

**selo**<sup>®</sup>

Concealed Frame Doorsets  
Riser Doors & Dampers

halo  
assist

Installation supportline:  
**call 020 3880 0339**

**Innova+**<sup>®</sup>  
**Inward opening**

Concealed frame doorset



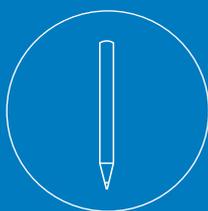
**Installation instructions**

# Thank you for choosing Innova+

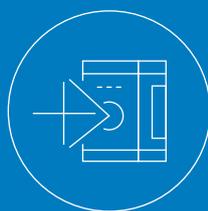
To ensure the installation process is simple and efficient we recommended you read this guide in full before you begin.

## Required Tools

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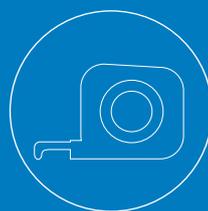
Pencil



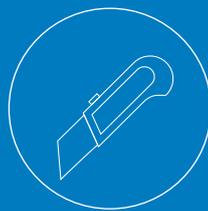
Laser level



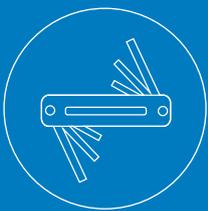
Cordless screwdriver



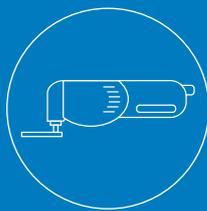
Tape measure



Knife



Hex keys (metric)



Multitool

## IMPORTANT - Fire rating notice

The fire rating of any doorset is subject to a number of factors, including:



1. The design/workmanship of other work, in particular the partitions into which the doorset is fixed.
2. The doorset being installed in accordance with the installation instructions.

The Innova+ system can be fitted to either studwork or rigid masonry walls. You will need to ensure the wall itself meets the correct fire performance.

Please consult Selo for advice and guidance to ensure the fire performance is met.

**tel** 020 3880 0339 **email** [sales@selo.global](mailto:sales@selo.global)

# Identify opening configuration

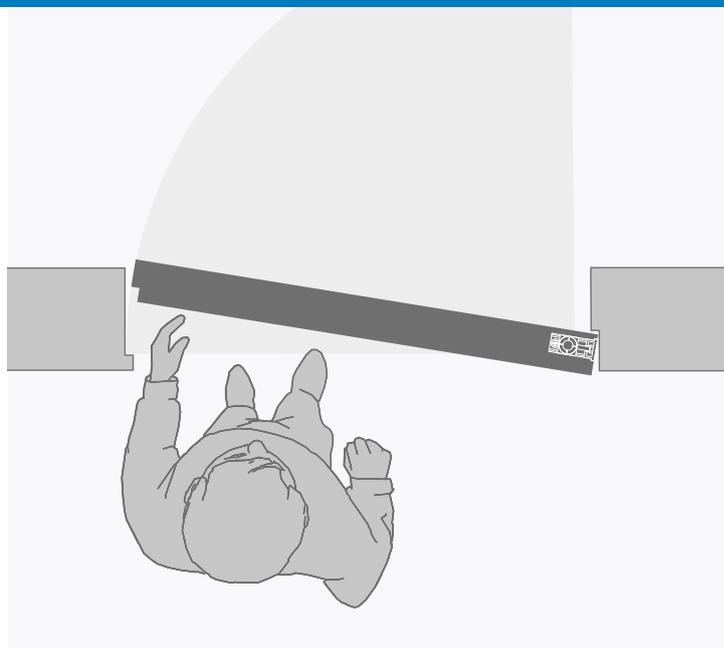
The Innova+ system can be configured as either inward or outward opening. The installation steps differ:

## Inward

### Innova+<sup>®</sup> Inward opening

When viewed from the flush-side of the wall, the door opens inwards, in to the room (away from the user).

**Proceed to Page 04**



## Outward

### Innova+<sup>®</sup> Outward opening

When viewed from the flush-side of the wall, the door opens outwards, towards the user (as standard door).



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## Innova+ Inward opening

# Wall construction preparation

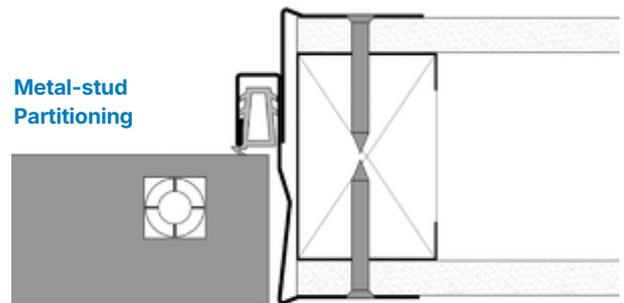
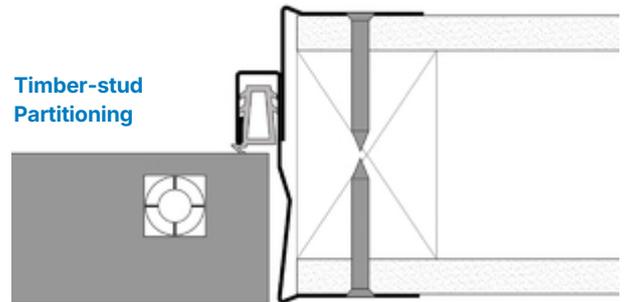
The Innova+ system is suited for use on studwork partitions of either steel or timber studwork.

### Studwork-wall Construction

The Selo concealed frame doorset systems are ideally suited for use on studwork partitions of either steel or timber studwork.

**IMPORTANT**

When using a steel stud a timber insert must be used.



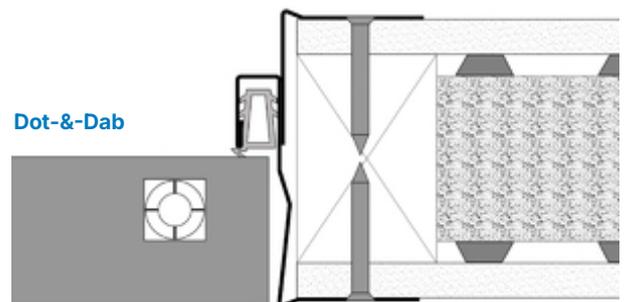
**The illustrations shown are NON FIRE RATED - Please consult a wall designer for fire rated details**

### Masonry-wall Construction

If Innova+ is being used on a rigid masonry wall, then a timber stud is required within the opening. Once this has been fitted, then the wall is clad with plasterboard using an appropriate fixing method. This allows the Innova+ frame to be installed in the standard way.

**IMPORTANT - When using a floor spring**

If a Self-closing Floor-spring is being used, you need to ensure there is depth within the sub floor to fit the box into.



**The illustrations above are NON FIRE RATED - Please consult a wall designer for fire rated details**

## Innova+ Inward opening

# Getting started

Before installation, please ensure the system specifications correspond with your project schedule.

### Preparing for Installation

Your delivery will include one or both of the boxes shown depending on your order.

Ensure you have everything you need prior to installation. Sizes should be checked on the frame box.



Frame box



Door leaf

  
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## Innova+ Inward opening

# What's included

Identify the components below and ensure you have everything prior to installation.

### Frame Kit



1 Hinge Jamb & Reveal



2 Head Jamb & Reveal



3 Strike Jamb & Reveal



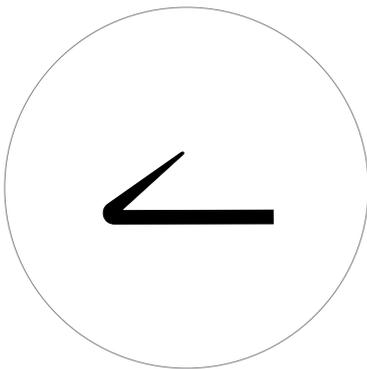
4 Hinge Frame Seal



5 Pivot Fittings



6 Door Leaf



7 Latch Frame Seal



8 Floor Spring (If Specified)

## Innova+ Inward opening

# Wall construction preparation

Before installation please ensure you have carried out the recommendations in the 'Wall construction preparation'.

