



origin

Spec Guide

OB72 Single | French | Bi-Fold



Spec Overview

OB72 External Door



Profile Specification

Frame Depth	75mm
Hinge Jamb	45mm
Sash Depth	59mm
Sash Width	72mm
Hingestile Glass-to-Glass Sightline	154mm
Lockstile Glass-to-Glass Sightline	164mm
Mullion Sash and Lockstile Sightline	229mm
Mobility Threshold Height	20mm
Non-Weathered Threshold Height	50mm
Weathered Threshold Height	67mm
Glazing Options	28 and 32mm



Features

The features of the OB72 External Door are really what makes it a design statement, as well as the right choice when it comes to thermal performance.

- Soho, Gallery and Georgian style aesthetics available
- Exceptional performance - U-Values as low as 1.1 W/m²K
- Chamfered bead internally and externally
- 1-Star Diamond Cylinder with Multipoint lock
- Open-in or open-out
- Solid zinc hinges
- Concealed running gear, featuring a unique freeglide carriage assembly, using acetal rollers with sealed stainless steel bearings on an 8mm hardened stainless steel axle
- Colour-coded gaskets
- Colour-coded metal interlock caps
- Available in over 150 RAL Colours
- Marine grade powder coating
- Up to a 20-year guarantee on parts*

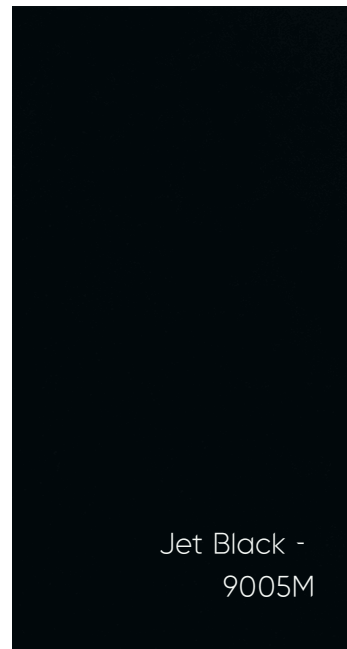
*Visit [origin-global.com](https://www.origin-global.com) for Terms and Conditions



Colours

OB72 is available in the following popular colours, along with Hipca White - 9910G/M, and in over 150 special RAL colours. All colours are available with an optional Marine finish.

Visit origin-global.com for up-to-date lead times.



Options and Extras

OB72 has an extensive selection of flexible design options to fully customise any living space.

- Configure as a **Bi-folding, Single, French** and **Moving Corner Posts** at 90° and 135°
- Double and triple-glazing
- Midrail glazing and glazing bars
- All Cills (inc. Face Drainage and Concealed Drainage)
- Door-to-Window T-Coupler
- **3-Star Diamond Cylinder** and Keyed Alike
- Fixing straps
- Stainless-steel or colour-coded running gear
- Hinges in stainless steel finish or colour-coded
- Door-to-window coupling available
- Trickle vents available in either 2500EA, 4000EA or 5000EA
- Door restrictors
- Fingerpull handle (colour-coded)
- 35mm Frame extender
- Weather bar (available on open-in Single and French)



Handles and Hardware Options

Handles*

Lever Handles:

Black | Chrome | White

Premium Stainless Steel:

Colour-coded | Stainless Steel

D-Handle:

Colour-coded | Stainless Steel Finish

Slave Handle:

Colour-coded | Stainless Steel Finish

**These are popular handles. Please see OSS for additional options, including thumbturn.*

Hardware

Fork:

Colour-coded | Stainless Steel Finish

Door Restrictors:

90° | 135°

Hinges:

Colour-coded

Magnetic Keeps:

Colour-coded

Trickle Vents:

Anthracite | Black | White

System Options

Component

Flat Trim: 25mm | 31mm | 50mm

Stepped Door-Window Trim: 31mm

Concealed Drainage*: 155mm | 180mm

Frame Extender: 35mm

Weather Bar: *(non-bi-folding configurations only)*

**Only available with a cill*

Thermal Matrix

Glazing	Centre Pane U-Value	Width (mm)	Make-Up	Weight (kg/m ²)	Coating Example	U-Value (W/m ² K)
Double	1.2	28	4 / 20 / 4	20	Planitherm Total +	1.5
Double	1.2	28	6 / 16 / 6	30	Planitherm Total +	1.5
Double	1.1	28	4 / 20 / 4	20	Planitherm ONE	1.4
Double	1.0	28	6 / 16 / 6	30	Planitherm ONE	1.4
Triple	0.9	32	4 / 10 / 4 / 10 / 4	30	2 x Total +	1.3
Triple	0.8	32	4 / 10 / 4 / 10 / 4	30	2 x ONE	1.2
Triple	0.6	32	4 / 10 / 4 / 10 / 4	30	2 x ONE	1.1

Size Limitations

Detail

Min. Sash Height (with Multi-Point Lock)	400mm (1,000mm)
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Max. Sash Height (with Multi-Point Lock)	2,846mm (2,924mm)
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Min. Sash Width	350mm
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Max. Sash Width	1,200mm
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Max. N ^o . Sashes	12
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Max Set Width (with track connectors)	6,000mm (27,600mm)
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Min Set Height	524mm
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Max Set Height	3,000mm
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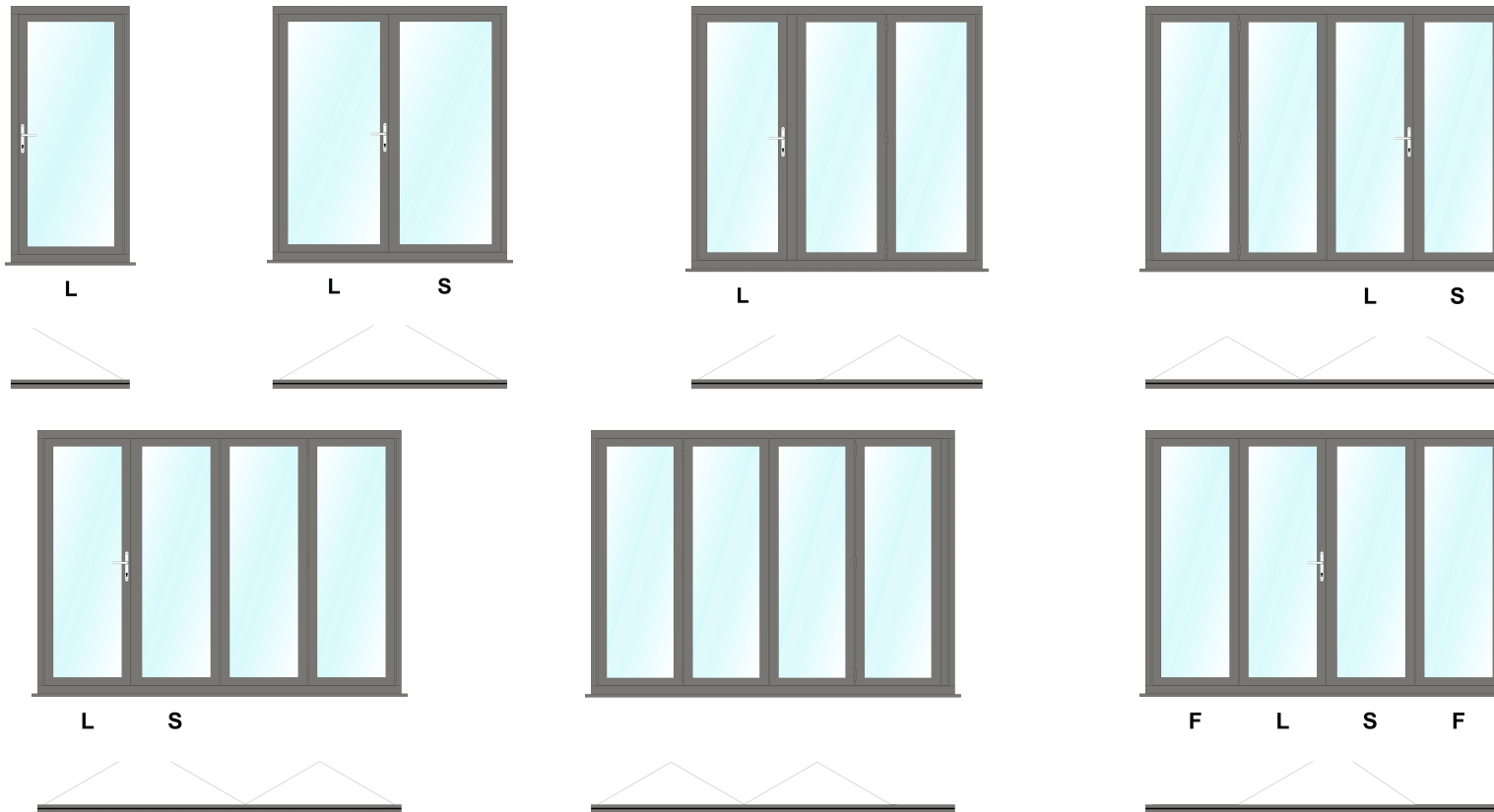
Glazing Options	28 and 32mm
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Flush Track Floor Level Heights*

Detail	Internal	External
Jamb Render Margin (Open In / Open Out)	40mm / 25mm	25mm / 40mm
Non-Weathered (Open In / Open Out)	47mm / 47mm	47mm / 47mm
Top Tracker Render Margin (Open In / Open Out)	47mm / 60mm	60mm / 47mm
Trickle Vent Plaster Margin (Open In / Open Out)	14mm / 18mm	18mm / 14mm
Trickle Vent in Add-On Render Margin (Open In / Open Out)	17mm / 17mm	15mm / 15mm
Trickle Vent Render Margin (Open In / Open Out)	12mm / 18mm	18mm / 12mm
Weathered (Open In / Open Out)	62mm / 47mm	47mm / 62mm
*For all bi-folding configurations excluding cills		

Configurations

OB72 is available in the following popular and special configurations.



Specials

- 1+FL
- 1+1+FL
- 1+FL+FL
- 3+FL
- 1+1+FL+FL
- 3+FL+FL
- FL+1+1+FL+FL



Handles

Handle Options

Sophisticated in design, the refined suite of handles have been engineered to instil confidence through its looks, touch and operation, and guarantees to draw you in from the very first interaction.

Specify from either our Lever Handle, available in three colourways, or our Stainless Steel handle, which can colour-coded to any RAL option.

LEVER HANDLES

STAINLESS STEEL

D & SLAVE



Lever Handles

OB49 is accompanied by our lever handle as standard - available in Black, Chrome and White.



Stainless Steel

OB49 is accompanied by our Lever Handle as standard, however should a bespoke colour be desired our Stainless Steel handle below can be colour-coded to any RAL option.



Stainless Steel

Choose from a selection of elegant handle styles that have all been designed and manufactured with the same care and dedication as each of our door components.

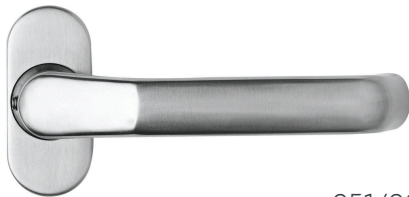
Our stainless steel handles can be specified in either stainless steel or can be colour-coded to your External Door.



253/280



301/280



251/280



303/280



253/270

Slave and D-Handles

Slave and D-handles are secondary handles used to open and guide the doors along the track. They have been designed by Origin to withstand a pull of 1,600 Newtons, and just like the main handles, they can be colour-matched or chosen in a stainless steel finish.

