





origin

DOORS AND WINDOWS

OS-44 & OS-77 Specification File



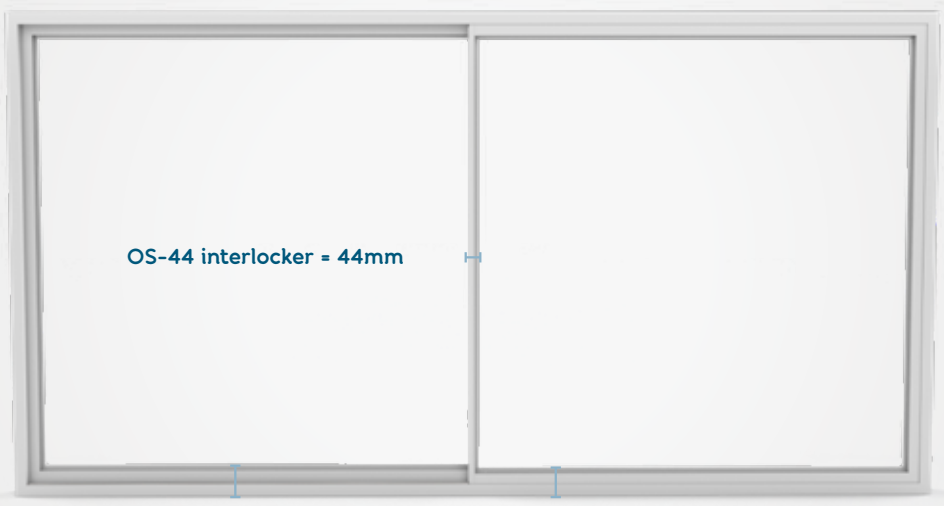
Contents

Specification Overview	04
Security	07
Optional Extras	08
Patio Slider Make-Up	09
Performance and Limitations	10
Size Limitations	15
Master Configurations	17
Technical Drawings	22
Handles	35
Glazing	40
Gaskets	41
All Configurations	42
Installation Guide	45
Accreditations	52

Specification Overview

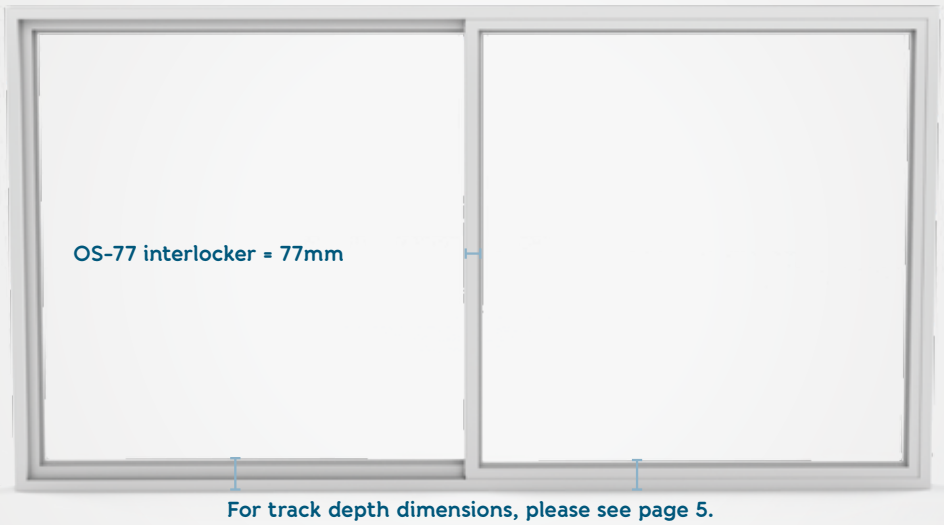
Thermally Broken Aluminium Patio Slider

External view of the OS-44



For track depth dimensions, please see page 5.

External view of the OS-77



For track depth dimensions, please see page 5.

Profile specification

Frame Depth	2 options: 143mm (double track) and 213mm (triple track)
Sightline	44mm and 77mm
Track Height	50mm (double and triple track)
Minimum Sash Size	895mm wide x 1925mm tall
Maximum Sash Size	2000mm wide x 2520mm tall *individual panels cannot exceed 6sqm*
Maximum Sash Weight	200kg

Features

- Up to a 20-year guarantee including gaskets and seals*
- PAS 24:2016 certified**
- Concealed running gear and track
- Square beading
- Weather testing BS 6375 part 1 certified

Glazing options

- Dry glazed system with either a 28mm, 32mm or 36mm glass unit.

Options and extras

- Up to 6 panelled configurations - these can be a combination of fixed and sliding or all sliding depending on the configuration chosen
- Available in over 150 RAL shades
- 225mm cill available for double track configurations
- Two handle options - either an all-in-one with bar and lock or a bar handle with separate locking
- 60mm drip bar option
- 35mm frame extender
- Trickle vent option

*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.

**PAS 24:2016 only available on the OS-77.

The Origin Patio Slider has 4 popular colours. These are available on a 2-week lead time.

2-WEEK LEAD TIME



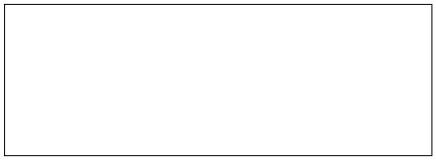
Anthracite Grey (7016M)



Jet Black (9005M)



Slate Grey (7015M)



Hipca White (9910G)

ANY RAL COLOUR

4-WEEK LEAD TIME

Outside of this, the Origin Patio Slider can be specified in any RAL colour. These will be available in 4-weeks.

For the full range, visit origin-global.com

Dual colour and woodgrain options are not available.

Drainage cap colours

Popular Colour	Drainage Cap Colour	Code
7021M (Black Grey)	Dark Grey	C01350
7015M (Slate Grey)	Dark Grey	C01350
7016M (Anthracite Grey)	Dark Grey	C01350
9005M (Jet Black)	Black	C01163
9006M (Light Silver Metallic)	Cement Grey	C01352
9007M (Dark Silver Metallic)	No. 38 Grey	C01349
9910G (Hipca White)	White	C01353

Security

Multi-Point Lock

Each door is equipped with an ultra-secure multi-point locking system, with 6 points of locking, including 4 hook keeps and 2 additional shootbolts.







Optional Extras

Handles

- Stainless steel 500mm bar handle with separate locking
- An all-in-one 300mm handle with integrated locking



500mm Offset handle



300mm All-in-one handle

Cills

A 225mm cill option is available in the following colours: 7015M, 7016M, 9005M and 9910G.



Drip Bar

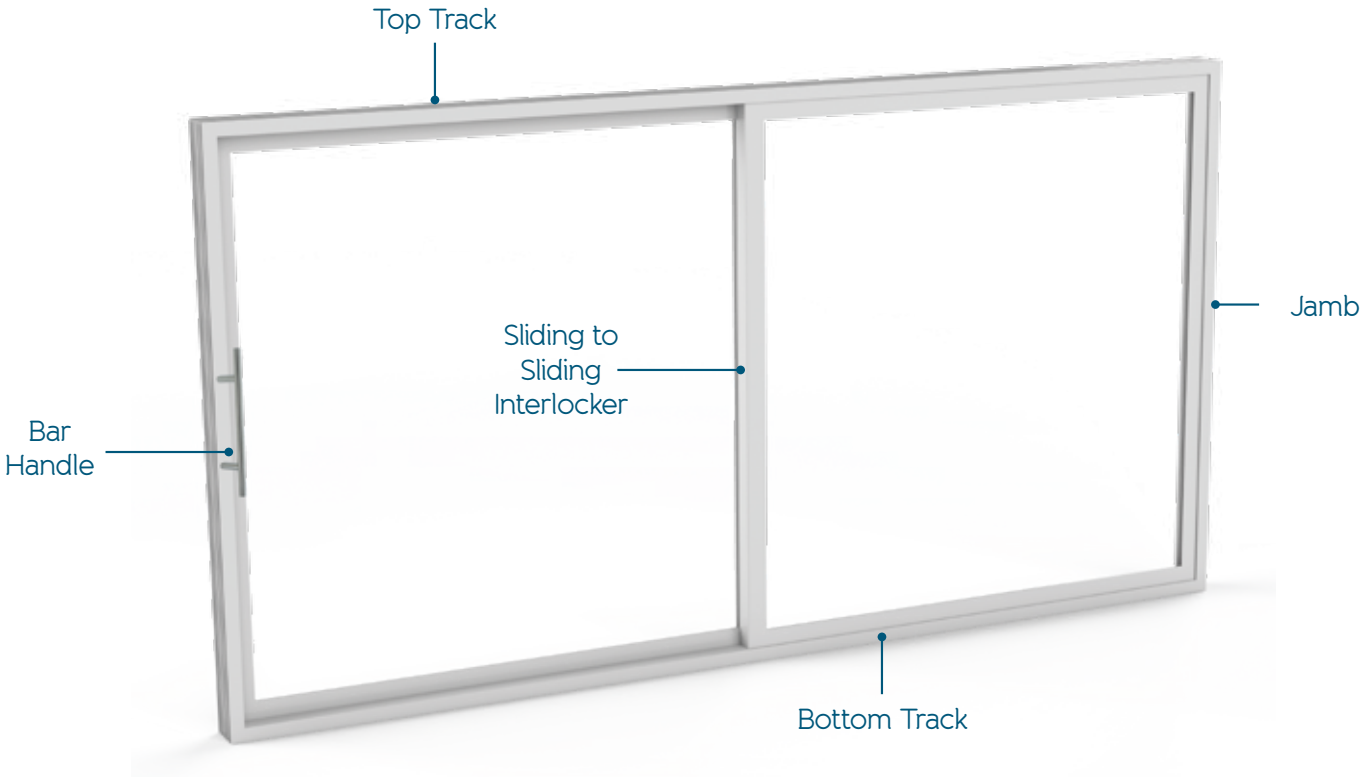
A 60mm drip bar is also available.

Frame Extender

A 35mm frame extender is available which allows for plaster lines on ceilings and also more room which also allow trickle vents to be fitted.

Please not an overall 15mm will need to be deducted from your measurements.

Patio Slider Make-Up



Make-up is dependent on the configuration chosen.

Performance and Limitations

Thermal Ratings

u-Value	1.8 - 1.2 W/m2K

Weather Rating

Air Permeability	Class 3
Resistance to Wind Load	1600Pa
Water Tightness	Class 6a
Exposure Category	1000

Performance Testing

BS 6375 Part 1 Certified

PAS 24:2016 (only available on OS-77)

Thermal Performance

Glass Type	
Planitherm Total+ (1.2 Centre Pane, 90% Argon, swisspacer ultimate)	1.8 W/m2K
Planitherm 4s II (1.0 Centre Pane, 90% Argon, swisspacer ultimate)	1.6 W/m2K
2 X Planitherm 4s II (0.8 Centre Pane, 90% Argon, swisspacer ultimate)	1.4 W/m2K
2 X Planitherm 4s II (0.5 Centre Pane, 90% Krypton, swisspacer ultimate)	1.2 W/m2K

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

Certificate of thermal simulation

PRODUCT:	Origin Patio Slider
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE VALUE:	2 X Planitherm 4s II (0.8 Centre Pane, 90% Argon, swisspacer ultimate)

Thermal Transmittance:

1.2 W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: June 2018

SIGNED: D. Ginger

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

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

Stuart House, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.135.1

origin

DOORS AND WINDOWS

OS-44/ OS-77

Certificate of thermal simulation

PRODUCT:	Origin Patio Slider
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE VALUE:	2 X Planitherm 4s II (0.8 Centre Pane, 90% Argon, swisspacer ultimate)

Thermal Transmittance:
1.4 W/m2K

TESTED BY: David Ginger (Product Compliance Director)
DATE: June 2018
SIGNED: D. Ginger

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

Email: enquiry@origin-global.com | Web: www.origin-global.com
Stuart House, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.136.1

origin
DOORS AND WINDOWS

Certificate of thermal simulation

PRODUCT:	Origin Patio Slider
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE VALUE:	Planitherm 4s II (1.0 Centre Pane, 90% Argon, swisspacer ultimate)

Thermal Transmittance:

1.6 W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: June 2018

SIGNED: D. Ginger

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

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

Stuart House, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.137.1

origin

DOORS AND WINDOWS

OS-44/ OS-77

Certificate of thermal simulation

PRODUCT:	Origin Patio Slider
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE VALUE:	Planitherm Total + (1.2 Centre Pane, 90% Argon, swisspacer ultimate)

Thermal Transmittance:
1.8 W/m2K

TESTED BY: David Ginger (Product Compliance Director)
DATE: June 2018
SIGNED: D. Ginger

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

origin
DOORS AND WINDOWS

Email: enquiry@origin-global.com | Web: www.origin-global.com
Stuart House, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.138.1

Size Limitations

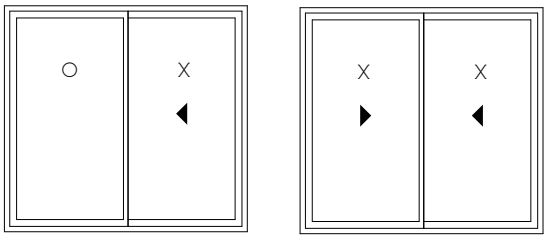
Slider Set Limits

	OS-44 & OS-77		OS-20	
Width (mm)	**Min**	**Max**	**Min**	**Max**
XO or OX (1 Sliding, 1 Fixed)	1800	4010	1228	4428
XX (2 Sliding)	1800	4010	1278	4478
XXO or OXX (2 Sliding, 1 Fixed)	2984	5939	1774	6574
XXX (3 Sliding)	2984	5939	1824	6624
OXXO (2 Sliding, 2 Fixed)	4005	7944	2405	8804
XXXX (4 Sliding)	4005	7944	2505	8904
OXXXXO (4 Sliding, 2 Fixed)	5893	11803	3497	13096
XXXXXX (6 Sliding)	5983	11803	3597	13196



Master Configurations

OX (1 fixed, 1 sliding) or XX (2 sliding)



