Datasheet

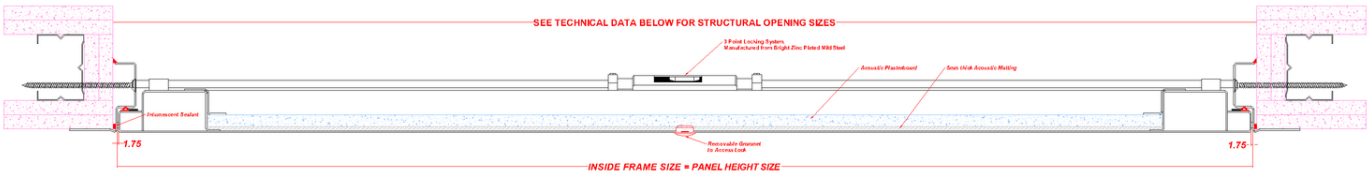
# R51/120S/MD/BF/L12A/4D/36A

## Description

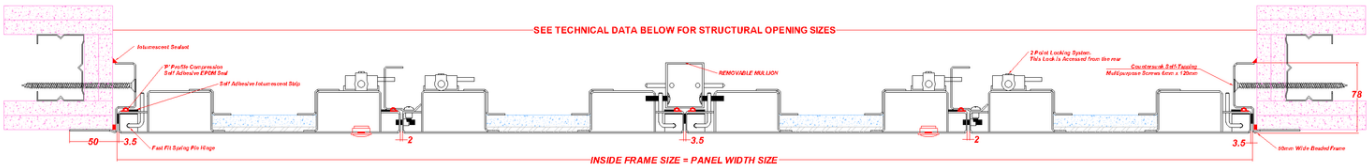
Premium Riser Door, Supplied with a Spring Pin Hinge System, 1.2mm Thick Door Leaf, 1.5mm Thick Frame, 2 Hour fire rated & Ambient Smoke Control Tested, Metal Door, Beaded Frame, 3 Point Locking System, 4 Door Unit, 36 dB Acoustic Rated, Powder Coated RAL 9010 30% Gloss.

| PRODUCT TYPE | FIRE RATING | SMOKE TESTED | DOOR TYPE | FRAME TYPE | MASTER LOCK TYPE | SECONDARY LOCK TYPE | NUMBER OF DOOR LEAVES | AIRTIGHT RATED | ACOUSTIC RATED |
|---|---|---|---|---|---|---|---|---|---|
| | 2hr | | | | 1 2 3 | N/A | 4D | N/A | 36A |

## Section Drawing Height (H)




## Section Drawing Width (W)




## Technical Data

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|---|---|
| Wall or Ceiling or Both (Dual) | Wall |
| Fire Rating | • 2 Hour Fire Rated |
| Fire Test Standard | • BS EN 1634-1: 2014+A1:2018 |
| Fire Performance Rating | • Integrity (E) |
| Fire Tested Side | • Wall application Face (Room Side / opening towards the fire risk side) |
| Fire Tested Size H x W mm | 2400x2500mm |
| Assessed Maximum Panel Sizes | Up to 15% increase in height, 15% width and up to 20% area. |
| Smoke Test Standard | BS EN 1634-3: 2004 |
| Airtightness Tested | No Rating |
| Acoustic Test Standard | BS EN ISO 10140-2: 2010 |
| Acoustic Rating | 36dB |
| Corrosion class C1, C2, C3, C4 | C1 - Very Low: Exterior: Not suitable for outdoor use. Interior: Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels. |
| Flexible Wall Types | • The wall type shall provide a suitable medium to permit adequate fixity.<br>• Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant<br>• Plasterboard clad partitions<br>• Plasterboard clad timber stud partitions (exposed studs are not covered)<br>• Plasterboard clad steel stud partitions (exposed studs are not covered)<br>• The aperture must be lined with either 1No, 2No or 3No. layer(s) of 12.5mm or 15mm thick Type F plasterboard (EN520)<br>• Facing boards to the walls must be mechanically fixed with steel fixings at a minimum of 300mm centres |
| Rigid Wall Types | • The wall type shall provide a suitable medium to permit adequate fixity. |

