Ø315 mm with a wide range of pipe wall thicknesses

For metal pipes with continuous combustible pipe insulation

For plastic pipes with cables (conduits)

Pipe wraps comes ready made for most common diameters

Fire classifications up to 240 minutes for both integrity and insulation

Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes

Tested and certified for U/U pipe end applications

Classified for fire sealing in all types of constructions

Excellent sound insulation

No emissions - environmentally and user friendly

Simple to install in both Astro PFP FR Board and Astro PFP FR EX Mortar

Unlimited storage time (under correct conditions)

30 years working life guarantee

**How to order this product**

Please quote:

<table>
<thead>
<tr>
<th>QUANTITY / TRADE NAME / PRODUCT REF / SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR EXAMPLE</td>
</tr>
<tr>
<td>25NO / ASTRO PFP FR PIPE WRAP 55MM / AFPFPWP55 / 55MM</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name** ASTRO WRAP

**INTUMESCENT PIPE WRAPS**

**Product Description**

Intumescent pipe wraps for fire stopping all types of plastic pipes passing through masonry floors and walls. The wraps have been independently fire tested to EN 1366-3 and BS 476 giving a fire resistance of up to 4 hours. Tested in block, concrete and masonry walls and concrete floors.

Designed to provide high volume expansion and pressure sealing using an intumescent composition based on elastomeric thermoplastic polymers and binders. On exposure to fire the pipe wrap expands rapidly inwards to fill the void left by the collapsing plastic pipe until the aperture is completely sealed.

**Availability**

Astroflame Intumescent Pipe Wraps are economical, unaffected by moisture, humidity or frost and easy to fit, but care should be taken when fitting to avoid damaging the outer polythene sleeve.

The product is based on an thermoplastic composite and is non-toxic, Halogen free, contains no asbestos, ceramic, mineral fibres and is mould resistant.

**Quick Overview**

Intumescent Pipe Wraps for PVC, PP, MDPE, HDPE and ABS pipes up to 200mm Fire resistance testing to EN 1366-3 EI 120, and BS 476 240mins

Suitable for wall and floor installation Tested in Block Wall, Concrete and Masonry Tested in Concrete Floors

Long life and is easy to use Certifire 3rd Party Accreditation

**How to order this product**

**PLEASE QUOTE**

QUANTITY / TRADE NAME / PRODUCT REF / SIZE / RATING

**FOR EXAMPLE**

10NO / ASTROWRAP / AFIPW55/4P / 55MM / 2HOUR

Online: [www.astroflame.com](http://www.astroflame.com) phone: 01329 844 500 or email sales@astroflame.com
Trade Name: ASTRO THERMAL FIRE PS

**THERMAL FIRE PIPE SLEEVE**

**Product Description**
A high percentage of the steel, copper and plastic pipes found in commercial and domestic buildings will penetrate through fire rated constructions such as ceilings, floors and walls. Once a hole is made in a fire rated construction for the passage of pipes or services the integrity of the compartment is compromised. To solve this problem AstroFlame have developed Astro Thermal Fire Pipe Sleeve, which reinstates the fire rating of the construction and prevents fire spreading from one compartment to another. In a fire situation the sleeve expands to fill the available space between the pipe and the penetration. In the case of plastic pipes the sleeve will crush and close off the pipe forming a solid char and preventing the passage of fire and smoke to the adjacent compartment. Sleeves have been tested cut flush to the wall for metal pipes only and floor for metal and plastic pipes. Sleeves have also been tested in walls, for plastic pipes, leaving 25mm exposed.

**Availability**
2Hr Rated Pipe Sleeves Length 300mm. Wall thickness 27mm.

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>PRODUCT REF</th>
<th>DIAMETER</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>17mm</td>
<td>AFIPS17/2E</td>
<td>80mm</td>
<td>AFIPS80/2E</td>
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<tr>
<td>21mm</td>
<td>AFIPS21/2E</td>
<td>89mm</td>
<td>AFIPS89/2E</td>
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<tr>
<td>27mm</td>
<td>AFIPS27/2E</td>
<td>102mm</td>
<td>AFIPS102/2E</td>
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<td>34mm</td>
<td>AFIPS34/2E</td>
<td>108mm</td>
<td>AFIPS108/2E</td>
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<td>42mm</td>
<td>AFIPS42/2E</td>
<td>114mm</td>
<td>AFIPS114/2E</td>
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<tr>
<td>48mm</td>
<td>AFIPS48/2E</td>
<td>127mm</td>
<td>AFIPS127/2E</td>
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<tr>
<td>54mm</td>
<td>AFIPS54/2E</td>
<td>140mm</td>
<td>AFIPS140/2E</td>
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<tr>
<td>60mm</td>
<td>AFIPS60/2E</td>
<td>159mm</td>
<td>AFIPS159/2E</td>
</tr>
<tr>
<td>67mm</td>
<td>AFIPS67/2E</td>
<td>169mm</td>
<td>AFIPS169/2E</td>
</tr>
<tr>
<td>76mm</td>
<td>AFIPS76/2E</td>
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<td></td>
</tr>
</tbody>
</table>

**Test Matrix - BS 476 and / or BS EN 1366-3 for 120mins**

<table>
<thead>
<tr>
<th>PIPE MAT</th>
<th>DIAMETER</th>
<th>BLOCK WALL</th>
<th>SOLID FLOOR</th>
<th>MINERAL BATT</th>
<th>PLASTERBOARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>15 - 160mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td>15 - 160mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Mild Steel</td>
<td>15 - 160mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>15 - 160mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Polybutylene</td>
<td>12mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Polybutylene</td>
<td>28mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>55 - 110mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PVC-U</td>
<td>15 - 160mm</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>HDPE</td>
<td>15m - 160mm</td>
<td>*</td>
<td>•</td>
<td>•*</td>
<td></td>
</tr>
</tbody>
</table>

* HDPE 160mm limited to EI90. See website for full specifications or please contact us

<table>
<thead>
<tr>
<th>PIPE MAT</th>
<th>DIAMETER</th>
<th>BLOCK WALL</th>
<th>SOLID FLOOR</th>
<th>MINERAL BATT</th>
<th>PLASTERBOARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>15mm</td>
<td>Eli20 Wall</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Metal</td>
<td>15 - 159mm</td>
<td>Eli20, Eli30min Wall</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>43 - 160mm</td>
<td>Eli20 Wall</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>43 - 110mm</td>
<td>Eli20minwall / floor</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PVC</td>
<td>160mm</td>
<td>E90 Floor</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>HDPE</td>
<td>40 - 110mm</td>
<td>Eli20minwall / floor</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>HDPE</td>
<td>110 - 160mm</td>
<td>E90min wall / Eli20 Floor</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
</tbody>
</table>

**Testing**
Tested on the following pipe sizes to BS 476 Part 20 and BS EN 1366-3 for up to 2 hours.

**BS 476 part 20**
- Copper 12 - 160mm 2 hours
- Stainless Steel 15 - 160mm 2 hours
- Mild Steel 15 - 165mm 2 hours
- Cast Iron 15 - 160mm 2 hours
- PVC 55 - 110mm 2 hours
- PVC 160mm 90 mins
- Polybutylene 12 - 28mm 2 hours
- HDPE 15 - 160mm 2 hours

**EN 1366-3**
- Metal 15mm ElI20 Wall
- Metal 15 - 159mm ElI20, ElI30min Wall
- PVC 43 - 160mm ElI20 Wall
- PVC 43 - 110mm ElI20minwall / floor
- PVC 160mm E90 Floor
- HDPE 40 - 110mm ElI20minwall / floor
- HDPE 110 - 160mm E90min wall / ElI20 Floor

**Quick Overview**
CE Marked
Suitable for fire protecting a wide range of plastic and metal pipes
Tested to BS476: Part 20
Tested to BS EN 1366-3
Up to 2 Hours Fire Rating
Acoustic Tested to BSEN ISO 140-3 and BSEN ISO 717
Maintains thermal insulation for the pipe
For use through a wide range of fire partition walls and floors
Allows for thermal movement of pipe EN13501-1
No additional metal sleeving or lining out of the partition aperture required
Cost effective, can be cut to length

**How to order this product**

**PLEASE QUOTE**
- QUANTITY / TRADE NAME / PRODUCT REF / SIZE / RATING

**FOR EXAMPLE**
- 10NO / ASTROTHERMAL FIRE PS / AFIPS17/2E / 17MM / 2HOUR

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
ASTRO X SERIES PILLOW

FIRE PILLOWS X SERIES

> Product Description

X Series Fire Pillows are designed to provide an effective fire barrier, on a temporary or permanent basis, for services which are subject to frequent changes or replacement. The fire pillows consist of a waterproof glass cloth bag containing organic fillers and intumescent additives.

Pillows can be added, removed or rearranged in an aperture to accommodate to the needs of the situation and have been tested with metallic pipes, cables, cable bunches, cable trays and cable ladders.

Tested in block wall, concrete and masonry walls and concrete floors up to 1m² area and suitable for indoor and outdoor locations, pillows remain flexible between –5°C to +40°C.

Non-toxic, easy to install and with a 25 year lifespan.

> Properties & Specifications

Pillow Dimensions & Usage Guidelines

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FORM SUPPLIED</th>
<th>WEIGHT SUPPLIED</th>
<th>QTY REQUIRED PER M²</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sausage pillow</td>
<td>330x50x20mm</td>
<td>50gms</td>
<td>As Required to fill small voids</td>
<td>AFFPSASX</td>
</tr>
<tr>
<td>Small pillow</td>
<td>330x200x25mm</td>
<td>185gms</td>
<td>180 in Wall or Floor</td>
<td>AFFPSX</td>
</tr>
<tr>
<td>Large pillow</td>
<td>330x200x45mm</td>
<td>385gms</td>
<td>113 in Wall or Floor</td>
<td>AFFPLX</td>
</tr>
</tbody>
</table>

To estimate the number of fire pillow required please refer to the full Installation sheet, which has tables showing quantities required for a range of fire pillow and void sizes.

> How to order this product

Please quote:

<table>
<thead>
<tr>
<th>QUANTITY/TRADE NAME / PRODUCT REF / SIZE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNO / ASTRO X SERIES PILLOW / AFFPLX / LARGE</td>
<td></td>
</tr>
</tbody>
</table>

Online: www.astroflame.com   phone: 01329 844 500   or email sales@astroflame.com
**INTUMESCENT FIRE PILLOWS**

**Trade Name** ASTRO PILLOW

**Product Description**

Our fire pillows are manufactured from a hard wearing specially treated glass cloth filled with a mixture of mineral fibre and reactive expansion (intumescent) agents. On exposure to high temperatures from a fire the intumescent material expands and then hardens to provide a complete and durable seal against the passage of fire, smoke and hot gases. Intumescent Fire Pillows can be used for creating either temporary or permanent fire barriers. The fire pillows are ideal for sealing Cable Trunkings, Small, Medium and Large Cables, Cable Trays, Cable Ladders and Metallic Pipes that penetrate concrete, block, and masonry walls also tested in concrete floors. Suitable for use in telephone exchanges, rooms and other areas where cable services are frequently modified.

Installation types: These intumescent pillows have been independently tested in accordance with BS476: Part 20: 1987 and can provide up to 4 hours fire integrity.

**Quick Overview**

Fire Pillows tested to BS476: Part 20: 1987
EN1026 Air Permeability
EN10140 Acoustic Reduction
Up to 4 hours fire integrity
Available in 4 standard sizes
Easy to install & re-locate
Removable for re-use
For wall floor & ceiling penetrations
Dustproof - safe for the work environment
Certifire Approval

<table>
<thead>
<tr>
<th>SIZE / TYPE</th>
<th>DIMENSIONS</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sausage</td>
<td>300mm x 50mm x 40mm</td>
<td>AFFPSAS</td>
</tr>
<tr>
<td>Small</td>
<td>300mm x 100mm x 40mm</td>
<td>AFFPS</td>
</tr>
<tr>
<td>Medium</td>
<td>300mm x 150mm x 40mm</td>
<td>AFFPM</td>
</tr>
<tr>
<td>Large</td>
<td>300mm x 200mm x 40mm</td>
<td>AFFPL</td>
</tr>
</tbody>
</table>

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF / SIZE</td>
<td>5NO / ASTRO PILLOW / AFFPL / LARGE</td>
</tr>
</tbody>
</table>

**Availability**

Available in 4 standard sizes to enable effective sealing in whatever size or shape of opening either in walls or floors.

**Fire Stop Block**

**Trade Name** ASTRO FS BLOCK

**Product Description**

Fire Stop Block is a unique, compressible and fully intumescent alternative to fire pillows. FS Block can be supplied in up to 1 metre lengths and can be cut to size on site. This ensures maximum flexibility and minimum wastage. The material can be installed within and around various electrical penetrations and provides up to 120 minutes fire rating.

**Quick Overview**

Tested to BS EN 1363-1:1999 for up to 2 hours
Compressible material for simpler installation
Only min. 10% compression required
Can be cut to any required length(s)
Red coating provides easy recognition
Easy to add and remove
Square edges are easy to stack
No overlapping required - lower cost
Can be installed from one side

<table>
<thead>
<tr>
<th>NAME</th>
<th>DIMENSIONS</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro FS Block</td>
<td>30 x 150 x 1000mm</td>
<td>AFFSBLOCK</td>
</tr>
</tbody>
</table>

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO FS BLOCK / AFFSBLOCK</td>
</tr>
</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
FIRE RATED CEILING AIR VALVES

Product Description

The popularity of whole house ventilation and controlled ventilation is increasing. This results in an increased number of penetrations through fire compartment walls and floors producing open pathways for the passage of both smoke and fire. Recessed ceiling air valves are now widely used in both domestic and commercial buildings. Ceilings must be fire protected in accordance with Approved Document B of the Building Regulations. Ceiling air valves, if left unprotected, allow a fire to spread rapidly through a building. Once a hole is made in a ceiling for an air valve, the integrity of the construction and its ability to perform in a fire is reduced significantly. This opening must firestopped to reinstated the original fire rating of the ceiling. Our fire rated ceiling air valve performs this fire stopping function when activated by the heat of a fire.

