

selo®

Concealed Frame Doorsets
Riser Doors & AOVs

Innova

Concealed doorset



Installation instructions

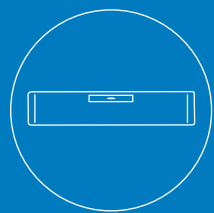
Thank you for choosing Innova

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

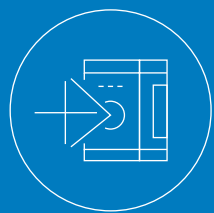
Tools required



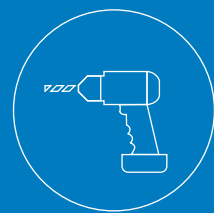
Pencil



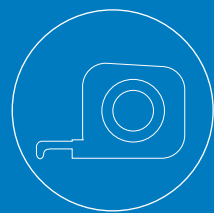
Spirit level



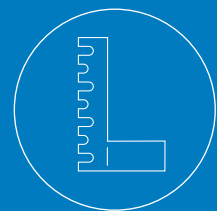
Laser level



Cordless screwdriver



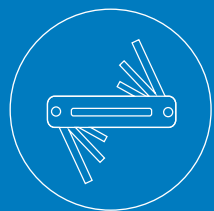
Tape measure



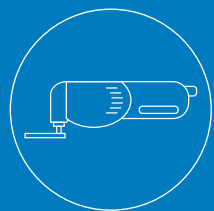
Set square



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 masonry walls, you will need to ensure the wall itself meets the correct fire resistance performance.

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

tel 020 3880 0339 **email** sales@selo-uk.com

Wall construction preparation

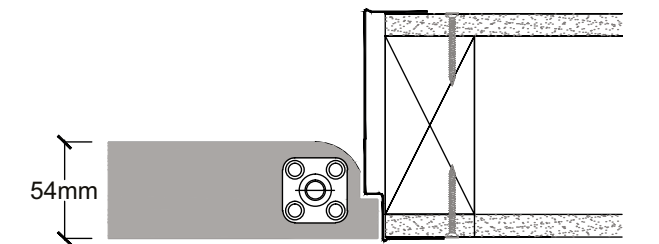
The Innova system is suited for use on studwork partitions of either steel or timber studwork.

Studwork wall construction

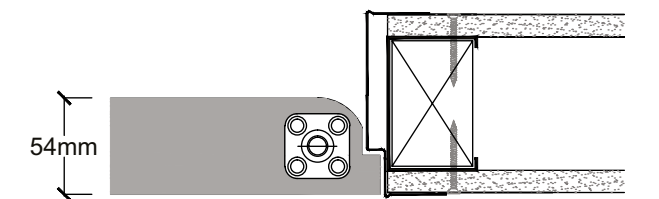
The Selo concealed frame doorset systems are ideally suited for use on studwork partitions of either steel or timber studwork.

IMPORTANT

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



Timber stud partitioning



Metal stud partitioning

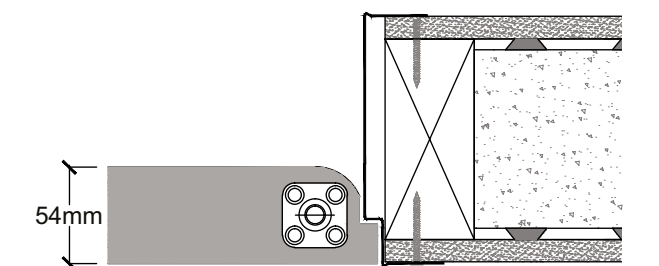
The illustrations shown are **NON FIRE RATED** - Please consult a wall designer for fire rated details

Masonry wall construction

If Innova is being used on a masonry wall, then a timber stud is required within the opening. Once this has been fitted, then the wall is clad with plasterboard using the 'Dot-&-Dab' method by fixing the plasterboard to the wall with drywall adhesive. 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.



Dot-&-Dab

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



1

Double-stud Head

Construct your Stud partition with a Double-stud at the head. This is to provide extra strength due to the notching required for the Pivot-hinge.

Structural opening calculations:

Width Door leaf width + 15mm
Height Door leaf height + 15mm
+ Floor thickness



2

Level up

When forming the actual opening, ensure you are working to the correct structural opening.

Ensure the opening is square and level and the wall is plumb.



