

Version 2.5
Installation

SILENTDOOR 
Open the doors to endless possibilities

Installation Guidelines .

SilentDoor Rw[®] Timber Acoustic & Fire Doorsets
Covering SilentDoor Rw[®] Essentials and SilentDoor Rw[®] Timber ranges

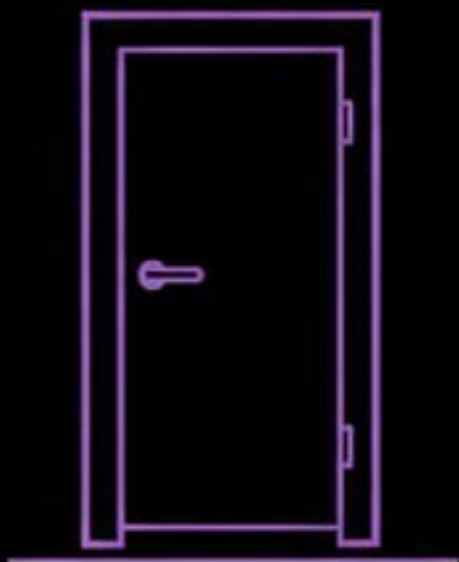
Rw Timber

Rw Essentials

SilentDoor[®]

Rw Essentials

Pre-primed | ready for paint



Pre-hung, set size, timber acoustic fire doorsets designed for fast installation, value and reliable performance.

SilentDoor[®]

Rw Timber

Premium bespoke timber range



Premium bespoke acoustic and fire doorsets with project specific configurations and finishes.



Tested
Performance



Acoustic &
Fire Rated



Simple
Installation



Site Checks &
photo records

Quality | Performance | Reliability

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Contents / index.

Page guide for the combined Rw Essentials and Rw Timber installation document.

Range key

Rw Essentials

Rw Timber

Shared guidance

Shared guidance (1)

-   **3.** How to use this combined guide
-   **4.** Reception, inspection and storage
-   **5.** Scope and evidence control
-   **6.** UK standards, guidance and project evidence
-   **7.** Range supply format and controlled components
-   **8.** Before the doorset arrives on site
-   **9.** Storage, handling and site protection
-   **10.** Opening survey prior to installation
-   **11.** Supporting construction and tolerances
-   **12.** Floor, threshold and swing zone
-   **13.** Fixings, packers, foams and sealants
-   **14.** Controlled fixings and supplied items
-   **15.** Alternate frame fixings
-   **16.** Guidance and evidence hierarchy
-   **17.** Recommended frame fixing sequence
-   **18.** Install / set the doorset frame
-   **19.** Plumb, level, square and in wind
-   **20.** Setting the frame into the opening

Shared guidance (2)

-   **21.** Frame restraint and alignment checks
-   **22.** Frame-to-wall and acoustic sealing
-   **23.** Packers and frame restraint
-   **24.** Frame packing and perimeter firestopping
-   **25.** Perimeter sealing completion
-   **26.** Leaf, hardware and seals
-   **27.** Leaf operation and hinge checks
-   **28.** Intumescent, smoke and acoustic seals
-   **29.** Closer, latch and strike commissioning
-   **30.** Threshold and drop seal adjustment
-   **31.** Final checks and handover
-   **32.** Final gap measurement
-   **33.** Final operational test
-   **34.** Defect avoidance
-   **35.** Troubleshooting guide
-   **36.** Protection during follow-on trades
-   **37.** Installation sign-off checklist
-   **38.** Maintenance, records and controlled changes

Shared / range-specific

-   **39.** Technical notes / supporting details
-   **40.** Site reference page
-   **41.** Additional reference page
-   **42.** Installer notes / references
-   **43.** Photo record for O&M file (if applicable)
-   **44.** Completion declaration (if applicable)
-  **45.** Appendix — SilentDoor Rw Timber
-  **46.** Rw Timber project-specific preparation
-  **47.** Rw Timber mitred frame assembly — Tenso P-14 clips
-  **48.** Swiss Planet automatic drop seal adjustment
-  **49.** Simonswerk Tectus concealed hinge adjustment
-  **50.** Painter guidance for primed glazed doorsets
-  **51.** Initial operation and bedding-in of seals
-  **52.** Optional automated access — Rw Timber projects
-  **53.** EasyDoor operator — surface-mounted installation
-  **54.** EasyDoor operator — concealed installation
-  **55.** EasyDoor operator adjustments and Assa Abloy 560
-   **56.** Final checks, handover & support

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

How to use this combined guide.

One installation guide. Two timber doorset ranges.

Shared installation principles are followed throughout. Where supply format, finish, performance or hardware differs, a range-specific note is shown.

SILENTDOOR Rw® ESSENTIALS

Essentials

Pre-primed | ready for paint

- Made to size and supplied pre-hung in its frame.
- Standardised controlled component set for efficient site installation.
- Current standard specification: FD60S and Rw45dB.
- Install as supplied – no unauthorised trimming, machining or substitution.

SILENTDOOR Rw® TIMBER

Timber (T)

Premium bespoke timber range

- Project-specific sizes, configurations, finishes and ironmongery.
- Fire and acoustic performance varies by project and approved evidence.
- Supply format may vary – check the project schedule and packaging details.
- Project-specific drawings and evidence take precedence over generic details.

Shared installation rules

- Confirm the door reference, wall type, finished floor level and project evidence before installation.
- Mechanically fix through solid packers into suitable structure; do not rely on foam, sealant or architraves for restraint.
- Maintain continuous fire, smoke and acoustic sealing, including a suitable hard threshold where a drop seal is used.
- Do not substitute controlled components or modify the doorset without written approval.

Range key  Purple chip = Rw Essentials

 Pink chip = Rw Timber

 Both chips shown = shared guidance

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Reception, Inspection and Storage.

To ensure the doors are in good condition and meet the specified design requirements at the time of installation, it is essential to inspect and handle them correctly upon delivery. Within the first 24 hours of receiving materials on site, the following checks should be carried out:

- **Verify packaging integrity:** Ensure all packages are correctly labelled, intact, and free from damage.
- **Inspect for transport damage:** Check for signs of mishandling such as dents, scratches, or breaks along corners, edges, or faces of the product.
- **Confirm labelling and documentation:** Cross-check delivery notes and labels to confirm that the correct door type, rating, and size have been supplied.
- **Storage conditions:** Store doors flat, off the ground, in a dry, well-ventilated environment. **Protect from direct sunlight**, rain, or extremes of temperature.

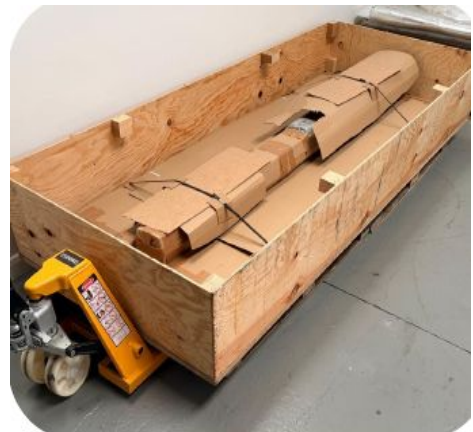


Proper inspection and storage will help prevent installation delays and ensure SilentDoor products maintain their performance characteristics.

Typical SilentDoor Packing



Rw Timber typical packing



Bespoke Rw Timber doorsets may be supplied in protective timber crates.

Unpack carefully and check boxed accessories separately.

Range-specific packing note

Packaging varies by range and project. Essentials is supplied as a made-to-size pre-hung assembly. Rw Timber is typically supplied in protective timber crates and may include project-specific components, finishes and hardware. **Account for all ironmongery, seals, fixings and accessories before disposing of packaging.**

Range note

Check the project schedule and delivery labels before opening multiple doorset packages; components may be boxed or grouped separately.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Scope and evidence control.

Use this guide for

- SilentDoor Rw Essentials pre-hung timber doorsets supplied as a complete assembly.
- SilentDoor Rw Timber bespoke timber doorsets installed to the project-specific schedule and approved evidence.
- Fire, smoke and acoustic applications within the tested / assessed configuration.
- New installations into prepared fire-rated partitions, masonry or other approved structural openings.

Do not use this guide for

- Substituting hardware, seals, frame sections, fixings or thresholds without written approval.
- Site-modifying the leaf, frame, glazing or ironmongery preparation unless specifically permitted.
- Upgrading existing uncertified frames unless supported by specific evidence.
- Installations outside the tested / assessed size, configuration, wall type or project evidence.

Golden rule

The fire, smoke and acoustic performance applies to the complete installed doorset and supporting detail – not to the leaf alone.

Project evidence takes precedence

Where this guide and the project-specific doorset schedule differ, stop and confirm the approved requirement before proceeding.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. UK standards, guidance and project evidence.

Confirm the latest project-specific evidence before starting work.

Fire resistance

Essentials: FD60S. Rw Timber: project-specific fire rating. Use the applicable test / assessment evidence.

Smoke control

Where an S-rated configuration is required, use the specified smoke seals, threshold detail and self-closing action.

Acoustics

Essentials: Rw45dB desktop-calculated performance. Rw Timber: project-specific acoustic evidence. Airtight installation is essential.

Installation

Current SilentDoor instructions, the project fire strategy and applicable BS / EN guidance take precedence.

Components

Hinges, latch / lock, closer, seals, glazing / vision panels and fixings must match the approved schedule.

Evidence hierarchy

1. SilentDoor project schedule
2. Fire certificate / assessment
3. Acoustic evidence
4. Current SilentDoor / BS guidance

Range performance

Essentials FD60S | Rw45dB | pre-hung

Rw Timber Project-specific fire / acoustic rating

Relevant standards and guidance

Approved Document B; BS 8214:2016; BS EN 1634-1; BS EN 13501-2; BS EN 1634-3; and BS EN ISO 10140-2 / BS EN ISO 717-1, where applicable.

Project-specific test evidence, assessments and SilentDoor instructions take precedence.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Range supply format and controlled components.

Both ranges are timber doorsets, but the supply format and level of customisation differ.

Feature	Rw Essentials	Rw Timber
Supply format	Made to size, pre-primed and supplied pre-hung in its frame.	Project-specific; may be supplied pre-assembled or as scheduled components. Check the delivery documentation.
Finish	Pre-primed and ready for site painting.	Premium bespoke finishes and project-specific decoration options.
Performance	Standard FD60S / Rw45dB configuration.	Fire, smoke and acoustic ratings vary by project evidence.
Ironmongery	Controlled standard set as scheduled.	Project-specific hinges, closers, locks, glazing and accessories.
Site rule	Install as supplied. No trimming or unauthorised machining.	Follow approved drawings and schedule. No unauthorised changes or substitutions.

Controlled components

Fire, smoke and acoustic performance depends on the matched leaf, frame, seals, ironmongery, threshold detail, fixings and supporting construction. Do not mix components between doorsets.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Before the doorset arrives on site.

STAGE 1

Before the doorset arrives on site.