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>DIAMETER</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTRACT VALVE - 60 Min Fire Rated</td>
<td>80mm</td>
<td>AFFRCV80E</td>
</tr>
<tr>
<td>SMALL</td>
<td>100mm</td>
<td>AFFRCV100E</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>125mm</td>
<td>AFFRCV125E</td>
</tr>
<tr>
<td>LARGE</td>
<td>150mm</td>
<td>AFFRCV150E</td>
</tr>
<tr>
<td>X LARGE</td>
<td>200mm</td>
<td>AFFRCV200E</td>
</tr>
<tr>
<td>SUPPLY VALVE - 60 Min Fire Rated</td>
<td>80mm</td>
<td>AFFRCV80S</td>
</tr>
<tr>
<td>SMALL</td>
<td>100mm</td>
<td>AFFRCV100S</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>125mm</td>
<td>AFFRCV125S</td>
</tr>
<tr>
<td>LARGE</td>
<td>150mm</td>
<td>AFFRCV150S</td>
</tr>
<tr>
<td>XX LARGE</td>
<td>200mm</td>
<td>AFFRCV200S</td>
</tr>
</tbody>
</table>

Quick Overview

Fire rated ceiling air valves - supply and extract types
Maintains the integrity of fire rated floor/ceiling construction for up to one hour
Tested for 60 minutes to BS1365-2:1999 & BS5476: Part 20: 1987
Meets the requirements of Building Regulations Document B
Fits in the same way as a normal air valve
Easy to retro-fit in place of existing valves
Available in 80mm, 100mm, 125mm, 150mm and 200mm diameter in extract or supply versions

Trade Name ASTRO FR CEILING VALVE

How to order this product

For Example
8NO / ASTRO FR CEILING VALVE / SUPPLY / 125 / AFFRCV125S

Quick Overview

DS DUCT SLEEVE

Product Description

The Astroflame range of Astro DS duct sleeves are intended for use where a ventilation duct passes through a fire rated wall. The sleeve maintains the integrity of the fire rated wall which would otherwise be lost. In the event of a fire, the advanced Astro DS Duct Sleeve will expand with the heat, crushing the duct and closing off the hole to the fire for at least 120 minutes except the 220x90mm version which is rated 60mins. The Ventilation duct sleeves are available to fit all common sizes of plastic ventilation duct and are suitable for retro fitting with access only required from one side.

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>LENGTH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duct Sleeve</td>
<td>110mm</td>
<td>54mm</td>
<td>180</td>
<td>AFDS110</td>
</tr>
<tr>
<td>Duct Sleeve</td>
<td>204mm</td>
<td>60mm</td>
<td>180</td>
<td>AFDS204</td>
</tr>
<tr>
<td>Duct Sleeve</td>
<td>220mm</td>
<td>90mm</td>
<td>180</td>
<td>AFDS22090</td>
</tr>
<tr>
<td>Duct Sleeve</td>
<td>234mm</td>
<td>29mm</td>
<td>180</td>
<td>AFDS234</td>
</tr>
<tr>
<td>Duct Sleeve</td>
<td>308mm</td>
<td>29mm</td>
<td>180</td>
<td>AFDS308</td>
</tr>
<tr>
<td>Duct Sleeve Circular</td>
<td>-</td>
<td>100 Diam mm</td>
<td>150mm</td>
<td>AFDS100</td>
</tr>
<tr>
<td>Duct Sleeve Circular</td>
<td>-</td>
<td>125 Diam mm</td>
<td>280mm</td>
<td>AFDS125</td>
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<tr>
<td>Duct Sleeve Circular</td>
<td>-</td>
<td>150 Diam mm</td>
<td>180mm</td>
<td>AFDS150</td>
</tr>
</tbody>
</table>

Quick Overview

CE Marked
Uncapped / Uncapped (Open | Open) fire tested as required for ventilation systems
Suitable for use through a wide range of fire partition walls
Maintains excellent acoustic insulation
Maintains the thermal insulation of the duct through the penetration
Maintains vapour seal of existing insulation
Sleeve can be easily fitted only requiring access from one side

Trade Name ASTRO DS DUCT SLEEVE

How to order this product

For Example
10NO / ASTRO DS DUCT SLEEVE / AFDS204 / 204MM

Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
**ASTRO DUCT SLEEVE + LOW PROFILE**

**Product Description**

The Astroflame range of Astro Low Profile DS Duct Sleeves are intended for use where a ventilation duct passes through a fire rated wall. The sleeve maintains the integrity of the fire rated wall which would otherwise be lost.

The NEW Astro Low Profile Duct Sleeve Plus offers the same industry leading fire performance in a more compact version. Offering 120 Minutes Fire Rating.

In the event of a fire the intumescent material of the duct sleeve expands and crushes the plastic ventilation duct, closing off this route to the fire for up to 120 minutes. Fire test evidence is available for use within 30, 60 and 120 minute wall constructions including a variety of single and double layer plasterboard partitions.

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>LENGTH</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro DS Duct Sleeve Low Profile</td>
<td>110mm</td>
<td>54mm</td>
<td>180mm</td>
<td>AFDS110LP</td>
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<td>60mm</td>
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<td>Astro DS Duct Sleeve Low Profile Circular</td>
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<td>180mm</td>
<td>AFDSC100LP</td>
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<tr>
<td>Astro DS Duct Sleeve Low Profile Circular</td>
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<td>127mm</td>
<td>280mm</td>
<td>AFDSC125LP</td>
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<tr>
<td>Astro DS Duct Sleeve Low Profile Circular</td>
<td>n/a</td>
<td>155mm</td>
<td>280mm</td>
<td>AFDSC150LP</td>
</tr>
</tbody>
</table>

**Quick Overview**

- **CE Marked**
- **Compact Duct Sleeve up to 120 minute rating to EN 1366-3 : 2009**
- **Tested in accordance with EN 13501-1 : 2007**
- **Uncapped / Uncapped (Open | Open) fire tested as required for ventilation systems**
- **Suitable for use through a wide range of fire partition walls**
- **Reduced 10-15mm thickness allows installation at any position in the wall even tight to the floor slab without removing the top side**
- **Product can be slit to allow retrofitting**
- **Sleeve can be easily fitted only requiring access from one side**
- **Product can be slit to allow retrofitting**

**How to order this product**

PLEASE QUOTE

<table>
<thead>
<tr>
<th>QUANTITY / TRADE NAME / PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>10NO / ASTRO DS DUCT SLEEVE + LOW PROFILE / AFDS110LP</td>
</tr>
</tbody>
</table>

Online: [www.astroflame.com](http://www.astroflame.com)  
phone: 01329 844 500  
or email sales@astroflame.com
FIRE RATED PUTTY PADS & CORDS

Supplied in different shapes & forms for multiple application areas
CE marked certified for UK & European markets
Installation is very simple & quick
Stops penetration of both cold & hot smoke
Self-adhesive and very easy to apply without tools
Unaffected by moisture; can be used in wet rooms
Never hardens and ensures a tight fit
Can be reshaped to other sizes if necessary
Provides excellent sound insulation
Environmentally & user friendly - contains no solvents
Contains a low pressure intumescent for optimal fire protection
Working life of at least 50 years
Patented solution (Putty Cord)
90 minutes fire resistance in 100mm & 130mm dry wall construction. Tested to EN 1366-3:2004 in conjunction with additional guidelines from BS:EN 1364-1
Air pressure test up to 1000Pa (pass)

Quick Overview
Supplied in different shapes & forms for multiple application areas
CE marked certified for UK & European markets
Installation is very simple & quick
Stops penetration of both cold & hot smoke
Self-adhesive and very easy to apply without tools
Unaffected by moisture; can be used in wet rooms
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Can be reshaped to other sizes if necessary
Provides excellent sound insulation
Environmentally & user friendly - contains no solvents
Contains a low pressure intumescent for optimal fire protection
Working life of at least 50 years
Patented solution (Putty Cord)
90 minutes fire resistance in 100mm & 130mm dry wall construction. Tested to EN 1366-3:2004 in conjunction with additional guidelines from BS:EN 1364-1
Air pressure test up to 1000Pa (pass)

Product Description
Astro PFP FR Putty seal is an easy to apply fire and sound rated sealant supplied as a non-setting putty. The putty is hand workable, reusable and re-serviceable due to its non-setting properties. The putty is manufactured and supplied in different shapes and forms for different applications.

Putty Pads for sockets
When electrical sockets and switches are installed in dry lining partitions, the original fire rating of the partition is compromised. Fitting Putty Pads will reinstate the fire rating of the partition for up to 90 minutes (depending on the partition fire rating) preventing the passage of smoke, flames, sound and air through the electrical socket.

Putty Cords for fire sealing services
The putty cord is designed to seal small gaps (0-10mm wide) around service penetrations where it is difficult to use traditional intumescent sealant and backers in terms of access and maintaining correct depths of seal.

Putty Pads for water supply boxes
When tap water wall boxes are installed in dry lining partitions, the original fire rating of the partition is compromised. Fitting Putty Pads will reinstate the fire rating of the partition for up to 90 minutes (depending on the partition fire rating) preventing the passage of smoke, flames, sound and air through the electrical socket.

Sound Insulation
Astro PFP FR Putty seal has been tested at BRE (UKAS accredited); according to EN ISO 140-3:1995. Single number quantities were calculated in accordance with EN ISO 717-1:1997. The test report is available upon request.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SOUND REDUCTION</th>
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<tr>
<td>Putty Pads for sockets</td>
<td>Rw 67 dB</td>
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Availability

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<tr>
<td>Astro PFP FR Putty Pad Internal Single</td>
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<td>AFPFPPPPIS</td>
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<tr>
<td>Astro PFP FR Putty Pad Internal Double</td>
<td>230x170mm</td>
<td>AFPFPPPPIDD</td>
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<tr>
<td>Astro PFP FR Putty Pad External Single</td>
<td>180x130mm</td>
<td>AFPFPPPPE5</td>
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<td>Astro PFP FR Putty Pad External Double</td>
<td>230x230mm</td>
<td>AFPFPPPPED</td>
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<tr>
<td>Astro PFP FR Putty Cord</td>
<td>200xØ15mm</td>
<td>AFPFPPPCO</td>
</tr>
</tbody>
</table>

How to order this product

Please quote
QTY / TRADE NAME / SIZE / PRODUCT REF

For example
10NO / ASTRO PFP FR PUTTY PAD / INTERNAL SINGLE / AFPFPPPPIS

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com

INTUMESCENT MASTIC : FIRE RATED SEALANTS & FOAM

Standard construction foams and mastics provide little or no fire resistance. For a range of fire stopping mastics, sealants and foam properties go to page 81
**Trade Name** ASTRO FRA SOCKET BOX INSERT

**FIRE & ACOUSTIC INTERNAL SOCKET BOX INSERT**

**Product Description**

Socket Box Inserts are used to restore the fire rating of a wall otherwise compromised by apertures and gaps following the fitting of socket boxes. This design also restores the acoustic and thermal performance of the wall and its air-tightness. Inserts are quick and easy to fit in comparison with traditional putty pads. Once a hole is made in the wall for a recessed switch or socket box, the integrity of the construction and its ability to perform in a fire can be significantly reduced. The acoustic performance of the wall is also affected and air leakage will increase. A single socket can leak over 3.5 cubic metres of air per hour and the combined air leakage of all the sockets in a room can create significant thermal loss. A correctly fitted insert can almost match the performance of an unpenetrated wall. Acoustic performance is good, being rated at -67dB. In a fire the inserts flanged design ensures that the fire resistant material remains in place to limit the spread of fire through the socket penetration. Astro FRA Socket Box Inserts are designed to fit common plastic / metal single / double socket box sizes. Standard Depth is 35mm. Extra Deep Depth is 47mm.

**Quick Overview**

Easy to install putty pad alternative
Single and Double socket sizes available
Tested to BS EN 1363-1 | BS EN 1364-1 for up to 120 mins
Provides an effective acoustic barrier to both impact and airborne sounds
Prevents or delays fire from entering a wall cavity and attacking the building structure
Simple and fast mechanical fixing, no adhesives, no mess

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTY / TRADE NAME / SIZE / PRODUCT REF</td>
<td>10NO / ASTRO FRA SOCKET BOX INSERT / SINGLE / AFFRASOCSIN</td>
</tr>
</tbody>
</table>

**Trade Name** ASTRO FRA SOCKET BOX COVER

**INTUMESCENT FIRE & ACOUSTIC SOCKET BOX COVER**

**Product Description**

Switch boxes, in walls subject to fire regulations, must be correctly fire protected. Once a hole is made in the wall for a recessed switch or socket box, the fire integrity of the construction is compromised. In addition the wall’s capacity to provide an effective acoustic and thermal barrier is impaired. For timber framed buildings preventing a fire from entering wall cavities and attacking the structure is critical to the overall fire integrity of the building. To combat these fire risks Astroflame has developed a pre-formed socket / switch box cover to provide fire and acoustic protection as an easy fit alternative to conventional putty pads. This restores and maintain fire insulation and integrity in plasterboard walls for up to 120 minutes. In a fire the cover expands, filling all of the available space with a fire resistant highly insulating char. The fire is unable to penetrate the aperture and the socket cover is able to give additional insulation protection to the wall void by reducing the chance of heat build up leading to the ignition of flammable structural members. In a wall with two layers of plasterboard on each face, the ends of the fixing wires can be pushed between the plasterboard layers.

