

Required tools:



Pencil



Tape Measure



Screwdrivers



Caulking Gun



Laser Level



Drill Driver



Chop Saw

Installation Guide

PAS 24

Fire-rated Doorsets

Components

Identify the components prior to installation. Components may vary depending on specification ordered; other components may also be included that are not shown.

Please refer to your schedule to ensure you have everything. All doors come with a fixing pack of silver screws and Hoffmann clips.



Important fire rating notice

The fire rating of any doorset is subject to a number of external 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 Modulo Doorsets 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.

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

Frame installation

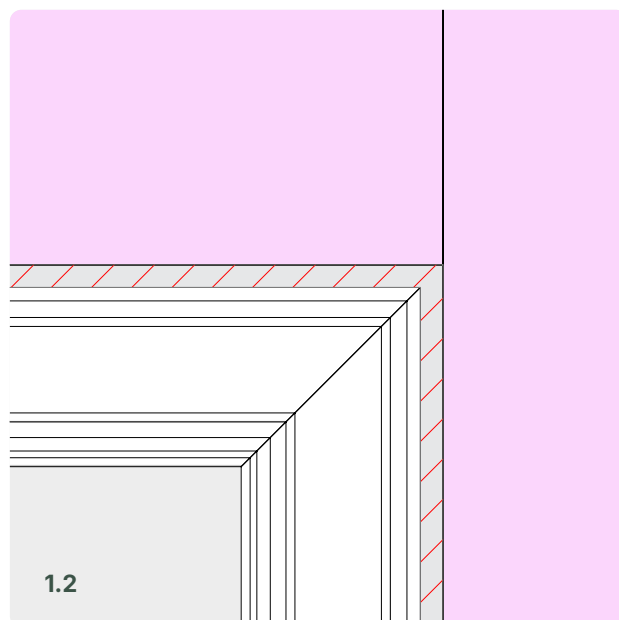
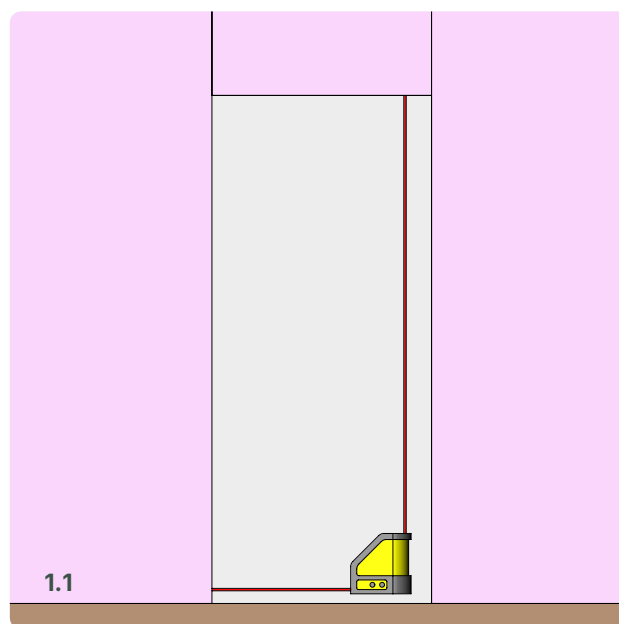
Modulo Doorset does not require timber or metal studwork reveals to be lined for compliance with EN 1634-1 and BS476-22:1987.

1. Check opening

1.1 It is important to ensure the opening is square and level. A laser level is ideal for this. Also check the structural opening (S/O) dimensions are correct.

1.2 Check the frame sections can be positioned correctly ensuring more than a 10mm gap at any point between the frame and the structural opening.