Fire, smoke and acoustic performance depend on the complete installed doorset assembly, including the leaf, frame, seals, threshold detail, ironmongery, supporting wall construction and correct installation. Essentials standard performance is FD60S / Rw45dB; Rw Timber performance is project-specific.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Storage, handling and site protection.

To ensure SilentDoor products remain in optimal condition during site works and while multiple trades are active, appropriate handling and storage precautions must be observed.

A. Storage Instructions:

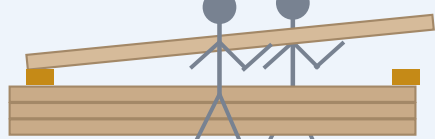
- Keep all packages **sealed and unopened** until required for installation.
- Protect the doors from climatic factors that may damage the timber, including:
 - Air currents
 - Direct sunlight
 - Water or high moisture exposure
- Store packages with a **minimum clearance of 0.5 m** from walls to allow ventilation.
- Stack packages **flat and level**, supported by at least four evenly spaced bearers (e.g., timber strips or pallets) to ensure uniform support and avoid warping.
- Maintain relative humidity in the storage area between **30% and 65%**.



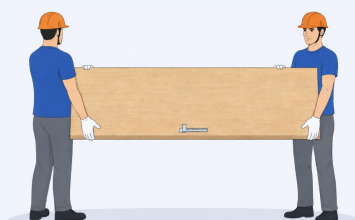
B. Protect People – Lifting Sequence:

- Assess the leaf weight, size, route and final landing point before touching the stack.
- Use a trolley, door lifter, vacuum / suction aid or other mechanical assistance where available.
- If manual handling is still required, use a suitable team lift with one person leading the commands.
- Stand close to the leaf, feet apart, one foot slightly forward, and keep the load close to the body.
- Raise the top leaf cleanly, **man either side** – do not twist, snatch or drag it sideways across the leaf below.
- Move in unison, rotate by moving the feet, and place the leaf immediately onto padded bearers or a trolley.

Recommended movement



Top leaf lifted clear **WITHOUT** sliding across the leaf below.



C. Protect the Door Leaf and the Leaf Below:

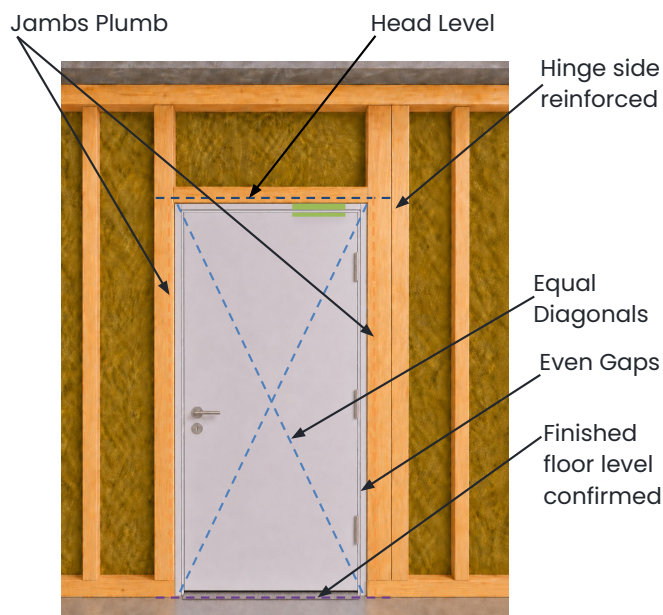
- **DO...Lift the top leaf cleanly**, keep edges clear, use gloves with good grip, and land onto padded bearers / an A-frame / trolley.
- **DO NOT...**drag the top leaf across the stack, lever on corners, drop onto hard surfaces, or rest unprotected edges against masonry.

By following these guidelines, the doors will remain stable, undamaged, and ready for installation when required.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Opening survey prior to installation.

Opening size	Check structural opening width and height against the SilentDoor schedule and frame allowance.
Wall type	Confirm the wall or partition is the same type as the approved fire/acoustic detail.
Jamb support	Stud partitions must have adequate framing, noggins and fixing support at both jambs and the head.
Substrate	Masonry, steel or timber support must be sound, dry, plumb and capable of taking fixings.
Services	No unsealed service penetrations or unsupported linings around the opening.
Access	Clear working area both sides of the opening for frame fixing, packing and sealant work.



Before installation, confirm that the structural opening is correctly sized, level, plumb and square. The head, jambs and hinge side must be adequately supported, with a complete and stable wall construction capable of accepting the frame fixings. Any defects should be corrected before the doorset is installed.

Installer Note(s)



The opening must be structurally sound and suitable for the specified fire and acoustic doorset prior to installation.



Do not force the doorset into a defective opening, correct the opening first

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Wall and substrate requirements.

Stud partitions

- Jamb studs must be adequate, stable and securely tied into the partition structure.
- Provide timber or metal fixing grounds where the doorset evidence requires them.
- Do not rely on plasterboard edges alone to carry the doorset load.
- Maintain the fire-rated wall build-up around the full opening.

Masonry or concrete

- Check that reveals are flat, plumb and free from loose material.
- Use the specified anchors and embedment depth for the substrate.
- Avoid fractured brick edges or weak mortar joints at fixing points.
- Make good any voids so firestopping can be installed continuously.

Acoustic point

Acoustic performance can be lost through flanking paths around the frame. Treat the wall-to-frame junction as an airtight detail.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Floor, threshold and swing zone.



- Finished floor level must be confirmed before installation starts.
- The swing zone must be flat enough for the leaf and seals to operate without binding.
- Any rise, hollow or ramp must be corrected before the door is commissioned.
- **Threshold plates, drop seals and floor finishes must match the fire/acoustic schedule.**
- **Do not** trim the bottom of the leaf to mask an uneven floor unless the evidence specifically allows it.

FD60S smoke-control check

Threshold gaps and seals must be as tested/assessed. Where a drop seal is used, adjust it to make continuous contact without preventing closure.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Unpack and verify doorset.

Check the set

- Door tag, label or project reference matches the schedule.
- Handing, swing, lock side and closer position are correct.
- Leaf, frame, seals and hardware are undamaged.
- All intumescent and acoustic seals are present and continuous.

Hold the installation if

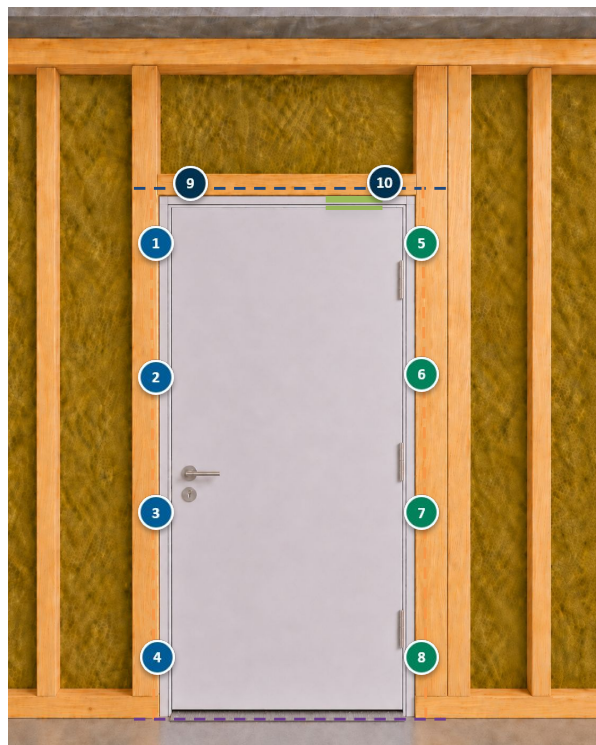
- The label or project reference does not match the schedule.
- The frame is twisted, dented or out of square on delivery.
- The leaf has been cut, drilled or damaged on site.
- The supplied seals or hardware are missing.
- There is uncertainty over wall type or fire strategy.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Fixings and package screws.

Recommended fixings for our Essentials doorset.

- **Factory-fitted transit or package screws in hinges and closers are for transport only.**
- Remove transit screws before final installation and replace them with the correct fixings (as recommended)
- Do not use plasterboard screws, undersized wood screws, mixed screw types or non-rated substitute anchors.
- Pilot drill where required to avoid splitting and to maintain the correct fixing line.
- Every hinge, closer bracket, strike and frame fixing point must be tight and seated correctly



Use recommended fixings

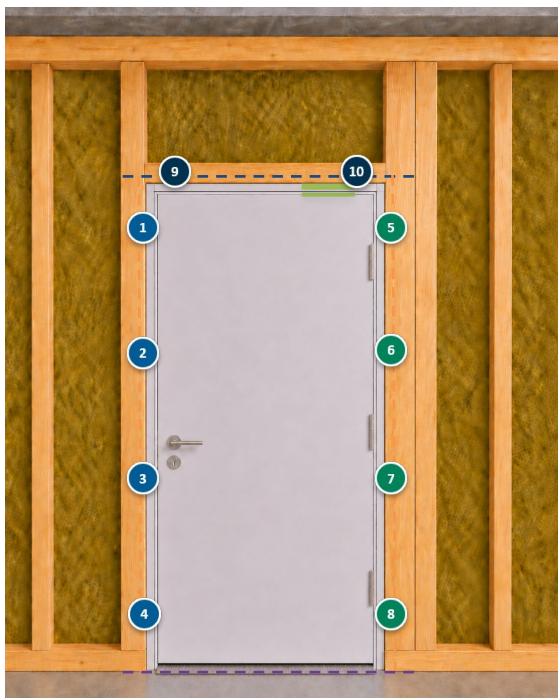
Recommended Fixing.

Item	Screw size / type	Qty
Hinge screws to door leaf	4.5mm x 50mm CSK steel screws	12 + 2 spare
Hinge screws to frame	4.5mm x 40mm CSK steel screws	12 + 2 spare
Integral closer screws	4.5mm x 50mm CSK steel screws	1 full closer fixing set + spares if supplied
Frame fixings to timber/CLS	6.0mm x 100mm frame screws	10 + 2 spare
Latch keep / strike plate screws	4.0mm or 4.5mm CSK steel screws	2 + 1 spare
Solid packers / shims	1 & 2mm thickness	30-40 pieces
Threshold plate screws	4.5mm x 70mm CSK steel screws (if threshold plate required)	4 + 2 spare

Note: Quantities are based on a standard single doorset with 3 hinges.

Failure risk: Incorrect screws can compromise the closer, hinge load capacity, fire evidence and acoustic alignment.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Alternate Frame Fixings.



Important: The timber/CLS frame fixing pack is supplied as standard unless otherwise specified. Alternative fixing packs for masonry, concrete, reinforced steel stud or lightweight block must be selected to suit the supporting wall construction. All frame fixings must pass through solid packers and into a suitable structural opening. Do not rely on foam, sealant or architrave to restrain the frame.