The Socket Cover also reduces the transmission of noise and has a certified acoustic rating. Single internal cover dimensions: 80mm x 80mm x 40mm deep - AFFRASOCS Double internal cover dimensions: 150mm x 80mm x 40mm deep - AFFRASOCD

**Quick Overview**

Easy to install putty pad alternative. Pre-formed covers to fit most electrical switch boxes
Tested to BS 476 Part 20 for up to 120 mins
Tested to BS EN 1366-3 60 minutes (*bespoke size, single EU socket only*)
Prevents or delays fire from entering a wall cavity and attacking the building structure
Can be retro fitted to existing sockets / switches or fitted during wall construction
The switch / socket box can be removed without disturbing or replacing the cover
Effective acoustic barrier to both impact and airborne sounds. Acoustic Rating up to -67 dB

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTY / TRADE NAME / SIZE / PRODUCT REF</td>
<td>10NO / ASTRO FRA SOCKET BOX COVER / SINGLE / AFFRASOCS</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
ASTRO CLAD VENTILATED FIRE BARRIERS

VENTILATED CAVITY BARRIERS

Product Description

Many external wall systems are designed with an open cavity to provide back ventilation. The cavity acts like an open chimney to allow for moisture dissipation and to create a back pressure to repel rain ingress. However in a fire situation this chimney effect creates an open path for the hidden spread of fire both vertically and horizontally behind the external wall system. The Astroflame range of fire rated cavity seals will maintain the ventilated cavity in normal conditions, leaving a continuous free air space, but in the event of a fire, the intumescent ventilated fire barrier will quickly expand to seal off the cavity to prevent the spread of fire.

Ventilated Fire Barriers for Cavities 15mm - 50mm

Many timber framed structures require a continuous ventilated to be maintained to dissipate moisture and prevent damp problems. The Astroflame ventilated fire barriers have been tested in combustible timber constructions and can maintain the minimum 30 minute rating whilst allowing continuous ventilation in normal conditions.

Astro Clad – AFFRCLAD35

Astro Clad – AFFRCLAD35 was designed to maintain a minimum 15mm ventilation gap in timber frame constructions. The product has been successfully fire tested in maximum size cavities of 25mm fitted directly onto combustible breather membrane and fixed into the timber structure to provide at least 30 minutes fire rating. It can additionally achieve greater fire ratings in non-combustible structures.

Size: 35mm x 4mm x1000mm encased in foil
Maximum cavity size, 25mm. Maximum free area, 83%. Fire ratings: Minimum 30 minutes in Timber Structures. 120 minutes in Non-Combustible Structures.

Astro Clad – AFFRCLAD75

Astro Clad- AFFRCLAD75 was developed following an increasing demand for a suitable product to close off larger cavities up to 50mm in timber frame constructions.

The product has been successfully fire tested in cavities up to a maximum of 50mm within both combustible timber structures and non-combustible structures to provide up to 120 minutes fire rating.

Size: 75mm x 6mm x1000mm encased in foil
Maximum cavity size, 50mm. Maximum free area, 87%. Fire ratings: Minimum 30 minutes in Timber Structures, 90 minutes on cement board 120 minutes in Non-Combustible Structures.

Quick Overview

Creates a fire barrier within external wall systems
Suitable for ventilated cavities from 15mm
Tested to BS 476 Part 20 : BS EN 1363-1 or ASFP TGD 19
30-120 minutes rating (depends on substrate)
Horizontal or Vertical use

<table>
<thead>
<tr>
<th>ASSESSSED CONSTRUCTION TYPE</th>
<th>FIRE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIMBER FRAME</td>
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</tr>
<tr>
<td>MASONSRY / CONCRETE</td>
<td>120</td>
</tr>
</tbody>
</table>

TO ORDER ASTRO CLAD SILVER 35MM X 4MM X1000MM AFFRCLAD35

<table>
<thead>
<tr>
<th>ASSESSSED CONSTRUCTION TYPE</th>
<th>FIRE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRICK, BLOCK, MASONRY</td>
<td>120</td>
</tr>
<tr>
<td>AERATED CONCRETE BLOCK</td>
<td>120</td>
</tr>
<tr>
<td>KINGSAN K15 ON CONCRETE</td>
<td>120</td>
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<tr>
<td>KINGSAN K15 ON TIMBER</td>
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<tr>
<td>MIN. FIBRE ON CONCRETE</td>
<td>90</td>
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<tr>
<td>MIN. FIBRE ON TIMBER FRAME</td>
<td>30</td>
</tr>
<tr>
<td>TIMBER FRAME</td>
<td>30</td>
</tr>
</tbody>
</table>

TO ORDER ASTRO CLAD SILVER 75MM X 6MM X1000MM AFFRCLAD75
Astro Clad – AFFRCLAD5050
Astro Clad – AFFRCLAD5050 was designed to provide a large continuous open air space for cavities up to 125mm. The product has been successfully fire tested to a maximum cavity size of 125mm fitted directly onto combustible breather membrane and fixed into the timber structure to provide at least 30 minutes fire rating.

In addition the ventilated fire barrier can be fitted in between phenolic insulation to provide an effective fire barrier.

Size: 50mm x 50mm x 1000mm encapsulated in red polythene. Maximum cavity size: 125mm Maximum free area: 60%. Fire ratings: Minimum 30 minutes in Timber Structures Minimum 30 minutes fitted between Phenolic Insulation.

Astro Clad – AFFRCLADPLUS+
Astro Clad-AFFRCLADPLUS+ offers an effective fire barrier for cavities greater than 50mm. The product has been successfully fire tested for up to 90 minutes fitted directly onto cement board. The product not only offers a superior fire rating but also allows a continuous ventilation space of up to 44mm. This provides excellent ventilation behind the external wall system, whilst leaving enough free space for the installer to easily install the cladding panels after the ventilated fire barrier seal.

Finish: Encapsulated in red polythene
Size: Customer specifies the required depth based on formula below

75mm x 1000mm x Total Cavity Width minus 44mm (Custom Depth) Maximum Air Gap: 44mm. Fire ratings: 90 minutes fixed to cement board.

> How to order this product

**PLEASE QUOTE**
Quantity/Trade Name/Product Ref

**FOR EXAMPLE**
10NO / ASTRO CLAD / AFFRCLADPLUS+

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
CAVITY FIRE BARRIER ROLL

> Cavities are created in many wall constructions to aid thermal insulation performance and to provide a moisture barrier. Such constructions are common in residential, public and commercial buildings. Completely closing the cavity, for example with solid cavity barriers, can detract from its performance and can result in both thermal and moisture bridging and potential structural damage.

These wall cavities can form unrestricted chimneys which, if left unprotected, can allow fire to spread both vertically and horizontally around a building. Cavities are subject to Building Regulations and most should be fitted with fire barriers to prevent the spread of fire via the open cavity.

To combat this Astroflame as part of its continuing development of passive fire protection solutions has developed a Cavity Fire Barrier On a Roll.

Note: Only suitable for use behind brickwork/blockwork external walls. See VENTILATED FIRE BARRIERS for compatible fire barriers with alternative wall systems.

75mm wide x 4mm thick x 6.3 metres long. Product Ref: AFCFBR75

> Quick Overview

Tested to BS 476 Part 20
30 Minutes Fire Rating
For cavities up to a nominal 50mm
Suitable for timber frame & masonry cavities
Prevents thermal & moisture bridging
Reduces the need for unsightly ventilation and drainage apertures
Low Profile Design
Prevents pushing out of bricks
Compact Roll

> How to order this product

PLEASE QUOTE
QUANTITY / TRADE NAME / PRODUCT REF
FOR EXAMPLE
5NO / ASTRO CAVITY FIRE BARRIER / AFCFBR75

INTUMESCENT EXPANSION JOINT SEALS

> Product Description

All expansion and movement joints in a fire separating wall and floor must be fire stopped with a material that will accommodate the necessary degree of fire integrity. Astroflame Intumescent Expansion Joint Seal is an elastomeric foam laminated with a graphite-based, intumescent compound on both sides. It is designed to perform as a fire barrier in construction movement joints, when tested to BS 476 Part 20: 1987. Designed for long linear joint installations in both horizontal and vertical applications it is a flexible and water resistant seal that expands when exposed to heat.

The carbonaceous char formed by the graphite prevents the spread of fire through the joint thus ensuring the integrity of the compartment wall/floor is maintained. Sold individually in metre lengths.

> Availability

120 Minute Fire Integrity

<table>
<thead>
<tr>
<th>GAP SIZE</th>
<th>DIMENSIONS</th>
<th>INTEGRITY</th>
<th>INSULATION</th>
<th>PRODUCT CODE</th>
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</thead>
<tbody>
<tr>
<td>Up to 10mm</td>
<td>12 x 12mm</td>
<td>120 minutes</td>
<td>120 minute</td>
<td>AFEJ10/120</td>
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<tr>
<td>11 – 20mm</td>
<td>29 x 12mm</td>
<td>120 minutes</td>
<td>30 minutes</td>
<td>AFEJ20/120</td>
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<td>21 – 25mm</td>
<td>32 x 20mm</td>
<td>120 minutes</td>
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<td>AFEJ25/120</td>
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<tr>
<td>26 – 35mm</td>
<td>53 x 20mm</td>
<td>120 minutes</td>
<td>60 minutes</td>
<td>AFEJ35/120</td>
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<tr>
<td>36 – 50mm</td>
<td>61 x 35mm</td>
<td>120 minutes</td>
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<td>AFEJ50/120</td>
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<td>51 – 65mm</td>
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<td>AFEJ60/120</td>
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<td>66 – 75mm</td>
<td>90 x 50mm</td>
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<td>AFEJ75/120</td>
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<td>76 – 100mm</td>
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<td>120 minutes</td>
<td>AFEJ100/120</td>
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<td>101 – 120mm</td>
<td>147 x 125mm</td>
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<td>121 – 150mm</td>
<td>170 x 100mm</td>
<td>120 minutes</td>
<td>120 minutes</td>
<td>AFEJ150/120</td>
</tr>
</tbody>
</table>

> Quick Overview

Fire Rated Expansion Joint Seal / Linear Joint Seal
Available up to 150mm gap size
Joint movement capability of +/- 25%
Tested in accordance with BS 476 Part 20: 1987
IET (IEE) 17th Edition Fire Stop Compliant to Regulation 527.1-3 - Electrical Installations
BS 7671-2008 Chapter 42 & 52 - Electrical Installations Fire Resistance
Acoustic Isolation to EN 10140 to 22dB
Air Permeability testing to EN 1026 to 600Pa - 100Pa 3.3/17 m3/h/m2 with FLEXI COAT
Highly flexible and water resistant
Tested in block wall, concrete and masonry
Tested in concrete floors
Tested in linear joints up to 150mm wide
Halogen free, resists fungi and vermin
Maintenance free

> How to order this product

PLEASE QUOTE
QUANTITY/TRADE NAME/PRODUCT REF/SIZE (WIDTH MM)/FIRE INTEGRITY RATING
FOR EXAMPLE
10NO / ASTRO EJ SEAL / AFEJ20/120 / 20MM / 120 MINS

Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
HS FM COMPOUND

> Product Description

Astro HS FM Compound is a one-part synthetic mortar used to seal openings in walls and floors to prevent the passage of fire and smoke.

It is mixed with water to produce a trowelable or pourable mortar compound. The seal created is high strength and non combustible, with a fire resistance to EN 1366-3 2009 at 100mm thickness and it can be made load bearing. Astro HS FM Compound is supplied in 20kg bags.

> Quick Overview

- Fire resistance 120 mins @ 100mm thickness - BS476
- EI 60 mins @ 100mm thickness - EN1366-3
- E 120 mins, EI 60 @ 100mm thickness - EN1366-3
- Acoustic isolation 46dB expected
- Tensile Strength 3N/mm²
- Load Bearing - up to 10.29 kN/mm² (1000mm span)
- Can be used in spans up to 2 metres wide
- Can be reactivated with water to extend the working time

> How to order this product

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO HIGH STRENGTH FIRE COMPOUND 20KG / AFFCHS</td>
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</tbody>
</table>

> Trade Name ASTRO FM COMPOUND

FIRE RESISTANT MORTAR

> Product Description

A one part synthetic mortar which when mixed with water produces a trowelable or pourable compound suitable for the sealing of openings in walls and floors to prevent the passage of fire and smoke. The seal is strong, non combustible, can be made load bearing. Mortar has fire resistance to EN 1366-3 and BS 476 : part 20 - 240mins. Up to 4 hours at 100mm thickness, 2 hours at 75mm thickness and 1 hour at 50mm thickness. Additional services can be easily added through the mortar and resealed with further mortar. Where plastic pipes pass through the mortar, Astroflame Pipe Wraps should be used. Tested to BS476: Part 20 Astroflame Fire Resistant Mortar can provide up to 4 hours fire resistance depending on depth/width. Load bearing up to 5kN and suitable up to spans of 4700mm. Life expectancy of over 25 years. Free of halogens, asbestos, fibres and silica and is non toxic. Available in 20kg bags.

