



T30 FED Fire Door System

Installation Manual Rev 01



See website resources
for latest revisions

[solidcor.co.uk](https://www.solidcor.co.uk)

SOLIDCOR
SAFE TODAY SAFE TOMORROW

Contents

Permitted installers	2
Installation manual	2
Removal of existing doorsets	2
Installation instructions	3
Before starting pre-install checks	3
Locating the doorset in structural opening	4
Approved fixing types & method of fixing	4
Fixing positions	4
Fixing a side light	5
Perimeter gap sealing & Intumescent Seals	5
Final inspection & registration	6
Apendix 1 – final checklist	7

Permitted Installers

SOLIDCOR T30 FED 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 in line with good practise and to maintain the Golden Thread.

Installation Manual

This is a controlled issue to ensure all registered installers automatically get updates of the latest methods and any revisions. Failure to install to the current manual may result in reduced levels of performance and may invalidate any applicable product guarantee and compliance. If in doubt call Solidcor for your latest version or visit our website under resources..

Removal of Existing Doorsets

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

Installation Instructions

BEFORE STARTING 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 is 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:

T30 FED 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		
Check that you have the required perimeter intumescent seals for fitting after frame installation.		

IMPORTANT: SOLIDCOR T30 FED 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.

Installation Instructions

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. If the structural sill is uneven or breaks away, Solidcor hardwood thresholds are permitted. Ensure this is mounted on DPC and the hardwood spanning the cavity.

If there is a Side Light please refer to **FIXING A SIDE LIGHT page 5** section.

APPROVED FIXING TYPES & METHOD OF FIXING

- Installation should be carried out in line with the recommendations of BS8214.
- Through-frame fixings are used on T30 FED system and should be seated behind the intumescent strip to maintain the pre-finished frame.
- All fixings should penetrate the substrate by a minimum of 50mm to ensure a good fix.

FIXING POSITIONS

- Fixings are to be located within the intumescent channel behind the seal to maintain the pre-finished frame finish.
- Fixings are to be located 150mm up and 150mm down from the top and bottom internal corners of the jambs and at no more the 450mm centres in between. No fixings are required to the head of the frame.
- Fixing location shouldn't penetrate the intumescent seals.
- Packing material is to be located behind each fixing point.

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.

Installation Instructions

FIXING A SIDE LIGHT

- The sidelight arrives pre made to site and will need dismantling to assemble.
- Unscrew the internal window beading and remove from the frame allowing the Double Glazing Unit to be removed. Remove the DGU and set aside along with the packing material for reuse.
- Run a bead of fire mastic down the outside of the window frame that adjoins the doorframe.
- Fixings are to be located 150mm down and 150mm up from the top and bottom internal corners of the window sides and at no more the 600mm centres in between. Fixings are to be installed centrally down the width of the frame so they are concealed once the glazing bead is fitted.
- 5.0 x 80mm woodscrews are to be used to join the window frame to the doorframe.
- Once installed, the DGU and beading should be re-installed as it was upon arrival. A nominal 4mm expansion gap between the DGU and frame profile. The screw fix beading should be mounted to the internal side.

Perimeter Gap Sealing

- Gap sealing products used in conjunction with proposed timber door assemblies must have been successfully fire test for 30minutes fire resistance in accordance with BS476: Part 22: 1987 or BS EN 1634-1.
- Wherever possible, gaps between the rear of the door frame and structural opening should be controlled so that the gap width is consistent over the entire perimeter of the door frame, and is of a size which enables the installation of a suitable gap sealing system in accordance with the requirements of BS8214.
- Architraves are not required for fire stopping detail with the T30 FED range.

Perimeter Intumescent Seals

- Perimeter intumescent seals are supplied loose to be fitted on site after installation of the doorset
- These are required to be square cut tight between all hardware items and placed into the rebate.
- Seals are secured using the self adhesive backing

Final Inspection & Registration

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 T30 FED 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 or your licensed fabricator.

Appendix 1

SOLIDCOR T30 FED 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 number of fixings correct		
Check spacing of fixings correct		
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, where required		
Check handle operation and turn the key in euro cylinder and make sure door locks and un-locks easily		
Check that all perimeter intumescent seals have been fitted		

Appendix 1

SOLIDCOR T30 FED Doorset Installation - Final Checklist	Correct Y/N	Checked By Name
---------------------------------------------------------	-------------	-----------------

FINAL QUALITY CHECK		
---------------------	--	--

Check Doorset clean and all protective film removed		
Check exposed faces for door leaf and frame free from physical damage or contamination		
Check there is no damage to the frame, door leaf or glazing		
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 the frame and structure are suitably sealed		

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 _____



Unit 5, Sheepbridge Lane, Chesterfield S41 9RX
t +44 (0)1246 604654
e sales@solidcor.co.uk

solidcor.co.uk