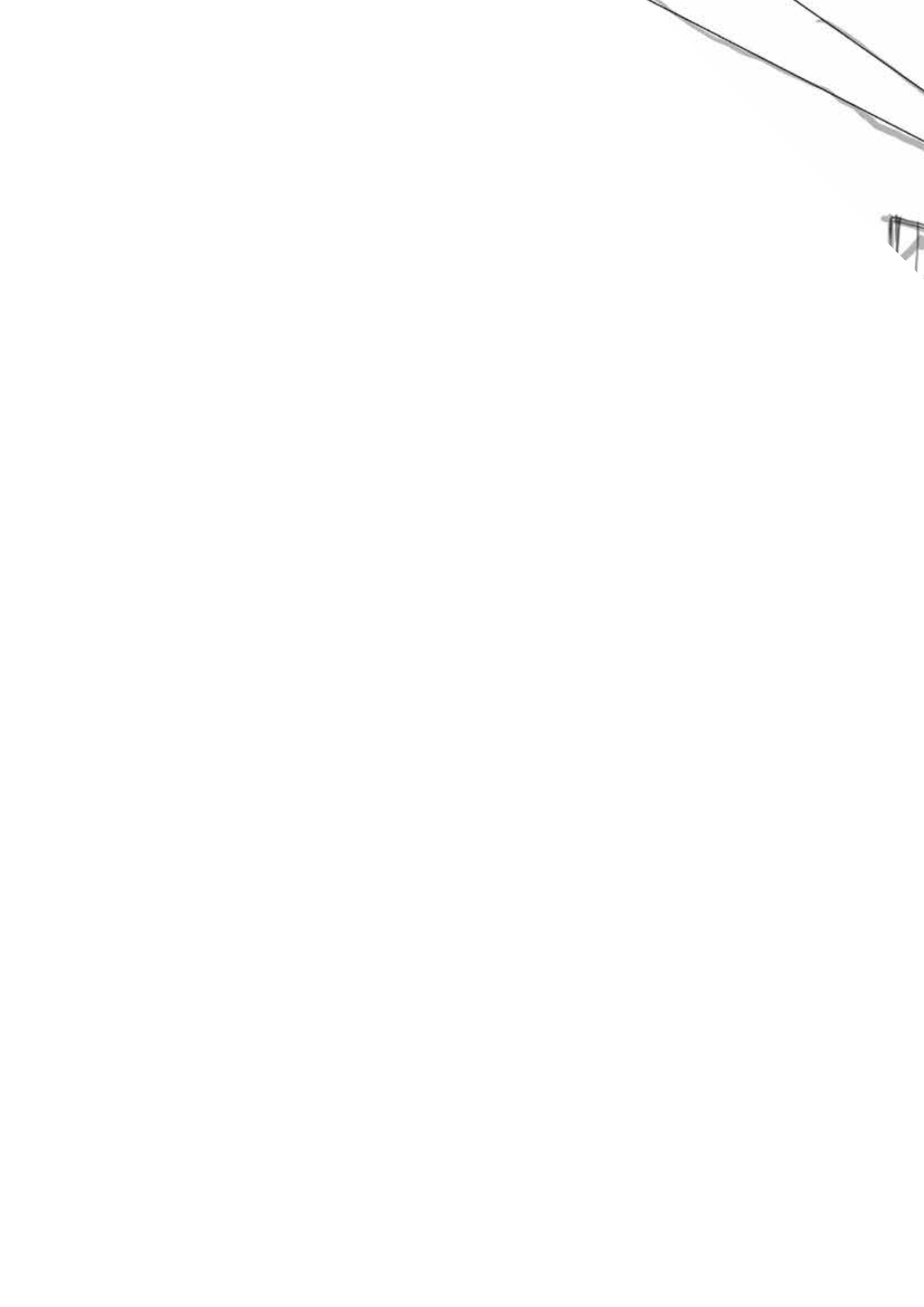
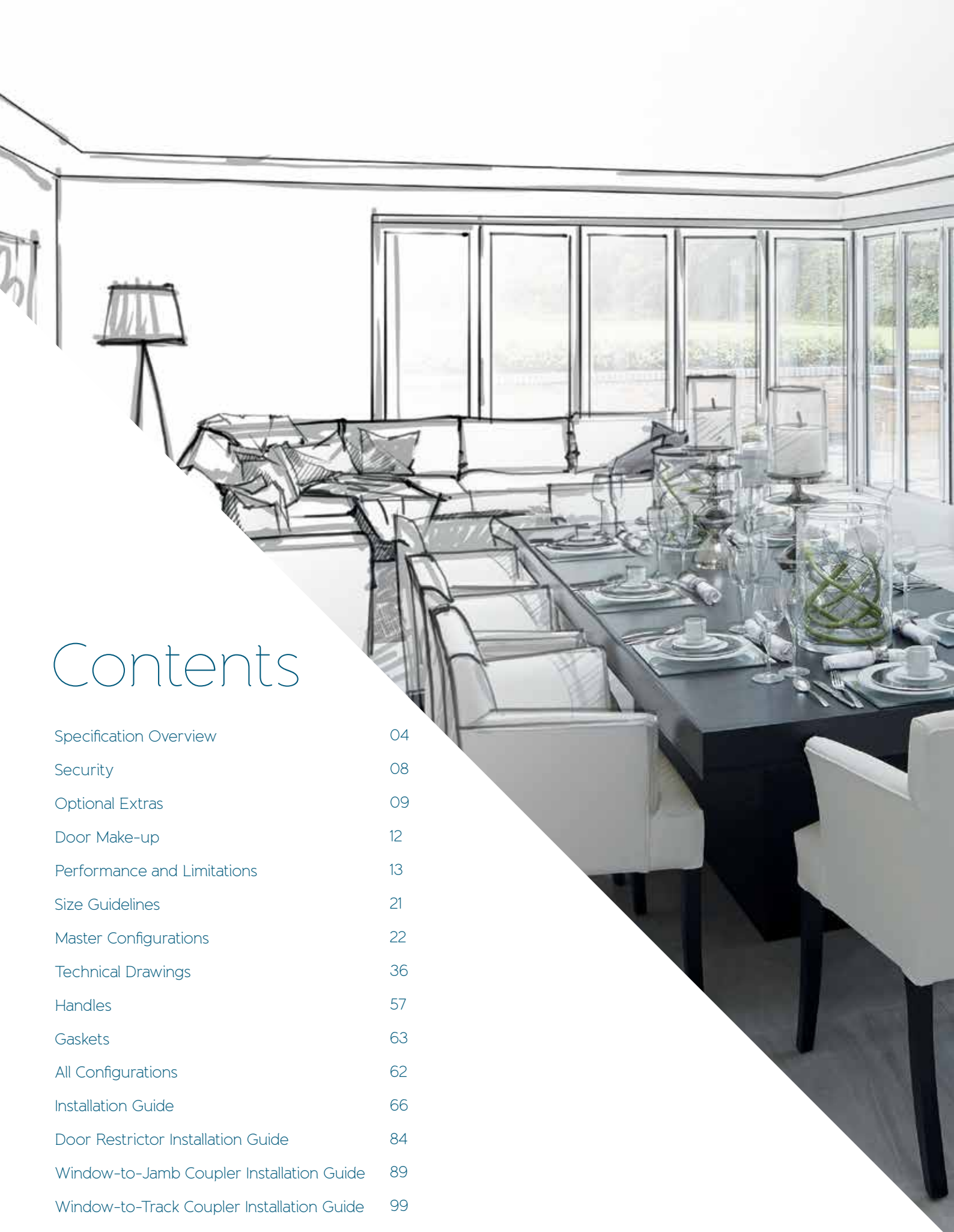
origin

DOORS AND WINDOWS

OB-49 Specification File





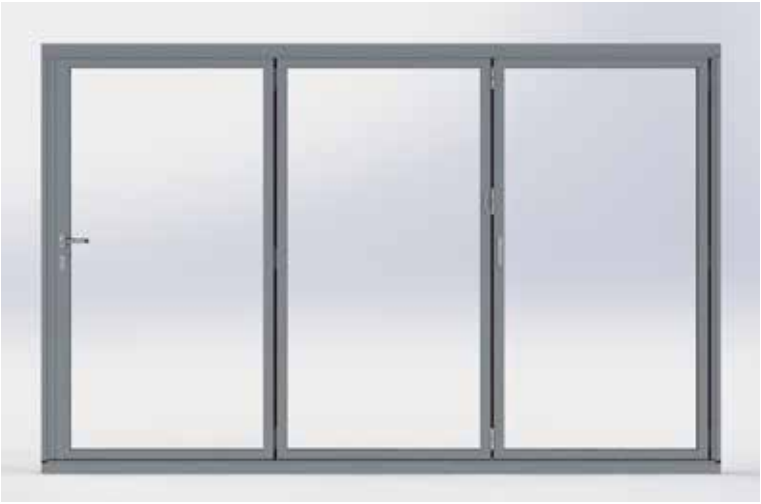
Contents

Specification Overview

Thermally Broken Aluminium Bi-folding Door

External view of the Origin Bi-fold Door (open-out)

Internal view of the Origin Bi-fold Door (open-out)



Profile Specification

Outer Frame Depth	75mm
Sash Depth	59mm
Sash Sightline	49mm
Hingestile glass to glass sightline	110mm
Track Height (not including rebate)	50mm
Weathered Threshold Height (including 18mm upstand)	67mm (including rebate)
Weathered Threshold Height including rebate	50mm
Non-weathered Threshold Height	50mm

Features

- Hafi stainless steel handle as standard
- Up to a 20-year guarantee*
- The doors are bottom running and incorporate a unique free glide carriage assembly, which uses acetal rollers with sealed SKF stainless steal bearings on an 8mm hardened stainless steel axle
- Square bead internally
- Packaged in kit form for easy transportation and installation
- 8-point locking system and includes chamfered 20mm linear bolts and deep throw 25mm security hooks
- Thumbturn option available

Options and extras

- Single, French and Bi-fold Doors available
- Accommodates double and triple glazing, with glass unit sizes of 28mm and 32mm
- Weathered and non-weathered thresholds available
- Open-in or open-out options
- Cill options available: 95, 155, 180 and 225mm (see page 53)
- Available in over 150 RAL colours
- Stainless steel or colour-coded running gear
- 3 star keyed cylinder as standard**
- Hinge colours: black, white, stainless steel finish or colour coded
- Gasket colours: black, white, light grey, graphite grey, light oak bronze or chestnut brown
- Door-to-window coupling available
- 2500EA and 5000EA trickle vents available
- Marine finish option
- Comprehensive handle range, including colour matched options

Guarantee based on location of where the doors will be installed.
Full terms and conditions can be found on the Origin website - origin-global.com/terms-and-conditions.
***Door sets with half cylinders will come with a standard half cylinder instead of a 3 Star Diamond.*

The OB-49 is available across all colours in 4-weeks.

4-WEEK LEAD TIME

ANY RAL COLOUR

RAL 4010

RAL 6019

RAL 2004

RAL 5013

RAL 7001

RAL 1003

RAL 6027

RAL 6021

RAL 5023

Dark Silver Metallic (9007M)

Black Grey (7021M)

Jet Black (9005M)

Hipca White (9910G and 9910M)

Anthracite Grey (7016M)

DUAL COLOUR OPTION

Dual colour options are also available on a 4-week lead time.

Even the gasket colour and drainage cap colour is your choice...

	Door Colour	Recommended Gasket Colour	Recommended Drainage Cap Colour
A.	7015M	Slate Grey	Dark Grey
A.	9007M	Slate Grey	Cement
B.	7016M	Anthracite Grey	Dark Grey
C.	9005M	Black	Black
C.	7021M	Black	Dark Grey
D.	9910G	White	White


A. Slate Grey


B. Anthracite Grey


C. Black

D. White

NB: Woodgrain finishes are only available on the OB-72.

Security

Multi-Point Lock

All lead doors greater than 1125mm tall contain the Origin multi-point lock

The Origin multi-point lock offers 8-points of locking and is part of the reason our overall door system is PAS 24 certified*

Origin doors also have Secured by Design (SBD) status. SBD is a police-preferred standard that focuses on the level of performance on accessible doors and windows for weather, security, operation and quality. It is a preferred standard by police as it shows a manufacturer has thought about crime during the design process and ways to limit it.

Barrels

As standard, the OB-49 comes with a 3-Star Diamond British Kite Mark barrel.

3-Star Diamond Barrel.

*PAS23/PAS24 is certified when a 3 star barrel is selected.

**The ABS barrel is only available on single doors.

Optional Extras

Trickle Vents

Trickle vents have to meet the minimum air flow rates as defined in the British Building Regulations (see specifics below).

Should it be required, the Origin Door can be specified with discreetly designed trickle vents which are installed through the top track for additional ventilation, ensuring the doors meet and surpass building regulations.

Internal view

External View

Trickle vents on our bi-fold can only be fitted through the top track or through the frame extender.

Thresholds – weathered, non-weathered and mobility

Weathered and non-weathered options are available, so you can pick the right option for to cater for your customer's needs. A mobility threshold option is only available on single doors and French doors.

Door Restrictor

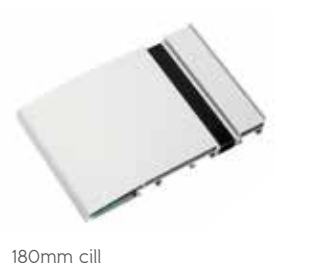
We offer either a 90 degree or 135-degree door restrictor that will help hold the door in place while being operated.

Cills

Choose from our 4 cill options which can also be powder-coated to match the doors.

95mm cill

150mm cill



180mm cill

225mm cill

Handles

Choose from a selection of elegant handle styles that have been designed and manufactured with the same care and dedication as every other door component. You can specify from our popular aluminium range or our premium stainless-steel range. Our stainless steel handles, slave handles and D-handles are able to be specified in stainless steel or in a colour coded RAL option.

Premium stainless steel range

Solid stainless steel lever handle with separate escutcheon

(Style 253/280)

Solid stainless steel lever handle with separate escutcheon

(Style 251/280)

Solid stainless steel lever handle with separate escutcheon

(Style 301/280)

Solid stainless steel lever handle with separate escutcheon

(Style 303/280)

Solid stainless steel handle with long back plate

(Style 253/270)

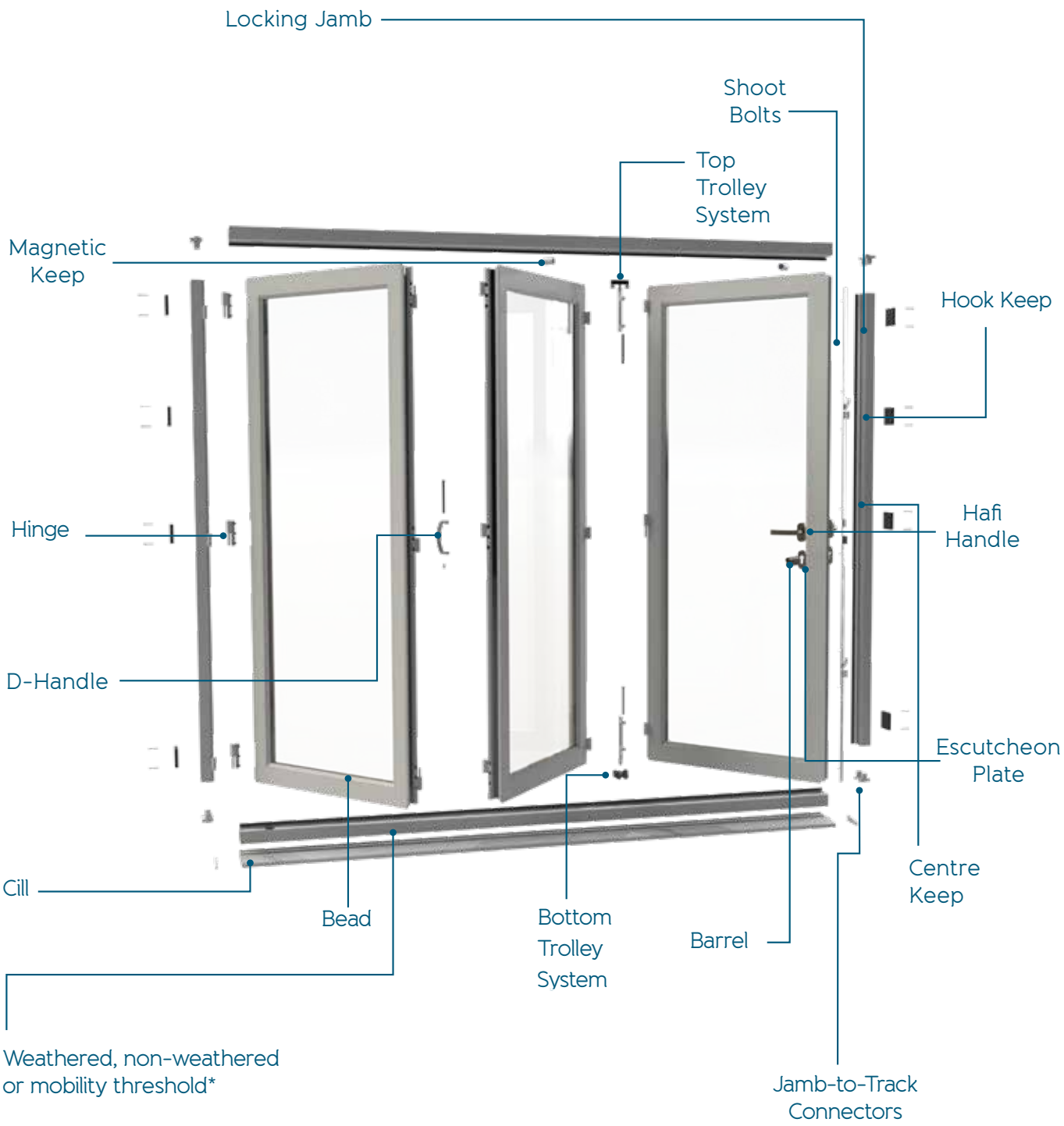
D handle

(H-002)

Slave handle

(H-021)

Door Make-Up



**Mobility threshold is only available on Single and French Doors*

Performance and Limitations

Origin Thermal Ratings	u-Value
Origin Bi-Fold Door Double Glazed	1.5 W/(m2K)
Origin Bi-Fold Door Triple Glazed (with krypton)	1.2 W/(m2K)
Origin Bi-Fold Door Triple Glazed (with argon)	1.4 W/(m2K)
Energy Rating	NPD

Weather Rating	Performance
Air Permeability	Class 4
Resistance to Wind Load	Class A2
Water Tightness	Class 9A
Exposure Category	1200pa (Up to 2700mm tall) 800pa (2701mm - 3000mm tall)

Performance Testing

PAS24:2016

BS 6375 Parts 1, 2 & 3

Accreditation

ISO 9001 and ISO 14001

Building Regulation Requirements

New Build and Extensions	2.0 W/(m2K)
Replacements	1.8 W/(m2K)
Energy Rating	E or better

All doors must conform to these requirements.

Size limitations

	Width	Height
Minimum Sash Size (mm)	325	400
Maximum Sash Sizes (mm)	1200	2376
Minimum Set Sizes (mm):	463	524
Maximum Set Sizes (mm):	6000 (without joining tracks) 27600 (with joining tracks)	2500

- Maximum steel deflection -3mm

Thermal Efficiency

The OB-49 exceeds British Building Regulation requirements for optimum thermal efficiency. With u-Values as low as 1.2, the Origin Door comprises of some of the most sophisticated weather-tight seals to ensure the elements stay out.

See pages 16-20 for more information on thermal efficiency and weather ratings.

origin

OB-49

Certificate of thermal simulation

PRODUCT:	OB-49
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.5 W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME - P991 (STANDARD TRACK), P992 (JAMB), SASH - P216
BEAD:	28mm
GLASS SPEC:	4mm CLEAR - 10mm 90% KRYPTON - 4mm PLANITHERM 4SII - 10mm 90% KRYPTON - 4mm PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.2W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: July 2019

SIGNED:

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

origin
DOORS AND WINDOWS

OB-49

Certificate of thermal simulation

PRODUCT:	OB-49
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.8 W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME - P991 (STANDARD TRACK), P992 (JAMB), SASH - P216
BEAD:	28mm
GLASS SPEC:	4mm CLEAR - 10mm 90% ARGON - 4mm PLANITHERM 4SII - 10mm 90% ARGON - 4mm PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.4W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: July 2019

SIGNED:

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

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Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

origin

DOORS AND WINDOWS

OB-49

Certificate of thermal simulation

PRODUCT:	OB-49
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.0 W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME - P991 (STANDARD TRACK), P992 (JAMB), SASH - P216
BEAD:	24MM OR 28MM
GLASS SPEC:	4mm CLEAR - 16/20mm 90% ARGON - 4mm PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.5W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: July 2019

SIGNED:

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

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Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

origin
DOORS AND WINDOWS

OB-49

Certificate of thermal simulation

PRODUCT:	OB-49
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2 W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME - P991 (STANDARD TRACK), P992 (JAMB), SASH - P216
BEAD:	28MM
GLASS SPEC:	4mm DIAMANT - 16/20mm 90% ARGON - 4mm PLANITHERM TOTAL+
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.7W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: July 2019

SIGNED:

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

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DOORS AND WINDOWS

OB-49

Classification of weather tightness

PRODUCT TESTED: OB-49 (up to 2500mm tall)

- Air permeability tests in accordance with BS EN 1026:2000
- Watertightness test in acoordance with BS EN 1027:2000
- Wind resistance tests in accordance with BS EN 12211:2000
- Exposure category classification in accordance with BS 6375-1:2009 (clauses ,7 and 8)

RESULTS:

UK exposure category	Air permability	Water tightness	Resistance to wind load
1200pa (Up to 2700mm tall) 800pa (2701mm - 3000mm tall)	Class 4A	Class 9A	Class A2

TESTED BY: Build Check Ltd
REFERENCE: W17183-1
DATE: July 2019

Email: info@origin-global.com | Web: www.origin-global.com
Origin Frames Ltd, Sands 10 Industrial Estate, Hillbottom Road, High Wycombe, HP12 4HS

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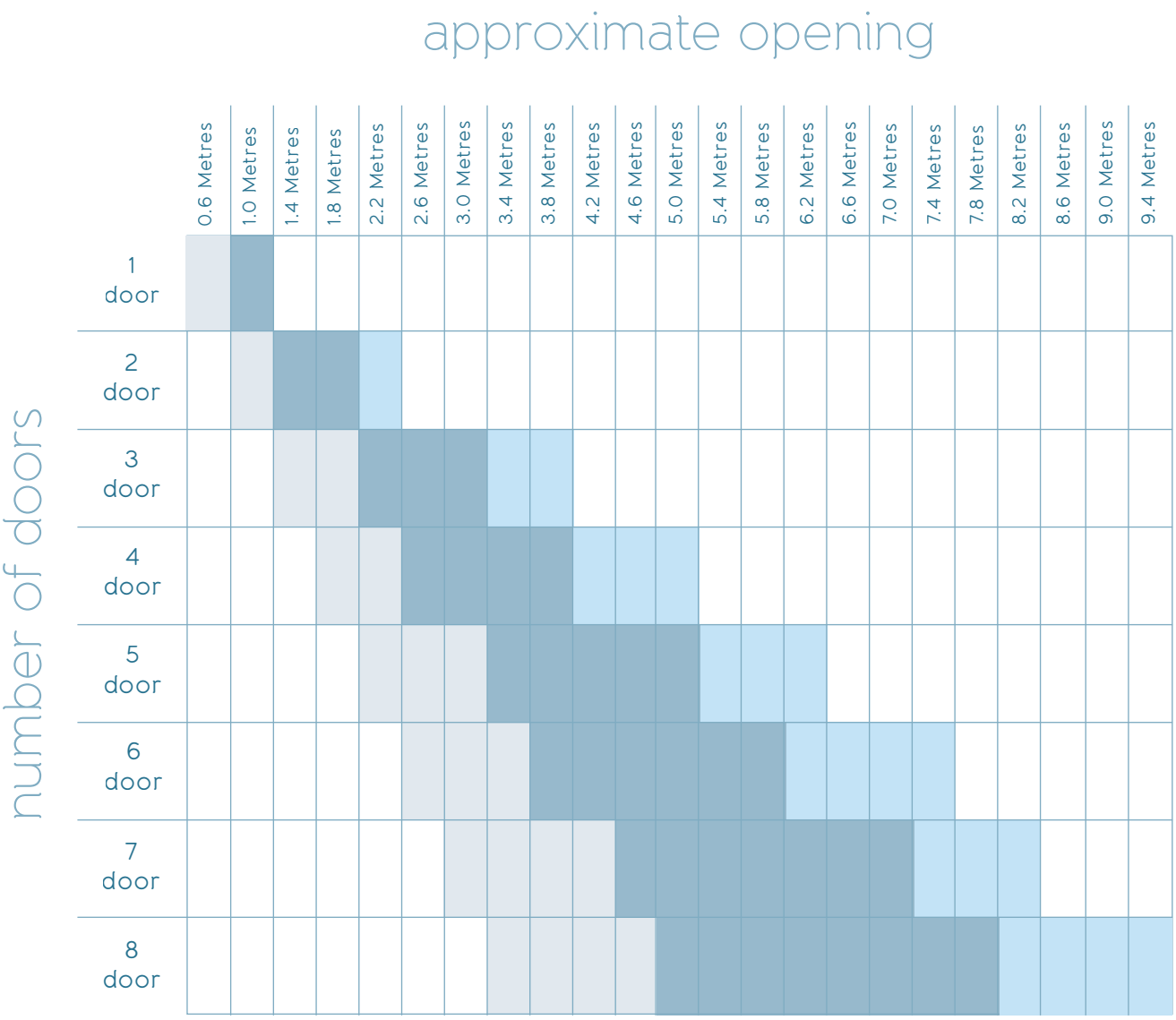
DOORS AND WINDOWS

Size Guidelines

Configuration table



The above sizes are for guidance only and are subject to glass specification.

Origin doors are available with up to 12 leaves.