> Quick Overview

- Suitable for fire protecting large openings in floors and walls
- Fire Resistance testing to EN 1366-3 EI 60, E 90, BS 476 : Part 20 - 240mins
- Fire Classification EN 13501-2
- Load bearing for up to 5kN
- For use in floors & walls
- Acoustic Isolation testing to EN 10140 to 44dB
- Air Permeability testing to EN 1026 to 600Pa

> How to order this product

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT CODE / WEIGHT</td>
<td>20NO / ASTRO FM COMPOUND / AFFC / 20KILO</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FIRE RESISTANT MORTAR

ASTRO PFP FR EX MORTAR

**Trade Name**
ASTRO PFP FR EX MORTAR

**Product Description**
Astro PFP FR EX Mortar is a dry white powder consisting of inorganic compounds and perlite. When mixed with water, the compounds form a highly thermally insulating fire sealing compound to prevent the spread of fire and smoke through openings in fire rated walls and floors, including openings formed around building service penetrations. Astro PFP FR EX Mortar will also maintain the acoustic design performance in walls and floors. Astro PFP FR EX Mortar expands approx. 1% by hydraulic action during curing ensuring a very tight seal around the service penetrations and the surrounding opening apertures.

Astro PFP FR EX Mortar is easy to sand or drill. The compound dries to an off-white colour which may be painted.

**Quick Overview**
Classified in walls and floors of concrete, brick, gypsum etc.
Suitable for cables, bundled cables, cable racks, cable trays, steel, copper, alupex, plastic pipes and air ventilation ducts

**How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>25NO / ASTRO PFP FR EX MORTAR - BAGS / AFPFPEXMB</td>
</tr>
</tbody>
</table>

FIRE RESISTANT BOARDS

**Trade Name**
ASTRO PFP FR BOARDS

**Product Description**
The Astro PFP FR Board is designed to prevent the spread of fire and smoke through openings in fire rated walls and floors where openings are formed to allow the installation of multiple building services. It will also maintain the acoustic design performance in fire rated walls and floors.

The Astro PFP FR Board consists of a high density stone wool core, over-coated with Astro PFP FR Coating. The top coating provides additional protection by significantly reducing the permeability of the stone wool core and preventing the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

Astro PFP FR Board is available coated on one or two sides, depending on the seal design to provide the required fire resistance. On site, Astro PFP FR Board must be used together with Astro PFP Acrylic for sealing around building services, joints and edges of the FR Board and the surrounding construction.

**Quick Overview**
Classified for all types of constructions with or without building service penetrations
Simple and very quick to install
Easy to retrofit additional building services after installation
Permanently flexible - will accommodate movements during fire and smaller movements in the construction it has been fitted within
May be used in unlimited lengths in walls with heights up to 1200 mm and in floors with widths up to 800 mm
May be installed in gypsum walls with or without framing around the opening and can be patress fitted
Halogen free with added fungicides

**Availability**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SIZE</th>
<th>Product Ref</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro PFP FR Boards</td>
<td>50 x 600 x 1200 mm</td>
<td>AFPFPB50</td>
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<tr>
<td>Astro PFP FR Boards</td>
<td>60 x 600 x 1200mm</td>
<td>AFPFPB60</td>
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**How to order this product**

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</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF / SIZE</td>
<td>20 / ASTRO PFP FR BOARDS / AFPFPB50 / 50X600X1200MM</td>
</tr>
</tbody>
</table>
**Trade Name** ASTRO PFP FR COATING

**ABLATIVE SEALANT COATING**

**Product Description**

Astro PFP FR Coating spray grade, is an ablative sealant coating designed to enhance, seal and fire protect stonewool fibres in Astro PFP FR Boards. It is based on a durable polymer system with inert fillers, non-halogenated fire retardants and a preservative to resist microbial attack.

Astro PFP FR Coating is designed to be applied via spraying directly onto stonewool fibres. The coating dries to give a sound, flexible white surface finish. During installation of Astro PFP FR Boards, the cured sealant coating reduces de-lamination and increases surface stability for adhesive and fixing sealant application.

The ablative property of the coating resists flame spread and protects the stone wool fibres against fire penetration by significantly reducing the permeability of the stone wool fibre core and prevents the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

Astro PFP FR Boards coated with Astro PFP FR Coating are designed to prevent the spread of fire and smoke through openings in fire rated walls and floors, also where openings are formed to allow the installation of multiple building services. The system will also maintain the acoustic design performance.

**Quick Overview**

- For use with Astro PFP FR Board system
- Easy to retrofit additional building services after installation
- Non Toxic & Emission Free not harmful to you
- Permanently flexible - will accommodate movements during fire and smaller movements in the construction it has been fitted within
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastics and most non-porous surfaces
- Once fully cured, the coated board resists water and frost

**How to order this product**

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</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>25NO / ASTRO PFP FR COATINGS / AFPFPC</td>
</tr>
</tbody>
</table>

**Trade Name** ASTRO BATT

**FIRE RESISTANT BATT**

**Product Description**

Specifically designed for sealing around service penetrations in walls and floors, a single Astroflame board (50mm or 60mm thick) can provide high levels of fire integrity and insulation. Tested in Block Wall, Concrete, Masonry and Plasterboard Partition. Tested in Concrete Floors. Offering up to 4 hours fire resistance in accordance with BS476: Part 20: 1987 and EN 1366-3 : 2009. Up to Rw 48dB sound reduction achieved by using two boards.

Astroflame Boards consist of a stone fibre core coated on both sides with Astro Coat which transforms during a fire to prevent the passage of fire and smoke and the transfer of heat.

ASTRO BATT cut edges or joints should be coated with ASTRO COAT or ASTRO MASTIC.

**Quick Overview**

- For use with Astro PFP FR Board system
- Easy to retrofit additional building services after installation
- Non Toxic & Emission Free not harmful to you
- Permanently flexible - will accommodate movements during fire and smaller movements in the construction it has been fitted within
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastics and most non-porous surfaces
- Once fully cured, the coated board resists water and frost

**Availability**

<table>
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<tr>
<th>ITEM</th>
<th>SIZE</th>
<th>DENSITY</th>
<th>PRODUCT REF</th>
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</thead>
<tbody>
<tr>
<td>Astro Batt</td>
<td>600mm x 1200mm x 50mm</td>
<td>140KGM³</td>
<td>AFB1200DC50</td>
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<tr>
<td>Astro Batt</td>
<td>600mm x 1200mm x 60mm</td>
<td>160KGM³</td>
<td>AFB1200DC</td>
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**How to order this product**

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<tbody>
<tr>
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<td>20 / ASTRO BATT (50MM) / AFB1200DC50 / 140KGM³</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
> **Trade Name** ASTRO PENETRATION SEAL COATING

**BATT COATING SPRAY GRADE**

> **Product Description**

Astro Penetration Seal Coat is a thicker formulation, for brush application, to coat plain stone wool as it is being installed by the user: it can also be be applied to insulation already in place on the services, adding to the fire resistance of the seal.

It prevents the passage of fire, air and sound between fire rated compartments and has been tested in block wall, concrete, masonry, plasterboard partition and concrete floors.

At normal temperatures the coating remains flexible to permit thermal and mechanical movement of services and the building structure.

Astro Penetration Seal Coat has been tested to EN1366-3 EI60 when applied to pre-fitted stone fibre equal or greater than 140kg/m² density and equal or greater than 50mm thickness.

> **Quick Overview**

CE Marked, UL-EU Listed & Certifire Approval
Fire Resistance Testing to EN 1366-3 : 2009
Fire Classification to EN 13501-2
Fire Resistance Testing to BS 476 Part 20 : 1987
Air Permeability testing to EN 1026
Acoustic Isolation testing to EN 10140
Remains flexible between -5°C to +40°C
Easy to use fibre free coating
Suitable for large openings in walls and floors with additional supports
Life expectancy of over 25 years

> **How to order this product**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO PENETRATION SEAL / AFSPTCOAT5L</td>
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</tbody>
</table>

> **Trade Name** ASTRO PS COAT

**PENETRATION SEAL COATING**

> **Product Description**

Astro Penetration Seal Coat is a thicker formulation, for brush application, to coat plain stone wool as it is being installed by the user: it can also be be applied to insulation already in place on the services, adding to the fire resistance of the seal.

It prevents the passage of fire, air and sound between fire rated compartments and has been tested in block wall, concrete, masonry, plasterboard partition and concrete floors.

Astro PS Coat is a water-based, acrylic, ablative coating with excellent fire, air permeability and elastomeric properties.

At normal temperatures PS Coating remains flexible to permit thermal and mechanical movement of services and the building structure.

Astro PS Coat has been tested to EN1366-3 EI60 when applied to pre-fitted stone fibre equal or greater than 140kg/m² density and equal or greater than 50mm thickness.

> **Quick Overview**

CE Marked, UL-EU Listed.
Fire Classification to EN 13501-2.
Air Permeability testing to EN 1026.
Acoustic Isolation testing to EN 10140.
Remains flexible between -5°C to +40°C.
Easy to use fibre free coating.
Suitable for large openings in walls and floors with additional supports.
Life expectancy of over 25 years.

> **How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
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</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>10NO / ASTRO PS COAT / AFSPTCOAT</td>
</tr>
</tbody>
</table>
FIRE RESISTANT FLEXIBLE COATING

**> Product Description**

Flexi-Coat is an ablative, highly advanced highly flexible coating for used to apply to uncoated stonewool boards to reinstate the fire resistance performance of wall and floor constructions where apertures are penetrated by single or multiple services. Flexi-Coat has been designed to be used in application where movement accommodation of +/- 25% is required. Flexi-Coat is idea for slab edge applications and movement seals.

Flexi-Coat is tested and Certified as part the Astroflame Fire Stopping range. When Flexi-Coat is applied to uncoated stonewool of the correct density it can be installed across a variety services and substrates.

**> Quick Overview**

- Up to 2 hours fire resistance
- Smoke, acoustic, air and water barrier
- Offers 25% joint flexibility between -5 to +40 °C
- Tested in accordance with EN1366-3 : 2009
- Tested in accordance with EN1366-4 : 2009
- Fire Classification EN 13501-2
- Acoustic Isolation EN 10140
- Air Permeability EN 1026
- Water Permeability EN 1027
- Prevention of air leakage
- Ideal for slab edge applications and movement seals
- Ideal for spray, brush & pourable application
- Certifire Approval
- UL-EU Listed
- CE Marked

**> How to order this product**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>SNO / ASTRO FLEXI COAT SEAL / AFBFLEXICOAT</td>
</tr>
</tbody>
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ASTRO FLEXI-COAT SEAL

**> Product Description**

Flexi-Coat is an ablative, highly advanced highly flexible coating for used to apply to uncoated stonewool boards to reinstate the fire resistance performance of wall and floor constructions where apertures are penetrated by single or multiple services. Flexi-Coat has been designed to be used in application where movement accommodation of +/- 25% is required. Flexi-Coat is idea for slab edge applications and movement seals.

Flexi-Coat is tested and Certified as part the Astroflame Fire Stopping range. When Flexi-Coat is applied to uncoated stonewool of the correct density it can be installed across a variety services and substrates.

**> Quick Overview**

- Up to 2 hours fire resistance
- Smoke, acoustic, air and water barrier
- Offers 25% joint flexibility between -5 to +40 °C
- Tested in accordance with EN1366-3 : 2009
- Tested in accordance with EN1366-4 : 2009
- Fire Classification EN 13501-2
- Acoustic Isolation EN 10140
- Air Permeability EN 1026
- Water Permeability EN 1027
- Prevention of air leakage
- Ideal for slab edge applications and movement seals
- Ideal for spray, brush & pourable application
- Certifire Approval
- UL-EU Listed
- CE Marked

**> How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT REF</td>
<td>SNO / ASTRO FLEXI COAT SEAL / AFBFLEXICOAT</td>
</tr>
</tbody>
</table>

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ASTRO PUTTY

**> Product Description**

Astroflame fire putty is a solvent free, easy to use, non-setting fire resistant compound, which is ideal for sealing around pipes and cables in walls and floors. Tested to EN1366-3 on C1, C2 and DI Type Cables. Causes no known detrimental effects to plastic pipes, plastic cables, sheathing or metallic components. Can accommodate substantial movement of service penetrations. The flexibility of the putty enables complex and irregular shapes and openings to be fire stopped. Offers excellent hot and cold smoke sealing properties and is not affected by fungal attack or moisture. Ideal for electrical, telecommunications and other such industries. Astroflame fire putty has been independently tested in accordance with BS476: Part 20: 1987 and EN1366-3 and can provide up to 4 hours fire resistance depending on depth and volume. Tested in block wall, concrete, masonry and plasterboard partition. Tested in concrete floors.

**> Quick Overview**

- Fire Putty with fire resistance testing to EN 1366-3 EI 120, and BS 476 240mins.
- Fire Classification to EN 13501-2
- Certifire 3rd Party Accreditation
- Acoustic Isolation to EN 10140 to 65dB
- Tested with metallic pipes and cables
- Fills irregular shapes
- Highly flexible and water resistant
- Halogen free, resists fungi and vermin

**> How to order this product**

<table>
<thead>
<tr>
<th>PLEASE QUOTE</th>
<th>FOR EXAMPLE</th>
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</thead>
<tbody>
<tr>
<td>QUANTITY / TRADE NAME / PRODUCT CODE / WEIGHT</td>
<td>12NO / ASTRO PUTTY / AFIP / 1KILO</td>
</tr>
</tbody>
</table>

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
LIGHTING PROTECTION

Lighting holes in a ceiling is a potential fire hazard. Plaster board ceilings have a natural ability to act as a fire barrier. In any building where people maybe living or working above, the ceiling below must be fire rated. Astroflame’s range of fire rated lighting products are used to restore the fire integrity of a ceiling.