3

Notch Partition Head

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

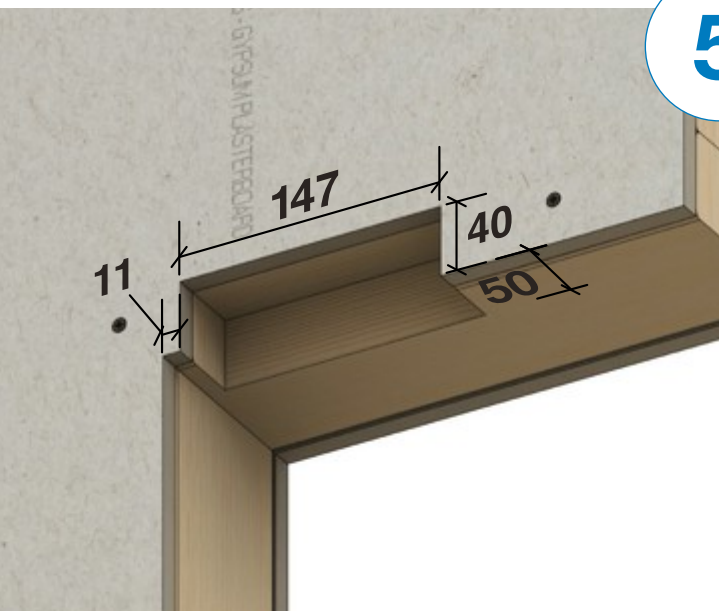


4

Notch preparation

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 side of the opening and draw around it.

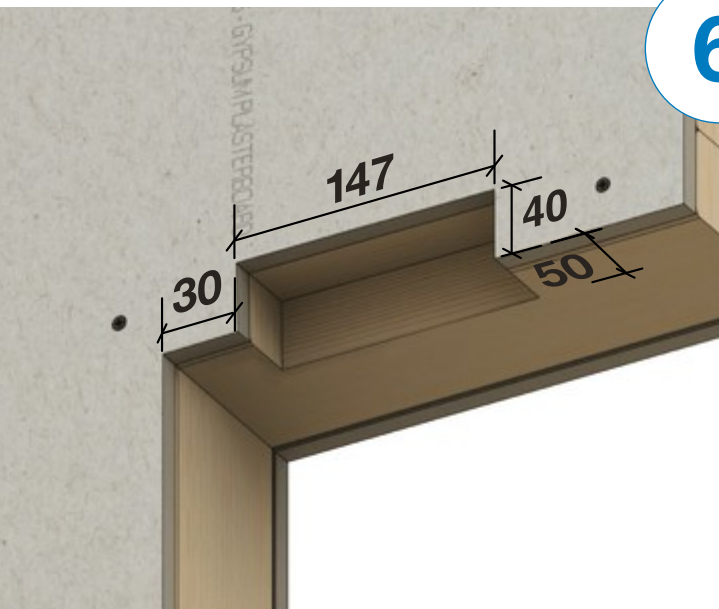
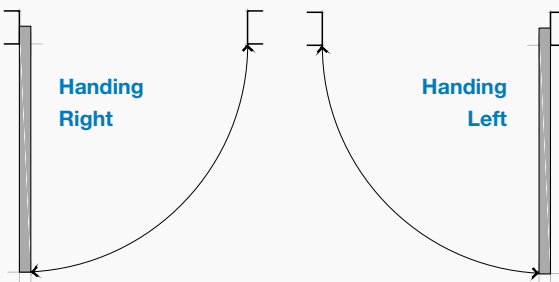


5

Standard Head notch size/position

The Notch size is as shown for the Standard Pivot.

IMPORTANT
Ensure you are working to the correct handing as shown below



6

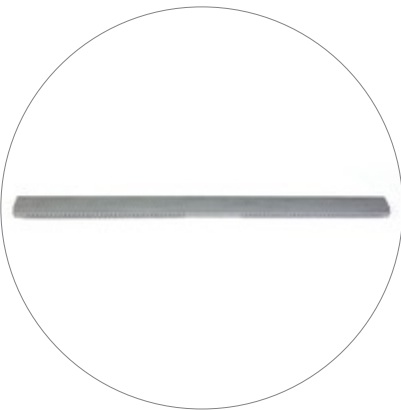
Self-closer Head notch size/position

If a Self-closer (Floor-spring) has been specified please notch the Head to the dimensions shown.

Getting started

Before installation, please ensure the system specifications correspond with your project schedule. Identify the components below and ensure you have everything prior to installation.