Key:

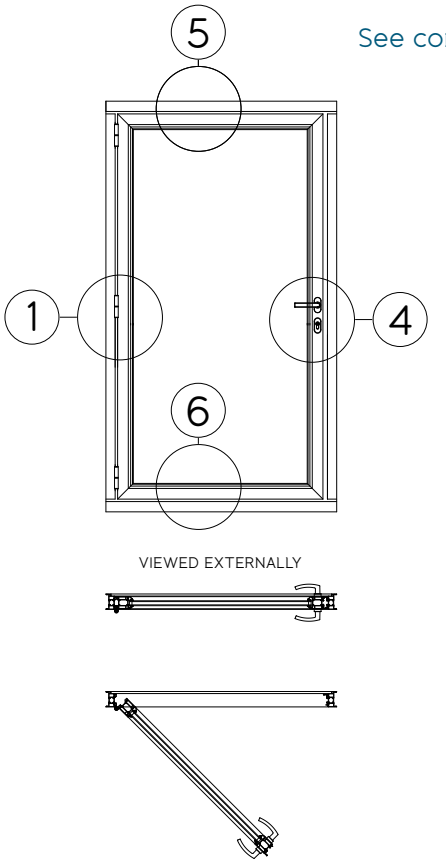
Optimum door leaf sizes

Wide door leaf sizes

Narrow door leaf sizes

Master Configurations

Master Configuration: single door



See configuration key for section detail

Single Door

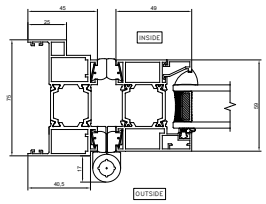
See page 70 for configurations

Key features

- Origin 8-point locking system depending on height
- Is able to be used for an everyday access door

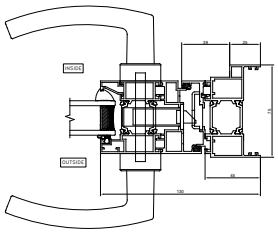
Configuration Key

1 - Hinge jamb detail



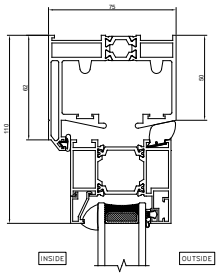
See page 36

4 - Locking jamb detail



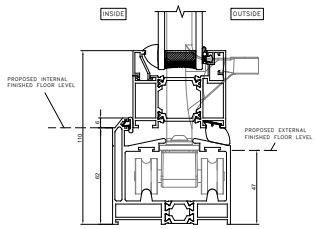
See page 38

5 - Top track detail



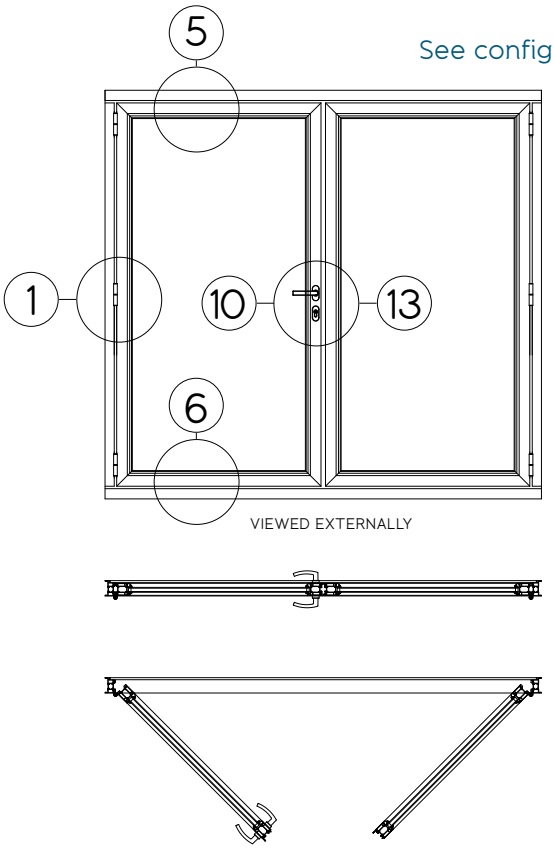
See page 39

6a -6d - Threshold details



See page 40-42

Master Configuration: French door



See configuration key for section detail

French Door

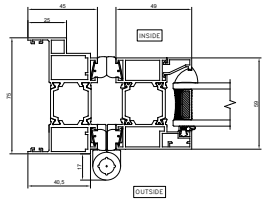
See page 70 for configurations

Key features

- Origin 8-point locking system depending on height

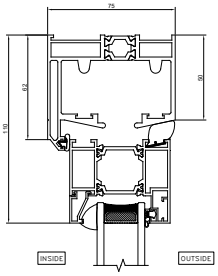
Configuration Key

1 - Hinge jamb detail



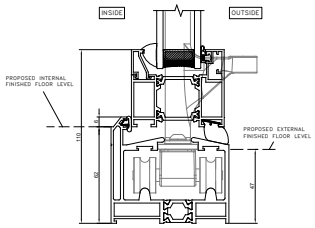
See page 36

5 - Top track detail



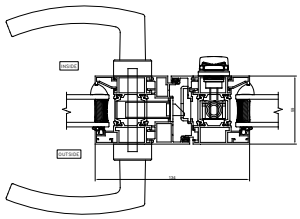
See page 39

6a -6d - Threshold details



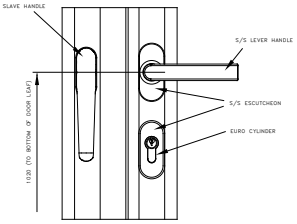
See page 40-42

10 - Locking slave detail



See pages 46

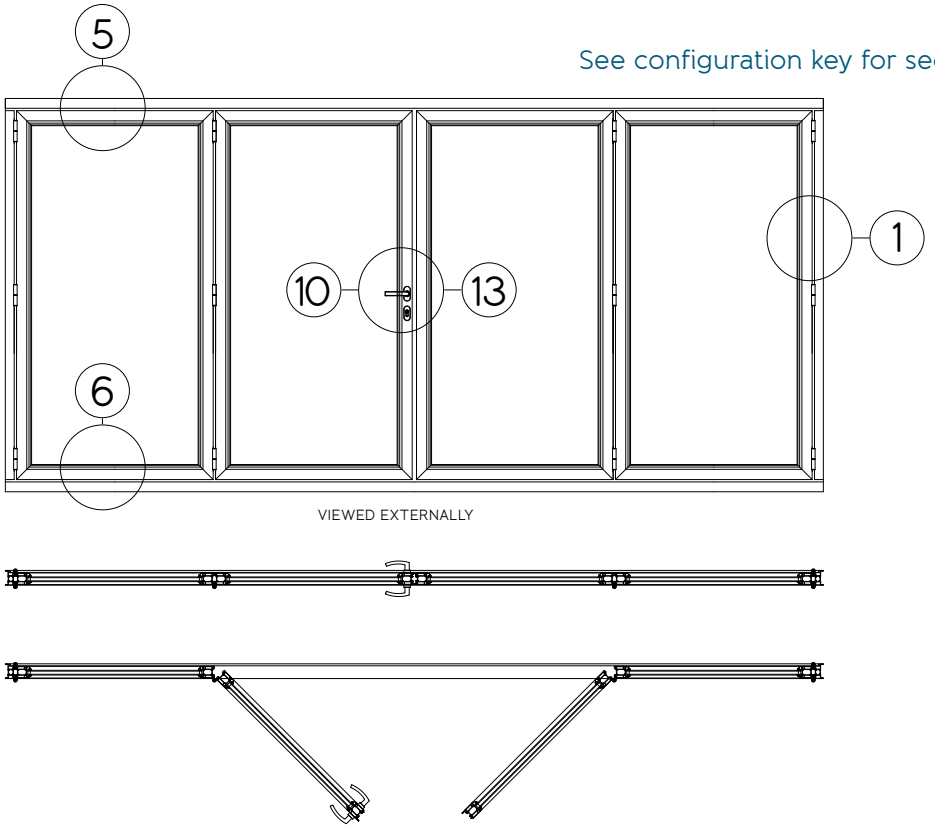
13 - Locking slave handle detail



See page 49

Master Configuration: French door with fixed panels

See configuration key for section detail



French Door with Fixed Panels

See page 70 for configurations

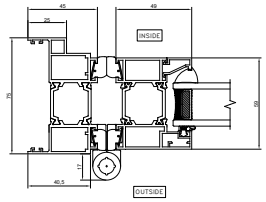
Key features

- Origin 8-point locking system depending on height
- Fixed panels and can vary in size
- Ideal for Juliette balconies

**Any fixed panels will be manufactured with dummy hinges for alignment and structural purposes, unless fixed windows are specified which will be coupled to the doors.*

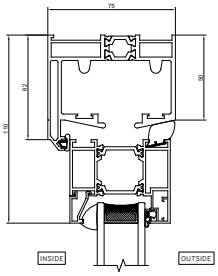
Configuration Key

1 - Hinge jamb detail



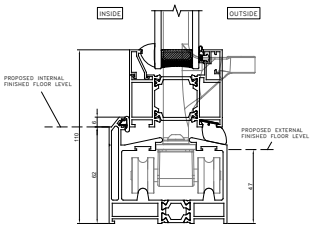
See page 36

5 - Top track detail



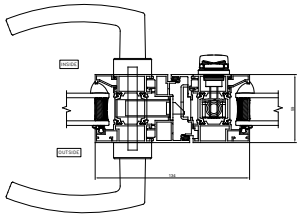
See page 39

6a -6d - Threshold details



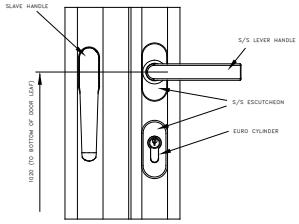
See page 40-42

10 - Locking slave detail



See pages 46

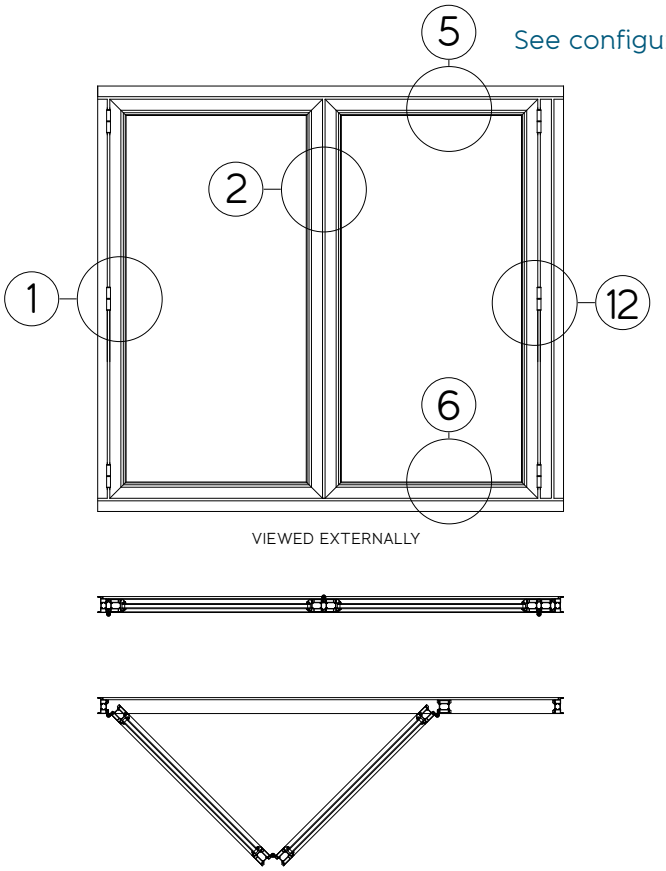
13 - Locking slave handle detail



See page 49

Master Configuration: 2+0

Master drawing and all technical detail drawings are also applicable to the following configurations: 4+0, 6+0, 8+0



See configuration key for section detail

2 Door Left

4+0

6+0

8+0

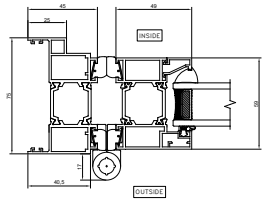
See page 70 for configurations

Key features

- All doors open-in the same direction
- No multi-point lock available on this configuration
- Requires a mullion

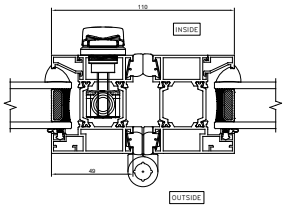
Configuration Key

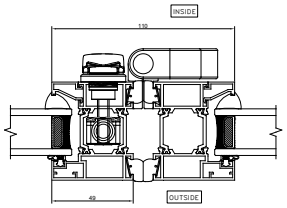
1 - Hinge jamb detail



See page 36

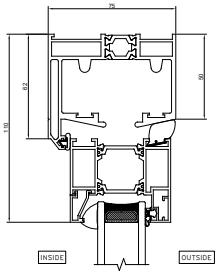
2a, 2b - Opening stiles





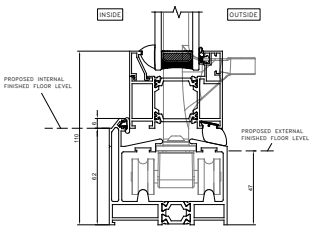
See page 37

5 - Top track detail



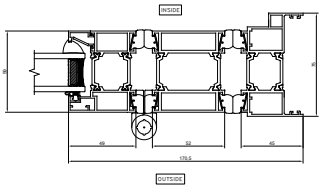
See page 39

6a -6d - Threshold details



See page 40-42

12 - Standard mullion detail

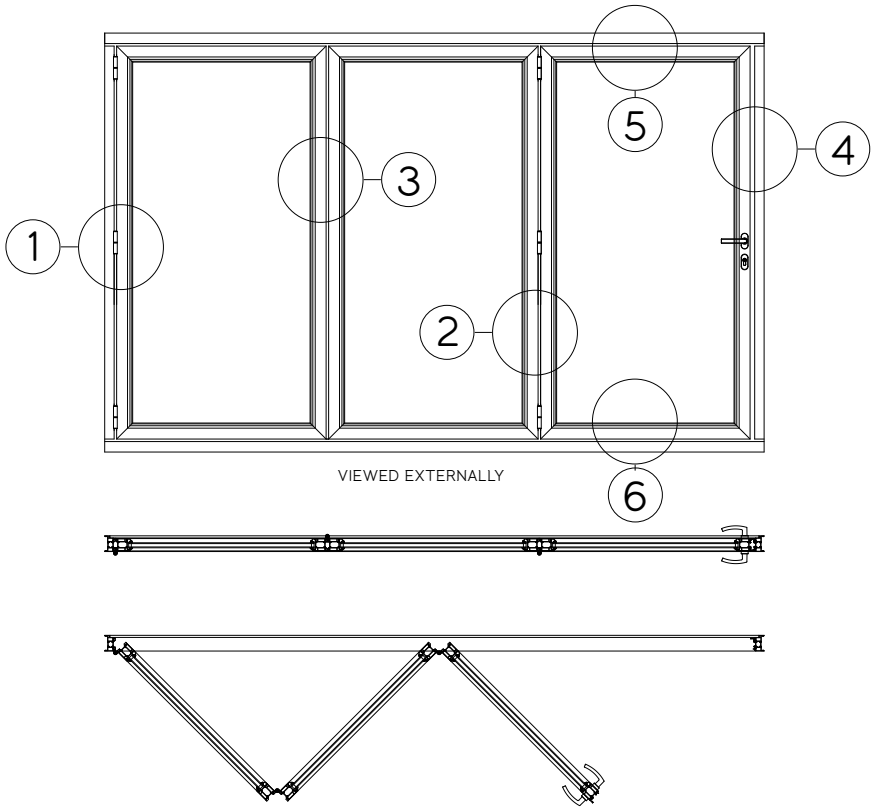


See pages 48

Master Configuration: 3+0

Master drawing and all technical detail drawings are also applicable to the following configurations: 5+0, 7+0

See configuration key for section detail



3 Door Left

5+0

7+0

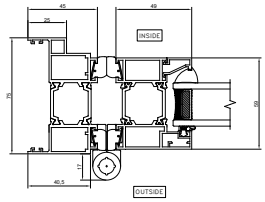
See page 70 for configurations

Key features

- Origin 8-point locking system depending on height
- Everyday access door
- All doors open-in the same direction

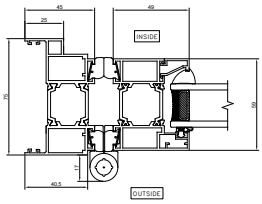
Configuration Key

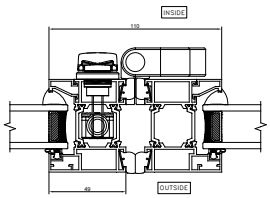
1 - Hinge jamb detail



See page 36

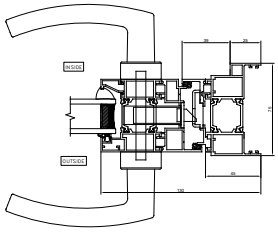
2, 3 - Opening stiles





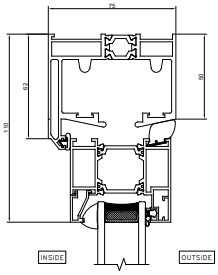
See page 37

4 - Locking jamb detail



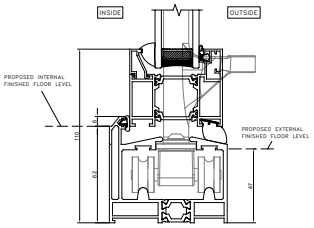
See page 38

5 - Top track detail



See page 39

6a -6d - Threshold details

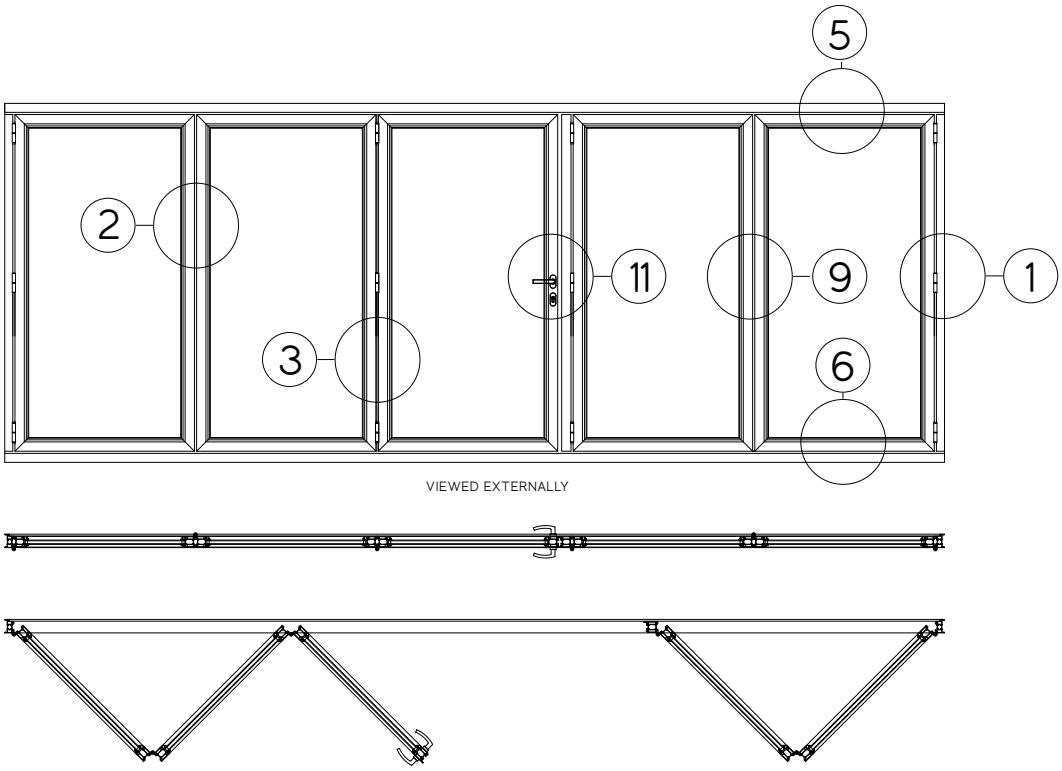


See page 40-42

Master Configuration: 3+2

Master drawing and all technical detail drawings are also applicable to the following configurations: 2+1, 4+1, 6+1, 4+3

See configuration key for section detail



3+2

2+1

4+1

6+1

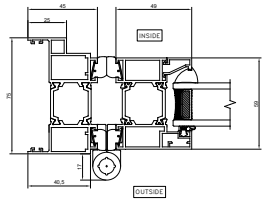
See page 70 for configurations

Key features

- Origin 8-point locking system depending on height
- Everyday access door
- Doors open to both sides

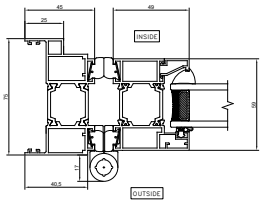
Configuration Key

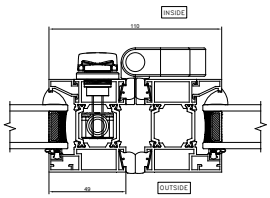
1 - Hinge jamb detail



See page 36

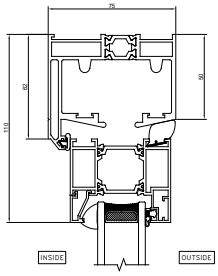
2, 3 - Opening stiles





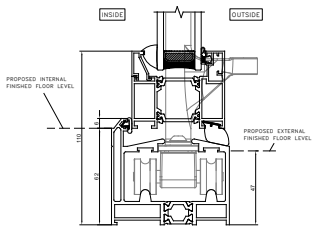
See page 37

5 - Top track detail



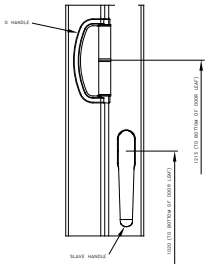
See page 39

6a -6d - Threshold details



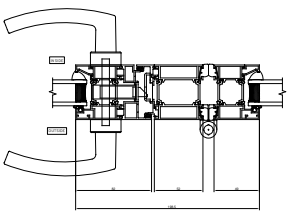
See page 40-42

9 - Slave handle layout



See page 45

11 - Locking mullion detail

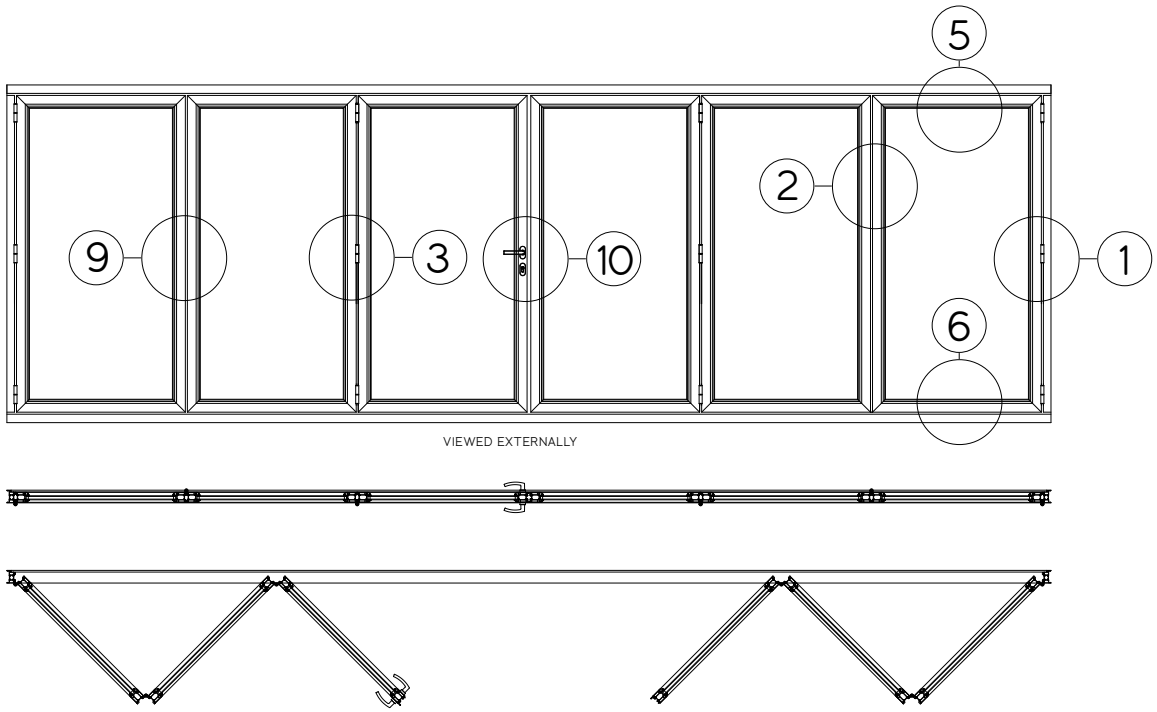


See page 47

Master Configuration: 3+3

Master drawing and all technical detail drawings are also applicable to the following configurations: 3+1, 5+1, 5+3

See configuration key for section detail




3+3


3+1


5+1


5+3

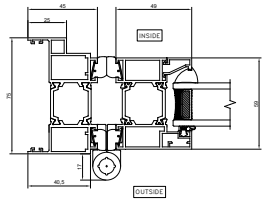
See page 70 for configurations

Key features

- Origin 8-point locking system depending on height
- Everyday access door
- Lead door and slave door can behave as French doors