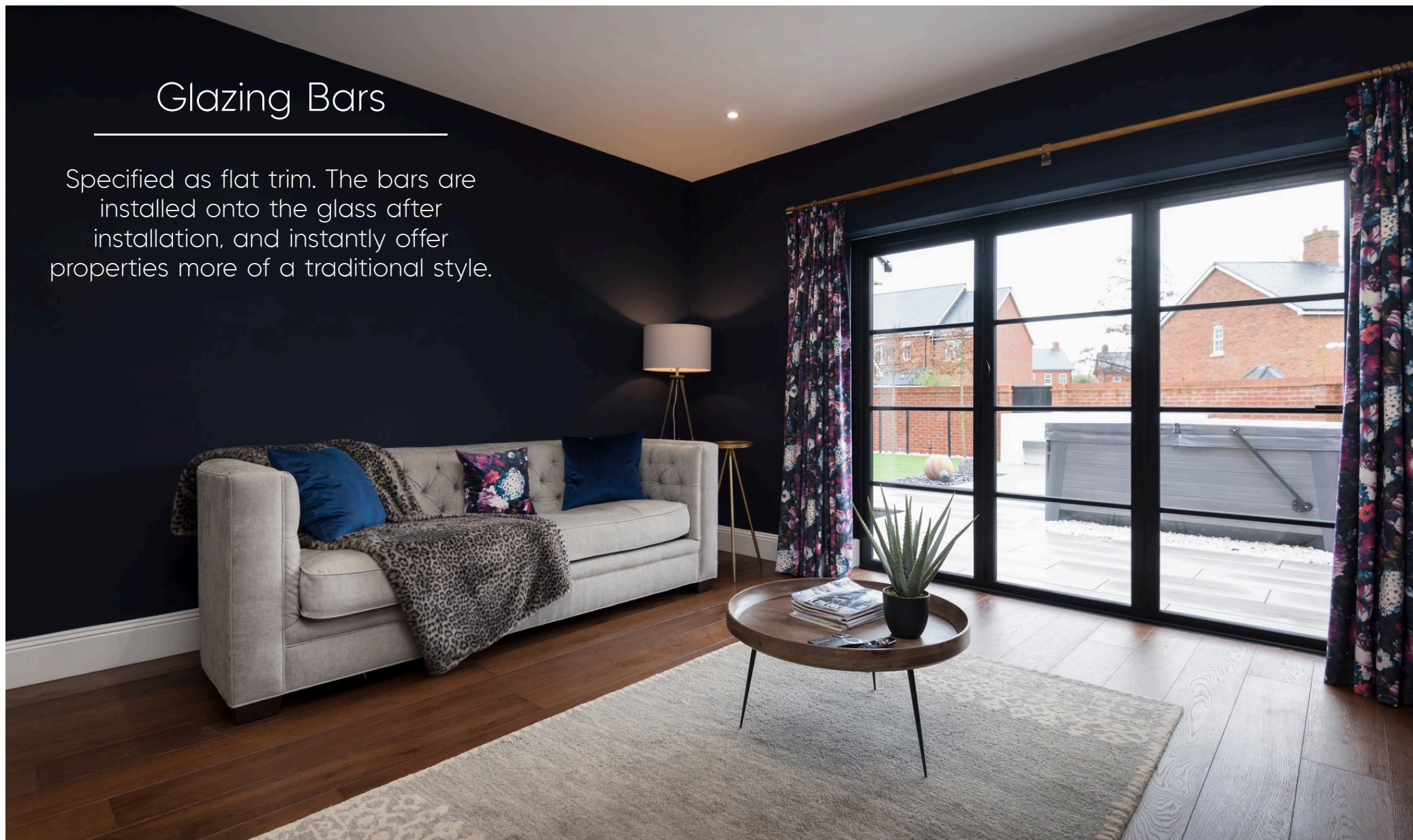




Options

Glazing Bars

Specified as flat trim. The bars are installed onto the glass after installation, and instantly offer properties more of a traditional style.



A close-up photograph of a door hinge mechanism. The hinge is made of polished metal and is mounted on a dark-colored door frame. The door is slightly ajar, revealing a light-colored wooden floor. The hinge has several screws and a central pin. The background is blurred, showing more of the door and the floor.

Thresholds

Weathered, non-weathered and mobility thresholds are available, so you can pick the right option to cater for your customer's needs.

Door Restrictors

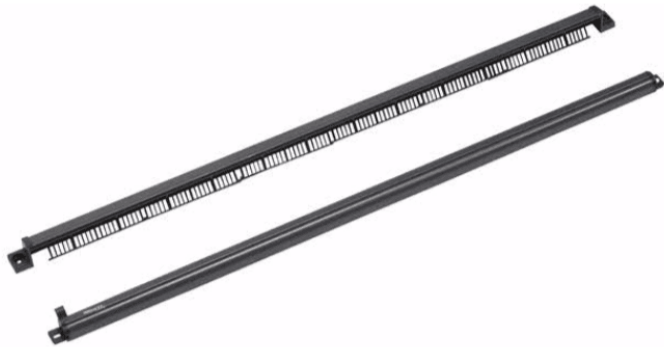
We offer either a 90° or 135° door restrictor that will limit the door's opening to the respective angle.



Trickle Vents

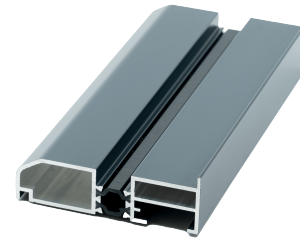
Trickle vents have to meet the minimum air flow rates as defined in the British Building Regulations.

Should it be required, OB72 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.

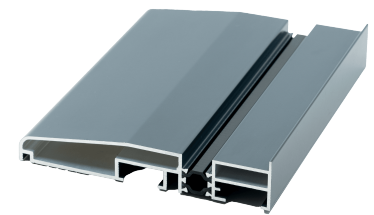


Cills

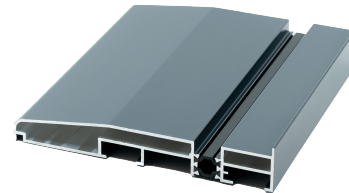
Choose from four powder coated cill options to complement OB72.



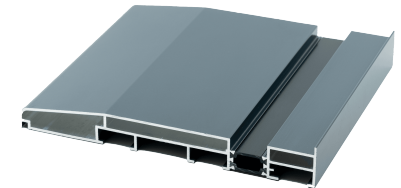
95mm



155mm



180mm



225mm



Security

Security Features

OB72 complies with and exceeds all required security accreditations, achieving PAS 24. It features a bespoke 8-point locking system and includes chamfered 20mm linear bolts and deep throw 25mm security hooks.

- PAS 24 certified
- Bespoke Multi-Point lock
- 1-Star Diamond Cylinder as standard
- 3-Star Diamond Cylinder (optional upgrade)





Performance

Product Performance

All Origin products are built to last, and thoroughly tested, which is why we offer an industry-leading guarantee of up to 20-years on parts.

OB72 has been designed for maximised thermal efficiency, and has been engineered with a polyamide thermal break.

Slim frames, maximum viable glass coverage and airtight seals all contribute to ensuring that OB72 can meet a highly efficient 1.1 U-Value with triple-glazing.

Performance, Testing and British Building Regulations*

PAS 24

2016

Secured By Design

Yes (< 2,500mm tall)

Air Permeability

Class 4, 600 Pa

Water Tightness

Class 9A, 300 Pa

Wind Loading

Class A3, 1200 Pa

BS 6375 Parts 1, 2 and 3

Passed 50,000 lead sash cycles and 10,000 full cycles, equating to 25-years of use.

New Build Limiting Value*

1.6 W/m²K

Replacements*

1.4 W/m²K

Energy Rating

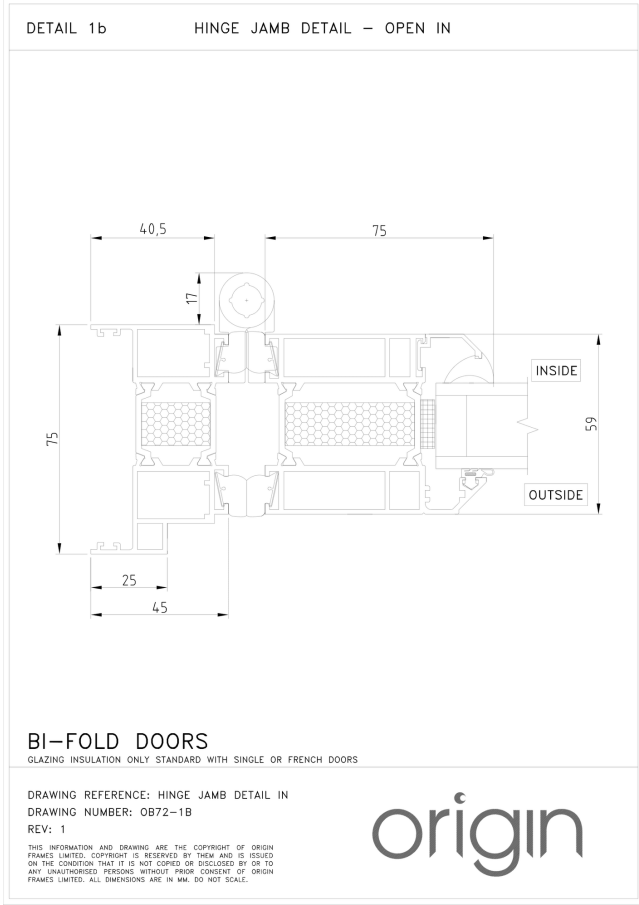
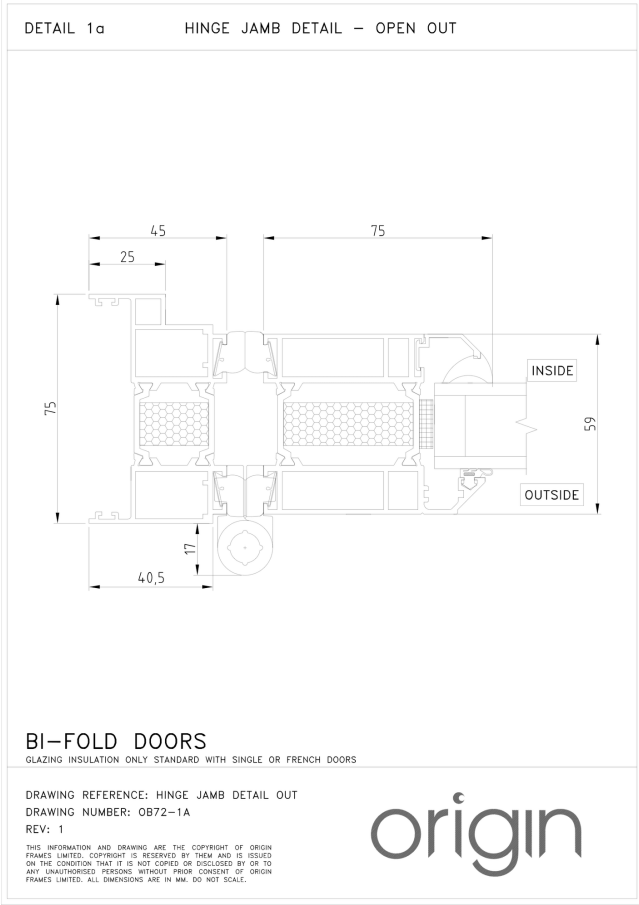
C or better