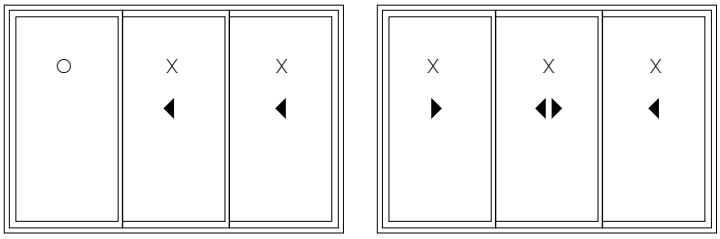
KEY

O - Indicates Fixed sash

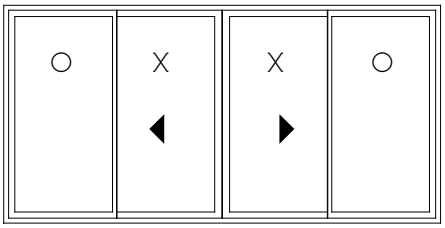
X - Indicates Opening sash

Arrow - Indicates opening direction

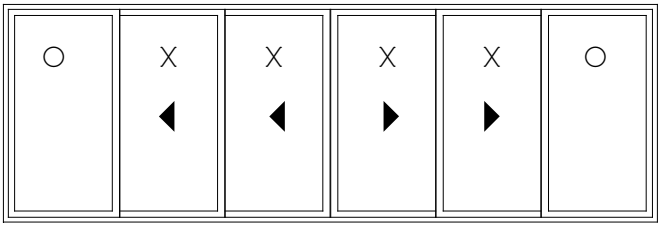
OXX (1 fixed, 2 sliding) or XXX (3 sliding)



OXXO (2 fixed, 2 sliding)

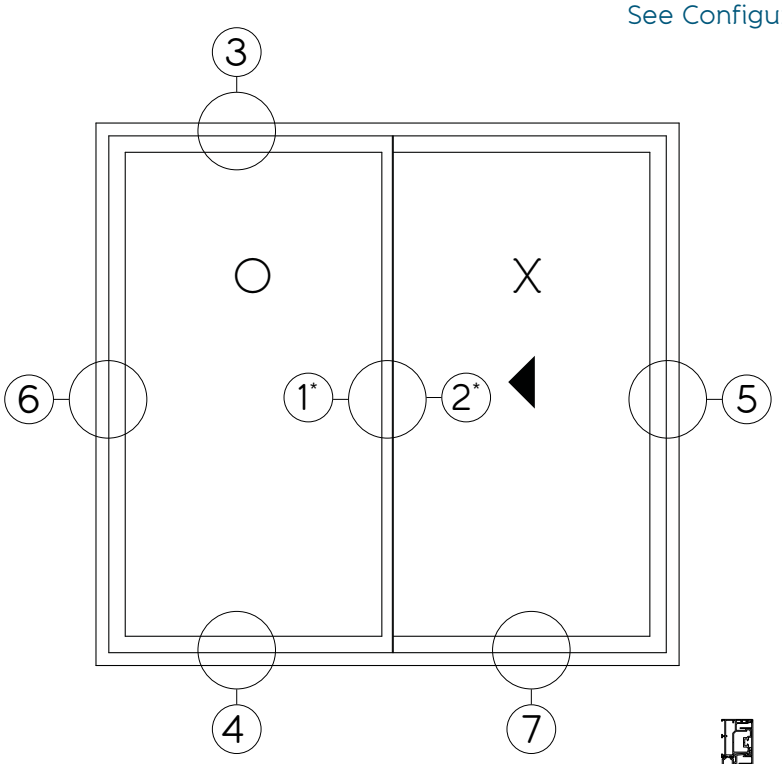


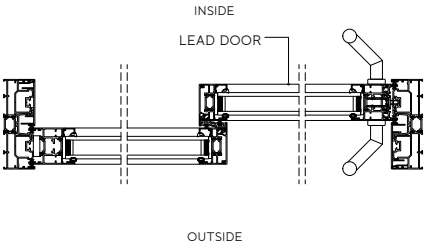
OXXXXO (2 fixed, 4 sliding)



Master Configuration: XO (1 sliding, 1 fixed) or XX (2 sliding)

See Configuration Key for section detail





*Either the standard (77mm) or slim (44mm) interlock will be supplied dependent on the system chosen.



2+0

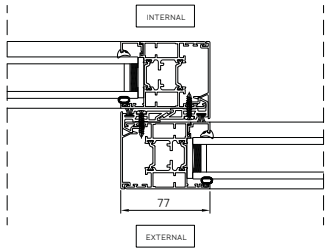
See page 17 for configurations

Key features

- Both panels can be sliding, or one can be fixed with one sliding
- Traditional patio door style

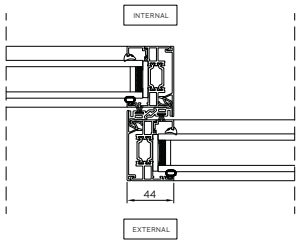
Configuration Key

1 -Standard Interlock



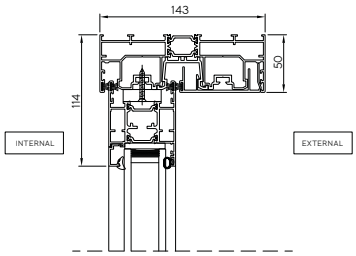
See page 22

2 - Slim Interlock



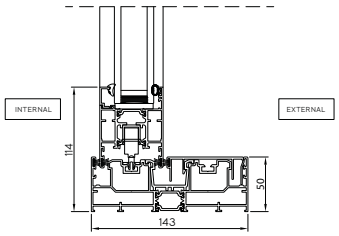
See page 23

3 -Double Frame - Top Track



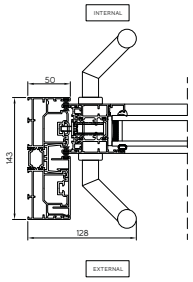
See page 24

4 - Double Frame - Bottom Threshold



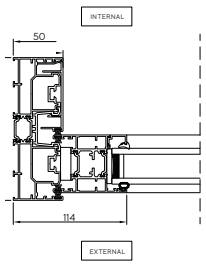
See page 25

5 - Double Frame - Locking Jamb



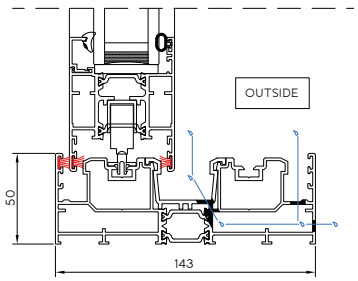
See page 26

6 - Double Frame - Fixed Jamb



See page 27

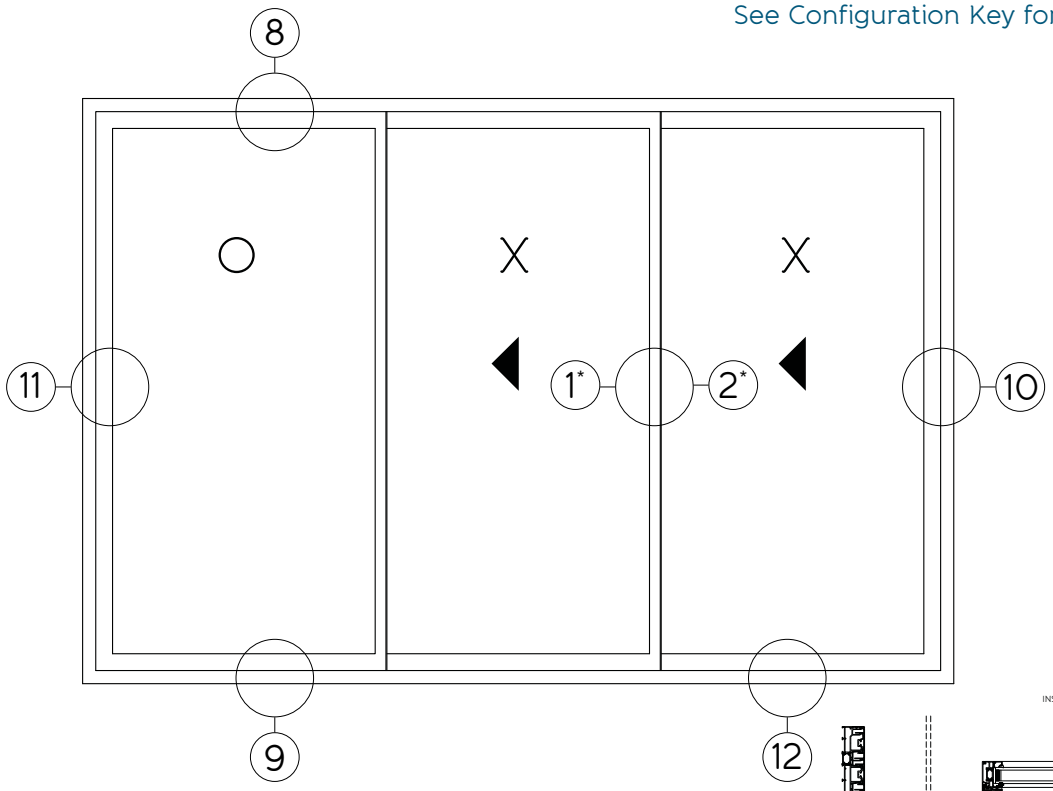
7 - Double Frame - Drainage Frame

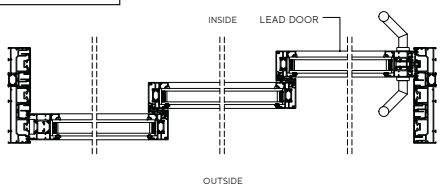


See page 28

Master Configuration: OXX (1 fixed, 2 sliding) or XXX (3 sliding)

See Configuration Key for section detail





*Either the standard (77mm) or slim (44mm) interlock will be supplied dependent on the system chosen.