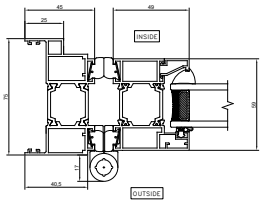
Configuration Key

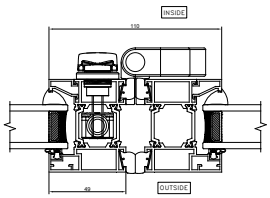
1 - Hinge jamb detail



See page 36

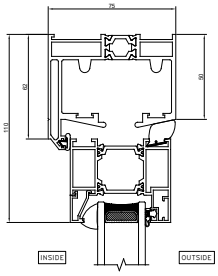
2, 3 - Opening stiles





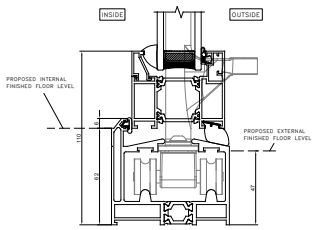
See page 37

5 - Top track detail



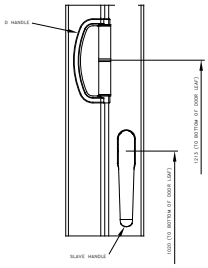
See page 39

6a -6d - Threshold details



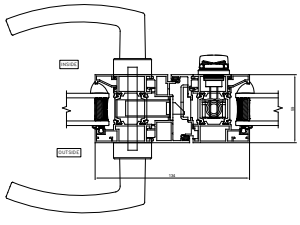
See page 40-42

9 - Slave handle layout



See page 45

10 - Locking slave detail

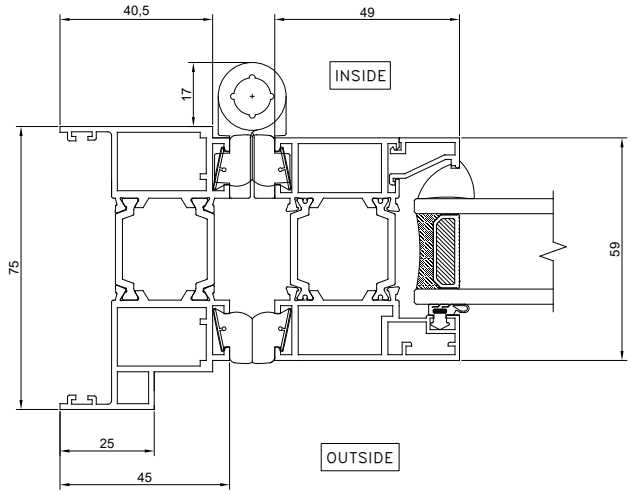


See pages 46

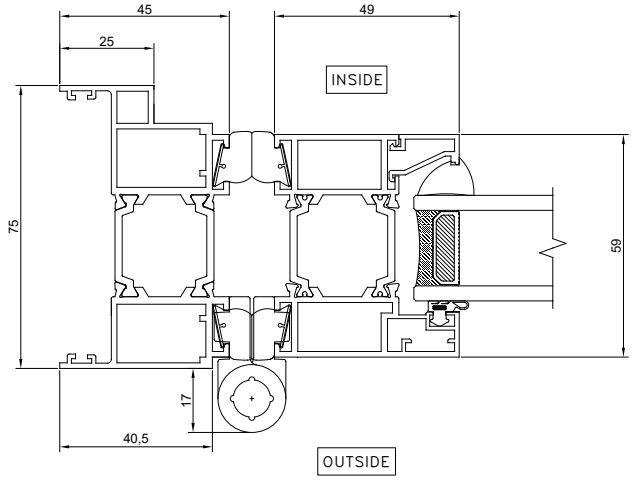
Technical Drawings

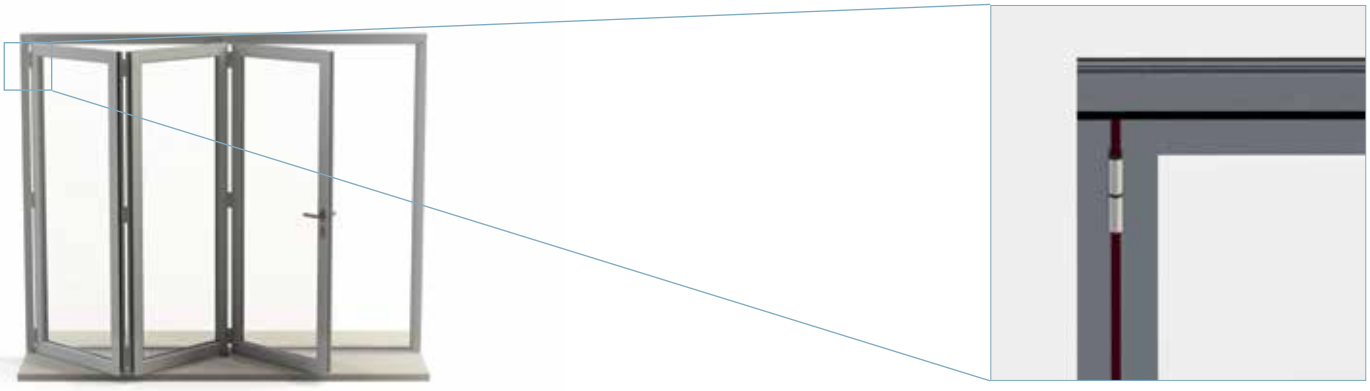
1a-1b Hinge jamb detail

Open-in



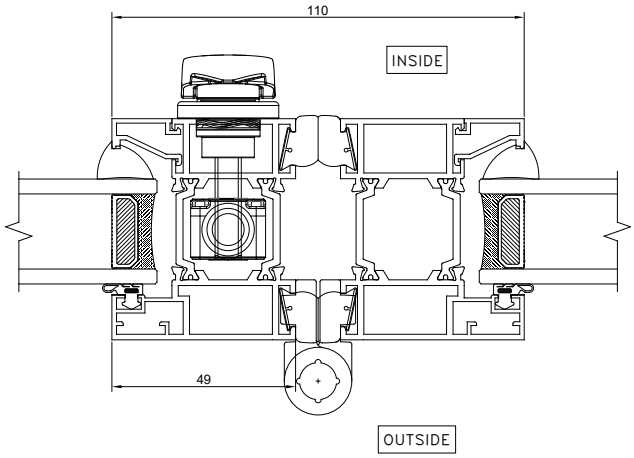
Open-out



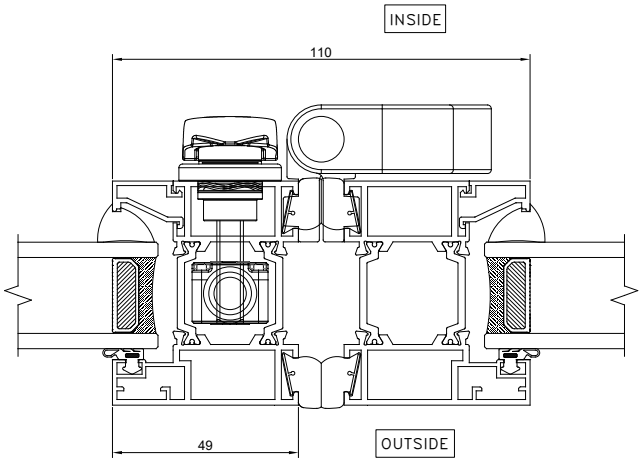


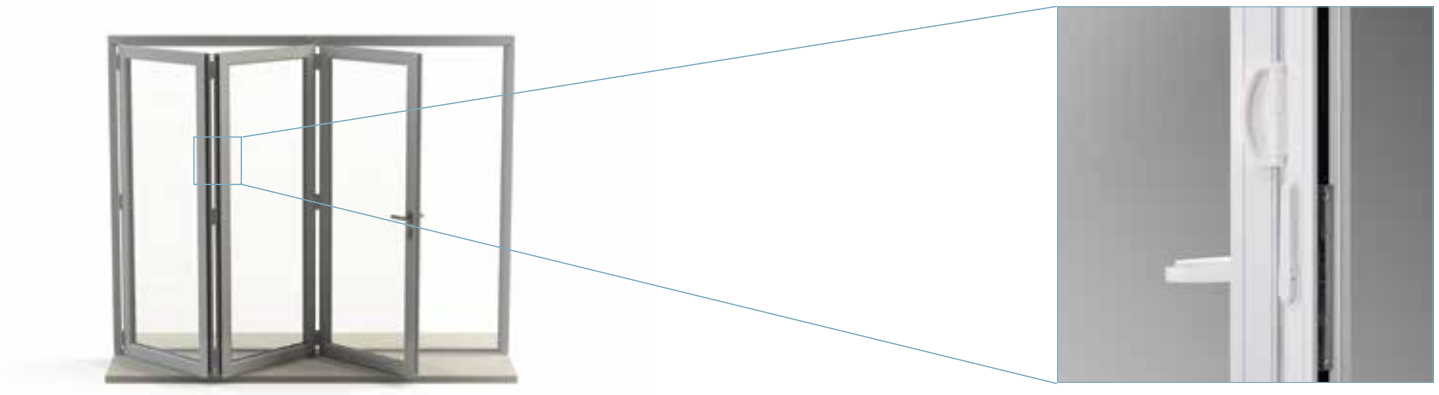
2-3 Opening stiles

Open-in



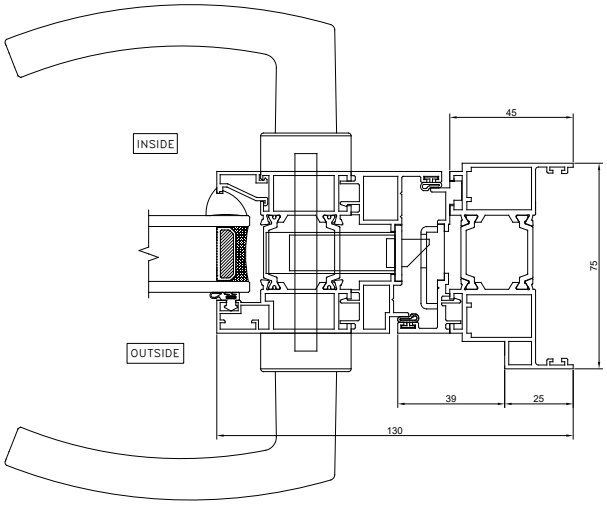
Open-out



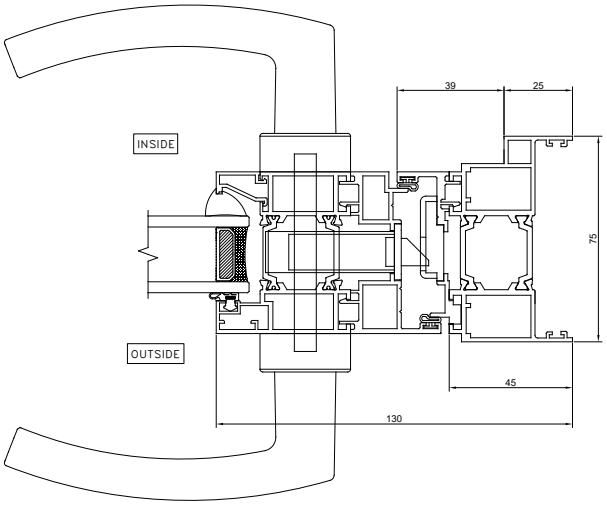


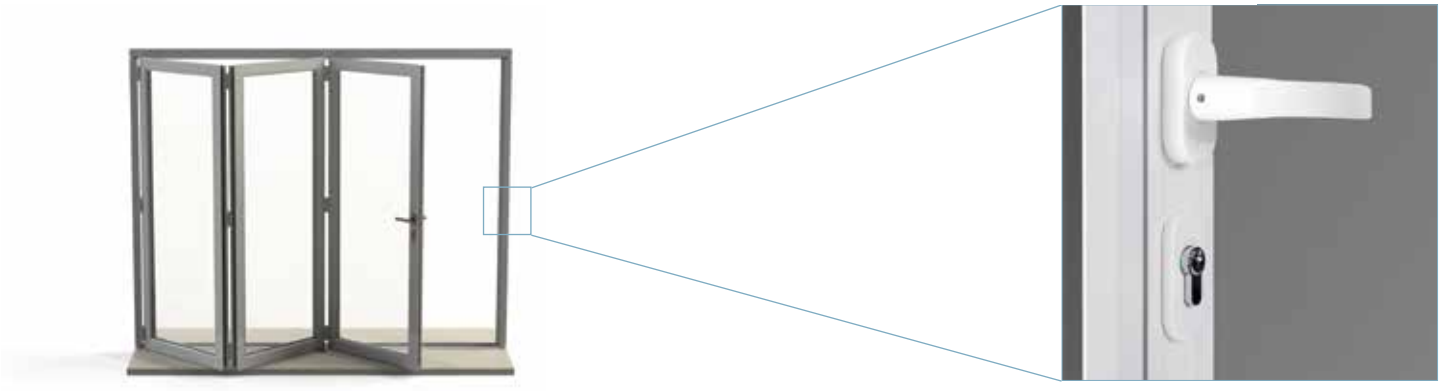
4a-4b Locking jamb detail

Open-in



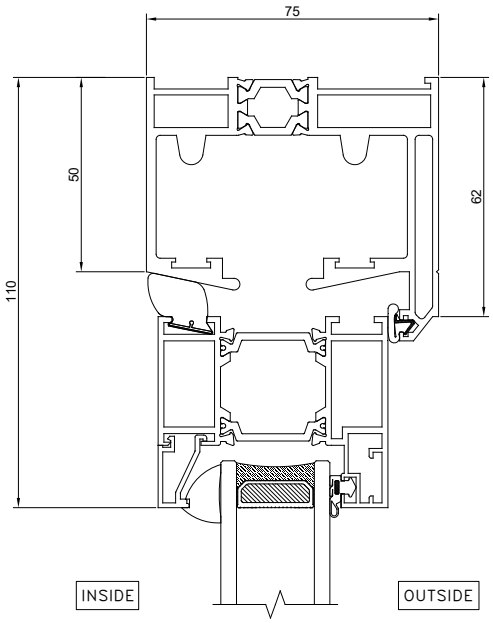
Open-out



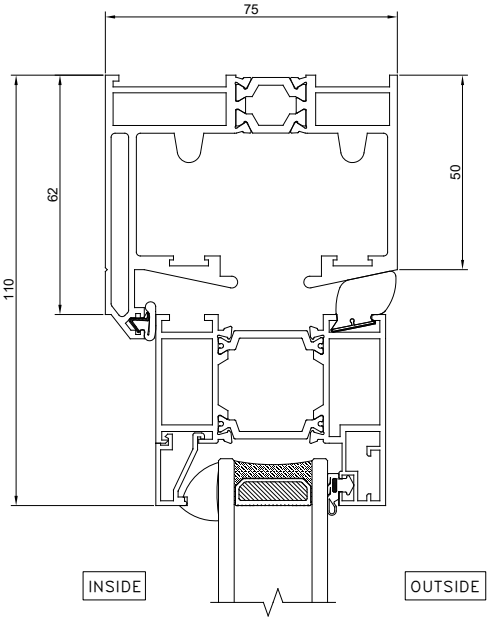


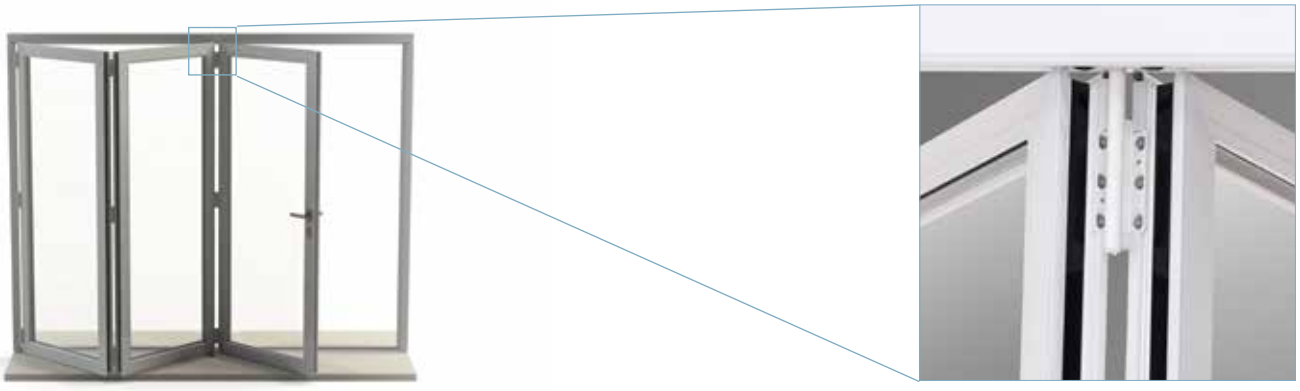
5a-5b Top track detail

Open-in



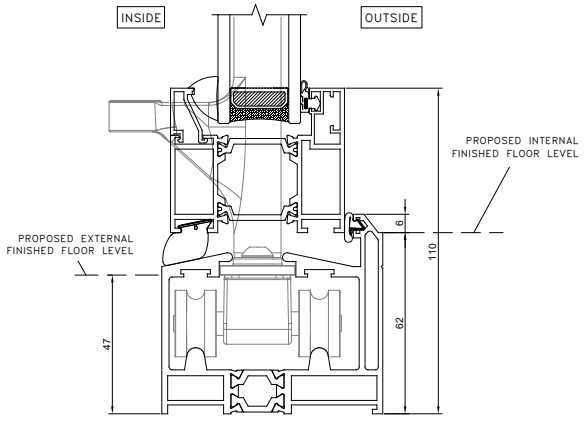
Open-out



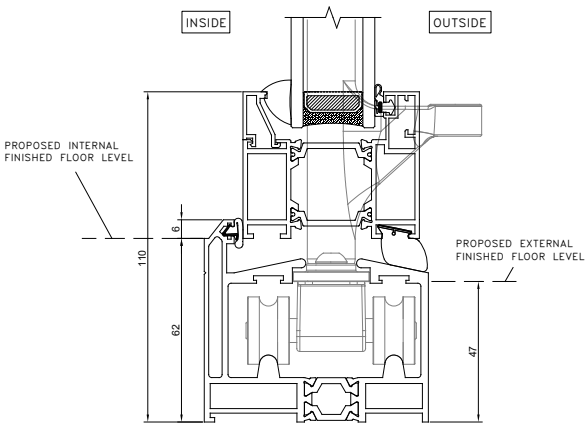


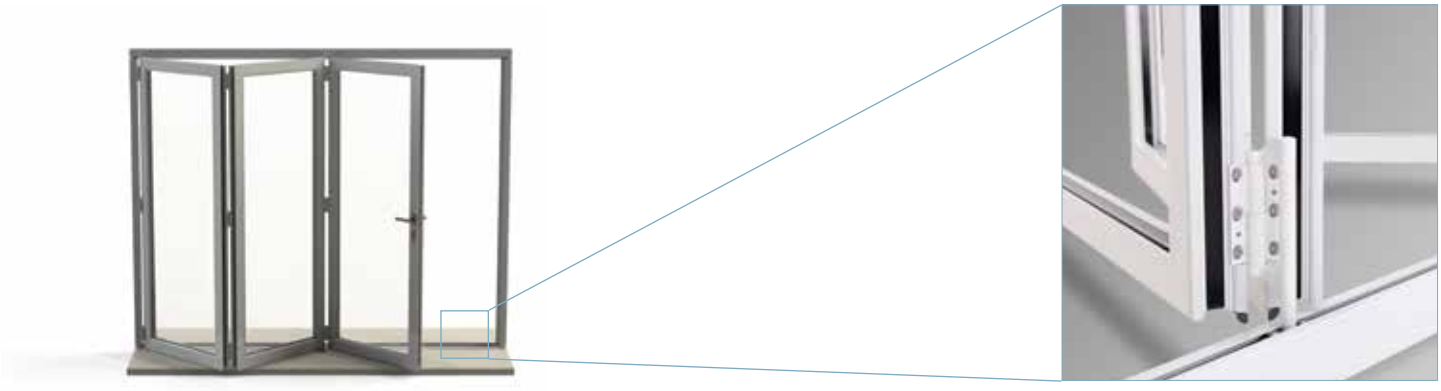
6a -6b Threshold detail on bottom track

Open-in

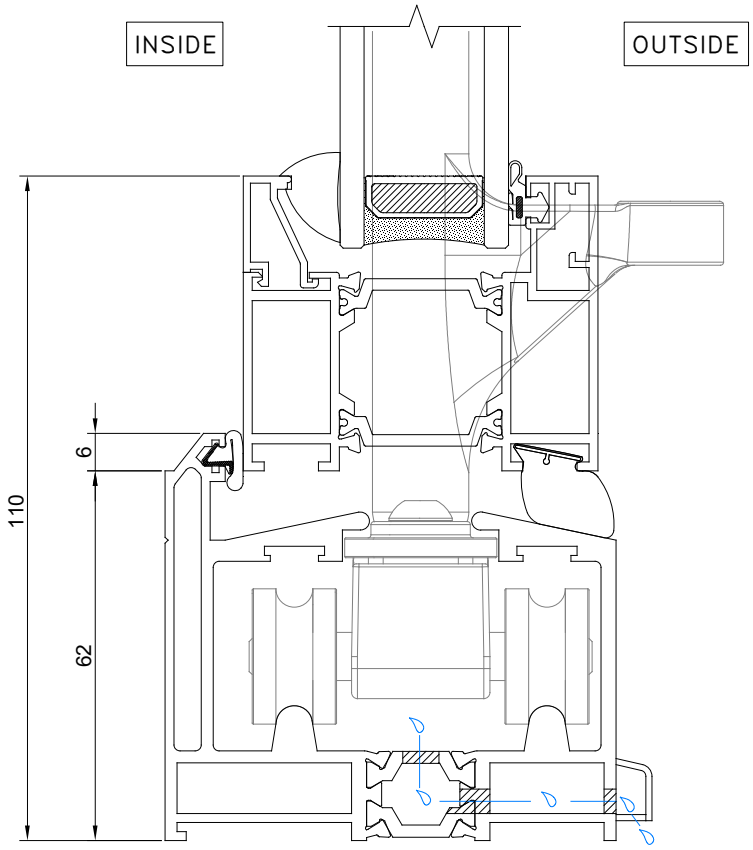


Open-out

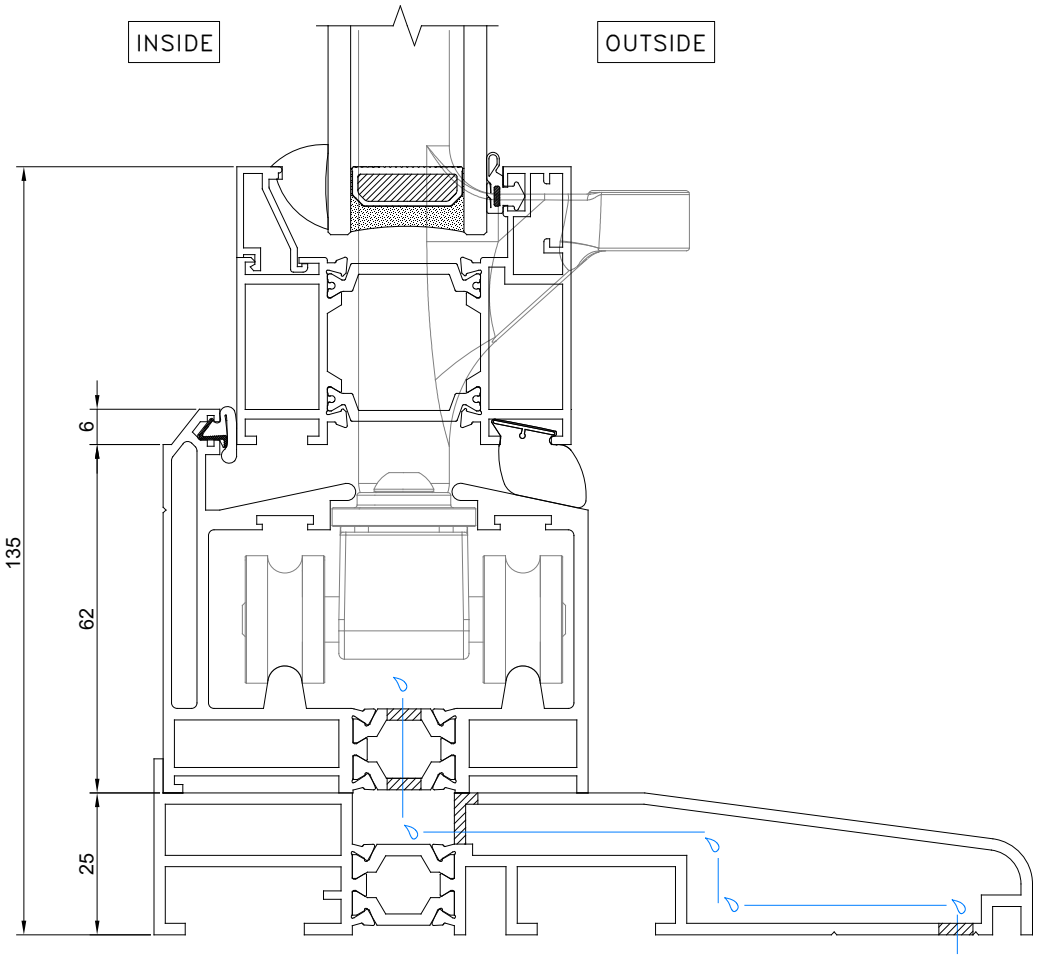




6c Face drainage threshold detail

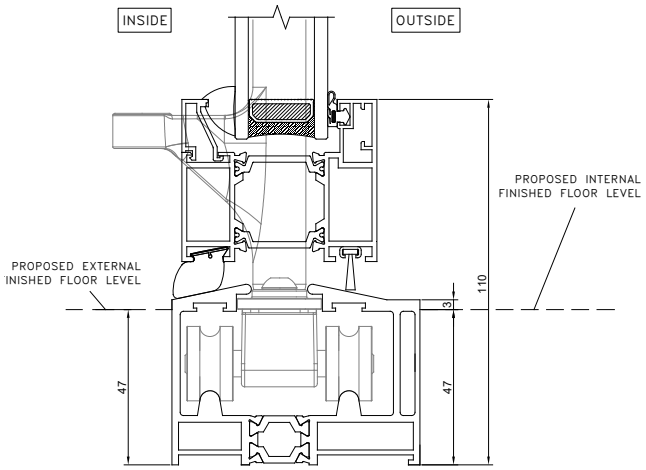


6d Concealed drainage threshold detail

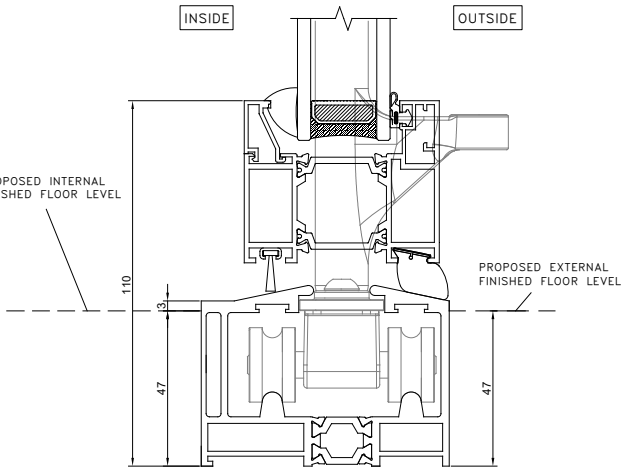


7a-7b Non-weathered threshold detail

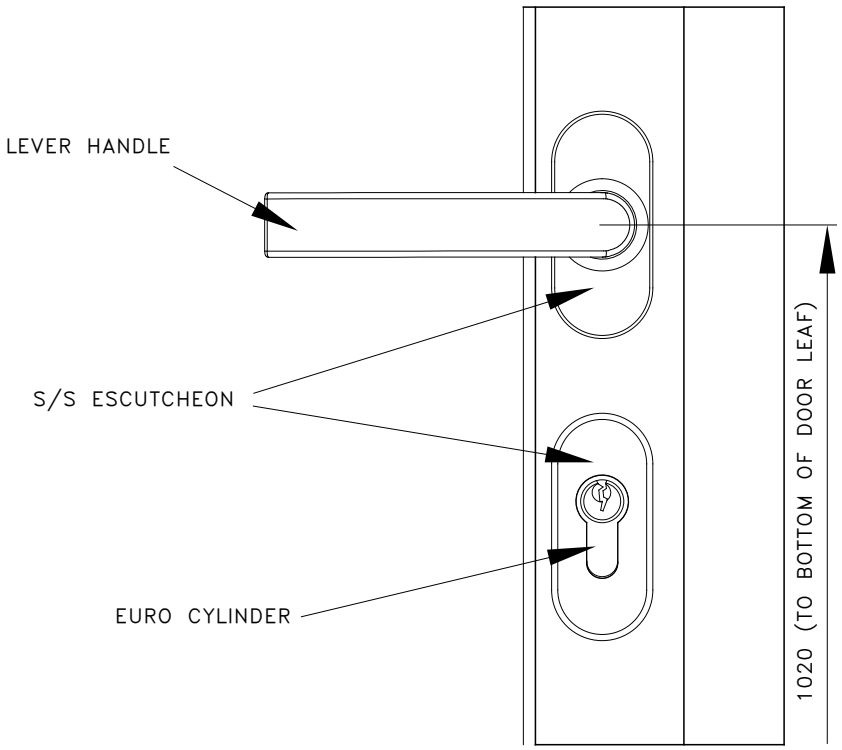
Open-in



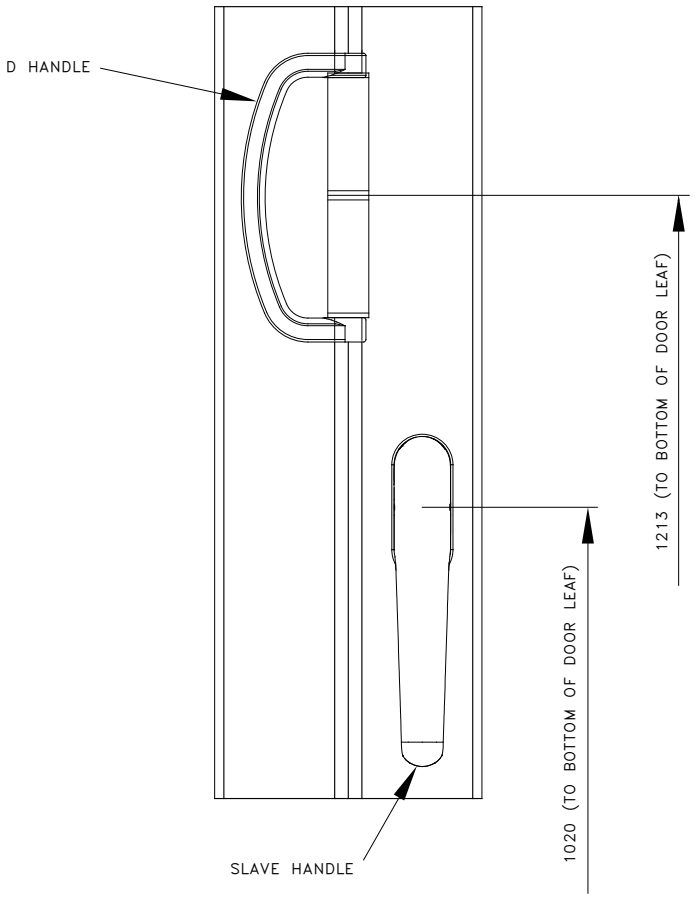
Open-out

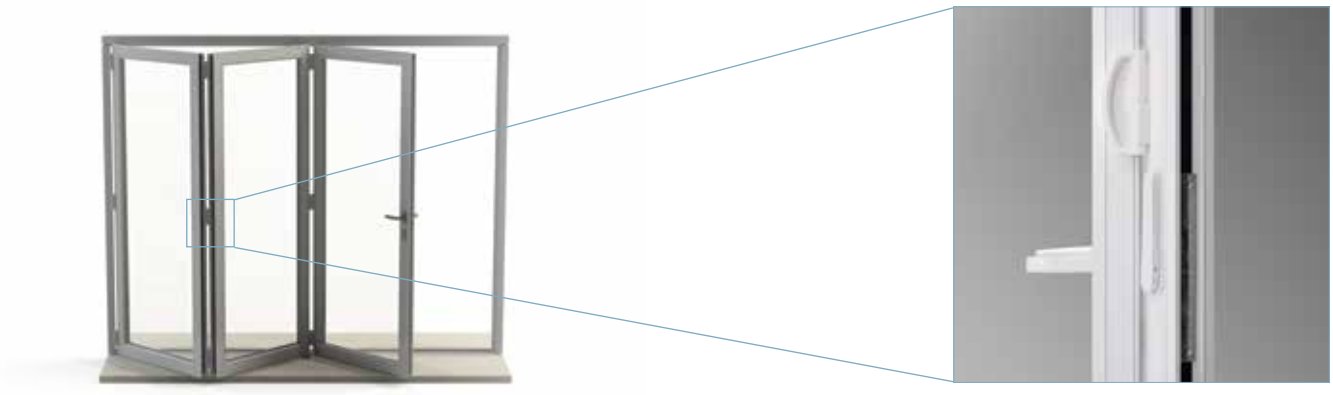


8 Hafi Handle Detail

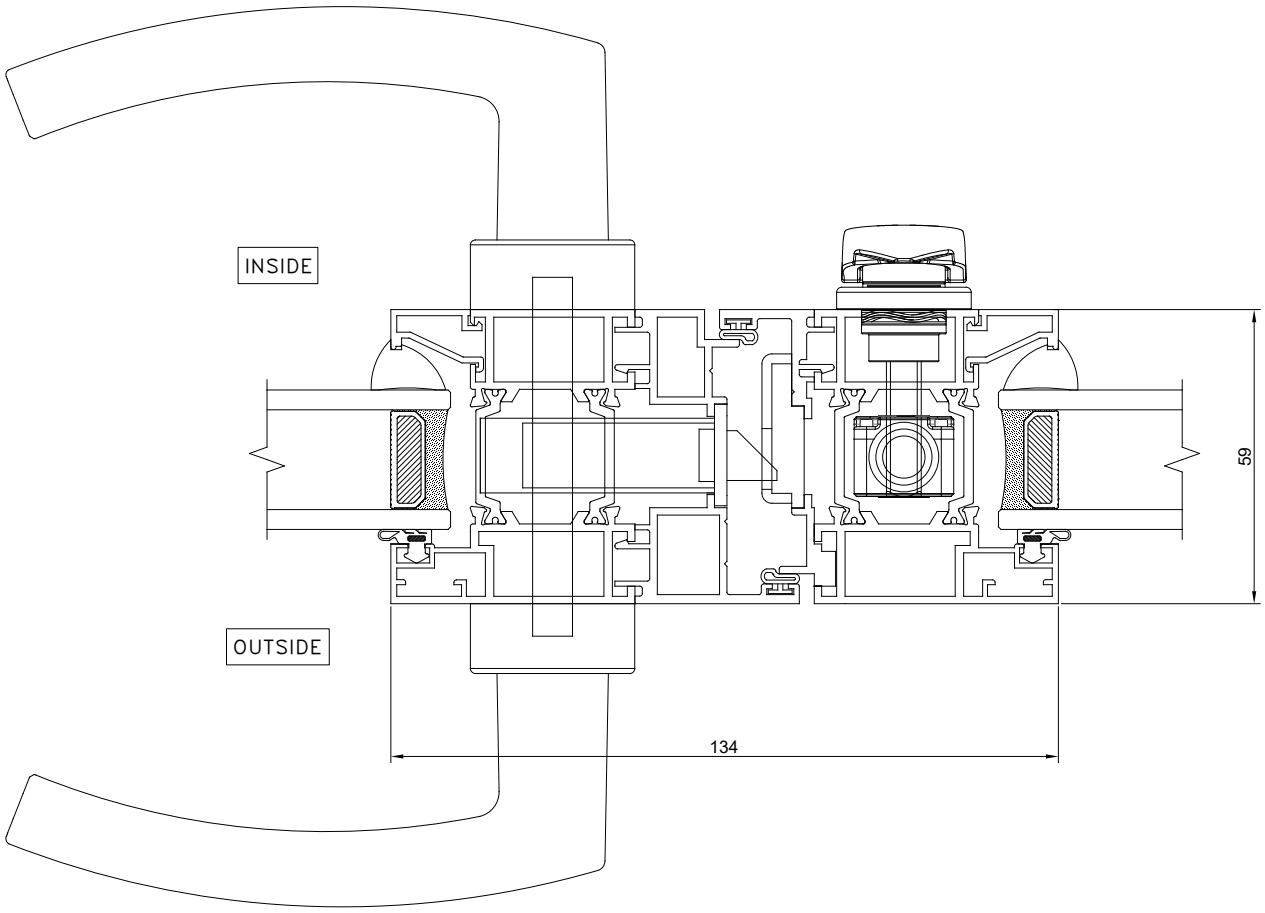


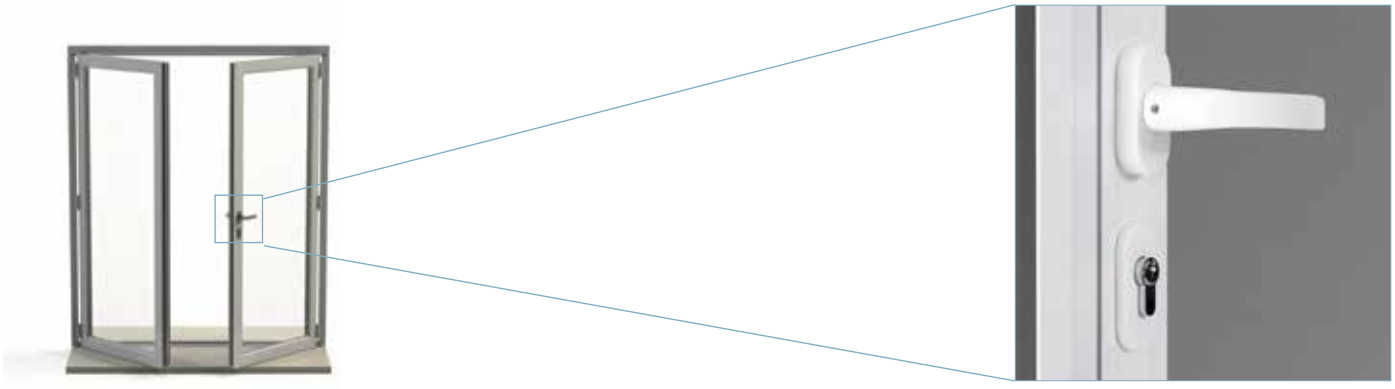
9 Slave handle layout



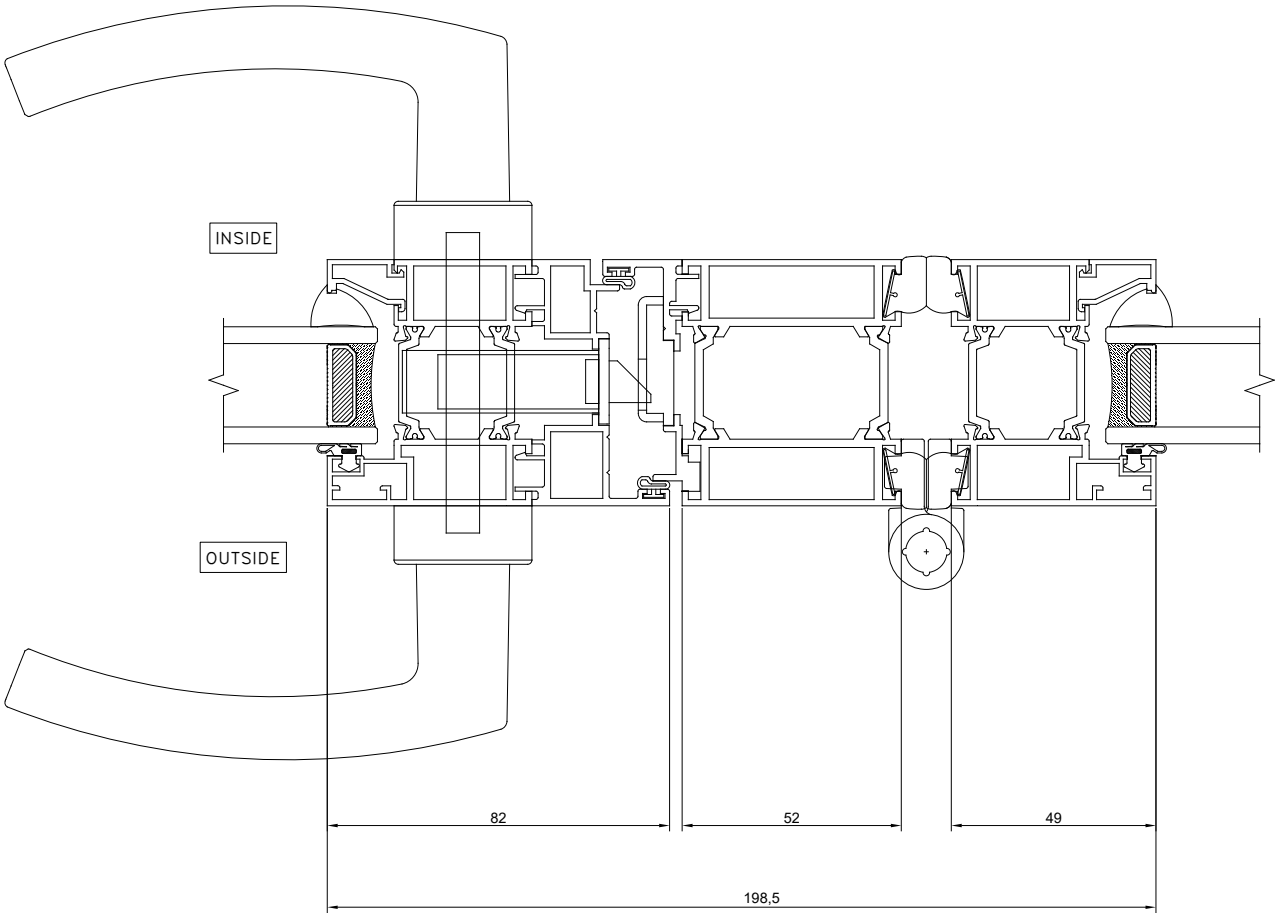


10 Locking slave detail

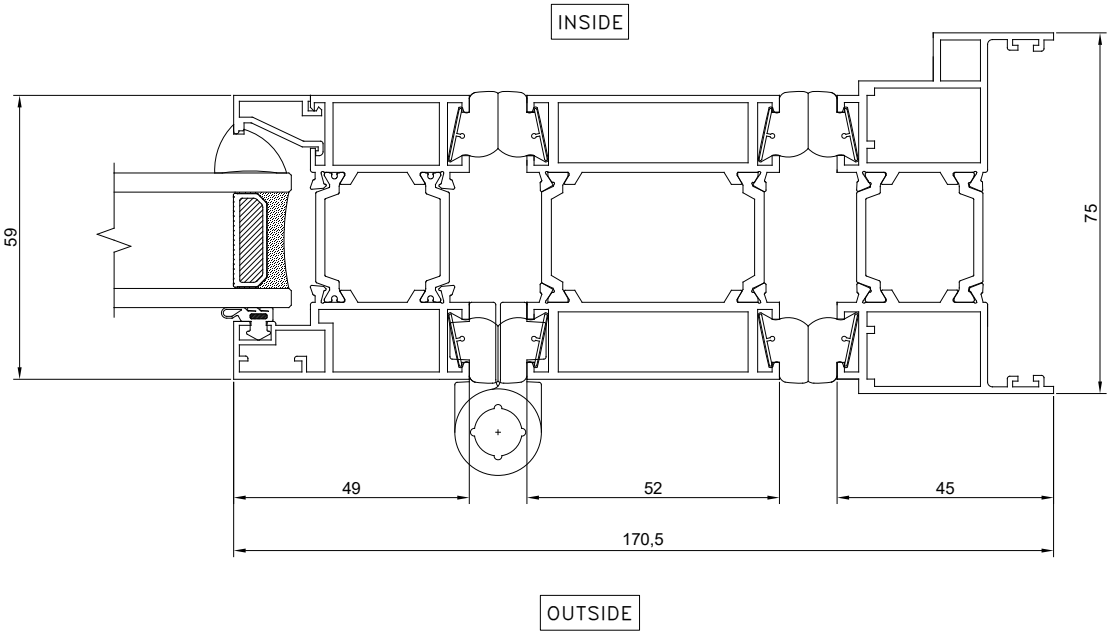




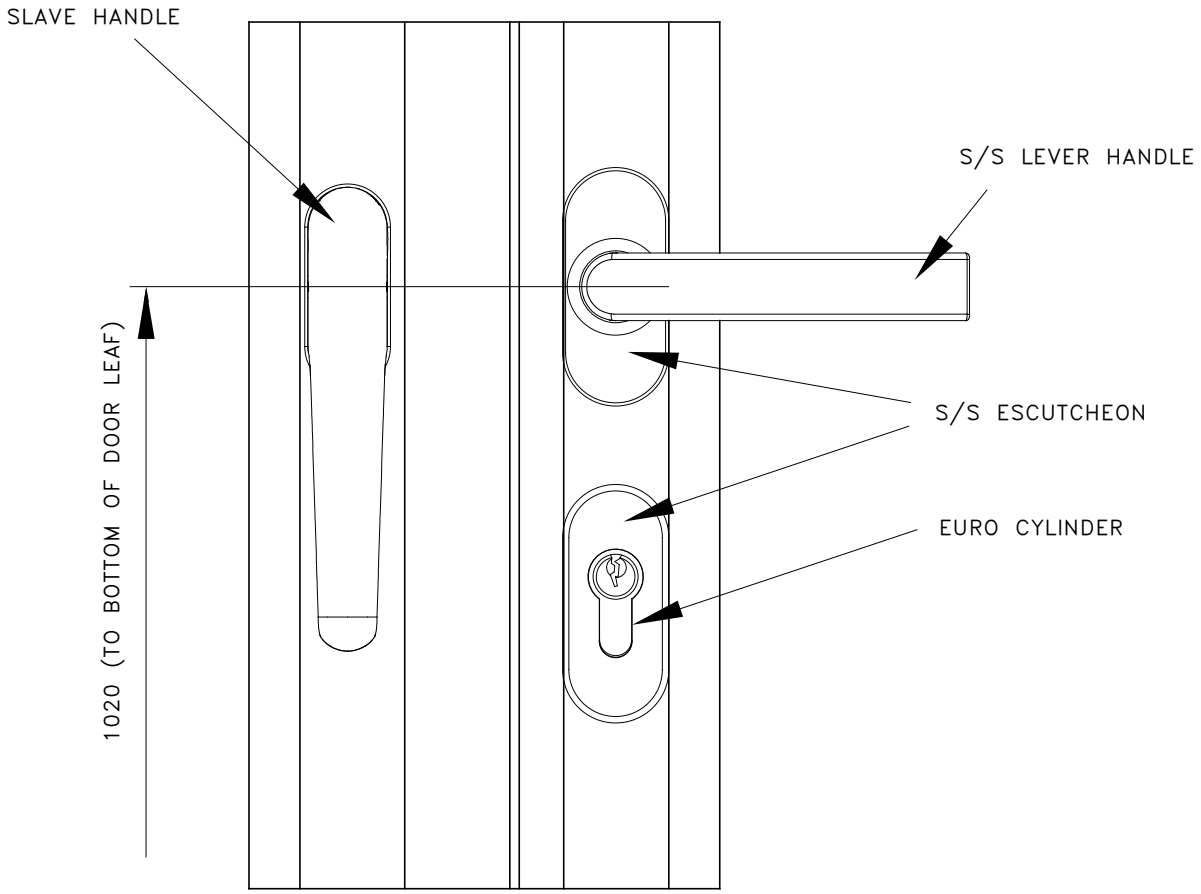
11 Locking mullion detail

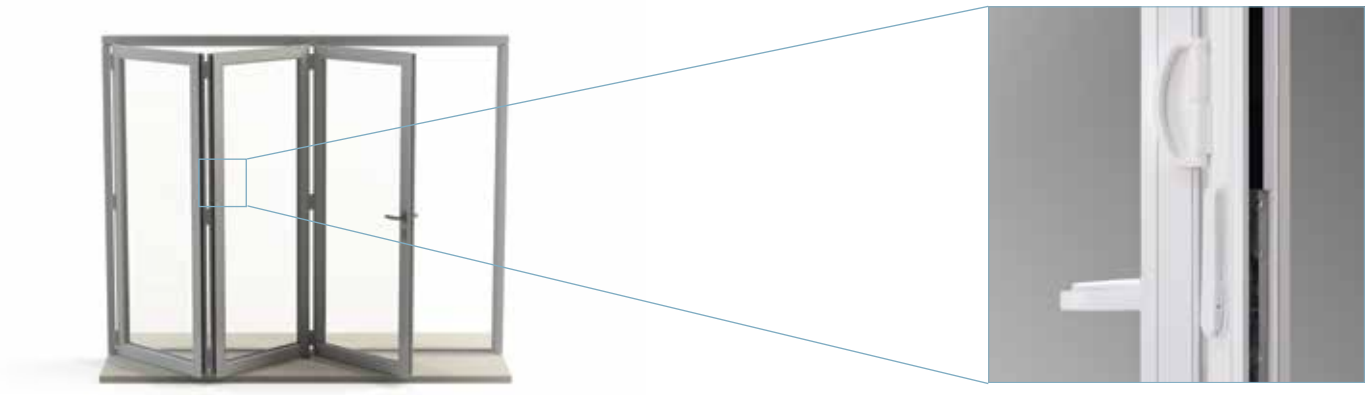


12 Standard Mullion Detail



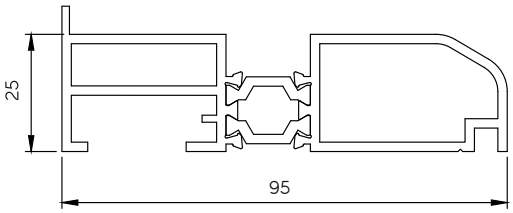
13 Locking slave handle detail



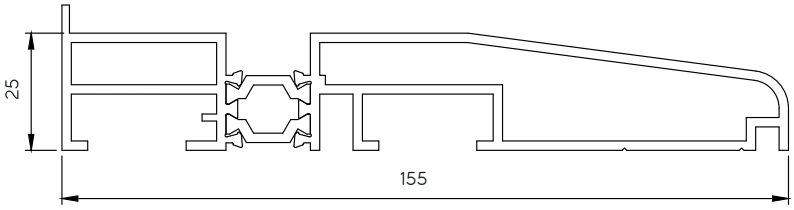


14 Cills

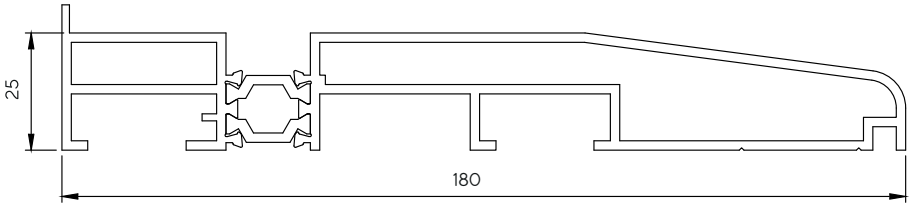
95mm Cill



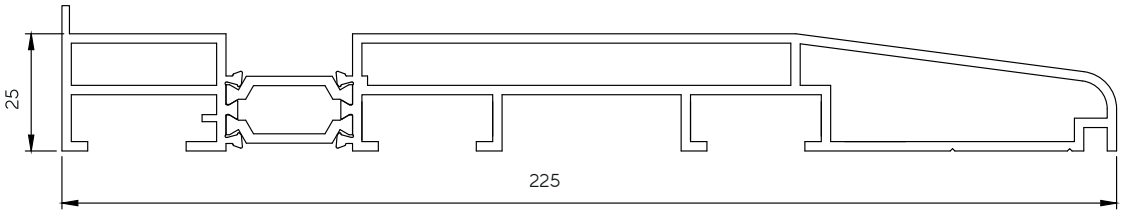
155mm Cill



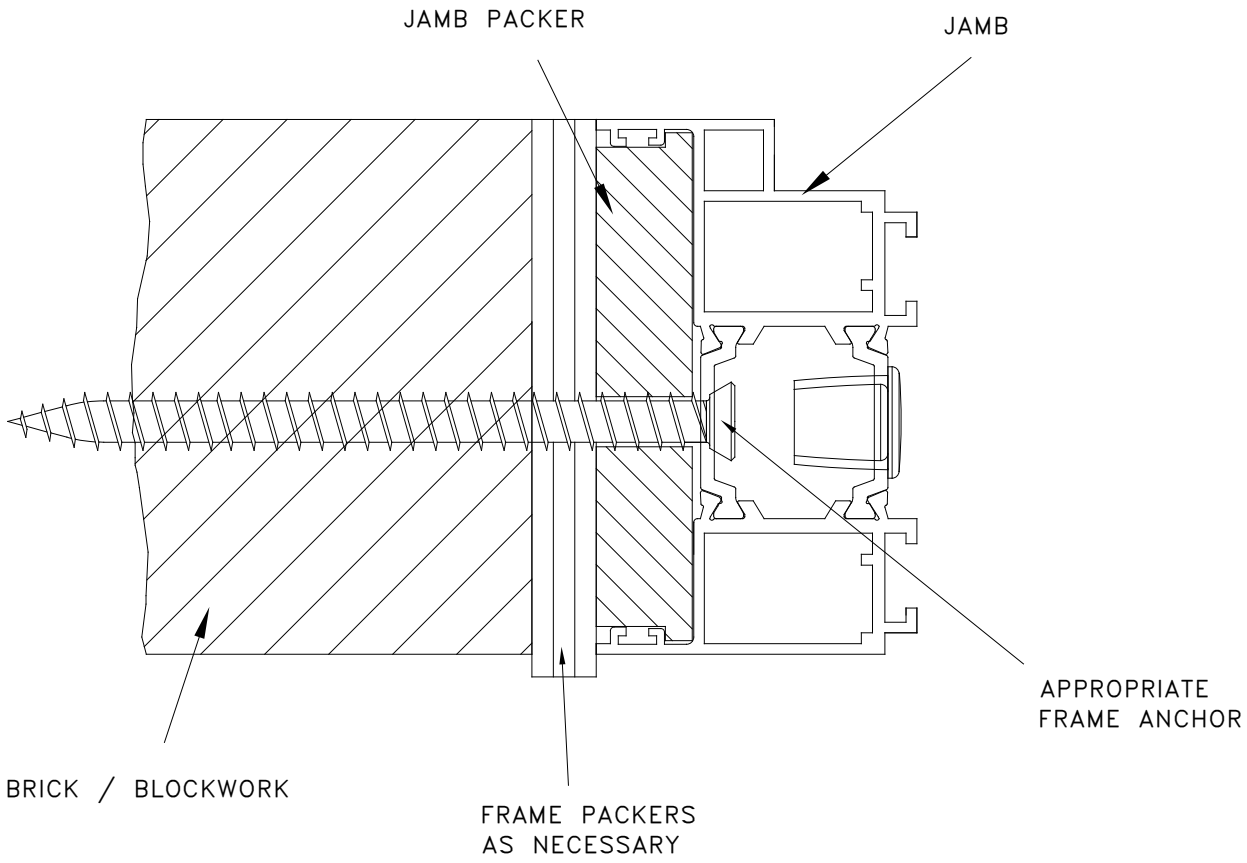
180mm Cill



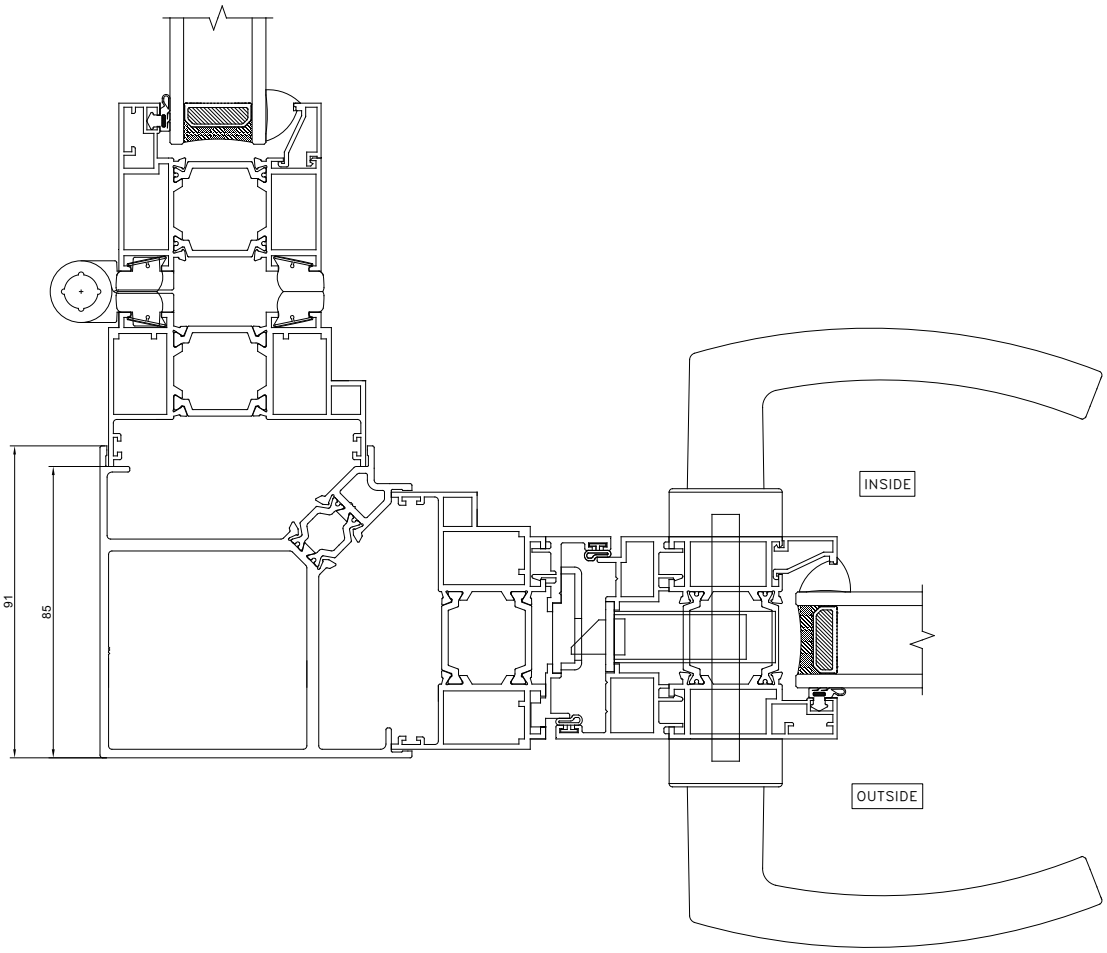
225mm Cill

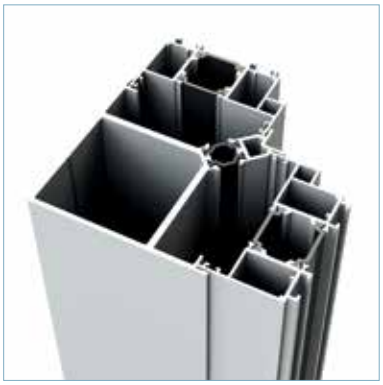


15 Jamb Fixing Detail

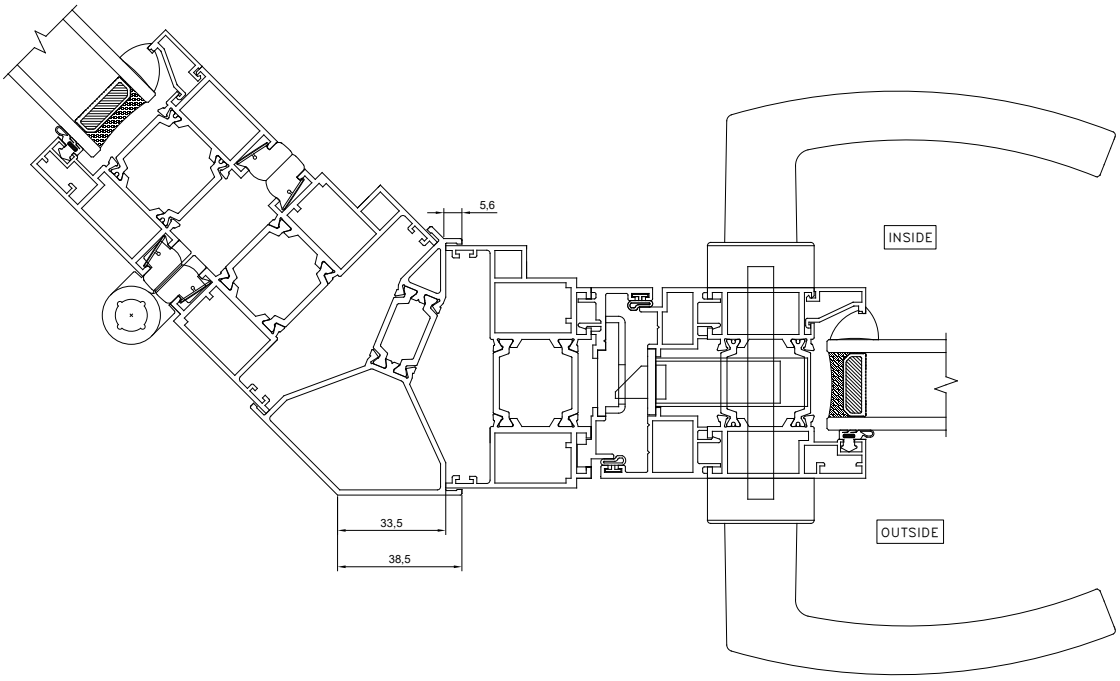


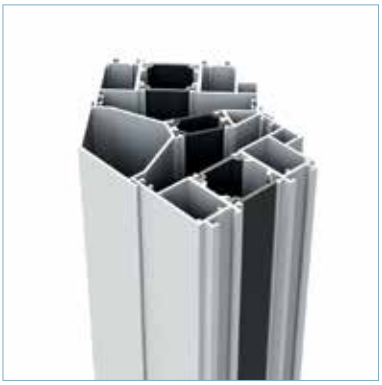
16 90° Fixed corner post





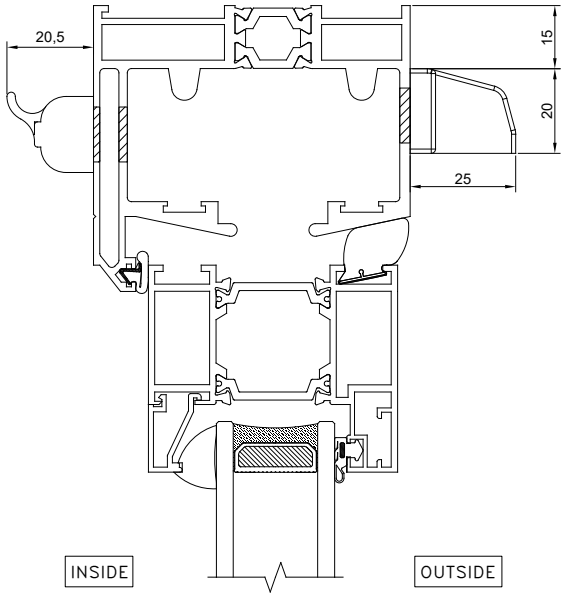
17 135° Fixed corner post



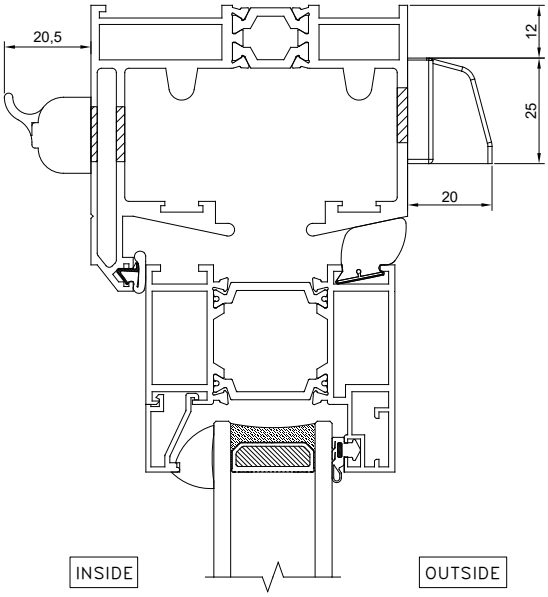


18a - 18b Trickle vents

20mm



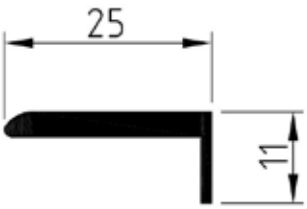
25mm



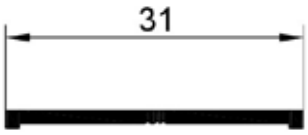
Internal view

External View

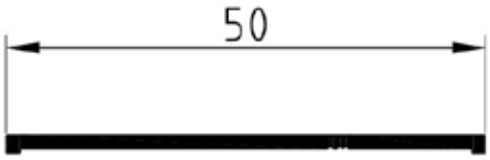
19 Trim options



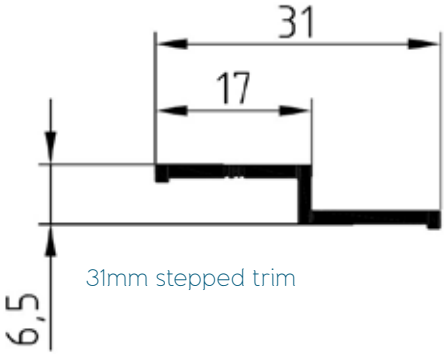
25mm trim



31mm flat trim

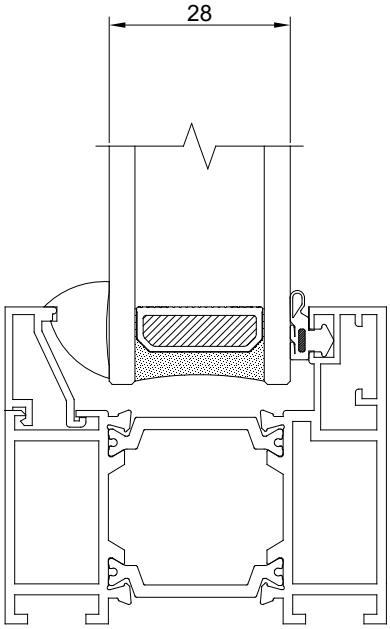


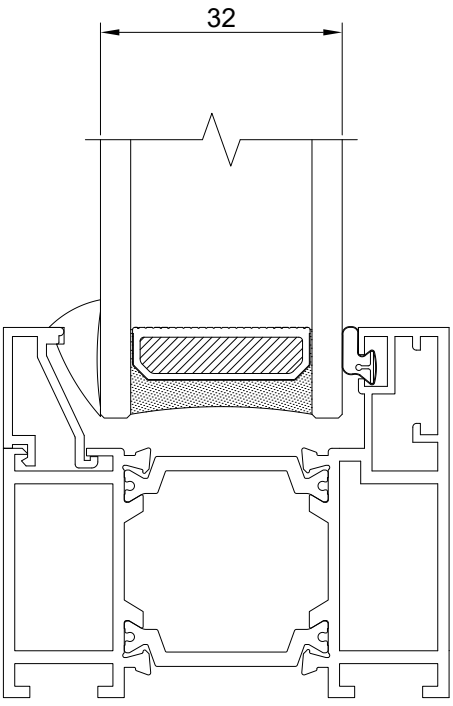
50mm flat trim



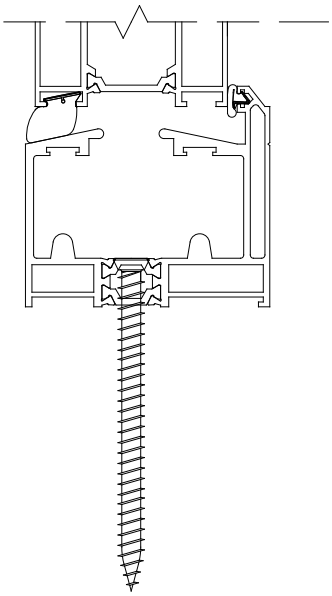
31mm stepped trim

22 Glazing Option

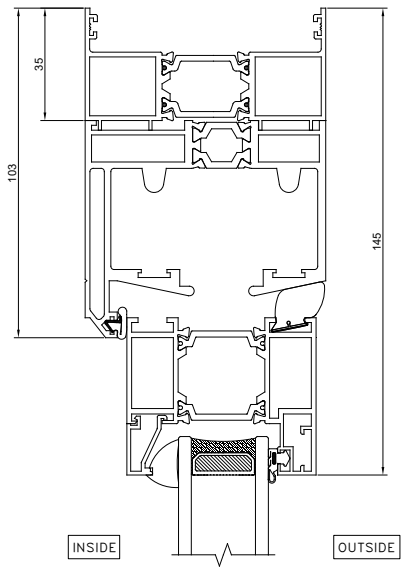


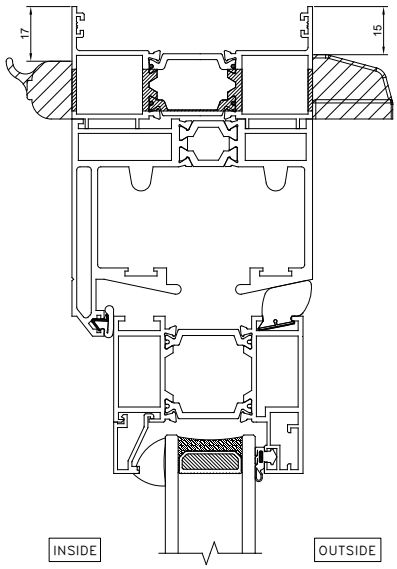


20 Bottom fixing detail



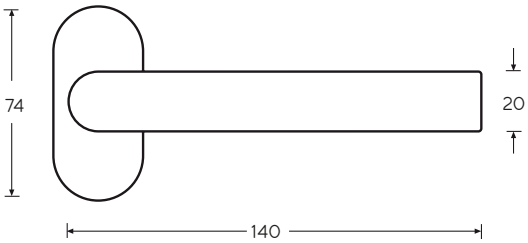
21a-21b Frame Extender

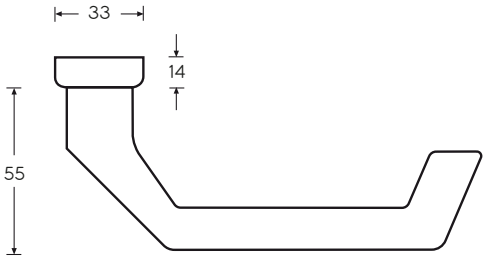




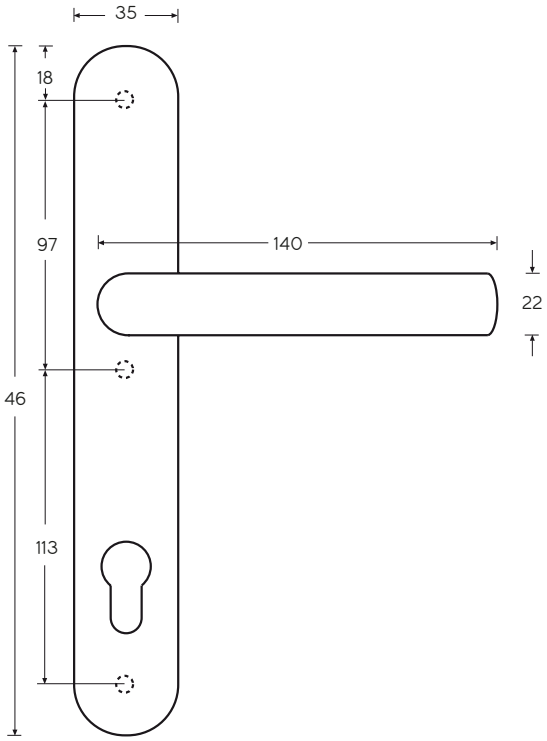
Handles

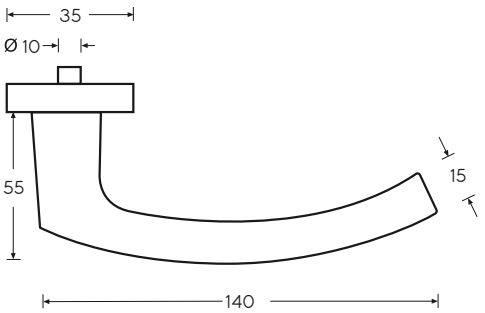
Hafi handle 251/280



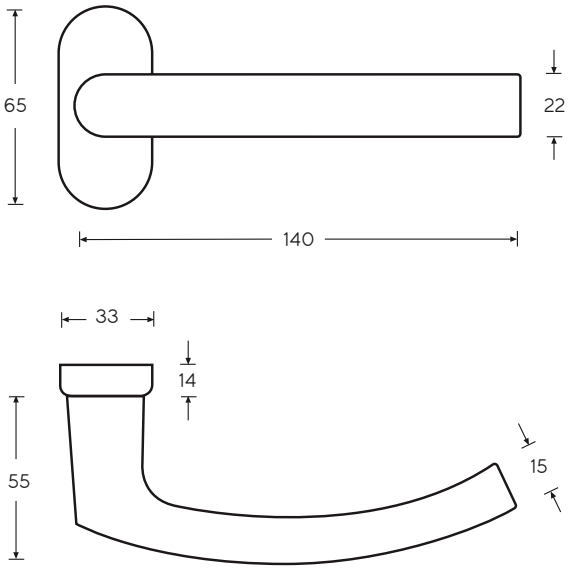


Hafi handle 253/270

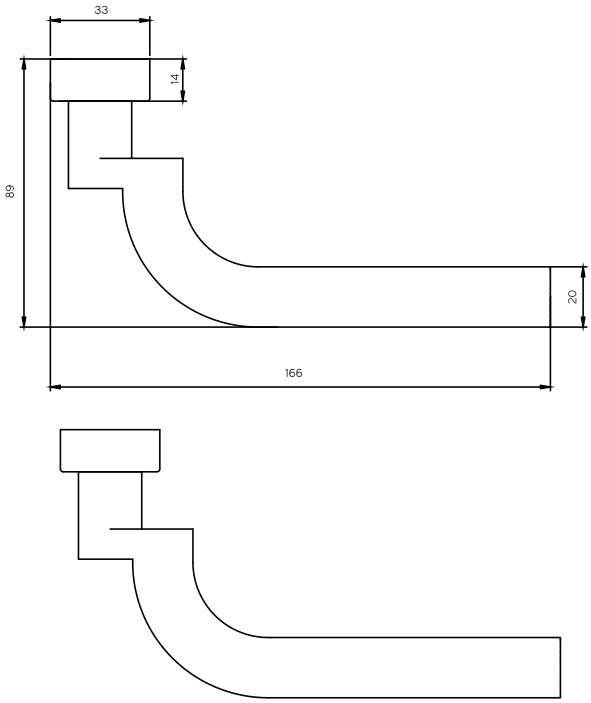




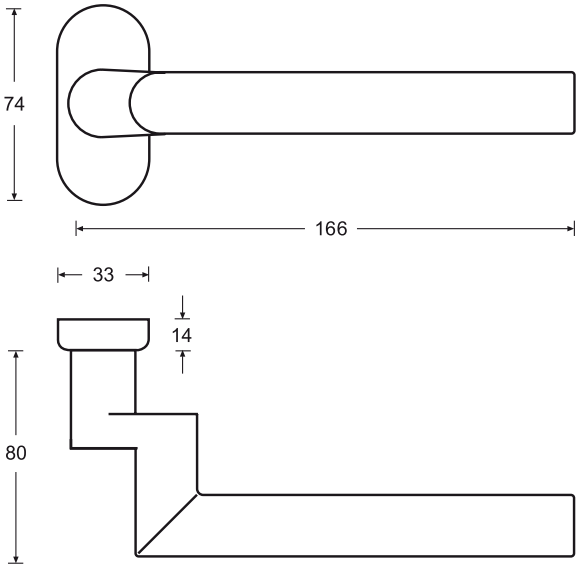
Hafi handle 253/280



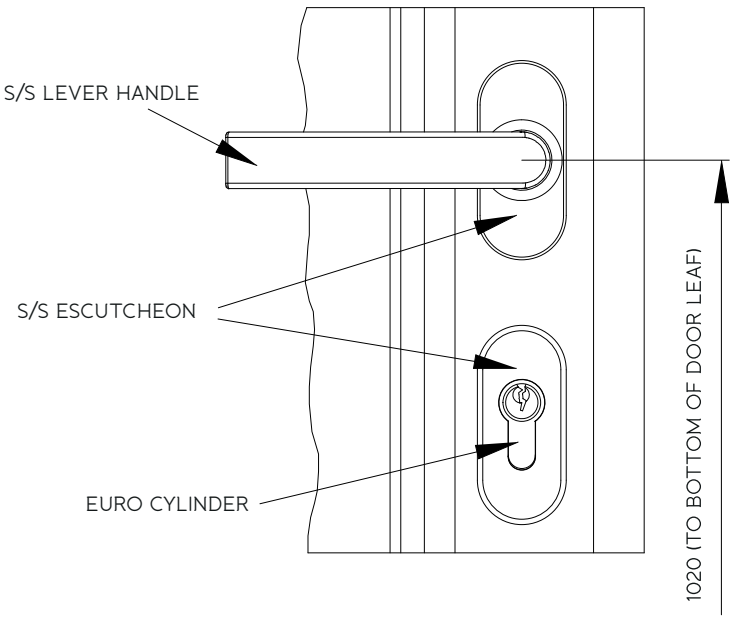
Hafi handle 301/280