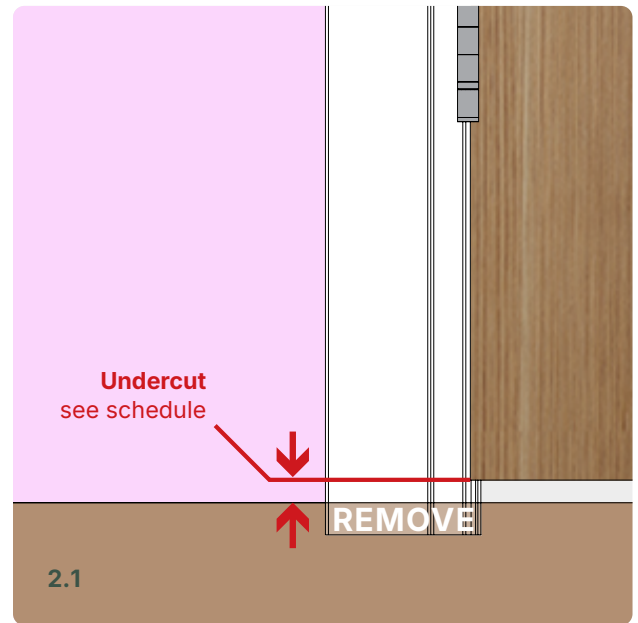
Note. If required for installation, the door can be removed by removing the temporary gold-coloured screws from the hinge on the frame side.



2. Frame undercut

If your door frame is supplied over-sized, the vertical jambs should be trimmed to achieve an undercut of **3mm to 8mm** for optimum fire resistance. If ambient temperature smoke control is required, a drop seal must be fitted (2.1).

If a **Drop Seal** is fitted an undercut of between **5mm to 8mm** is recommended.

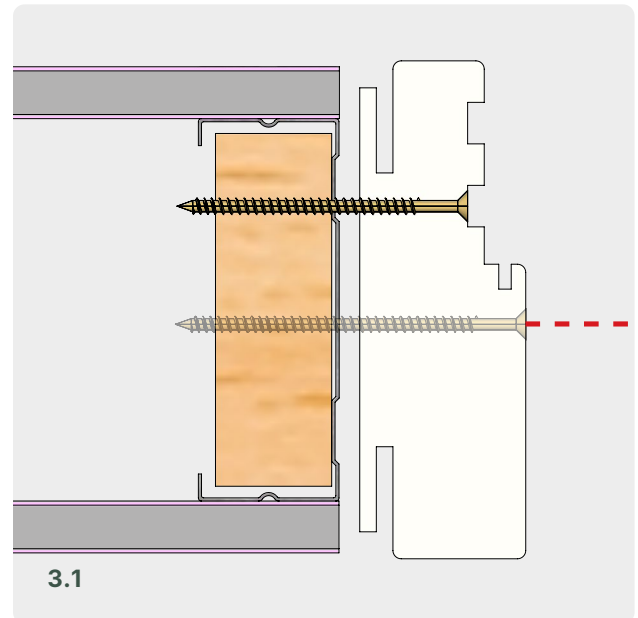


3. Hinge Jamb fixing

Both sides for double door

Stand frame into opening and ensure that it is located centrally and vertical in both dimensions. Fix hinge jamb(s) to the structure using suitable fixings and packers.

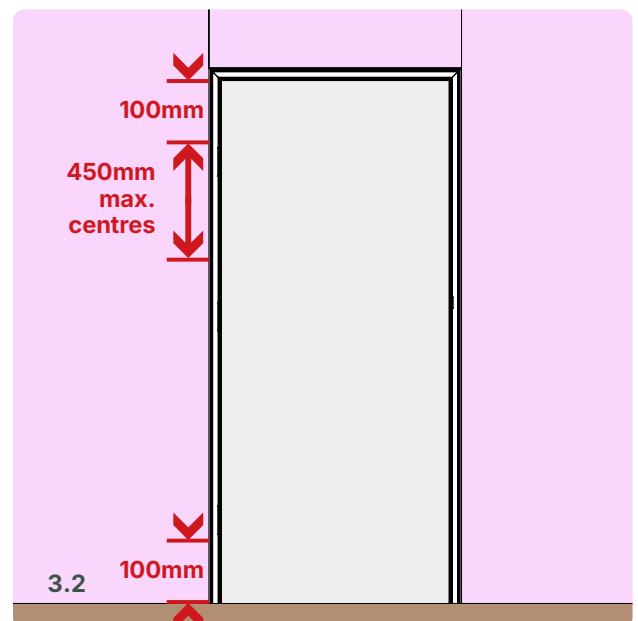
Note. Modulo Doorsets allow the use of both timber and standard plastic packers while complying with EN1634-1 and BS 476-22:1987. **Packers should be positioned behind each fixing** to ensure the frame is not deformed by the fixings.