**All doors must conform to these requirements*

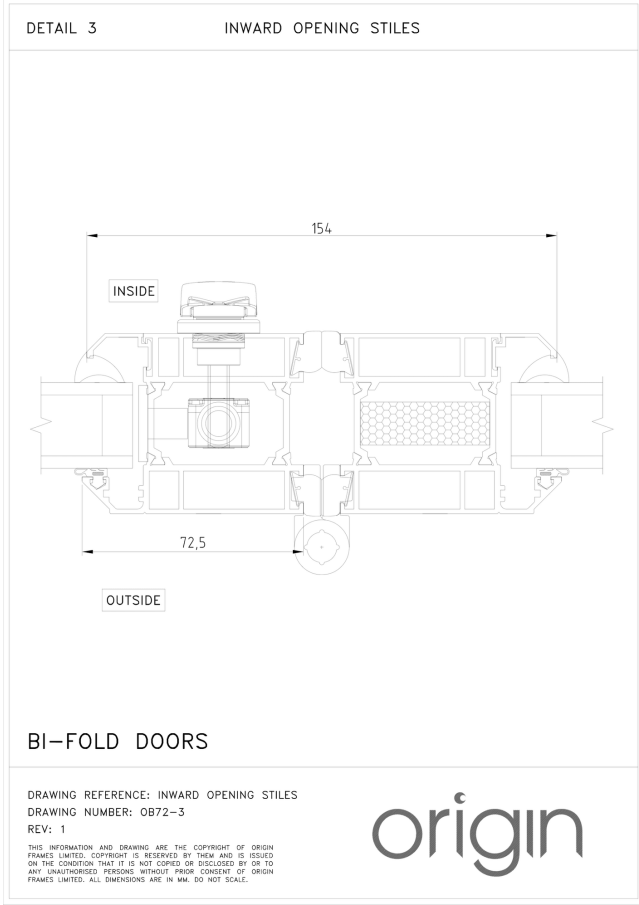
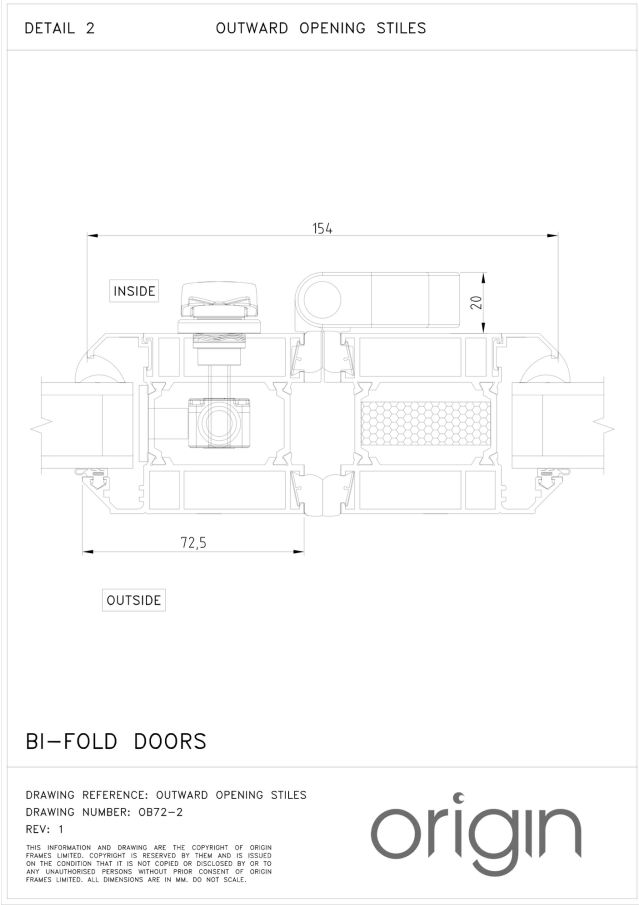


Tech Drawings
[Download](#)

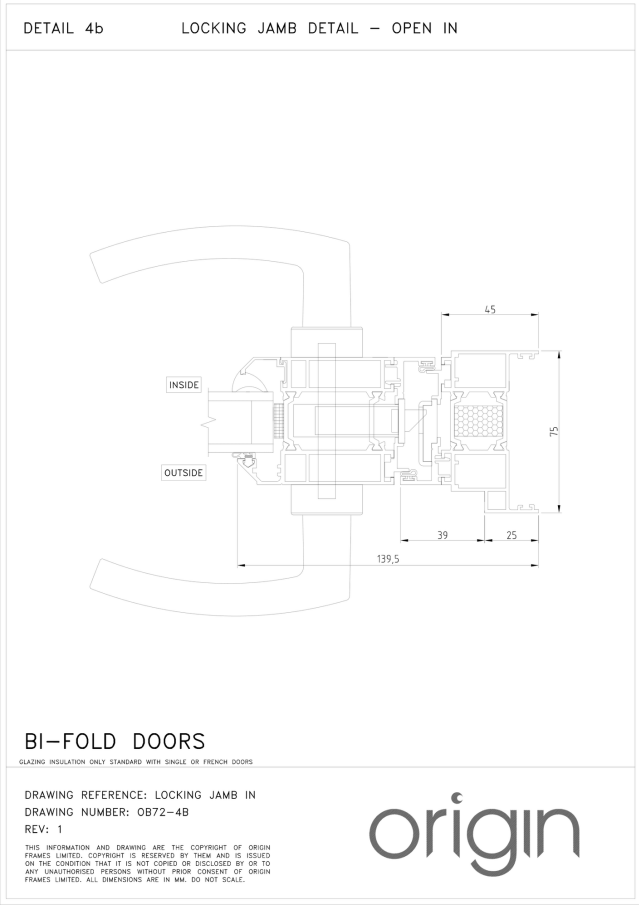
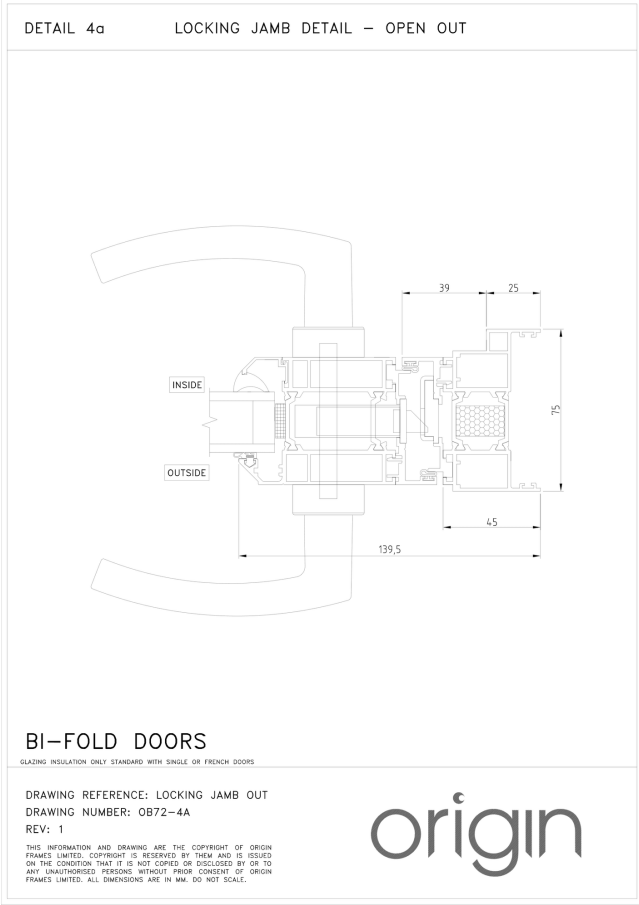
Hinge Jamb



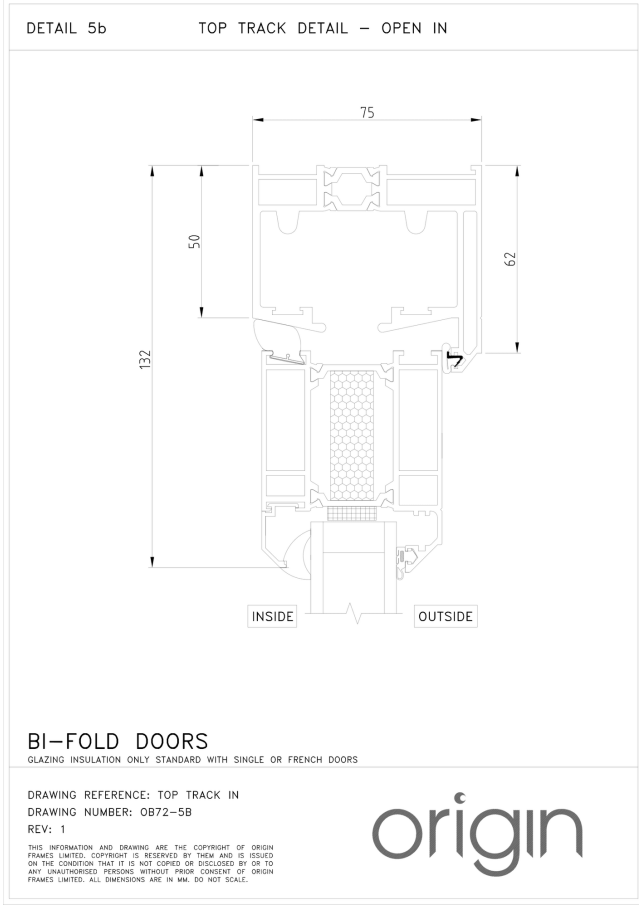
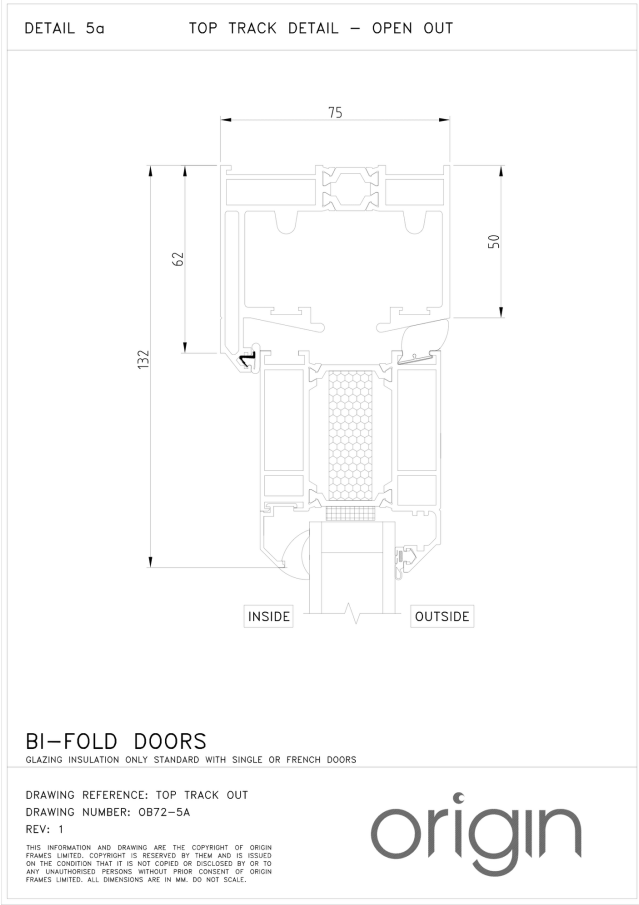
Opening Stiles



