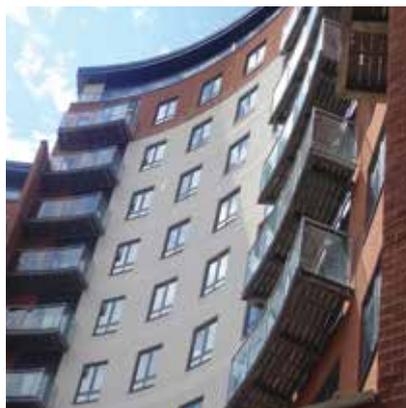


**PREMDOR<sup>®</sup>**

Following installation, this document should be retained and passed on to the property owner.

# Installation & Fitting Guide



The smart way to  
**Meet Regulations.**  
**Be Safe.**  
**Be Secure.**



Please read the following guidelines in full before beginning the installation...

**Important: Fire doors must be fitted by a competent person.**

## 1. Surveying

1a. Check that the opening is defect free and that there is no more than a 10mm variance on the diagonal measurements.

1b. Measure the opening at three points on the width and height. The smaller of each is the measurement that is used to determine the aperture size.

1c. When ordering, please specify the standard manufacturing size (which ideally is the aperture, less 10mm height and width).

1d. Check that the internal dimensions of the opening allow the full opening of the door, and that the door will not be impeded by plaster, render or floor covering.

## 2. Pre-installation

### 2a. Check the specification

Before commencing the installation, make sure that the doorset delivered is as required and as specified on the order acknowledgement documentation. Doors not matching the order acknowledgement will not be accepted for return if they have been cut into or otherwise reworked. Check for damage in transit.

Any damage must be reported within the timescales stated in the Terms and Conditions in the current Premdor Range Guide.

### 2b. Check the fitments

Secured by Design doorsets are supplied fully prepared with three point espagnolette lock, ironmongery and fittings. Some components may be supplied loose for site fixing. Please check all packaging carefully to avoid any item being discarded in error.

Cill thresholds when ordered are also supplied loose for on site fitting. Where the customer or installer uses components not supplied by us, we strongly advise that these be of high quality and fully guaranteed by the supplier.

In the case of letterplates, they must be correctly fire rated, sleeved and draught-proofed. Poor fitting or lower quality fitments may result in draughts or defects, which diminish the heat retention capability and durability of the doorset and may invalidate the guarantees.

## 3. Installation of doorsets

### 3a. Check the dimensions

Make sure that the opening is of suitable size for the doorset. The dimensions of the opening should be at least 5mm greater than the outer dimensions of the doorset on all four sides. Take several measurements of the width and height to ensure that the dimensions are constant. Do not force the doorset into position as distortion or damage may occur.

### 3b. Installing

The doorset must be installed as a complete unit. Use the door as a template to "square" the door frame position, removing it only to allow for final fixing, decoration or protection.

### 3c. Important notes

- Regardless of fixing method – screws or bolts – packing must be inserted between the frame and the wall at the fixing point. This will avoid frame distortion.
- It is also important to ensure that a packing piece is placed immediately behind the three lock striker plates where they are positioned in the frame.
- For frame to wall fixing details, please see diagram on page 4.
- After fixing is complete, ensure that the door makes full and uniform contact with the edge seals. Check the diagonals and ensure that no distortion or twisting has occurred during installation. Check also that the door does not "bind" on the frame when it is being opened or closed.
- We recommend the use of plastic sheathed fixing bolts (M10 x 100mm min).

- Where fixing bolts are used, the holes should be predrilled through the frame at the distances shown in the diagram on page 4.

- For a timber frame use an ordinary drill to make a clearance hole in the frame and then a suitable masonry bit to drill into masonry to a minimum depth of 50mm.

- The frame to wall gap must be filled with mineral rock fibre tightly packed to a depth of the frame leaving an allowance for a 10mm capping, to both faces, with BS467-20 tested fire rated mastic. Alternative options can be found in BS 8214.