Substrate-Specific Frame Fixing Options

Wall / opening type	Frame fixing type	Typical size	Qty per doorset	Notes
Timber / CLS structural opening	Frame screws	6.0mm x 100mm	10 + 2 spare	Standard supplied fixing pack. Fix through solid packers into structural timber.
Masonry / brickwork	Masonry frame screws / concrete screws	7.5mm x 100/120mm	10 + 2 spare	Optional masonry fixing pack. Drill size and embedment to fixing manufacturer's instructions.
Concrete	Concrete screws or approved frame anchors	7.5mm x 100/120mm or M6/M8 anchor	10 + 2 spare	Optional concrete fixing pack. Anchor type to suit concrete strength and edge distances.
Reinforced steel stud	Self-drilling steel frame screws	5.5mm or 6.3mm x 70/90mm	10 + 2 spare	Only suitable where steel stud is reinforced or includes suitable backing. Do not fix heavy fire/acoustic doorsets into unsupported lightweight stud.
Lightweight / aerated block	Specialist lightweight block fixing or resin anchor	Project specific	Project specific	Not included as standard. Must be selected to suit block strength and manufacturer's evidence.

Note: Quantities are based on a standard single doorset with 3 hinges.

Failure risk: Incorrect screws can compromise the closer, hinge load capacity, fire evidence and acoustic alignment.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Guidance based on BS 8214:2016, Approved Document B and doorset manufacturer's test evidence.

Typical Fixing Layout

- 1 – 4 Lock side fixings
Top, intermediate and bottom fixings.
- 5 – 8 Hinge side fixings
Top, intermediate and bottom fixings.
- 9 – 10 Head side fixings
One fixing near each end.

Quantity

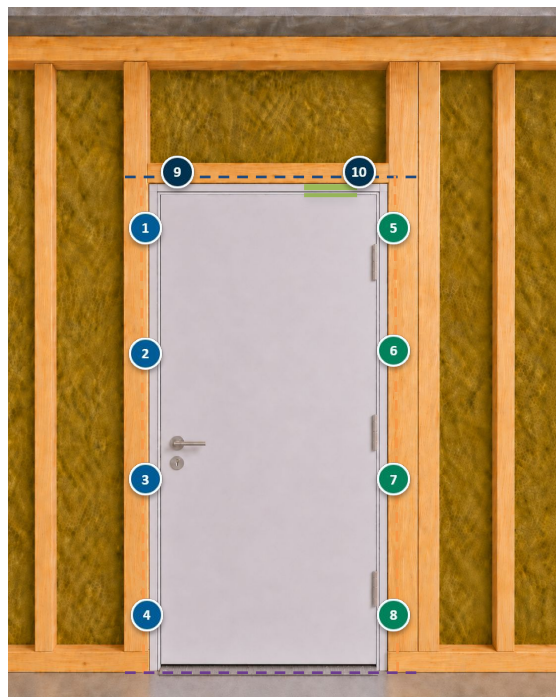
- 4 fixings to lock jamb.
- 4 fixings to hinge jamb.
- 2 fixings to head.

Screw Guidance

- Fix to structural timber.
- Minimum 4.5 dia' screws.
- Minimum 50mm screw length.
- Do not distort the frame.
- Frame to be plumb, level and square.

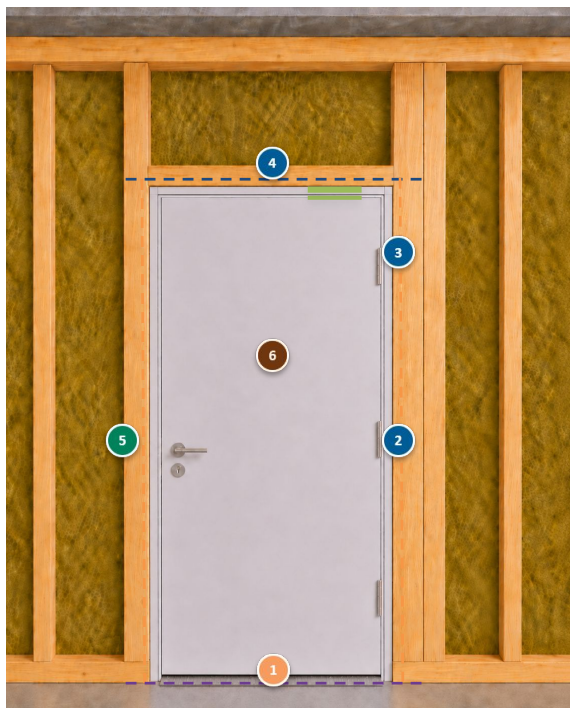
Installation Notes

- Confirm final fixing positions against the doorset fire/acoustic evidence
- Perimeter voids to be packed with suitable mineral fibre
- Fire/acoustic sealant to be applied to both faces where required
- Do not rely on expanding foam as the primary fire/acoustic seal
- Threshold and drop seal to be checked after final fixing



Supplied fixing pack only

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Recommended frame fixing sequence.



Supplied fixing pack only

Sequence

1. Position the doorset on the correct finished floor/threshold level.
2. Pack behind each hinge-side fixing point and apply a temporary central hinge-side fixing. Do not fully tighten.
3. Check the hinge jamb is plumb, then fix the hinge jamb top and bottom progressively.
4. Check the head is level and confirm equal diagonals before fixing the head.
5. Pack and fix the lock jamb progressively from top to bottom, checking gaps and latch alignment.
6. Gradually tighten all fixings and complete final checks before perimeter sealing.

Final Alignment Checks

Final checks before sealing:

- Jambs plumb and parallel
- Head level
- Equal diagonals
- Door gaps even
- Latch engages correctly
- Seals compress evenly
- Drop seal engages with threshold plate

Important: fixings must pass through solid packing into the structural opening. Do not rely on foam or sealant to restrain the frame.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Install / set the doorset frame.

STAGE 2

Install / set the doorset frame.



Range note

Rw Essentials is supplied pre-hung. Rw Timber frames are supplied as three separate mitred components – frame head, hinge jamb and lock jamb – with factory-routed Tenso P-14 connector slots. Assemble the frame before positioning it in the opening.

Position the frame / doorset at the correct finished floor or threshold level. Pack behind each fixing point and fix progressively without pulling the frame out of line. Check the head is level, jambs are plumb, diagonals are equal and the frame is not twisted before final tightening. Once aligned and secure, complete the specified fire and acoustic perimeter seal.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Plumb, level, square and in wind.

Head level

Check that the frame head is horizontal before final fixing.

1

Jambs plumb

Use a long level to confirm both jambs are upright and vertically true.

2

Equal diagonals

Measure corner to corner to confirm the frame is square. Both diagonal measurements should be equal.

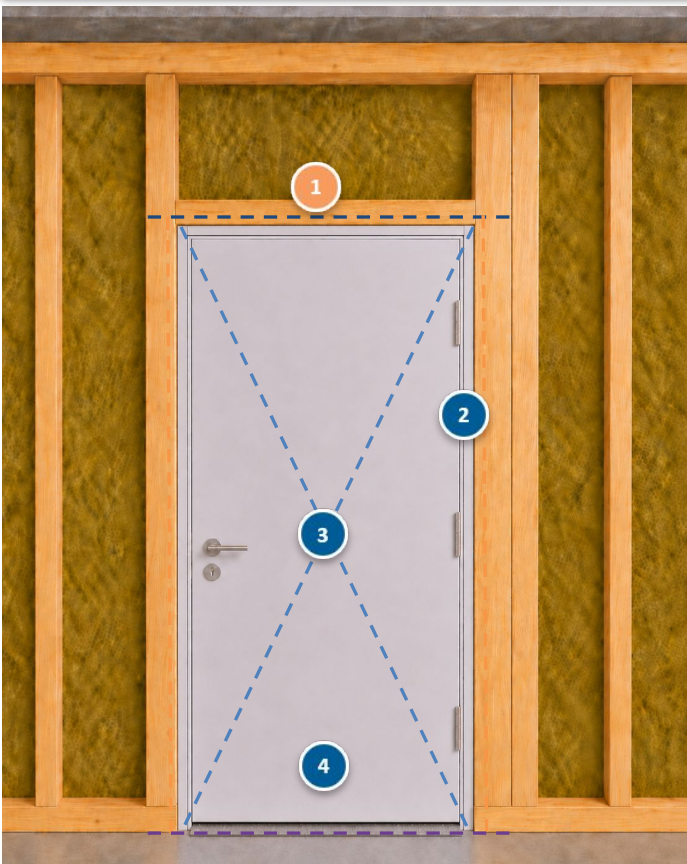
3

Not twisted / In wind

Sight through the frame to confirm both jambs sit in the same flat plane, with no front-to-back twist.

4

Alignment target

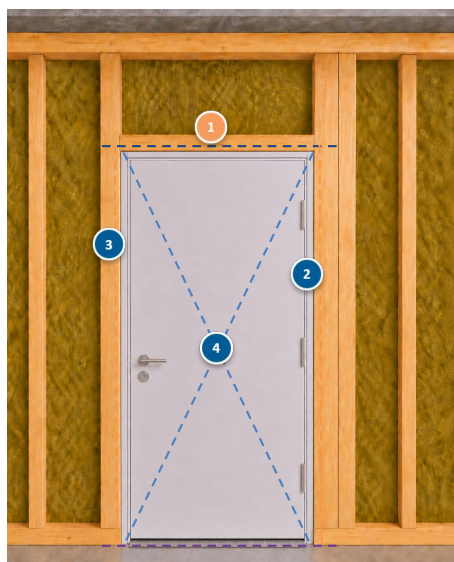


Tolerance target

Aim for 3mm uniform head and jamb gaps, with the frame plumb, level, square and not twisted within 1-2mm. Final tolerances must always follow the doorset manufacturer's fire/acoustic evidence. For fire doors, UK government fire door guidance states the gap around the top and sides should not exceed 4mm, except at the bottom where it should be as small as practicable.

- **Tolerance target: within 1-2mm** for head level and jamb plumb.
- **Tolerance target: diagonals equal within 2mm** for square.
- **Tolerance target: no visible twist, within 2mm front-to-back** for in wind.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Setting the frame into the opening.



Set-out sequence

1. Head level.
2. Hinge jamb plumb.
3. Lock jamb parallel.
4. Diagonals checked.
5. Fix progressively.

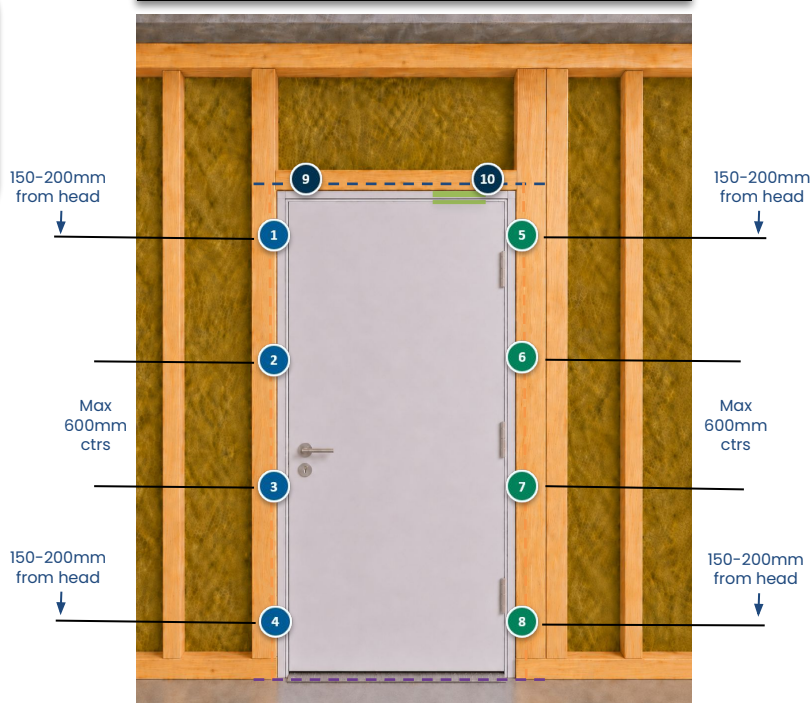
Installer actions

- Offer the pre-hung frame into the opening, do not force it.
- Set to the confirmed finished floor / threshold level.
- Use non-compressible packers at each fixing point.
- Maintain the designed perimeter void for fire-stopping and acoustic sealing.
- Check the leaf swing before final tightening.