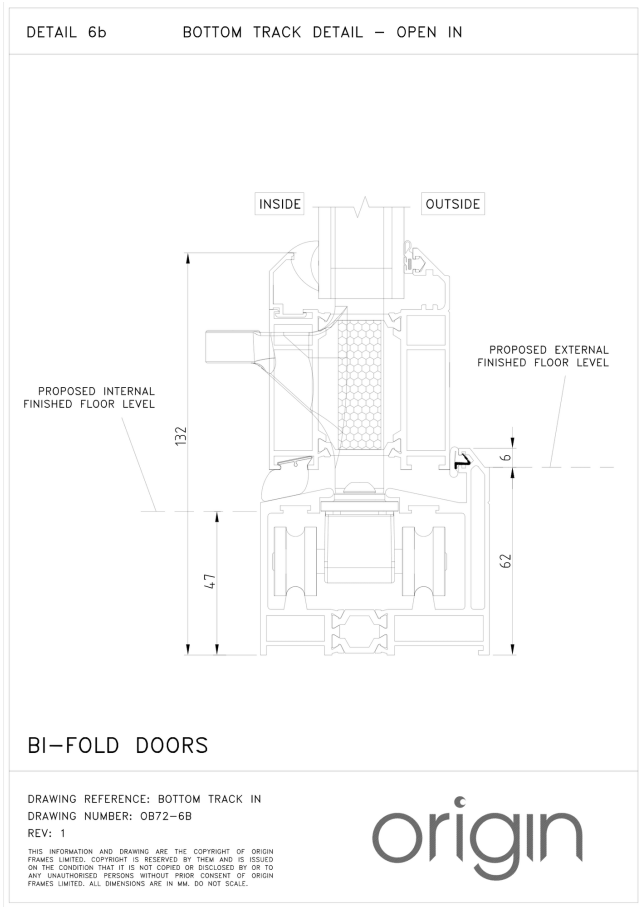
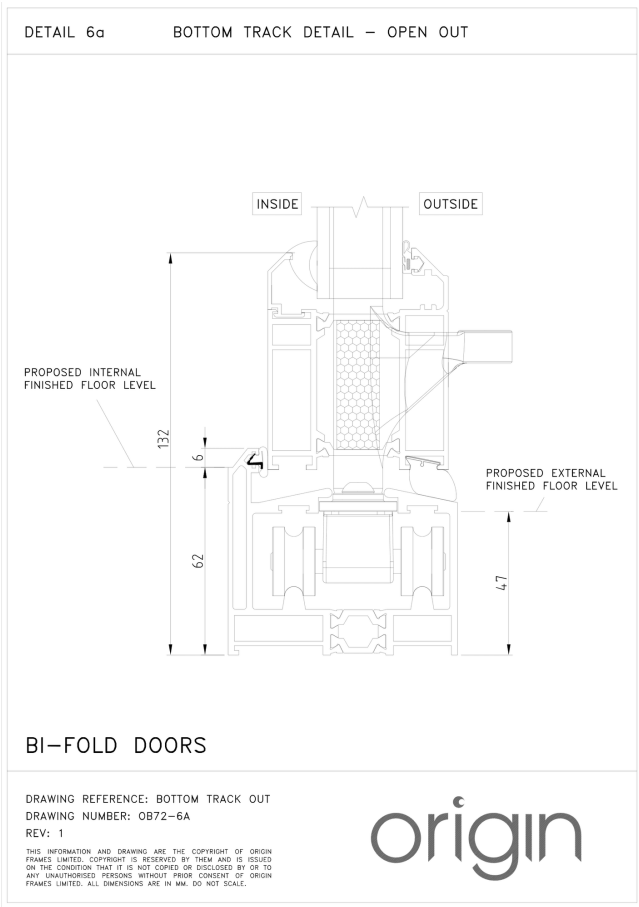
Locking Jamb



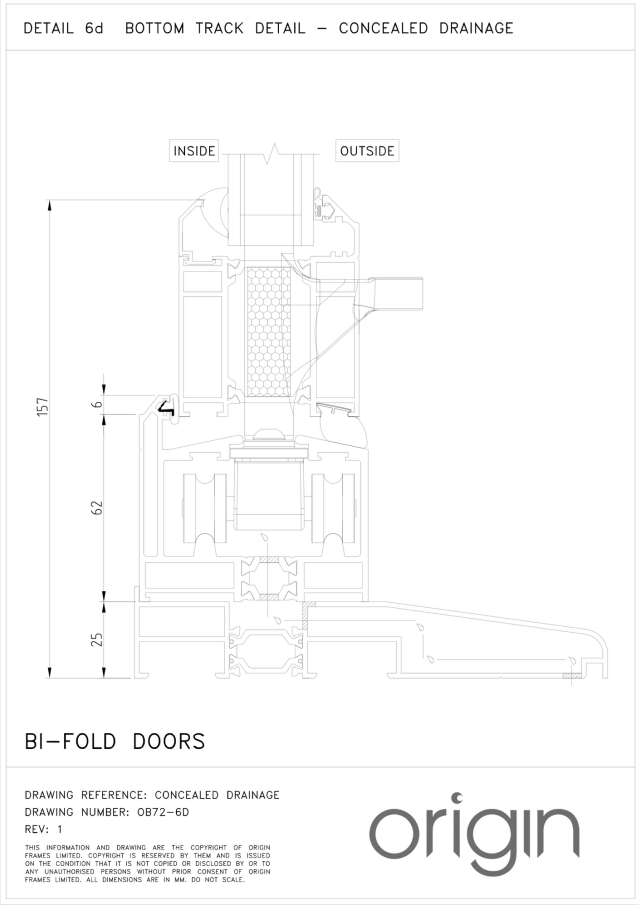
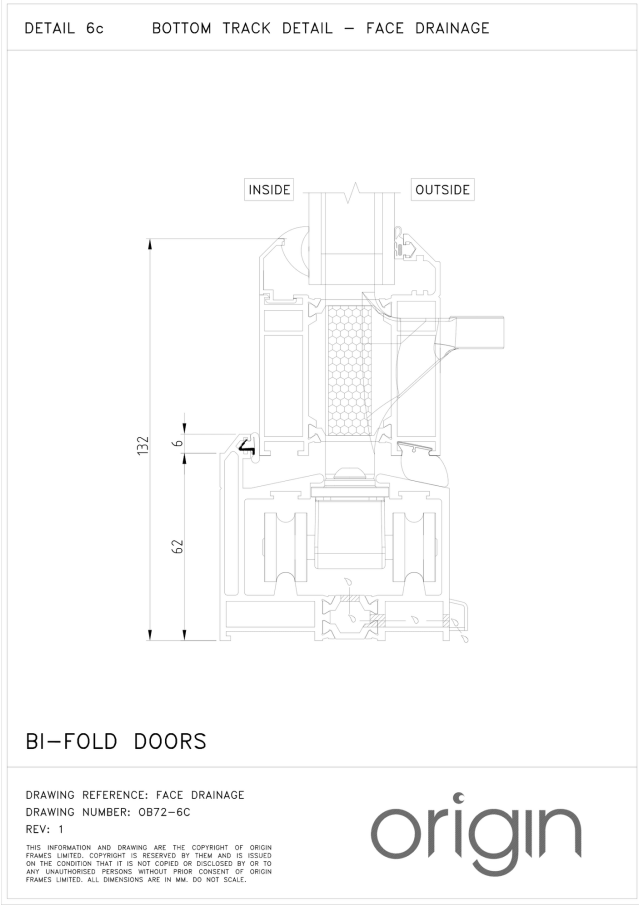
Top Track



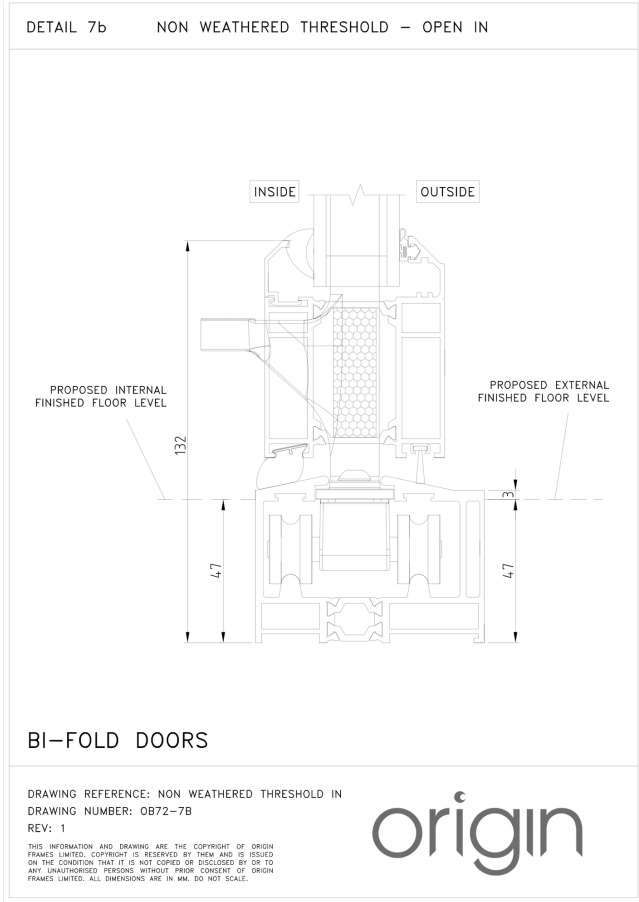
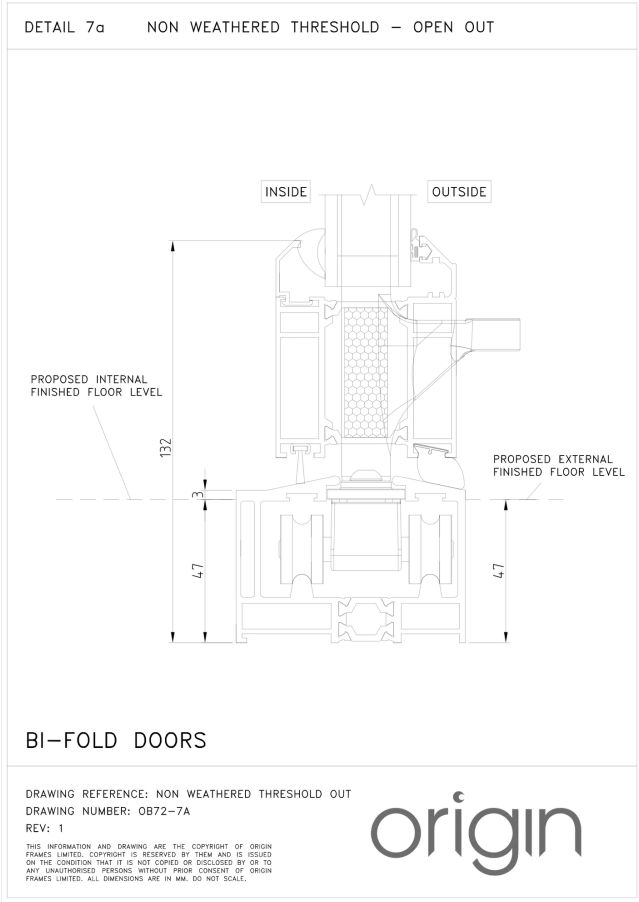
Bottom Track