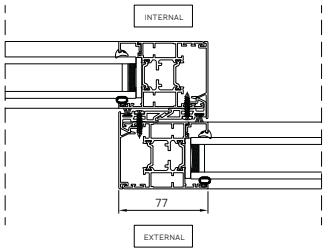
Key features

- Fixed pane can be specified on the left or right

See page 17 for configurations

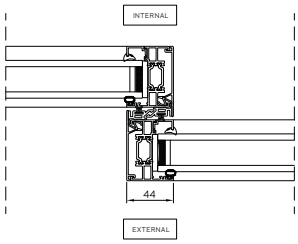
Configuration Key

1 -Standard Interlock



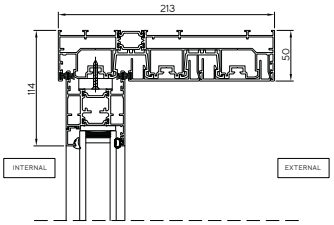
See page 22

2 - Slim Interlock



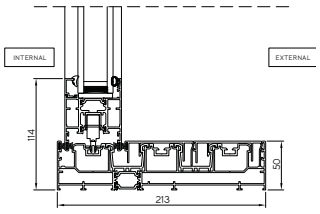
See page 23

8 - Triple Frame - Top Track



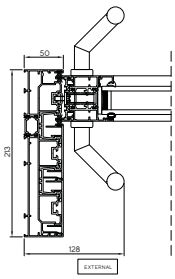
See page 29

9 - Triple Frame - Bottom Threshold



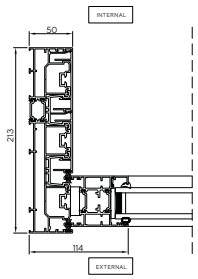
See page 30

10 - Triple Frame - Locking Jamb



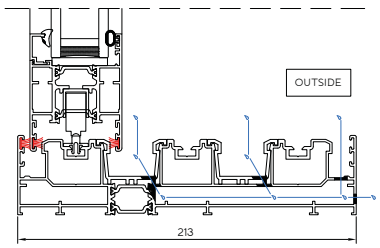
See page 31

11 - Triple Frame - Fixed Jamb



