

Series 730 Thermally Broken Bi-fold Door



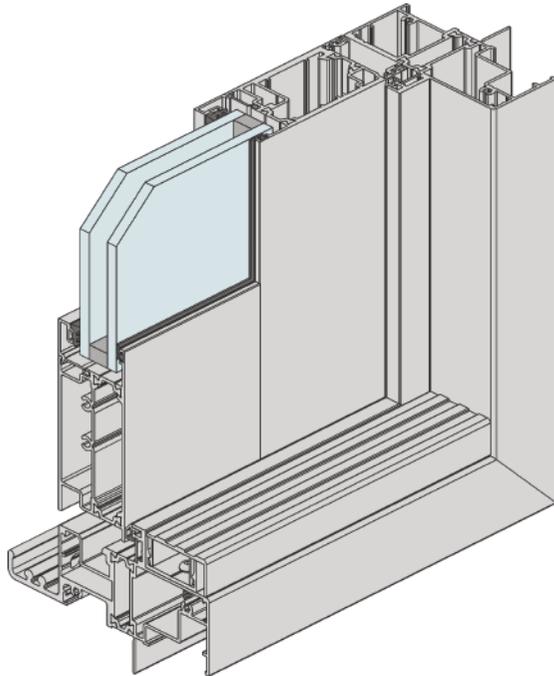
Photo courtesy of DLG Aluminium & Glass



Series 730 Thermally Broken Bi-fold Door

DATE: AUG 20
REPLACES: NOV 09
SCALE: NOT TO SCALE

KEY FEATURES / PERFORMANCE CHARACTERISTICS



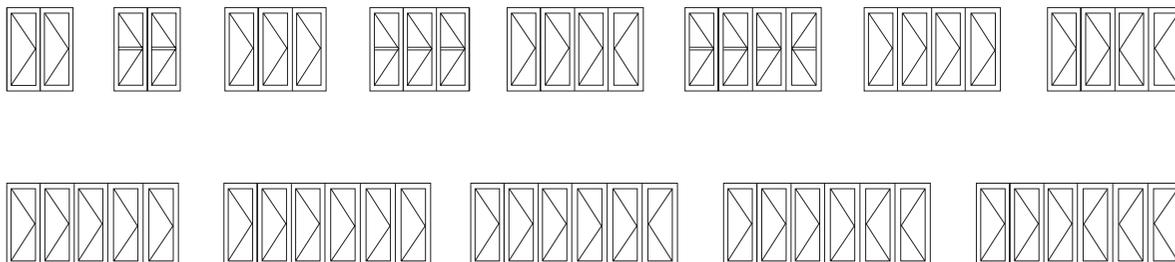
Series 730 ThermalHEART™
Bi-fold door internal view

- Series 730 incorporates ThermalHEART™ technology giving a true wide thermal break between the outside and inside faces. WERS (Window Energy Rating System) data shows that using the same IGU in a ThermalHEART™ Bi-fold door is 32% more efficient than a standard non-thermally broken Bi-fold door.
- A major advantage with ThermalHEART™ in cold climates is the reduction in internal condensation. This saves potential damage to timber reveals and paint finishes. ThermalHEART™ is also suitable for hot climates.
- We offer ThermalHEART™ in a range of stocked colours including dual colour ClearMIST™ contact your local Vantage fabricator for details.
- Running bi-fold doors on bottom rollers reduces the problems caused by lintel sag and allows us to offer optional highlights.
- This bi-fold door has been tested for compliance with the relevant Australian Standards and achieved a high water resistance of 380Pa, this makes the product suitable for most residential applications.
- Low air infiltration, makes the product suitable for air conditioned buildings.
- The extra strong door stiles allow over size door panels to be fabricated, refer Pascal rating tables later in these notes.
- Sharp square external glazing beads are standard.
- 100mm frame and transom have a soft 2mm internal radius.

Maximum Panel Height*	2600mm
Maximum Panel Width*	900mm
Maximum Glass Thickness	≤ 32mm

* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, e-mail techsupport@awsaustralia.com.au

TYPICAL CONFIGURATIONS



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SOUND REDUCTION

A number of glass combinations have been tested in a similar door system. Panel stiles were fitted with co-extruded Santoprene fin seals.