Supply format

Essentials: offer the complete pre-hung assembly into the opening. Rw Timber: assemble or install only in the configuration shown on the project-specific schedule.

Typical fix point Layout



Site rule

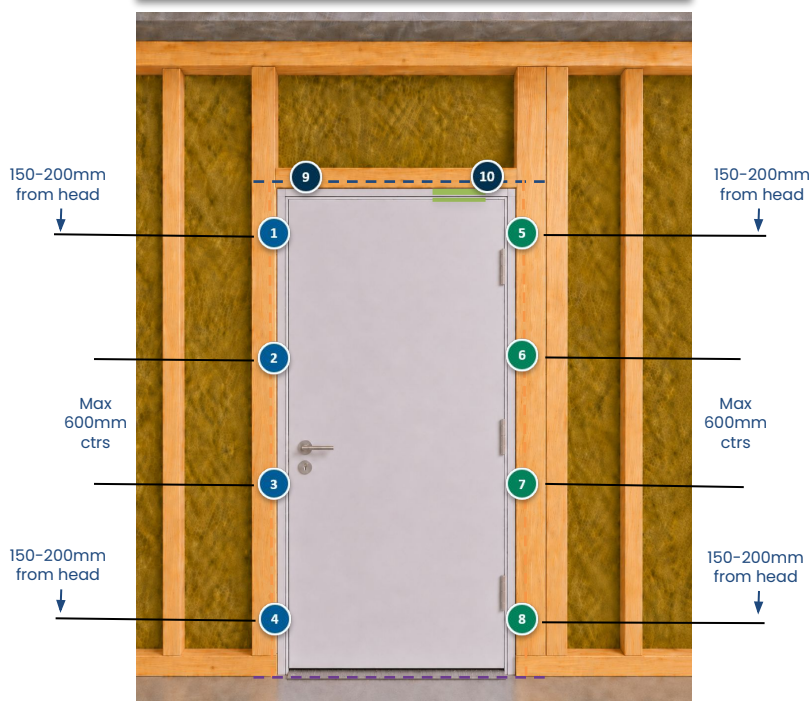
If the frame needs force to fit, correct the opening before installation. Do not plane, twist or pull the frame to compensate.

Fixings must pass through solid packers into a suitable structural opening.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Fixing points and solid packers.

Typical fix point Layout



10 frame fixings + 2 spare

Fixing sequence

1. Hinge jamb 5-8

Pack tight behind each fixing. Set top and bottom first, then centre points.

2. Head 9-10

Fix after confirming head level and equal diagonals.

3. Lock jamb 1-4

Pack and fix parallel to the hinge jamb. Check latch alignment as you go.

4. Final tighten

Tighten gradually, do not pull the frame out of line.

Defect avoidance

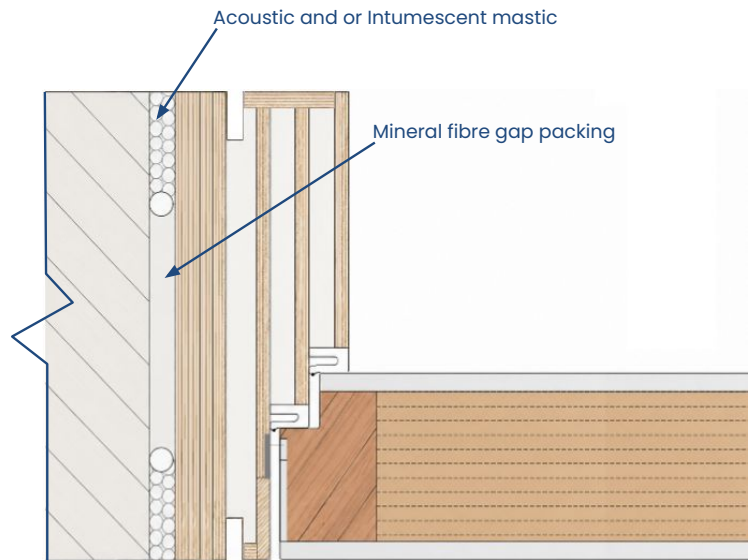
Packers must be fitted directly behind each frame fixing point and must remain in place after fixing. **Do not rely on foam alone to restrain the frame.** Screws should be tightened firmly but not overtightened. Excessive tightening can pull the frame out of line, distort the doorset and cause poor alignment, uneven gaps, latch issues or reduced seal contact.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Frame-to-wall and acoustic sealing.

Seal the perimeter

- Clean the void before installing backing material and sealant.
- Fill the approved gap continuously, with no open corners.
- Use the specified mineral fibre, fire foam, mastic or tested system.
- Seal both faces where required by the project detail.
- Do not rely on architraves for fire-stopping or acoustic sealing

Typical section



Acoustic warning

Even small air paths around the frame can noticeably reduce acoustic performance. For Rw45dB doorsets, the frame-to-wall junction must be treated as an airtight detail, with the perimeter gap fully packed and sealed in accordance with the specified installation method.

!! Perimeter voids must be packed and sealed before they are covered !!

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Packers and frame restraint.

Correct packer use

- Use non-compressible packers at every fixing point.
- Support hinge, closer and latch loads.
- Keep packers clear of seal grooves and ironmongery.
- Fire-stop around packers so the perimeter void remains continuous.

Common faults

- No packer behind hinge or closer loads.
- Over-tightened fixings pulling the frame out of line.
- Loose packers dropping out after fixing.
- Base of frame left unsupported.
- Unsealed packer voids hidden behind architraves.

Sign-off point

Before fitting architraves, confirm that all fixings are fully supported by firm, non-compressible packers, the frame is square, plumb and free from distortion, and the perimeter firestopping is continuous with no concealed gaps or voids. Use the recommended packing and perimeter sealing materials detailed in the below pages.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Frame Packing and Perimeter Firestopping.

The doorset frame must be mechanically fixed to the supporting wall construction in accordance with the SilentDoor installation instructions and the applicable doorset fire certification.

Frame packers

The frame must be securely packed behind every mechanical fixing position to:

- Prevent distortion of the frame.
- Maintain the correct frame dimensions and door clearances.
- Provide solid support between the frame and supporting construction.
- Prevent movement when the frame fixings are tightened.

Recommended packing materials include

Packers must be appropriately sized to provide firm support behind each fixing position and must not project beyond the face of the frame

- Blue60 Fire Rated Packers.
- Blue60 Timberex Wedges, when used as part of the complete Blue60 system.
- Solid hardwood packers.
- Hardwood plywood packers.
- Suitable non-combustible packers approved by SilentDoor.

General-purpose plastic packers, plasterboard pieces, MDF offcuts, soft or compressible materials and other unapproved packing materials should NOT be used.

Frame-to-Wall Perimeter Gap

The perimeter gap between the doorset frame and the supporting wall must be continuous, accessible for fire-stopping and within the maximum dimensions permitted by the applicable doorset fire certification.

The perimeter gap must be completely filled, with no unsealed voids, using one of the following SilentDoor-approved systems.

Option 1 – Mineral Fibre and Intumescent Acoustic Sealant

Tightly pack the full depth of the perimeter gap with non-combustible stone wool or mineral fibre. Seal continuously to both faces of the frame using:

EVERBUILD® EVERFLEX® AC95 Intumescent Acoustic Sealant

The sealant must be applied continuously between the frame and supporting construction to the depth and width required by the product data sheet.

The mineral fibre must be tightly packed but must not be compressed to the extent that the frame is distorted.

Option 2 – Soudal Fire-Resistant Acoustic Foam

The perimeter gap may be filled using:

Soudal Soudafoam FR HY Fire-Resistant Acoustic Foam

The foam must be applied continuously through the required depth of the perimeter gap, with no voids or breaks in the installation.

Surfaces must be prepared and the foam installed strictly in accordance with the current Soudal product data sheet. The supporting surfaces must be lightly moistened where required by the product manufacturer.

The foam must be allowed to cure fully before excess material is trimmed. Cured foam must be protected from exposure and covered by the specified architrave or wall finish where required.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Frame Packing and Perimeter Firestopping.

Option 3 – Blue60 Fire-Rated Frame Foam System

Where the Blue60 system is specified, the complete proprietary system must be used, comprising:

- Blue60 Fire Rated Frame Foam.
- Blue60 Fire Rated Packers or Blue60 Timberex Wedges.

The Blue60 products must be installed as a complete system and in accordance with the current Blue60 installation instructions and technical data sheets.

Blue60 packers and wedges must not be mixed with alternative foam products unless the proposed combination has been approved in writing by SilentDoor.

Mechanical Fixing Requirement

Fire-resistant foam, mineral fibre and sealant must not be relied upon as the sole means of fixing or restraining the doorset frame.

The frame must always be mechanically fixed through the packing positions into suitable structural timber studs, steel studs, masonry or other approved supporting construction.

Where the doorset is installed into a metal stud partition, suitable timber or steel reinforcement must be provided within the partition at all frame fixing positions.

Unapproved Materials

The following materials must not be used:

- Ordinary expanding polyurethane foam.
- General-purpose acoustic foam.
- General-purpose silicone or decorators caulk.
- Plasterboard adhesive used without an approved fire-stopping system.
- Loose or inadequately packed mineral fibre.
- General-purpose plastic packers.
- MDF, plasterboard or other compressible offcuts.
- Any product not approved within the SilentDoor installation instructions.

Completion and Inspection

Before fitting architraves or closing the surrounding wall construction, the installer must confirm that:

- All frame fixing positions are securely packed.
- All mechanical fixings are fully installed and tightened.
- The frame is square, plumb and free from distortion.
- The perimeter gap is completely filled.
- The fire-stopping material is continuous around both jambs and the frame head.
- There are no visible gaps, voids or breaks in the perimeter seal.
- The installed system complies with the current SilentDoor installation instructions.

The completed installation must maintain the specified fire resistance and, where applicable, the acoustic and smoke-control performance of the doorset and supporting wall construction.

Equivalent products must not be substituted without prior written approval from SilentDoor.

Sign-off point

The frame must be restrained by fixings into structure, not by foam, sealant or architraves.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Leaf, hardware and seals.