See page 32

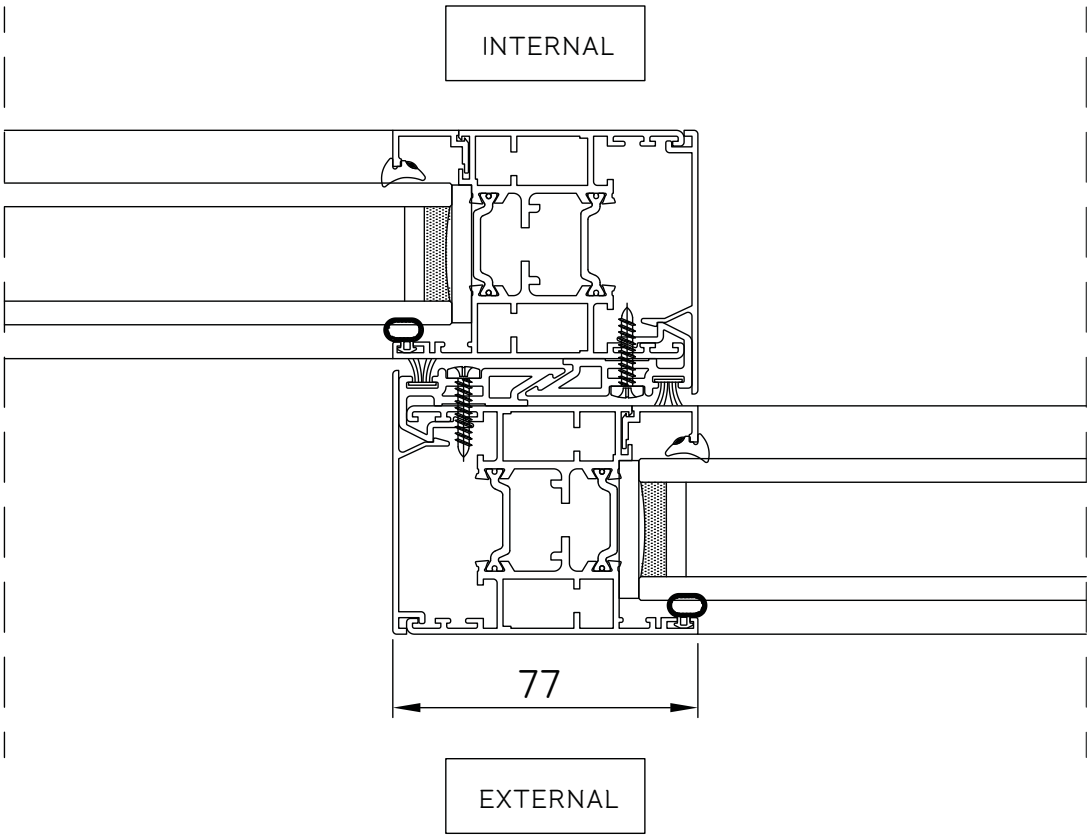
12 - Triple Frame - Drainage Details

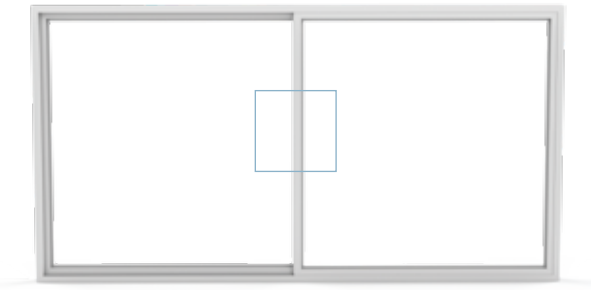


See page 33

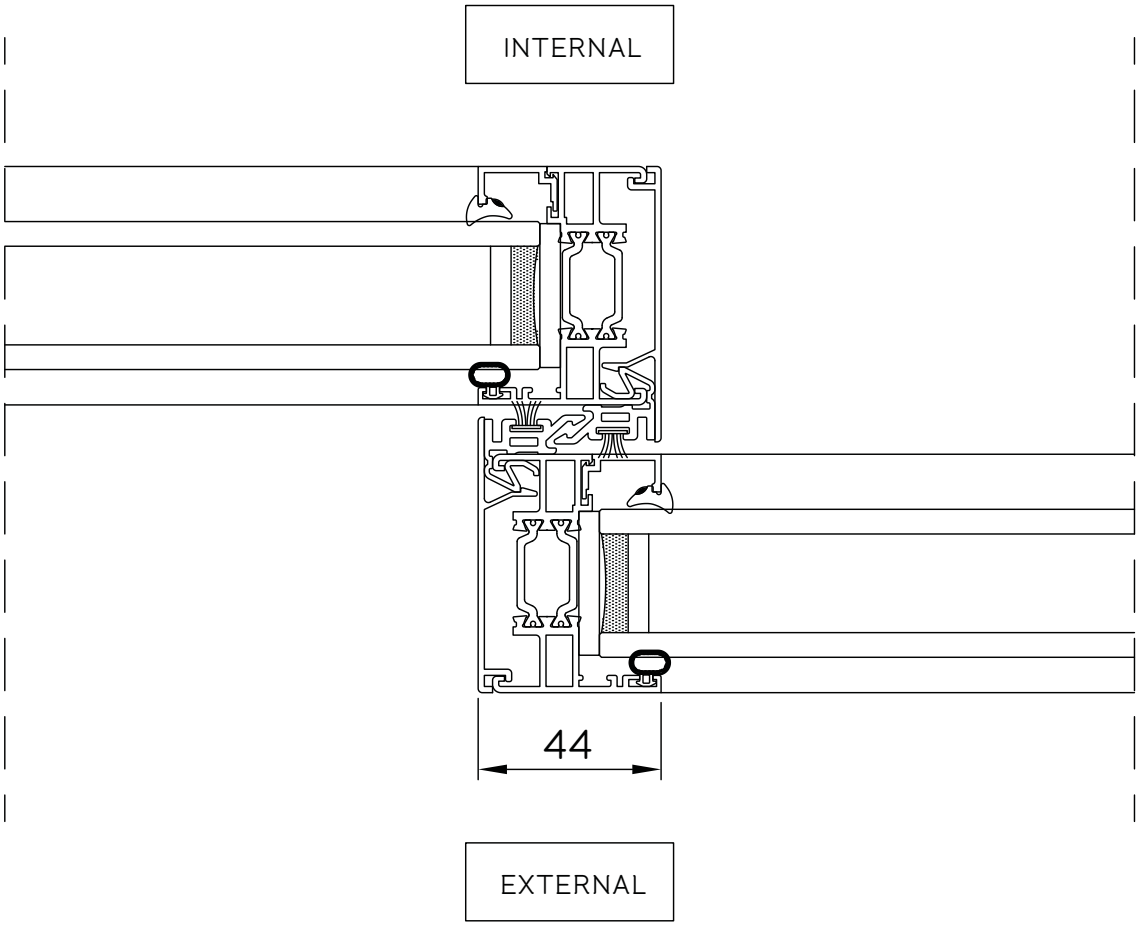
Technical Drawings

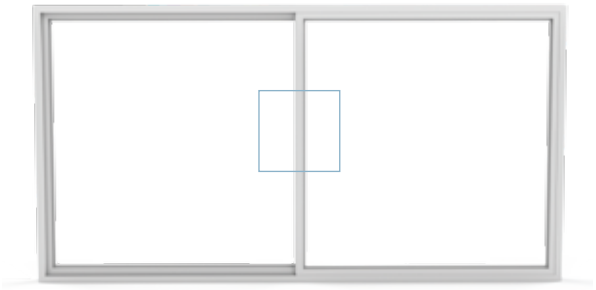
1 Standard Interlock



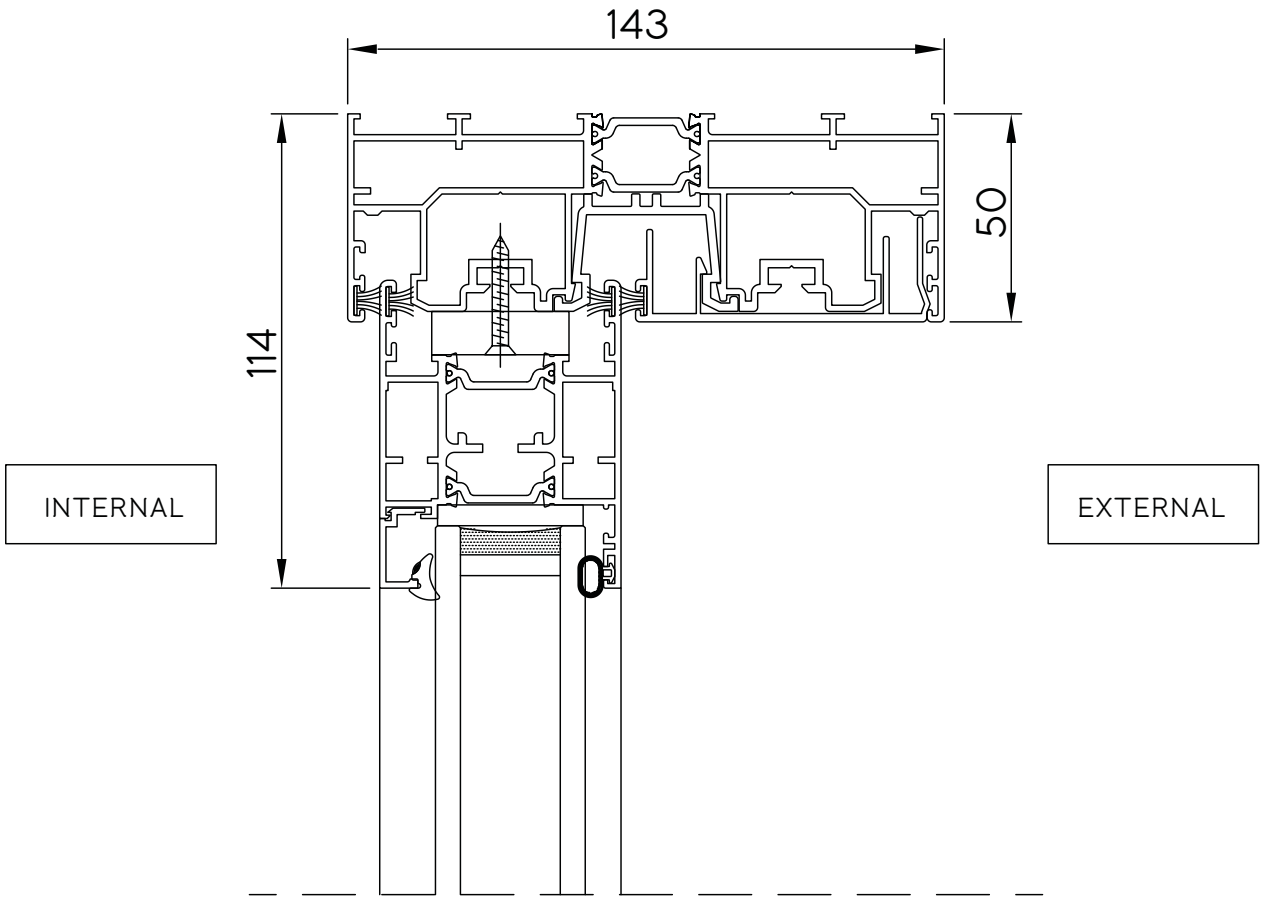


2 Slim Interlock



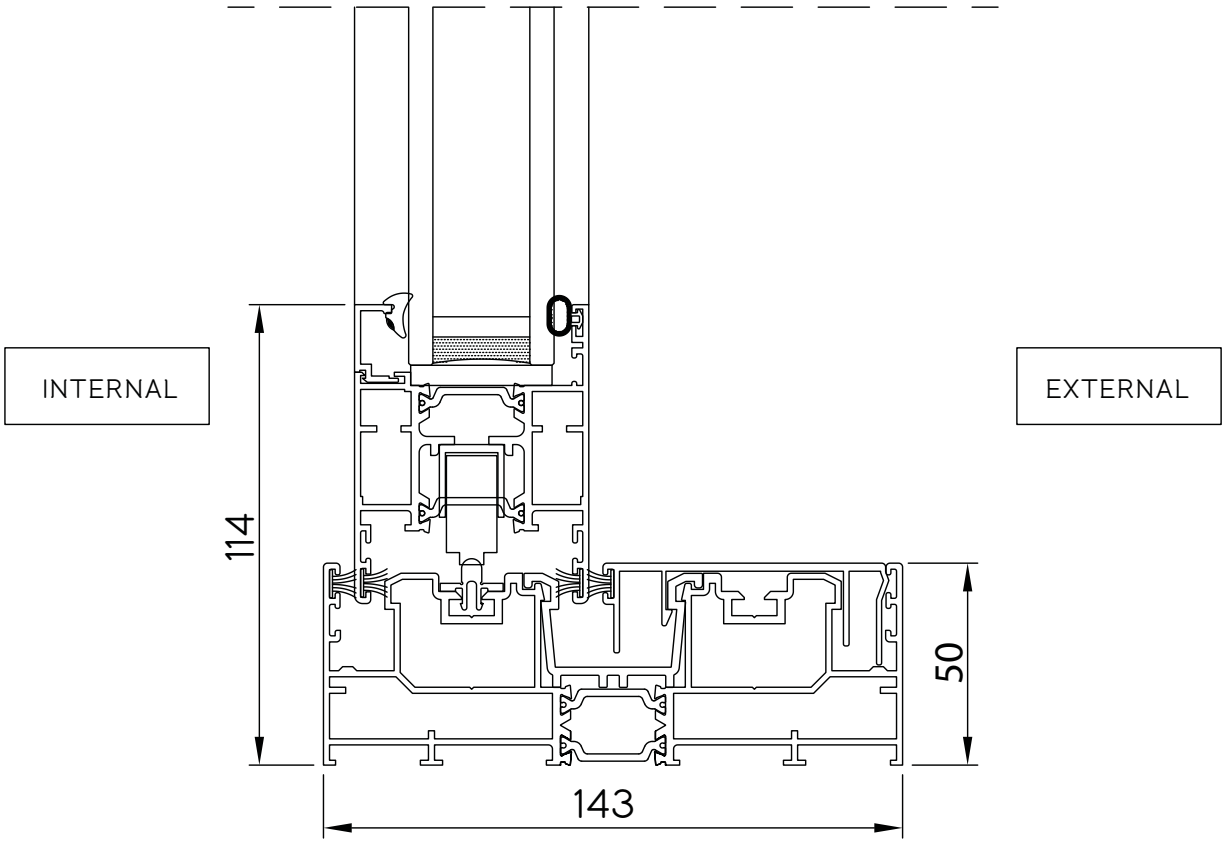


3 Double Frame - Top Track



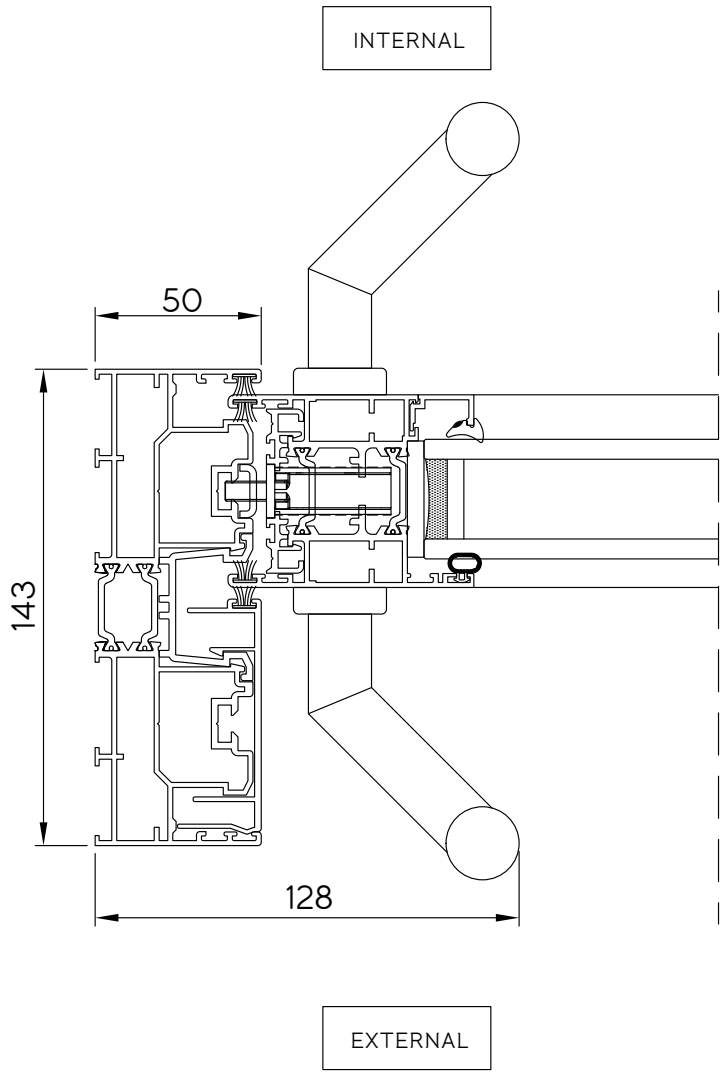


4 Double Frame - Bottom Threshold



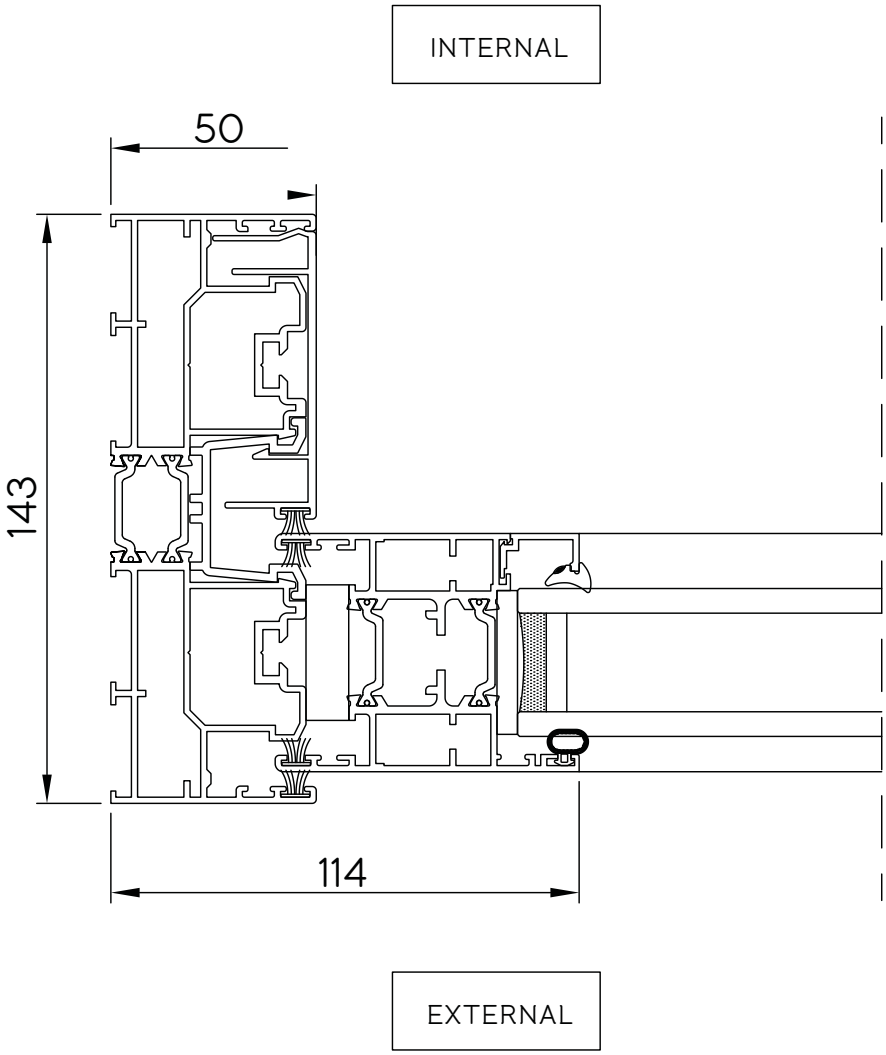


5 Double Frame - Locking Jamb



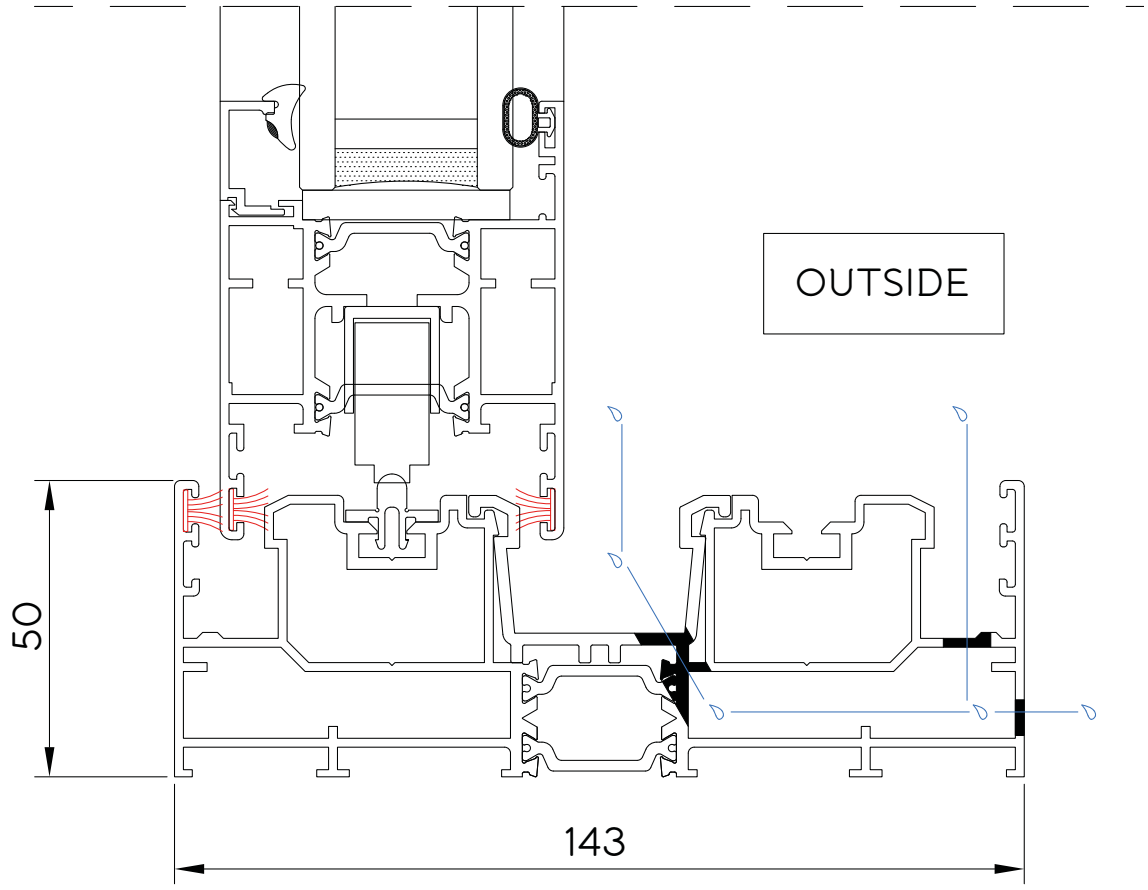


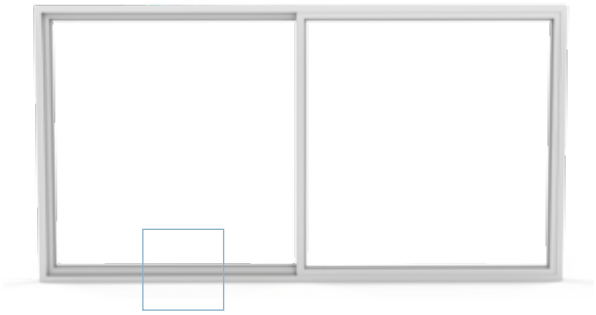
