



## Aluminium Internal Doors & Screens

### Installation Guide for Aluminium Internal Doors & Screens

This installation guide contains key information you need for installing Alu Space internal doors and screens....

#### Quality Assurance & Delivery

Before delivery, your door will undergo a quality assurance process to verify that it aligns with the specifications outlined in the order contract and meets our stringent quality standards.

To safeguard against any damages during transit, all items will be packaged for protection.

Upon the arrival of your delivery, the driver will require assistance unloading the items.

Please be advised that sealants, trims, fasteners, and packers are not included.

#### Installation Guidelines

When conducting the installation, it is crucial to ensure that all parts are plumb, level, square, and free from twist.

Here's a breakdown of what these terms entail:

Plumb: Refers to a perfectly vertical line, perpendicular to the horizon, forming a right (90-degree) angle.

Level: Denotes a perfectly horizontal line, oriented from side to side.

Square: Indicates perfect corners, each measuring exactly 90 degrees.

Free from Twist: Implies that all parts are correctly aligned, with vertical lines plumb, horizontal lines level, and corners square.

This pertains to ensuring that the frame and/or door panels are not tilted or sloped in any manner.

Adhering to these specifications is essential, as any deviation can result in improper functionality of the doors.

It's imperative that every component maintains exact orientation without any leaning in any direction.

#### Equipment Required

The following equipment is necessary for installation but is not provided with the order:

- Electric/Battery drill
- Various drill bits
- Selection of screwdrivers
- Selection of Allen Keys
- Tape measure
- Rubber / soft hammer
- Spirit level
- Suitable fixings
- A selection of wedges/packers
- Silicone sealant



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#### Preparation & Unpacking

Before commencing the installation of the door and/or screen, and prior to removing the old door and frame, it is essential to check all dimensions to ensure they align with your opening accurately.

It is strongly recommended that old doors should not be removed until all new materials are on-site, thoroughly inspected, and confirmed to be in good condition and free from any damage or defects.

**Note:** Any damages or defects must be reported before starting the fitting process.

Damages or defects reported after installation will not be covered under our guarantee.

#### Delivery Checklist

Upon delivery, ensure the following items are included:

- Unglazed door frame, sash(es), and screens
- The correct number of glass panes
- Handle set with spindle and fixing screws
- Gasket bags for each type (per sash and screen)



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#### Aligning & Securing the Frame

To properly align the door frame in the opening:

- ✓ With the doors closed within the frame, carefully insert the frame into the prepared opening.
- ✓ Check that the top of the frame is level.
- ✓ Ensure that the frame is vertically aligned from side to side and from back to front (Figure 1.0).
- ✓ Ensure that the diagonal dimensions are the same to establish that the frame is square (Figure 2.0).
- ✓ Confirm that the frame is square and not bowed by measuring the width at the top, middle, and bottom (Figure 2.0).

To secure the frame in the opening:

- ✓ Use wedges (not provided) to support the frame in the opening. Place the wedges directly above the frame jambs, close to the vertical ends, to prevent frame bending and door entrapment.
- ✓ Insert packings into the gap between the frame and wall to prepare for permanent fixings.

**Note:** Many alignment and locking issues arise from incorrect frame installation.

Figure: 1.0

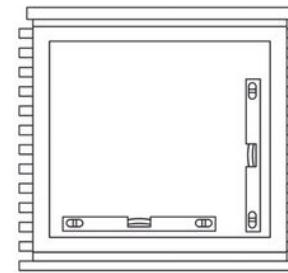
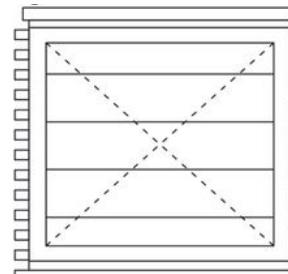


Figure: 2.0



**Note:** Doors are not shown but should be secured in a closed position.



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#### Fixing the Frame

Prepare to fix the frame to your opening:

- ✓ While maintaining the frame in a fixed position, open the door sashes.
- ✓ Support the door weight to prevent any disturbance to the frame position.
- ✓ Drill a minimum of five holes into the outer frame verticals, ensuring a maximum distance of 150mm from the top and bottom corners, and equally space the holes (Figure 3.0).
- ✓ The diameter of the holes will depend on the type and size of the fixing being used to secure the frame in the opening.

