

Sealing Frames to Structure

TDS96/170626

Sealing Between Fire Resisting Door Assemblies and the Surrounding Structure

In order to maintain the fire resistance and smoke control of a door assembly, the junction between the door frame and the surrounding structure should be adequately sealed. The following are the acceptable fire stopping scenarios for each doorset range and are based on the relevant Field of Application reports.

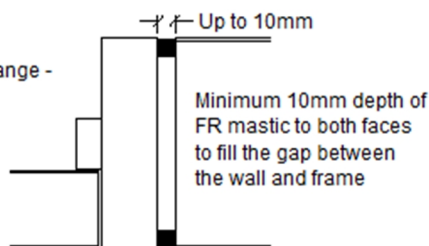
The structural opening for the door assembly should be prepared to a size including any permissible clearance. Where gaps between the door frame and structure exceed 20mm options are available for DSP, DSTm and Safehinge to incorporate a timber based or non-combustible subframe on site, however, this must be formed in a specific manner in accordance with the relevant Field of Application report so please speak to our team for further advice.

As outlined in BS 8214: 2026 and the relevant Field of Application Reports, the chosen sealant (fire rated acrylic intumescent mastic and/or PU Expanding Foam) must have been fire tested for this application to BS 476: Part 22 or BS EN 1634-1. The use of sealant should be limited to the scenarios described by the products supporting evidence, which should include the frame material, type of supporting construction, maximum width and required depth of sealant, architrave requirements and period of fire resistance.

Mastic and Mineral Rock Fibre Options

FD30(S)

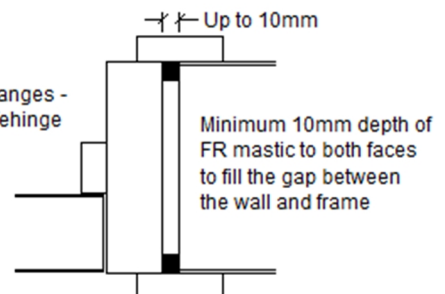
Permitted door range - DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD30(S)

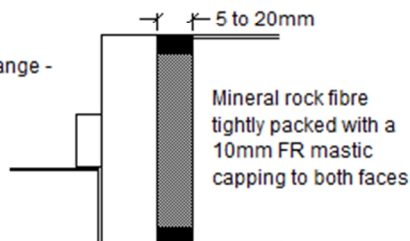
Permitted door ranges - DSTm, DSA, Safehinge



Minimum 15mm (18mm DSTm) thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD30(S)

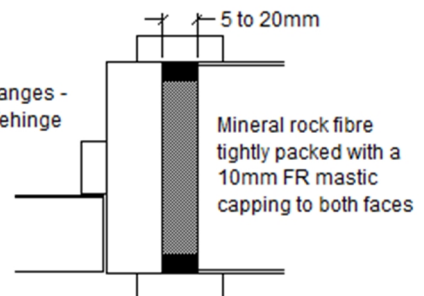
Permitted door range - DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD30(S)

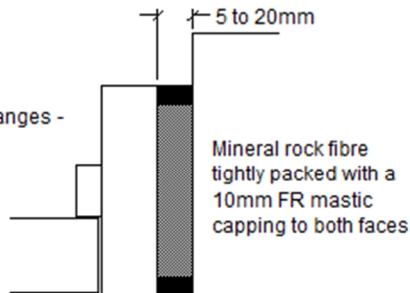
Permitted door ranges - DSTm, DSA, Safehinge



Minimum 15mm (18mm DSTm) thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD30(S)

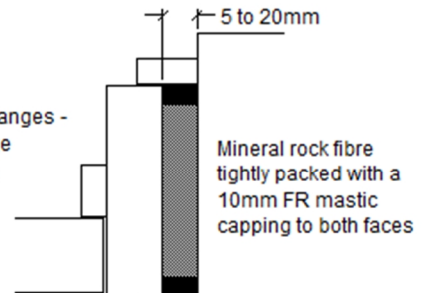
Permitted door ranges - DSP
(Blockwork only)



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD30(S)

Permitted door ranges - DSTm, Safehinge
(Blockwork only)