6 Double Frame - Fixed Jamb



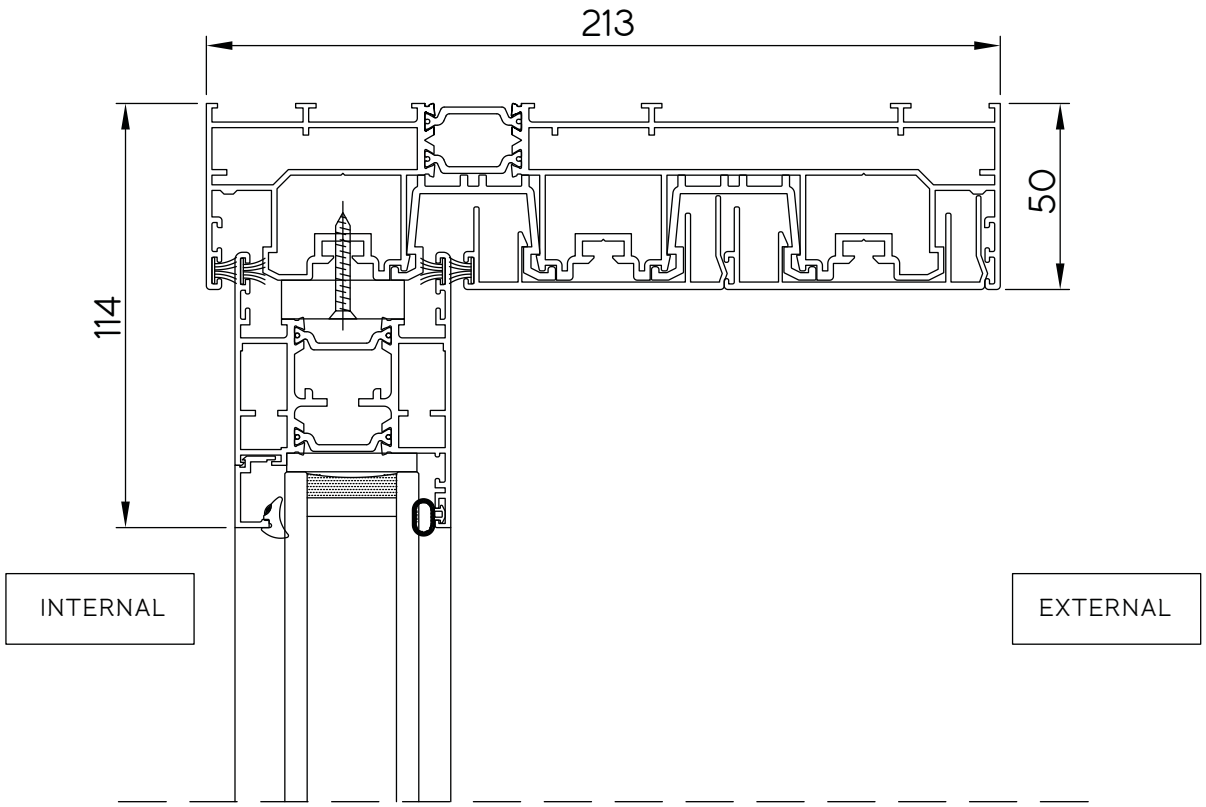


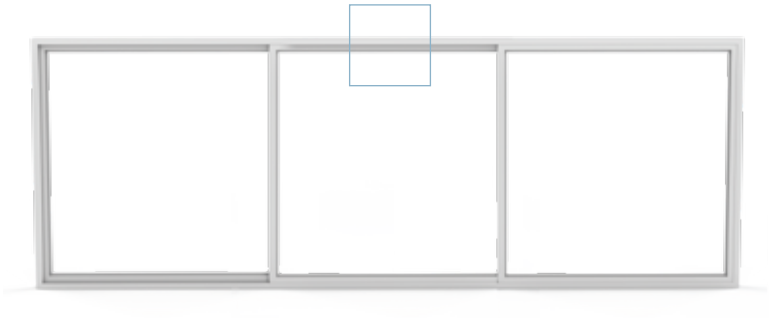
7 Double Frame - Drainage Details



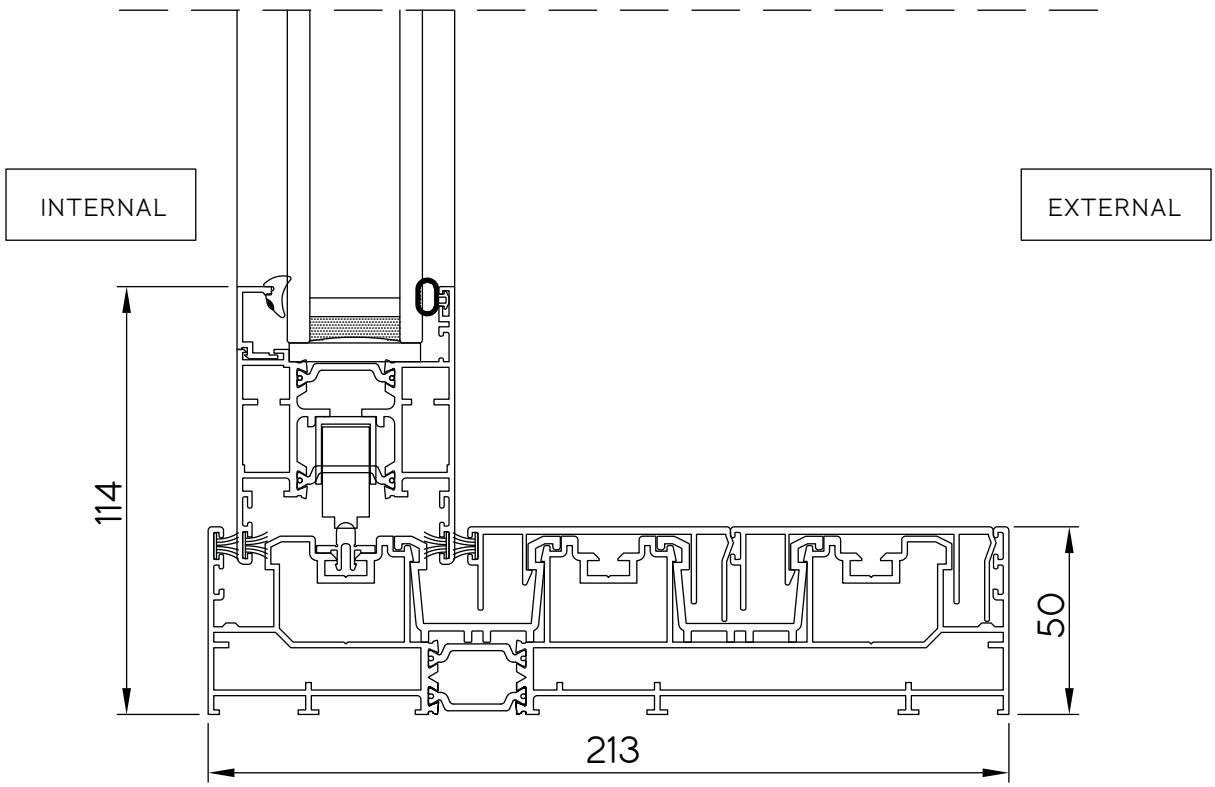


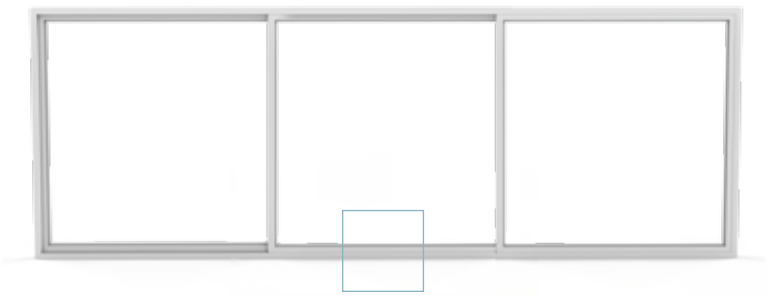
8 Triple Frame - Top Track



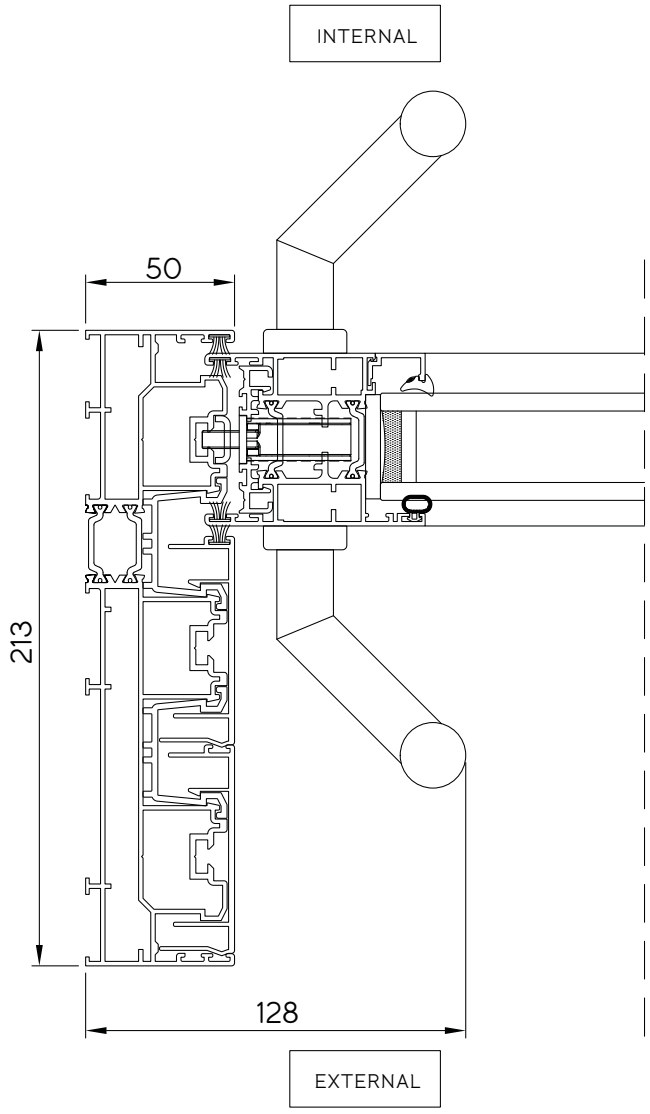


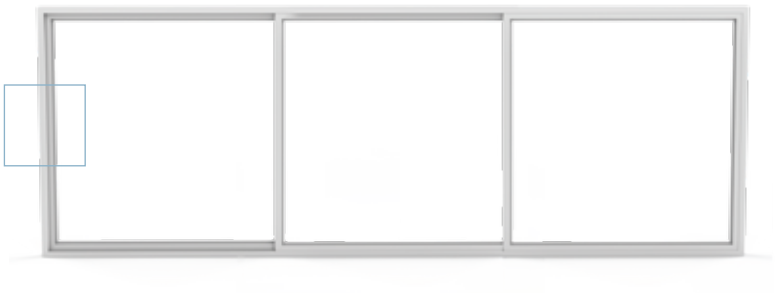
9 Triple Frame - Bottom Threshold



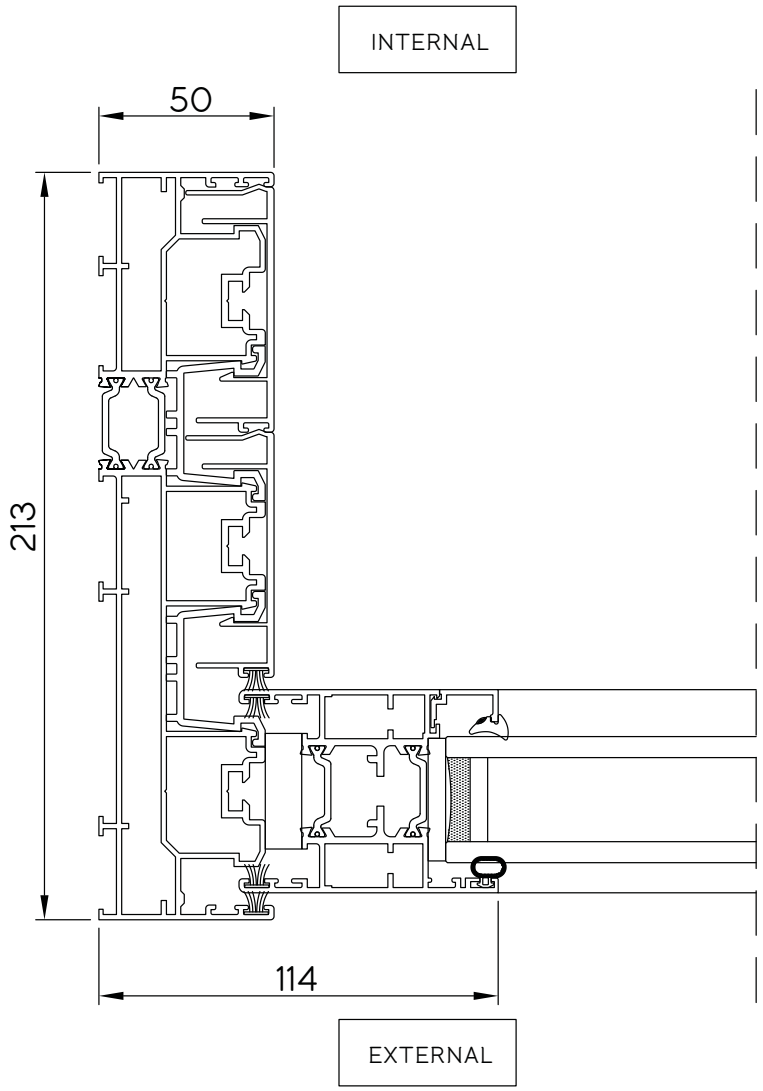


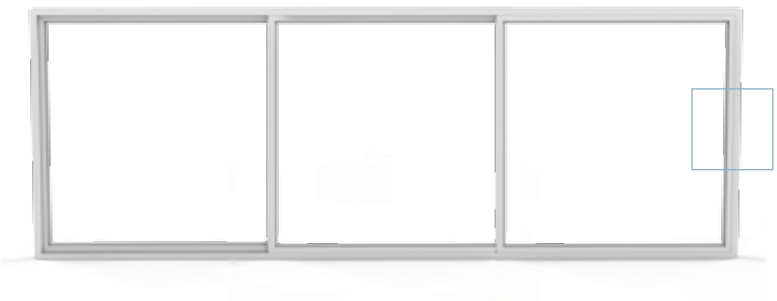
10 Triple Frame - Locking Jamb



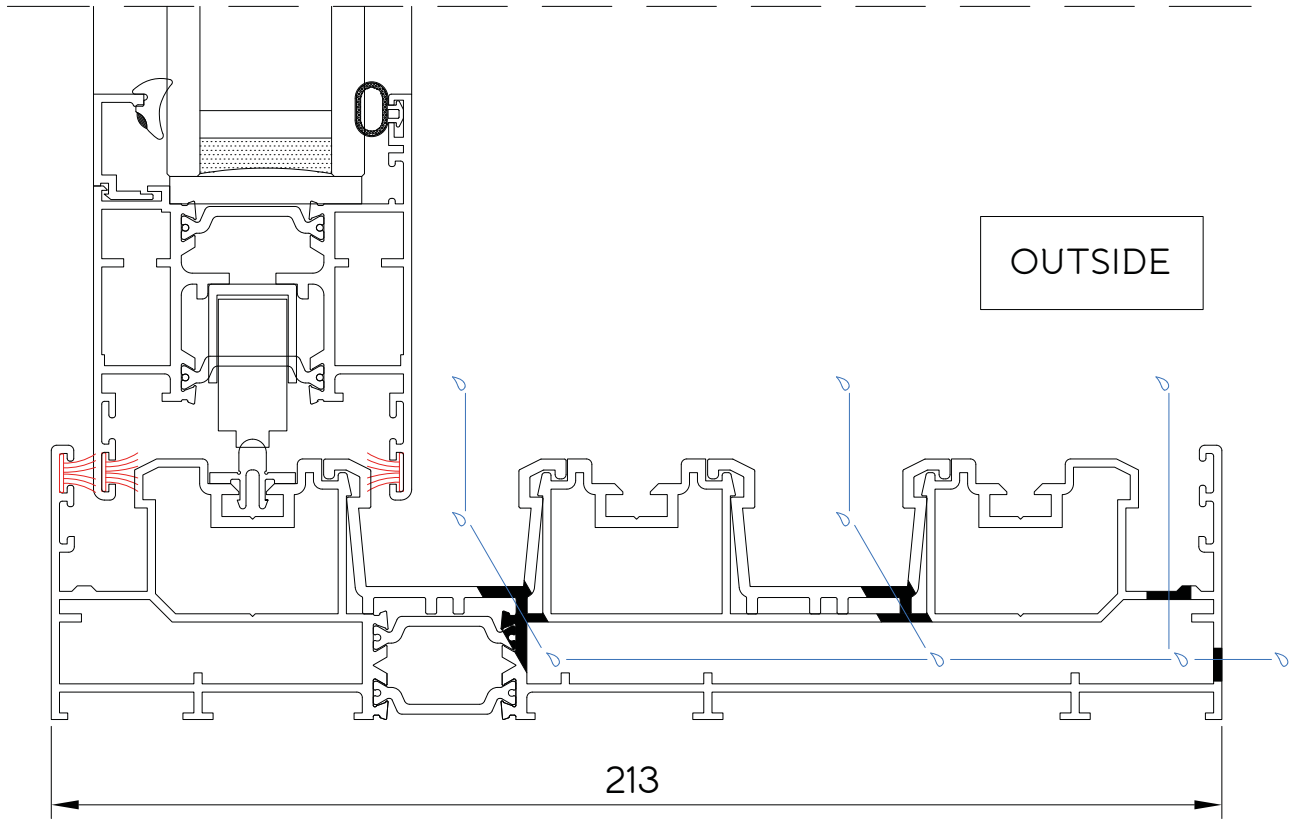


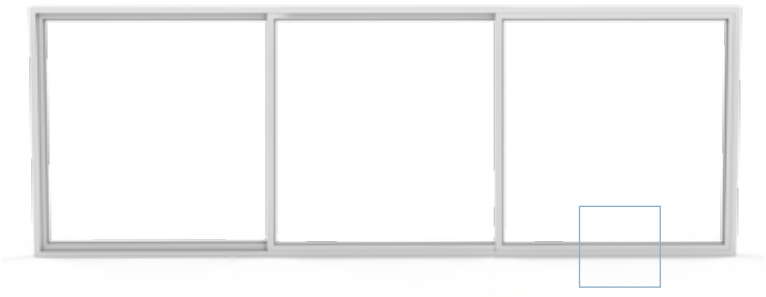
11 Triple Frame - Fixed Jamb



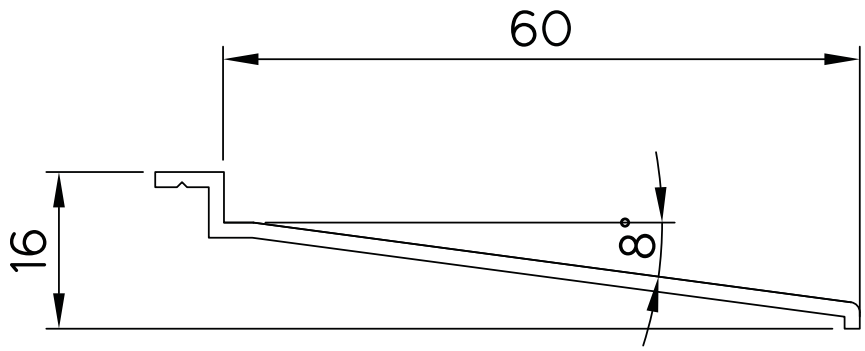