Fixings can locate behind the second intumescent groove. Alternatively, fixings can locate through the stop as shown by the dotted line (3.1). **Ensure the screw head is flush** in both scenarios.

Jamb fixings must be positioned at no more than **100mm from the top and bottom** and at no more than **450mm centres** (3.2).

Screws should be a minimum of **5mm gauge** of sufficient length to ensure a **50mm minimum penetration** into the supporting structure.



4. Install Strike Jamb

Single door only

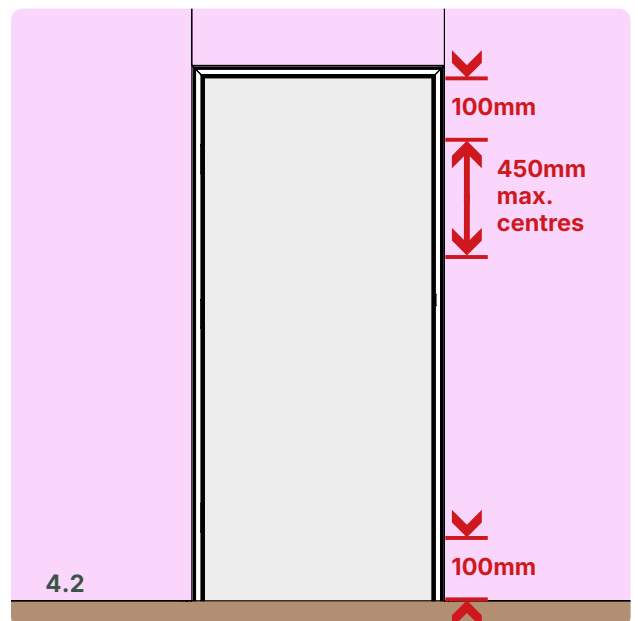
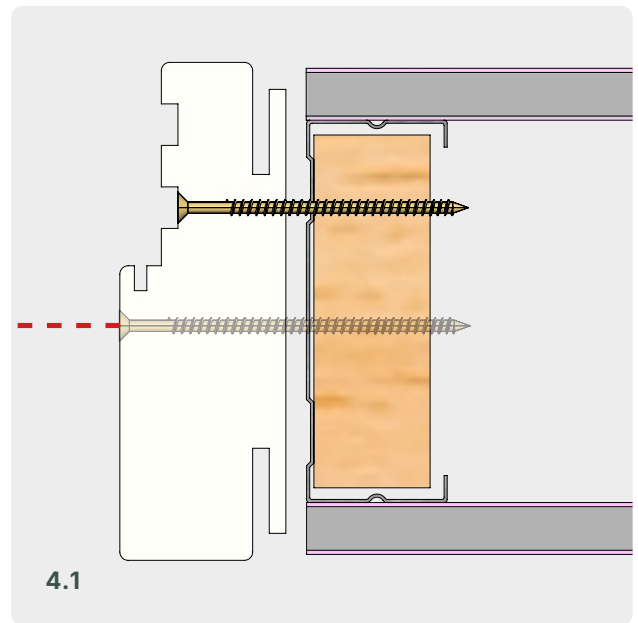
Fix strike jamb by aligning with leading edge of door leaf ensuring that correct gaps are maintained. Adjust as required and check door operates smoothly and correctly. Fix strike jamb to the structure using suitable fixings and packers.

Note. Modulo doorsets allow the use of both timber and standard plastic packers while complying with EN1634-1 and BS 476-22:1987. **Packers should be positioned behind each fixing** to ensure the frame is not deformed by the fixings.