STAGE 3

Leaf, hardware and seals



Once the doorset is fully fixed and sealed, check that all moving parts operate smoothly and without obstruction. Open and close the door several times to confirm that the leaf swings freely, the hinges are secure, the latch engages correctly and the handle returns properly.

Check that the acoustic, smoke and intumescent seals are correctly seated and make consistent contact where required. Adjust the drop seal so that it **engages evenly with the threshold plate** when the door closes, without excessive compression or drag.

Confirm that the integral closer returns the door from the open position to the fully closed and latched position. The door must close smoothly, without slamming, binding or stopping short. Any adjustments should be made before the installation is signed off.

Range note

Closer, hinge and drop-seal types may vary on Rw Timber doorsets. Where Simonswerk Tectus TE 540 3D hinges or a Swiss Planet automatic drop seal are specified, use the dedicated Rw Timber adjustment guidance and video links.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Leaf operation and hinge checks.



Check before sign-off

- Leaf swings freely without rubbing the frame, floor, seals or wall.
- Hinges are tight, aligned and fixed with the specified screws.
- Hinge knuckles are clean and not forced out of line.
- No cardboard, timber slivers or unapproved packing behind hinge leaves.
- If gaps move while tightening, release and correct the frame.

Matched doorset principle

Each SilentDoor timber doorset is a matched system. The leaf, frame, seals, hinges, closer and specified ironmongery must work together in the approved configuration. Do not trim, re-machine, drill additional fixing holes or substitute hardware unless confirmed in writing by SilentDoor. Install the doorset as supplied and in accordance with the project-specific evidence.

Swing free

Hinges seated

Correct screws

No binding

No site trimming

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Intumescent, smoke and acoustic seals.

Area	Requirement
Head and jambs	Seals must be continuous, undamaged and fully seated in the correct groove.
Corners	No cuts, gaps, crushed sections or missing seal returns. Corners must remain continuous.
Threshold / drop seal	Adjust the drop seal to contact a suitable continuous hard threshold evenly, without lifting the leaf or preventing latch engagement. Carpet is not suitable as the drop seal contact surface.
Ironmongery cut-outs	Fit the required intumescent kits or pads behind hinges, lockcases, keeps and closers.
Decoration	Do not paint over smoke/acoustic fins, compression seals or moving drop seal components.

Seal continuity

Fire, smoke and acoustic performance all rely on uninterrupted seal contact around the doorset.

Record

Photograph any damaged, missing or altered seals before handover.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Closer, latch and strike commissioning.

Closer setup

- Fit the closer, arm and any required intumescent packers exactly as specified in the doorset and closer manufacturer's instructions.
- Do not omit, alter or substitute closer fixings, packers or protection materials.
- Adjust the closing speed, latching speed and backcheck after the doorset has been installed and final floor finishes are complete.
- The door must self-close fully and latch correctly from 5°, 30°, 90° and full opening travel.
- Check that the leaf does not bind on the frame, floor, seals or threshold plate during operation.
- Avoid excessive slam or closing force that could damage the frame, latch keep, seals, hinges or closer.

Latch and strike

- Check that the latch bolt engages positively into the keep without needing to lift, pull or push the door leaf by hand.
- The latch keep / strike plate must sit flush within the frame recess and be fixed using the specified screws.
- Do not file, enlarge or alter the keep to compensate for a misaligned frame or incorrect latch position.
- When latched, the acoustic and smoke seals should be compressed evenly, but not crushed or over-compressed.
- If the latch does not engage correctly, check frame alignment, door gaps and seal compression before making any adjustment.

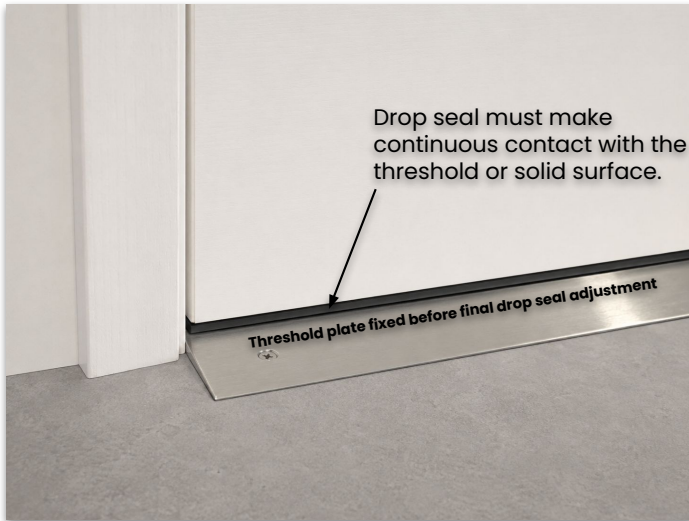
Pass test

- The door must self-close fully and latch from the required opening positions.
- The latch bolt must engage positively without lifting, pulling or pushing the leaf by hand.
- The designed head and jamb gaps must remain even after latching.
- Acoustic and smoke seals must make consistent contact, without being crushed or preventing the door from closing.
- The pass condition is achieved when the door closes, latches and maintains the designed gaps and seal contact.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Threshold and drop seal adjustment.

Threshold and drop seal set-up



Adjustment sequence

1. Set the threshold plate before final drop seal adjustment.
2. Adjust the drop seal to make full-length contact when closed.
3. Avoid over-compression, it can stop the door latching.
4. Re-check after carpets, mats and transition strips are installed.
5. Record threshold gap and drop seal operation.

Acoustic threshold detail

The threshold is a critical acoustic weak point. The drop seal must close evenly onto a suitable continuous hard threshold, leaving no visible gap beneath the door. Carpet is not suitable as the drop seal contact surface.

Rw Timber — Swiss Planet drop seal

Where specified, use the dedicated 3mm Allen-key adjustment procedure and video in the Rw Timber specialist guidance section. The seal must finish on a suitable continuous hard threshold, not carpet.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Final checks and handover.

STAGE 4

Final checks and handover



Before handover, complete a final inspection of the installed doorset and record the results. Check that the door operates correctly, self-closes and latches reliably, and maintains the specified gaps and seal contact. Photograph the completed installation, including the frame, threshold, seals, hinges, closer and any areas of concern. Issue the completed handover record to confirm that the doorset has been installed, tested and commissioned in accordance with the project requirements.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Final gap measurement.

Check point	Requirement	Tick
Head gap	Measure in at least two positions. Target 2-4mm unless evidence states otherwise.	☐
Hinge jamb	Measure top, middle and bottom. Gap must remain even.	☐
Lock jamb	Measure top, middle and bottom. Leaf must not bind on latch side.	☐
Threshold	Measure at latch, centre and hinge side to suit the smoke/acoustic detail.	☐
Seal contact	Confirm full perimeter and threshold seal contact when latched.	☐
Door stop	Leaf closes against stops without bounce or obstruction.	☐

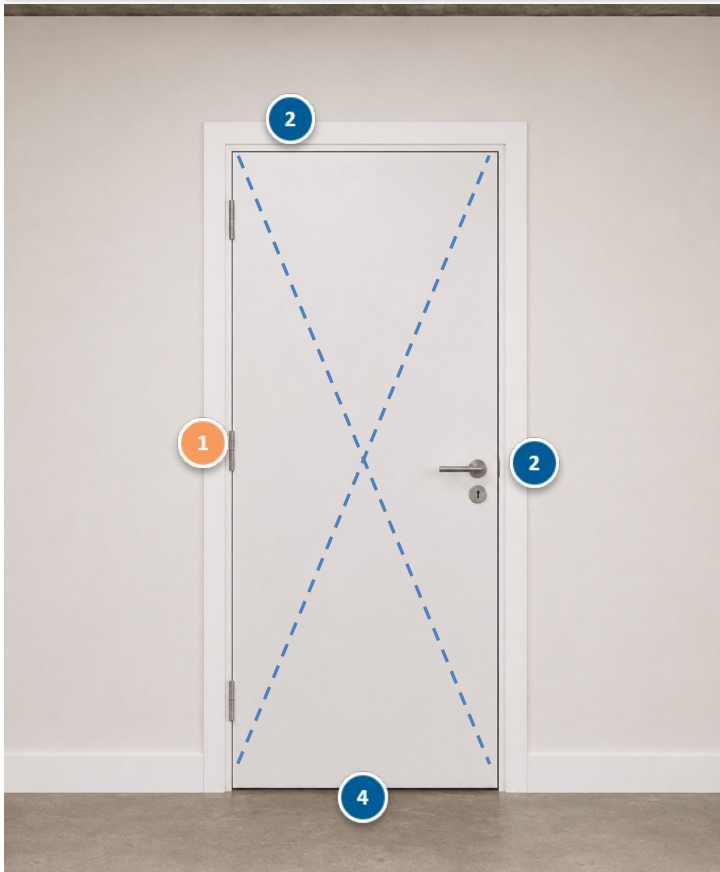
Record it (if applicable)

Photograph measured gaps and threshold seal contact for the O&M file before cover-up.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Final operational test.

Final alignment checks



Pass criterion

The door self-closes and latches while maintaining the required gaps and seal contact.

Swing

Leaf opens freely to the required angle without binding.

1

Close

Closer shuts the door from multiple positions.

2

Latch

Latch engages positively without assistance.

3

Seal

Perimeter and threshold seals make full contact.

4

Inspect

No visible damage, missing fixings or unsealed voids.

5

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Defect avoidance.

Do not do this...

Wedge or prop open

Damages hinges/closer and leaves fire compartment unprotected.

Trim or plane leaf

May remove fire lippings, seals or acoustic mass. Seek written approval first.

Substitute hardware

Unapproved hinges, closers, latches or seals can invalidate evidence.

Leave perimeter voids

Open voids create fire and sound leakage paths around the frame.

Over-tighten fixings

Can twist the frame and cause latch, gap and seal failure.

Paint over seals

Can stop smoke/acoustic fins and drop seals working correctly.

Site rule

Protect the doorset as a life-safety product, not as a normal internal door.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Troubleshooting guide.

Symptom	Likely cause and action
Leaf rubs frame	Likely frame twist, over-tightened fixing, high floor spot or hinge misalignment. Re-check plumb, level and in wind.
Will not latch	Likely strike misalignment, closer setting or seal over-compression. Adjust frame, strike and closer.
Gap too large	Likely out-of-square opening, loose fixing or leaf sag. Re-set the frame, do not mask it with wider seals.
Drop seal drags	Likely uneven threshold, over-adjusted seal or changed floor finish. Re-level threshold or reset seal.
Poor acoustic result	Likely open perimeter void, threshold leakage, unsealed services or flanking path. Inspect and seal all junctions.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Handover pack.

Issue to client / main contractor

- Door schedule and SilentDoor reference for each opening.
- Fire evidence and assessment details supplied for the project.
- Acoustic evidence for the relevant configuration.
- Ironmongery data sheets and closer instructions.
- Final gap, closer, latch and seal sign-off sheet.
- Photographs before cover-up.