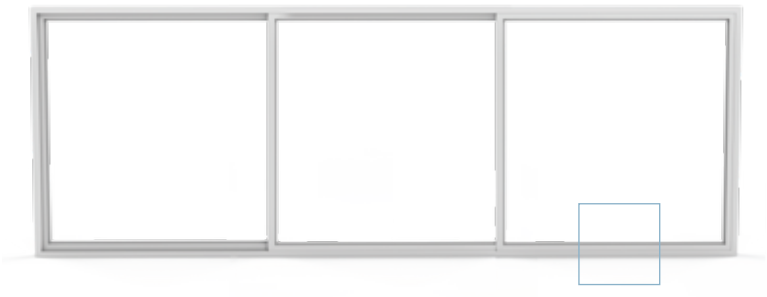
12 Triple Frame - Drainage Details



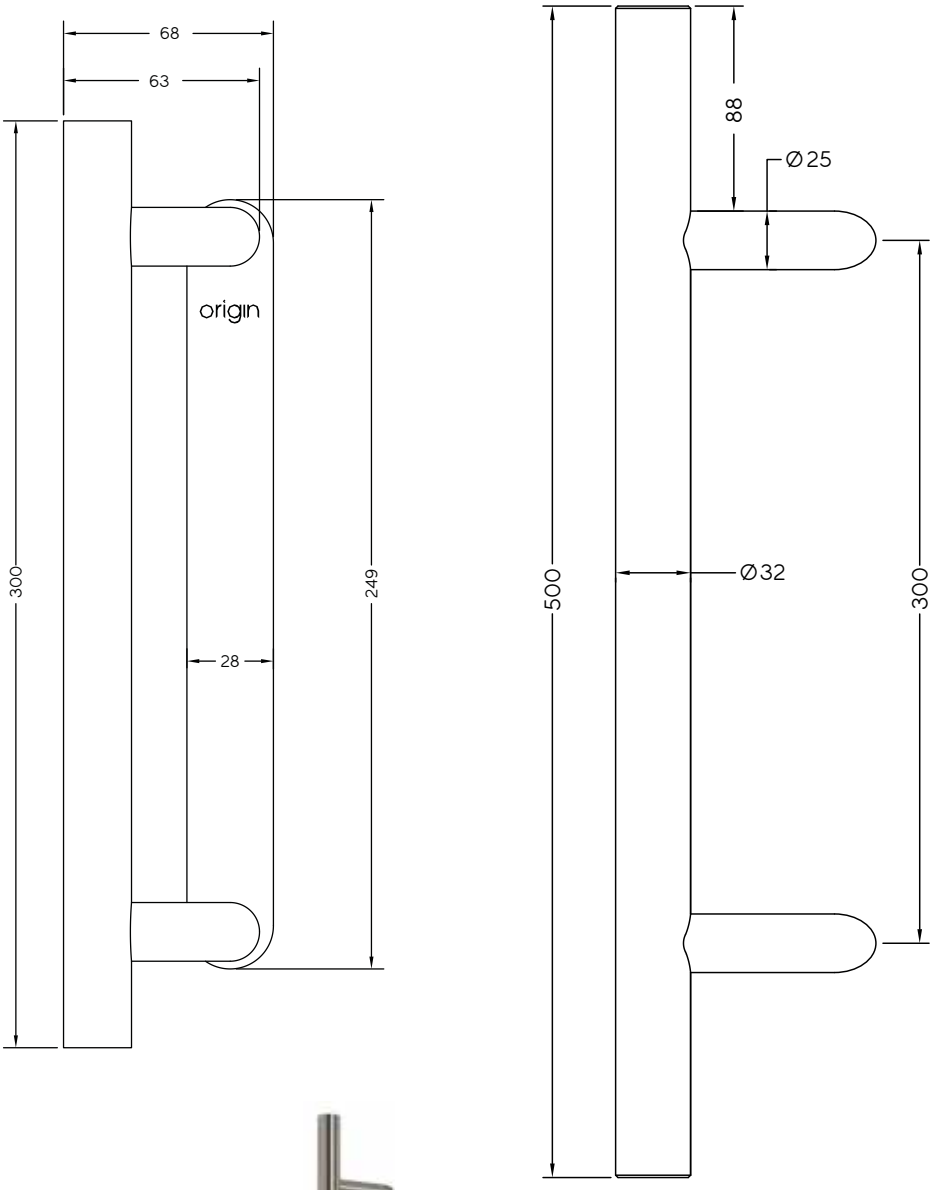


13 Drip Bar (optional extra)





14 Handles





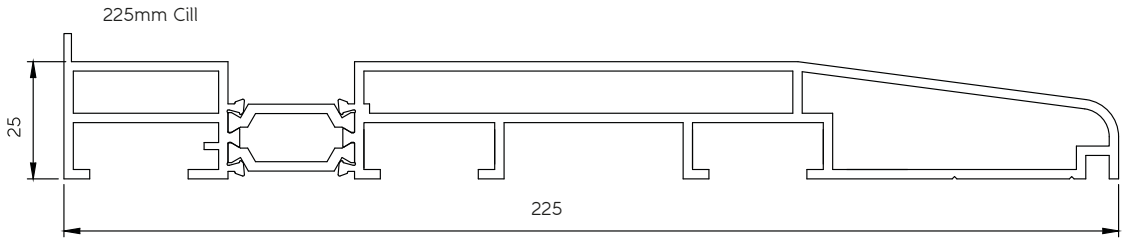
500mm all-in-one bar handle



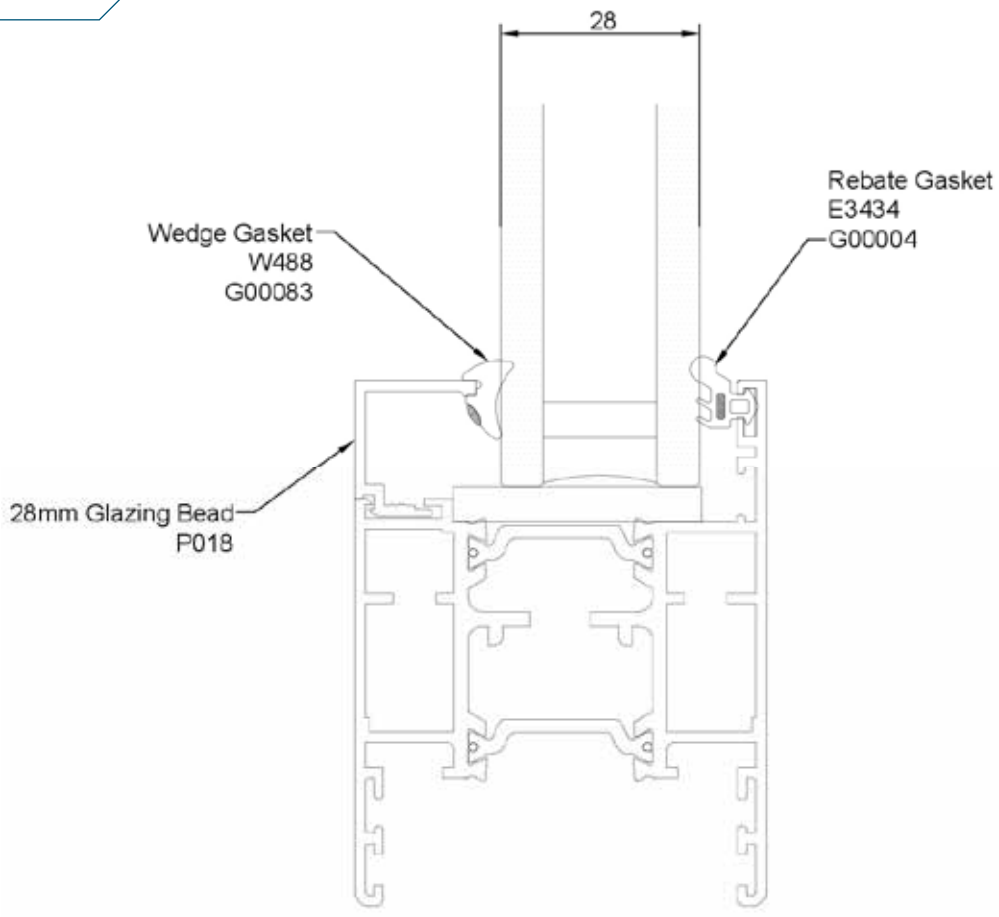
500mm offset bar handle

The OXXO and OXXXXO configurations are only available with the 500mm Offset Bar Handle

15 225mm Cill



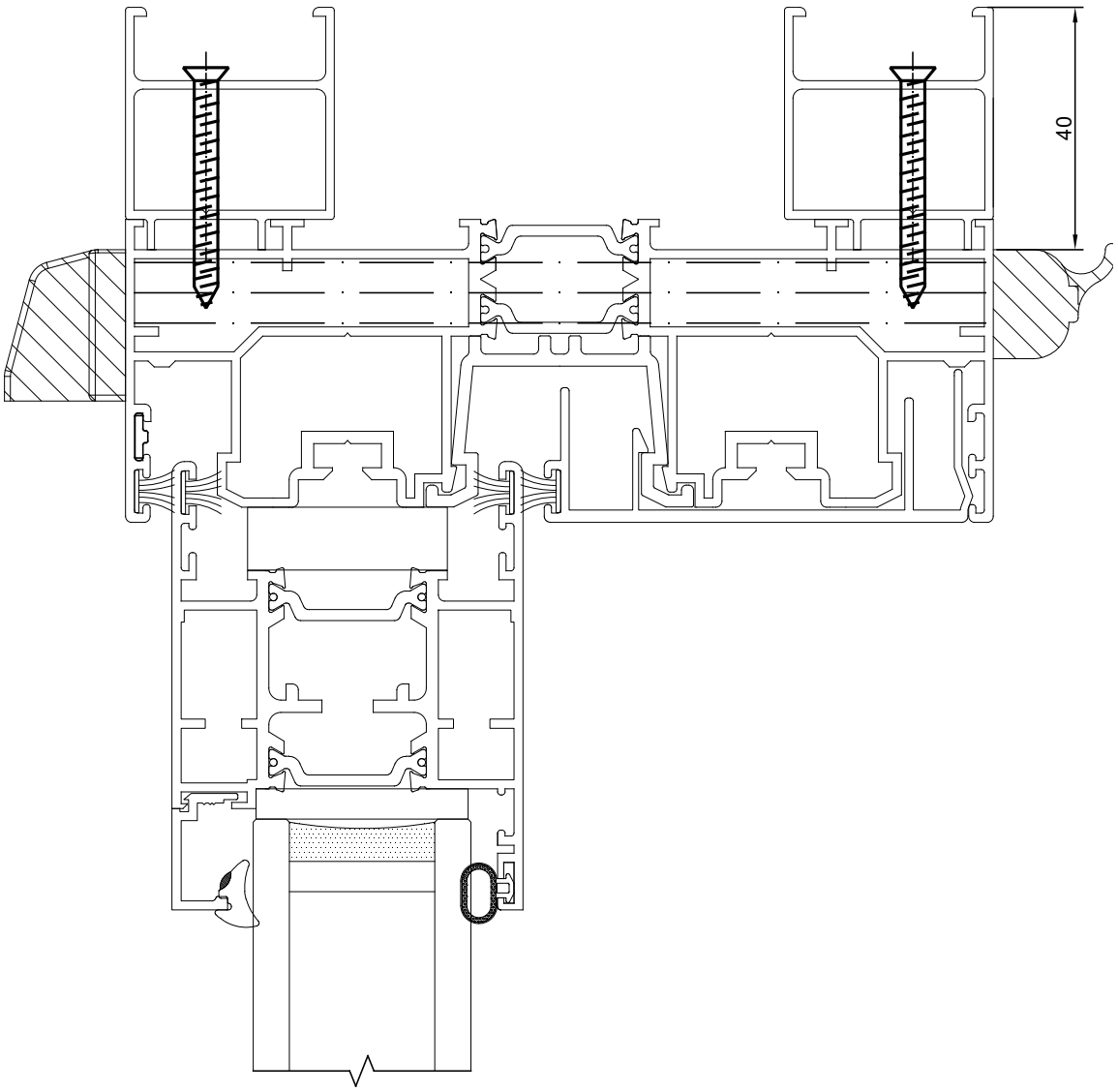
16 Glazing



17a Frame Extender (Double Frame)

The frame extender is fitted to the width of the frame.

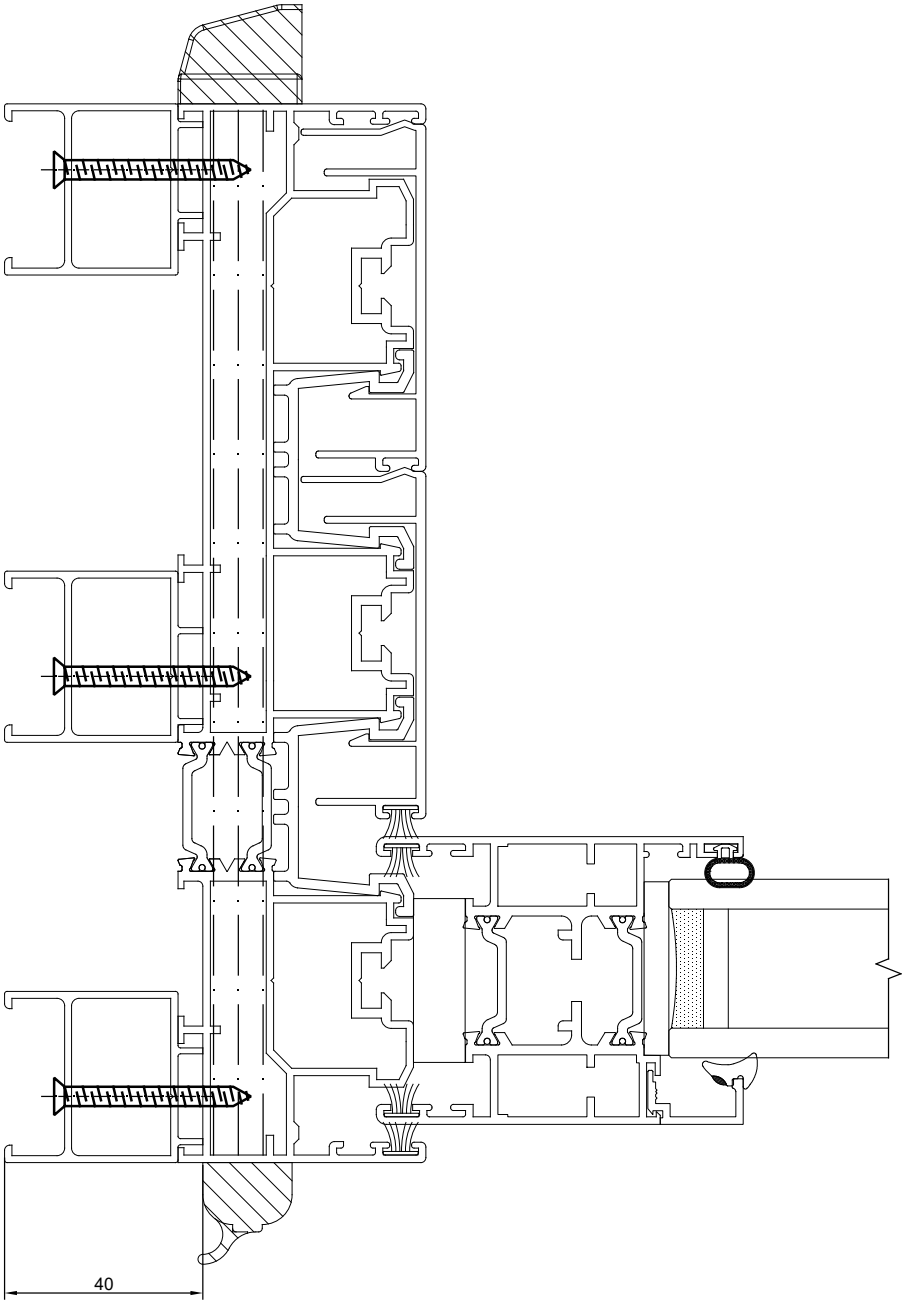
Each fixing is approx every 600mm.