Fixings can locate behind the second intumescent groove. Alternatively, fixings can locate through the stop as shown by the dotted line (4.1). **Ensure the screw head is flush** in both scenarios.

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Screws should be a minimum of **5mm gauge** of sufficient length to ensure a **50mm minimum penetration** into the supporting structure.



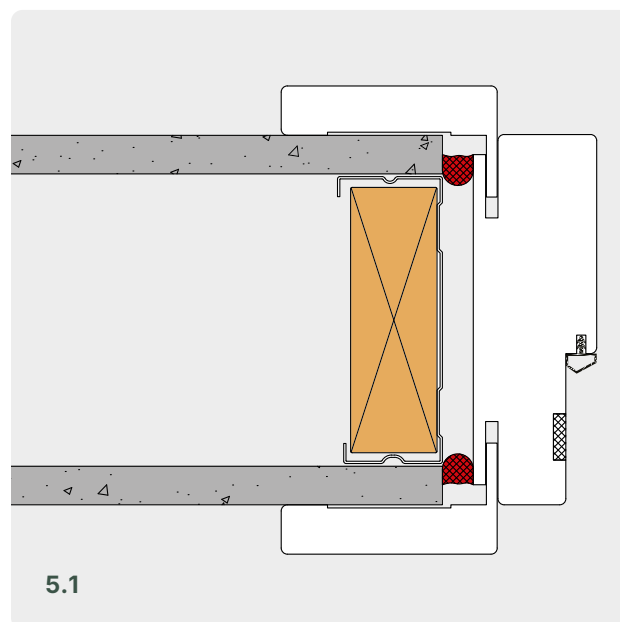
5. Fire stopping

1-10mm gaps

Best practice

Gap must be sealed on both sides with a 10mm penetration to the full width of the gap with acrylic intumescent sealant, fire tested for this application to BS 476: Part 22:1987 or BS EN 1634-1.

Timber architraves may be fitted to one or both faces (5.1).

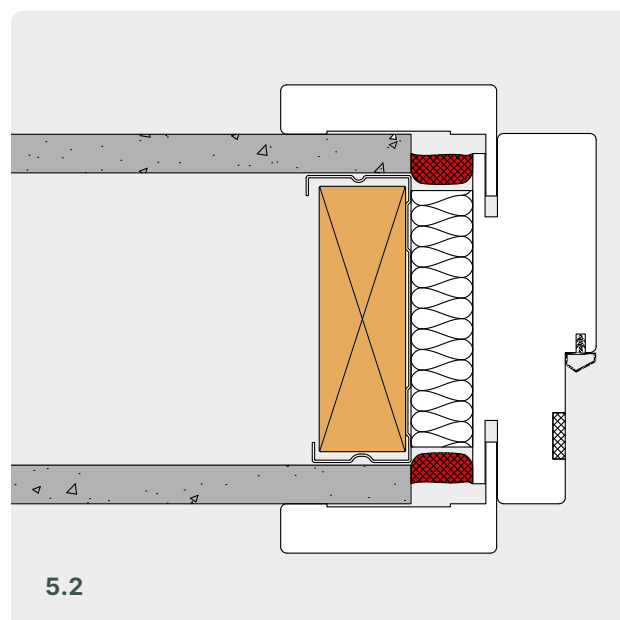


10-20mm gaps

Gap must be tightly packed with mineral fibre capped on both sides with a 10mm depth of acrylic intumescent mastic, (Fire tested for this application to BS 476: Part 22: 1987 or BS EN 1634-1).

Alternatively, as tested Nullifire FF197 fire rated PU Foam can be used (Must be full depth of the frame).

Timber architraves may be fitted to one or both faces (5.2).