Maintenance advise

- Inspect fire doors regularly in accordance with the building fire risk assessment.
- Keep seals clean, intact and free from paint or debris.
- Do not alter hardware, cut the leaf or add accessories without approval.
- Check closer action after floor finish changes.
- Report damage immediately at hinges, threshold and frame joints.

O&M file (if applicable)

Keep project evidence, photos and sign-off records together for future inspection.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Installation sign-off checklist.

Evidence	Door reference, fire rating and acoustic rating checked against schedule.	☐
Opening	Wall type, reveal, floor and structure confirmed suitable.	☐
Frame	Plumb, level, square, in wind and fixed with approved fixings.	☐
Perimeter	Frame-to-wall void filled and sealed continuously to approved detail.	☐
Hardware	Hinges, latch, closer, strike and accessories fixed with approved fixings.	☐
Seals	Seals fitted, undamaged and correctly aligned. Drop seals must close onto a hard threshold, not carpet.	☐
Gaps	Head, jamb and threshold gaps measured and recorded.	☐
Operation	Door self-closes, latches and seals from multiple positions.	☐
Handover	Photos, evidence and maintenance guidance issued.	☐

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Maintenance, records and controlled changes.

STAGE 5

Maintenance, records and controlled changes.



If applicable, Keep the evidence trail complete after installation by recording the final condition of the doorset before handover. Photograph the installed leaf, frame, seals, hinges, closer, latch/keep, threshold, drop seal and any fire/acoustic sealing details.

Retain the completed checklist, fixing record, photographs and any relevant product documentation with the project handover file. This provides a clear record that the doorset was installed, tested and commissioned in accordance with the SilentDoor installation instructions and project requirements.

SilentDoor Rw® Essential Series Installation Guide.

Maintenance and inspection.

Routine checks

- Inspect in line with the building fire risk assessment.
- Check closer action, latch engagement and seal condition.
- Confirm threshold/drop seal still makes full contact.
- Repair damaged architraves, seals or frame finishes promptly.
- Record defects and remedial action.

Project performance

- Do not paint over seals.
- Do not wedge the door open.
- Do not drill, cut or add accessories without approval.
- Keep firestopping and acoustic seals protected during later works.

Inspection focus

Hinges, closer, latch, seals, gaps and threshold condition are the key recurring checks.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

First-month re-check.

Why re-check

- New floor finishes, decoration, building movement and closer bedding-in can alter gaps or seal contact.
- Early correction prevents minor movement becoming a performance defect.

Check again

- Open, close and latch from 5°, 30°, 90° and full travel.
- Check seal contact around the perimeter.
- Re-check threshold/drop seal contact.
- Photograph and record any adjustments and retained settings

Good practice

Schedule a first-month review where high-use doors or new floor finishes may affect operation.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Replacement parts and approvals.

Controlled parts

- Hinges, closers, latch/lock, strike, seals, drop seal, threshold and fixings must match the approved schedule or written SilentDoor approval.

Do not substitute

- No different hinge type or grade.
- No unapproved closer or latch set.
- No wider seals used to hide poor gaps.
- No alternative threshold or drop seal type.
- No mixed or undersized fixing pack.

Unapproved changes can affect fire, smoke and acoustic evidence.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Photo record for O&M file (if applicable).

Opening

Structural opening before the frame is installed. ☐

Packers

Frame fixing and packed locations before cover-up. ☐

Perimeter

Frame-to-wall backing and sealant before architraves. ☐

Threshold

Threshold plate and drop seal contact on to solid surface. ☐

Hardware

Hinges, closer, strike and screws before fitting covers. ☐

Final gaps

Head, jamb and threshold gap measurements. ☐

Why photographs matter

Photos document concealed details and protect the installation record before architraves, trims and decoration cover up the work.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Completion declaration (if applicable).

Installer	Name, company, date and signature recorded.	☐
Door reference	Door tag / opening reference matched to the schedule.	☐
Evidence	Project-specific fire and acoustic requirements checked.	☐
Work complete	Fixing, sealing, hardware, gaps and operation completed.	☐
Exceptions	Any defects, omissions or outstanding works recorded.	☐
Client handover	O&M photos, sign-off sheet and maintenance advice issued.	☐
Final status	Door accepted, door under review, or remedial works required.	☐
Record kept	Signed copy retained by installer and issued to client.	☐



APPENDIX

SilentDoor Rw Timber

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Rw Timber bespoke range - project-specific preparation.

Rw Timber project rule

The bespoke doorset schedule, approved drawings, fire / acoustic evidence and supplied ironmongery set take precedence over standard details.

Opening & support

- Confirm the structural opening, wall type and any required subframe / reinforcement before installation.
- The supporting construction must be plumb, square, dry and capable of taking the specified fixings.
- Do not rely on plasterboard edges or decorative linings to carry the doorset load.

Supply & handing

- Confirm door reference, handing, swing, finish, glazing and hardware against the project schedule.
- Confirm the three frame components are present: head, hinge jamb and lock jamb.
- Confirm the specified Tenso P-14 connectors / supplied corner-joint components are present before assembly.
- Keep all components protected and matched to the correct opening.

Gaps & machining

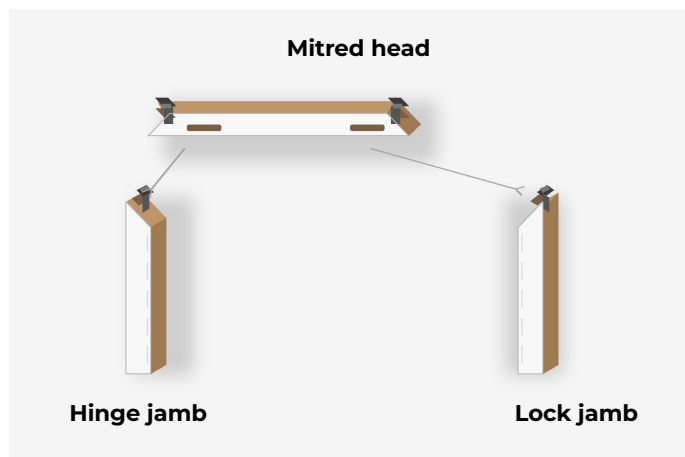
- Use the project-specific approved gaps and tolerances, do not apply a generic clearance where evidence states otherwise.
- Do not cut, plane, drill or add hardware to a fire / acoustic leaf unless the approved evidence specifically permits it.
- Where concealed closers or hinges are supplied, complete final adjustment only after the frame is correctly fixed and aligned.

Finishes

Where the doorset is supplied factory-finished or with specialist veneers / glazing, protect visible surfaces and follow the project finishing instructions. Do not paint over seals or moving components.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Rw Timber mitred frame assembly - Tenso P-14 clips.

Rw Timber frames are supplied as three separate frame components: frame head, hinge jamb and lock jamb. All top corners are 45° mitred and factory-routed for the Tenso P-14 connector system. Assemble the frame on a clean, protected surface before positioning it in the opening.



Tenso P-14 assembly sequence

- Check the door reference, handing and orientation before assembly.
- Lay out the head, hinge jamb and lock jamb with rebates and seal grooves facing the correct way.
- Check the routed connector slots are clean, undamaged and free from debris.
- Insert / engage the Tenso P-14 clips as supplied; do not substitute connectors.
- Bring the mitred joints together squarely until they close fully.
- Check the frame is square, diagonals are equal and seal grooves are continuous before fixing.



[Watch Tenso P-14 assembly video](#)

Assembly check

Do not force a joint closed. If a mitre does not pull tight, stop and check orientation, slot alignment, connector engagement and any specified adhesive detail before continuing.

Before the assembled frame is fixed into the opening, both mitred corners must be fully closed and supported. Do not trim, screw through or alter the mitred joint unless this is specifically approved for the project.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Rw Timber - Swiss Planet automatic drop seal adjustment.

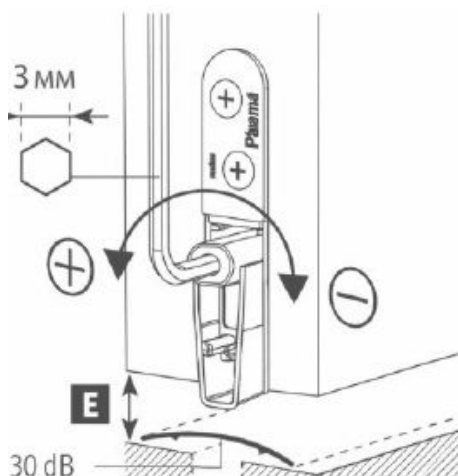
Where a Swiss Planet automatic drop seal is specified, make the final adjustment only after the doorset is fixed, aligned and the finished hard threshold level is confirmed.

Video Link for Drop Seal



[Watch Swiss Planet adjustment video](#)

Drop Seal Adjustment



Adjustment sequence

- Confirm the threshold plate or other approved continuous hard contact surface is complete and clean.
- Use a 3mm Allen key at the Planet actuator / adjustment point and make small incremental adjustments.
- Adjust until the silicone lip makes continuous full-length contact when the door closes.
- Do not over-compress the seal. The leaf must still self-close and latch without lifting, dragging or excessive resistance.
- Re-check the seal at the hinge side, centre and latch side after final floor finishes and commissioning.
- Carpet is not suitable as the drop-seal contact surface.

Site protection

If building works are still ongoing, keep the automatic drop seal fully retracted where practicable to prevent accidental damage. Complete the final adjustment at commissioning.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Rw Timber - Simonswerk Tectus concealed hinge adjustment.

Where Simonswerk Tectus TE 540 3D concealed hinges are specified, use the three-dimensional adjustment only after the frame has been fixed plumb, level, square and in wind.

Video Link for Drop Seal



[Watch Tectus hinge adjustment video](#)

Adjustment principles

- Adjust height, side position and compression in small, controlled increments.
- Do not use hinge adjustment to compensate for a twisted frame, poor packing or incorrect structural fixing.
- Maintain even head and jamb gaps and consistent acoustic / smoke seal compression.
- Re-check latch engagement and closer action after every significant adjustment.
- Tighten all adjustment / locking points in accordance with the hinge manufacturer's instructions before sign-off.

Important

The project ironmongery schedule takes precedence. Tectus TE 540 3D guidance applies only where that hinge is actually supplied. Do not substitute hinge type, grade, fixings or intumescent protection.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Rw Timber - painter guidance for primed glazed doorsets.

Issue this page to the decorator where a primed Rw Timber acoustic / fire-rated glazed doorset is to receive a site-applied finish. The aim is to prevent paint ingress at the glazing bead / glass junction.

Do not

- Flood the glazing edge with paint or allow paint to pool at bead / glass junctions or mitres.
- Introduce mastic or silicone at the glazing line unless approved in writing.
- Remove glazing beads, glass or disturb intumescent / acoustic components.
- Paint over smoke / acoustic seals or moving drop-seal components.

Preparation & application

- Clean and de_dust the beads and glass edge; confirm the primer is sound.
- Mask the glass with low-tack tape approximately 0.5–1.0mm back from the bead / glass junction.
- Lightly denib the primed bead and remove dust before coating.
- Use a fine sash / artist's brush at the glazing edge and keep the paint film thin.
- Apply two or three light coats rather than one heavy coat; avoid pooling at mitres.
- Before removing masking tape, lightly score the paint edge once touch-dry to avoid tear-out.