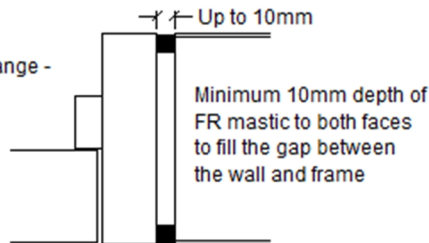
Minimum 18mm thick architrave tightly fitted between wall and frame and lapped onto frame by 15mm, softwood, hardwood or MDF

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Mastic and Mineral Rock Fibre Options (Continued)

FD60(S)

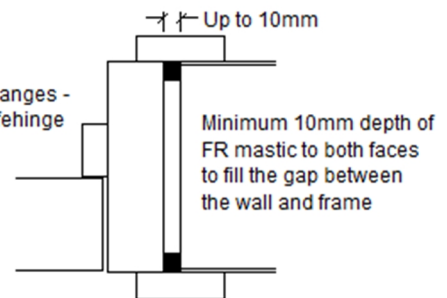
Permitted door range -
DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD60(S)

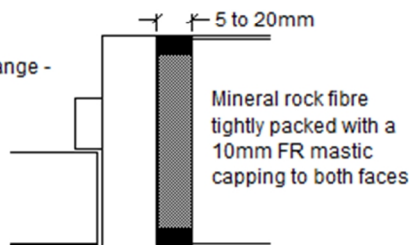
Permitted door ranges -
DSTm, DSA, Safehinge



Minimum 15mm thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD60(S)

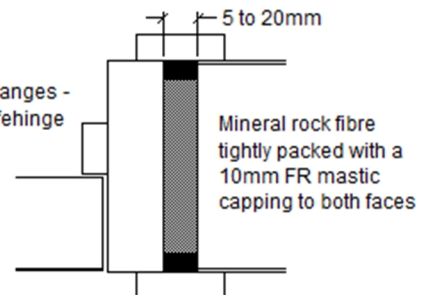
Permitted door range -
DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD60(S)

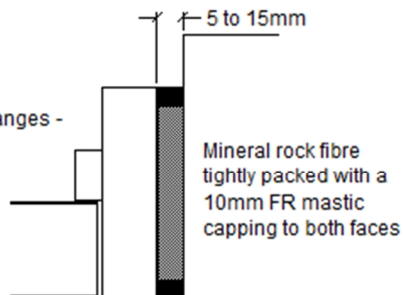
Permitted door ranges -
DSTm, DSA, Safehinge



Minimum 15mm thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD60(S)

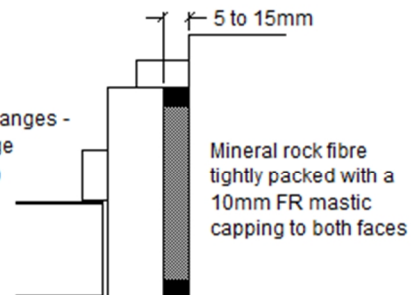
Permitted door ranges -
DSP
(Blockwork only)



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD60(S)

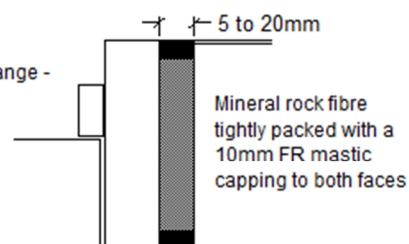
Permitted door ranges -
DSTm, Safehinge
(Blockwork only)



Minimum 18mm thick architrave tightly fitted between wall and frame and lapped onto frame by 15mm, softwood, hardwood or MDF

FD90(S)

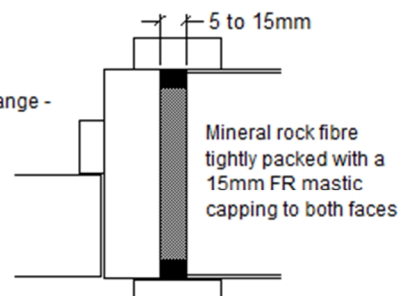
Permitted door range -
DSP90



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD120(S)