| | |
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| | • Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant<br>• Masonry constructions (wall thickness and overall density must be equal to or greater than 140mm thick and 850 kg/m3).<br>• Concrete walls (excluding no fines concrete) (wall thickness and overall density must be equal to or greater than 140mm thick and 850 kg/m3)<br>• It is optionally permitted for the structural opening to be lined with up to 3No. layer(s) of 12.5mm or 15mm thick Type F<br>• Facing boards to the walls must be mechanically fixed with steel fixings at a minimum of 300mm centres |
| Shaftwall Types | • Currently not Covered |
| Mixed Construction Wall Types | • Currently not Covered |
| Ceiling Types | • Not Suitable for a Ceiling Application |
| Frame Fixing Types | • Metal Studding: Minimum 5mm x 60mm Penetration into the Steel Studding Countersunk Self Drilling Drywall Screws<br>• Masonry: Minimum 7.5mm x 80mm Spax Type Self Drilling Frame Anchor Screws |
| Frame Fixing Hole Distance back from the Face of the Panel | • 52mm<br>• A range of 40mm to 65 mm are available upon request |
| Permitted Gaps Between the Rear of the Frame and the Structural Opening | • 2mm Height x 2mm Width on Blockwork Masonry or Concrete<br>• 8.5mm Height x 8.5mm Width on Plasterboard clad timber or steel stud partitions & the Knauf shaftwall system designs, as detailed under Wall Types. |
| Permitted Sealants | • Mann McGowan Pyromas A<br>• Rockwool Fire Pro Intumescent Sealant<br>• Fire-tested alternative sealants to BS EN 1363-1 or BS EN 1634-1 for the required fire resistance duration and substrates in this application. |
| Application of Intumescent Sealants | • Applied Behind the Frame to the Frame Jamb prior to installation<br>• Applied Sealing the Rear of the Frame to the Structural Opening |
| Structural Opening Size | • Panel Height Size + 7mm x Panel Width Size + 7mm |
| Panel Size Formula H x Wmm | Inside Frame Size |
| Composition / Manufacturing | |
| Quality Category | Premium Range |
| Product Design Category | Bespoke / Special Configuration Product |
| Ironmongery Details | • 3 Point Locking System. Bright Zinc Plated Mild Steel<br>• Fast Fit Spring Pin Pivot Hinge manufactured from electroplated steel |
| Lock Security Level | Grade 1 – Low Security |
| Frame Architrave Width (e.g. Picture / Beaded Frame) | • 50mm |
| Frame Steel Thickness | 1.5mm |
| Door Steel Thickness | 1.2mm |
| Door & Frame Material Grade | • Frame: Zintec Steel to BS EN 10152 : 2017 DC01 + ZE 25/25<br>• Door Leaf: Zintec Steel to BS EN 10152 : 2017 DC01 + ZE 25/25 |
| Frame Depth | 78mm |
| Board Infill Type | • 12.5mm Thick GTEC dB Board |
| Door Insulation Type | • 5mm Thick IsoBase R50 |
| Seal Type | • 9mm x 5.5mm White 'P' Profile Compression Self Adhesive Neoprene Seal<br>• Envirograph G10/10 10mm x 2mm Self Adhesive Intumescent Strip<br>• Sealed to All Door Closing Edges |
| Paint Type | • Polyester Powder Coated<br>• RAL 9010 30% Gloss Pure white |

## Installation Guide

1) Open the door, release the Spring Pin hinge system, and lift the door out of the frame.

2) Place the frame in the aperture, ensuring it's 7mm larger than the panel size. Mark the hinge and door retaining pin positions.

3) Remove the frame, drill clearance holes for the marked positions.

4) Fix the frame into the aperture using all fixing holes, ensuring it is square and flush with the wall. Apply Intumescent Sealant to the rear of the Beaded Frame on the frame jamb before installation.

5) Refit the door by placing the lower Spring Pin hinge pin, sliding the top hinge pin until fully located, and closing the door. Apply sealant to the frame's rear, nominally 5mm wide sealing to the structural opening.

6) Lock the door with the key, ensuring it is flush with the frame.

**Independent bracing or support may be needed for the Riser Door weight.**

**Before applying the plaster skim coat, apply joint filler and scrim tape over the junction between the beaded frame and plasterboard to prevent cracking.**