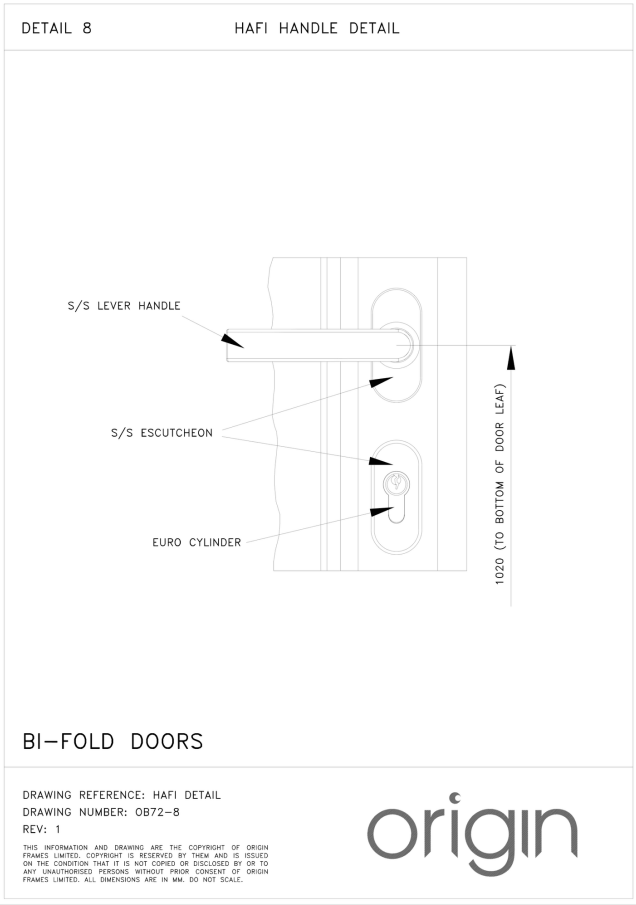
Bottom Track - Drainage



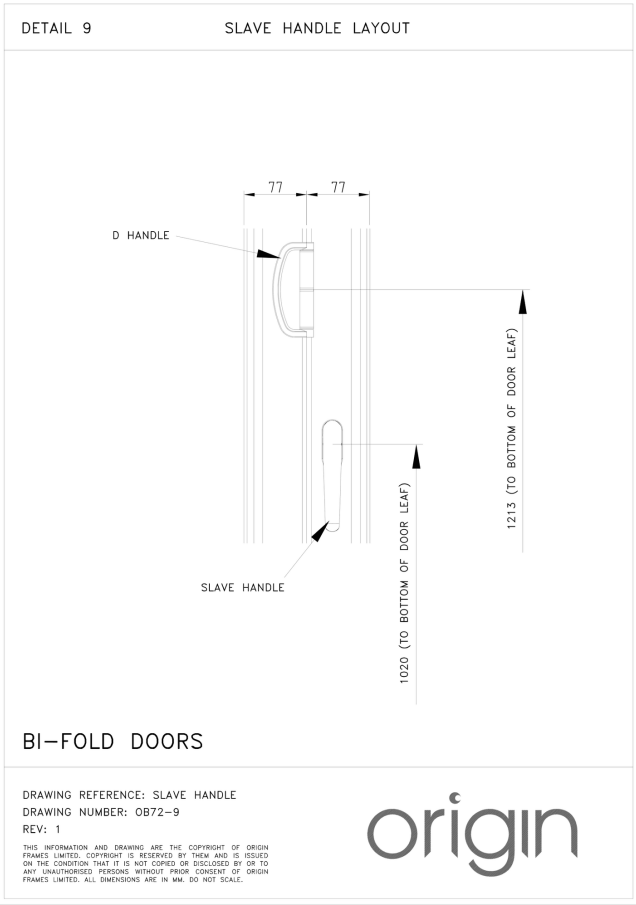
Non-Weathered Threshold



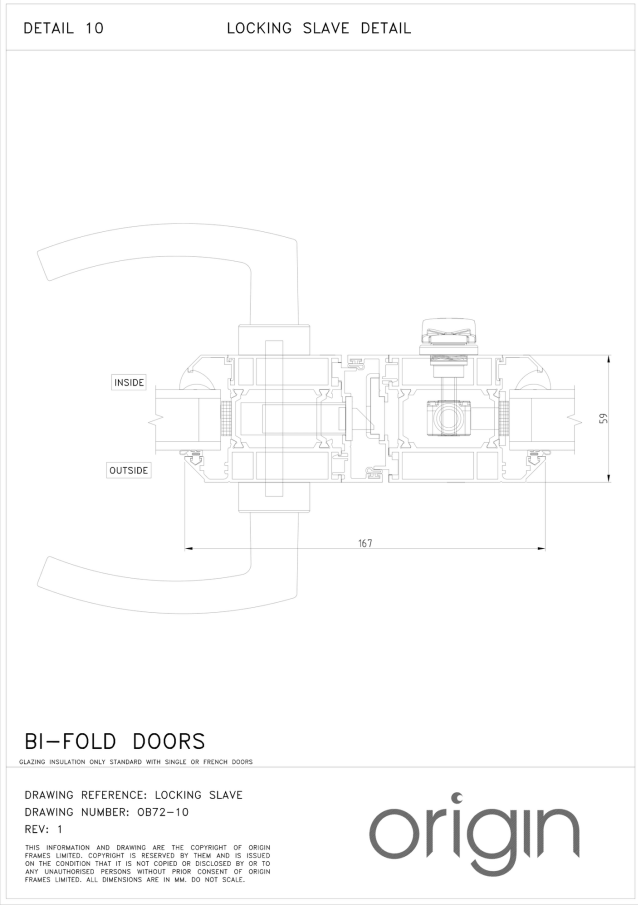
Handle Layout



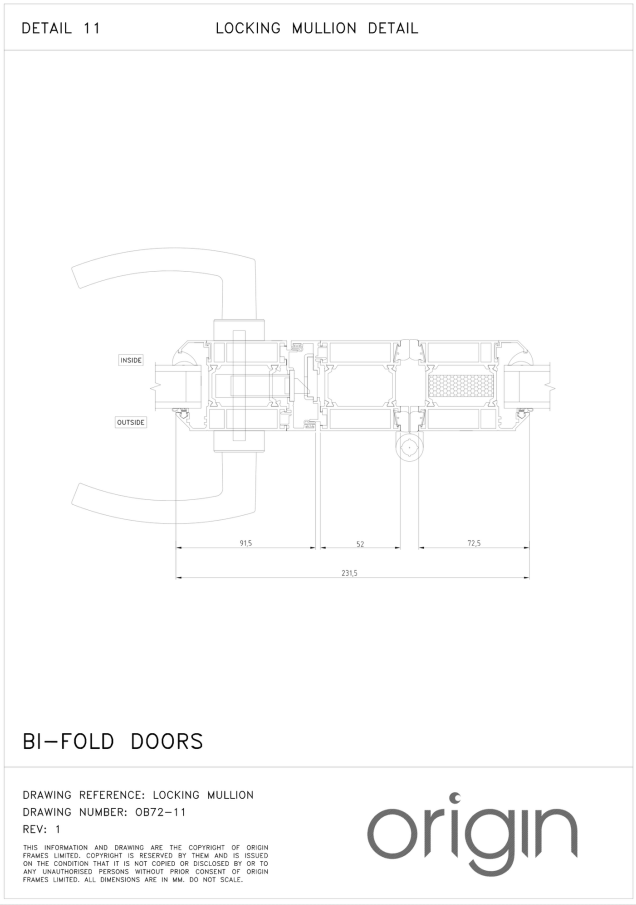
Slave Handle



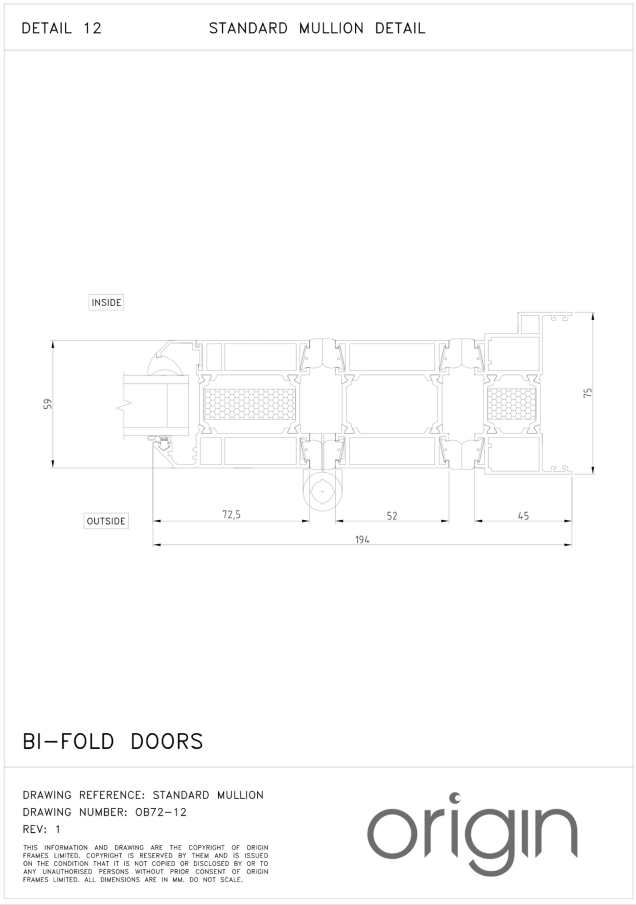
Locking Slave Handle



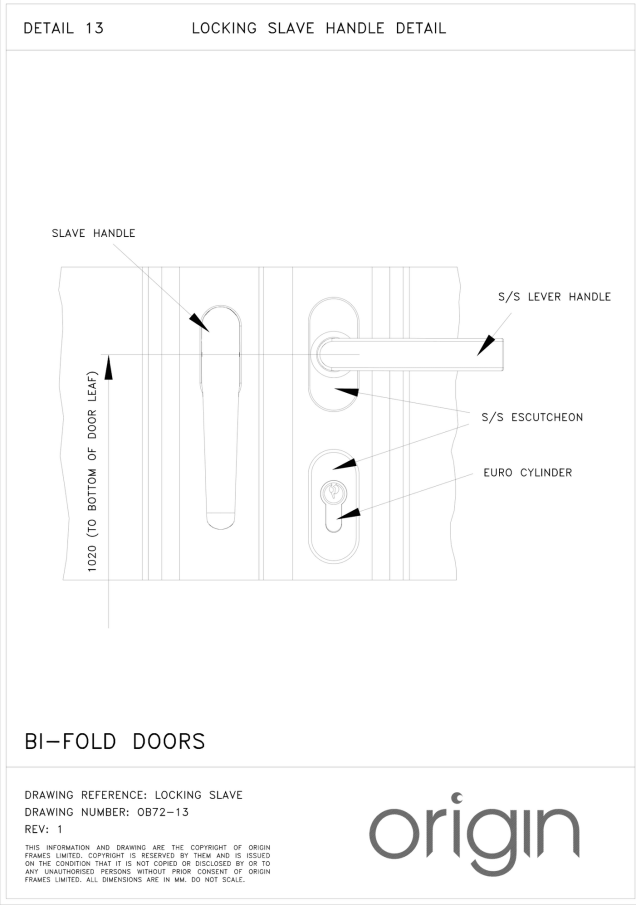
Locking Mullion



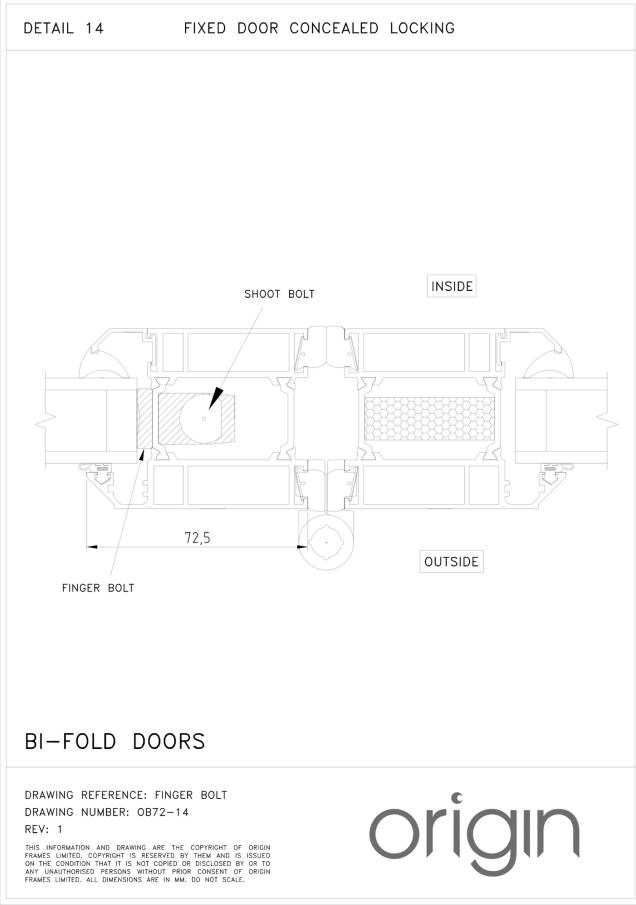
Standard Mullion



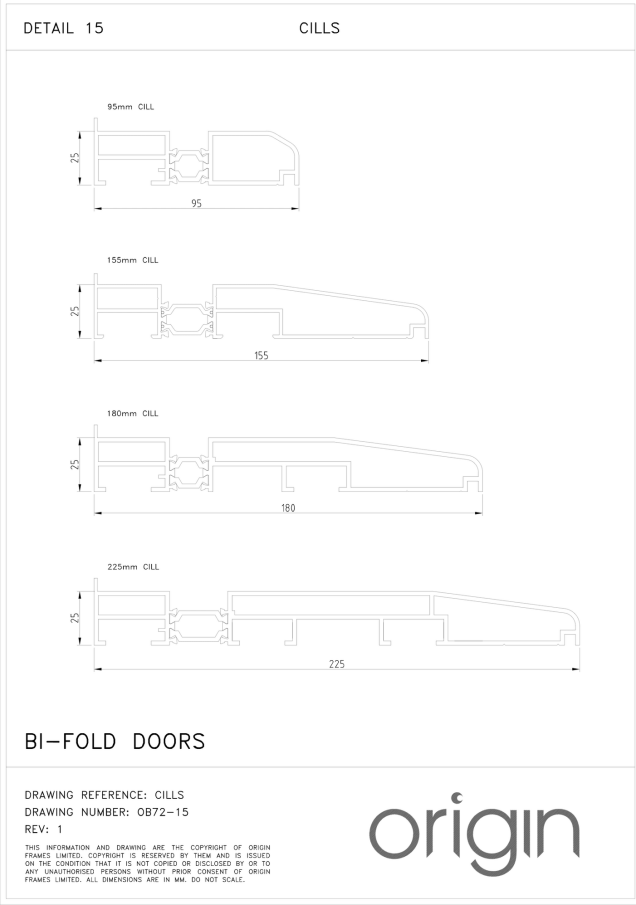
Locking Slave Handle



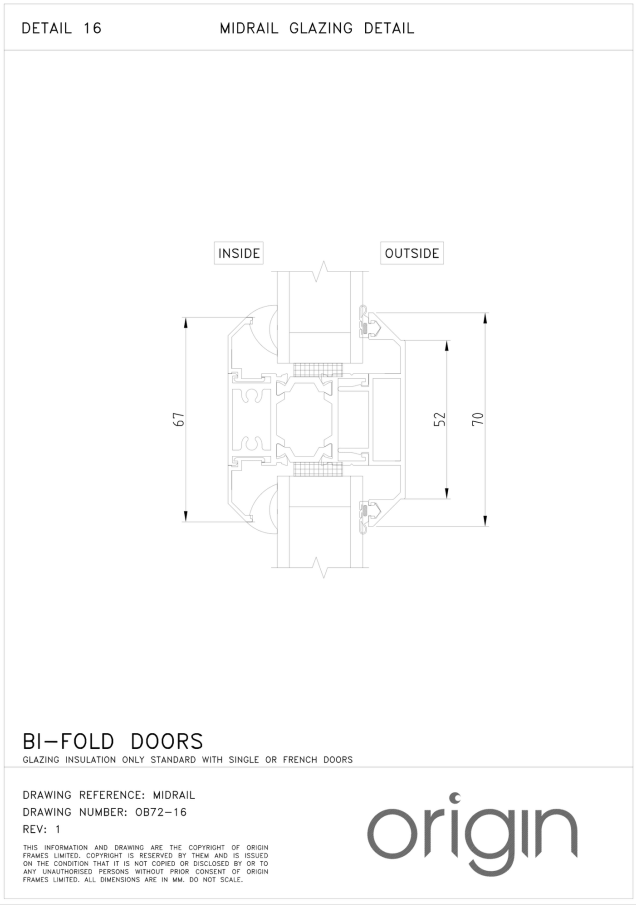
Fixed Door - Concealed Locking



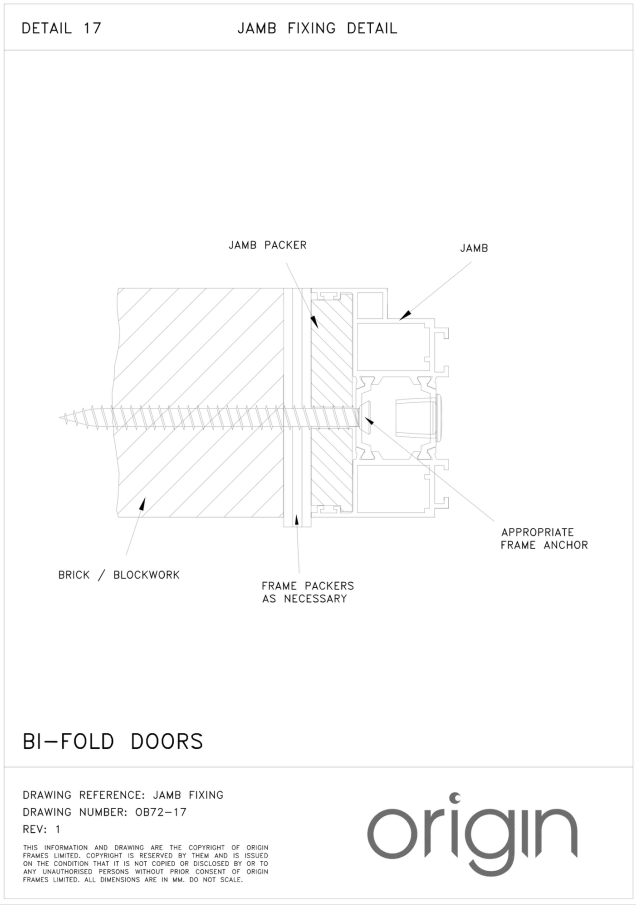
Cills



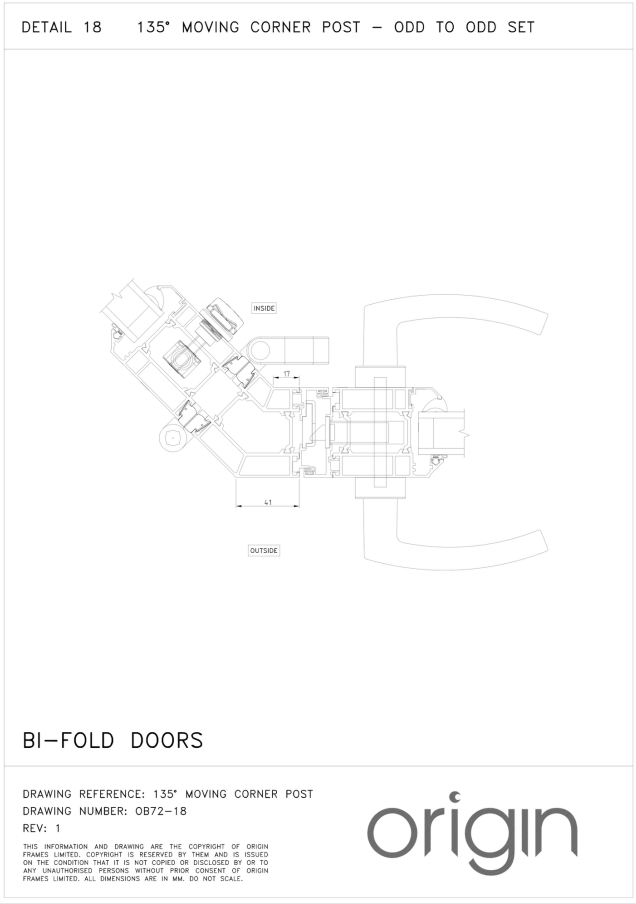
Midrail Glazing



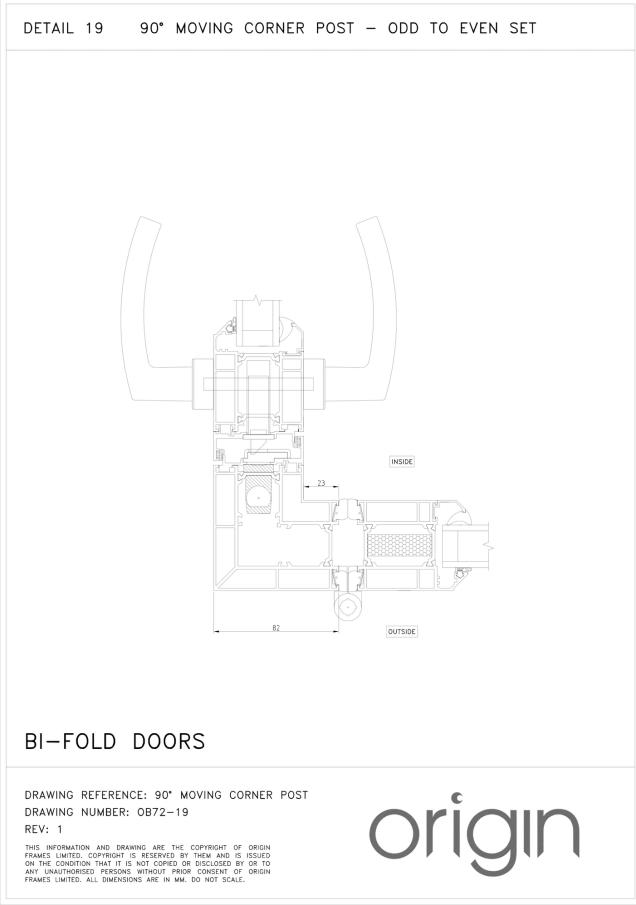
Jamb Fixing



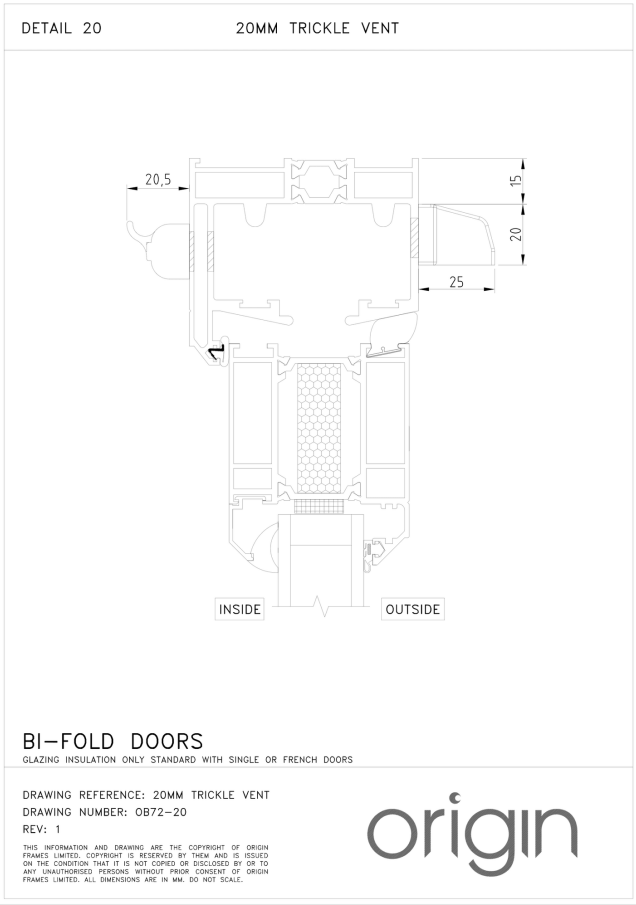
135° Moving Corner Post