## 1

### Double-stud Head

Construct your Stud partition with a **Double-stud at the head** using the **Structural Opening (S/O)** calculations shown below.

#### **IMPORTANT**

A double-stud head is required to provide extra strength due to the notching required for the Pivot-hinge.

#### **Standard (Single Door)**

S/O (w) = Door leaf (w) +45mm

S/O (h) = Door leaf (h) +31mm +Undercut

#### **Flush Reveal (Single Door)**

S/O (w) = Door leaf (w) +44mm

S/O (h) = Door leaf (h) +14mm +Undercut

#### **Flush Head (Single Door)**

S/O (w) = Door leaf (w) +45mm

S/O (h) = Door leaf (h) +14mm +Undercut

#### **Standard (Double Doors)**

S/O (w) = Door leaf (w) x2 +17mm

S/O (h) = Door leaf (h) +31mm +Undercut

#### **Flush Reveal (Double Doors)**

S/O (w) = Door leaf (w) x2 +27mm

S/O (h) = Door leaf (h) +14mm +Undercut

#### **Flush Head (Double Doors)**

S/O (w) = Door leaf (w) x2 +17mm

S/O (h) = Door leaf (h) +14mm +Undercut

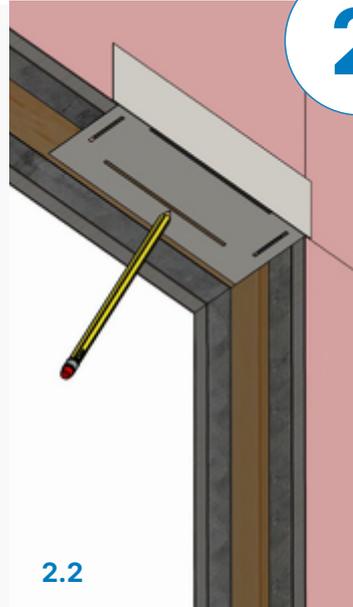
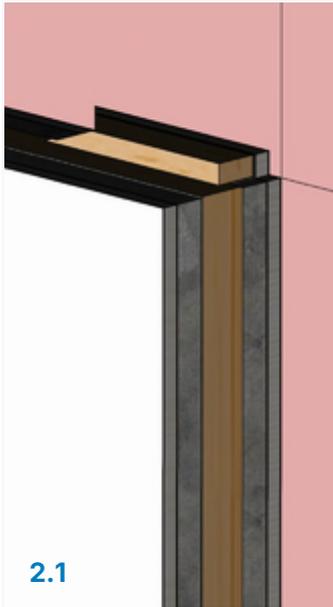


#### **IMPORTANT**

Before starting the doorset installation use a laser level to ensure the opening is square, level and that the wall is plumb.

## 2

### Head Notch

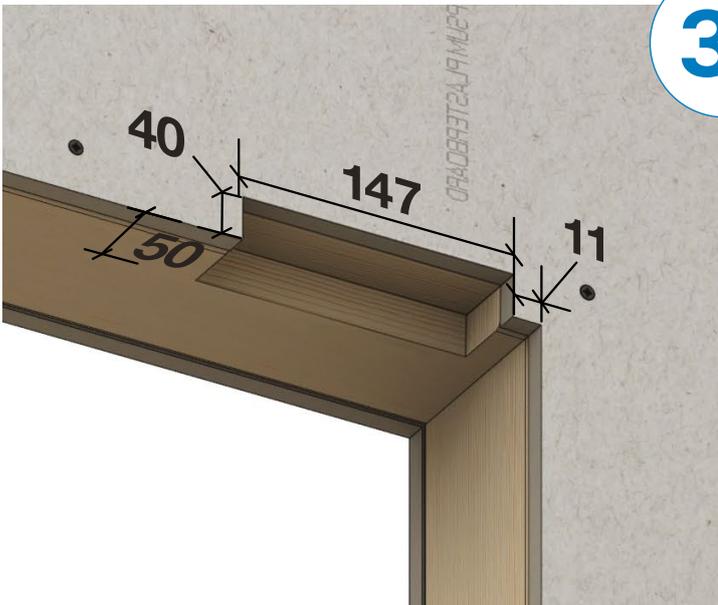


**2.1** The Head of the Studwork requires a Notch to accommodate the Pivot-hinge fitted to the Innova+ Head.

**2.2** The Notch size can be marked using the Innova+ Hinge Template which is supplied with the Frame. Hold the template so the extended side of the template **butts up to the hinge side of the opening** and draw around it.

## 3a

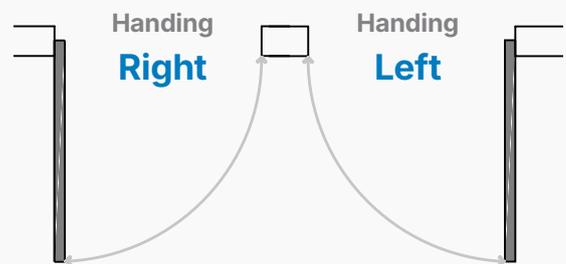
### Standard Head Notch (size/position)



The Notch size for the Standard Pivot.

**IMPORTANT**

Ensure you are working to the correct handing as shown.

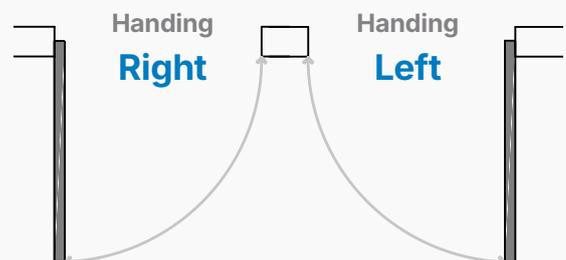


## 3b

### Floor-Spring Head Notch (size/position)



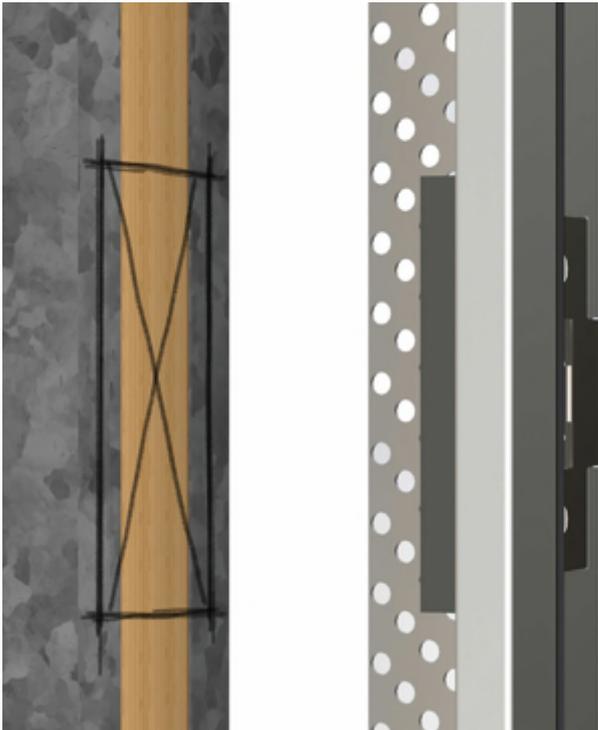
If a Floor-spring has been specified please notch the Head to the dimensions shown using the 'Floor-spring' template. Handing below:



## Innova+ Inward opening

# Installation guide

Before installation please ensure you have carried out the recommendations in the 'Wall construction preparation'.



# 1

### Notching the Latch-edge Stud

Mark the **latch plate back-box** onto the **stud**.

Using a **multitool** or suitable tool, cut out and remove the section of the partition based on the latch back-box.