Please note, some movement within timber door leaves may occur after installation.

### 3d. Finishing of doorset installation

Make sure that the door leaf opens and closes properly and the locking system operates smoothly. Also check that edge seals make full contact with the door at all points. If needed the keeps can be adjusted using a T15 Torx bit.

For Secured by Design doorsets, the handles supplied can be fitted to give either split spindle or solid spindle mode of operation. Please read the instructions supplied with the door handles.

Where possible users should engage the three security door bolts by lifting the handle when the door is in the closed position. We recommend that this is done even if it is left unlocked. Not only is this good security practice when locked but it is essential to ensure a good perimeter seal.

Unfinished doorsets should be painted immediately after installation using a good quality paint system in accordance with the paint manufacturer's instructions. This should be a three coat system - primer, basecoat and topcoat.

#### 4. Re-sealing worked edges and staining

If it is necessary to cut, plane or sand a door for any reason, it is essential that the worked edges are immediately re-sealed with a primer, basecoat and topcoat. Failure to do so will invalidate the guarantee.

#### 5. Cleaning

Should any surface require cleaning after installation is complete, use a damp cloth or mild soapy water. Do not use any industrial or abrasive cleaners.

#### 6. Ironmongery Fixing

To minimise risk of damage and for ease of handling, some items of ironmongery for this doorset may be delivered loose. This may include the door handles, security chain, lock cylinder and cylinder guard.

#### 6a. Door Locks

Premdor doorsets are fitted with a three point espagnolette lock system that can be used for either "solid" or "split" mode of operation.

In the "split" spindle mode, entry can only be gained from the outside by using a key. The handle only opens the door from the inside. See split and solid spindle fitting guide at the end of this document.

Please ensure that you choose the correct mode of operation to meet the local regulations.

#### 6b. Lock Cylinder

The lock cylinder is supplied loose and needs to be carefully located and fixed into the factory fitted lock case. For Secured by Design the cylinder guard, supplied loose, must be fitted. See instructions on page 5.

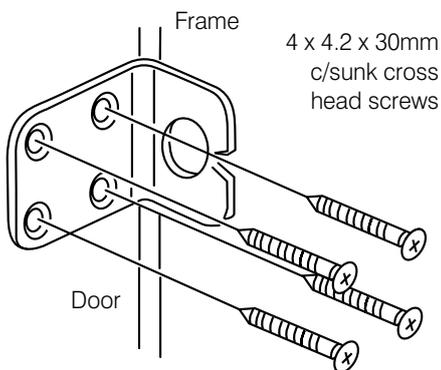
#### 6c. Door Handles

Identify the exterior handle – this is the handle with no screw holes.

Before fixing ensure that the correct latch spindle is inserted (See note 6a Door Locks - 'solid' or 'split' spindle.)

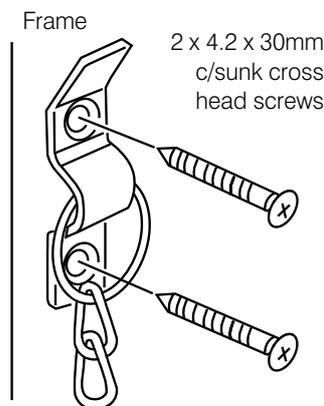
To fix handles locate one handle into position aligning it accurately with the lock cylinder and latch Spindle. Position the other handle. Ensure that the handles are vertically positioned and not distorting either the cylinder or spindle. Once the handles are in position, pass the two handle fixing screws through the inner handle face plate into the pre drilled holes in the door face. Thread the screws through and tighten them both in to the outer handle, until the handles are drawn tightly up on to the door.