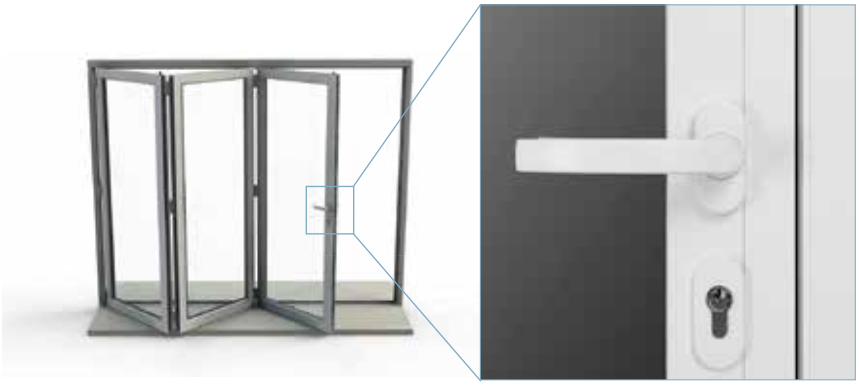


Hafi handle 303/280

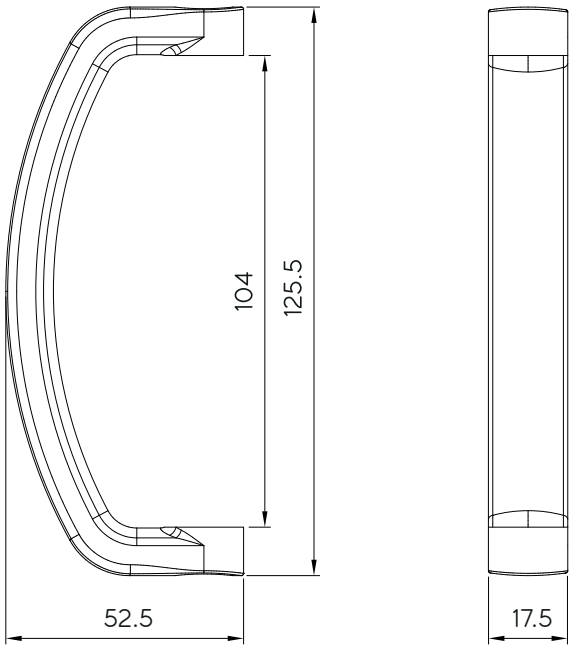


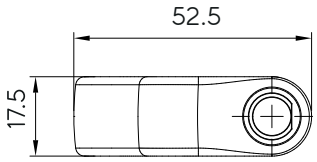
Hafi handle detail



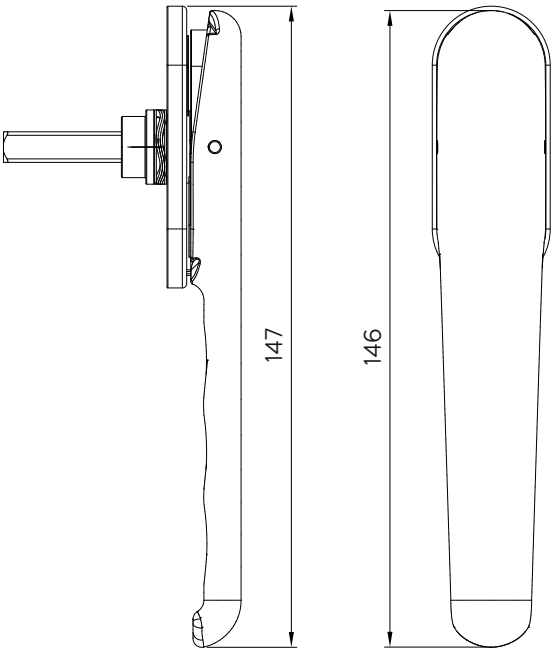


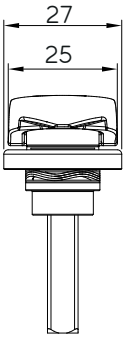
D-handle





Slave handle





Gaskets

Double Glazing Gaskets 28mm

1. Glazing Rebate E3434

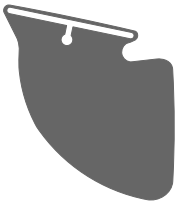
2. Glazing Wedge W474

3. Sash Side QL9135*

4. Locking Rebate QL4636

5. Track Rebate QL9257

6. Sash Top and Bottom QL9141*



Glazing Rebate E-Gaskets	G00004 - Black G00005 - White G00066 - Grey G00067 - Light Oak G00071- Light Grey G00072 - Bronze G00073 - Chestnut G00074 - 7015M
Glazing Wedge W474 24mm, 28mm and 32mm	G00040 - Black G00041 - White G00061 - Grey G00068 - 7015 G00075 - Light Grey G00076 - Light Oak G00077 - Bronze G00078 - Chestnut G00138 - Black
Sash Side QL 9135 (2.5m)	G00009 - G00015 G00100 G00104 G00134
Sash Side QL 9135 (4m)	G00016-G00021 G00052 G00111
Locking Rebate QL4636	G00008
Track Rebate QL9257	G00029-G00035 G00099
Sash Top and Bottom QL9141	G00022-G00028 G00098 G00133
Glazing Rebate QL4627	G00007

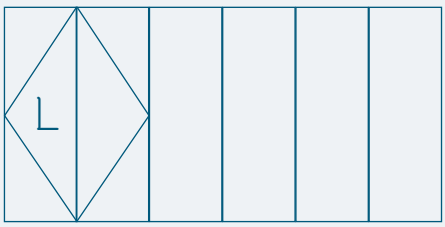
**Available in colours mentioned on page 7*

All Configurations

Code example

5+1 – OI – L

C A B D



A The second number indicates where the lead/ access door is. As 1 is the second number, it means that is where the lead door is. If it had been 1+5, the last pane on the 5 door would be the lead door.

B OI = Open-in. OO = Open-out.

C The 5 is the number of doors folding the opposite way.

D L or R indicates which way the set with the lead door fold as viewed from outside. I.E - 5+1 – OI – L means the 1 door is folding to the left.

1 Door Configuration

0+1 – OO – L

Other variations: 1+0 – OI – L
0+1 – OI – R
0+1 – OO - R

2 Door Configurations

2+0 – OO – L

Other variations: 2+0 – OI – L
2+0 – OI – R
2+0 – OO – R

1+1 – OO – L

Other variations: 1+1 – OI – L
1+1 – OI – R
1+1 – OO – R

3 Door Configurations

3+0 – OO – L

Other variations: 3+0 – OI – L
3+0 – OI – R
3+0 – OO – R

2+1 – OO – L

Other variations: 2+1 – OI – L
2+1 – OI – R
2+1 – OO – R

4 Door Configurations

4+0 – OO – L

Other variations: 4+0 – OI – L
4+0 – OI – R
4+0 – OO – R

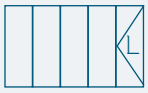
3+1 – OO – L

Other variations: 3+1 – OI – L
3+1 – OI – R
3+1 – OO – R

1+3 – OO – L

Other variations: 1+3 – OI – L
1+3 – OI – R
1+3 – OO – R

5 Door Configurations



5+0 – OO – L

Other variations: 5+0 – OI – L
5+0 – OI – R
5+0 – OO – R

2+3 – OO – L

Other variations: 2+3 – OI – L
2+3 – OI – R
2+3 – OO – R

4+1 – OO – L

Other variations: 4+1 – OI – L
4+1 – OI – R
4+1 – OO – R

6 Door Configurations

6+0 – OO – L

Other variations: 6+0 – OI – L
6+0 – OI – R
6+0 – OO – R

5+1 – OO – L

Other variations: 5+1 – OI – L
5+1 – OI – R
5+1 – OO – R

1+5 – OO – L

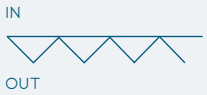
Other variations: 1+5 – OI – L
1+5 – OI – R
1+5 – OO – R

3+3 – OO – L

Other variations: 3+3 – OI – L
3+3 – OI – R
3+3 – OO – R

All Configurations

7 Door Configurations



7+0 – OO – L

Other variations: 7+0 – OI – L
7+0 – OI – R
7+0 – OO – R

6+1 – OO – L

Other variations: 6+1 – OI – L
6+1 – OI – R
6+1 – OO – R

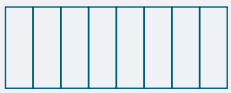
2+5 – OO – L

Other variations: 2+5 – OI – L
2+5 – OI – R
2+5 – OO – R

4+3 – OO – L

Other variations: 4+3 – OI – L
4+3 – OI – R
4+3 – OO – R

8 Door Configurations



8+0 – OO – L

Other variations: 8+0 – OI – L
8+0 – OI – R
8+0 – OO – R

7+1 – OO – L

Other variations: 7+1 – OI – L
7+1 – OI – R
7+1 – OO – R

1+7 – OO – L

Other variations: 1+7 – OI – L
1+7 – OI – R
1+7 – OO – R

5+3 – OO – L

Other variations: 5+3 – OI – L
5+3 – OI – R
5+3 – OO – R

3+5 – OO – L

Other variations: 3+5 – OI – L
3+5 – OI – R
3+5 – OO – R

9 Door Configurations

9+0 – OO – L

Other variations: 9+0 – OI – L
9+0 – OI – R
9+0 – OO – R

8+1 – OO – L

Other variations: 8+1 – OI – L
8+1 – OI – R
