Datasheet

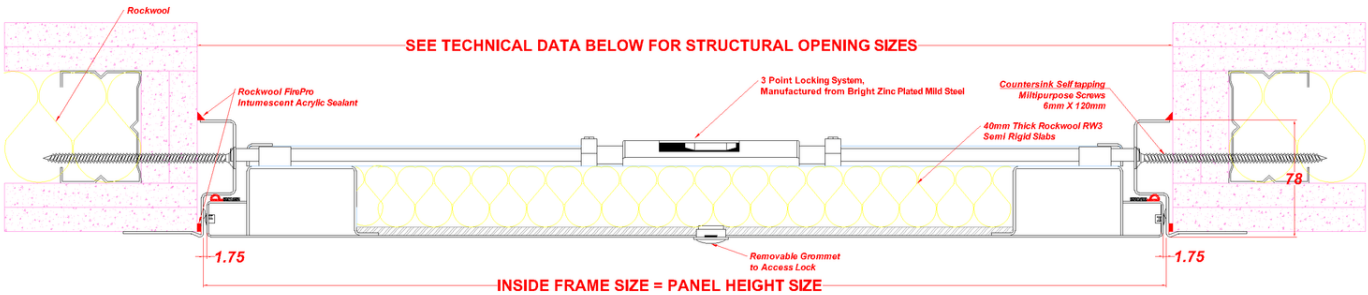
R51/120S/MD/BF/L12A/40A

Description

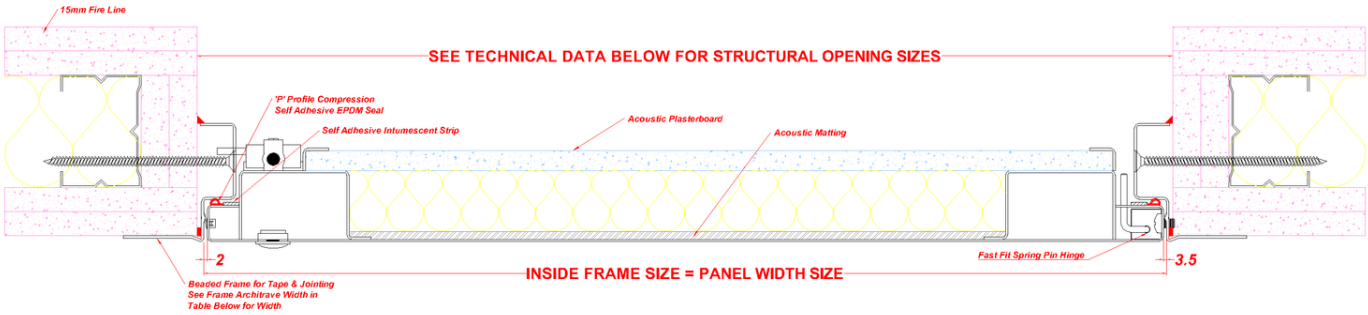
Premium Riser Door, Supplied with a Spring Pin Hinge System, 1.2mm Thick Door Leaf, 1.5mm Thick Frame, 2 Hour fire rated & Ambient Smoke Control Tested, Metal Door, Beaded Frame, 3 Point Locking System, Single Door Unit, 40 dB Acoustic Rated, Powder Coated RAL 9010 30% Gloss.

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				2 1 3	N/A	1D	N/A	40A

Section Drawing Height (H)



Section Drawing Width (W)



Indicative Product Images (Colour and door handing may differ from that shown)

Technical Data	
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 Both Sides (Bidirectional / opening in either direction with respect to the fire risk side)
Fire Tested Size H x W mm	2400x900mm
Assessed Maximum Panel Sizes	Up to 15% increase in height, 15% width and up to 20% area.
Size range: Minimum to maximum (H × W mm). Fire Rated Panels: See assessed maximum panel sizes for allowable increases.	1797x448mm up to 2400x900mm
Smoke Test Standard	BS EN 1634-3: 2004
Airtightness Tested	No Rating
Acoustic Test Standard	BS EN ISO 10140-2: 2010
Acoustic Rating	40dB
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. • Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant • Plasterboard clad partitions • Plasterboard clad timber stud partitions (exposed studs are not covered) • Plasterboard clad steel stud partitions (exposed studs are not covered) • The aperture must be lined with either 1No, 2No or 3No. layer(s) of 12.5mm or 15mm thick Type F plasterboard (EN520) • 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. • Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant • Masonry constructions (wall thickness and overall density must be equal to or greater than 140mm thick and 850 kg/m3). • Concrete walls (excluding no fines concrete) (wall thickness and overall density must be equal to or greater than 140mm thick and 850 kg/m3) • 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 • Facing boards to the walls must be mechanically fixed with steel fixings at a minimum of 300mm centres
Shaftwall Types	• The wall type shall provide a suitable medium to permit adequate fixity. • Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant • KNAUF SYSTEMS • Knauf Shaftwall: J-Channel & Deep Flange U-Channel frame with CT Studs, 100mm Rocksilk RS60 insulation, lined with 3x15mm Knauf Fire Panel boards to the front & 1x19mm Knauf Coreboard to the rear • Knauf Shaftwall: The aperture must be lined out with 3no layers of 15mm thick Knauf Fire Panel plasterboard.
Mixed Construction Wall Types	• The wall type shall provide a suitable medium to permit adequate fixity.

	• Other rated wall constructions, not listed below, may also be acceptable, subject to expert advice from a qualified fire consultant • Rigid Plinth: 75–250mm high above finished floor level. Located at the base of the structural opening; other sides use flexible wall construction
Ceiling Types	• Not Suitable for a Ceiling Application
Frame Fixing Types	• Metal Studding: Minimum 6mm x 120mm Countersunk Self Drilling Multi Purpose Screws • Shaftwalls: Minimum 6mm x 120mm Countersunk Self Drilling Multi Purpose Screws
Frame Fixing Hole Distance back from the Face of the Panel	• 52mm
Permitted Gaps Between the Rear of the Frame and the Structural Opening	• 2mm Height x 2mm Width on Blockwork Masonry or Concrete • 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	• Rockwool Fire Pro Intumescent Sealant
Application of Intumescent Sealants	• Applied Behind the Frame to the Frame Jamb prior to installation • Applied Sealing the Rear of the Frame to the Structural Opening
Structural Opening Size	• Panel Height Size + 10mm x Panel Width Size + 10mm
Panel Size Formula H x Wmm	Inside Frame Size
Clear opening size through the installed panel with the door leaf open at 90 degrees	• Panel Height - 50mm x Panel Width - 100mm
Composition / Manufacturing	
Quality Category	Premium Range
Product Design Category	Standard Product
Ironmongery Details	• 3 Point Locking System. Bright Zinc Plated Mild Steel • 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 • 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 • 40mm Thick Rockwool RW3
Seal Type	• 9mm x 5.5mm White 'P' Profile Compression Self Adhesive Neoprene Seal • Envirograph G10/10 10mm x 2mm Self Adhesive Intumescent Strip • Sealed to All Door Closing Edges
Paint Type	• Polyester Powder Coated • 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 Picture Frame 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.