Acoustic Seals for Fire Doors
Acoustic drop down seals

Description

A comprehensive range of high performance seals designed to meet the needs of approved document E. Firestop offer a high quality range of acoustic drop down seals for the bottom of doors known as ‘dropseals’.

The seals are activated by the closing action of the door, dropping down to seal only when the door is closed. This leaves the door threshold clear and flat, without the need for high fixed thresholds. Our seals have been tested with and without threshold plates and also straight down to carpet.

These Seals are designed to form an effective barrier against the outside climate, noise, light, fire, smoke and insects. They provide a cost-effective solution for document part E and part M of the latest UK building regulations relating to disability, access and energy conservation.

There are a choice of seals to suit glass and timber doors. All seals are available in a wide choice of standard sizes, and are easily fitted. Just cut the seal down to the door width, attach to the door using the pre-fitted screws, and adjust the drop down seal for a tight fit to the floor with the 3 mm Allen key screw located in the plunger cap. There is a selfaligning cap on the end of the plunger.

Features and Benefits

- Designed to work with up to a 14mm gap between the door and floor
- European manufactured
- Simple cost effective installation
- Tested with and without threshold plates
- Tested straight down to carpet
- Quality products you can trust and depend on

Our rebated models have easily removed mechanisms to prevent damage during installation. This also assists in removing the rubber seal in case of accidental damage.

Simply slide the rubber seal/mechanism out from the plunger side and replace as necessary. The fixing screws must be fully screwed home or taken out to allow the mechanism to be removed.

Product testing and quality control are very important to us. All our seals have been endurance-tested to 200,000 cycles. Our comprehensive range of acoustic testing is available upon request.
Top 37

Rebated model for timber doors
Acoustically tested achieving up to 37dB Rw

Features and Benefits
- Prefitted screws for quick cost effective fixing
- Seal drops on hinge side before lock side
- Seal removable to assist installation/replacement
- 14 mm maximum drop
- Galvanized flat springs and reinforced actuators
- 2 fin high quality 'V' zero class PVC rubber co-extruded seal and carrier, self extinguishing, in aluminium body

Acoustic Performance and Fire Testing
Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 37dB Rw.

Fire tested to BS476: Part 20/22: 1987 to 60 minutes.

Smoke tested to BS EN 1634-3: 2004.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Maximum Trimmed Length</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1200</td>
<td>330mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>280mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1201</td>
<td>430mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>305mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1202</td>
<td>530mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>430mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1203</td>
<td>630mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>530mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1204</td>
<td>730mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>630mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1205</td>
<td>830mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>730mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1206</td>
<td>930mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>830mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1207</td>
<td>1030mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>930mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1208</td>
<td>1130mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>1030mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1209</td>
<td>1230mm</td>
<td>Top 37dB&lt; Drop Down Seal</td>
<td>1130mm</td>
<td>5</td>
</tr>
<tr>
<td>FS999</td>
<td></td>
<td>End caps to suit top drop down seals</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
Acoustic Plus 51

Rebated model for timber doors
Acoustically tested achieving up to 51dB Rw

Features and Benefits
- Maximum trimming length: 150 mm
- Prefitted screws for quick cost effective fixing
- Seal drops on hinge side before lock side
- Seal removable to assist installation/replacement
- 14 mm maximum drop
- Galvanized steel flat springs and reinforced actuators
- Sound insulating seal, high quality ‘V’ zero class PVC rubber, self extinguishing, in aluminium body

Acoustic Performance and Fire Testing
Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 and DIN EN 20 140 type test as per DIN 52210-03 achieving a rating of up to 51dB Rw.
Fire tested to BS476: Part 20/22: 1987 to 60 minutes.
Smoke tested to BS EN 1634-3: 2004.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Maximum Trimmed Length</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1218</td>
<td>330mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>280mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1219</td>
<td>430mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>295mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1220</td>
<td>530mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>380mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1221</td>
<td>630mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>480mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1222</td>
<td>730mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>580mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1223</td>
<td>830mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>680mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1224</td>
<td>930mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>780mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1225</td>
<td>1030mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>880mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1226</td>
<td>1130mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>980mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1227</td>
<td>1230mm</td>
<td>Acoustic Plus 51dBc Drop Down Seal</td>
<td>1080mm</td>
<td>5</td>
</tr>
<tr>
<td>FS999</td>
<td></td>
<td>End caps to suit Acoustic Plus Drop Down Seal</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

Special sizes available to order: 1330mm-1430mm-1530mm-1630mm-1730mm-1830mm
Flash

Designed to work with Acoustic Plus drop down seals - for double leaf timber door sets
Acoustically tested achieving up to 35dB Rw

A unique solution to fitting rebated flush bolts in conjunction with drop down seals. The patented Flash seal works as an extension element exclusively with the Acoustic Plus 51 Drop Down Seal.