8+1 – OO – R

2+7 – OO – L

Other variations: 2+7 – OI – L
2+7 – OI – R
2+7 – OO – R

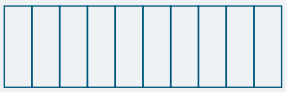
6+3 – OO – L

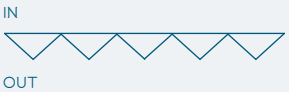
Other variations: 6+3 – OI – L
6+3 – OI – R
6+3 – OO – R

4+5 – OO – L

Other variations: 4+5 – OI – L
4+5 – OI – R
4+5 – OO – R

10 Door Configurations



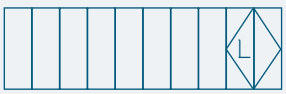


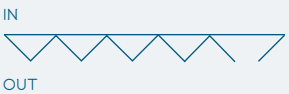
10+0 – OO – L

Other variations: 10+0 – OI – L
10+0 – OI – R
10+0 – OO – R

9+1 – OO – L

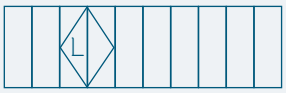
Other variations: 9+1 – OI – L
9+1 – OI – R
9+1 – OO – R





1+9 – OO – L

Other variations: 1+9 – OI – L
1+9 – OI – R
1+9 – OO – R

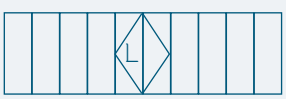


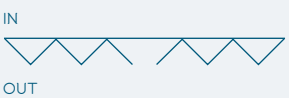
7+3 – OO – L

Other variations: 7+3 – OI – L
7+3 – OI – R
7+3 – OO – R

3+7 – OO – L

Other variations: 3+7 – OI – L
3+7 – OI – R
3+7 – OO – R



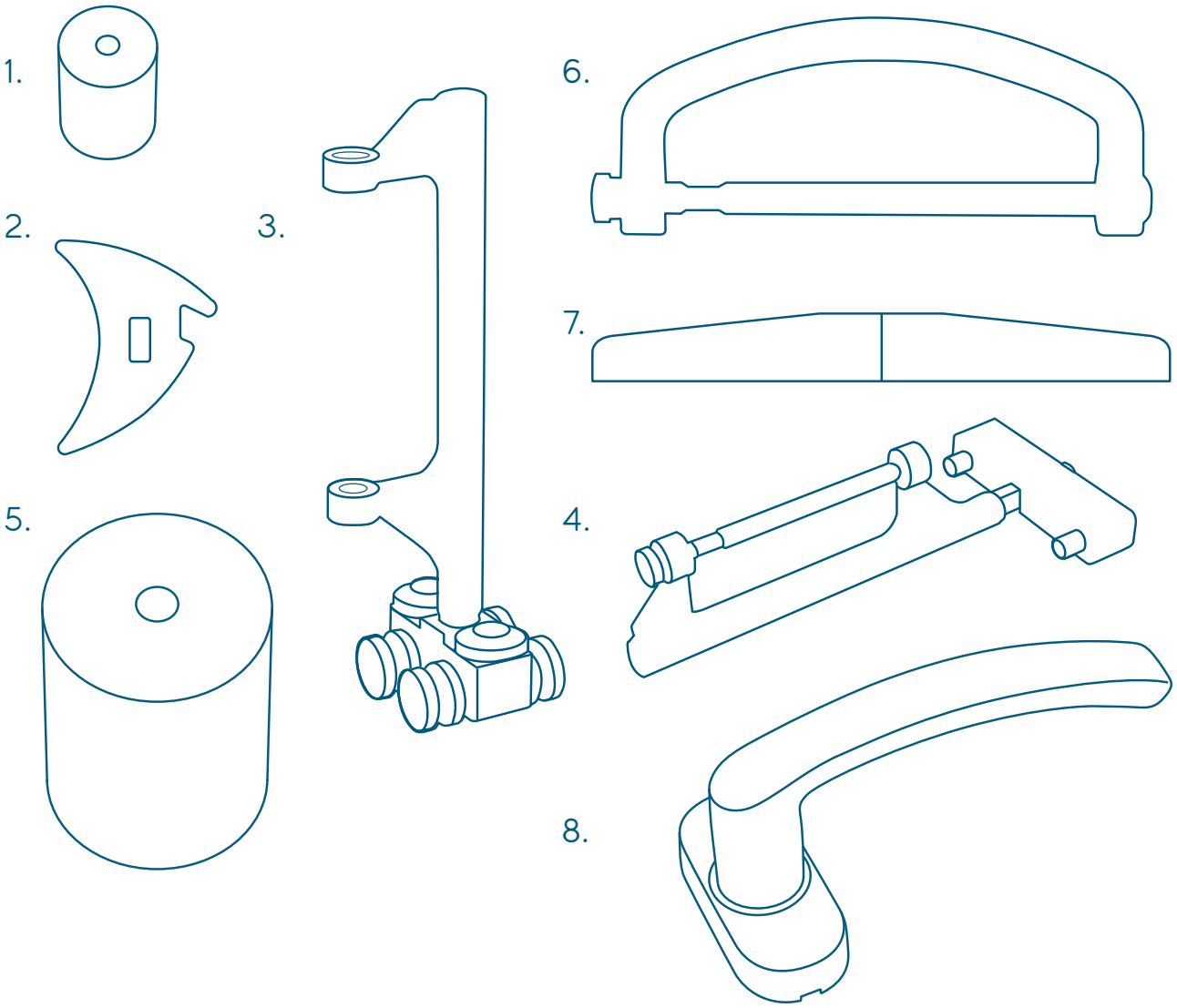


5+5 – OO – L

Other variations: 5+5 – OI – L
5+5 – OI – R
5+5 – OO – R

Bi-fold Door Installation Guide

Components box



Contents

- 1. Fixing plugs
- 2. Wedge gasket
- 3. Bottom trolley
- 4. Top trolley
- 5. Magnetic keep
  (x 2 if door height is greater than 2499mm)
- 6. D-handle
- 6. D-handle
- 7. Cill end cap
- 8. Long back plate lever/lever handle

1. Tools list

1.1. Fixing kit to install up to 8 door leaves, including a selection of packers 1mm-6mm, 35 4mm x 40mm glazing packers and screws.

- 25mm self-tapping screws
- Appropriate fixings for lintel
- Mixed selection of frame packers
- 4mm glazing packers (min 32mm wide)
- Appropriate drill bits for drilling lintel and jamb packers
- 13mm HSS or blade type drill bit
- Long series 3.5mm drill bit
- SDS drill with appropriate size drill bits for your preferred frame fixings
- Battery screwdriver
- Saw for cutting aluminium cill
- Long straight edge
- Long spirit level
- String line
- Measuring staff
- Phillips 2, Pozi 2 and large flat head screw drivers
- 4mm Allen key
- 2.5mm Allen key
- 3mm Allen key
- Flat bar
- Plastic/ rubber hammer
- Glazing paddle
- Gasket sheers
- Foam gun
- Sealant and gun
- T30 torx key / small 1/4 ratchet with T30 bit

Note

If it is necessary to pack the outer frame by more than 6mm, a solid plastic or hardwood packer should be used.

2. Preparation

2.1. Measure the opening and check it fits with all measurements on your Origin paperwork.

2.2. Carefully unpack the tracks and jambs.

2.3. On the hinge jamb, place a jamb packer level with each hinge. Position the jamb packers within 150mm of corner and 600mm apart on centre.

Repeat this for locking jamb.

2.4 On the locking jamb, place a jamb packer 50mm down and 50mm up from the top and bottom of the jamb.

2.5. Secure jamb packers by inserting a screw either side, see FIG 2A.

2.6. Spaced at a maximum of 500mm apart, place the correct frame packers along the length of the opening, creating a level, well supported platform for the track/cill to sit.

FIG 2A

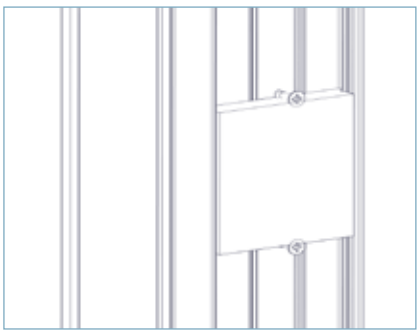
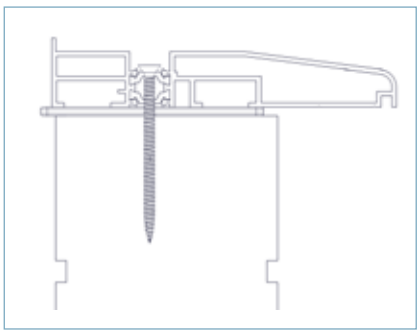


FIG 3A



3. Cill (if no cill, move to step 4.)

3.1. Cut the cill to the correct length to fit the opening with or without horns.

3.2. Using an appropriate sealant, fill the ends of the cill section and install the end caps.

3.3. Place the cill on the prepared frame packers in the opening.

3.4. Recheck for level, adjust if necessary.

NOTE: Move on to step 4 if the width is under 3600mm.

3.5. Using a string line, make sure the cill does not have a bow.

3.6. Fix the cill through the thermal break every 1000mm (shown in FIG 3A) using your preferred fixings. Fill each hole with suitable sealant before inserting the fixing.

3.7. Recheck for level, adjust if necessary.

Note

The cill should be positioned with the back edge overhanging the building cavity; the distance specified by the local authority building regulations.