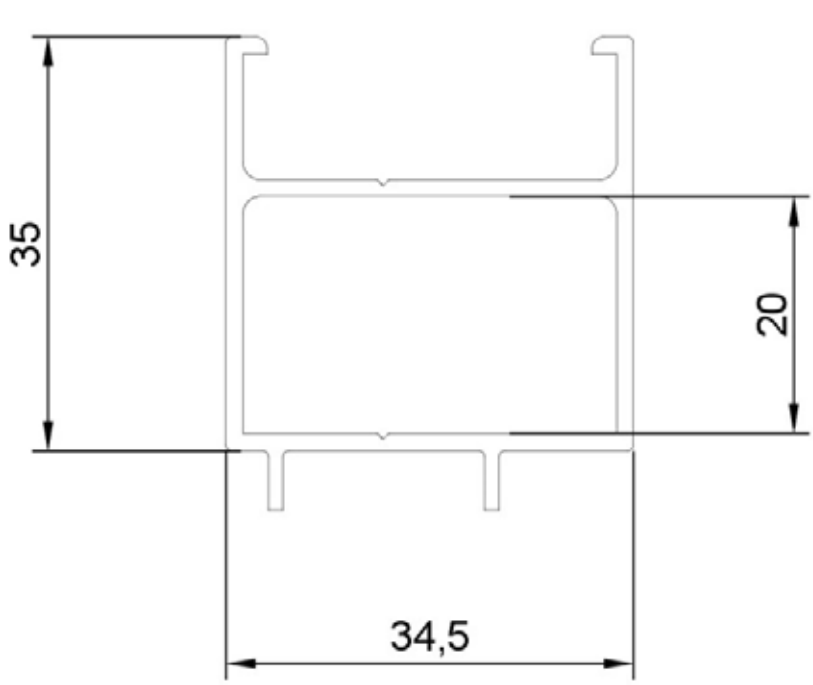
17b Frame Extender (Triple Frame)

The frame extender is fitted to the width of the frame.

Each fixing is approx every 600mm.

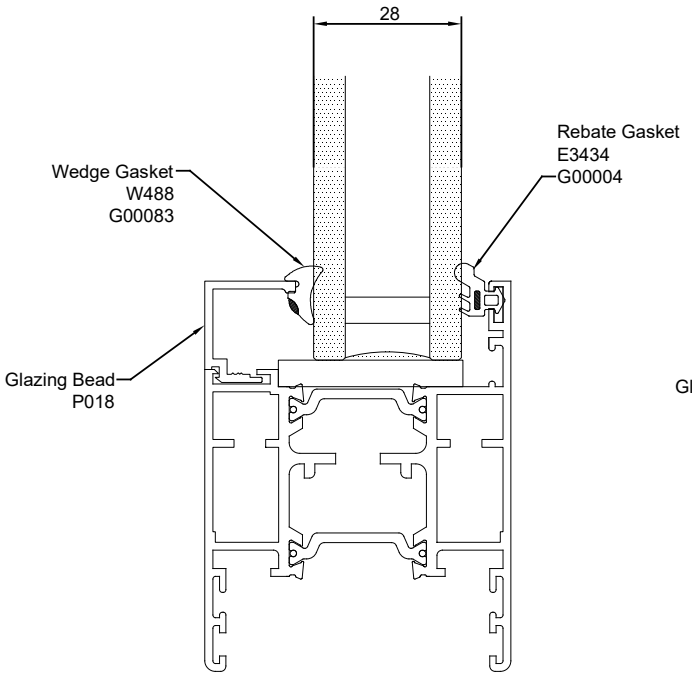


17c 35mm Frame Extender (Optional Extra)

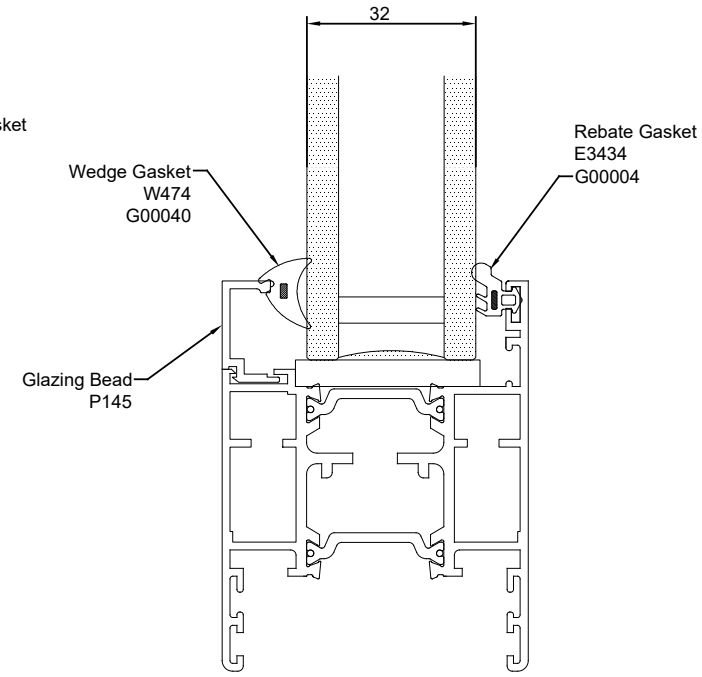


P914
35mm Frame Extender

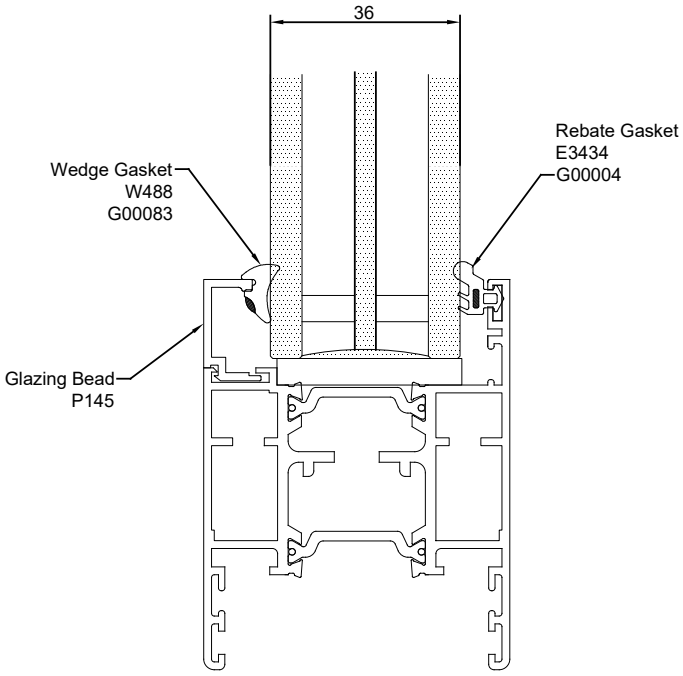
Glazing



28mm Glazing



32mm Glazing

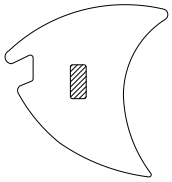


36mm Glazing

Gaskets

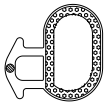
Wedge Gasket Part No.

W473P (G00037)



Rebate Gasket Part No.

B2006 (G00156 - G00163)



7.5mm Brush Pile Part No. PB065

FPG (G00136)

XO (1 sliding, 1 fixed)



Wedge Gasket Part No. W474

(G00040)



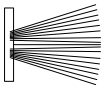
Closing Gasket Part No.

AF032 (G00114)



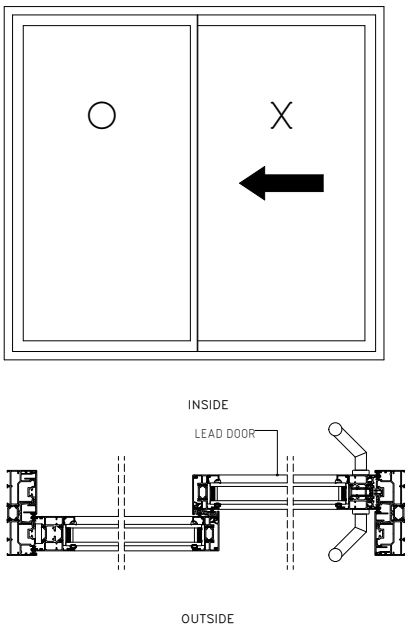
9mm Brush Pile

Part No. 1060393010025 (G00142)

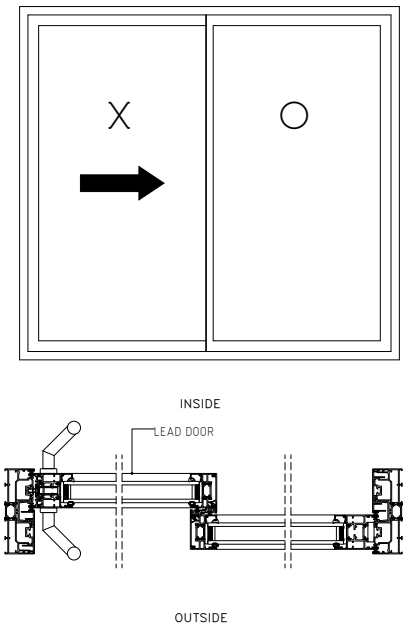


All Configurations

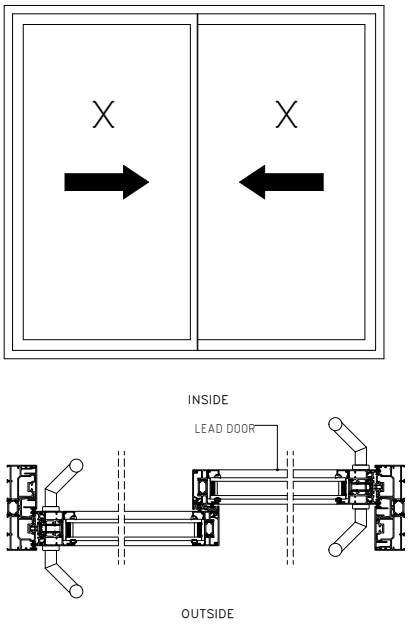
2 door configurations



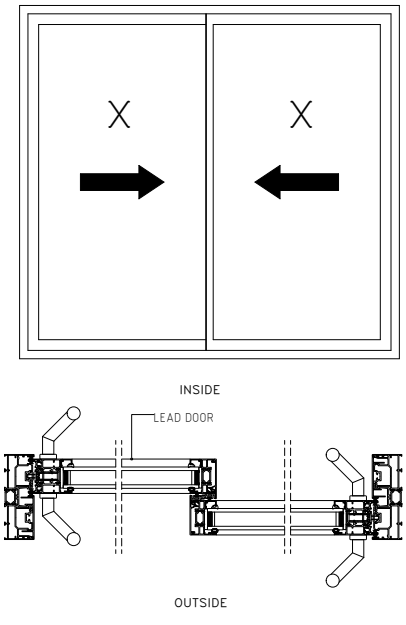
OX L (1+1 sliding left)



OX R (1+1 sliding right)

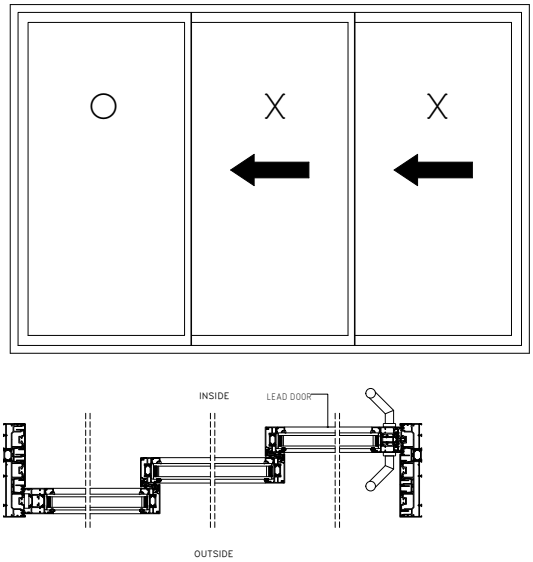


XX L (2+0 sliding left)

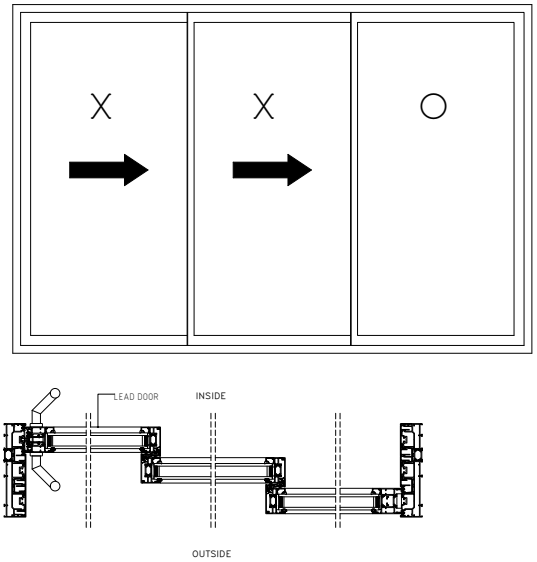


XX R (2+0 sliding right)