Frame kit



1 Hinge jamb



2 Strike jamb



3 Head jamb with pivot fitted



4 Strike plate and fixing



5 Pivot fittings



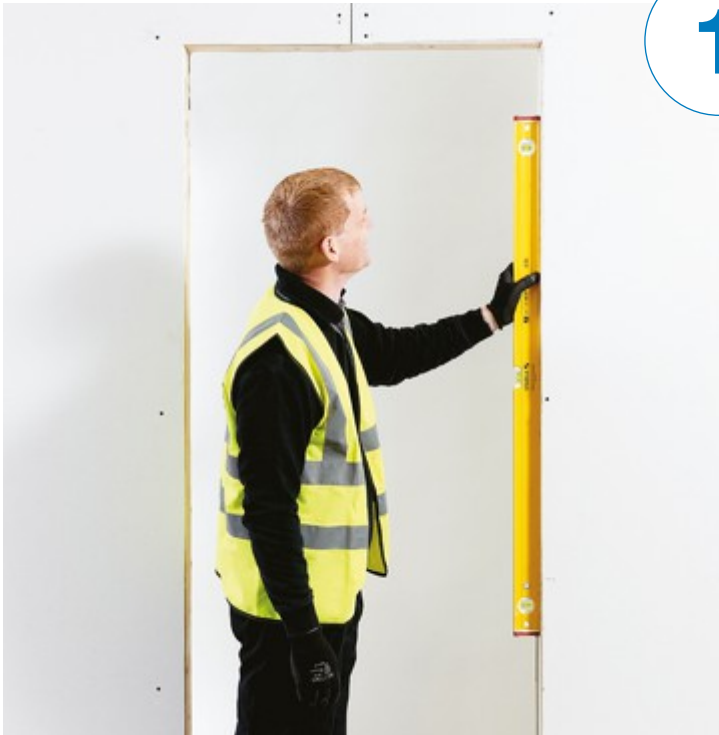
6 Door

Installation guide

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

1

Check opening



Ensure that the opening is square and level and the opening dimensions are correct.

Opening dimensions are obtained from the Selo Door Schedule provided for your project and also listed as standard opening width and height on the individual Frame Boxes.

2

Check notches



Standard

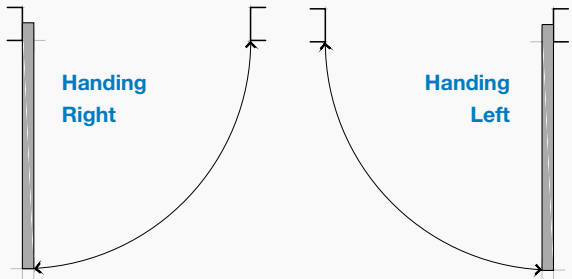


Self-close

Ensure the Head has been notched to accommodate the top Pivot-hinge. If a Self-closer (Floor-spring) has been specified the Head needs to be notched as shown.

IMPORTANT

Ensure you are working to the correct handing as shown below



3

Mineral Wool installation

Before installing the frame, staple **Mineral Wool** to the inside of the structural opening, appropriate thickness to the frame gap.

IMPORTANT

This is required to insulate the frame from fire.

4

Hinge Jamb

Insert the **Hinge Jamb** frame tight against the stud. When plumb and straight, fix through both perforated side flanges with x4 Drywall Screws (min. 50mm long) evenly spaced along the flange.

IMPORTANT

Do not completely secure frame yet.

5

Head Jamb installation

Install the **Head Jamb**. Locate the end of the Head into the rebate on the Frame and fix through the Perforated side-flanges as before.

The corner junction should look as shown.

6

Strike Jamb installation

Install the Strike Jamb by locating it into the Head and fixing into place. Ensure that the spacing between the two Vertical Frame Sides is equal and the Jambs are square. You will need to notch the Stud to allow for the Strike-plate insert.

7

Preparing the Pivot

Once all the Jambs are fitted, double check that it is square level and plumb.

8

Retract the Hex-head Screw

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

9

Fit Pivot Base-plate

Use a Laser-level locate the centre of the top Pivot pin in the Head Jamb and mark this position on the floor. Do this in two directions so the door is parallel and square to the wall. If using a Self-close (Floor-spring), please refer to the additional fitting instructions provided.

IMPORTANT

The door leaf provided will be made to give you a 5mm undercut. You will need to let the Pivot Base Plate into the Floor by 5mm to achieve this.