Colour contrast advisory

Where a dark finish contrasts with the white primer, the inner return of the opposite glazing bead may remain faintly visible through thicker glass. For a fully uniform sightline, specify factory / supplied pre-painted beads to match the final finish.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide.

Rw Timber - initial operation and bedding-in of seals.

New acoustic, smoke and intumescent sealing systems can make a correctly installed high-performance doorset feel firmer during the initial period of use. This is not, by itself, evidence of a defect.

What to expect

- The door may initially require more force to open and close than it will after a period of normal use.
- Resistance can be most noticeable during the final closing movement or at the latch point.
- With normal operation, compression seals will generally bed in and the action should become more consistent.

Do not

- Trim, remove or damage seals to reduce resistance.
- Alter hinges, latch or closer beyond approved adjustment limits.
- Repeatedly slam the door, force it aggressively or wedge it open to accelerate bedding-in.

Checks before raising a defect

- Confirm the frame is plumb, level, square and not twisted.
- Check leaf-to-frame gaps, latch alignment and closer settings.
- Confirm seals are correctly seated and free from paint, damage or contamination.
- Confirm the threshold / drop seal is correctly adjusted and not over-compressed.

Firmer initial operation is often a normal consequence of new seals and tight perimeter compression – both contribute to the required acoustic, smoke and fire performance.

SilentDoor Timber Acoustic & Fire Doorset Installation Guide. Optional automated access - Rw Timber projects.

Automated door operators

Include these pages only where automated access is specified on the project. The operator manufacturer's current product manual and project-specific electrical / access-control design must be followed.

Before installation

- Confirm operator type: surface-mounted or concealed.
- Check opening width, handing, closer / operator interface and support requirements.
- Coordinate access control, electric locking, safety sensors and power supply.
- Do not machine or alter the doorset beyond approved preparation.

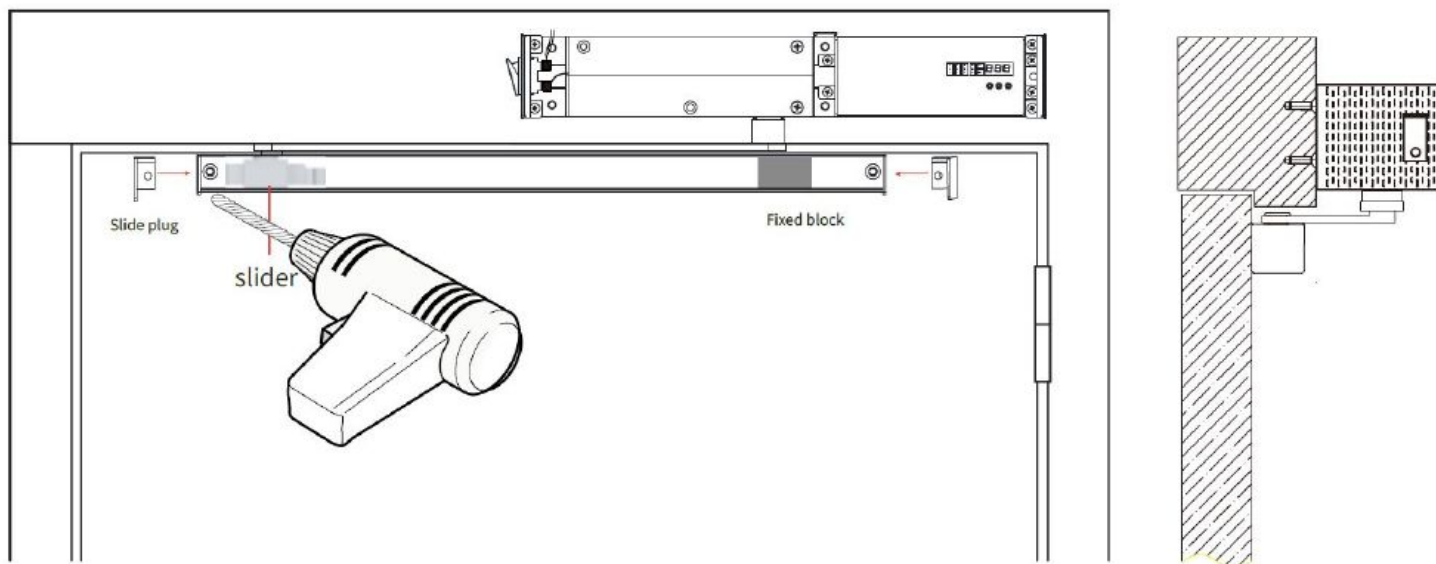
Important

The following operator pages are retained from the bespoke Timber guide as a project appendix, they do not apply to every SilentDoor doorset.

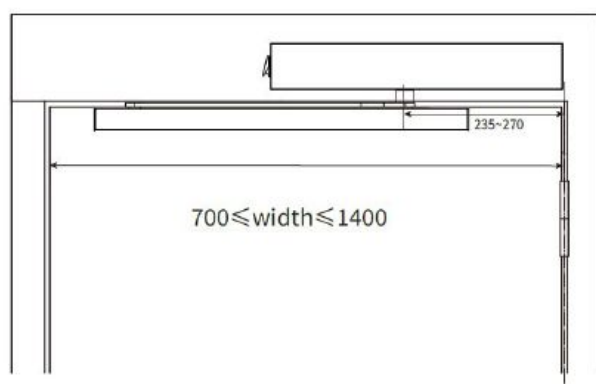
High performance, versatile, automated access.

Installation method for surface-mounted door operator

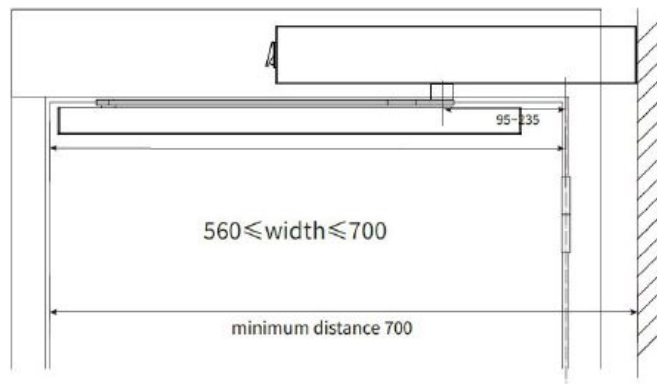
(please refer to the product manual for detailed installation dimensions and step-by-step instructions).



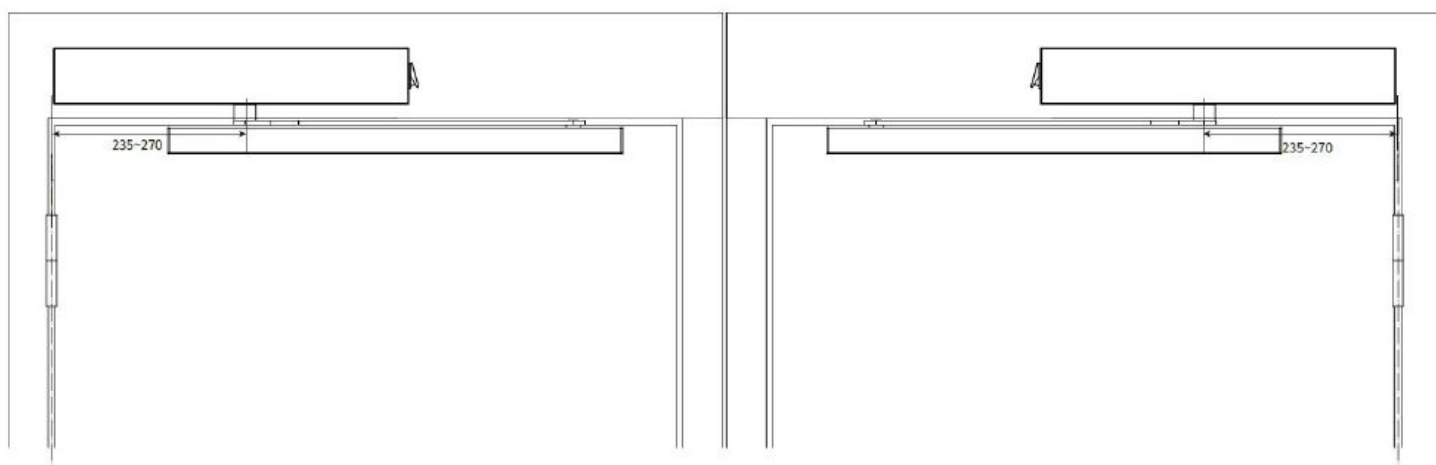
When the door width exceeds 700mm



When the door width is less than 700mm



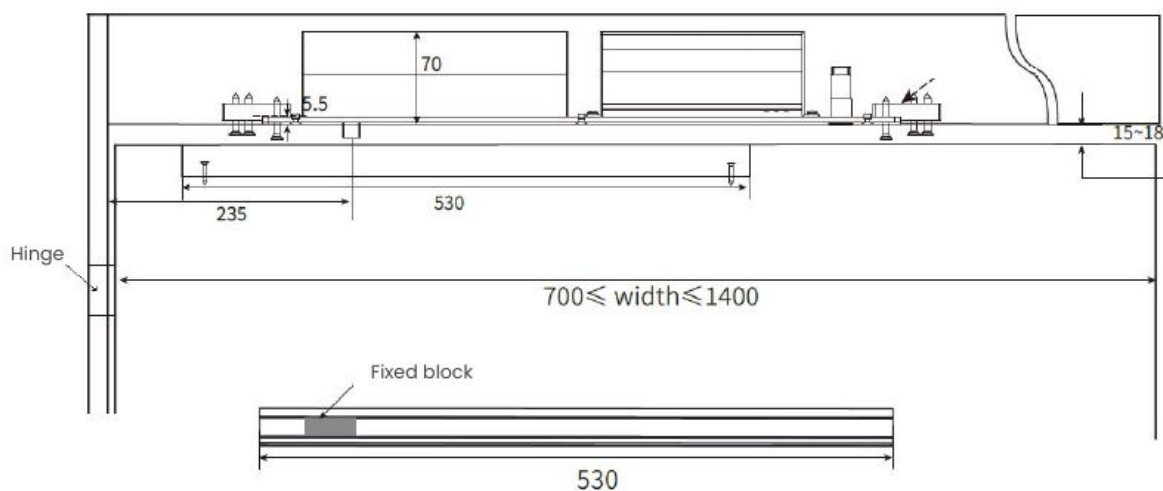
Surface mounted double door.