4. Outer frame

4.1. Joining tracks (if applicable).

4.1.1. All joints in the track are pre-made in the factory and separated for transport. When joints are pre-made, use a suitable clear sealant to seal the joint.

4.2. Carefully remove the gasket from each end of the top and bottom track by approximately 200mm.

4.3. Where possible, lay out the tracks and jambs in the correct positions with all labels facing up, being careful not to scratch the powder coat.

4.4. Position the jambs into the tracks using the connectors provided as shown in FIG 4A.

NOTE: For mobility thresholds, after completing step 4.4, secure the jambs to the threshold using two of the supplied 3.5mm screws. Seal the mating faces with a suitable sealant.

4.5. Using a rubber mallet, gently tap the jambs in to the track as shown in FIG 4B.

NOTE: If more than a tap is needed, the connectors are not aligned with the tracks.

4.6. If applicable, using a suitable sealant, seal along the two ends and back lip of the cill where the bottom track will sit.

4.7. Install the outer frame and insert frame packers above the top track at each end, compressing tracks, jambs and cill (if fitted), together closing all unwanted gaps and temporarily holding the frame in position as shown in FIG 4C.

4.8. Make sure the bottom track is pushed up against the lip at the back of the cill (if fitted) and is central in the opening.

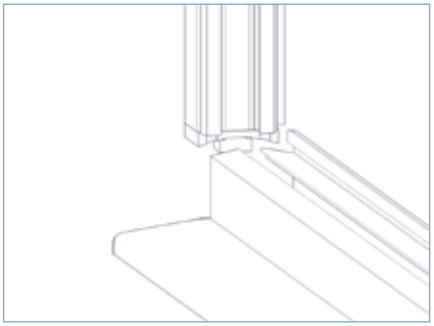


FIG 4A

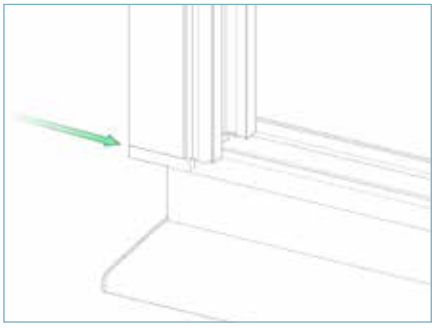


FIG 4B

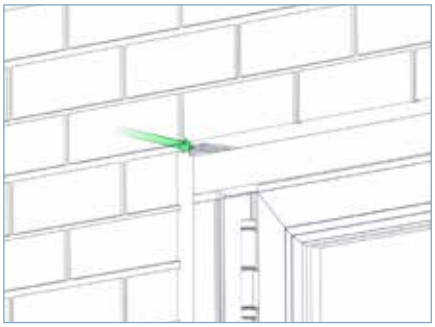


FIG 4C

5. Fixing the outer frame

5.1. Fix the bottom track and cill as shown in FIG 5A. Position the fixings approximately 100mm in from each end of the track and one fixing every door width along the length. If there is no cill, fix the bottom track to the brick/ block below, making sure it is straight and remains level

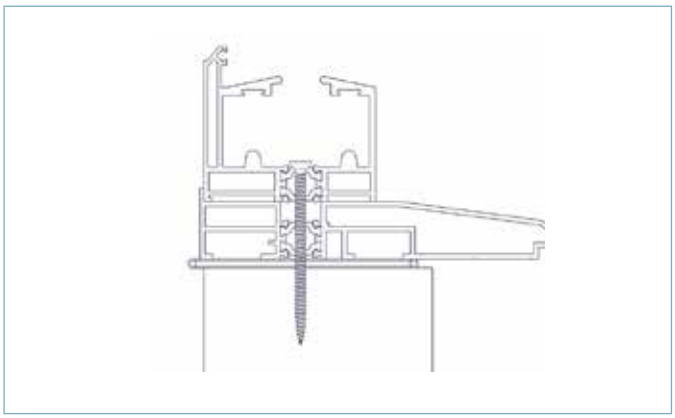


FIG 5A

5.2. Using a 13mm drill bit, make a hole in the outer layer of polyamide, level with the centre of each jamb packer. This will allow installation of the fixing plug as shown in FIG 5B.

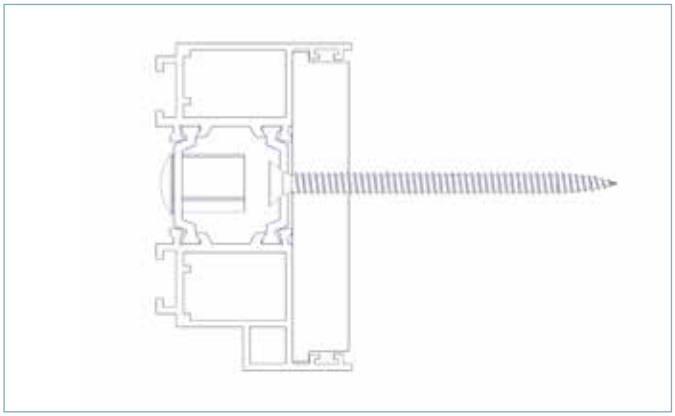


FIG 5B

5.3. Using the correct size HSS bit for your preferred fixing, drill through each jamb packer. To protect your drill bit, place a putty knife (or similar) between the jamb packer and brick.

5.4. Align the bottom of the jambs with the end of the bottom track. Using frame packers between the jamb packers and the wall, level out the jambs in all directions and fix into position with your preferred fixings as shown in FIG 5C.

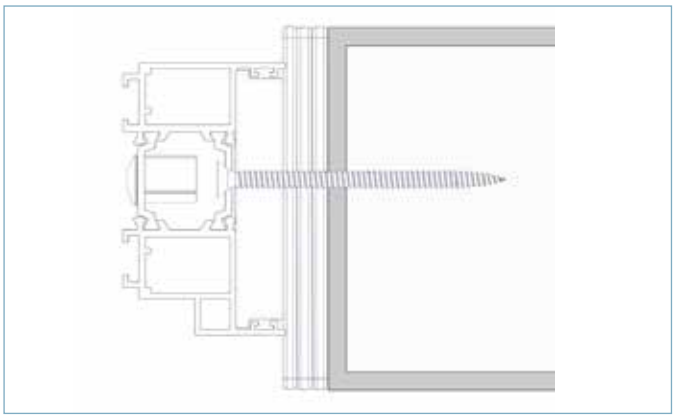


FIG 5C

5. Fixing the outer frame continued

5.5. Align the end of the top track with the top of the jamb as shown in FIG 5D.

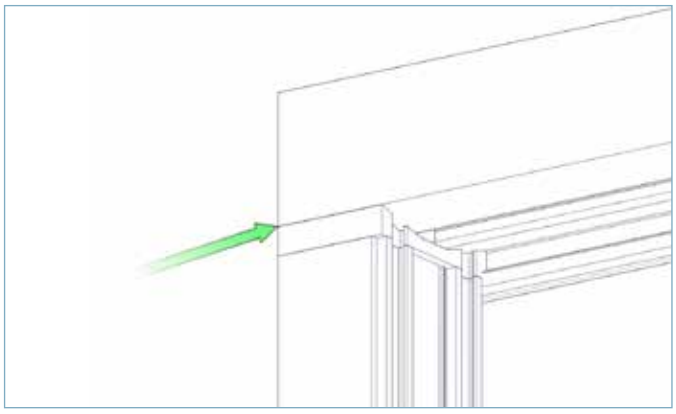


FIG 5D

5.6. Install a fixing in the top track approximately 100mm in from the jamb as shown in FIG 5E, being careful not to lift the track from the top of the jamb when the fixing is tightened.

5.7. Using the string line and pinch rod or measuring staff, make sure the track does not bow inside to out, or up and down, as shown in FIG 5F.

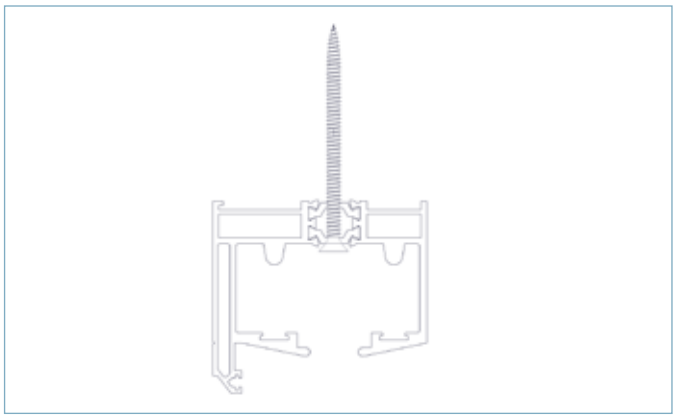


FIG 5E

5.8. Install the remaining fixings into the top track in line with the bottom track fittings, being careful not to bow or twist the track.

5.9. Trim and reinstall the track gasket.

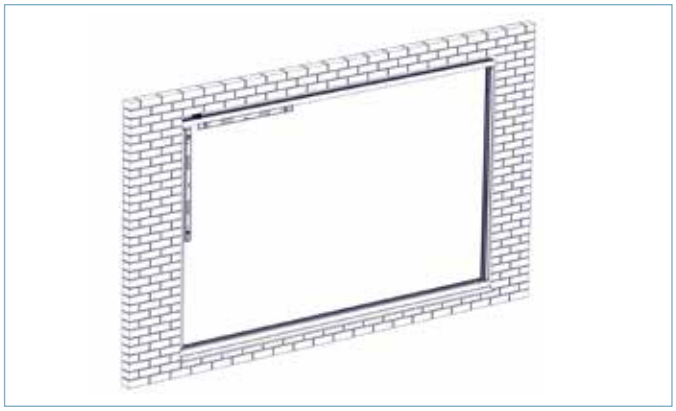


FIG 5F

6. Top and bottom trolley

6.1. Remove the bottom carriage and trolley assembly from its packaging, and using a 4mm frame packer, check the ride height is set correctly as shown in FIG 6A.

6.2. Place the bottom carriage and trolley assembly into the bottom track as shown in FIG 6B. The trolley should point to the outside if the doors are open-out, and inside if the doors open-in. Repeat this process until all bottom carriage assemblies have been installed.

6.3. Install all top trolley guide wheels and move down the track to the opposite end. The thicker side of the wheel should be on top as shown in FIG 6C.

6.4. Insert the top trolley between two guide wheels and lower down to locate the pins into them from above, as shown in FIG 6D and 6E. Repeat this process until all top trolleys are installed.

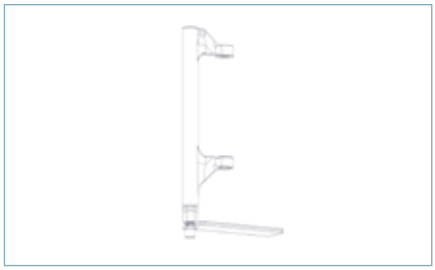


FIG 6A

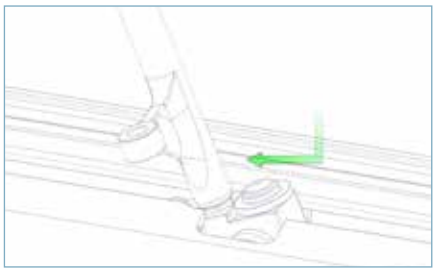


FIG 6B

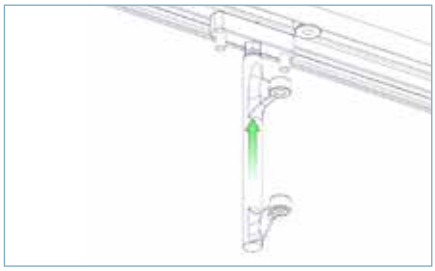


FIG 6D

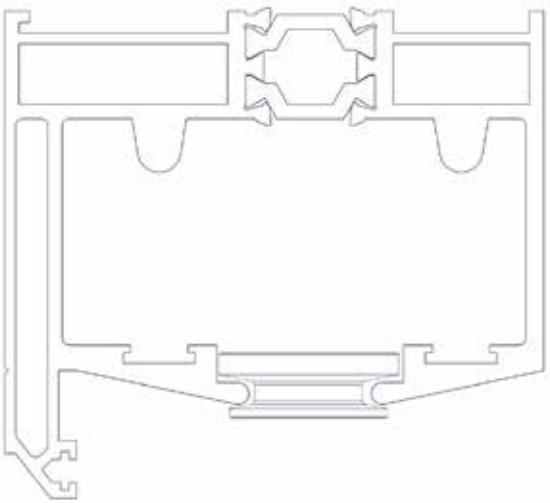


FIG 6C

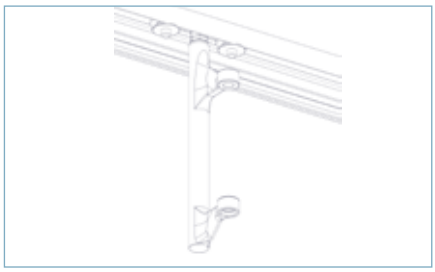


FIG 6E

7. Door leaves

7.1. Locate the trolley pins and bolts from the components bag.

7.2. Hang the first door on the hinge jamb as shown in FIG 7 A and B with the label at the top and facing out.

7.3. Hang the second door onto the hinges of the first door, again with the label at the top and facing out as shown in FIG 7C.

7.4. Close the two doors across the track and lock into place with the slave handle, being careful not to scratch the track as the doors cross it.

7.5. Hang the third door onto the centre hinge and insert a screwdriver through the top hinge; this will support the door whilst the trolleys are located as seen in FIG 7D.

7.6. With the third door completely open, locate the bottom trolley around the bottom hinge between the second and third doors.

7.7. Remove the screw and insert the trolley pin into the bottom trolley and hinge using a plastic hammer to gently tap the pin in fully, being careful to align the hinge and trolley as the pin goes through as shown in FIG 7E.

7.8. Reinstall the screw and tighten using a t30 Torx key.

7.9. Remove the screwdriver from the top hinge and locate the top trolley around the hinge.

7.10. Insert the second trolley pin bolt as described in points 7.8. and 7.9.

7.11. Repeat steps 7.1 to 7.12 until all door leaves are hung.

Note

When closing the master/ lead door for the first time, ensure that contact with the locking jamb or stile does not occur. If contact occurs, adjust the doors as described in section 14.

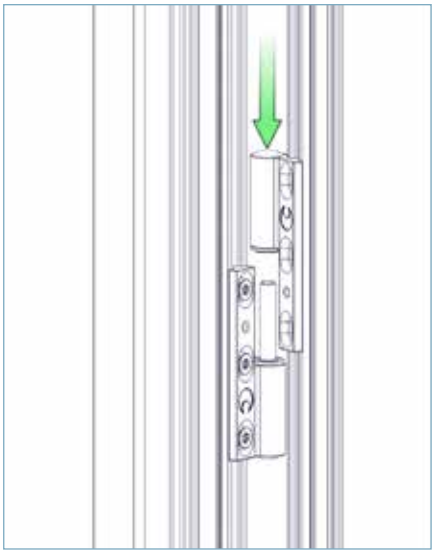


FIG 7A

FIG 7B

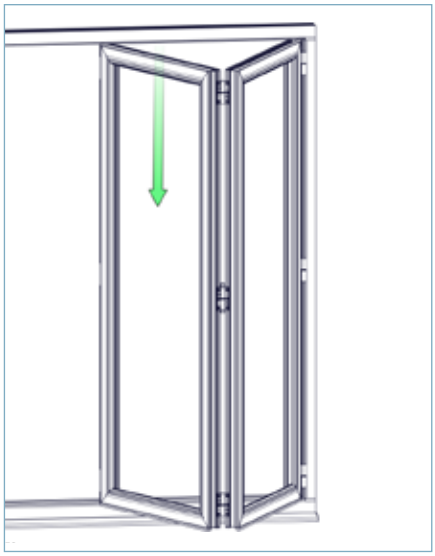


FIG 7C

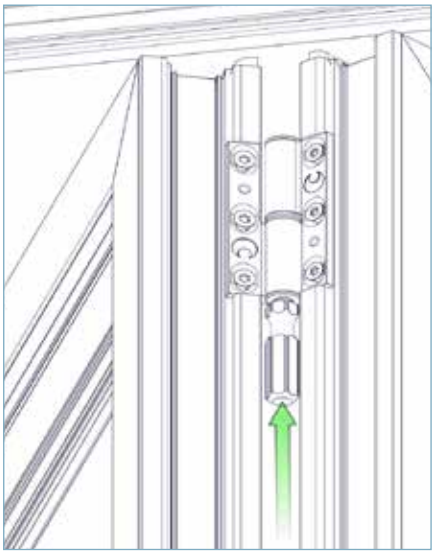


FIG 7D

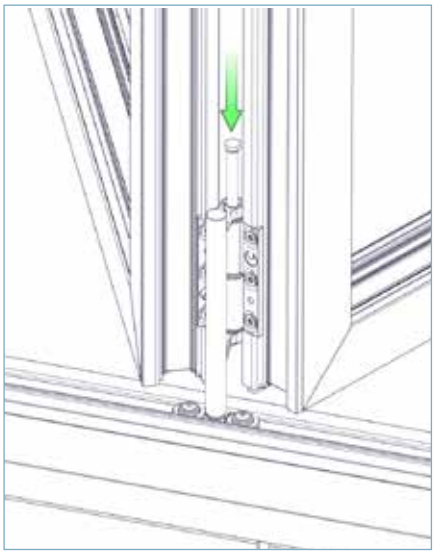


FIG 7E

8. False mullion

(even number of doors moving in the same direction only)

- **8.1.** Remove the centre hinge from the mullion.
- **8.2.** With the last door at 90° to the tracks, locate the top and bottom trolleys around the hinges.
- **8.3.** Position the mullion into the tracks and slide along to mate with the hinges and trolleys as shown in FIG 8A.
- **8.4.** Insert both top and bottom trolley pins as described in the previous section.
- **8.5.** Replace the centre hinge and screws being careful not to cross thread the screws.

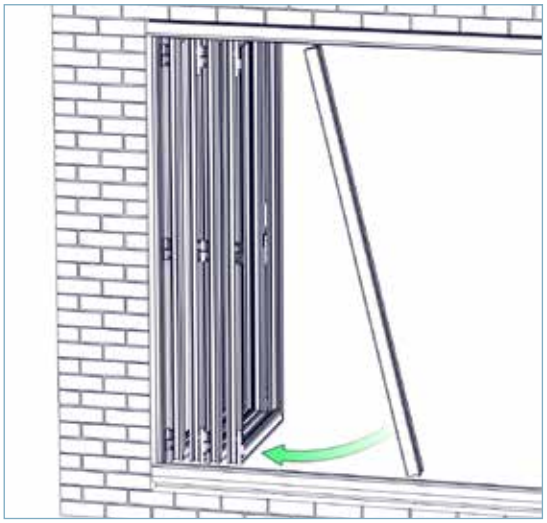


FIG 8A

9. Handles

D-handles
(open-out only)

9.1. Position the D-handle over the centre hinge above the slave handle.

9.2. Fix the handle top and bottom using the D-handle fixings. These may need a gentle tap to locate the thread.

D-handle

Handles

Long Back Plate Lever/ Lever Handles

9.3. Remove the screws from the lever handle, allowing the two halves to be separated.

9.4. Insert the spindle and a return spring (if supplied) into the outer part of the handle. (The outer handle will have the thread for the handle screws).

9.5. Making sure the lever is across the glass, insert the spindle into the lock.

9.6. Locate the handle around the barrel and flush against the door.

9.7. Install the internal part of the handle and second return spring (if supplied), again with the lever across the glass.

NOTE: Always keep a hand on the external handle to prevent damage.

NOTE: It may be necessary to slacken the retaining screw on the barrel to help alignment. Always re tighten.

9.8. Install the two screws and carefully tighten with a hand screwdriver only.

Hafi Stainless Steel Handles
(separate handle and barrel)

9.9. Locate the handles and 4 no. 20mmxM5 screws from the components box.

9.10. Remove the escutcheons from both handles.

9.11. Insert the spindle into one lever and nip the grub screw using a 3mm Allen key.

9.12. Install the handle and spindle into the door with the lever across the glass.

9.13. Insert the 20mm x M5 screws and tighten using a Pozi 2 hand screwdriver only, being careful not to cross thread the screws.

9.14. Install the remaining lever onto the door and secure in place, as described in the previous step and nip the remaining grub screw.

9.15. Install both inner and outer escutcheons with the small cut out pointing down.

NOTE: It may be necessary to use a rubber mallet to gently tap the escutcheons fully into position.

10. Centre hinge

(open-in only)

10.1. Open the doors and locate the missing centre hinges.

10.2. Making sure the two halves of the top and bottom hinges are together, install the centre hinge, being careful not to cross thread the screws.

NOTE: All hinges will be found in the components box.

11. Glazing the doors

11.1. Close all doors and fully engage the locks.

11.2. Starting with the door next to the hinge jamb, remove the 4 glazing beads.

11.3. Place 2 no. 4mm packers (32mm wide minimum) in the bottom of the glazing chamber spaced approximately 50mm in from each corner at 90° to the door, as shown in FIG 11A.

11.4. Install the glass on to the packers, taking care not to pinch the gasket on the outside.

11.5. Insert another 4mm packer (32mm wide minimum) to the side of the glass diagonally opposite the toe and heel plate about 50mm up from the corner, making sure to support the inner and outer layers of the glass, as shown in FIG 11B.

11.6. Using a glazing paddle at the bottom, lift the glass and turn the packer which is diagonally opposite the toe and heel plate so it is in line with the glass, making sure inner and outer layers are supported, as shown in FIG 11B.

11.7. Remove the second packer from under the glass and insert into the side, at the top of the door diagonally opposite the first two packers, making sure inner and outer layers of glass are supported.

11.8. Using the glazing paddle, lever the door up and place a 4mm glazing packer (32mm wide minimum) between the top of the glass and the toe and heel plate, making sure both inner and outer layers of the glass are supported.

11.9. Reinstall all 4 glazing beads starting with the top and bottom.

11.10. Repeat steps 11.4 to 11.9 until all the glass is in place.

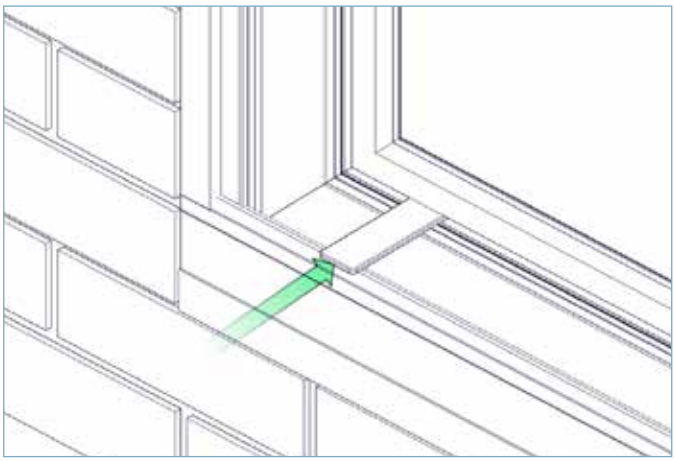


FIG 11A

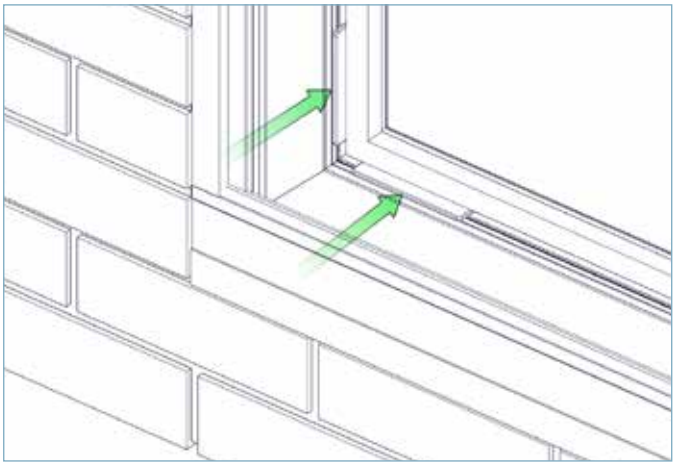


FIG 11B

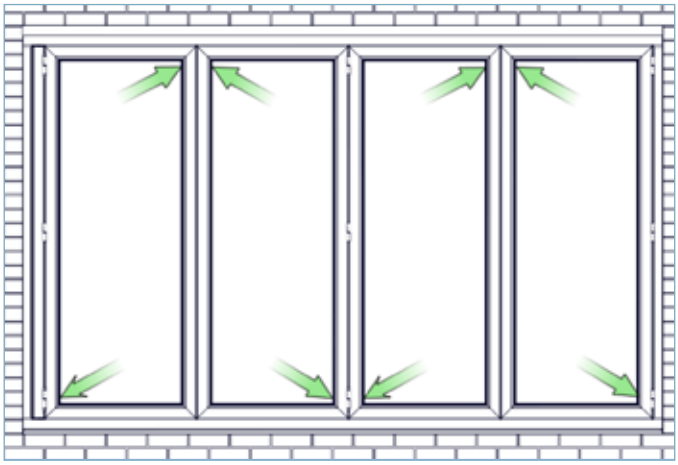


FIG 11C

Notes

The packer positions will always be set by the location of the toe and heel plate and will be opposite to the adjoining door, as shown in FIG 11C.

If the glass is not square or stepped, it may be necessary to use a thinner packer between the glass and toe and heel plate. These should always be a minimum of 32mm wide.

12. Installing the wedge gasket

12.1. Starting with the bottom bead, use the glazing paddle to gently lever the bead away from the glass and into the correct position whilst lifting the side beads.

12.2. Place the gasket between the glass and bead with the concave side against the glass.

12.3. Feed the gasket behind the side bead until it stops and then continue along the bottom bead compressing the gasket towards the start point.

12.4. Repeat steps 12.1 to 12.3 with the top bead.

12.5. Cut a slight angle on the end of the gasket and insert behind the side bead pushing up to meet the top gasket.

12.6. Continue to feed the gasket along the side bead, compressing towards the starting point.

12.7. Once the bottom is reached, cut the gasket approximately 5mm past the bottom gasket again with a slight angle to meet the bottom gasket.

12.8. Repeat steps 12.5 to 12.7 with the remaining side.

12.9. Repeat steps 12.1 to 12.8 with the remaining doors.

13. Toe and heel adjustment

13.1. If adjustment is needed, you will find a toe and heel device in the top of each door.

13.2. Open the doors so that you can get access to the toe and heel device at the top of the door. Using a 4mm Allen key, wind the bolt clockwise, causing the side of the door to rise.

13.3. Re-close the doors and check that they run parallel and evenly to the top and bottom tracks. If they do not, then repeat as necessary.

13.4. Once you have adjusted the doors, make sure that each toe and heel plate is tight to the glass in each door, this will prevent the doors from settling over time.

14. Adjustment

NOTE: All adjustment comes from the outer frame.

Tracks

14.1. To check the top and bottom tracks are parallel, open all the door leaves completely.

14.2. At this point, the pins in the centre of the top guide wheel should be fairly flush with the visible face of the guide wheel, as shown in FIG 14A. Move the doors along the track whilst monitoring the pins in the top guide wheels. If the top and bottom tracks are parallel, the visible pin should remain the same as at the start.

14.3. If the visible pin decreases at any point, the top track will need repacking to raise it up at these points.

14.4. If the visible pin increases at any point, the top track will need repacking to lower it at these points.

NOTE: The bottom track must be well supported and level for the description above to be correct.

Jambs

14.5. When the lead door is closed, there should be a visible gap of 4mm between itself and the jamb or locking style, adjust as follows if necessary.*

14.6. Remove the two centre fixings from one jamb.

14.7. Remove the top fixing from that jamb.

14.8. Repack the top of the jamb to give a 4mm gap between the edge of the lead door and jamb.

14.9. Replace the fixing in the top of the jamb.

14.10. Remove the bottom fixing from the jamb.

14.11. Repack the bottom of the jamb to give a 4mm gap between the edge of the lead door and jamb.

14.12. Replace the fixing in the bottom of the jamb.

14.13. Pack and replace the remaining two fixings, keeping the even 4mm gap.

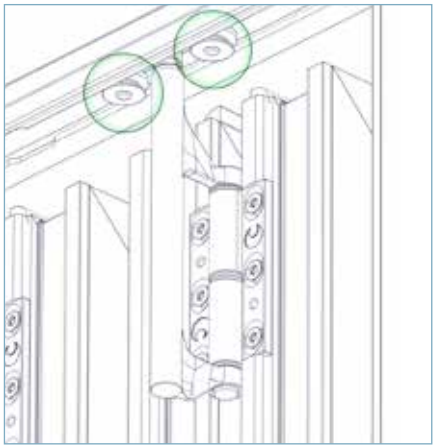


FIG 14A

FIG 14B

*This is temperature dependent. When installing in particularly hot weather, the gap along the slam and rebate may need reducing slightly. In particularly cold weather, this gap may require increasing slightly. This accounts for the minimal potential expansion and contraction with the aluminium profile.

15. Magnetic keep

15.1 Locate the magnetic keep from the components box.

15.2 Open the lead door almost 180° until the handle is approximately 10mm from the adjoining door and hold in position.

15.3 Position the complete magnetic keep up between the top of both doors and move along until it is wedged between them, as shown in FIG 15A.

15.4 Using a pencil, mark the magnet holder position on the lead door.

NOTE: If the door is above 2700mm, repeat steps 15.2 - 15.4 for the bottom magnetic keep.

15.5 Close the lead door.

15.6 Return the magnet holder to your mark and move up or down to position in the centre of the door profile. The centre of the hole should be 26mm down from the top of the door.