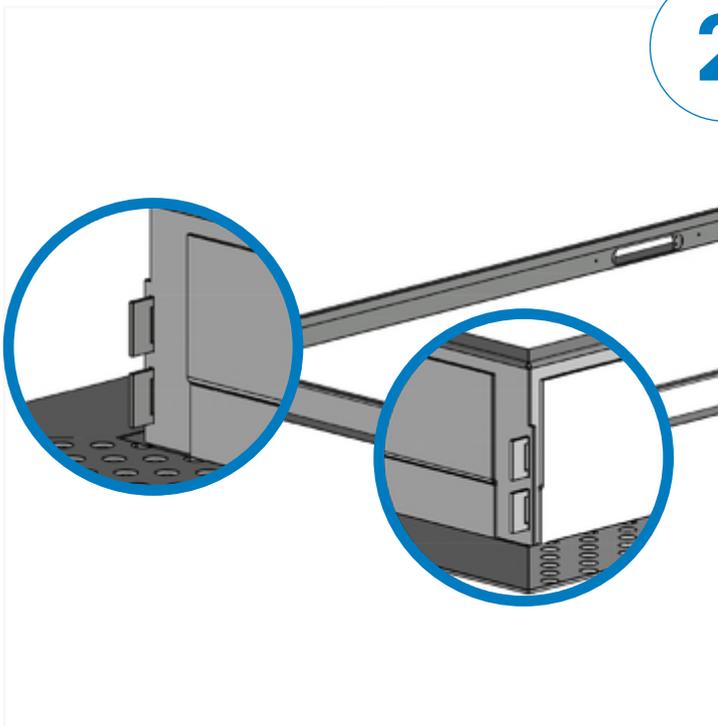
# 2

### Frame Assembly

Lay out the **Hinge Jamb**, **Latch Jamb** and **Head Jamb** on the floor.

Push the tabs on the **Hinge** and **Latch Jamb** into the slots on the **Head Jamb**. Once in place, bend tabs over to lock frame together.

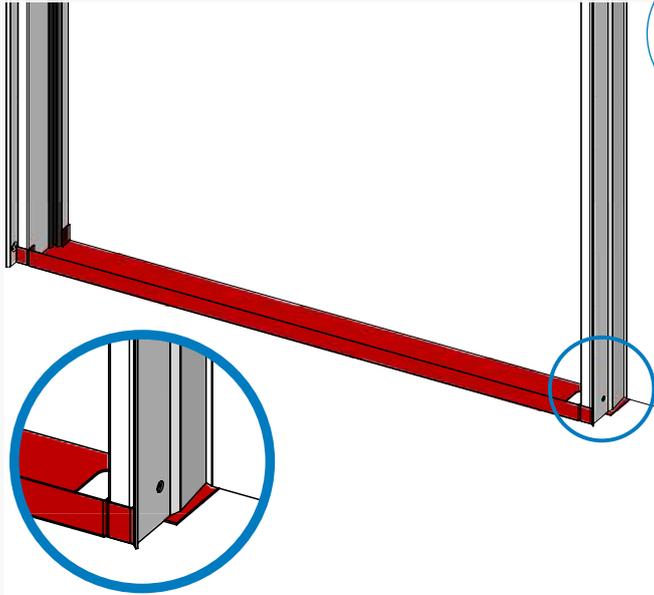
**Note** - Hinge Reveal, Latch Reveal and Head Reveal are fitted later in the instructions.



3

### Bottom-brace Installation

Insert the **Bottom-brace** into the frame reveal channels to aid accurate installation.

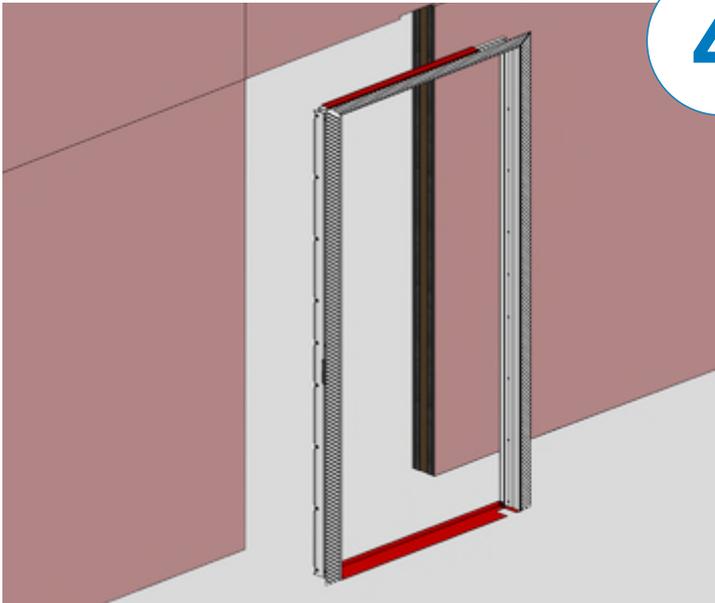


4

### Frame Installation

Offer the **Frame** up to the wall opening.

Mark a datum on each **Vertical Jamb** and use a **Laser** to check horizontal alignment

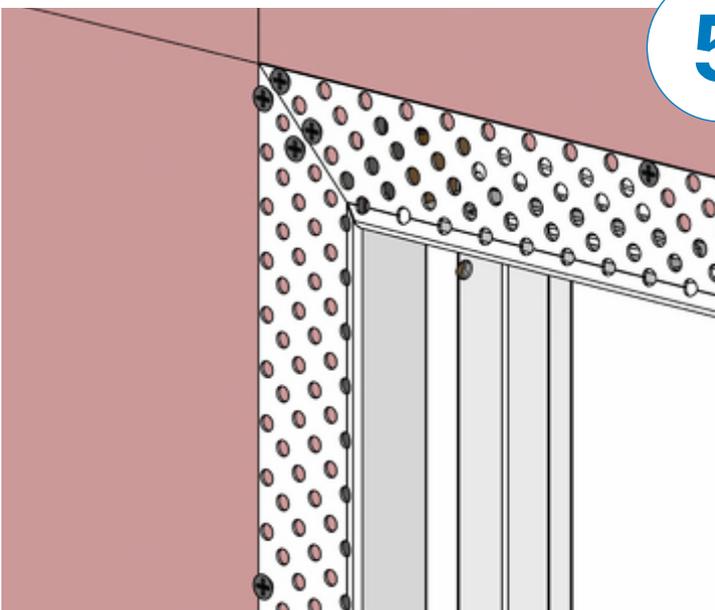


5

### Fix every 200mm

Check the perforated side flanges sit flat against the plasterboard. Screw with appropriate fixings for the supporting construction at **200mm increments** around the frame through the flange into the studwork.

Double-screw all the ends of the frame as shown.



## 6

## Frame Packers

Pack both **Vertical Jamb**s at the rear of the frame with appropriate **Plastic Packers**. Screw fix, ensuring **not to over-tighten**.

**IMPORTANT**

Screw heads must not stick up as they will clash with the door. Trim plastic packers flush with the frame.

## 7

## Install Bottom Pivot

**7.1** With **Bottom-brace** installed, place the **Bottom Pivot** within the cut-out.

**7.2** Double check positioning of base pivot by cross-hairing it in both directions with a laser to check it is directly underneath the **Top Pivot**.

Screw the **Pivot** to the floor.

