R60 Fire Door System
Installation Manual Rev 02

See website resources
for latest revisions

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Contents

Permitted Installers

SOLIDCOR R60 Fire Door System must be fitted and installed by trained and competent personnel from installation companies who are UKAS accredited organisations. This is to ensure fitting and maintenance is carried out how it was fire and security tested and in line with the third-party certification (Internal doors) or UKCA Marking (External doors).

Installation Instructions

REMOVAL OF EXISTING DOORSETS

Whe carrying out remedial work and replacing existing doorsets, remove existing doorsets taking great care not to damage the property and surrounding walls, décor or coatings unnecessarily.

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Installation Instructions

PRE-INSTALL CHECKS

Before starting the install and removal of any existing doorset, check the new doorset size is correct for the aperture. Also check against the survey sheet that the door design and glazing design is correct, check the orientation of opening and that security glass to the outside (e.g. open in, or open-out). Check the handing of the doorset (LH or RH) is correct.

See below Pre-install check list:

R60 FIRE DOORSET - PRE-INSTALL CHECK LIST (before removal and disposal of packaging)	Correct Y/N	Checked By Name
Check doorset size correct for the aperture size before removal of any existing doorset		
Check doorset correct colour		
Check door and glazing design correct		
Check door orientation (open -in/open-out against survey sheet and that the security glass is to the outside		
Check handing of doorset correct against survey sheet		
Check you have the right fixings and number of fixings in your kit before starting install		
Check your kit for the right type and quantity of packers, foam and sealant before starting the install		
Check that any frame extensions are correct size and fixed correctly to the outer-frame		

IMPORTANT: SOLIDCOR R60 doorsets must be stored in a dry location prior to installation. Avoid prolonged exposure to moisture before installation as this could affect the performance of the doorset and invalidate the product guarantee.

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Installation Instructions

SUPPORTING CONSTRUCTION

The supporting construction may be timber or steel stud plasterboard partition, blockwork, brickwork or concrete walls, but shall be of a type that has been tested to provide in excess of 60 minutes fire resistance, at the required size, when incorporating door openings. If fitted into timber or steel stud partitions, the method of forming the door assembly aperture must be as tested by the partition and/or door assembly manufacturer.

Note: Any reference to steel stud partitions is in the context of permanent elements, such as those designed and proven by the plasterboard manufacturers – this report does not approve use of the proposed door assemblies in proprietary 'demountable' partitions, which must be subject to a full and independent appraisal of the particular system and door assemblies therein.

LOCATING THE DOORSET IN STRUCTURAL OPENING

Locating the doorset in the structural aperture correctly is key to the success of the installation. Make sure the frame is located vertical and plumb within the aperture.

APPROVED FIXING TYPES & METHOD OF FIXING

Through-frame fixings are used on the R60 system.

Timber door frames must be fixed back to the supporting construction with steel fixings at centres not exceeding 600mm on the vertical edges (minimum 150mm from the top and bottom). Screws shall be of sufficient length to penetrate the wall by at least 40mm and shall be positioned such that they are not exploited by charring of the frame (i.e. a minimum of 30mm in from the frame edge) irrespective of the direction of test exposure; (this may necessitate a twin line of screws). On the hinge side, we recommend fixing through the centre fixing hole on each 4 hinges through into the supporting construction and a central fixing to the head of the frame.

IMPORTANT: Check the plumb and levels of the doorset regularly during the fixing stage. This helps ensure the best result and a plumb doorset installation.

PACKING PERIMETER GAPS

Packers shall be used at all fixing positions, although if combustible or thermally softening packers are employed, they must be cut short and be capped with a layer of approved mastic and maintain compliance with one of the approved back of frame sealing methods.

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Installation Instructions

GAP SEALING PRODUCTS

The gap sealing between the supporting construction and timber frames should follow the recommendations given in Section 9.4 of BS8214: 2016, 'Timber-based fire door assemblies – Code of practice', using a product proven in such timber applications.