10

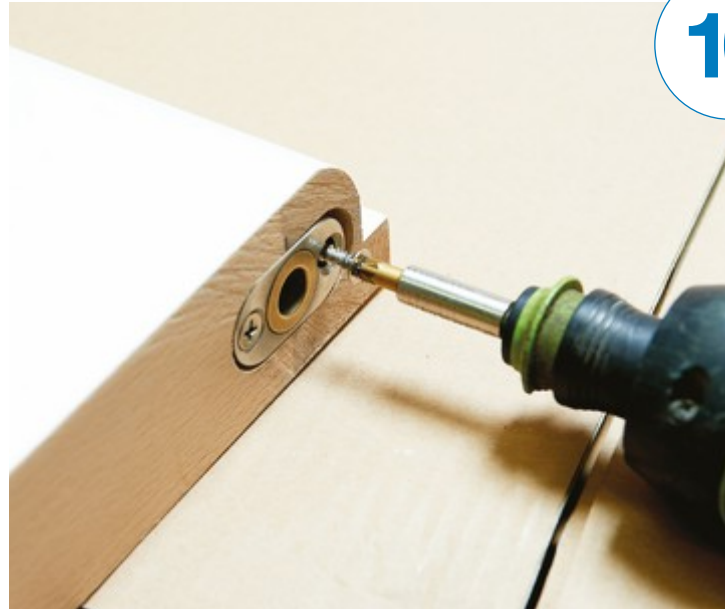
Fit Pivot Sockets

Calculate the Pivot Socket centres by measuring the distance from the pivot centres to the edge of the frame, minus 3mm for the door gap.

Fit the Pivot Sockets to the Door.

IMPORTANT

If the door is fire rated then the Pivot Socket needs the 1mm Intumescent supplied pad applied to it before it is fitted to the Door.



13

Check fitment

Swing the Door, open and closed to ensure it is working correctly. Check that the gaps around the sides are 2.5 - 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 it's correct position. Ensure the Frame is level, plumb and square.



11

Hang Door

With assistance lift the Door up on its end and locate the bottom socket over the Floor Pivot-pin as shown. Install the Door to ensure it swings correctly and smoothly.

IMPORTANT

If the Doors have not been supplied with the Frames then a ensure the frame is level, plumb and square and go to step 14.



14

Fix every 200mm

Check that all the Perforated Side Flanges sit flat against the Plasterboard and screw at 200mm centres all around the Frame through the Perforated Holes into the Studwork. Double-screw all ends and corners as shown.

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 page 15 for correct storage of doors.



12

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.

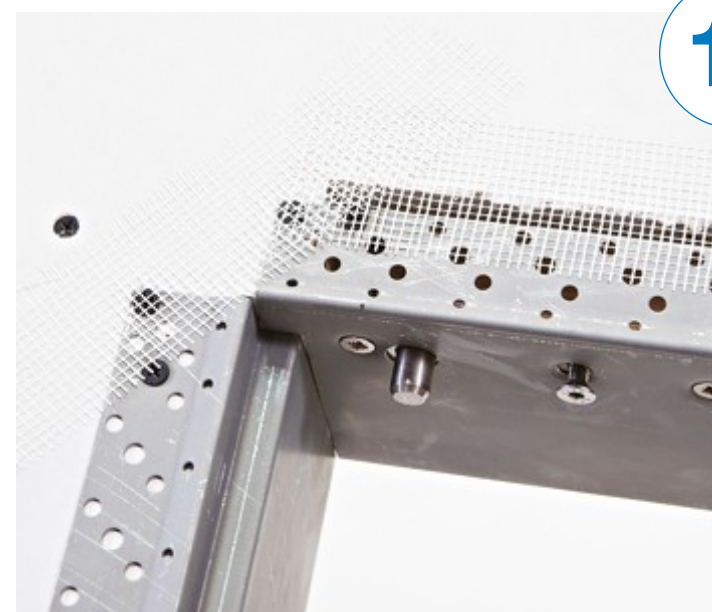
Once located, tighten the Hex-bolt with the Hex Key provided to lock the Pivot securely into position.