**Note** - If specified with a floor spring, please see [page 17](#).

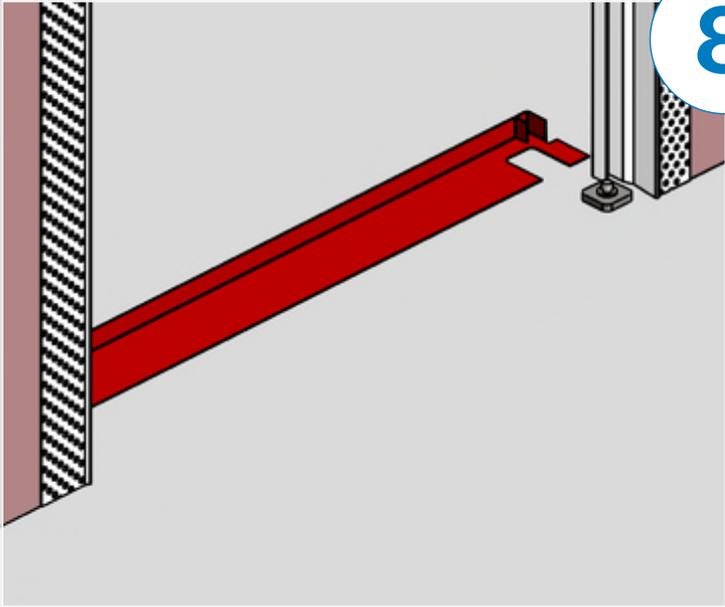
7.1

7.2

8

### Bottom-brace Removal

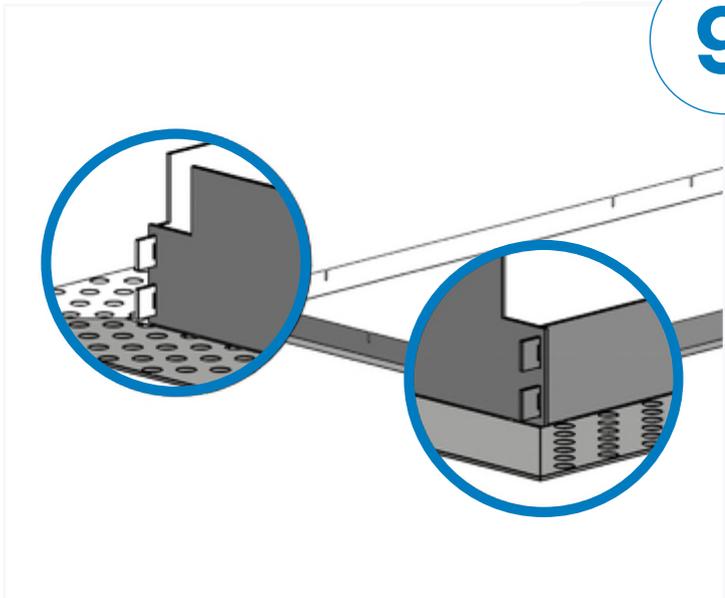
Remove and recycle the **Bottom-brace**.



9

### Frame Reveal Installation

Repeat **Step 2** to assemble the **Reveal Trims**.

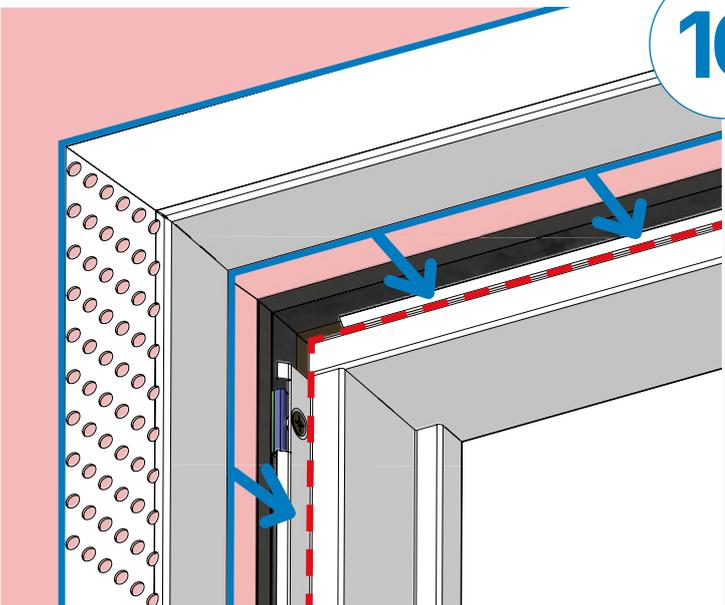


10

### Fit Frame Reveal

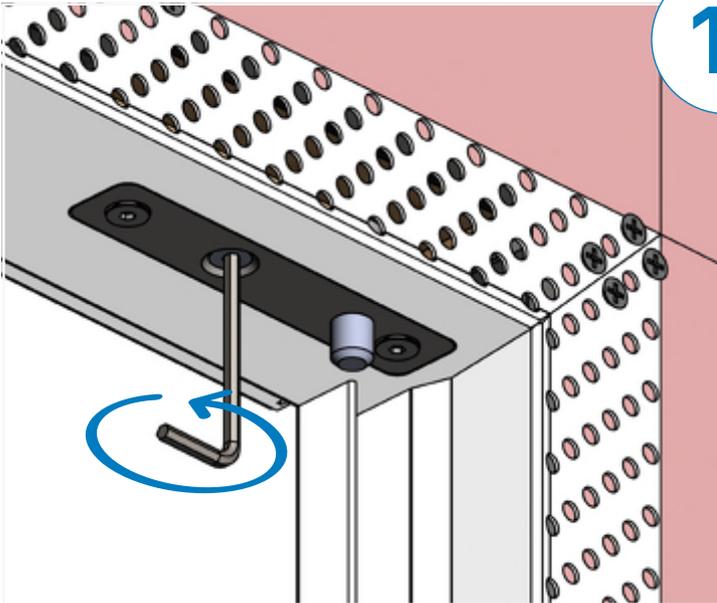
Slot the **Frame Reveal** into the back of the frame installed in **Step 4**.

Push in tightly so the reveal is flush to the wall and screw fix **through the plaster bead** as per **Step 5**.



## 11

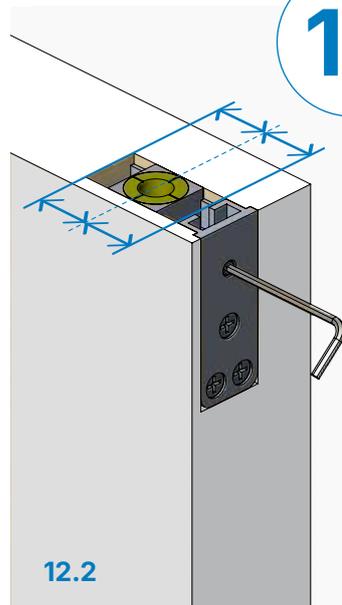
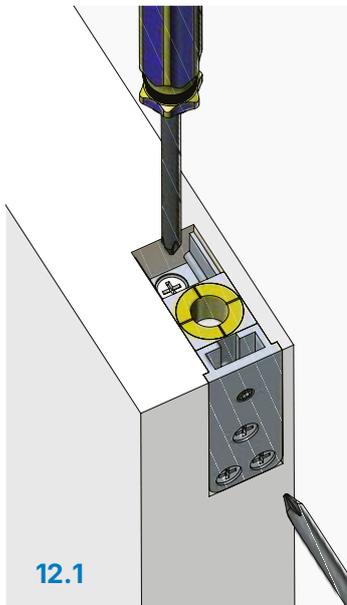
## Retract Hex-screw



Unwind the **Hex-screw** as far as it will go (anticlockwise) to allow the top pivot to retract flush into the head.

## 12

## Fit Adjustable Pivots



**12.1** Fit the **Adjustable Pivot** into the top and bottom of the door. Each pivot is fixed with **x4 screws** (supplied).

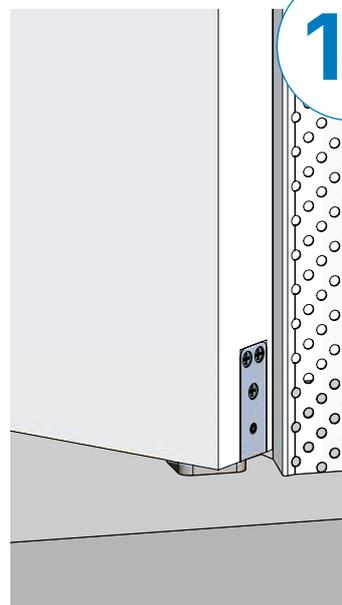
**12.2** Ensure both **Pivots** adjusted approximately to their central adjustment position.

**IMPORTANT**

If door is fire rated, install the **White Intumescent Jackets** (included) around the pivots **BEFORE** fitting into the door.