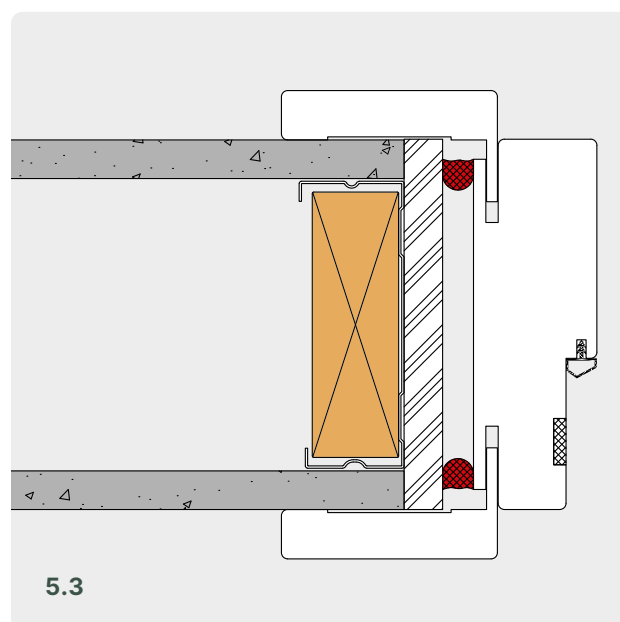


20mm+ gaps

Ensure security is maintained if gaps are this size

A non-combustible subframe/liner (up to 40mm thick) should be fixed to the surrounding structure to reduce the gap to below 10mm and then follow the 1-10mm fire stopping procedure.

Timber architraves may be fitted to one or both faces (5.3).



Architrave installation

(Optional)

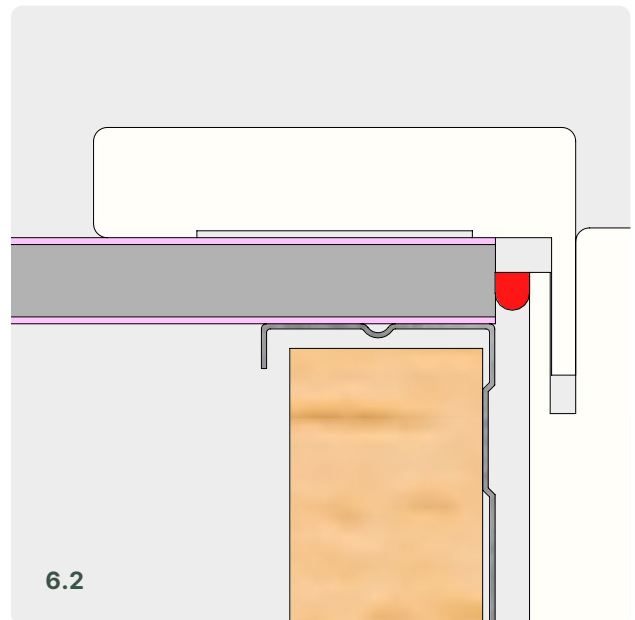
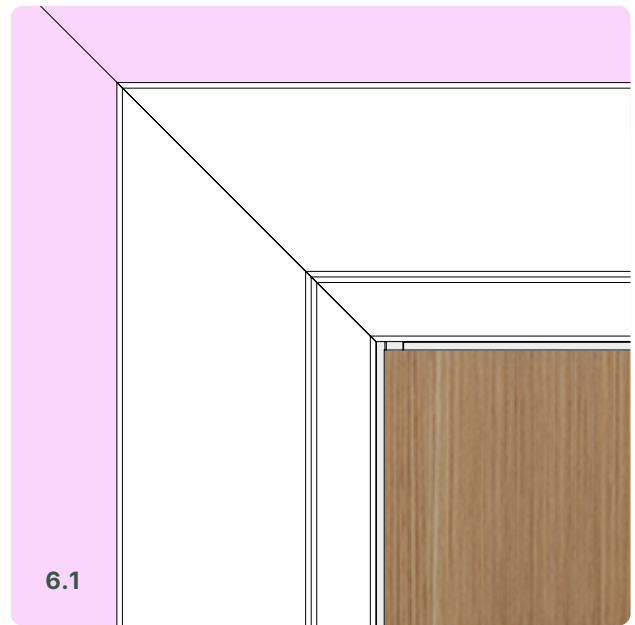
The Architrave can be pinned or glued in place. If glued, use an adhesive that has been approved for use on fire doors.