In the event of a fire, the holes in the ceiling act like a gateway that allows fire to spread through, unchallenged. Once the fire starts to spread through this hole it has direct access to the adjoining structure. Astroflame’s range of fire rated lighting products help seal off the hole and slow down the spread of fire.

This delay allows occupants to escape the building or ideally allows additional time for the fire to be extinguished. Astroflame’s range of fire rated lighting products have a rating up to 60 minutes (depending on the structure of the building and more importantly how many floors it has). The Electrical Safety Council (ESC) recommends that fire rated lighting products should be used in all ceilings, regardless of which type of building they are being installed in.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
FIRE RATED LOFT CONE

Product Description

Recessed downlights are a common feature in many homes, however they also represent a potential fire hazard, especially if buried in loft insulation. Numerous house fires have been caused by the ignition of combustibles in ceiling spaces caused by hot downlights being covered with insulation.

The Astro LC Loft Cone are designed to provide a fire resistant solution and overcome thermal and vapour transmission into loft voids when installing recessed lights. The “F-capped” Approved Loft Cone maintains sufficient space around the fitting to allow continuous insulation to be laid directly over light fittings minimising overheating or fire risk.

Quick Overview

F-Capped Flanged Fire Hood 30 minute fire rated
Tested for 50 Watt lamps
Tested to BS EN 60598.1 and 60598.2.2 with 50 Watt Dichroic Lamps and approved to be fully buried in insulation
BS 476 Part 20 : 1987
Airtightness tested to BS EN 1026 for maximum thermal efficiency
Tested to BS EN 1363-1 and in accordance with BS EN 1364-2
Easily fitted - simply drop over light fitting and seal with mastic to form vapour seal
Save energy by limiting heat loss into loft space
Allows continuous insulation over lights
Fully tested to prevent overheating
Reduces fire risk by keeping combustibles away from hot downlight
Rigid and capable of supporting loft insulation away from light fitting

Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>PRODUCT REF</th>
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</thead>
<tbody>
<tr>
<td>Loft Cone</td>
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<td>AFLFTCON</td>
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</table>

How to order this product

FOR EXAMPLE
12NO / ASTRO LC LOFT CONE / AFLFTCON

LUMINAIRE COVER

Product Description

Recessed luminaires or modular light fittings are widely used in commercial buildings. Each ceiling is subject to fire regulations and where applicable the ceiling construction needs to be fire rated. When a ceiling tile is replaced by a recessed luminaire, the integrity of the ceiling’s construction and its ability to perform in a fire are reduced significantly. To combat this Astroflame, as part of its continuing development of passive fire protection solutions, has developed a Recessed Luminaire Cover for use in 60 minute fire rated ceilings.

Quick Overview

BS 476 Part 23:1987 - 60 minute fire rating
Restores and maintains the fire protection performance of the ceiling
Simple to fix above or below ceiling - in minimal time
No clips, screws, drilling or additional support required
Sizes to fit a wide range of modular 600 x 600mm and 1200 x 600mm fittings
Lightweight: 1.5 - 2.5 kg. Cost effective

Availability

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SIZES</th>
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<tbody>
<tr>
<td>Square</td>
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<tr>
<td>Rectangular</td>
<td>1200 x 600 mm</td>
<td>AFLUMICOVL</td>
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</table>

How to order this product

FOR EXAMPLE
10NO / ASTRO LUMICOVER / AFLUMICOV5
**INTUMESCENT ACOUSTIC RATED DOWNLIGHTER COVER**

**Trade Name** ASTRO DL COVER

**Product Description**

Downlighters in ceilings are widely used in commercial buildings. Each ceiling is subject to fire regulations and where applicable the ceiling construction needs to be fire rated. However, once a hole has been made in the ceiling for a downlighter, the integrity of the construction and it’s ability to perform in a fire can be reduced significantly. To combat this the Astro Downlighter Cover has been developed to cover maximum protection for holes created by the introduction of a downlighter and to allow for maximum ease of fitting. In a fire situation the cover expands internally to fill all the available space with a highly insulating fire resistant char. Thus, the fire is unable to penetrate the hole and the cover is able to give additional insulation protection to the ceiling void to reduce the chance of heat build up and ignition of flammable materials such as accumulated dust and insulation.

**Availability**

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
<th>SIZE</th>
<th>MAX FITTING SIZE</th>
<th>CUTOUT DIAM. MM</th>
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<tbody>
<tr>
<td>AFDLCOVS</td>
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<tr>
<td>AFDLCOVM</td>
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<td>200 x 200</td>
<td>75 - 100</td>
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<tr>
<td>AFDLCOVL</td>
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<td>250 x 250</td>
<td>100 - 140</td>
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<tr>
<td>AFDLCOVXL</td>
<td>X-Large</td>
<td>300 x 170</td>
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<tr>
<td>AFDLCOVXXL</td>
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<td>145 - 270</td>
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</table>

**Quick Overview**

**How to order this product**

**FOR EXAMPLE**

10NO / ASTRO DL COVERS / AFDLCOVS / SMALL

**Trade Name** ASTRO LUMI CANOPY

**Product Description**

Astroflame Luminaire Canopies stop the passage of fire and smoke, for up to 60 mins, through luminaire light fittings in a fire rated ceiling. Without the fire rated canopy in place, fire and smoke will penetrate the recessed light fitting in seconds and spread into the void or room above endangering lives and property. The Astro Lumi Canopy provides 60 minutes fire protection by completely containing the fire and smoke within the cover. In normal (non-fire) conditions the heat from the light fitting can dissipate through the canopy fabric. The fire canopies are easy to fit from either side of the ceiling and need no additional supports. They can also be easily removed and replaced for lighting maintenance. Fully tested to BS Standard 476 part 20 & 23 clause 5. Astro Lumi Canopy also meets the requirements of class 0 materials.

**Availability**

<table>
<thead>
<tr>
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<th>WEIGHT</th>
<th>SIZE</th>
<th>PRODUCT REF</th>
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<td>AFLUMICANM</td>
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<td>Large</td>
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<tr>
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<tr>
<td>1200mm x 600mm x 150mm</td>
<td>1.8 kg</td>
<td>XX Large</td>
<td>AFLUMICANXXL</td>
</tr>
</tbody>
</table>

**Quick Overview**

**How to order this product**

**FOR EXAMPLE**

10NO / ASTRO LUMICANOPY / AFLUMICANL / LARGE

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
FIRE RATED MASTIC SEALANTS & EXPANDING FOAMS

Standard construction foams and mastics provide little or no fire resistance. The Astroflame range of products are used where fire stopping properties are required, for example, mastic sealing around other fire rated products and foam for gap filling.

Where reduced noise transmission is required some of these products have good acoustic properties.

The Low Smoke & Toxicity Sealant is specially formulated for use in passenger tunnels and similar situations where the fire stopping intumescent should not create additional smoke or toxicity hazards for evacuees or emergency services.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
> Trade Name  ASTRO PFP FR ACRYLIC

**FIRE RATED MASTIC**

> Product Description

Designed to prevent the spread of fire and smoke through joints and openings in fire rated walls and floors (including openings formed around building service penetrations); the Astro PFP FR Acrylic will also maintain the acoustic design performance. When subjected to atmospheric conditions, the sealant cures however, it will retain a degree of elasticity for joint movement.

Under fire exposure, the Astro PFP FR Acrylic creates a robust fire seal by the formation of a durable intumescent char. The Astro PFP FR Acrylic can be used with a suitable filling material i.e. stone wool or Astro PFP FR backing material in order to secure correct width to depth ratio, and to reduce the shrinking of the sealant during curing. Minimum depth and maximum width of the joints are included in the installation instructions. Thermal activation takes place at approx. 180°C when the material will expand (intumesce) and prevent the passage of fire and smoke for periods up to and beyond 4 hours.

> Availability

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>COLOUR</th>
<th>PRODUCT REF</th>
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</thead>
<tbody>
<tr>
<td>Astro PFP FR Acrylic</td>
<td>310ml cartridge</td>
<td>White</td>
<td>AFPPACW</td>
</tr>
</tbody>
</table>

> How to order this product

FOR EXAMPLE
25NO / ASTRO PFP FR ACRYLIC / AFPPACW

> Quick Overview

High end formula, certified worldwide.
Classified for fire sealing all types of construction and building service penetrations.
Very high sound insulation.
Low emissions - environmentally and user friendly.
Simple to apply with a smooth surface finish.
Permanently flexible - will accommodate movement up to 12.5%.
No priming necessary for application to most materials.

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> Trade Name  ASTRO INTU MASTIC

**INTUMESCENT ACOUSTIC MASTIC**

> Product Description

A one part intumescent acrylic mastic for sealing gaps around fire doors, window frames and for sealing joints, voids and irregular holes in fire rated structures. The sealant forms a char, preventing the passage of fire and smoke, when exposed to the heat of a fire. Tested around metallic pipes, cable trays, cable bunches, small, medium and large cables. Tested in Block Wall, Concrete, Masonry and Plasterboard Partition. Suitable for flexible walls, rigid walls & floors. Tested in Linear Joints up to 60mm wide. Tested in large service openings up to 490 x 150mm.

Tested for sealing of linear joints in concrete floors, masonry walls and plasterboard including head of wall details up to 60mm. Sealant remains flexible after installation. The mastic has been independently tested in accordance with BS476 and EN requirements.

It has good unprimed adhesion to a wide variety of common building substrates. although we do recommend that a small area is tested on unusual substrates. Available in 310ml cartridges or 600ml foil packs, in white, brown or grey colours. For additional information about classification on different gap widths and depths using various substrates please contact us or view our website.

> Availability

<table>
<thead>
<tr>
<th>PRODUCT REF</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>AFIMB</td>
<td>Brown</td>
<td>310ml</td>
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<tr>
<td>AFIMG</td>
<td>Grey</td>
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<tr>
<td>AFIMWFOIL</td>
<td>White</td>
<td>600ml</td>
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</tbody>
</table>

600ml Foils in a Brown or Grey colour available P.O.A

> How to order this product

FOR EXAMPLE
100NO / ASTRO INTU MASTIC / AFIMB / 310ML

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name** ASTRO HPE SEALANT

**HIGH PRESSURE EXPANSION SEALANT**

**Product Description**

Astro HPE Sealant is an acrylic based graphite sealant used to reinstate the fire resistance performance of wall and floor constructions where they have been provided for the penetration of single or multiple services, to form penetration seals where gaps are present.

Astro HPE Sealant expands upon contact with heat, also known as intumescent or reactive material Astro HPE Sealant is supplied within 310ml cartridges and 600ml foils. The sealant is gunned or trowelled into the annular space in or between the separating element/elements to a specific depth utilising backing materials.

For additional information about classification on different gap widths and depths using various substrates please contact us or view our website.

**Quick Overview**

Suitable for use in rigid wall and floors, flexible wall and within bats wall and floor. Large service openings up to 300 x 100mm. Tested in accordance with EN 1366-3 : 2009. Metallic Pipes, Cables, Cable Bunches (inc Telecommunication), Cable Trays and Cable Ladders. Combustible Pipes up to 125mm dia - PVC, PE, PP, ABS and PEX. Can be used on various pipe insulation types. Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components. Easy clean up with water and is odourless. Smoke, gas and air tight. High Expansion Ratio. Mould Resistant.

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>COLOUR</th>
<th>PRODUCT REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astro HPE Sealant</td>
<td>310ml cartridge</td>
<td>Grey only</td>
<td>AFHPESG</td>
</tr>
</tbody>
</table>

**How to order this product**

FOR EXAMPLE

10NO / ASTRO HPE SEALANT / AFHPESG

---

**Trade Name** ASTRO LST MASTIC

**LOW SMOKE & TOXICITY INTUMESCENT MASTIC SEALANT**

**Product Description**

A water based acrylic sealant designed to resist the passage of fire, by forming a char that prevents the passage of fire and smoke, while maintaining excellent low smoke and toxicity levels. Astro LST Mastic is halogen free and does not emit halogenated by-products under fire conditions. High performance fire resistance rating with joint movement capabilities. Highly flexible and it has good unprimed adhesion to a wide variety of common building substrates. Tested in Block Wall, Concrete, Masonry and Plasterboard Partition. Tested in Concrete Floors. Tested in gaps up to 60mm wide. In normal use it maintains the sound reduction index of a structure. Mould resistant. This sealant contains no raw materials known to have an estrogenic effect in the environment.

For additional information about classification on different gap widths and depths using various substrates please contact us or view our website.

**Quick Overview**


**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<th>PACK SIZE</th>
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<th>PROD REF</th>
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<td>Astro LST Mastic</td>
<td>310ml cartridge</td>
<td>12 per pack</td>
<td>White Only</td>
<td>AFIMLST</td>
</tr>
</tbody>
</table>

**How to order this product**

FOR EXAMPLE

2 PACKS / ASTRO / AFIMLST

---

Online: [www.astroflame.com](http://www.astroflame.com)  phone: 01329 844 500  or email sales@astroflame.com
**Trade Name**  ASTRO FR SILICONE

**FIRE RATED SILICONE SEALANT**

**Product Description**
Astro Fire Rated Silicone is a high performance sealant for use in fire sealing joints and gaps up to 50mm wide. A neutral curing, odourless fire rated silicone sealant with excellent weatherability and flexibility. The sealant is primerless and offers a 4-hour fire rating to EN 1366-4: 2006 and up to 4 hours integrity with a life expectancy of over 25 years.

Other features include Non-slump, easy to apply and tool off. Joint movement capability of +/- 25%. Highly flexible and waterproof. Resists fungi and vermin.

For additional information about classification on different gap widths and depths using various substrates please contact us or view our website.