## 13

## Install Door



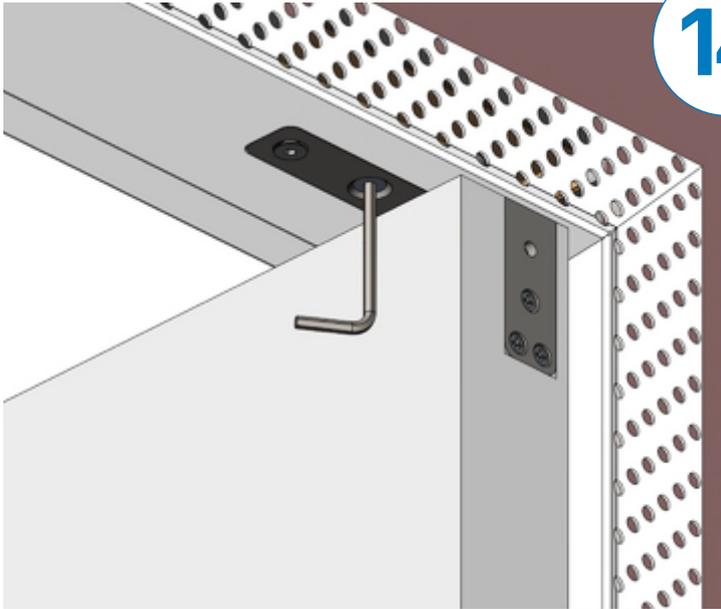
With assistance lift the door up on its end and locate the bottom socket over the **Floor Pivot-pin** as shown. This will need to be on the reveal side.

**IMPORTANT**

If the doors have not been supplied with the frames, ensure the frame is level, plumb and square.

## 14

### Fix into place



Swing the top of the **Door** into an upright position to locate the **Top Pivot** into the **Pivot Socket** in the top of the **Door**.

Standing on a Hop-up or Steps will make it easier to sight the Pivot in. Once located, **tighten the Hex-bolt** with the **Hex Key** provided to lock the Pivot securely into position.

## 15

### Check Fitment



Swing the door, open and closed to ensure it is operating freely. If the door is not level, use the **Adjustable Pivots** to correct. (Detailed in **Step 12**)

Check that the gaps around the sides are **2.5mm–3mm**. Make adjustments to the frame if required. If doors have not been provided with the frames, a dummy door can be provided.

#### **IMPORTANT**

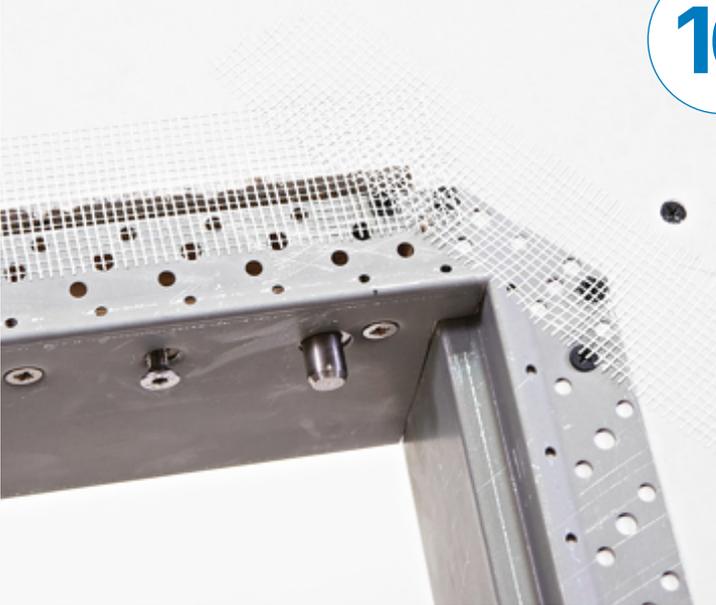
If the gap at the **Head** of the door is too large, a 1mm and 2mm **Packer** are provided in the **Pivot** set. The **Packer** can be placed over the **Pivot-pin** to lift the **Door** to its correct position. Ensure the **Frame** is level, plumb and square.

Now that the 'swing' and the frame-alignment are correct, the **Door** can be removed and put aside until the plastering and decorating are complete.

See end of booklet for correct storage of doors.

## 16

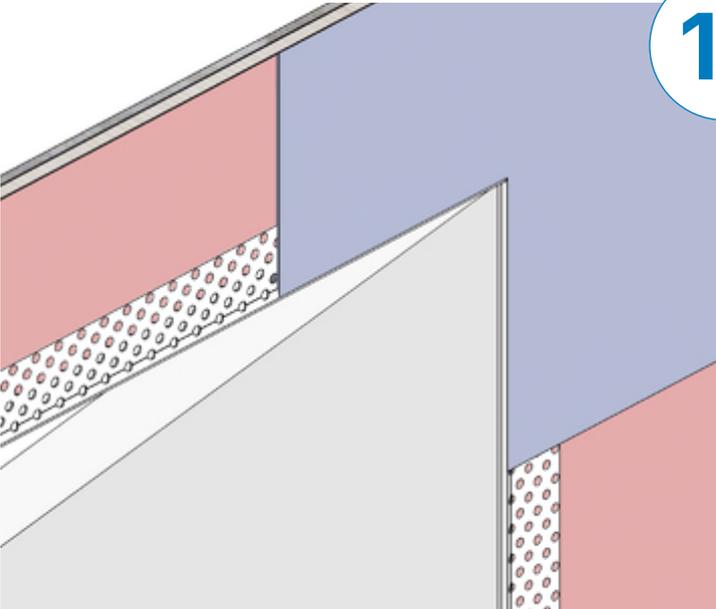
## Plaster Tape



Apply **Plaster Fibre Tape** to the top corners at 45° and across the **Head** over the **Pivot cut-out**.

## 17

## Plastering / Decoration

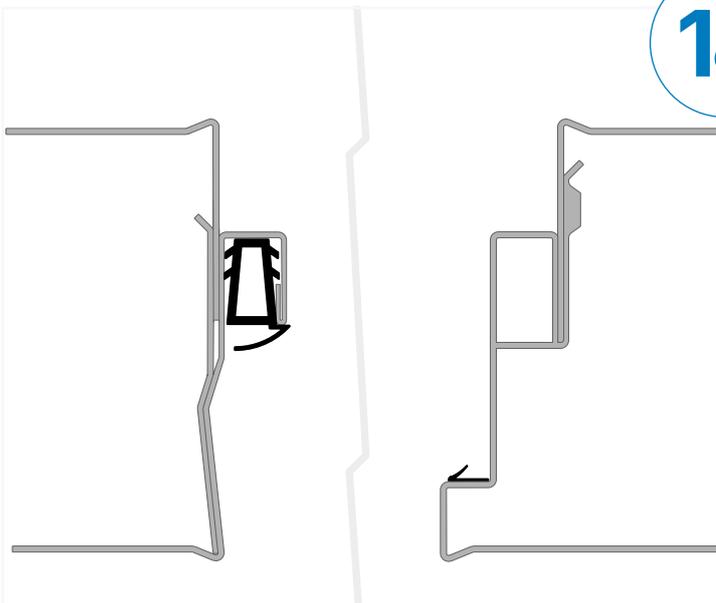


Finish up to the **Stop Bead** with Multi-finish Plaster Skim or Tape and Jointing compound. This conceals the Frame and all Fixings.

Once the Plaster/Jointing has dried, the Wall and Frame can be painted. The Frame will need a metal primer applied (if supplied unfinished) and can then be painted as required.

## 18

## Install Seals



Push-fit hinge edge **Vertical Seals** into the **Frame Channel**. The blade of the Seal points towards the Frame, as shown.

Install the self-adhesive **Half-batwing Seal** onto the **Closing Edge**.

# 19

## Hang Door



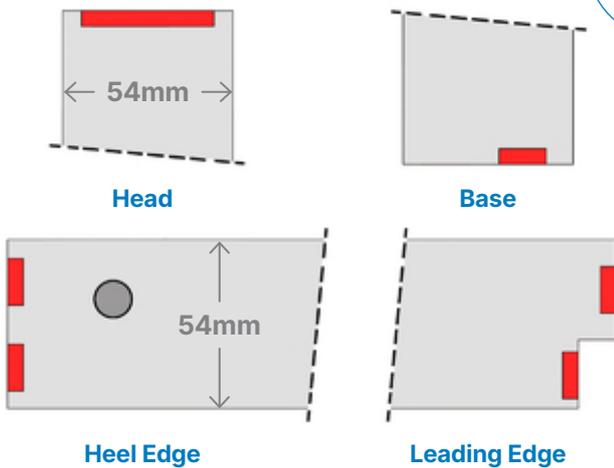
The **Door** can now be re-hung.