6. Prepare Architrave

The **head architrave** is delivered pre-mitred (where applicable machined for Hoffmann® jointing).

The **jamb architraves** are mitred one end (where applicable machined for Hoffmann® jointing) and oversized for trimming by installer **(6.1)**.

To install the architrave push the 'tongue' of architrave firmly into the frame groove. The architrave joints can be bonded with a suitable adhesive, remove any excess **(6.2)**. **Adhesive must not go into the frame groove.**



7. Hinges and final adjustments

Remove the temporary gold-coloured screws fixing the hinge to the frame. Replace with the permanent stainless-steel screws **4.5×25mm** supplied **(7.1)**. The longer screws will pick up the stud behind.

Failure to replace the temporary screws will mean that the door is not fire-rated. Ensure intumescent pads are not removed during this stage.

Hinge alignment/location can be assisted by temporarily loosening the leaf hinge screws. Ensure all gaps to the top and vertical edges of the door leaves are between **2-4mm**.

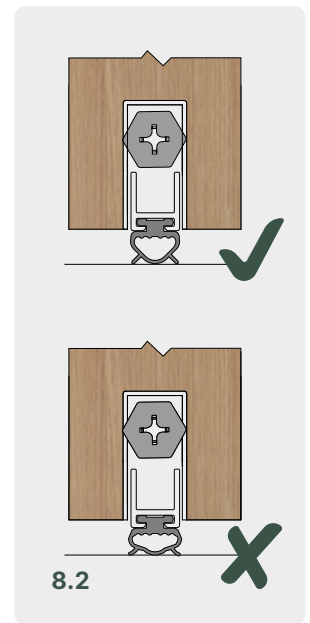
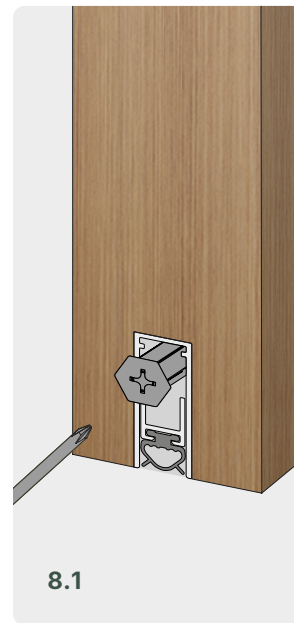


Final checks

It is important to complete the following final checks and adjustments to complete the installation of your doorset.

8. Dropseal

If a dropseal is fitted, after installation of the final floor covering, adjust the dropseal travel by rotating the nylon screw (8.1) at the hinge edge of the door, ensuring it drops sufficiently when the door is closed (8.2).



9. Ironmongery

The below surface mounted ironmongery is available to be specified on PAS24 door sets. Please follow the relevant instructions detailed below:

Door Closer

Use manufacturer's instructions supplied.

Lever Handle

Ensure fixing screws are on the secure side of the door.

Cylinder

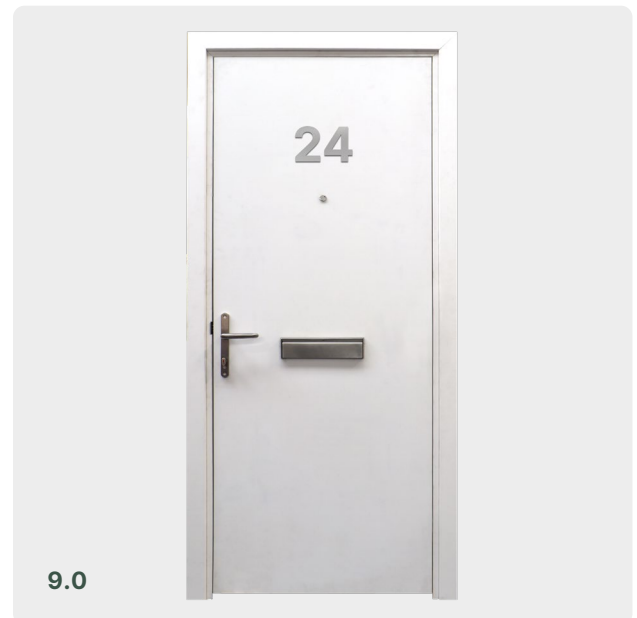
Ensure thumb-turn is correct orientation.