Features and Benefits

- Soft TPV seal (lateral and frontal), for acoustic sealing
- Seal is manually lowered on handle side
- 10 mm maximum drop
- Springs in galvanised steel

Acoustic Performance and Fire Testing

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 35dB Rw.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1243</td>
<td></td>
<td>Flash extension for Acoustic Plus Drop Down Seal</td>
<td>1</td>
</tr>
<tr>
<td>FS1244</td>
<td>150mm</td>
<td>Stainless steel flush bolt radiused ends-suits FS124</td>
<td>1</td>
</tr>
</tbody>
</table>
Applique 37

Surface mounted for retro fitting on timber door sets
Acoustically tested achieving up to 37dB Rw

Features and Benefits

• Screw fix (screws supplied)
• Can be fitted to inside (lock side using bumper provided), or outside of the door (non lock side)
• Satin Anodised Aluminium finish - Also available in White, Brown and Gold anodised to special order
• Seal drops on hinge side before lock side
• 14 mm maximum drop
• Galvanized steel flat springs and reinforced actuators
• 4-fin high quality ‘V’ zero class PVC rubber seal, self extinguishing

Acoustic Performance and Fire Testing

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 37dB Rw.

Fire tested to BS476: Part 20/22: 1987 to 60 minutes.

Smoke tested to BS EN 1634-3: 2004.

Code  Length  Description  Finish  Maximum Trimmed Length  Pack Outers

FS1228  330mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  310mm  5
FS1229  430mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  310mm  5
FS1230  530mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  380mm  5
FS1231  630mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  480mm  5
FS1232  730mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  580mm  5
FS1233  830mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  680mm  5
FS1234  930mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  780mm  5
FS1235  1030mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  880mm  5
FS1236  1130mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  980mm  5
FS1237  1230mm  Applique 37dB-Drop Down Seal  Satin Anodised Aluminium  1080mm  5

Special sizes available to order: 1330mm-1430mm-1530mm-1630mm-1730mm-1830mm

01305 257 428  sales@firestopltd.co.uk  firestopltd.co.uk
Glass 37

Surface mounted for glass doors
Acoustically tested achieving up to 37dB Rw

Features and Benefits

- Fixing by high quality prefitted double-sided adhesive tape
- Can be fitted to inside (lock side using bumper provided), or outside of the door (non lock side)
- Satin Anodised Aluminium finish
- Seal drops on hinge side before lock side
- 14 mm maximum drop
- Minimum glass thickness 6 mm
- Galvanized steel flat springs and reinforced actuators
- 4-fin high quality 'V' zero class PVC rubber seal, self extinguishing

Acoustic Performance and Fire Testing

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 35dB Rw.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Finish</th>
<th>Maximum Trimmed Length</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1242</td>
<td>830mm</td>
<td>Glass 37dB-Drop Down Seal</td>
<td>Satin Anodised Aluminium</td>
<td>680mm</td>
<td>5</td>
</tr>
<tr>
<td>FS1248</td>
<td>930mm</td>
<td>Glass 37dB-Drop Down Seal</td>
<td>Satin Anodised Aluminium</td>
<td>780mm</td>
<td>5</td>
</tr>
</tbody>
</table>

Special sizes available to order:
330mm-430mm-530mm-630mm-730mm-1030mm-1130mm-1230mm-1330mm-1430mm-1530mm-1630mm-1730mm-1830mm
Coral

Application: Wooden door assemblies
Acoustically tested achieving up to 35dB Rw

Acoustic meeting stile for double action door leaves.
Can be flush fitted or rebated.

Features and Benefits

- Min / Max Gap: 3 – 8 mm
- Satin Anodised Aluminium finish
- Screw fix (screws supplied)
- PVC seal for acoustic performance

Acoustic Performance

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 35dB Rw.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Colour</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1239</td>
<td>2.1mtr</td>
<td>Meeting Stile Seal - Double action</td>
<td>Satin Anodised Aluminium</td>
<td>1</td>
</tr>
<tr>
<td>FS1241</td>
<td>2.5mtr</td>
<td>Meeting Stile Seal - Double action</td>
<td>Satin Anodised Aluminium</td>
<td>1</td>
</tr>
</tbody>
</table>
Lamal

Application: Wooden door assemblies
Acoustically tested achieving up to 35dB Rw

Acoustic meeting stile for double action door leaves.
Can be flush fitted or rebated.