If the Door is **Fire Rated** then the **Intumescent Strip** will need to be fitted to the grooves in the Door edges. If the Doorset is **Acoustic Rated** then the **Acoustic Seals** will need to be fitted.

If minor **height adjustments** are needed refer back to **Step 12**.

# 20

## EI30Sa Intumescent Seal Configuration



In order to achieve an EI30Sa Fire Rating the 3-sided Innova+ requires intumescent seals to be fitted to the door as indicated:

LOCATION	SIZE	QTY
Head	38mm x 6mm	1
Base	15mm x 4mm	1
Heel Edge	15mm x 4mm	1
Leading Edge	10mm x 4mm	1
Leading Edge	15mm x 4mm	2

## Congratulations!

You have now completed installation of your Innova+ inward opening concealed frame doorset.

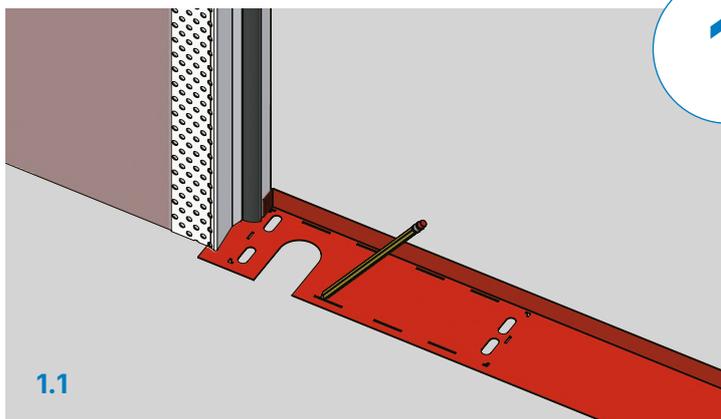
Please refer to the following page for system Options and Adjustments.



## Innova+ Inward opening

# Floor spring installation

If self closing is required a floor spring pivot set is used. The bottom pin and socket are replaced with the floor spring box and bottom strap.



# 1

### Mark Location

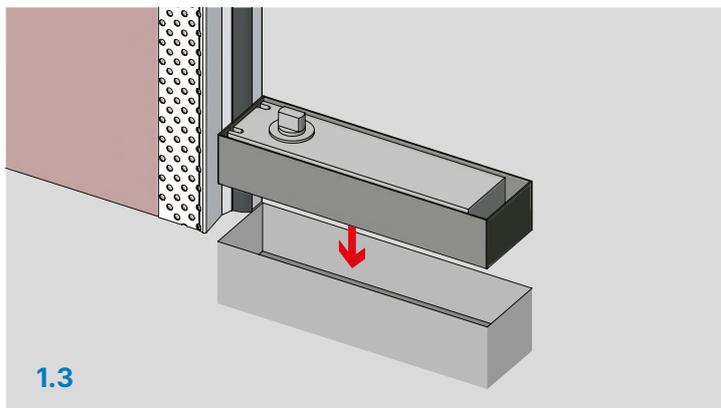
**1.1** Using the red bottom template, mark the location on the floor for the Floor Spring.

**1.2** Cut the floor based on the marked area to create a pocket to house the Cement Case.

#### IMPORTANT

Top of case must be flush with finished floor. Cement case must be level and installed parallel to frame.

**1.3** Grout Cement Case into place.

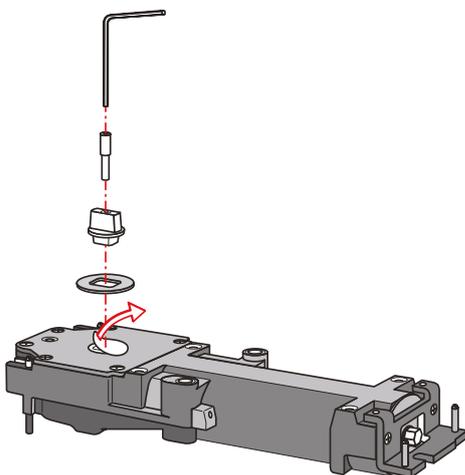


# 2

### Attach Spindle

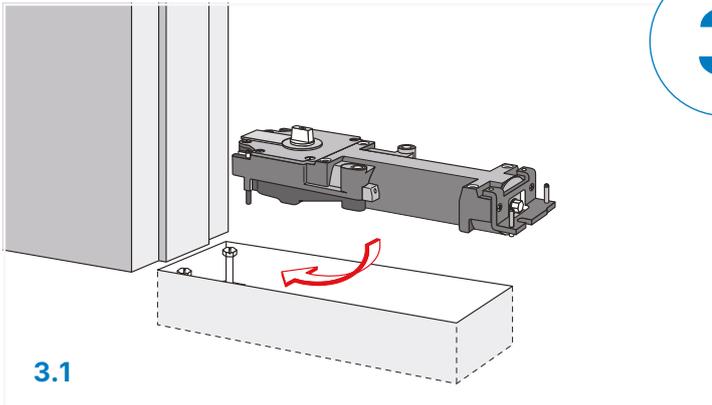
Slide washer over tapered square end of spindle until fully seated in groove.

Fasten spindle with spindle screw provided. Tighten securely with 5mm hex key.



### 3

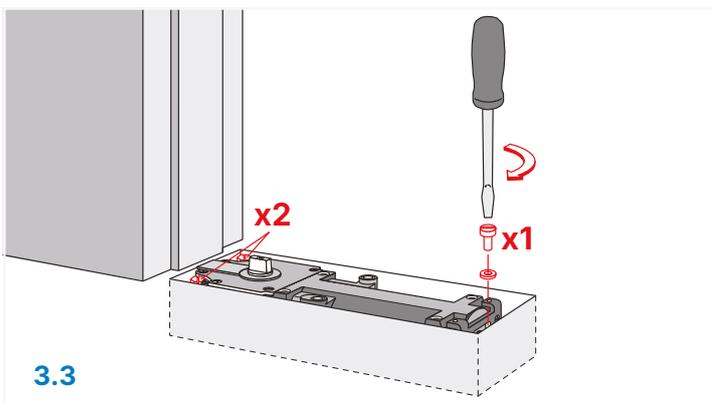
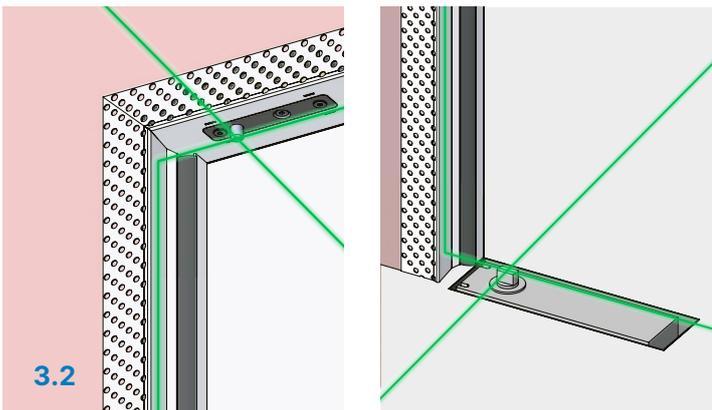
#### Install Closer



**3.1** Centre closer within the Cement Case.

**3.2** Use a laser level to ensure the Closer Spindle is aligned with the top Pivot Pin.

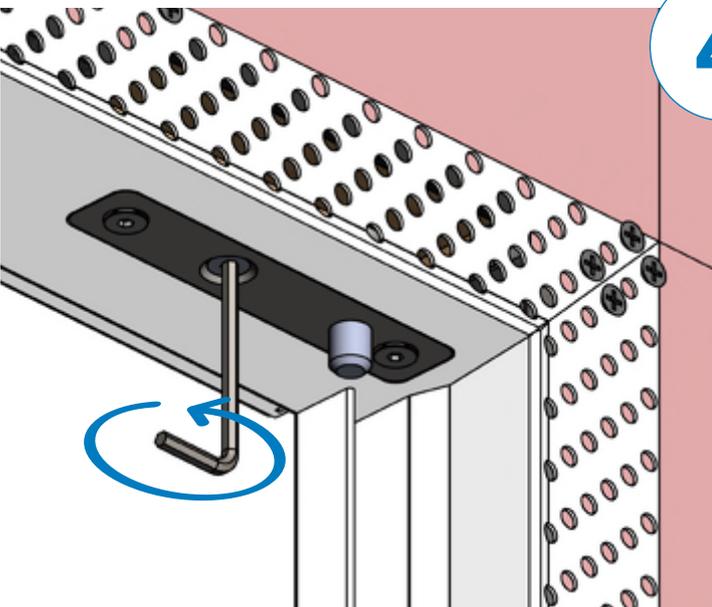
**3.3** Tighten the fastening screws to fix the Closer to the Cement Case.