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>COLOUR</th>
<th>PRODUCT REF</th>
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<tbody>
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<td>Astro FR Silicone</td>
<td>310ml cartridge</td>
<td>White</td>
<td>AFFRSW</td>
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</tbody>
</table>

**Quick Overview**

- Tested in accordance with EN 1366-4: 2006
- Fire Classification to EN 13501-2. Acoustic Isolation to EN 10140
- Air Permeability testing to EN 1026
- Can be used in joints up to 50mm wide
- Causes no known deleterious effects to plastic pipes, plastic cables, sheathing or metallic components
- Can be used internally and externally
- Movement capability: / + 25%

**How to order this product**

FOR EXAMPLE

10NO / ASTRO FR SEALANT / AFFRSW

---

**Trade Name**  ASTRO FR-EC ACOUSTIC FOAM

**FIRE RATED FOAM**

**Product Description**
A one-component, self-expanding, ready to use polyurethane foam that uses 'green' propellants, harmless to the ozone layer and without greenhouse gas effects. It has a fire rating of up to 240 minutes (tested according EN1366-4). Typical use in linear joint seals.

- Ready to use PU foam in a 750ml can
- Fire retardant up to 240 minutes
- Tested in accordance with EN1366-4: 2006
- Efficient seal against smoke and gas
- Excellent adhesion on most construction substrates
- High bonding strength
- Very good filling characteristics
- Excellent stability: no shrink or post expansion
- Cured foam can be overpainted

**Availability**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>COLOUR</th>
<th>PRODUCT REF</th>
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<td>750ml</td>
<td>Light Red</td>
<td>AFFRECFOAM</td>
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</table>

**Quick Overview**

- Tested in accordance with EN 1366-4: 2006
- Fire Classification to EN 13501-2. Acoustic Isolation to EN 10140
- Air Permeability testing to EN 1026
- Can be used in joints up to 50mm wide
- Causes no known deleterious effects to plastic pipes, plastic cables, sheathing or metallic components
- Can be used internally and externally
- Movement capability: / + 25%

**How to order this product**

FOR EXAMPLE

20NO / ASTRO FR-EC ACOUSTIC FOAM / AFFRECFOAM / 750ML

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
FIRE PROOF & ANTI GRAFFITI PAINTS

Fire Proof paints and coatings produce a protective char retarding the spread of flames and the transfer of heat in the event of a fire. Astroflame stock a range of protective intumescent coatings, for steel, timber, plaster and brick and a range of decorative finishes to protect and complete fire protection systems.

These types of decorative finish are also referred to as fire proof paint, fire retardant paint or fire varnish (clear coat).

Astro ISS Intumescent Paint insulates structural steel and cast iron steel during a fire, keeping them below the critical (collapse) temperature. Astro ITC and Astro IFV Intumescent Coatings control flame spread and fire propagation on wood.

Fire retardant and flame retardant paints assist in the control of fire hazards from combustible materials, such as wood, by releasing a flame extinguishing gas when exposed to the high temperature of a fire.

Anti Graffiti paints are designed for use to combat a growing graffiti problem.

Graffiti is an issue in a variety of ways, predominantly in today’s society this is with the use of spray paints, marker pens, inks and pencils. Graffiti is usually carried out in public areas for full visual exposure.

Graffiti has both positive and negative attributes. Some of these positive aspects are when large murals are commissions and classed as ‘street art’. However there is also the negative aspect using foul and abusive language and general tagging which is unsightly. This graffiti can damage substrates and cost hundreds of thousands of pounds per year to remove.

Astroflame have a range of anti graffiti coatings to combat the destructive nature of graffiti.

We accept any order size and are happy to provided specifications and quotations - please use our specification forms on the website: www.astroflame.com > intumescent-paint > then click either >> Steel and Cast Iron or >> Timber/Walls & Ceilings/Varnish to ensure we cover all aspects of your fire protection and decorative requirements in our quote.

Prior to application the contractor should contact the Astroflame Technical Department to obtain a basecoat application schedule.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
INTUMESCENT PAINT FOR TIMBER

Product Description
Astroflame ITC intumescent paint provides durable wear, weather and wash resistant fire protection paint for decorative interior and exterior timber surfaces. Use with Astroflame SFR Dualcoat.

Availability
Astroflame ITC intumescent paint is available in 20 & 80 square metre packs and 5kg Packs. It can be overcoated with our flame retardant paint - available in BS4800, RAL colours and a range of finishes.

Quick Overview
BS EN Class B s1 dO and complies with Class O
BS476 Part 7: Class 1 surface spread of flame
BS476 Part 6: Fire propagation Class 0
Meets New BS EN Class B
Available in a wide range of finishes
Brush, roller or spray application

INTUMESCENT PAINT FOR WALLS & CEILINGS

Product Description
Astroflame IWC intumescent paint is an intumescent coating for walls and ceilings. Inherently non-combustible surfaces such as plasterboard and brick can become a potential fire hazard due to repeated redecoration with conventional paints. Different paint types from a variety of manufacturers have generally been used over many years with less than thorough preparation. In a fire thick layers of old paint tend to de-laminate rapidly catching and spreading fire around a building. In extreme cases a lethal “flash-over” fireball effect is created.

The resultant risk to life and property can be greatly reduced at minimum cost using a combination of Astroflame IWC intumescent paint, an insulating “intumescent” barrier coating and SFR wallcoat. The Astroflame IWC intumescent paint system can help landlords comply the the Fire Safety Order 2005. Ask us for details.

Availability
Astroflame IWC Paint is available in 25 and 100 square metre for Class O and B s1 dO for walls and ceilings. 25 and 80 square metre for Class O and B s1 dO for wallpaper. 5 kg for 30 + 60 mins. For a decorative finish Astroflame FR Paints fire proof topcoat is available in 2.5 litre and 5 litre containers. Please refer to separate Astroflame FR Paints fire proof paint data sheet.

Quick Overview
BS476 Part 7: Class 1 surface spread of flame
BS476 Part 6: Fire propagation
Designated Class 0 in accordance with U.K.
1 coat IWC intumescent paint for walls and ceilings
For wallpaper & multi-layer painted surfaces
Matt and eggshell
Class 0 + Bsf dO with 1 coat of SFR wallcoat
(smoke & flame retardant)
White + BS & RAL colours
Intumescent basecoat for 30/60 minutes protection on plasterboard, cementitious board and concrete
Designated Class 0 in accordance with U.K. Building Regulations

FLAME RETARDANT PAINT

Product Description
Flame Retardant finish to protect, seal and decorate over Astroflame ISS intumescent Steel Coating. Durable, high opacity, weather-resistant. Maintains Class O on primed non-combustible surfaces.

Astroflame FR Paints assist in the control of fire hazards caused by combustible materials such as wood and paint in buildings by releasing a flame extinguishing gas upon contact with a fire.

Availability
Astroflame FR Paints available in 2.5 and 5 litre packs. In Gloss and Eggshell Finishes in BS4800 and RAL colour ranges.

Quick Overview
BS 4800, BS 381C and RAL colour ranges.
BS476 Part 7: Class 1 surface spread of flame
BS476 Part 6: Fire propagation.
Meets new Fire Regulations standard BS EN Class B s1 dO and complies with Class O.
Brush, roller or spray application.
INTUMESCENT FIRE VARNISH SYSTEM

**Trade Name** ASTRO IFV/FVO VARNISH

**Product Description**

Astroflame IFV Intumescent fire varnish basecoat is part of a fire protection varnish system with the option of a clear or stained finish for Fire Protection of timber and timber derivative substrates. The special formula provides a tough, durable finish to internal and external wood.

Clear or stained finishes enhance the natural beauty of the wood while fire protecting new and previously varnished surfaces. 1 coat Astroflame IFV Intumescent fire varnish basecoat plus 1 coat Astroflame FVO overcoat fire varnish clear or 2 coat woodstain. For damp or heavily cleaned areas apply 1 coat External overcoat. For external - 2 coats External.

- Saves Money and Time!
- For class 1, 0, & B s2 d0 - 1 coat basecoat + 1 coat Interior /2 coats exterior Overcoat.
- For 30/60 minutes - 3 coats basecoat + 1 coat Interior /2 coats exterior Overcoat.

Contact Technical Dept

**Quick Overview**

BS476 Part 7: Class 1 surface spread of flame
BS476 Part 6: Fire propagation
Designated class 1, 0, & B s2 d0 in accordance with UK Building Regulations
Water based clear intumescent with White Spirit based decorative overcoat in Satin or Matt finishes
Brush, roller or spray application

**Availability**

Astroflame Fire Varnish ASTRO IFV base coat is available in 20 meter square packs. The sealer coat ASTRO FVO sealer coat is available in gloss, satin and matt in 20 and 80 meter square packs.

INTUMESCENT PAINT FOR STEEL & CAST IRON

**Trade Name** ASTRO ISS PAINT

**Product Description**

A water-based intumescent paint system providing fire resistance to structural steel and cast iron that may be applied by brush, roller or airless spray. A compatible decorative overcoat system ensures the system will enhance the building’s architectural and design features.

Astroflame ISS intumescent Steel Coating is a low-odour, water-based coating, making it user and environmentally friendly. The range of topcoats are either water-based or 2010 compliant and safe to use in accordance with manufacturer's instructions.

**Quick Overview**

Intumescent Paint for structural steel and cast iron
Conforms to BS476 Part 21
Fire resistance for load bearing elements of structure
Rated for 30 and 60 minutes
Brush, roller or airless spray application

**Availability**

A range of hard, high quality, weather resistant decorative finishes matches the decor, architectural or historic features of a building while helping to make it a safer structure. Available in BS4800, RAL and metallic colours and a non decorative finish for unexposed areas.

Eggshell - BS4800 + RAL. One-coat gloss - BS4800 + RAL. Metallic - Steel, gunmetal, rust, silver, gold. Non decorative - N/A - For dry, hidden areas only. ASTRO ISS Paint is available in 5 kilo and 20 kilo containers ASTRO FR PAINT (flame retardant topcoat finish) is available in 2.5 and 5 Litres containers. Please contact our Technical Team for further advice.

HIGH BUILD PRIMER

**Trade Name** ASTRO HBP PRIMER

**Product Description**

A High Build Quick Drying corrosion resistant metal primer for structural steel and cast iron. Contains high durability resin binders, light fast pigments and a high concentration of zinc phosphate. Compatible with Astroflame ISS Paint and most other intumescent paint systems, epoxy and conventional paints. Suitable for application in Steel Fabricator’s shops or on site. Will protect exposed structural steel during construction as well as protecting internal steelwork thereafter. May be overcoated with our intumescent paint systems as well as epoxy, conventional gloss, eggshell, acrylic and vinyl paint finishes.

**Quick Overview**

Compatible with our intumescent paint
High Build & Quick Drying
Red, White or Grey
Solvent or water based options
Brush, Roller or Spray
Suitable as a general use metal primer

**Availability**

ASTRO HBP Primer is available in 2.5 litre and 5 litre containers. Please contact our Technical Team for further advice.

For the enquiry forms for these products please scan the QR codes on p 83
ANTI-GRAFFITI PAINT

> Trade Name  ASTRO NU-GUARD AG

> Product Description
Astro Nu-Guard AG is an anti-graffiti coating that protects all surfaces, including brick, concrete, render, stone, wood and plastic against all types of graffiti and poster glues. It’s been completely engineered in the UK to provide the most vandal resistant finish ever achieved anywhere in the world.

Once coated with Astro Nu-Guard AG, nothing can stick to the surface. Astro Nu-Guard AG is completely resistant to ALL paints, permanent markers and the majority of acids. Simple wash with water and graffiti disappears and posters just slide off, providing permanent protection against graffiti attack - without ghosting residue.

Astro Nu-Guard AG is one of the most economical and easy to use anti-graffiti products available on the market today.

Astro Nu-Guard® AG is ideal for the following applications: Aluminum Siding, Fibreglass, Glass, Masonry (includes brick, marble, stone, tile, granite and concrete), Metal, Street Signs, Stucco, Utility Boxes, Vinyl Siding, Wood.

> Availability
Packing: Single tins of 5 or 20 litre

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<tr>
<th>DESCRIPTION</th>
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<td>Astro Nu-Guard AG</td>
<td>5 LITRE</td>
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> How to order this product

Please quote

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<tbody>
<tr>
<td>3 NO / ASTRO NU-GUARD AG / AFAGPNG / 5 LITRE</td>
</tr>
</tbody>
</table>

TURN TO PAGE 83 FOR OUR RANGE OF FIRE PROOF PAINTS OR VIEW WWW.ASTROFLAME.COM AND CLICK “ALL PRODUCTS” > “INTUMESCENT PAINT”.

FOR FIRE PROOF PAINTS THINK...

TIMBER & WALL ENQUIRY FORM
Scan the QR code with your phone or tablet to link directly.

STEEL PAINT ENQUIRY FORM
Scan the QR code with your phone or tablet to link directly.
Astroflame’s Astrodraft range of draught proofing and weather sealing products include designs from well known manufacturers such as Raven and Schlegel as well as our own comprehensive product range.

The Schlegel range includes Aquamac Seals specially made for timber doors and windows. Lifetime guarantee. S644/BBA Approved.

The Raven Seals range includes fire, smoke, acoustic and disabled access seals for perimeter, door bottom and thresholds.

Our product range includes:

- Weatherstrip
- Door frame seals
- Door threshold plates
- Draught seals
- Door brush strips
- Window seals
- Threshold seals
- Sash window repair
- Door bottom seals

We have draught proofing perimeter seals suitable for all door and window frame types including Aluminium, uPVC, Timber, Butt fitting, Up and Over etc.

The door seals and window seals we stock are high quality types. Many are multipurpose with energy saving, noise reduction and low maintenance features.