Features and Benefits

• Min / Max Gap: 3 – 8 mm
• Satin Anodised Aluminium finish
• Screw fix (screws supplied)
• PVC seal for acoustic performance

Acoustic Performance

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 35dB Rw.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Colour</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1238</td>
<td>2.1mtr</td>
<td>Meeting Stile Seal - Single action</td>
<td>Satin Anodised Aluminium</td>
<td>1</td>
</tr>
<tr>
<td>FS1240</td>
<td>2.5mtr</td>
<td>Meeting Stile Seal - Single action</td>
<td>Satin Anodised Aluminium</td>
<td>1</td>
</tr>
</tbody>
</table>
Perimeter Seals

Corner Seal
Acoustically tested achieving up to 39dB Rw

Background

All doors need a gap between the perimeter of the door and the door frame to allow the door to function correctly. These gaps allow doors to be opened and closed easily and accommodate any expansion/movement within the building. Consequently these gaps also allow sound, smoke, fire, heat (hot & cold) etc. to permeate through the doorset assembly.

Approved Doc E

The acoustic requirements of doorsets are set out in the above document, and specifies what must be achieved in order to be compliant within the building regulations. The Firestop range of Acoustic Corner Seals have been specially designed to provide an effective barrier to seal perimeter gaps in pedestrian doorset assemblies, achieving a noise reduction of Rw39dB (tested). The fitting of a Acoustic Perimeter Seal will help to dramatically improve the effectiveness of the doorset assembly, in terms of noise permeation, smoke and air movement through the perimeter gap.

Product Features

- Unique easy fit product
- Achieved 39dB reduction unaided
- Eliminates the need for a separate smoke seal
- Engineered size to avoid over lapping door ironmongery
- Supplied with a high performance self adhesive backing
- Excellent compression and deflection performance
- Reduced door closing force due to a low co-efficient material used in integral fins

Product Range

Available in packs of 40 x 2.1m lengths in the following colours:

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Colour</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1404</td>
<td>2.1mtr</td>
<td>Corner Seal (39dB)</td>
<td>White</td>
<td>40</td>
</tr>
<tr>
<td>FS1405</td>
<td>2.1mtr</td>
<td>Corner Seal (39dB)</td>
<td>Brown</td>
<td>40</td>
</tr>
<tr>
<td>FS1407</td>
<td>2.1mtr</td>
<td>Corner Seal (39dB)</td>
<td>Black</td>
<td>40</td>
</tr>
</tbody>
</table>

Longer lengths to suit larger leaf sizes are available to order.

Acoustic Performance and Fire Testing

Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 37dB Rw.

Fire tested to BS476: Part 20/22: 1987 to 60 minute.

Smoke tested to BS EN 1634-3: 2004.
Perimeter Seals

Corner Seal
Acoustically tested achieving up to 39dB Rw

Background
All doors need a gap between the perimeter of the door and the door frame to allow the door to function correctly. These gaps allow doors to be opened and closed easily and accommodate any expansion/movement within the building. Consequently these gaps also allow sound, smoke, fire, heat (hot & cold) etc. to permeate through the doorset assembly.

Approved Doc E
The acoustic requirements of doorsets are set out in the above document, and specifies what must be achieved in order to be compliant within the building regulations. The Firestop range of Acoustic Twin Fin Seals have been specially designed to provide an effective barrier to seal perimeter gaps in pedestrian doorset assemblies, achieving a noise reduction of Rw35dB. The fitting of a Acoustic perimeter Seal will help to dramatically improve the effectiveness of the doorset assembly, in terms of noise permeation, smoke and air movement through the perimeter gap.

Product Features
- Compact designed seal ideal for hygiene and clean rooms
- Reduces door binding
- No need to fit separate smoke seals
- Engineered size to avoid over lapping door ironmongery
- Supplied with a high performance self adhesive backing
- Excellent compression and deflection performance
- Reduced door closing force due to a low co-efficient material used in integral fins

Product Range
Available in packs of 70 x 2.1m lengths in the following colours:

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Description</th>
<th>Colour</th>
<th>Pack Outers</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1400</td>
<td>2.1mtr</td>
<td>Twin Blade Seal (35dB)</td>
<td>White</td>
<td>70</td>
</tr>
<tr>
<td>FS1401</td>
<td>2.1mtr</td>
<td>Twin Blade Seal (35dB)</td>
<td>Brown</td>
<td>70</td>
</tr>
<tr>
<td>FS1411</td>
<td>2.1mtr</td>
<td>Twin Blade Seal (35dB)</td>
<td>Black</td>
<td>70</td>
</tr>
</tbody>
</table>

Acoustic Performance and Fire Testing
Acoustic testing undertaken in accordance with BS EN ISO 140-3:1995 achieving a rating of up to 37dB Rw.

Fire tested to BS476: Part 20/22: 1987 to 60 minutes.

Smoke tested to BS EN 1634-3: 2004
Firestop Limited
4 - 6 Wyvern Buildings
Grove Trading Estate
Dorchester
Dorset DT1 1ST

01305 257 428 sales@firestopltd.co.uk firestopltd.co.uk