Door Knocker

Use manufacturer's instructions supplied.

Door Chain, FDKS Signage, Numerals, Kickplates and Doorstop

As per site requirements.



10. Finishing and protection

Modulo doors are suitable only for internal use in a dry environment.

Do not paint over fire labelling / fire plugs pre-applied to the door.



INNOVATION BY SELO.

Installation support **020 3880 0339**

Email support@modulodoorsets.com

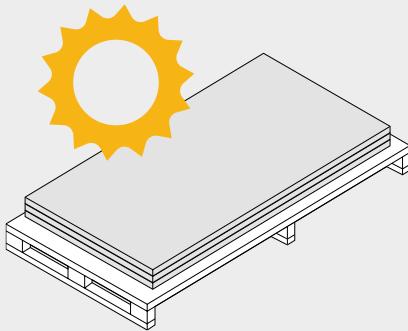
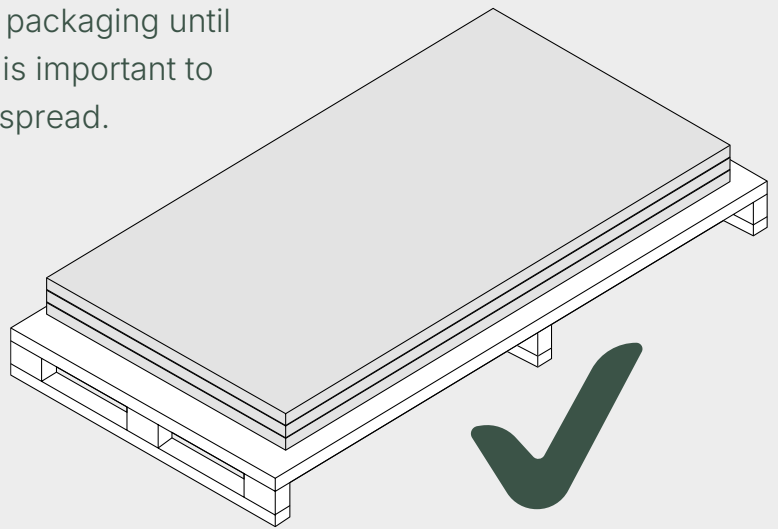


Storage requirements

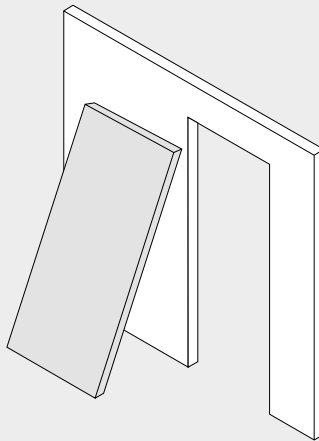
All components are provided in protective packaging for transit, they may be stored in their transit packaging until ready for installation. Once unwrapped it is important to lay components flat with the load evenly spread.

Always lay the doorsets FLAT with the load spread evenly.

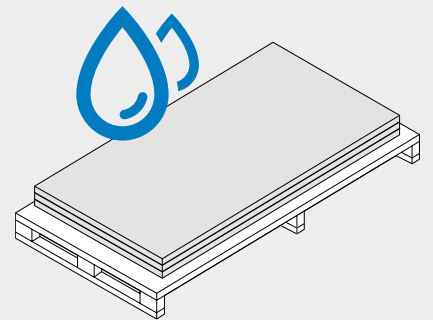
Incorrect storage could result in your doorsets warping, twisting or bowing.



Avoid excessive temperatures



DO NOT leave doors leant against wall



Avoid moisture and damp environments

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Modulo Doorsets reserve the right to alter specification and designs without prior notice.