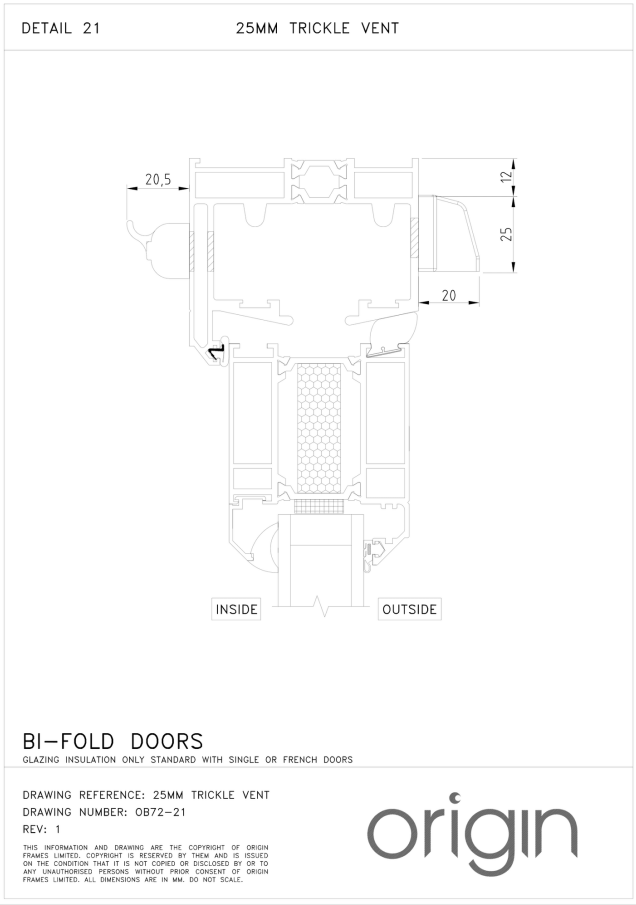
90° Moving Corner Post



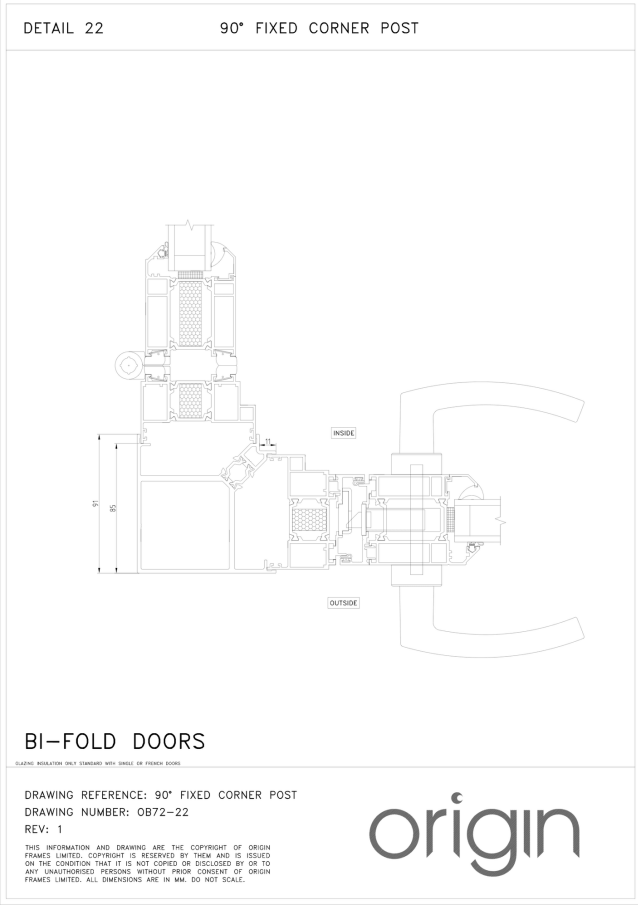
20MM Trickle Vent



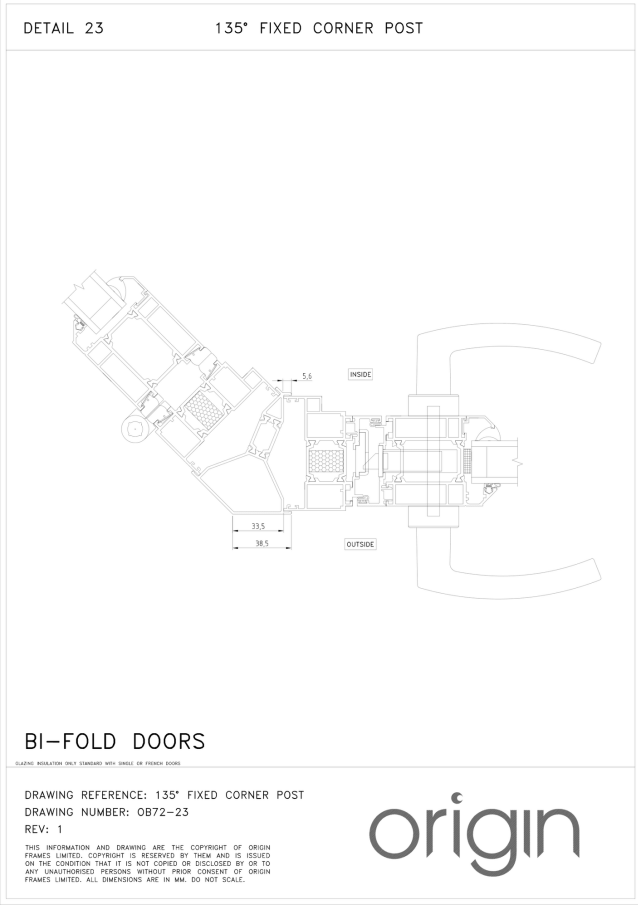
25MM Trickle Vent



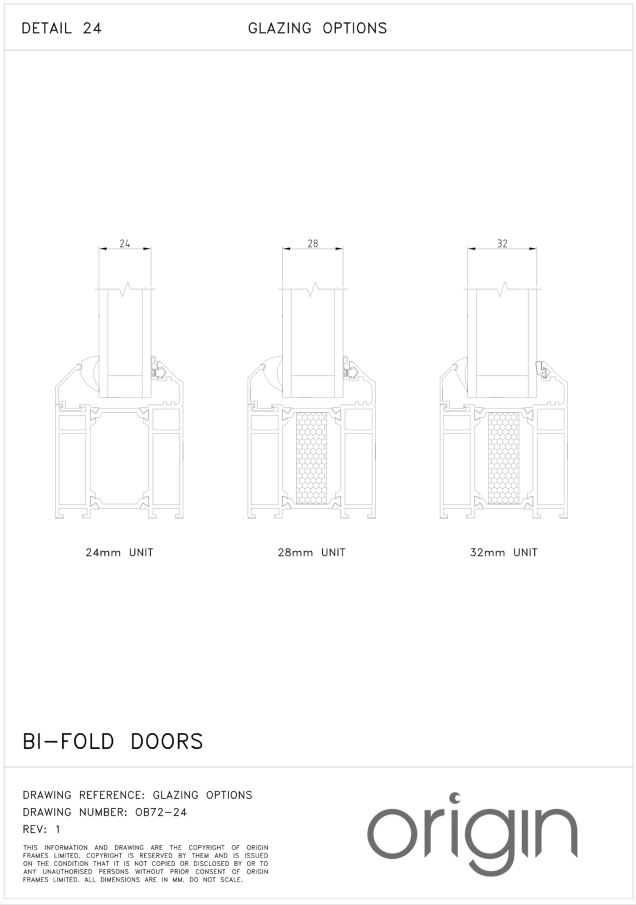
90° Fixed Corner Post



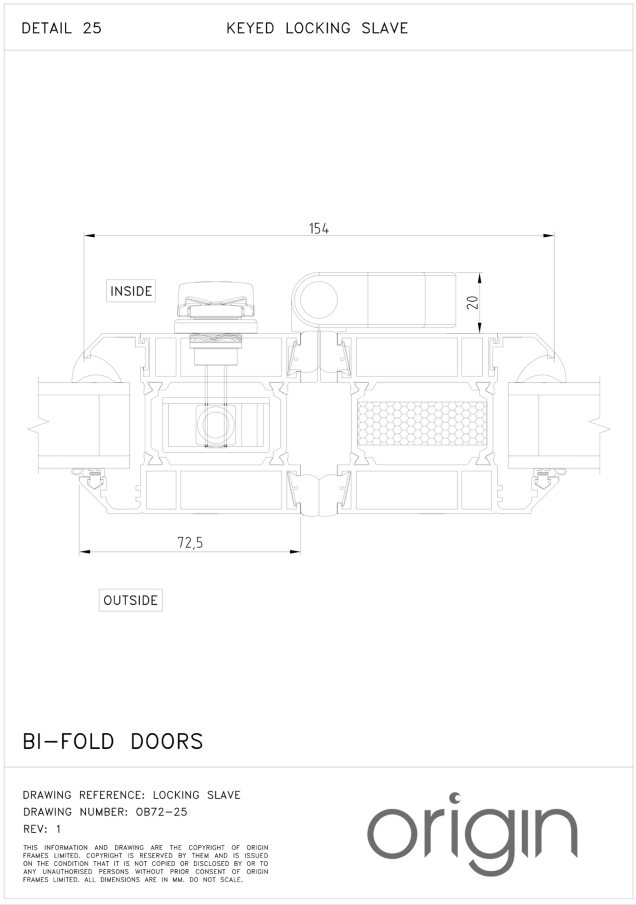
135° Fixed Corner Post



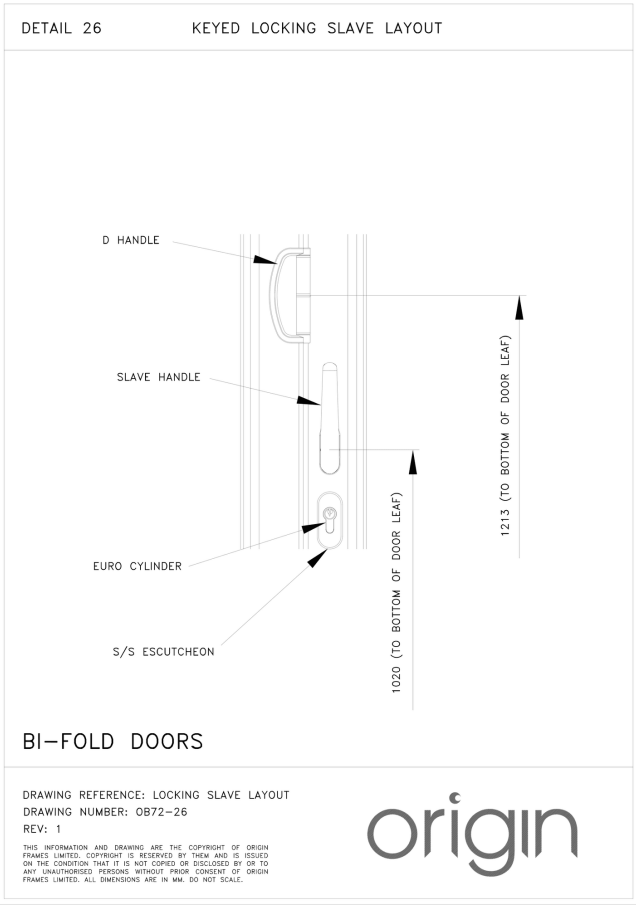
Glazing Options



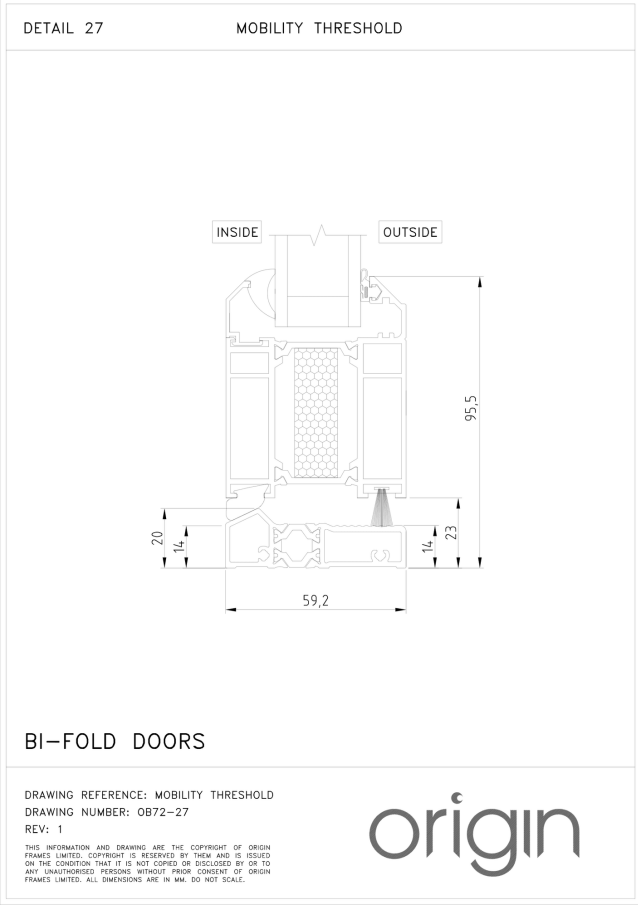
Key Locking Slave



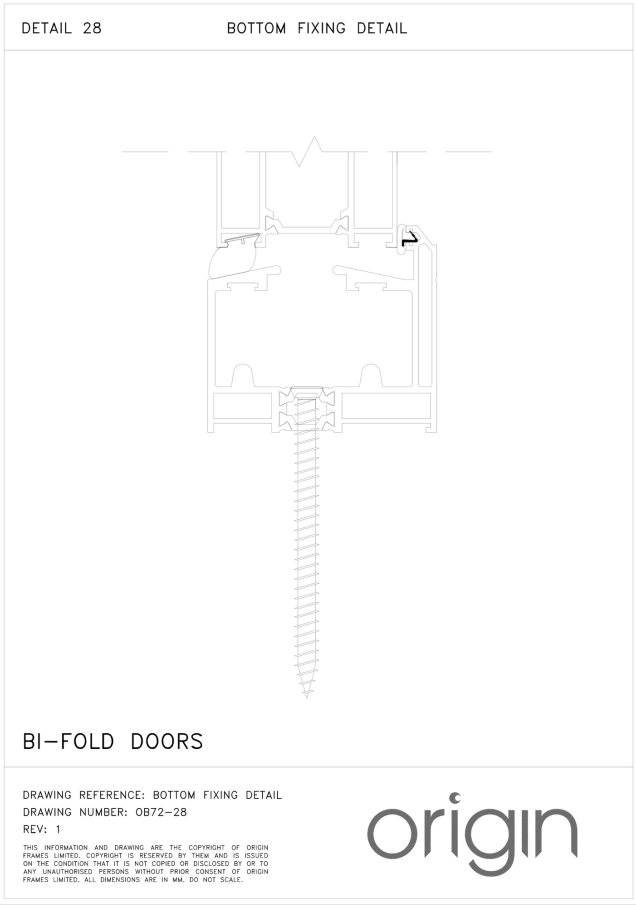
Key Locking Slave Layout



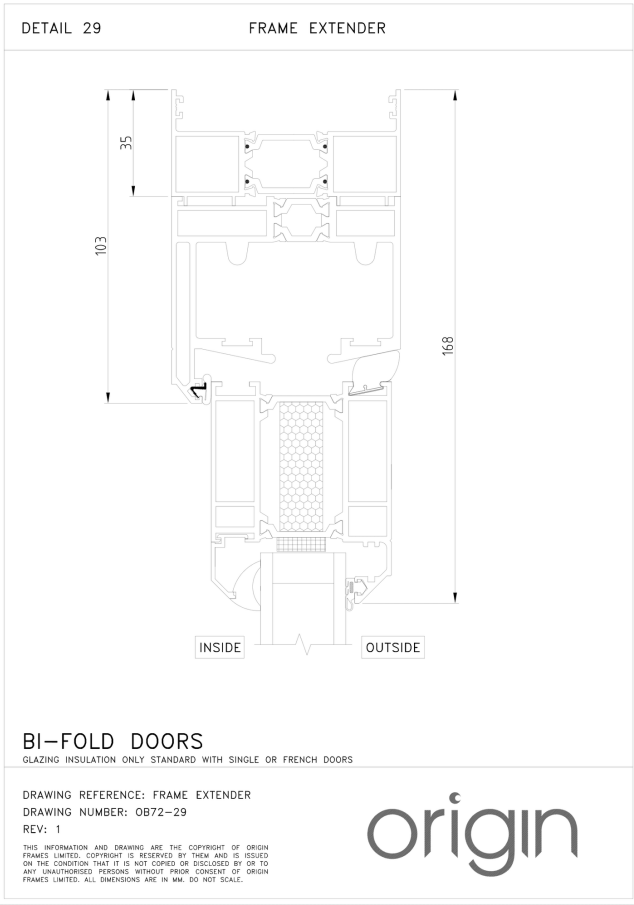
Mobility Threshold



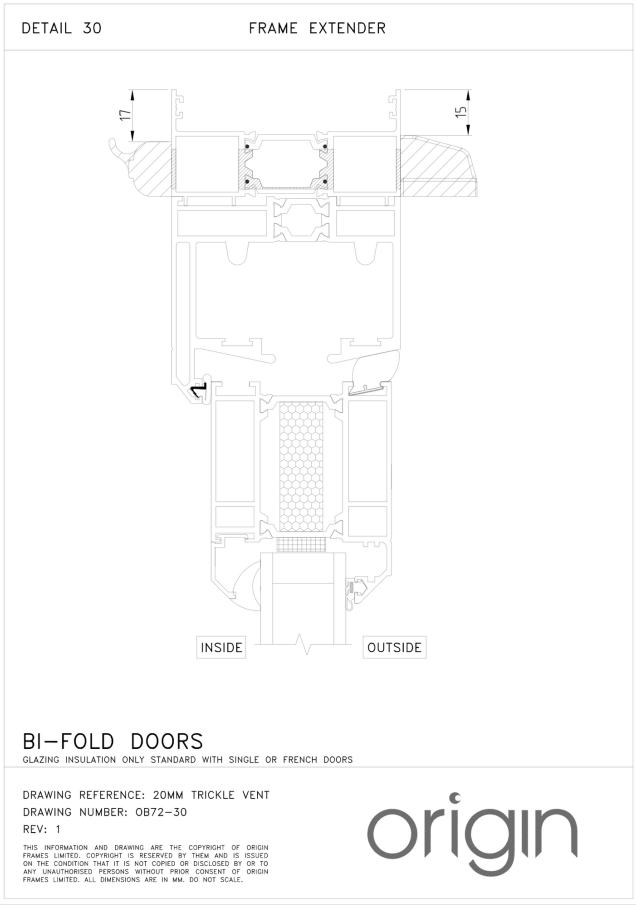
Bottom Fixing



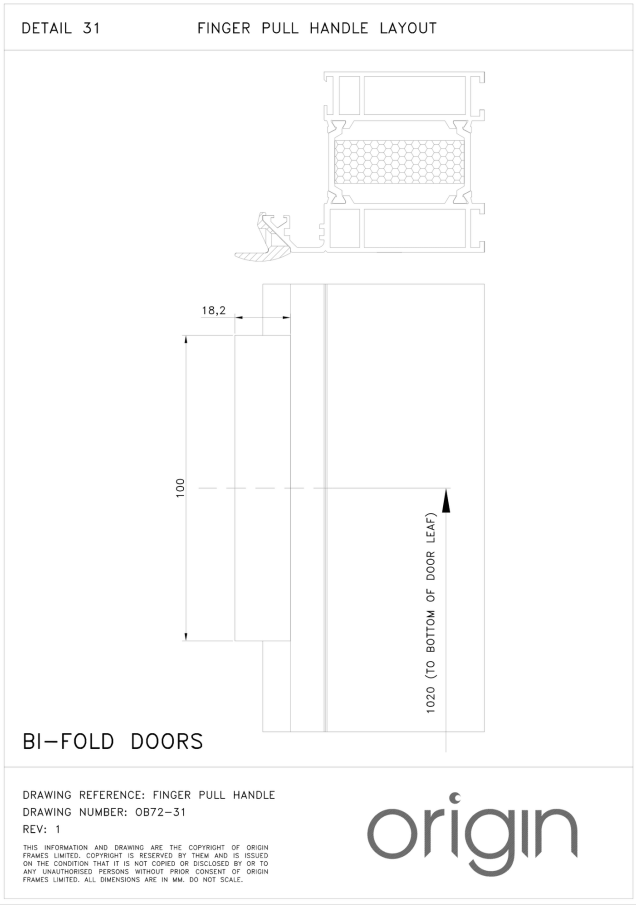
Frame Extender



Frame Extender

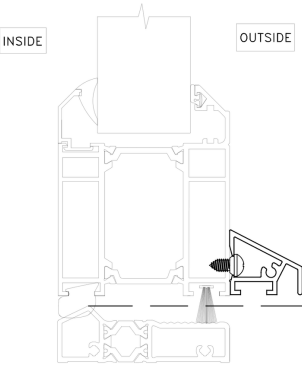


Finger Pull Handle



Weather Bar

DETAIL 32a WEATHER BAR DETAIL – MOBILITY