#### 6d. TS003 Security Door Chain Assembly (if supplied)

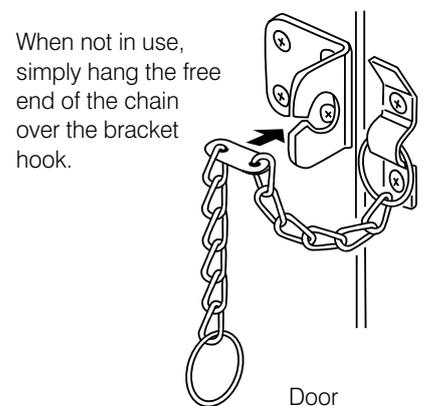


- i) Position the chainholder angled bracket at the \*desired height on the inside door face. Inset it 20mm from the closing edge of the door.

\* The recommended position is 1300mm up from the bottom of the door. Ensure that it is located squarely and mark the four screw fixing points through the bracket. At the screw points drill pilot holes then fix firmly using the screws provided.



- ii) Position and fix the chain holder on to the door frame adjacent to the angle bracket, using the two screws provided. Before fixing, hook one of the chain end rings behind the holder bracket and then screw the holder firmly back.



- iii) To use the security chain: when the door is closed, simply slide the flat link in the chain into the door angle bracket and thread the chain through. Remove in the same way.

Please note: Failure to implement the instructions shown above and overleaf will invalidate your guarantee. Premdor is not liable for remedial work required as a result of incorrect installation of doorsets.

# Doorset Installation



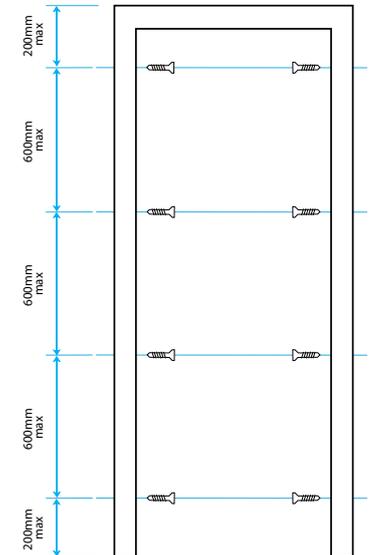
1. Offer the doorset up to the opening.



2. Hold the frame in place using wedges, ensuring the frame is square. A large (5ft/1.5m recommended) spirit level should be used to ensure that all jambs are square and plumb.



3. After ensuring the hinge jamb is square and plumb by re-adjusting the wedges if necessary, fix the hinge jamb in four positions (as shown).



4. Close the door and position the closing jamb so that it makes full and uniform contact with the frame seal. Then fix (as step 3).



5. Cut off the wedges to align with the edge of the frame.



6. The frame to wall gap must be filled with mineral rock fibre tightly packed to a depth of the frame leaving an allowance for a 10mm capping, to both faces, with BS467-20 tested fire rated mastic. Alternative options can be found in BS 8214.

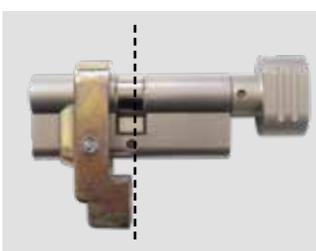
# Lock & Latch Fitting Guide

Following installation, this document should be retained and passed on to the property owner.



## Armorshield™ Fitting Guide

The Armourshield cylinder guard, supplied loose, must be fitted as shown below to conform with the Secured By Design certification.



1. Place the external part of the Armorshield™ (containing the two grub screws) over the external side of the cylinder.



2. Align the lower part of the Armorshield™ with the centre of the cam or screw hole and equally tighten the two grub screws onto the cylinder.



3. Remove the thumb turn from the cylinder by pushing in the release pin on the thumb turn or by using an allen key where appropriate. Next, install the cylinder into the lock in the door leaf from the external side. Install the cylinder in the normal manner aligning the cylinder retention screw through the lock face-plate.



4. Next apply the inner part of the Armorshield™ to the inside of the door leaf and securely fasten the two halves together using the supplied bolt. Fit the handles before re fitting the thumb turn.

# Split / Solid Spindle Fitting Guide and Operating Instructions

The supplied handle and spindles can be used in both solid and split spindle mode.