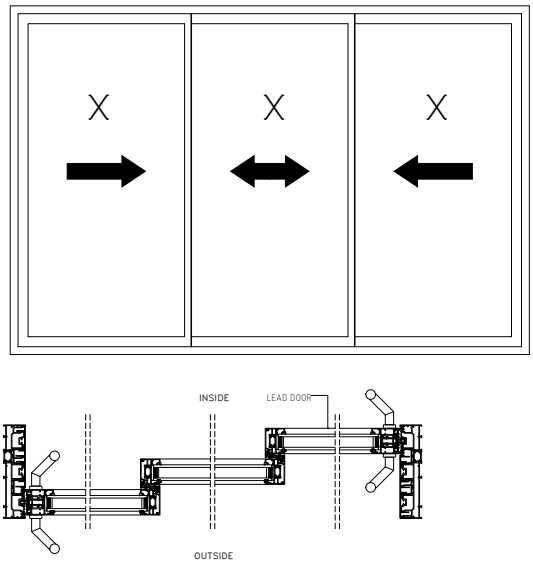
3 door configurations



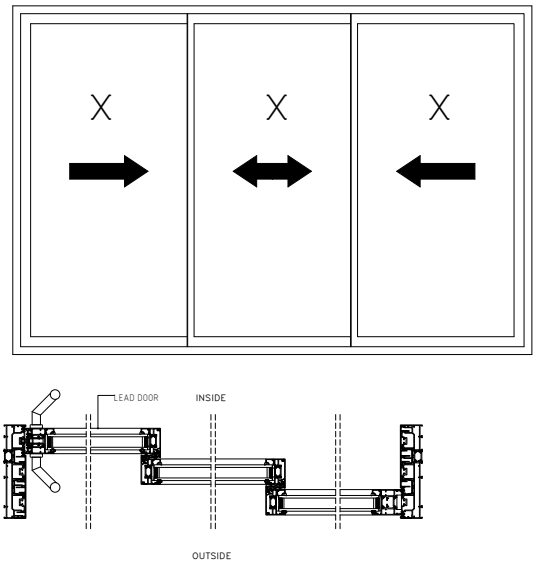
OXX L (2+1 sliding left)



XXO R (2+1 sliding right)



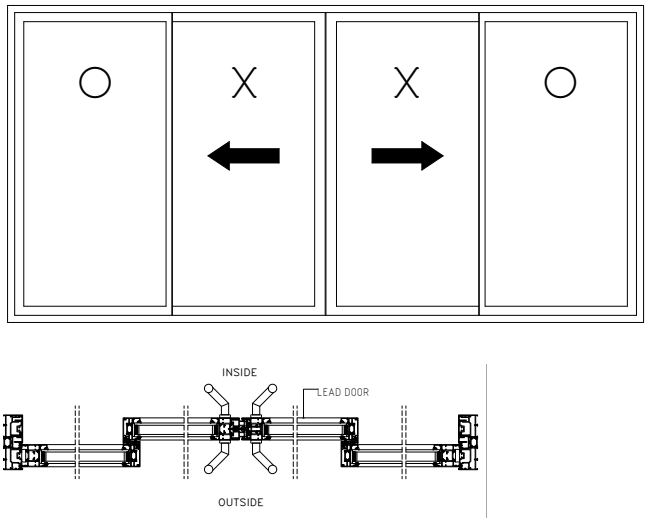
XXX L (3+0 sliding left)



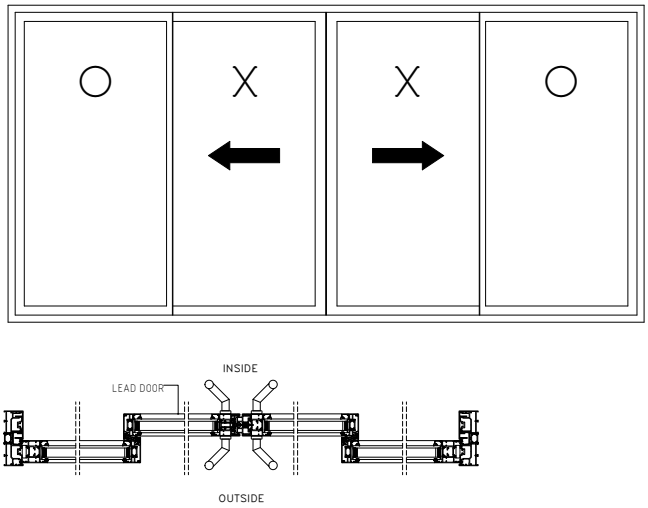
XXX R (3+0 sliding right)

All Configurations

4 door configurations

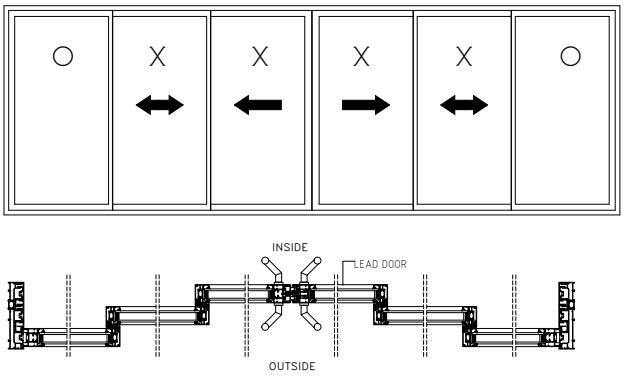


OXXO L (2+2 sliding left)

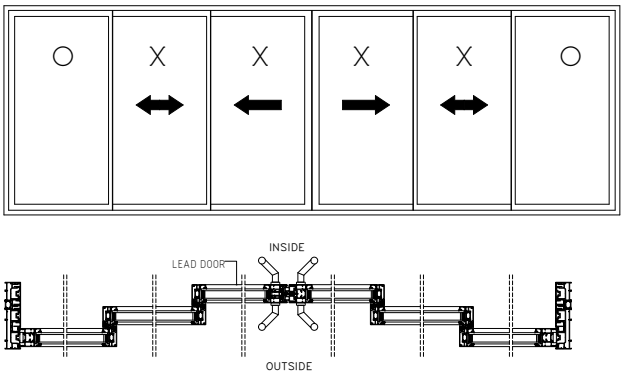


OXXO R (2+2 sliding right)

6 door configurations



OXXXXO L (4+2 sliding left)



OXXXXO R (4+2 sliding right)

Installation Guide

Preparation

1. Check all components have been delivered

2. Check opening sizes are correct to ordered size

3. Check the substrate is plumb, level and flat

4. The cill/ track must be supported across its depth to prevent twisting when the weight of the door is applied

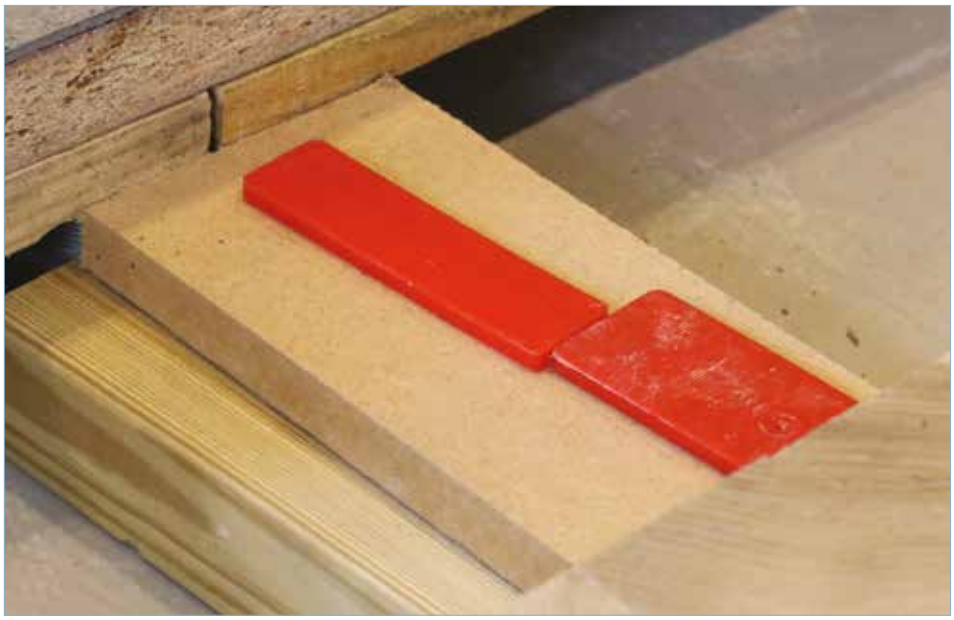


FIG 1

Frame Assembly

1. Lay out the frame components (as labelled) in your work area

2. Insert the alignment chevrons. Location – directly beneath brush gasket position

3. Apply sealant to the ends of the bottom track and attach the jambs

4. Align corners using the chevrons and then tighten using the 4mm allen key, making sure the joint is fully together. Once the corners are fully attached, fill the cleat locating and the screw holes with silicone (particularly at bottom track) (FIG3)

5. Wipe off the excess sealant

6. Attach the head to the jambs using the same process as described in points 2-5 above



FIG 2



FIG 3

Frame Install

1. Ensure that the bottom track/ cill is set flat and level and is supported along the whole length, making sure this is packed no more than every 500mm

2. If using a drip bar, fix and seal into position prior to installation into the opening, sealing along the bottom before fixing

3. Offer the frame into the opening. Pack down above the top 2 corners to hold the frame in place (FIG 4)

b. Check bottom track for level and make adjustments if necessary (FIG 5)

4. Jambs must be plumb and straight – pack as necessary when fixing to avoid bowing or twisting (FIG 6)

5. Using suitable frame fixings, secure the bottom track and both jambs into position. **NB:** *All fixings through the bottom track must be filled with an all-weather sealant before fixing*

6. Check the frame for square and adjust as necessary



FIG 4



FIG 5



FIG 6

Sash Install

1. If having a fixed sash, ensure the supplied sash packers are installed prior to installing the sashes

2 . Insert the sash into the top track as far as possible (FIG 7)

b. Swing the bottom in and lower, so that the wheels of the roller engage on to its runner (FIG 8)

3. Repeat for all sashes
NB: *It may be necessary to lift the top track slightly to allow the bottom of the sashes to cross the runner*

4. If applicable, locate the fixed sash into place and secure using the screws provided

5. Ensure all sashes are running smoothly

6. Ensure that sashes are plumb, level and locking in line and working (FIG 9)

7. Small adjustments can be made using the adjustment screws on the roller using a PH2 long screwdriver. Adjustment is located in the hole at the bottom

8. The top track can now be fully secured. Care should be taken to ensure it is not bowed or twisted and is level along the entire length



FIG 7



FIG 8



FIG 9



FIG 10

Glazing

1. Start with the outside sash and work inwards

2. 4mm glazing packers should be positioned directly above each roller

3. Secure a 4mm packer in the glazing chamber and install the bead on the side of the sash behind the adjoining sash interlocker

4. Lift glass into position. Pack appropriately, making sure the sash remains square

5. Insert a short length of wedge gasket into the previously installed bead to make sure it remains in position

6. Install the remaining beads and insert the wedge gasket along all four sides

7. Repeat the steps above until all glass units have been installed

Finishing

1. Insert cover trims into jamb and track (if applicable)

2. Insert end caps into prepped holes on the interlock (inside and out) and install the supplied screws. The small brush strip fits to the back of the cap before fixing

3. Fix handles into position (FIG 11)

4. Insert the shoot bolt keeps into the top and bottom track and insert the provided screw into the slotted hole. Check the sash locks into place smoothly and the side to side movement is kept to a minimum. Once adjustment is complete, install the remaining screws

5. With the doors closed, mark the track (non-permanent mark) 150mm in from each side of each sash. Slide open the door and fix the anti-lift blocks into position, inline with the previously made marks

6. Open the locking sash to the fully open position (being careful to allow space for the operators fingers). Locate the door stops on the bottom and top of the sash and fix into place using the supplied screws (FIG12 & FIG 13)



FIG 11



FIG 12



FIG 13

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...

bsi. ISO 9001 Quality Management FS 584084

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.

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.

PAS 24:2016 is only available on the OS-77.

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 45001 - Health and Safety...

As with everything Origin, we go above and beyond when it comes to health and safety best practices.

ISO 45001 is a standard we achieved in 2019, and it recognises our commitment to employee safety, reduces workplace risks and creates a better, safer working condition.

We have spent time reviewing all the activities that go on within the offices, manufacturing centres and warehouses, and have created a full risk log which will link up to our current risk assessments. These are being reviewed one by one to ensure we are minimising risks as much as we can to keep Origin employees, and anyone who may be affected by these risks, safe. Employees working in the factories are actively encouraged to put forward risks and hazards from their observations, which is fed back so they can be actioned to be rectified or developed into an improved method of operating.

We share knowledge through inter-departmental health and safety committee meetings, risk assessments, regular safety and environmental checks and training to ensure that we are up to date with legislation and best practice.

Our bespoke Safety, Health and Environmental (SHE) Portal has provided us with a place to document, set reviews and monitor operational risks across Origin. This portal is an ongoing project that we will continue to work on, allowing us to ensure that safety at Origin is at the best standard we can achieve.



We are People focused and aim to keep people safe, both inside and outside of Origin, providing awareness, training, instruction and information to operate safely.

Contact

Accounts

t 08448 802 371 or 01494 416 895 **e** Finance@origin-global.com

Marketing

t 08448 802 374 or 01494 416 897 **e** Marketing@origin-global.com

Sales Operations

t 0808 168 5816 or 01494 686 868 **e** OrdersNorth@origin-global.com

e OrdersSouth@origin-global.com

Solutions

t 08448 802 373 or 01494 416 896 **e** Solutions@origin-global.com

Fleet and Logistics

t 08448 802 378 or 01494 416 898 **e** Logistics@origin-global.com

origin

DOORS AND WINDOWS

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

t 0808 168 5816
e enquiry@origin-global.com
w www.origin-global.com

Origin Northern Centre of Excellence,
Taurus Park, Europa Boulevard, Westbrook,
Warrington, Cheshire, WA5 7ZT

t 01925 907 907
e enquiry@origin-global.com
w www.origin-global.com

OFDL_18.114.6