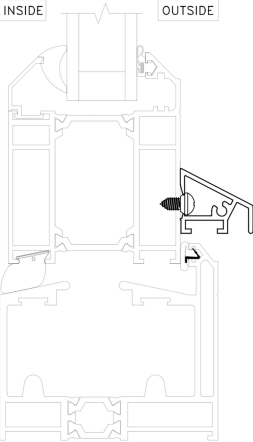
BI-FOLD DOORS

DRAWING REFERENCE: M THRESHOLD W_BAR 0B72
DRAWING NUMBER: 0B72-32A
REV: 1

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DETAIL 32b WEATHER BAR DETAIL



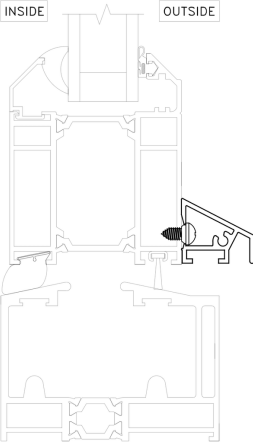
BI-FOLD DOORS

DRAWING REFERENCE: THRESHOLD W_BAR 0B72
DRAWING NUMBER: 0B72-32B
REV: 1

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DETAIL 32c WEATHER BAR DETAIL – NW



BI-FOLD DOORS

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DRAWING NUMBER: 0B72-32C
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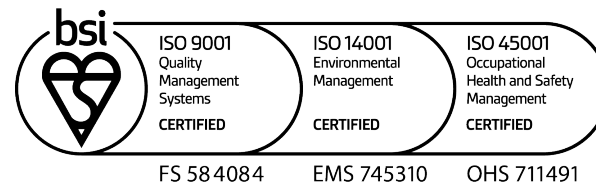
Accreditations

Quality Assured

At Origin, we are dedicated to delivering products of the highest quality, supported by the best levels of service and efficiency. We are well known for our meticulous attention to detail, taking pride in everything we do. This includes not settling for today – we are always learning, innovating, evolving and improving. Put simply, we're on a quest for perfection. It's an ethos that has become the very heart of Origin.

From products to processes, or even our sustainability, our culture encourages continuous improvement. We've put this to the test by going for prestigious accreditations. We are very proud to have achieved these and feel they show our ethical and moral dedication to operate in the best way, not because we are told to, but because it's the right thing to do. Here are some details on what we've achieved so far.

[LEARN MORE](#)



Thank you for reading the
OB72 Spec Guide
2.281.8

Engineering beauty
in *every* detail.