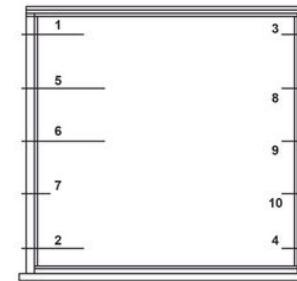
Secure the frame in the opening:

- ✓ Secure the frame to the opening using your chosen size of frame fixer (not supplied).
- ✓ When tightening the fixings, utilise packers to prevent the frame from distorting.
- ✓ Repeat the process for fixing the frame at the remaining points - following the guide in Figure 3.0.

**Note:** Continuously check the frame alignment points to ensure the frame has not moved.

At this stage, the doors should be checked for correct operation.

Figure: 3.0





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#### Glazing the Doors / Screens

Glaze the doors and/or screens:

- ✓ Ensure that the doors are in a closed position.
- ✓ Decide which door sash to glaze first, and carefully remove the beads while noting the positions.
- ✓ Fit the gasket to the frame side of the sash in pieces, not in continuous lengths. Leave the gaskets slightly oversized to avoid shrinking. Continue for the full sash (Figure 4.0).
- ✓ Add the glass packers following the "toe and heeling" process (Figure 5.0).

**Note:** It is crucial that the doors have the glass installed with the glazing packers fitted in the correct positions.

After fully packing out the glass:

- ✓ Re-bead by placing the beads back in their original locations in the sequence of top, bottom, then sides.
- ✓ Insert the wedge gasket between the beads and glass. This should be done in pieces, not in a continuous length.

Toughened glass is highly resilient on its front surfaces once installed but susceptible on its edges to sharp objects.

Avoid placing the glass edges directly on hard surfaces; use timber batons or similar as support if needed.

Figure: 4.0

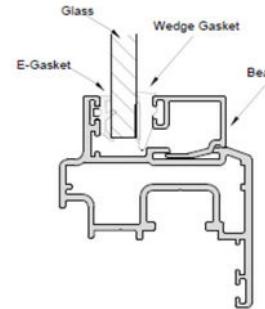
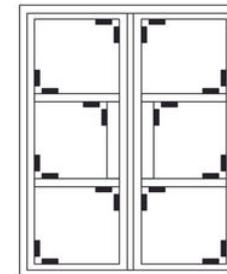


Figure: 5.0





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#### Finishing & Checks

After the doors and/or screens are fixed into place and glazed correctly, it is important to thoroughly check the operation to ensure that it closes correctly. The door lock operates via a magnetic latch that engages when the door is closed.

Once the door is operating correctly, any remaining gaps should be filled with a flexible filler or dressed with trims (not supplied).

#### Maintenance Guidelines

To uphold the quality and longevity of our products, it is recommended to periodically wash them down with a non-abrasive cleaner and warm water. This will help to remove any accumulated dirt or grime and keep the products looking their best.

In addition, for maintaining the mechanism and hinges, it is crucial to ensure that they are clear of obstructions and any other objects that may impede their proper functioning.

Furthermore, all moving parts should be regularly lubricated using a light, acid-free lubricant in order to guarantee continual ease of operation. This routine maintenance will help to prevent any potential issues and extend the lifespan of the products.

#### Disclaimer

This installation guide serves as a resource containing key information relating to the installation of Alu Space internal doors and screens. It is important to note that this guide does not provide a step-by-step manual for the installation process.

Please be aware that doors and screens purchased on a supply-only basis do not come with additional fitting support or guidance beyond what is outlined in this guide. We recommend consulting with a professional if you encounter any challenges or uncertainties during the installation to ensure the proper fitting and function of the doors and screens.

#### Guarantee Coverage

We take pride in the quality and durability of our products. To give you peace of mind, our comprehensive guarantee ensures your investment is protected:

10-Year Manufacturer Guarantee

5-Year Guarantee on Glazed Units

12-Month Moving Parts Guarantee

25-Year Guarantee on Powder Coating

#### Turnaround Times

We offer industry leading turnaround times:

Standard Colours (White, Black, Anthracite Grey): 2 to 3 weeks\*

Non-Standard Single Colour: 3 to 4 weeks\*

\*Turnaround times may vary and are subject to change.