Please contact us for any product data information, installation guidelines, safety information or if you require any technical help:

Email: sales@astroflame.com | Telephone: 01329 844500 | Fax: 01329 844600
SASH WINDOW & PATIO DOOR SEALS

Replacement and retrofit sash window seals and patio door seals to weatherproof, draughtproof, conserve energy and reduce intrusive noise.

SASH WINDOW PARTING BEAD SEALS

> Product Description
This unique design with a single hinge and 2 independently acting flippers will provide an excellent solution. It can be used as a direct fit in an 8mm groove or in conjunction with our 10x10 channel.

A = Groove size: 8mm
B = Groove size: 8mm (min)
C = Height: 17mm
D = Suits gaps: 10mm - 13mm
3m lengths
To order, quote Ref No. White - ADPB01WX Brown - ADPB02BX

PARTING BEAD BRUSH SEAL

> Product Description
This solid design of parting bead provide an excellent durable bead that can be used as a direct fit in an 8mm groove or in conjunction with our 10x10 channel. Available with or without brush fin pile. Brush pile 8.5mm. Suits gaps 10 - 13mm.

A = Groove size: 8mm
B = Groove size: 8mm (min)
C = Height: 17mm
D = Width: 14mm including brush
3m lengths
To order, quote Ref No. White - ADPBBW Brown - ADPBBB

PARTING BEAD CARRIER

> Product Description
10mm x 10mm external channel for use with 8mm direct fit parting beads. Will take 8mm Direct Fit or Double Flipper Parting Bead.

A = Groove size: 10mm
B = Groove size: 10mm
3m lengths
To order, quote Ref No. White - ADPB0W Brown - ADPB0B

IMPLY

> Product Description
Imply is a spring seal for either surface mounting or inset. This product is often used as a mid-rail seal.

A = Kerf size: 2.5 to 3mm
B = Kerf size: 6mm (min)
C = Suits gap: 2 - 6.5mm
D = Flipper length: 6.5mm
E = Base length: 9.5mm
2.2m lengths, To order, quote Ref No. White - ADIMPLYW Brown - ADIMPLYB

ASTRO CARRIPILE CP SEAL

Used as an alternative to Imply. Ideal for top, bottom and meeting rails of patio doors etc. PVCu carrier and polypropylene fin pile for added weather protection.

CP2

> Product Description
Centre leg carrier for mechanical fitting into slot and can be used in conjunction with 4.8mm base pile. Brush pile 6mm suits gaps 2 - 3.5mm. Brush pile 8.5mm: suits gaps 3.5 - 6.0mm.

A = Kerf size: 2.7mm
B = Kerf size: 3mm
C = Groove size: 6mm
D = Groove size: 8mm
2.2m lengths. To order, quote Ref No. White - ADCP2W Brown - ADCP2B. State length of brush required.

> Order these products
Online: www.astroflame.com phone: 01329 844 500 or email sales@astroflame.com
ASTRO CARRIPILE CP SEAL SELF ADHESIVE

For top, bottom and meeting rails of patio doors etc. PVCu carrier and polypropylene fin pile for added weather protection. Self-adhesive backing for speed and ease of fitting.

CP3

> Product Description

Flat based carrier supplied with self adhesive and can be used in conjunction with 4.8mm base pile.
A = Groove size: 8mm
B = Groove size: 3.5mm

Brush pile 6mm: suits gaps 2 - 3.5mm.
Brush pile 8.5mm: suits gaps 3.5 - 6.0mm.

2.2m lengths
To order, quote Ref No.
White - ADCP3W    Brown - ADCP3B.
State length of brush required.

DOOR & GLAZING SEALS

Easy fit compression seals for draught and weather sealing doors and windows. Suitable for all types of doors and windows and void filling.

E PROFILE DOOR/GLAZING SEAL

> Product Description

Black, Brown or White 9mm x 4mm  5M, 10M & 100M coils.
To order, quote Ref No.
White [5M, 10M & 100M] - ADESW/5 | ADESW/10 | ADESW/100
Brown [5M, 10M & 100M] - ADESIB/5 | ADESIB/10 | ADESIB/100
Black [5M, 10M & 100M] - ADESBKL/5 | ADESBKL/10 | ADESBKL/100

P PROFILE DOOR/GLAZING SEAL

> Product Description

Black, Brown or White 9mm x 5.5mm  5M, 10M & 100M coils.
To order, quote Ref No.
White [5M 100M] - ADPSW/5 | ADPSW/100
Brown [5M & 100M] - ADPSB/5 | ADPSB/100
Black [5M & 100M] - ADPSBLK/5 | ADPSBLK/100

BUBBLESEAL 6MM DOOR GLAZING SEAL

> Product Description

6mm Bubble Seals offer high resilience, low permanent set, soft feel but good resistance to abrasion and provides an excellent seal for various applications.
A = 6.0mm or 8.0mm  B = 3.0mm Kerf Available Colours: Brown & Light Oak.

Supplied on 100m coils. To order, quote Ref No.
Brown - ADTBX6MMB  Light Oak - ADTBX8MMLO

> Order these products

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
DOOR BOTTOM SEALS

ASTRO WEATHERSTOP WS SEAL

> Product Description

Astro Weatherbar offers an improved weather performance over galvanised and plain plastic alternatives in the market, and with a built in flexible flipper will offer excellent long last protection. Its robust design will withstand the extremes of weather conditions and general foot traffic.

A = Groove size: 6 - 6.3mm  
B = Groove size: 8mm (min)  
C = Height: 12mm  
D = 5mm  
3m or 914mm lengths. To order, quote Ref No. Brown - ADWS04BX/3000 (3m) or ADWS04BX/914 (914mm)

ASTRO H CARRIER

> Product Description

An Aluminium carrier in Mill or Gold finish containing a Black Brush pile in various lengths. Carrier Colour Mill (M) or Gold (G) Lengths of Carrier 914mm or 2134mm Brush Length 22mm, 30mm, 40mm or 50mm.

To order, quote Ref No. 
ADHCAR | Colour [M or G] | Lengths [914 or 2134] | Brush Length [22 to 50] 
ADHCARM914/22

CONTACT US FOR ALL YOUR DRAUGHT PROOFING AND WEATHERPROOFING SUPPLIES

A range of door seals and window seals for common applications to weatherproof, draughtproof, conserve energy and reduce intrusive noise.

Our product range includes: weatherstrip, door seals, door threshold plates, draught seals, door brush strips, window seals, adhesive seals, threshold seals, sash window repair, draught strips, door bottom seals & replacement door seals.

THE ASTRODRAFT PRODUCT RANGE INCLUDES TOP MANUFACTURERS RAVEN™, SCHLEGEL AQUAMAC ™ & SCHLEGEL Q-OLON.

www.astrodraft.com

WE ALSO HAVE DRAUGHT PROOFING PERIMETER SEALS SUITABLE FOR ALL DOOR AND WINDOW FRAME TYPES INCLUDING ALUMINIUM, UPVC, TIMBER, BUTT FITTING, UP AND OVER ETC.

THE DOOR SEALS AND WINDOW SEALS WE STOCK ARE HIGH QUALITY TYPES. MANY ARE MULTIPURPOSE WITH ENERGY SAVING, NOISE REDUCTION AND LOW MAINTENANCE FEATURES.

ASTRODRAFT IS PART OF THE ASTROFLAME GROUP OF COMPANIES.

> Order these products

Online: www.astroflame.com  
phone: 01329 844 500  
or email sales@astroflame.com
SCHLEGELO AQUAMAC DRAUGHT PROOFING FOR TIMBER DOORS & WINDOWS

> The Aquamac Range

The unique design has made Aquamac impervious to paint and stain, while still providing some of the best energy saving performance characteristics currently available.

B = Brown  W = White  BLK = Black

> SCHLEGELO REBATED RANGE

AM21/QL3009
Available only as a coil in 100 metre or 250 metre lengths. ADAM21/Colour

AM33/QL3012
Available only as a coil in 100 metre or 200 metre lengths ADAM33/Colour

AM48/QL3013
Available only as a coil in 100 metre or 350 metre lengths ADAM48/Colour

AM4846/QL3037
Available only as a coil in 100 metre or 200 metre lengths ADAM4846/Colour

AM63/QL3005
Available only as a coil in 100 metre or 300 metre lengths ADAM63/Colour

AM89/QL3006
Available only in 2100mm lengths ADAM89/Colour

AM109/QL3011
Available only as a coil in 100 metre or 250 metre lengths ADAM109/Colour

AM120/QL3076
Available only as a coil in 100 metre or 250 metre lengths ADAM120/Colour

AM124/QL3020
Available only as a coil in 100 metre or 125 metre lengths ADAM124/Colour

> How to order this product

PLEASE QUOTE
ADAM/TYPM/COLOUR/COIL

FOR EXAMPLE
ADAM21/W/100M OR ADAM63/BLK

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com

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Colours

Packaging

Other colours upon request
SCHLEGEL RETRO FIT RANGE

> Schlegel Features
- Q-Lon Seal Performance not affected by painting over
- Excellent Memory
- Low Friction
- 10 Year Life Span

QLON RETRO 21B
Exterior / Interior door and window perimeter seal.
ADAMRET21BB - Brown PVC-u Box Carrier with a Brown Q-Lon Seal 2050mm
ADAMRET21BW - White PVC-u Box Carrier with a White Q-Lon Seal 2050mm

QLON RETRO 21 L
Exterior / Interior door and window perimeter seal.
ADAMRET21LB Brown PVC-u H Carrier with a Brown Q-Lon Seal 2050mm
ADAMRET21LW White PVC-u H Carrier with a White Q-Lon Seal 2050mm

Q-LON SBS
Exterior / Interior door and window perimeter seal.
ADAMQLSBSB Brown PVC-u Box Carrier with a Brown Q-Lon Seal 2050mm
ADAMQLSBSW White PVC-u Box Carrier with a White Q-Lon Seal 2050mm

QLON PS
Exterior / Interior door and window perimeter seal.
ADAMQLPSB Brown PVC-u H Carrier with a Brown Q-Lon Seal 2050mm
ADAMQLPSW White PVC-u H Carrier with a White Q-Lon Seal 2050mm

SHARKSEAL SBS
Interior door and window perimeter seal, ideal for sliding applications.
ADAMQLFSB Brown PVC Carrier with a Brown Q-Lon Seal
ADAMQLFSW White PVC Carrier with a White Q-Lon Seal

Q-LON FS
Meeting rails of timber sliding sash meeting stile of double doors
ADAMQLFSB Brown PVC Carrier with a Brown Q-Lon Seal
ADAMQLFSW White PVC Carrier with a White Q-Lon Seal

> Order these products
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**RP35SI**

**Product Description**

The RP35Si is a surface mounted version of the RP8Si designed for easy installation and post door hanging fitting. A medium temperature automatic smoke/acoustic door bottom seal with an extruded silicon sealing component. RP35Si is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres and is operated automatically by pressure against the door jamb.

Location: Single and double, butt hinged doors. Min/Max Gap: 3mm/13mm. Seal Sizes (mm): 1220, 1070, 920, 820, 600, 380. Seals cut back to exact size, 295mm min. Standard Finish: Anodised Satin Clear. Durability tested to over 1,000,000 cycles without failure.

**Approvals**

Acoustic: UK/EU: Conforms to Approved Document E. Tested to BS EN ISO 140.3, BS EN ISO 717.1, BS 2750, BS 5821.
Fire & Smoke: AUS/NZ: Conforms to BCA Spec. C3.4. Tested to AS 1530.4, AS/NZS 1905.1 & AS/NZS 1530.7. UK/EU: Conforms to Approved Document B. Tested to ISO CD 5925-1 (similar to BS EN 1634.1, BS 476 Part 20 & 22, Sec. 31.1).

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DOOR BOTTOM SEALS

RP60 (RESIDENTIAL)

> Product Description
A face mounted automatic door bottom seal which is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres. The RP60 is operated automatically by pressure against the door jamb on its adjusting screw, and it incorporates concealed fixings.

Location: Single or double butt hinged doors. Min/Max Gap: 3mm/15mm. Seal Sizes: 915mm only between door stops. Unit cuts back to 450mm min. Standard Finish: Anodised Satin Clear. Durability tested to over 500,000 cycles without failure.

RP4B THRESHOLD SEAL

> Product Description
Threshold Seal to be used in conjunction with RP4T. Location: Door bottom and sill of single and double butt hinged doors. Min/Max Gap: 23mm/25mm. Seal Sizes: Available in 1000mm stock lengths. Maximum Length: 3000mm. Standard Finish: Anodised Satin Clear. Threshold Bar only, image shows RP4B and RP4T.

RP4T DOOR BOTTOM SEAL

> Product Description
A storm proof door bottom seal where maximum weather protection is required. The multi blade seal defies rain infiltration. RP4T can be fitted to the square cut bottom of a door without removing the door, provided there is a gap of 25mm under the door before the seal is installed. It is quick and easy to fit to both door and sill. The sealing section is slotted for adjustment.


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DOOR BOTTOM SEALS

RP26

> Product Description
A heavy duty EPDM sweep seal for door bottoms of outward opening doors. It has slotted holes for the adjustment of its concealed fixings, behind a push-in cover strip.

Location: Door bottoms, single or double outward opening, butt hinged or tilt-up doors can be used as an astragal seal.

Min/Max Gap: 5/20mm (user determined).
Seal Sizes Available: in 1000mm stock lengths.
Maximum Length: 3000mm.
Standard Finish: Anodised Satin Clear
Used in Conjunction: Raven threshold plates such as RP19.