### 4

#### Retract Hex-screw

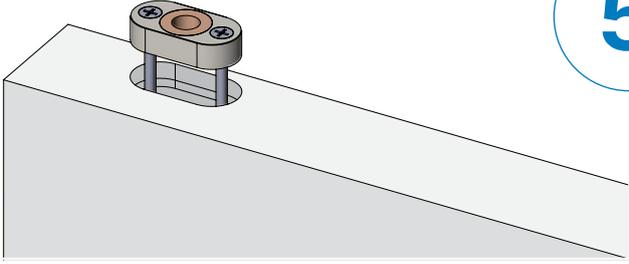
Unwind the Hex-screw as far as it will go (anticlockwise) to allow the top pivot to retract flush into the head.



## 5

## Install Top Pivot &amp; Bottom Strap

5.1

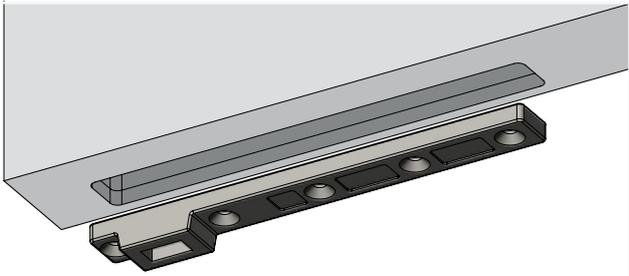


**5.1** Fit the **Top Pivot Bush** into the top of the door, fix with x2 screws (supplied).

**IMPORTANT**

If fire-rated, fit with the accompanying intumescent jacket.

5.2



**5.2** Fit the **Bottom Strap** into the bottom of the door, fix with x5 screws (not supplied).

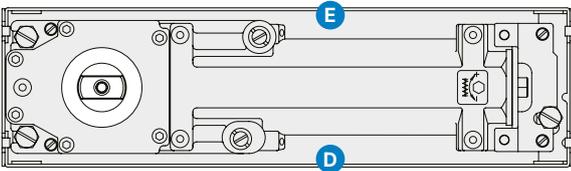
**IMPORTANT**

If fire-rated, fit with the accompanying intumescent strip.

## 6

## Prepare Floor Spring Spindle

6.1

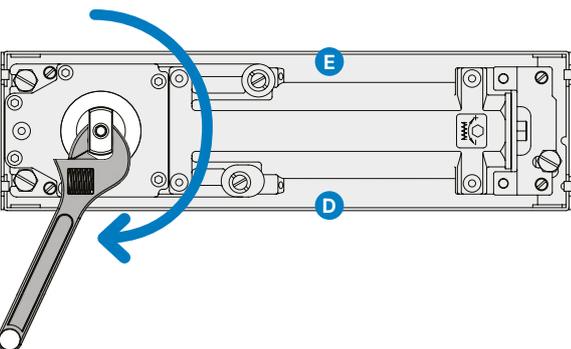


**6.1** Open valves E and D by turning them anti-clockwise by three turns. This will allow the spindle to move.

By default, all valves are closed.

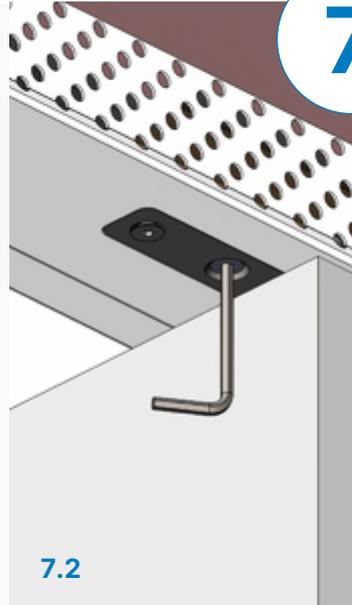
**6.2** Using a spanner or locking pliers, turn the spindle to 90° and close valves E and D fully clockwise to lock the Spindle in place.

6.2



## 7

### Install the Door

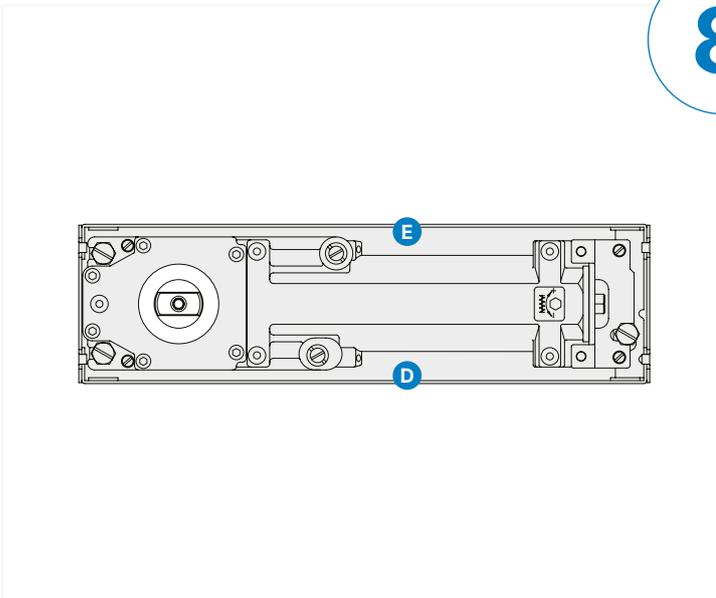


**7.1** Lift the door up on its end and locate the **Bottom Strap** over the **Floor Pivot-pin** on the reveal side.

**7.2** Swing the top of the **Door** into an upright position to locate the **Top Pivot** into the **Pivot Socket**. Once located, **tighten the Hex-bolt** with the **Hex Key** provided to lock the **Pivot** securely into position.

## 8

### Release Spindle



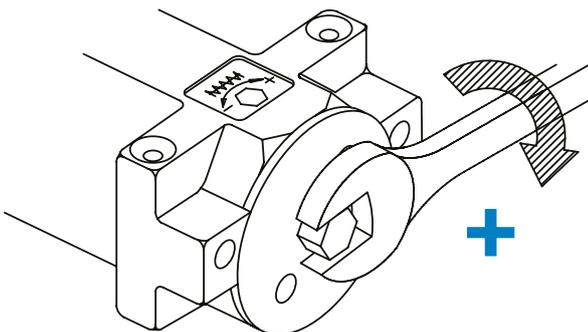
Open valves **E** and **D** by turning them **anti-clockwise by three turns**. This will allow the spindle to move and the door to close.

## 9

### Adjustments (Spring Tension)

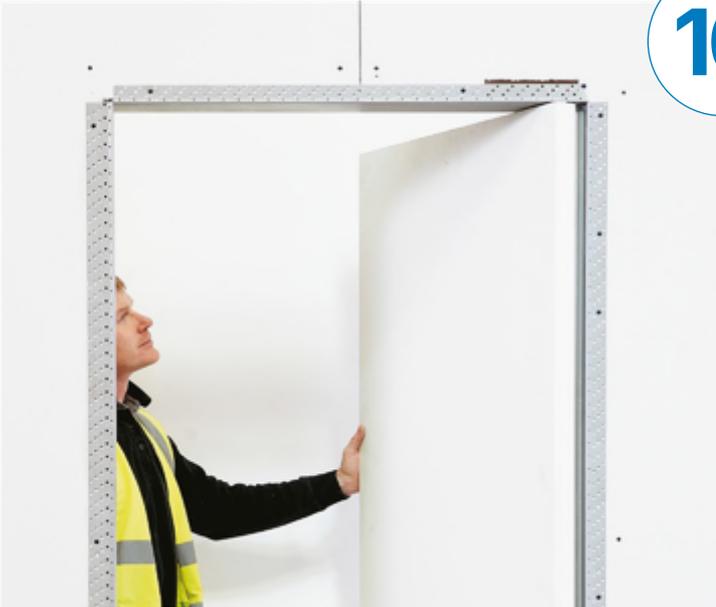
If necessary, adjust the closing force according to chart below:

Door Width	Full Turns
762mm	+3
914mm	+6
1067mm	+10
<b>Note:</b> Max. 12 turns from minimum setting.	