15

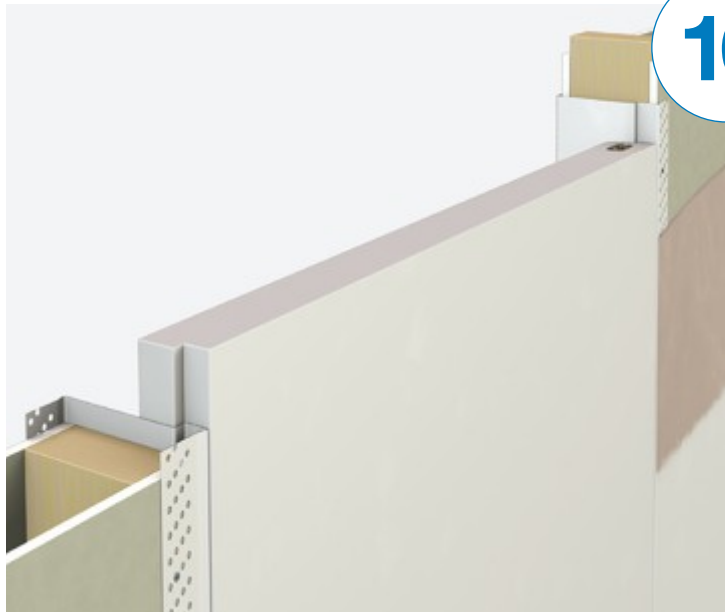
Plaster Tape

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



16

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

Fitting the Latch



Fit the Latch or Lock to the Door. Fitting of the Latch-plate is straight forward as it is surface mounted over the Frame via 2 PH2 Self-drilling Screws.

IMPORTANT

Use a low-torque Drill to avoid turning the Screws from the Frame.

FIRE CERTIFICATION NOTE

If the Doorset is Fire-rated then the Lock or Latch used will need to be lined with a 1mm Intumescent Pad.

17

Hang Door

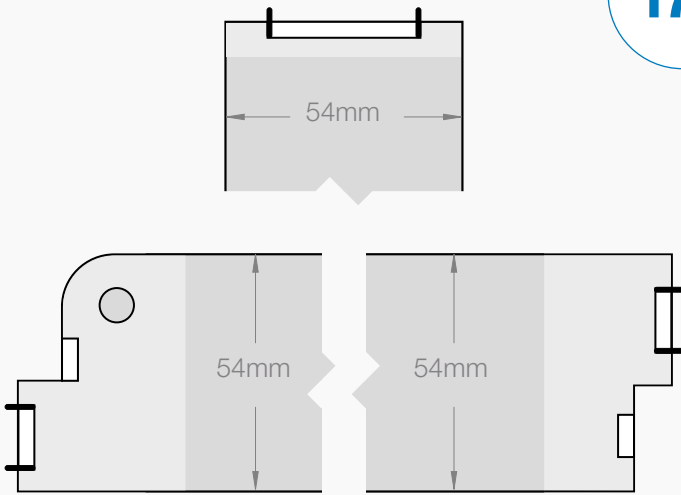


The Door can then be re-hung. If the Door is Fire Rated then the Intumescent Strip will need to be fitted to the grooves in the Door edges. If the Doorset is Acoustic Rated then the Acoustic Seals will need to be fitted.

If minor height adjustments are needed refer back to Step 13.

17a

FD30 Intumescent Seal configuration



In order to achieve a FD30s Fire Rating the 3 sided Innova Frame requires Intumescent Seals to be fitted to the door as indicated:

- | | |
|---------------------|---|
| Head | x1 35x6mm Seal with Rubber-fins |
| Hinge Edge | x1 15x4mm Seal with Rubber-fins
x1 10x4mm Seal |
| Leading Edge | x1 15x4mm Seal with Rubber-fins
x1 10x4mm Seal |

Congratulations

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

Please refer to the following pages for options and adjustments.

Innova options

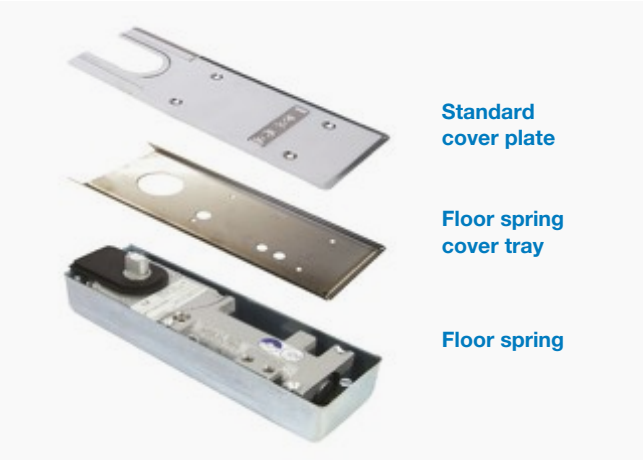
- › Self closing
- › Height adjustment
- › Fire rating



Innova options

Self-closer

If the doorset is required to be self closing then a floor spring pivot set is used. The bottom pin and socket are replaced with the floor spring box and bottom strap, which are installed in the usual sequence. The floor spring is covered by the cover plate shown or a floor spring cover tray which the flooring can be fitted into.