Please check the local regulations to determine which mode of operation is required.

## 1. Solid spindle option

Fit the handles using the conventional solid spindle shown below.

Insert the spindle into the lock then fit the handles with the fixing screw holes in the handle on the inside of the door. The heads of the screws should then be on the inside of the door.

In this mode of operation when unlocked the door can be opened with the handle from both sides of the door.

Locking is achieved by first lifting the handle on either the inside or outside to engage the locking hooks. The door is then locked by either turning the thumb turn on the inside or turning the key on the outside through 360 degrees.



Solid spindle



Split spindle

The door can be unlocked by either turning the thumb turn or key through 360 degrees then depressing the handle.

Please note we recommend that the handle is always lifted after the door is closed, even if the door is not then locked.

## 2. Split spindle option

Fit the handles using the split spindle shown below.

Insert the split spindle into the lock from the inside of the door with the spring on the inside of the door, then fit the handles with the fixing screw holes on the handle on the inside of the door. The heads of the screws should then be on the inside of the door.

In this mode of operation when unlocked the door can only be opened with the handle on the inside of the door.

Even when unlocked the door can only be opened from the outside by turning the key 360 degrees in the lock and then depressing the handle.

To unlock the door from the inside, turn the thumb turn through 360 degrees then depress the handle.

Locking is achieved by first lifting the handle on either the inside or outside to engage the locking hooks. The door is then locked by either turning the thumb turn on the inside or turning the key on the outside through 360 degrees.

Please note we recommend that the handle is always lifted after the door is closed, even if the door is not then locked.

Please note also in this mode it is easy to lock yourself out. Please ensure that you have a key with you at all times so that you can open the door from the outside.

## Dropseal Adjustment Instructions

To adjust the dropseal gently close the door whilst carefully observing the action of the seal at the door bottom.

The seal will require adjustment if it either:-

a) Snags on the floor during closing

or

b) Does not contact the threshold once the door is fully latched.

To adjust the seal travel :-

- Pull out the adjustment nut until it is clear of the aluminium housing.

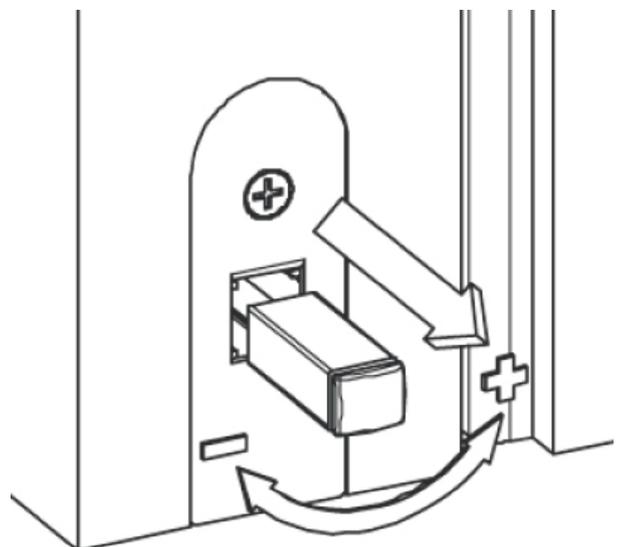
- Turn the nut clockwise to reduce or anti-clockwise to increase the overall seal drop (shown below). Several turns may be needed.

Please note the dropseal is self-levelling. If the dropseal is adjusted correctly, one end of the seal will drop first followed by the rest of the seal.

Please turn the adjustment nut anti-clockwise until the full length of the seal contacts the threshold.

NOTE - It is not necessary to completely compress the silicone seal.

As a final check to ensure the seal is adjusted correctly, place a sheet of paper flat on the threshold or floor. With the door closed, the seal should just grip the paper.



Please note: Failure to implement the instructions shown above/overleaf will invalidate your guarantee. Premdor is not liable for remedial work required as a result of incorrect installation of doorsets.

# PREMDOR®

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