## 10

## Check Fitment

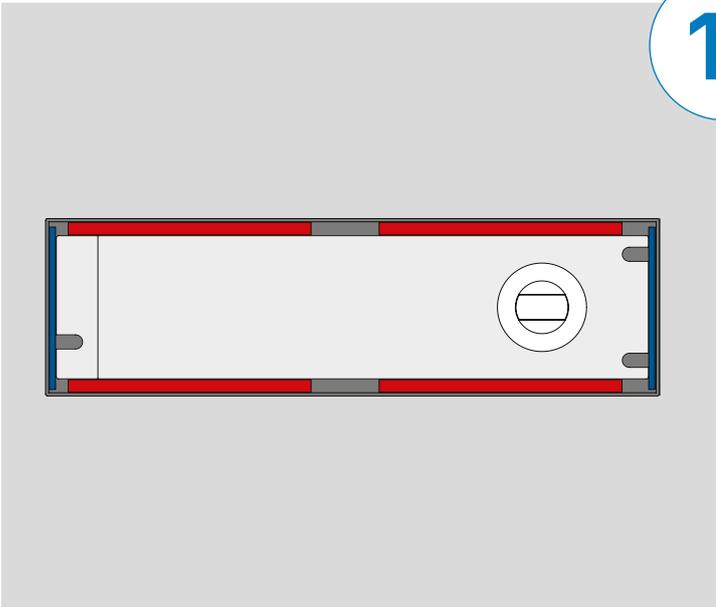


Swing the door, open and closed to ensure it is operating freely. Check that the gaps around the sides are **2.5mm–3mm**. Make adjustments to the frame if required. If doors have not been provided with the frames, a dummy door can be provided.

Now that the 'swing' and the frame-alignment are correct, the Door can be removed and put aside until the plastering and decorating are complete. See backcover for storage advice.

## 11

## Pack Gaps

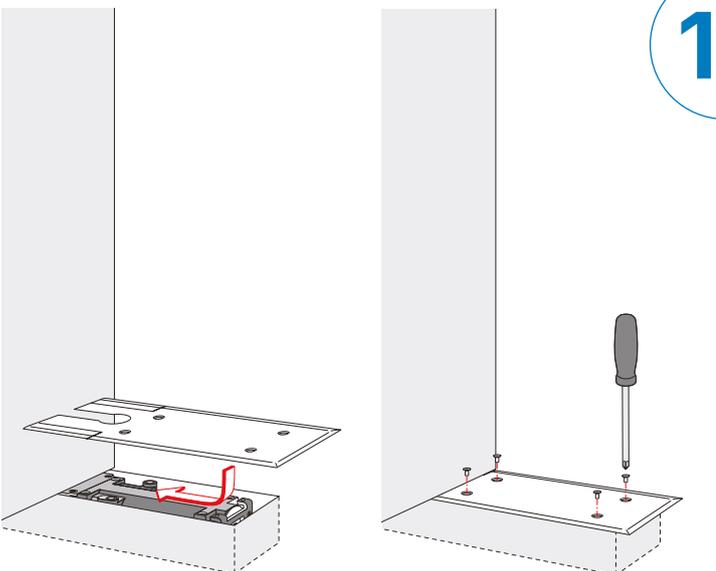


With heavy use it is possible for the adjustment screws to loosen, packing the gaps prevents this.

Use **plastic packers to pack around the floor spring** to prevent any future movement.

## 12

## Fit Cover Plates



**12.1** Install the cover plate or threshold.

**12.2** Secure with **four screws** (supplied).

**IMPORTANT**

If threshold is installed, do not anchor threshold to closer body, since closer is adjustable within cement case.

halo  
assist

For installation help and advice with your project:

**call** 020 3880 0339 / **email** sales@selo.global

### INSTALLER TRAINING

## Hands-on practical installation advice

Complimentary training is provided at our Milton Keynes headquarters. Learn installation tips and tricks directly from the manufacturer; helping improve standards with quality, compliant installations.

  
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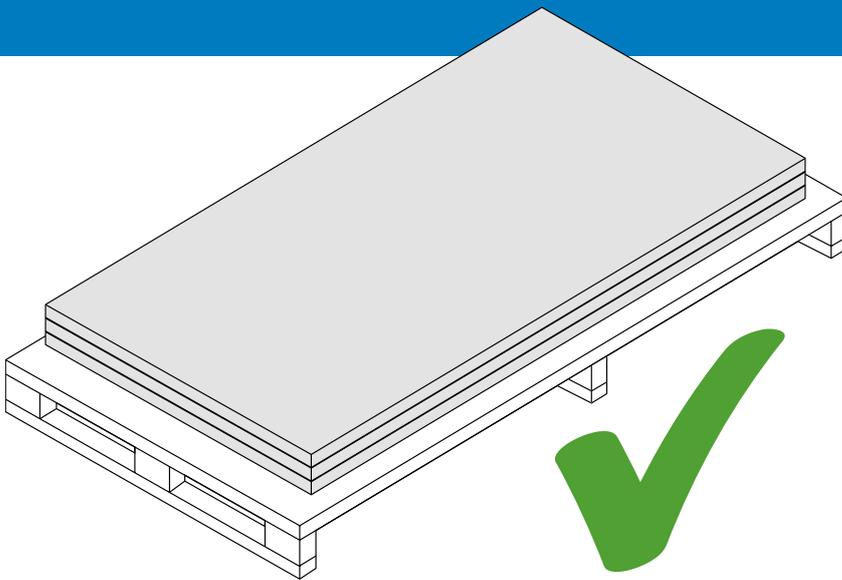
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# Correct storage of Innova+ Timber doors

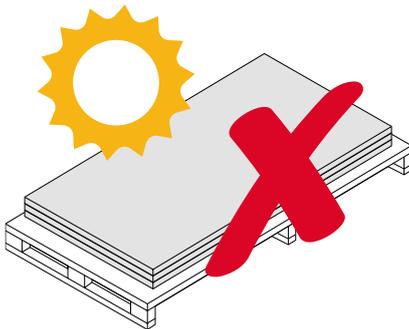
For help and advice with the installation of any Selo products,  
call our dedicated support team on **020 3880 0339**



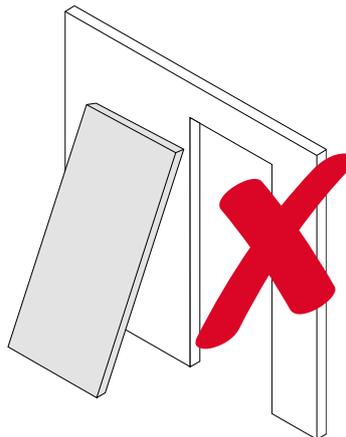
**ALWAYS**

**Lay the doors FLAT with  
the load spread evenly**

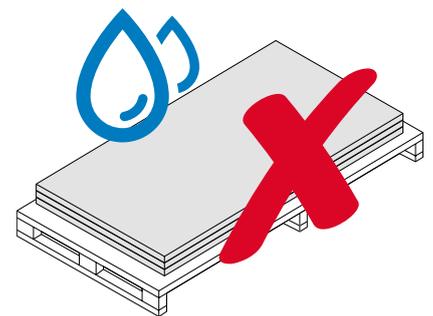
Incorrect storage could result in your  
doors warping, twisting or bowing.



**Avoid excessive  
temperatures**



**DO NOT leave doors  
leant against wall**



**Avoid moisture and  
damp environments**

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