Permitted door range -
DSPM120



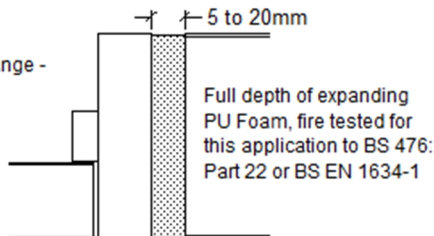
Minimum 18x45mm architrave lapped onto frame and wall by 15mm, hardwood or MDF

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Expanding PU Foam Options

FD30(S*)

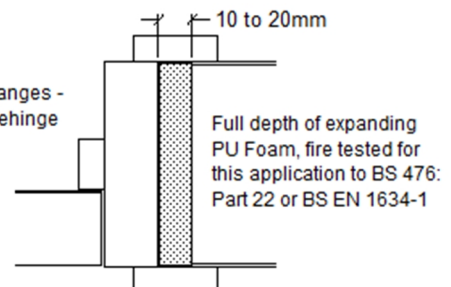
Permitted door range -
DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD30(S*)

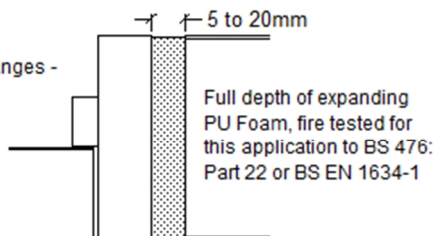
Permitted door ranges -
DSTm, DSA, Safehinge



Minimum 15mm (18mm DSTm) thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD60(S*)

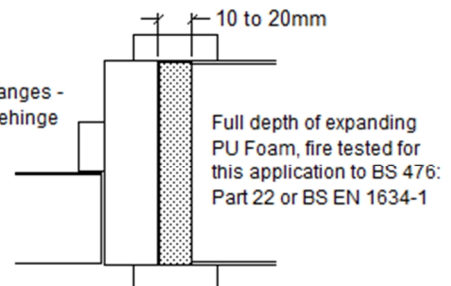
Permitted door ranges -
DSP



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD60(S*)

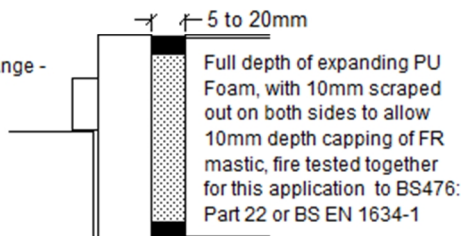
Permitted door ranges -
DSTm, DSA, Safehinge



Minimum 15mm thick architrave lapped onto frame and wall by 15mm, softwood, hardwood or MDF (DSA Hardwood)

FD90(S)

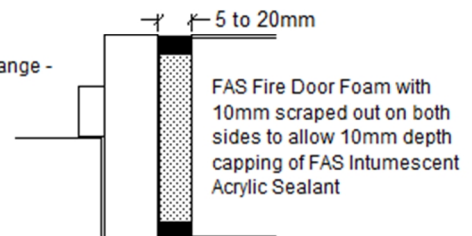
Permitted door range -
DSP90



If the evidence for the firestopping used included architraves, they must be fitted as tested. Otherwise these are optional.

FD120(S)

Permitted door range -
DSPM120



Architrave optional

BS 8214: 2026 refers to the supporting structure as being 'unlikely or likely to exhibit significant distortion during fire exposure'. For example 'unlikely' would be masonry or non-loadbearing timber stud walls and 'likely' would be steel stud or load bearing timber stud walls.

Where denoted as (blockwork only) above, this would include masonry or non-loadbearing timber stud walls.

Where denoted (S*) above, it is important to check that the expanding PU foam has supporting evidence for smoke performance. For further advice on specific expanding PU foams please refer to our technical data sheet No. 202.

The use of glass fibre or glass wool is not an acceptable alternative to the tightly packed mineral rock fibre requirement.

Where architraves are relied on as part of the seal arrangement they should be mechanically fixed. In instances where architraves are fixed with adhesive the sealing method should be one that does not rely on the architrave.