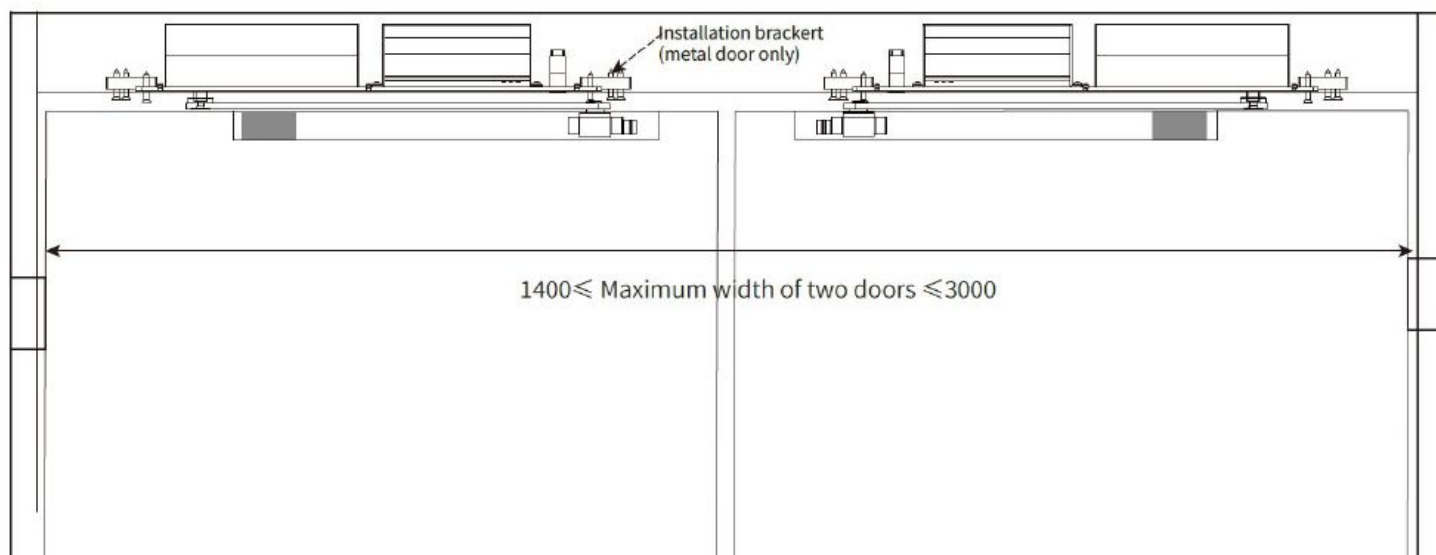
High performance, versatile, automated access.

Installation method for a concealed door operator

(please refer to the product manual for detailed installation dimensions and step-by-step instructions).



Note: Ensure that the support arm does not obstruct the door's movement during opening or closing.



External Equipment Overview

The external interface adopts a relay (dry contact) signal, enabling straightforward integration with access control systems, safety sensors, alarms, and other external equipment.



Access control systems



Electric locks



Microwave induction sensors



Contact-free inductive switches



Anti-collision sensors

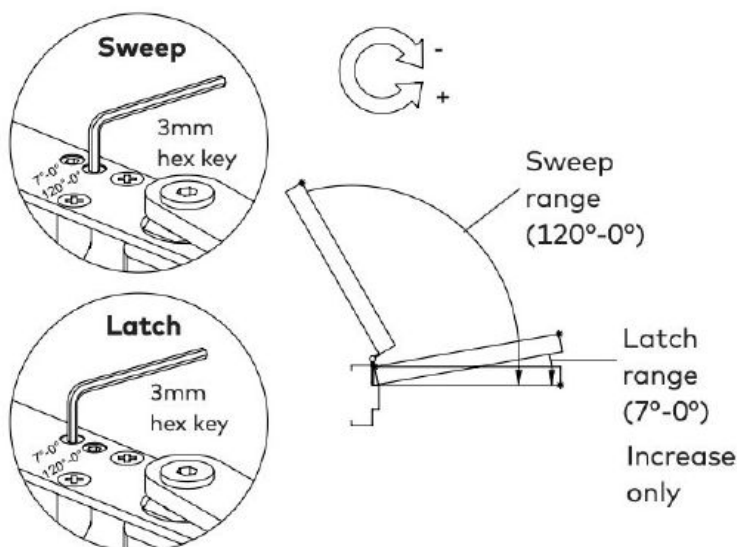


Camera sensors

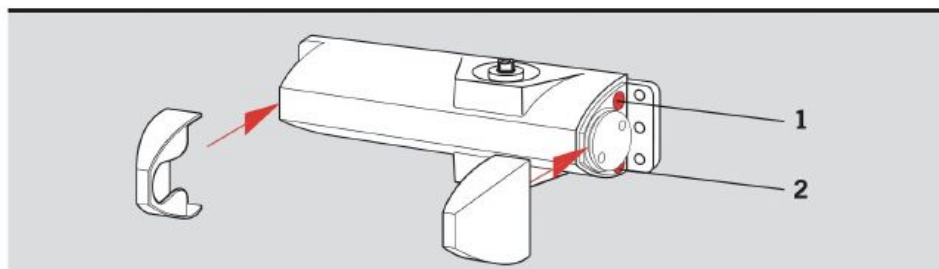
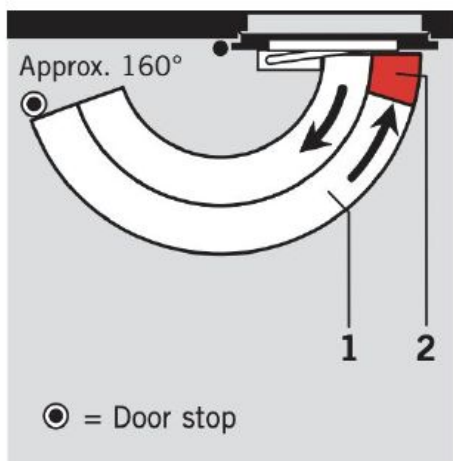
High performance, versatile, automated access.

Adjustments of Dorma Concealed Closer ITS96

CAUTION:
DO NOT REMOVE VALVES



Adjustments of Dorma Exposed Closer TS90



Then, you need to configure the two different speed valves: one that indicates 120°-0° (closing speed) and the other one that indicates 7°-0° (latching speed), you must use a number 3 hex key.

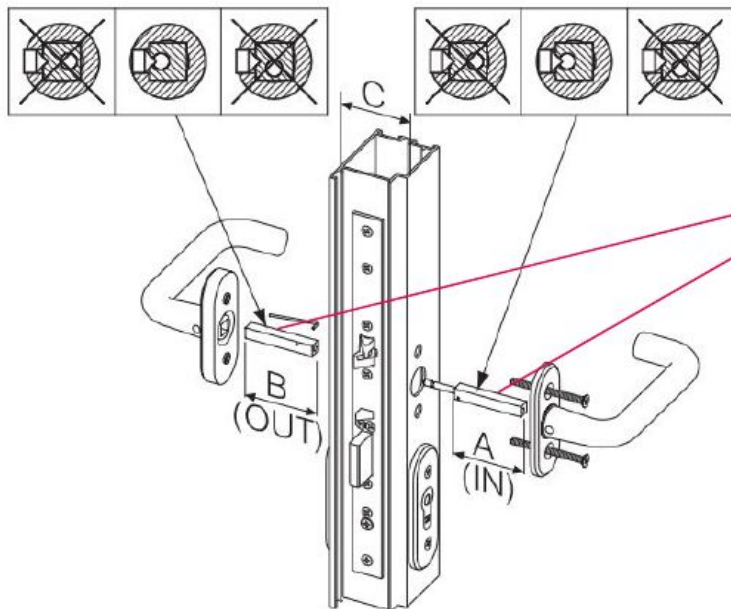
The easiest way to proceed is by turning both valves clockwise until the end (**Again, be careful not to force them**). This way the speed will be set up to zero in both valves; this means that at this point we will have the closer with maximum power but no speed, so the door should remain stationary.

From here, you should turn anti-clockwise the 120-0 valve to gradually increase the closing speed, until you reach the desired speed.

It is important not to force the valve once you reach the limit.

- 1 Infinitely variable closing speed in the range 160° – 15°
- 2 Infinitely variable closing speed in the range 15° – 0°

Assa Abloy 560



EA288 (Split Spindle)

C	A(IN)	B(OUT)	□	
40 - 54 mm	47 mm	50 mm	8 mm	EA288 001000
47 - 66 mm	57 mm	50 mm	8 mm	EA288 002000
61 - 80 mm	67 mm	60 mm	8 mm	EA288 003000
66 - 80 mm	74 mm	50 mm	8 mm	EA288 004000
88 mm -	120 mm	120 mm	8 mm	EA288 005000
70 - 87 mm	90 mm	50 mm	8 mm	EA288 006000
86 - 95 mm	74 mm	74 mm	8 mm	EA288 007000
C	A(IN)	B(OUT)	□	
40 - 54 mm	47 mm	50 mm	9 mm	EA289 001000
47 - 66 mm	57 mm	50 mm	9 mm	EA289 002000
61 - 80 mm	67 mm	60 mm	9 mm	EA289 003000
66 - 80 mm	74 mm	50 mm	9 mm	EA289 004000

Specification

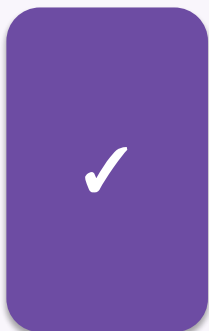
Operating voltage	
+15%, -10%	12 - 24VDC stabilized
Current	
12VDC	450 mA max.
24VDC	650 mA max.
Operating temperature range (°C)	-20°C to +60°C
Backset (mm)	
Standard	65
Special	55 and 60
Forend (mm)	
Standard	24
Special	20
Follower	9
Forend finish	stainless steel

Accessories

Cylinder Single	CY303
	CY313
	CY307
	CY317
Strike	EA322
Handles	60-0319-SSS
	60-0419-SSS
Cable (included)	EA218
Rebate sets (optional)	Reb 21, 22 or 23
Spindle converter (8 - 9mm) Included	807227

Final checks, handover & support.

Before sign-off, confirm the installation is complete, recorded and ready for handover.



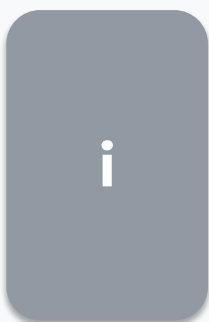
Final installation checks

- Door leaf opens, closes and latches correctly.
- Seals, threshold and drop seal operate correctly.
- Ironmongery is secure, aligned and fully functioning.
- Glazing, frame fixings and perimeter sealing are complete.
- Final gaps and adjustments have been recorded.



Handover information

- Provide O&M photos, installation records and relevant evidence.
- Include range-specific guidance for Rw Essentials or Rw Timber where applicable.
- Record any final hardware or seal adjustments made on site.
- Pass maintenance, decoration and aftercare guidance to the client.



Technical support

- Project-specific drawings, schedules and approved evidence take precedence over generic guidance.
- Video guidance may be used where provided for Tectus hinges, Swiss Planet drop seals and Tenso P-14 frame assembly.
- For current product information and installation guidance, visit [silentdoor.co.uk](https://www.silentdoor.co.uk).

Thank you for choosing SilentDoor.

For current technical guidance and project-specific support, visit www.silentdoor.co.uk