15.7 Using a 3.5mm drill bit, mark the door through the hole in the magnet holder, as shown in FIG15B.

15.8 Remove the holder and using the 3.5mm drill bit, drill a hole on the previously made mark.

15.9 Install the magnet and cover plate.

15.10 Place the two halves of the magnetic keep together.

15.11 Open the lead door against the adjoining door to locate the second half and mark with a pencil.

15.12 Fix in position as previously described.

15.13 Install cover plate.

FIG 15A

FIG 15B

16. Finishing touches

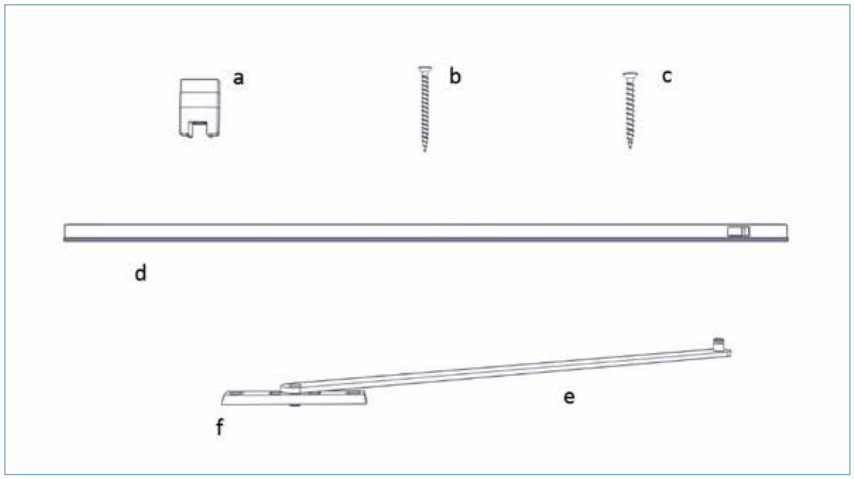
16.1 Insert fixing plugs provided into the 13mm holes drilled into the jambs.

16.2. Insert the hinge plugs into the top and bottom of all open hinges.

16.3. We recommend you use expanding foam to fill the gaps between the outer frame and building on all 4 sides.

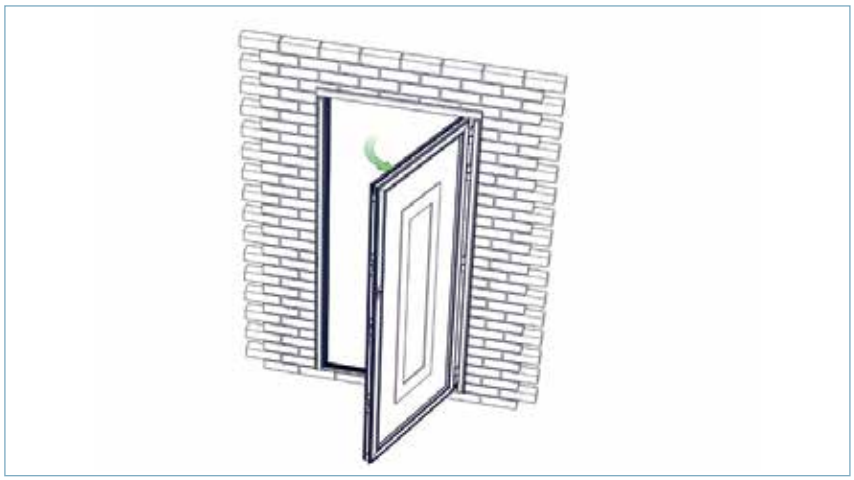
NOTE: The weather seal around the outer frame to the building is the responsibility of the installer. Sealant and trim kits are available from Origin.

Door Restrictor Installation Guide

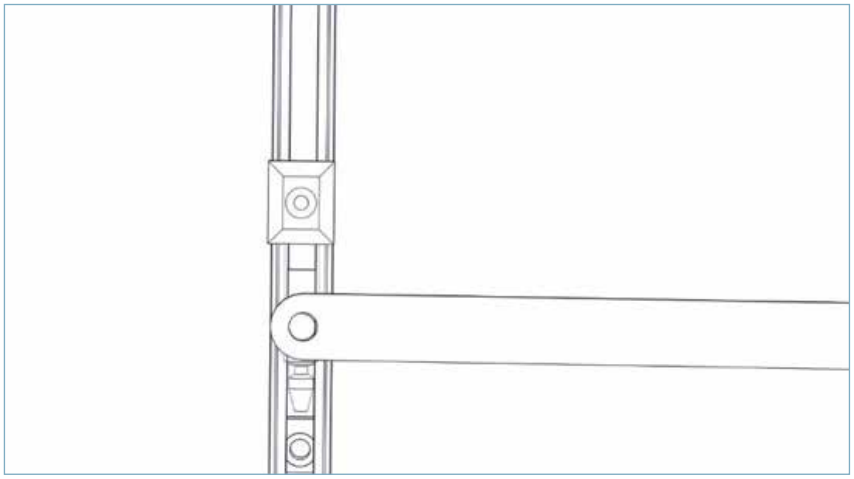


1. Check you have all of the parts

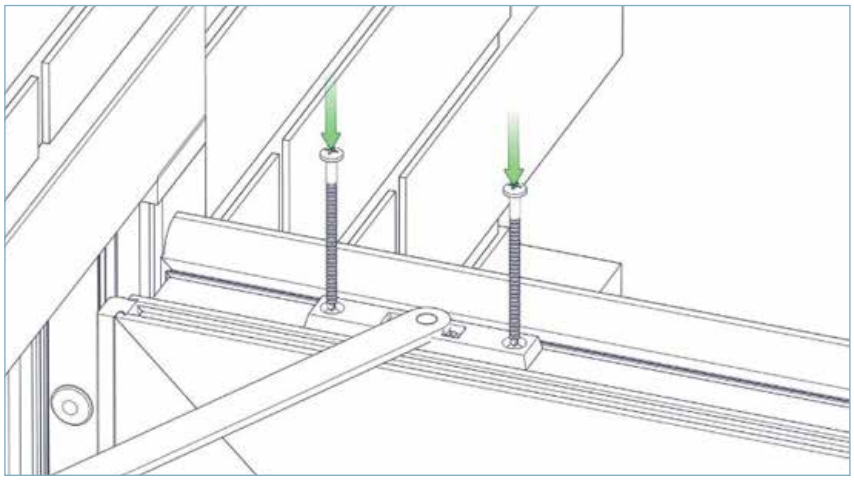
a. Restrictor Block (x5)
b. Screws (x4) 5.0 x 60mm
c. Screws (x3) 5.0 x 45mm
d. Slider Casing (x1)
e. Restrictor Bar (x1)
f. Sash Pivot (x1)



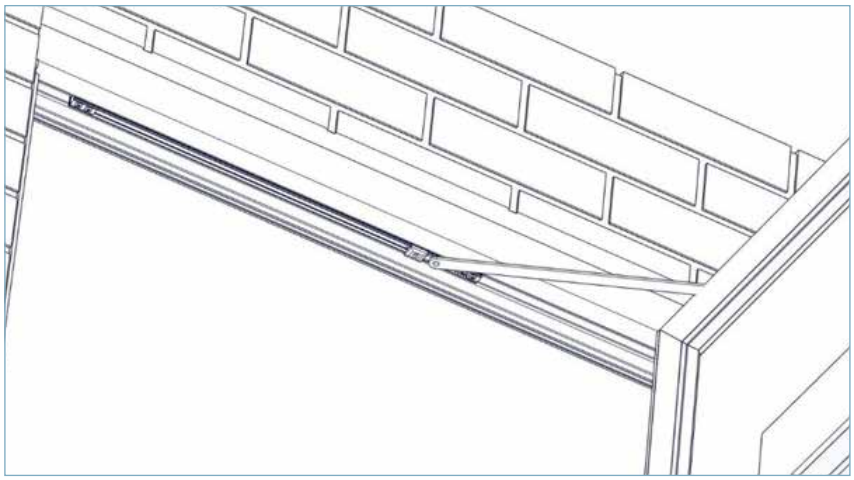
2. Prop the door open to the desired maximum angle.



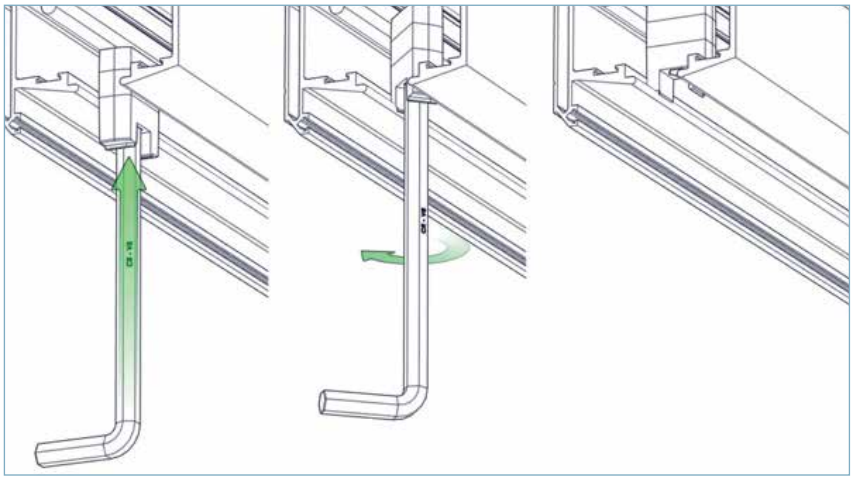
3. Ensure the slider stop is engaged by placing point (A) against a hard surface and pushing down on the restrictor arm. This will require some force and should result in a click. The restrictor arm should no longer be able to slide up and down the slider housing once this step has been completed.



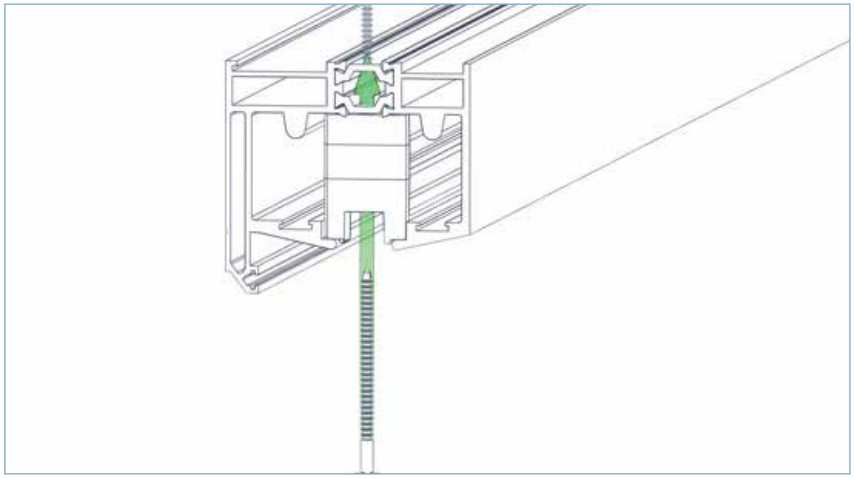
4. Fit the sash pivot to the top of the door, 60mm from the end of the black polyamide strip on the hinge side using two of the 5.0 x 45mm screws provided. The pivot should be fitted so that it butts up to the edge of the polyamide closest to inside of the door.



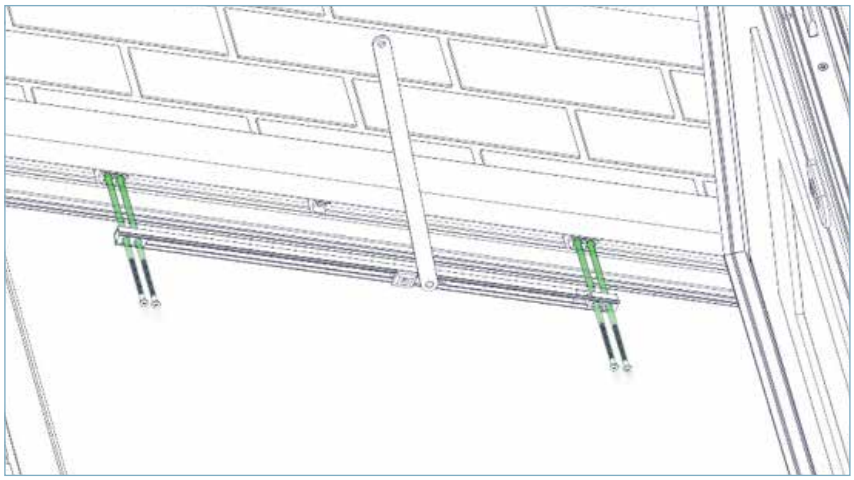
5. Insert the slider casing into the top track making sure it is still connected to the sash pivot, it should only fit in one position. Then, using a non-permanent method, mark the positions of the four screw holes in the slider casing, then move the slider casing out of the way.



6. Insert four of the restrictor blocks positioned at the points you have marked on the top track. Do this by using an 8mm Allen key to insert the block into the track and twisting 90° clockwise to lock it in to place. The 5th restrictor block is then inserted half way between the other blocks.



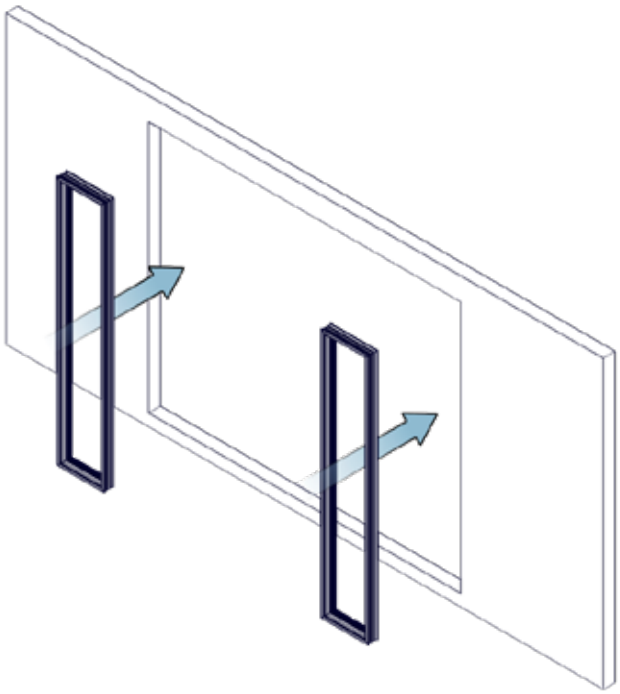
7. Using one of the 5.0 x 45mm screws, secure the middle restrictor block as shown.



8. Now place the slider casing back into the top track at your marked position, and secure the last 4 restrictor blocks through the slider casing using the 5.0 x 60mm screws as shown. It may help to disconnect the sash pivot at this point for ease of installation. Once the screws have been fitted reconnect the sash pivot. Check the door for proper operation.

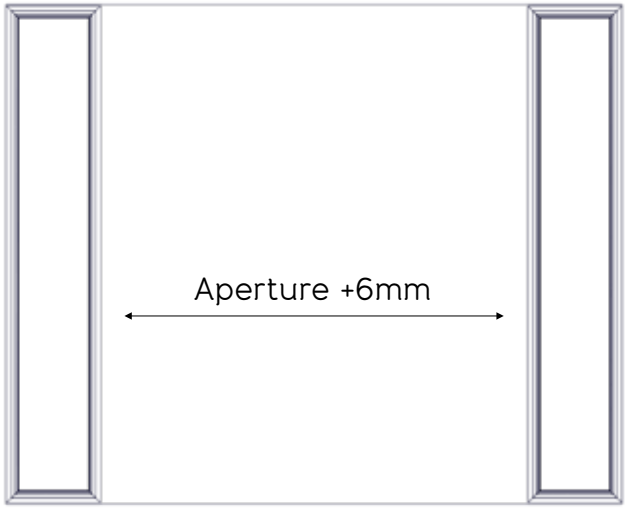
Window-to-jamb Coupler Installation Guide

Install the windows as described in the Installation Guide

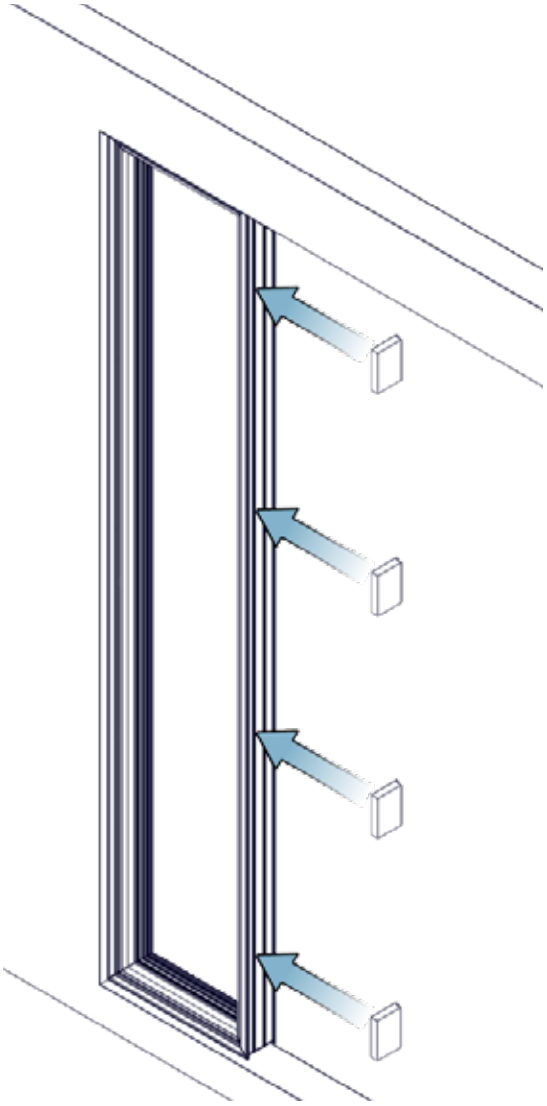


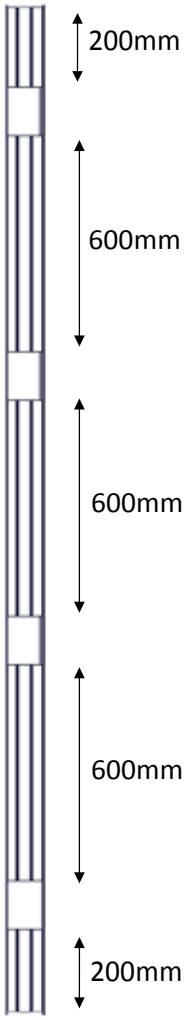
Ensure the remaining aperture is 6mm wider than the overall door set width

Do not install the glass



Install the alignment block into the window frame

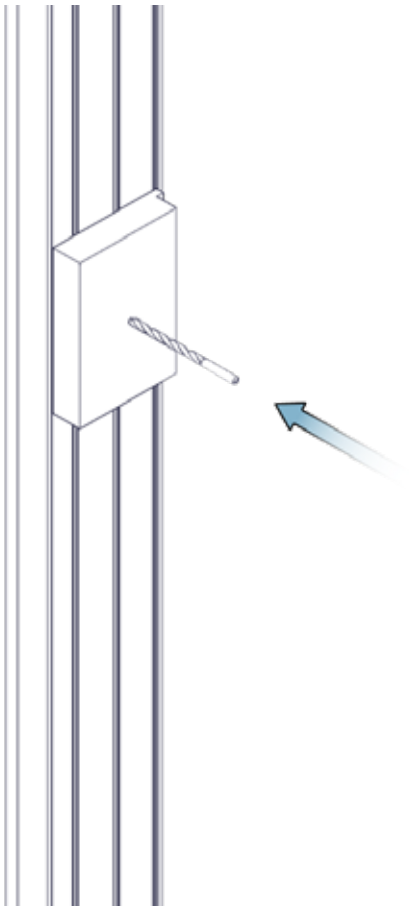


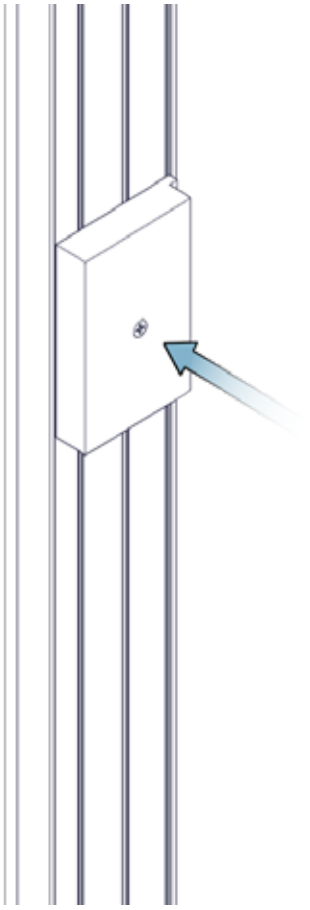


Leave 200mm from each end and evenly space the rest appropriately

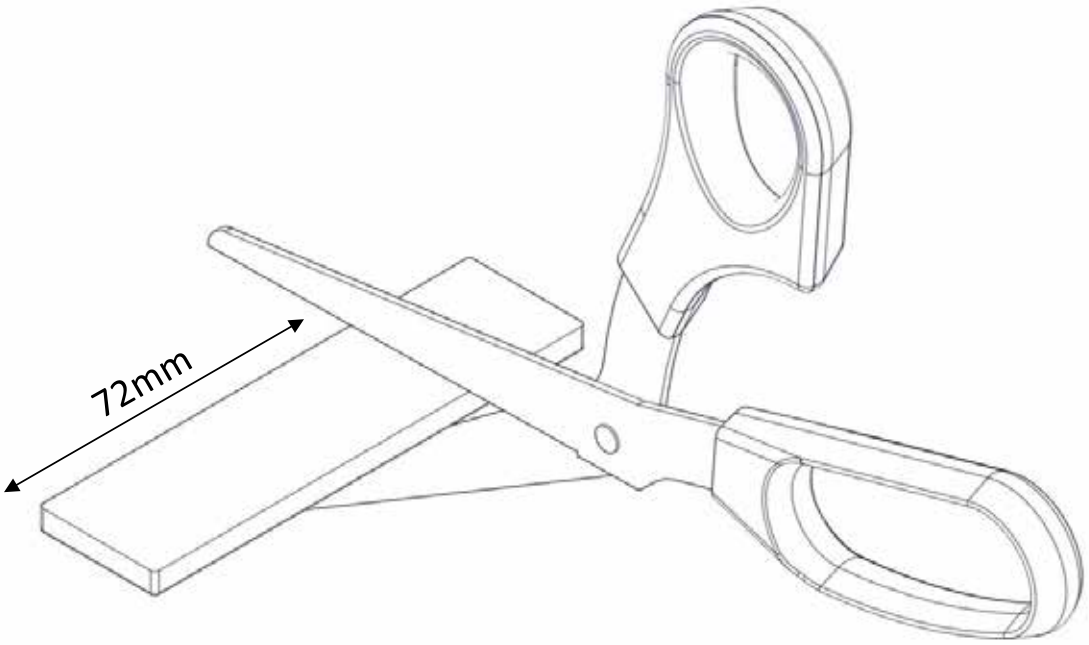
Drill, countersink and fix alignment blocks

Ensure screw is flush with surface of the block

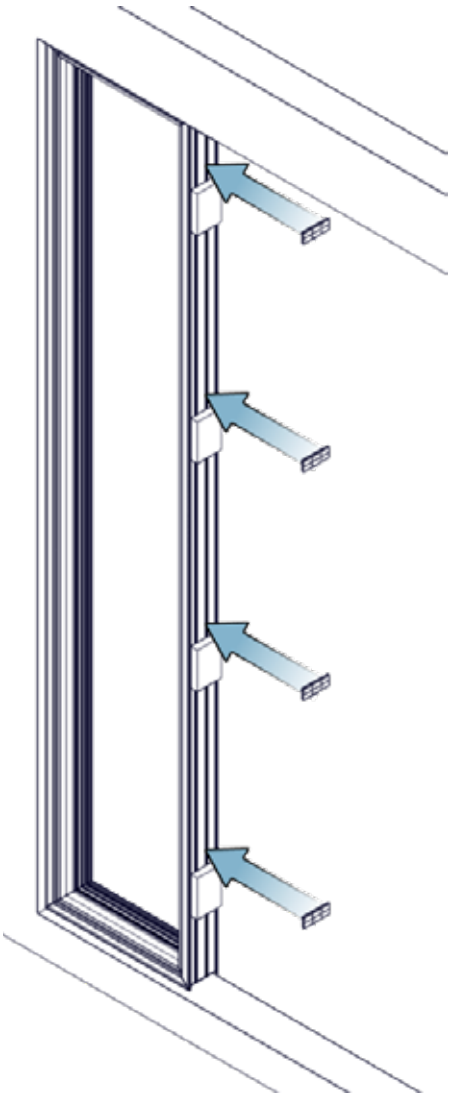




Cut down 5mm frame packers to 72mm (one for each jamb packer)

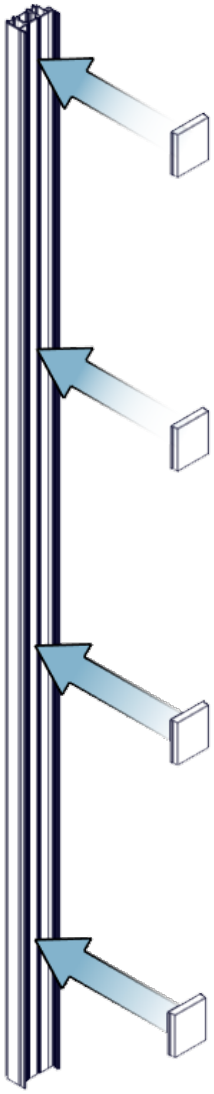


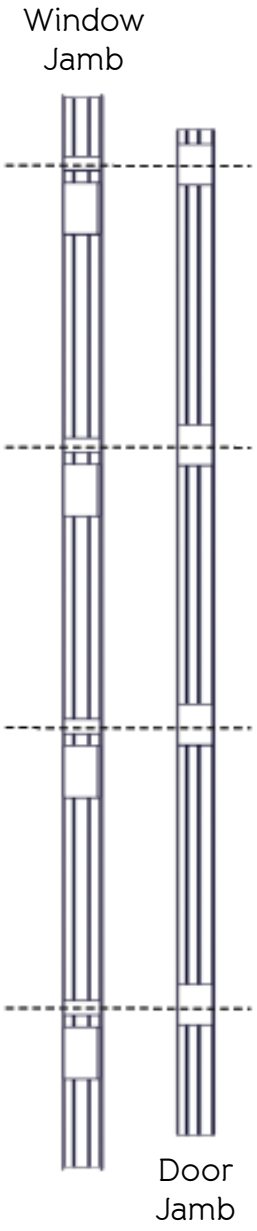
Install the glazing packers



Ensure packers are positioned next to the alignment blocks

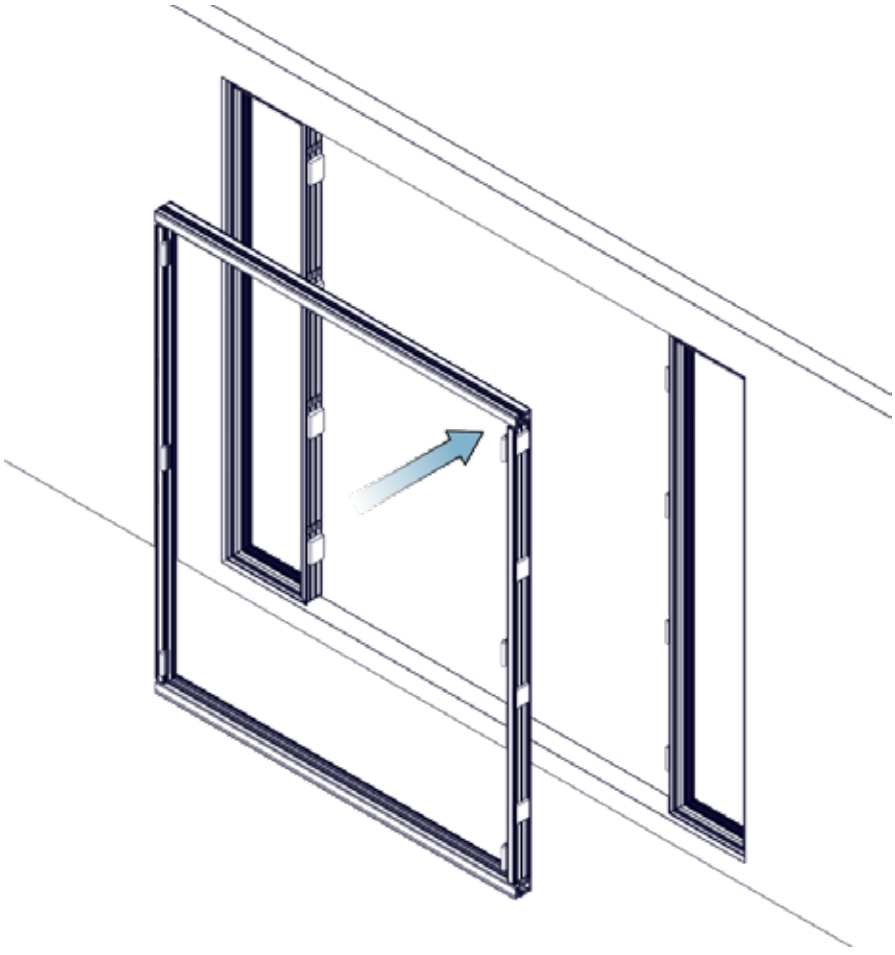
Re-position the jamb packers in the jamb





