

EXPANSION JOINT SEAL - Installation Guide



Introduction

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in walls and floors using the Astro EJ SEAL.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

The key points for intumescent passive fire protection products are :-

- Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.
- Maintain the integrity of escape routes from a building.
- Reduce loss or damage to property from the effect of fire and smoke.
- Maintain pressure differential between compartments and ventilation channels.

THE ASTRO EJ SEAL SYSTEM

Astroflame EJ seal is a flexible and compressible fire retardant foam strip which is factory coated with a heat reactive intumescent, and is designed to maintain the fire resistance of compartment walls and floors where designed movement / expansion joints are required. At normal temperatures the Astro EJ Seal remains flexible to permit thermal, mechanical and seismic movements between joints in a building structure.

Gap widths up to 100mm wide can be accommodated, and ASTRO EJ SEAL is supplied in easy to handle lengths of 1 Metre. The graphite intumescent is unaffected by atmospheric moisture making it suitable for use in areas of high humidity or moisture content

Installation

The joint surfaces must be clean, dry and free from any debris and dust should be removed

Check that the section size of the Astro EJ Seal is correct for the gap width and fire rating required

Ensure that the void into which the Astro EJ Seal is to be installed is free from debris throughout the full length.

Clear any obstructions within the void prior to commencing installation.

Compress the Astro EJ Seal sufficiently to enable the section to be positioned within the void central to the thickness of the blockwork and remain in place supported by its own compression.

To ensure the integrity of the seal over its full length, [Astroflame Intumescent Mastic](#) can be applied to all butt joints between each 1 metre length of ASTRO EJ Seal. The mastics can also be used on the edge to ensure the product does not move or fall away.

Astroflame Intumescent Mastic can also be applied to the exposed face of the joint if required.

Gap Width	Dimension of Seal	Integrity	Product Ref
		120 Min	
up to 10mm	12mmx12mm	120 min	AFEJ10/120
11mm to 20mm	29mmx12mm	120 min	AFEJ20/120
21mm to 25mm	32mmx20mm	120 min	AFEJ25/120
26mm to 35mm	53mmx20mm	120 min	AFEJ35/120
36mm to 50mm	64mmx35mm	120 min	AFEJ50/120
50mm to 60mm	85mmx40mm	120 min	AFEJ60/120
61mm to 75mm	90mmx50mm	120 min	AFEJ75/120
76mm to 100mm	126mmx100mm	120 min	AFEJ100/120
101mm to 120mm	147mmx125mm	120 min	AFEJ120/120
121mm to 150mm	170mmx100mm	120 min	AFEJ150/120
		240 Min	
up to 10mm	12mmx25mm	240min	AFEJ10/240
11mm to 20mm	29mmx25mm	240min	AFEJ20/240
21mm to 25mm	32mmx30mm	240min	AFEJ25/240
26mm to 35mm	53mmx30mm	240min	AFEJ35/240
36mm to 50mm	64mmx50mm	240min	AFEJ50/240
51mm to 75mm	85mmx75mm	240min	AFEJ75/240
76mm to 100mm	126mmx125mm	240min	AFEJ100/240
101mm to 125mm	147mmx125mm	240min	AFEJ125/240
126mm to 150mm	170mmx125mm	240min	AFEJ150/240

Compliance

Astro EJ SEALS are manufactured in the EU, meeting the highest quality standard in compliance with ISO EN 9001:2000 . For fire test certification contact Astroflame Fireseals technical department.

Fire Test or Assessment Reports

BS Standard 476 Part 20
Report no : C 201815

Storage and disposal

Astro EJ Seals are not affected by the outdoor environment. However for long term storage and ease of installation, it is recommended that they should be stored indoors. No shelf life is given as this product will not deteriorate in storage.

For additional testing, certification or technical information please contact ASTROFLAME FIRESEALS LTD.

Issue 01/03

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