RP30

> Product Description
A concealed sweep type seal which is fitted in a morticed groove that has been cut into the bottom of a door. The groove should be sufficiently deep to allow packing for adjustment.

Location: Door bottoms, meeting stiles, bumper strip. Min/Max Gap: 3/8mm (user determined). Seal Sizes: Available in 1000mm or 2250mm stock lengths.
Maximum Length: 3000mm.
Standard Finish: Anodised Satin Clear
Used in Conjunction: RP13, RP82 (essential).

RP31

> Product Description
A heavy duty sweep type seal, similar to RP30 but with greater compression, which is fitted to the bottom of a door with concealed fasteners. The design of the seal does not allow adjustment so it should not be installed in situations where adjustability is required.

Location: Door bottoms, meeting stiles, bumper strip. Min/Max Gap: User determined. Seal Sizes: Available in 1000mm or 2250mm stock lengths.
Maximum Length: 3000mm.
Standard Finish: Anodised Satin Clear
Used in Conjunction: RP82 (essential).

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Seals designed for the gap between the door and the frame (up and down the jamb and across the head of the door) are termed “door frame or perimeter seals”. These are generally compression seals, some are mounted on the door stop or directly onto a plain frame of the door, thereby providing a door stop seal. Some seals can be fitted to the door or neatly rebated into the frame itself.

**RP120 & RP150 DELTA SEALS™**

**> Product Description**

RP120 and RP150 are co-extruded PVC, acoustic and smoke seals. Discreetly located in the protected corners of rebated timber or steel door frames. RP120 and RP150 are suitable for new and retrofit applications.

Location: Around rebated frames of single or double butt hinged doors and windows. Min/Max Gap: 3mm to 5.5mm. Seal Sizes: Single or double doorsets.

Standard Finish: Black.  
(PVC) Fixing Method: Self adhesive.  
Note: Contact surface must be clean, smooth and if painted, well cured. Seal Material: Rigid and flexible flame retardant PVC  
Used in Conjunction: Raven door bottom seals, threshold plates and astragal seals.

**RP10SI**

**> Product Description**

A neat compact door stop frame seal which has proven to be an effective acoustic and medium temperature smoke seal. It is quick and easy to install onto the door frame as a door stop. It is adjustable, using concealed fixing slots for a precision fit. The multi blade seal considerably reduces the leakage of noise, smoke and air movement. The minimum deflection of the sealing fins creates maximum efficiency, offering a large tolerance for door movement over time. The seal can be mitred or butt jointed to give an integrated aesthetic appearance.

Location: Head and jambs of single or double butt hinged doors. Min/Max Gap: 0mm/10mm. Seal Sizes: Single or double standard or long doorsets.  
Standard Finish: Satin Anodised. Used in Conjunction: Raven door bottom seals, astragals and thresholds. Note: If fixed to existing rebated frames of single doors, specify a long backset door latch.

**RP73**

**> Product Description**

An extremely flexible coextruded PVC sweep seal that fits into a saw kerf groove cut into the frame or door. It holds tight radii and compound curves when bent around a frame. It resists UV, ozone, mildew and colour change.

Location: Around sliding doors, door frames and pivot doors. Min/Max Gap: 6mm to 8mm. Seal Sizes: 1000mm increments to 200 metre (coil). Note: For noise, specify two rows of seal.

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**DOOR FRAME OR PERIMETER SEALS**

**RP93SI**

> **Product Description**

A weather, smoke and acoustic seal suitable for plain or rebated frames. RP93Si is quick and easy to install (mitre joint only), to the head and jambs without removing the door. Slotted for installation adjustment, the soft silicon bulb accommodates a tighter seal and, with a tamper proof cover strip, provides a fit and forget feature. Location: Head and jambs of single or double butt hinged doors.

Min/Max Gap: 0mm/6mm.
Seal Sizes: Single or double doorsets.
Standard Finish: Cover strip only.
Anodised satin clear. Used in Conjunction: RP8Si, RP38Si, RP99Si, RP70Si. Note: If fixing to rebated frames of single doors specify a long backset door latch. The tamper proof aluminium coverstrip is not recommended for removal once installed, refer RP78Si or RP10Si for this feature.

**RP94Si**

> **Product Description**

A weather, smoke and acoustic seal, suitable for rebated frames. RP94Si is quick and easy to install, either mitred or butt jointed to the head and jambs without removing the door. Slotted for installation adjustment, the soft silicon bulb accommodates a tighter seal and with a tamper proof cover strip, provides a fit and forget feature.

Location: Head and jambs of single or double butt hinged doors. Min/Max Gap: 0mm/6mm.
Seal Sizes: Single or double doorsets.
Standard Finish: Cover strip only.
Anodised satin clear. Used in Conjunction: Raven door bottom seals, astragal and threshold plates. Note: The tamper proof aluminium coverstrip is not recommended for removal once installed, refer RP78Si for this feature.

**ASTRAGAL/MEETING STILE SEALS**

**RP16Si**

> **Product Description**

A medium temperature smoke and acoustic astragal seal for use with plain or rebated meeting stiles on double doors. The aluminium trim cleanly conceals the sealing portion of the seal. If necessary the leg of the aluminium can be cut out (checked) to allow for any locks and latches. It is used where only one door leaf is active. The seal also improves security and when two are fitted (one on each leaf), noise infiltration is greatly reduced.

Location: Meeting stiles of double doors, butt hinged. Min/Max Gap: 2.5mm/8mm.
Seal Sizes: 2250mm or 2500mm stock sizes. Standard Finish: Anodised Satin Clear.

> **Order these products**

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RP71SI

> Product Description

A smoke and acoustic astragal seal designed for plain or rebated meeting stiles of timber double doors where a centre latch bolt may be required, or where both doors are active. The sealing portion is made from silicon rubber which are effective in the sealing of noise and weather. Two seals are installed onto one door stile, allowing space for a latch between the seals. The legs of the seals can be cut out (checked) to accommodate the latch bolt front plate, thereby providing a continuous seal (minimum door thickness subject to centre latch and dimensions of morticed door bottom seals).

Location: Double butt hinged and centre pivot double acting doors. Min/Max Gap: 3mm to 4mm. Seal Sizes: 2250 or 2500mm stock sizes. Standard Finish: Anodised Satin Clear.

GLASS DOOR SEALS

RP103 & RP104

> Product Description

Clear polycarbonate astragal seals for 10 or 12mm thick frameless glass doors. Woven pile sealing strip is combined with a weather fin.


Seal Sizes: RP103 - 10mm  RP104 - 12mm

RP79/RP88

> Product Description

Glass door draught excluder strips by Raven. Uses an Anodised Aluminium (15 microns) carrier. This glass door seal has a built in hot smoke seal which is undergoing UK/EU certification so we are selling this product purely as a draught seal until UK fire certification is granted. The Raven RP88 seal is for 10mm thick glass doors.

The Raven RP79 seal is for 12mm thick glass doors. Weatherseal is a black, polypropylene woven pile combined with a weather fin.

Seal holder is all Aluminium construction with a Satin Clear (Silver) finish. Both types, RP79 and RP88, are for pre-installation gaps of 8mm to 9mm. Both types sold in 3 metre lengths. Fixing is with double sided adhesive tape (pre-fitted in the carrier). Contact surfaces must be clean, smooth and, if painted, well cured.

To seal the bottom of the door we suggest the Raven RP74 or RP75 Self Adhesive Brush Seals.

Seal Sizes: RP79 - 12mm  RP88 - 10mm

> Order these products

Online: www.astroflame.com  phone: 01329 844 500  or email sales@astroflame.com
THRESHOLD PLATES

RP13

> Product Description
A low profile threshold plate which is often used in conjunction with door bottom seals to prevent rain infiltration. Location: Door sills. Sizes: 1000 or 2000mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven door bottom seals.

RP77

> Product Description
A heavy duty door threshold. The ribbed extrusions can be positioned back to back to provide a two way threshold ramp. Location: Door sill or used to provide a ramp frame for wheelchair access and internal door mats. Sizes: 1000 or 2250mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven door bottom seals.

RP95

> Product Description
A low profile threshold plate used in conjunction with door bottom seals to prevent rain, draught, smoke and noise infiltration. Location: Door sills. Sizes: 1000mm or 2000mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven door bottom seals.

RP97SI

> Product Description
A threshold plate seal particularly suited for outward opening butt hinged plant room and emergency exit doors. When used in conjunction with RP93Si and RP16Si an excellent smoke and acoustic system is achieved. For acoustic applications the void under the RP97Si should be filled with sound foam or other suitable material. Location: Door sills abutting outward opening butt hinged plant room or emergency exit doors. Min/Max Gap: Compression of seal 0mm/2mm. Size: 1000mm stock lengths. Standard Finish: Anodised Satin Clear. Note: Specify order length wider than door opening to provide a neat detail at door frame (see illustration).

RP115

> Product Description
A low profile threshold plate used in conjunction with Raven door bottom seals to prevent rain, draught, smoke and noise infiltration. Location: Door sills. Sizes: 1000 or 2250mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven door bottom seals.

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Online: www.astroflame.com  phone: 01329 844 500 or email sales@astroflame.com
RP117Si

> Product Description
The RP117Si is a weather, smoke and acoustic threshold plate seal suited to outward opening butt hinged doors. It is ideal for use with a panic type exit device (by others). For acoustic applications the void under the threshold should be filled with sound foam or other suitable material (by others). Location: Door sills. (Butt hinges recommended). Sizes: 1000 or 2000 stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven door frame seals, RP118Si and suitable panic type exit devices.

RP15

> Product Description
A nylon brush strip seal that is ideal for installations where larger gaps are encountered. Location: Door bottoms, single, double or sliding. Min/Max Gap: Up to 25mm (user determined). Seal Sizes: 1000 or 2250 stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Raven threshold plates.

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BRUSH STRIP SEALS

RP49

> Product Description

RP74

> Product Description
A nylon brush seal with a self adhesive aluminium carrier. Mounted to the inside or outside door head and bottom face, RP74 provides a very neat sealing solution with the advantage of final on site installation which overcomes unforeseen floor or sill variation. Location: Door bottoms, single, double or sliding and double acting. Min/Max Gap: Up to 13mm (user determined). Seal Sizes: 1000 or 2250 stock lengths. Used in Conjunction: Raven threshold plates.

RP75

> Product Description
As RP74 above but with a 19mm brush. Location: Door bottoms, single, double or sliding and double acting. Stiles on tilt up doors. Min/Max Gap: Up to 19mm (user determined). Seal Sizes: 1000 or 2250 stock lengths. Used in Conjunction: Raven threshold plates.

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Online: www.astroflame.com   phone: 01329 844 500   or email sales@astroflame.com
RP39

> Product Description

A refrigeration type vinyl magnetic strip in an anodised aluminium housing, which provides a very tight seal for steel clad doors and jambs, and may be used as a stop. For timber doors, a thin steel strip can be attached to the door face. The magnetic strip has sufficient closing strength that latches are not required. It can also be used in pairs on meeting stiles of timber doors. Location: Single or double doors, sliding doors and stiles, heads and jambs or bulk head applications. Butt hinges recommended. Min/Max Gap: 4mm to 8mm (meeting stiles). Standard Finish: Anodised Satin Clear. Seal Size: 2500mm stock lengths Used in Conjunction: Door bottom seals. Note: As an astragal seal, RP39 is not recommended for highly active doors, i.e. it is best suited to infrequent use and door closer hold-open applications.

RP65

> Product Description

A refrigeration type PVC magnetic strip in an anodised aluminium channel, that is morticed into the stiles of hardwood double timber doors, either pivot, sliding or butt hinged, to form an effective astragal. It provides a very positive seal and has sufficient closing strength that latches may not be required. Location: Double swinging doors and sliding door meeting stiles. Min/Max Gap: 5mm to 7mm. (swing doors).

Seal Size: 2250mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Door bottom and frame seals. Note: Centre latching cannot be used in this configuration. The aluminium channel is designed to fit into a 16.5 x 12mm mortice. The magnetic seals are locked to prevent ‘creeping’. RP65 is not recommended for highly active doors. i.e: best suited to infrequent use and door closer hold open applications.

RP85

> Product Description

A magnetic seal that is fixed to the head and jambs as a door stop where steel clad doors are used. For timber doors, a thin steel strip can be attached to the door face. The magnetic strip has sufficient closing strength that latches are not required. Location: Head and jamb for single and double broad butt hinged doors. Min/Max Gap: 0-4mm (user determined).

Seal Sizes: 2250mm stock lengths. Standard Finish: Anodised Satin Clear. Used in Conjunction: Door bottom seals and astragal seals. Note: If fixing to rebated frames of single doors, specify a large backset door latch.

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SELF ADHESIVE SEALS
Superior quality self adhesive door and window frame weather strip. These soft rubber EPDM seals are set into the corners between the door stop and frame providing a compression seal.

RP48
> Product Description
Available in white or brown. Location: Around door and window frames. Min/Max Gap: 3/5mm (user determined). Seal Sizes: 6m coil pack length (2x3m).

RP55
> Product Description
Available in white or brown. Location: Around door and window frames. Min/Max Gap: 3/6mm (user determined). Seal Sizes: 6m coil pack length (2x3m).

RP59
> Product Description
Available in white or brown. Location: Around door and window frames. Min/Max Gap: 2/4mm (user determined). Seal Sizes: 6m coil pack length (2x3m).

RP61
> Product Description
A self adhesive soft woven pile draught seal which is ideal for sliding door and window applications. Polypropylene fibre seal in grey. Location: Around window and door frames. Min/Max Gap: 3/5mm (user determined). Seal Sizes: 6m (max). Can be cut to length required.

RP108
> Product Description

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