Gap sealing products used in conjunction with the 57mm thick Solidcor R60 door design must have been successfully fire tested for 60 minutes fire resistance in accordance with BS EN 1634-1:2014. In addition, they must meet all of the requirements detailed below:

- **Fire Test Pressure Regime:** Must have been successfully tested when sealing a gap located above the neutral pressure axis.
- **Supporting Contruction:** Must have been successfully fire tested when sealing a linear gap between the rear of a timber frame and a steel/timber stud partition, or be representative of the substrate into which it is being used.
- **Gap Size:** Must have been successfully fire tested when sealing a linear gap, equal to, or larger than, that proposed.
- **Sealant Depth:** Must be applied to a depth, equal to, or greater than, that used when it was fire tested and finish flush with the outer face of the door frame.

ARCHITRAVES

Where the face of the frame is flush with the face of the wall, loose architraves are optional, and have no fire performance requirements, and so can be freely specified, subject to suitable gap sealing fire stopping.

FINAL CHECKLIST

On completion of the installation a Final Checklist should be completed by the installer to make sure the essential fire and security integrity fixings and sealing is complete. A checklist should be completed on each installation and records uploaded onto the Door Data System or kept on file for the period of the guarantee.

A general checklist is provided in Appendix 1. We advise the installer carries out this checklist along with the customer or ideally the accountable person under the RRO. We also advise a toolbox talk on the User Guide is carried out with the customer and accountable person under RRO at point of hand-over of the keys.

DOORSET O&M (Operations & Maintenance)

O&M is critical to the on-going fire and security safety performance of the R60 Fire Doorset.

Maintenance is done by UKAS accredited installer schemes which include maintenance of fire doors and records of maintenance kept for the period of the guarantee which is 10 years. Training should be done to the written O&M Manual instructions which are available from Solidcor .

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Appendix 1

SOLIDCOR R60 Doorset Installation - Final Checklist	Correct Y/N	Checked By Name
FIXINGS CHECK		
Check correct fixings used and correct penetration length through frame into structural opening		
Check hinge side structural fixings go through the four hinges		
Check number of fixings correct		
Check spacing of fixings correct through-frame on lock-side jambs		
DOOR & PERIMETER FRAME GAPS CHECK		
Check perimeter gaps between frame and structural aperture within limits		
Check door gaps to 3mm and within tolerance 2.5mm to 4mm		
CHECK DOORSET & CLOSER OPERATION		
Check doorset installed in aperture plumb, square and vertical		
Check door leaf closes easily with the push of little finger before door closer arm connected		
Check correct fixing types and quantity of fixings used on all hardware and correctly tightened		
Check door closer power size, closing and latching speed adjusted correctly, and that the door closes with all windows closed		
Check Multi-point lock auto throw activates on strike plate		
Check handle operation and turn the key in euro cylinder and make sure door locks and un-locks easily		

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Appendix 1

SOLIDCOR R60 Doorset Installation - Final Checklist	Correct Y/N	Checked By Name
FINAL QUALITY CHECK		
Check Doorset is clean and all protective film removed		
Check exposed faces for door leaf and frame free from physical damage or contamination		
Check frame welds and any glazing for cracks		
Check structural (brickwork, lintel etc.) surrounding aperture not damaged		
Check all internal and external architrave and trims fitted correctly and excess sealant cleaned off surfaces		
Check gaps between frame and structure not too large and fully filled with approved Fire Rated Foam and Fire silicone Silicone		
FINAL HANDOVER CHECK		
Check Accountable (Responsible) Person under RRO has copy of toolbox talk		
Check O&M Manual given to Accountable (Responsible) Person under RRO		
Check keys handed over to correct person after completion		
Check photos of each stage of install either up-loaded to Door Data System APP or sent to accountable person under RRO		

Address:

Door Label No:

Installation Label No:

Signature

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