Door Height Adjustment

If the door sits too low when position it on the base pin 2 stainless steel height adjustment washers can be used with the pivot set.

There is a 1mm and a 2mm washer that can be placed over the top of the pin and then the door re-hung.



Fire Rating

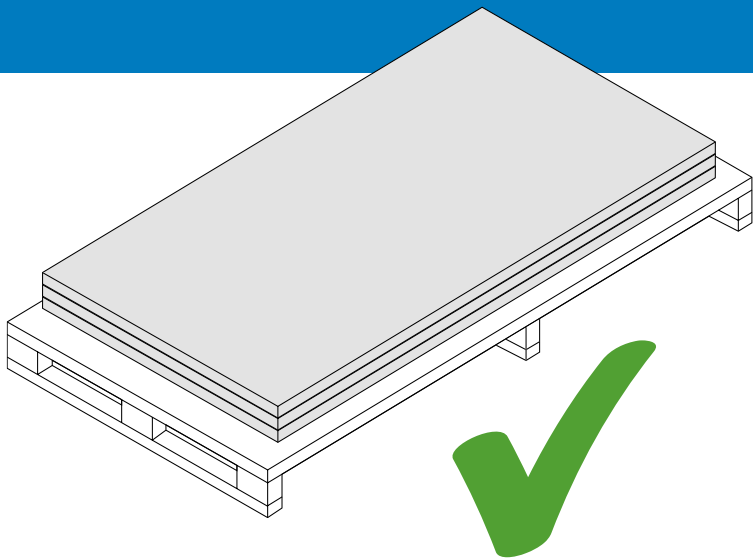
The Innova system is available with an FD30 certification when installed using intumescent seals.

To achieve the relevant specified fire rating intumescent seals will be provided. Doors will come with the appropriate pre-cut grooves ready for installation.



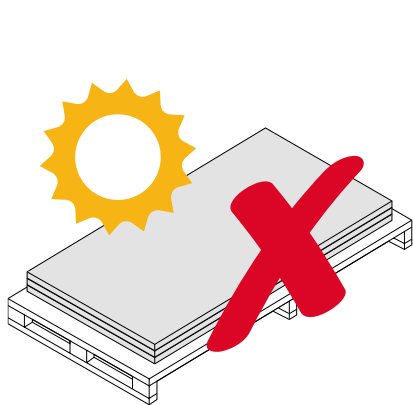
IMPORTANT

Innova advice Correct storage of timber doors

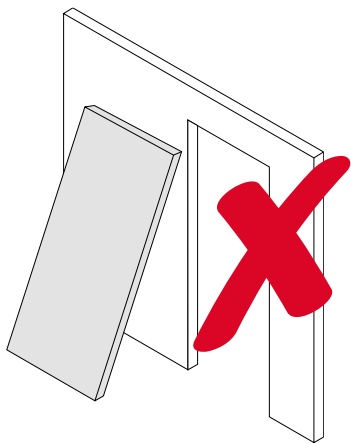


ALWAYS
Lay the doors FLAT with the load spread evenly

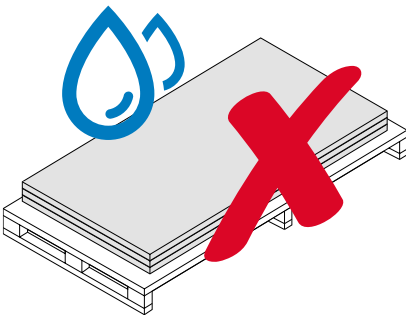
Incorrect storage could result in your doors warping, twisting or bowing.



Avoid excessive temperatures



DO NOT leave doors leant against wall



Avoid moisture and damp environments

For **help and advice** with any Selo
product, call the support team on:
020 3880 0339



selo®

call 020 3880 0339

email sales@selo-uk.com

www www.selo.global

Selo

K2 Kents Hill Business Park Timbold Drive
Milton Keynes MK7 6TT

Connect
[@selodoors](https://www.instagram.com/selodoors)

