

# FRAMEFIT TECHNICAL DATA SHEET

Protecting People, Property & Planet



## Introduction to FrameFit

FrameFit is the ultimate gap remediation system for fire doors.

In the UK alone there is estimated to be 30 million non-compliant fire doors. 80% of these doors fail due to them having excessive gaps between the door and frame. The gaps are predominately found on lock side (closing side) However, a large number also have issues on the head and bottom of the door. FrameFit is a fully tested solution addressing a huge non-compliance issue. FrameFit will not only be a much more cost-effective but will also save many thousands of fire doors from being discarded annually.

## What is FrameFit?

The system comprises of preformed fillets of intumescent and charring material with a decorative finish used in conjunction with a fire rated spacer fillet. The spacers will have a range of sizes available to suit the varying gap sizes.

## Regulations and Certifications

Fire door manufacturers are required to test their doors by subjecting them to a test procedure as specified in BS 476-22:1987 or BS EN 1634-1:2014.

The Regulatory Reform (Fire Safety) Order 2005 reforms the law relating to fire safety in non-domestic premises. This order drives the industry where Frame Fit is concerned.

## Excessive Gaps

UK fire door regulations state that gaps on hinge, lock and top of door are to be not less than 2mm and no more than 4 mm. On the bottom of a fire door gaps are to be no more than 8mm for Fire Only and no more than 3mm on Fire & Smoke Doors.

## How to use FrameFit

Please refer to the detailed installation instructions for both FrameFit and the Bottom Door Seal. These also have details of how to measure a door and how to recognise the type of door you are working on.

## Scope of Works

At some point every property requiring fire doors will be subject to a Fire Risk Assessment (FRA). The results of an FRA dictates whether or not a door & frame is compliant.

If a door is failed due to excessive gaps, up until now a new Fire Door would have to be installed by an accredited and certified installer. The new FrameFit system remediates all gaps issues and can be fitted by a suitably trained operative.

## Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Data Sheet containing physical, ecological, toxicological and other safety-related data.

- Keep out of the reach of children.
- Take the usual industrial hygiene precautions. No specialist PPE is required.
- Cut using a Miter Cutter with the appropriate hand protection. Take extra care if using any other cutter or knife.

## Legal Notes

The Information, and the recommendations in relation to the application and end-use of FrameFit fire-rated system, are given in good faith based on our current knowledge and experience of the products when properly stored, handled, and applied under normal conditions.

## Shelf Life

FrameFit has an endless shelf life.

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## Properties

- Tested according to BS1634-1 & BS 476 Part 22
- Fire retardant up to 60 minutes.
- Semi-rigid material with minimal compression.
- Totally REACH compliant.
- Completely stable for installation at temperatures between -30C and +50C.
- Contributes to high thermal and acoustic insulation value.
- Can be easily cut, trimmed and shaped.
- No Shrinkage.
- Mould and water resistant.
- Vicat softening point of 90C.

## Technical Properties

- Vicat softening point of 90C
- UL94 V0 Flame Spread
- Specific gravity 1400kg/m<sup>3</sup>
- Shore "A" hardness 89

## FrameFit Components & Product References

### High Expansion Intumescent & Smoke Seal

HE1.5/44 (FD30) – HE1.5/54 (FD60)

Thickness 1.5mm 5.2 boxed rolls

### Low Modulus Spacer Profiles - FD30 44mm wide - FD60 54mm wide - available in 1.5mm, 3mm & 5mm thickness boxed in 5.2mm coils

FD30 44mm wide x thickness: LM1.5/44, LM3/44, LM 5/44

FD60 54mm wide x thickness: LM1.5/54, LM3/54, LM5/54

### Bottom Door Seal - Widths to suit FD30s 44mm & FD60s 54mm

Standard Length - 1 Metre (Longer lengths available on request).

Fully tested and compliant to BS 478 Part 22 & BS EN 1634-1

All boxed in 5.2m rolls

## Gap size/Components Guidance

If the existing intumescent & smoke seals are in the frame NB, the top layer of the FrameFit System must be the appropriate HE1.5 profile.

Measure the gap size and use the appropriate FrameFit material to achieve the required 2mm to 4mm gap.

## Application Areas

Upgrade/ correction of gaps around the perimeter of a fire door.

## Packaging

Each variant of FrameFit will be packaged in 5.2m long coils in a cardboard 'pizza' box to ensure it is kept clean and safe. The Bottom Door Seal will be 1m long, packaged in a Poly Lay Flat Sleeve.



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## Performance

### 30 minute timber door

Door Core Type	Frame Material	Min Frame Gap	Max Frame Gap	Tested to
GDC Stile and Rail Solid Timber PS24	MDF Softwood min density 450kg/m <sup>3</sup> Hardwood min density 610kg/mg <sup>3</sup>	22mm Hinge, Head and Lock side 2mm	4mm Hinge, 12mm Head, 15mm lock side and 24mm Bottom	BS EN 1634-1 & BD476 part 22.

### 60 minute timber door

Door Core Type	Frame Material	Min Frame Gap	Max Frame Gap	Tested to
GDC	MDF Softwood min density 450kg/m <sup>3</sup> Hardwood min density 610kg/mg <sup>3</sup>	22mm Hinge, Head and Lock side 2mm	4mm Hinge, 12mm Head, 15mm lock side and 24mm Bottom	BS EN 1634-1 & BD476 part 22.