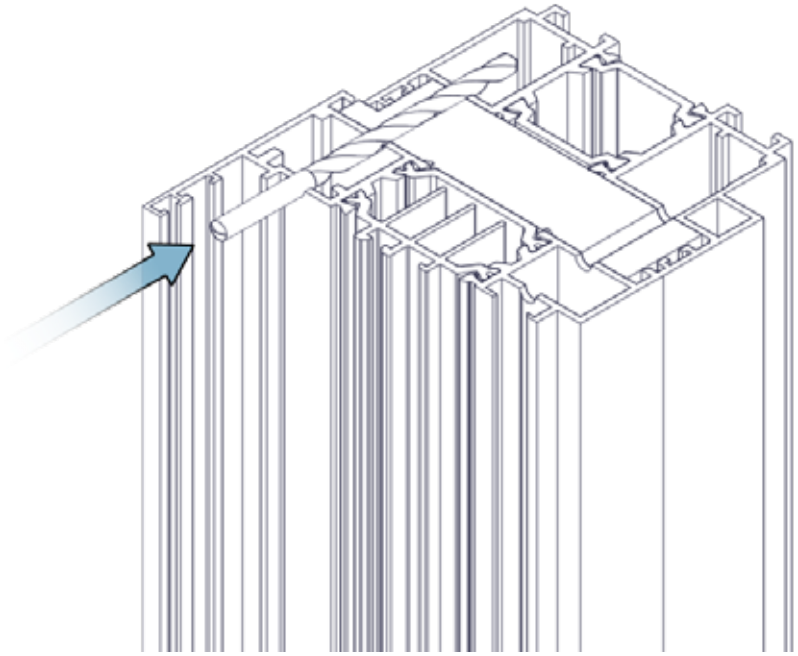
Ensure packers are spaced the same as the frame packers installed on the window frame and fix appropriately

Position the door frame into the aperture and pack/ clamp accordingly

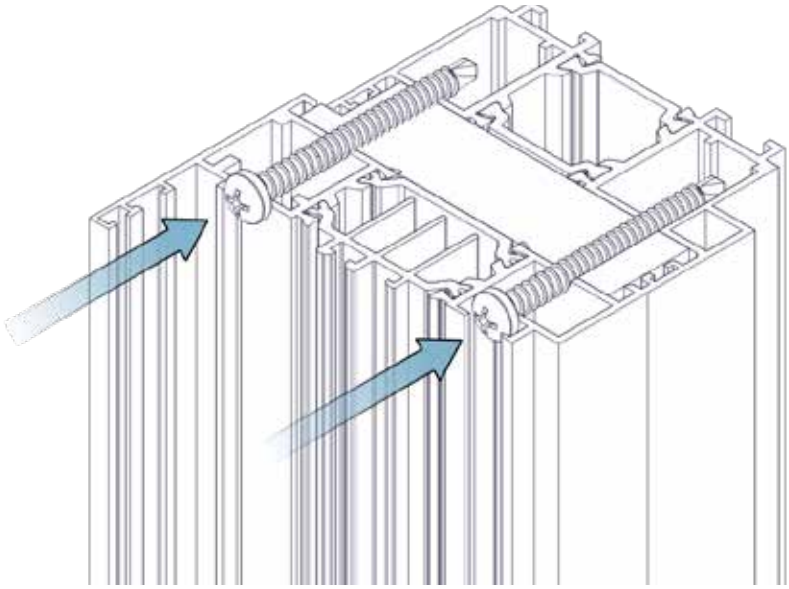


Do not drill into gasket chamber

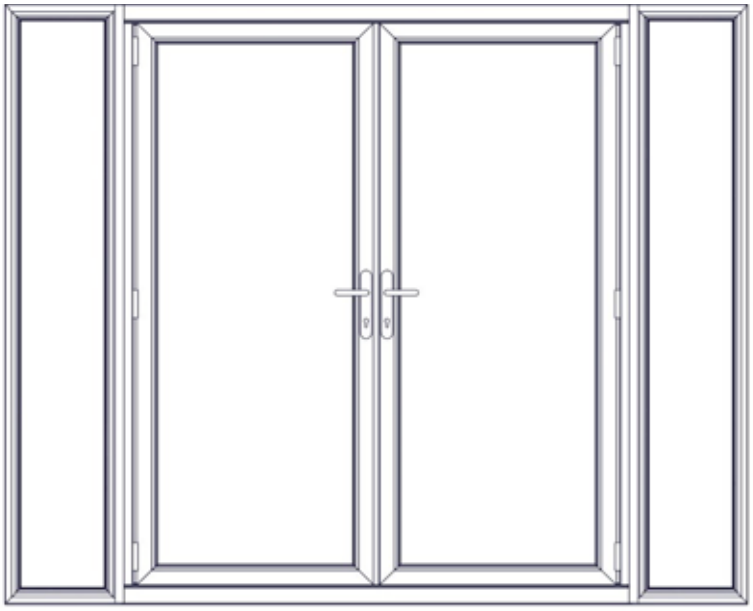
Pre-drill the frame with a 3mm drill bit as shown for every jamb packer used



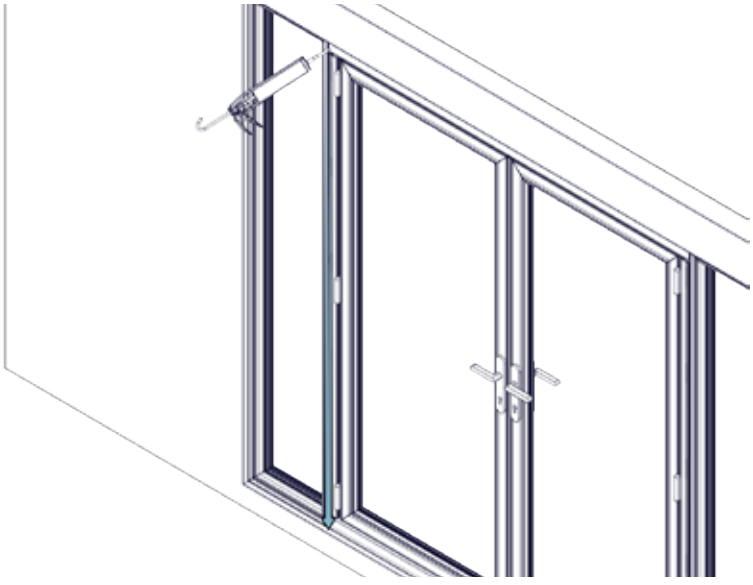
Using supplied screws, fix the window frame to the door jamb through the jamb packers



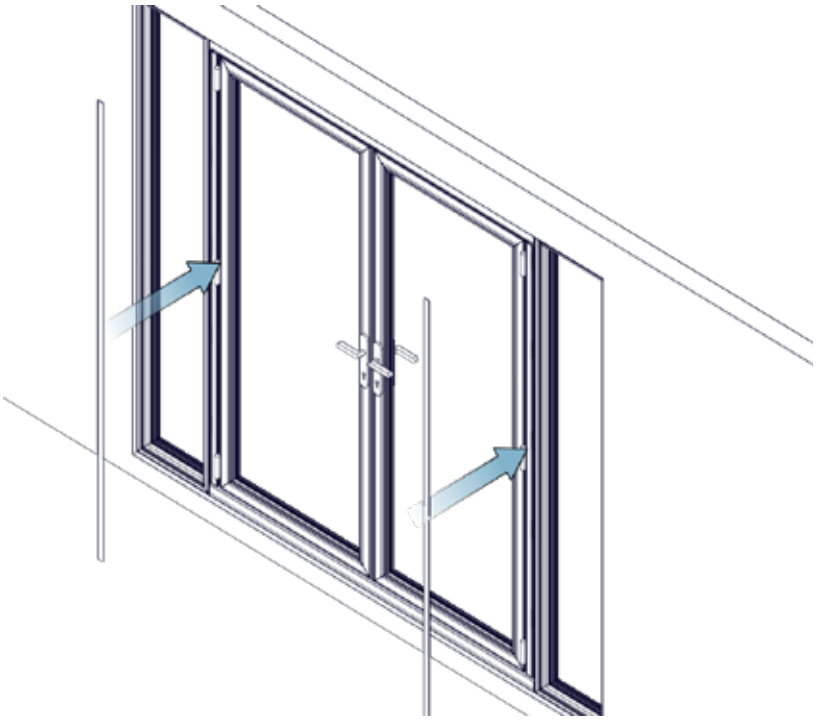
Install door sash, windows and glass as described in the Installation Guide



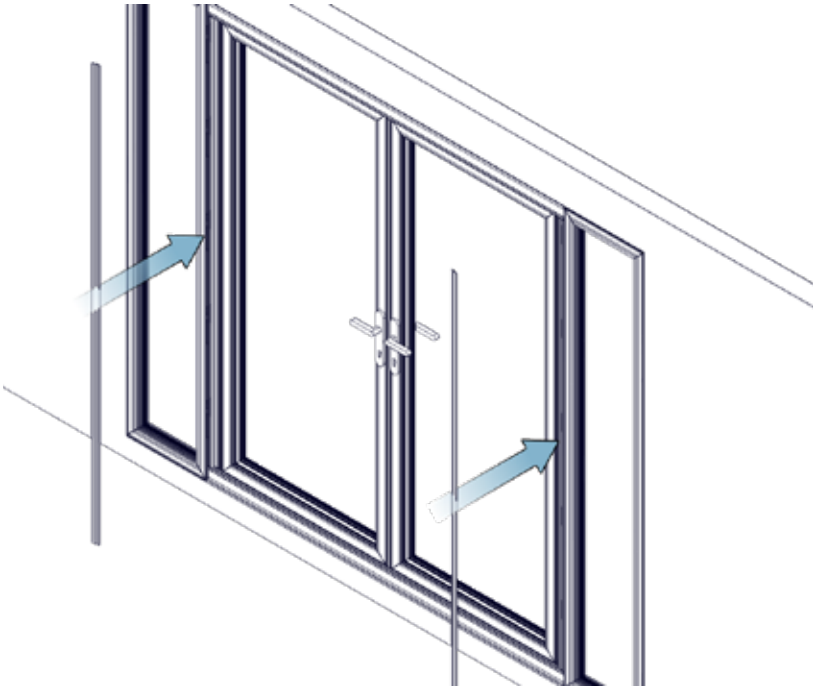
Seal the joint, between the window and door frame, making sure the joint is completely weatherproof



Cut and fit supplied trim inside (flat) ...

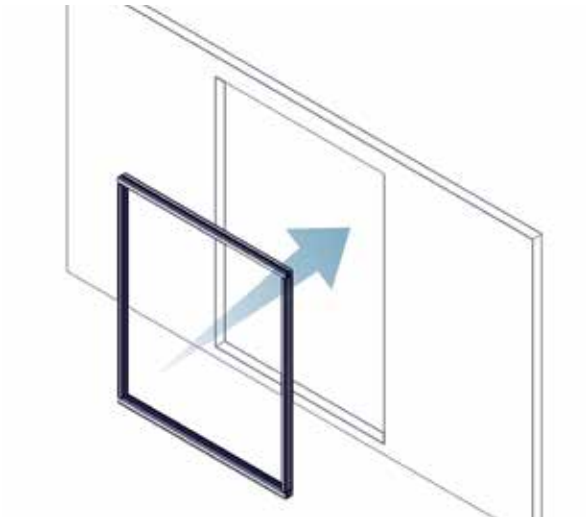


...and out (stepped)

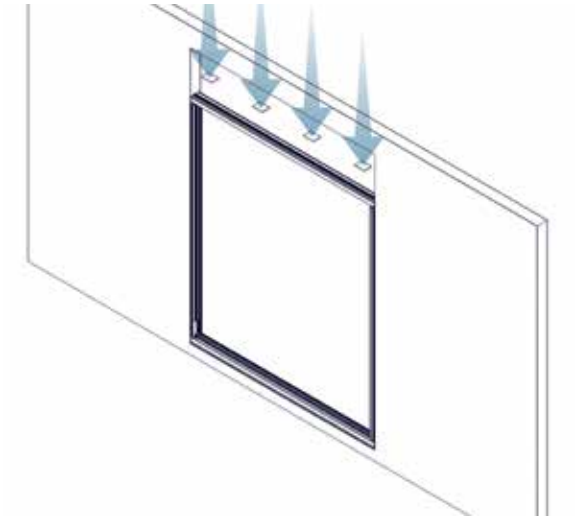


Window-to-track Coupler Installation Guide

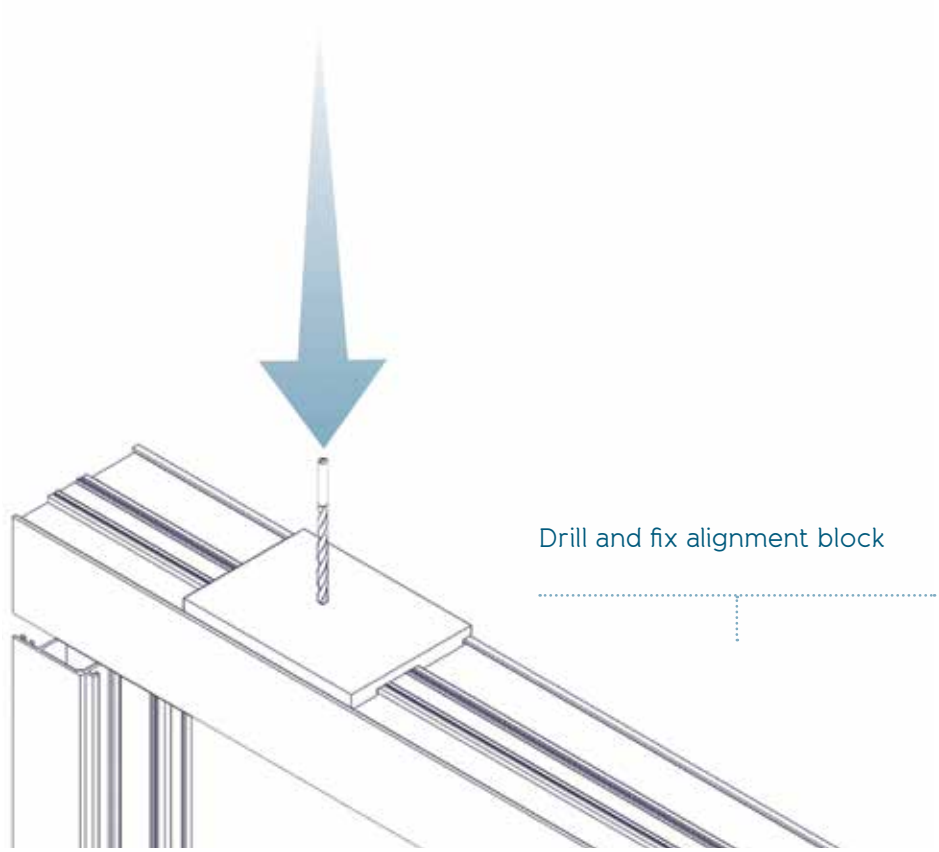
Install door jambs and tracks as described in the Installation Guide

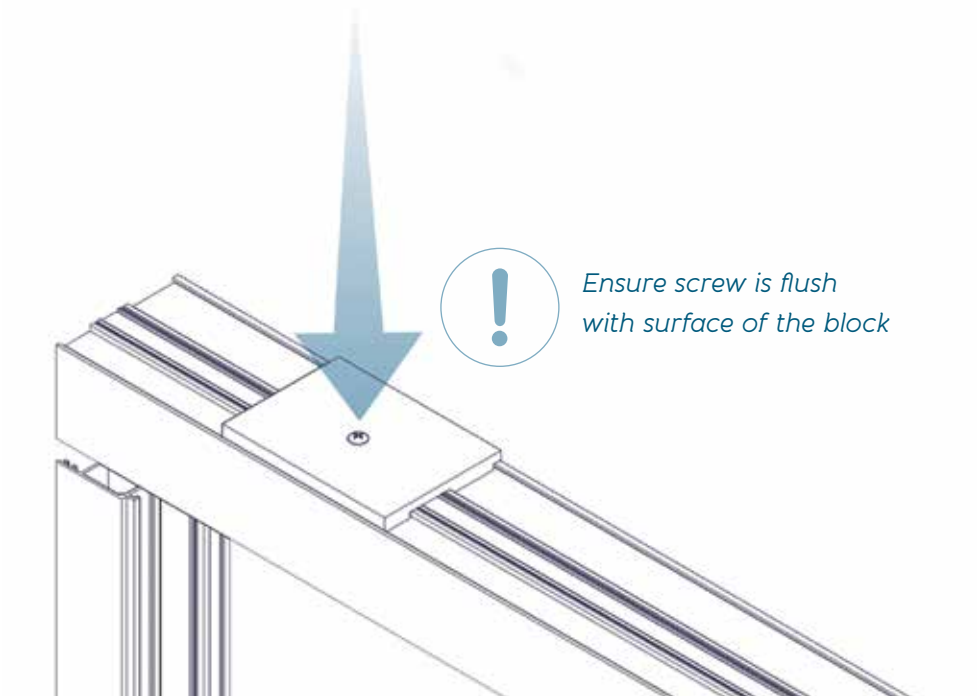


Place fixing blocks along the top track

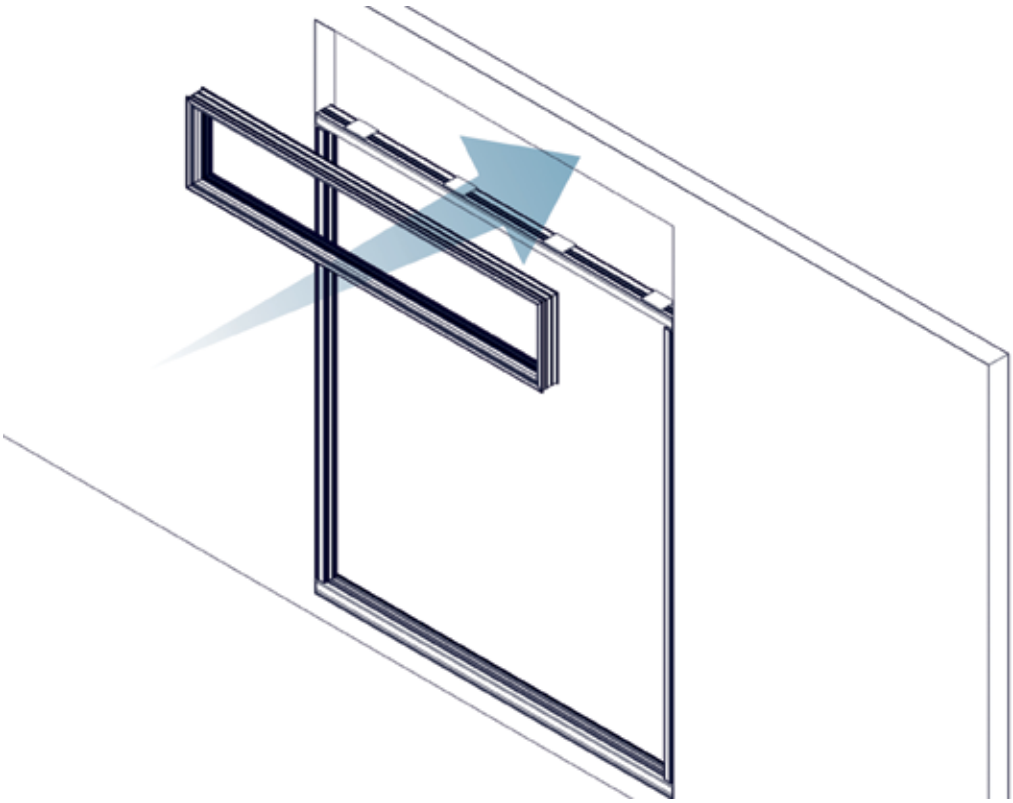


Ensure blocks are spaced evenly as shown

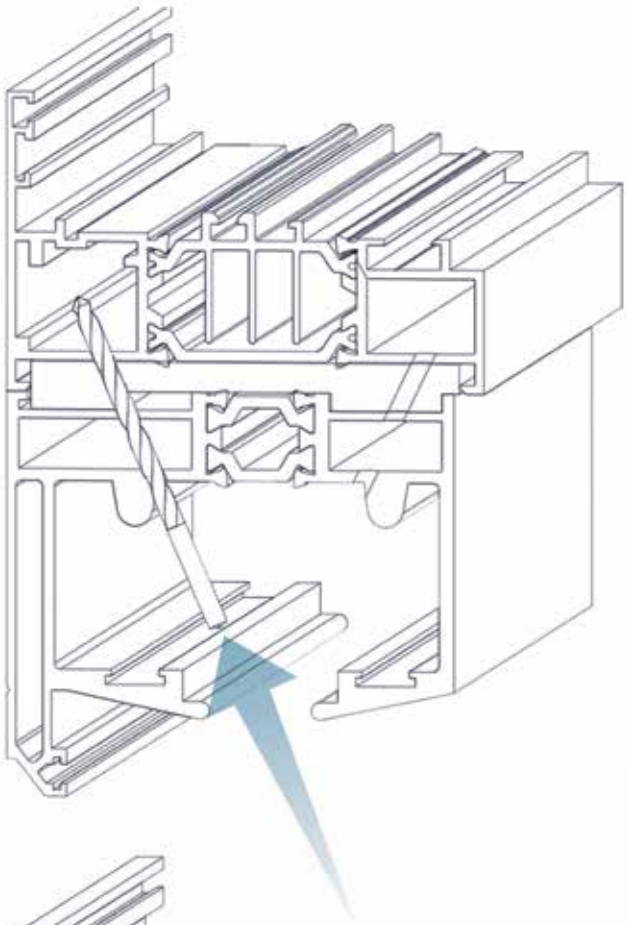

Drill and fix alignment block


Ensure screw is flush
with surface of the block

Install window above the door using clamps/ windbags to secure into position

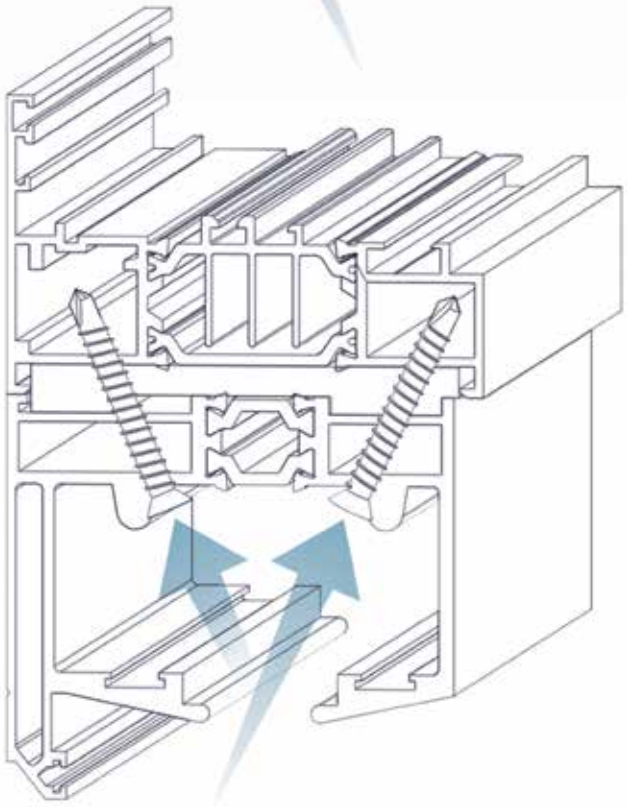


Pre-drill the frame with a 3mm long series drill bit as shown for every alignment block used

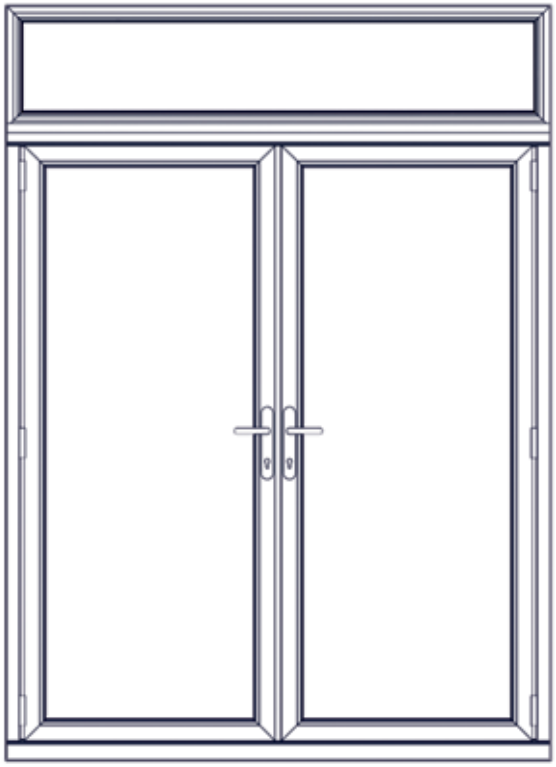


Do not drill into the window cavity

Using screws supplied, fix the track to the window frame



Install door sash, window and glass as described in the Installation Guide



Silicone the joint between the track and window frame to ensure the joint is completely weatherproof

Inside

Outside

Cut and fit supplied trim inside (flat) and out (step)

Accreditations...

At Origin, we pride ourselves on providing best quality products backed by best levels of service and efficiency. Put simply, our aim is to continuously learn, evolve and improve.

We are well known for having rigorously high standards in everything that we do. We're also known for innovation, but we never want to settle: if there's a way that we could do something better, we will find it.

This ethos has been instilled throughout Origin. Whether it's a process, product offering or even the company's sustainability, we have created a culture that encourages continuous improvement.

To demonstrate our commitment and as a way of measuring our performance, we work towards gaining certain prestigious accreditations. Our achievements show a strong moral and ethical intent in how we operate and how we try to do things the best way, not because we are told to do so, but because we think it is the right thing to do.

We'll run through some of these now.

ISO 9001 – Quality Management...

ISO 9001 is an international standard that assesses a company's quality management system. Having first achieved it in 2013, the fact that we still are certified means that we have a track record of consistently providing products and services that meet both customer and regulatory requirements.

It's something that we take very seriously and its influence is integrated into every process.
Key areas of this include:

Product quality – To ensure a product's overall manufacture is flawless, we have checks in place to guarantee you the best quality. A few examples are:

- Supply chain – an inspection at the point of delivery and before going into manufacturing. If anything is spotted, it's documented and raised with the supplier.
- Production – there are quality checks at every station, not only to look over the previous person's work, but to review the quality of the overall build.
- Equipment – a robust maintenance schedule for machinery and equipment ensures consistency.
- Pre-delivery – before it is packaged and loaded ready for delivery, there's another thorough check to ensure nothing's happened whilst being moved from station to station.
- Feedback – as part of our mission to always innovate, whether it's from internal or external stakeholders, feedback is imperative. We are very proactive at bringing this type of information back into the business and learning, as it gives us an opportunity to improve.

- Training and development for our employees – meaning we're better at understanding the good, the bad, and what we can do better.

Secured by Design...

Secured by Design (SBD) is a national, police-backed standard, associated with security and levels of performance for weather, operation and quality on domestic properties. The flagship UK police initiative was originally introduced to help 'design out' crime through the use of high-quality, innovative products and market-leading processess.

It recognises that our doors and windows have not only been tested to the required security standards, but that they also adhere to the rigorous test standards required by the police.

This independent certification involves initial testing of the products and regular re-tests, as well as inspections of our manufacturing and production facilities, to ensure the correct processes are maintained constantly over time, providing more secure and reliable products.

In order to be able to apply, we first needed to achieve:

1. PAS 24 (Enhanced Security)
2. BS EN 6375 Part 1 (Weathertightness)
3. BS EN 6375 Part 2 (Operational and Strength Characteristics)
4. BS EN 6375 Part 3 (Basic Security)
5. ISO 9001 (Quality Management)

We're proud to say that our products passed every one and SBD, so you can feel secure by choosing Origin.

PAS 24...

This is your guarantee that the door sets and windows that we manufacture deliver the right level of security for the buildings they are intended to be part of.

Like most British Standards, PAS 24 is a minimum standard, and it is either a pass or fail test. There isn't a performance scale for those that are more or less secure, so some of the products that pass will be stronger than the minimum requirement. That's why we have become Secured by Design accredited. Because it's a voluntary scheme, we feel it demonstrates our commitment to the security and overall performance of our products.

ISO 14001 – Environmental Management...

Now more than ever, we need to be aware of the impact our operations may have on our environment; the legal obligations we must adhere to, and ensuring we are doing things the right way.

The internationally renowned ISO 14001 accreditation measures the environmental management system that we have in place. It's a subject that's very close to our hearts, which is why working towards this standard was an easy decision.

We care about the resources we use for our products – where they come from and where they end up. To add to this, we aim to be zero waste to landfill and have already put into place many positive changes to make this happen. We want our customers to buy from us with a clear conscience and feel that ISO 14001 can prove that Origin is taking responsibility, acting ethically, legally and exercising best practice in all that we do. Our environmental management system covers:

- Waste management and energy targets – to reduce our consumption and impact on the environment Helpful hints, tips and reminders are prompted to all staff regularly, so that they can join us in our goal and see how small changes to their work practices can have a big impact.

- Product design and lifecycle – recyclability and sustainability are a design priority for us.

- Supply chain – choosing suppliers that are aligned with our ethos and vision. This is applicable not only when bringing on new suppliers, but also working with existing ones to better their carbon footprint – whether that's minimising packaging, reusing or even our drivers picking up the materials on their routes, rather than a supplier sending their own fleet, we are constantly reviewing how we can improve.

ISO 14001 CERTIFIED
UKAS MANAGEMENT SYSTEMS
8289
British Assessment Bureau
Certificate no. 218400

bsi. ISO 9001 Quality Management
FS 584084

Secured by Design
SBD
Police Preferred Specification

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