Glass Description		
6.38mm Laminated glass	31dB(A)	RW32
19mm Insulating glass unit	32dB(A)	RW33



WERS RATINGS

Double Glazed

Glass Description	COOLING	HEATING	Uw	SHGCw	Tvw	Inf
4AZ/10Gap/4EA	67%	39%	2.8	0.26	0.38	0.64
4Clr/10Ar/4EA	55%	50%	2.6	0.44	0.45	0.64
4Clr/10Gap/4Clr	50%	44%	3.3	0.47	0.49	0.64
4Clr/10Gap/4EA	55%	48%	2.8	0.44	0.45	0.64
5Clr/8Gap/5Clr	51%	43%	3.3	0.46	0.48	0.64
5EG/8Ar/5EA	67%	39%	2.7	0.26	0.37	0.64
6Clr/12Gap/6Clr	52%	44%	3.2	0.44	0.47	0.64
6EG/12Gap/6Clr	65%	33%	3.2	0.26	0.35	0.64
6Clr/12Gap/6EA	56%	48%	2.8	0.42	0.44	0.64
6EG/12Gap/6EA	69%	36%	2.8	0.23	0.33	0.64

HOW TO SPECIFY

SYSTEM NAME

Vantage Series 730 Thermal HEART™
Bi-fold door

FINISH

Powder Coat
Anodised

COLOUR

Select from the ThermalHEART range of approved powder coat or anodising colours. Dual colour options available.

GLASS

Specify thickness ≤ 32mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)

HARDWARE

Refer to hardware selection guide for compatible options



2D & 3D CAD FILES AVAILABLE

GO TO: www.specifyaws.com.au
CAD file: DWG and PDF 729.BFLD



MORE INFORMATION

For the latest updates regarding this product visit our website
www.specifyaws.com.au



Specification Assistance

Need help specifying this product? email techsupport@awsaustralia.com.au and our qualified technical advisors will assist you with product selection and specification for your project.



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SPECIFIERS CHECKLIST

Not all Bi-fold doors are the same. If you want your doors to perform, keep the elements on the outside where they belong and operate smoothly for years to come there are some things you should check/compare when choosing your supplier - compare us with the others.

FEATURE	Series 730	Opposition
<p>Is the frame and door panel thermally broken? Series 730 is 32% more thermally efficient than non-thermally broken bi-fold with the same insulating glass unit.</p>	YES	
<p>Has Series 730 been WERS rated?</p>	YES	
<p>Heavy duty perimeter frame The multi hollow perimeter frame is designed to support the heavy double glazed door panels.</p>	YES	
<p>Series 730 can be supplied in dual colour?</p>	YES	
<p>Does the bi-fold door run on bottom rollers? Series 730 bottom rollers will run smoother longer. More clearance for lintel sag. Less chance of problems.</p>	YES	
<p>Will the Bi-fold door keep the water out - has it been tested? The Vantage Series 730 Bi-fold door system has been successfully tested to keep water out. Open out bi-fold door will resist up to 380Pa of water. If sliding doors have to comply so should hinged and Bi-fold doors in our opinion.</p>	YES	
<p>Are the door jambs strong enough to support the door? The Vantage Series 730 doors are hinged off a heavy duty double tubular jamb with thickened webs where hinges are attached. If the jamb is not strong enough, nothing you can do in the future will make the door perform.</p>	YES	
<p>Can the frame have highlights (overlights)? As the weight is carried at the sill Series 730 has a range of transom details.</p>	YES	
<p>Can the door panels and fixed sidelights/highlights be double glazed? The heavy duty door panels are capable of carrying up to 32mm thick insulating glass.</p>	YES	
<p>Can Series 730 bi-fold doors be fitted with flydoors? We can fit roller screen/s behind folding door panels.</p>	YES	
<p>High quality hardware Heavy duty custom hinges designed to suit the door and frame without having to fit shims etc. Centre hinge between folding door panels has built-in handle to allow easy panel closing. Quad bogey wheel carriage designed to carry the load. 316 Stainless steel roller cowling available for high risk areas near the sea. Folding panels locked in the closed position with heavy duty custom flush bolts (finger, lever or key operated) Custom injection moulded lock keepers remove the need for ugly shims and cutouts in the stiles and / or frame. Specially designed backing plate at the four corner joints of the door. These take the "sloppiness" out of corner joints and make sure that the door stays rigid and square. Compare our door with others available and you will see what we mean about strength and rigidity. Co-extruded Santoprene door stop seal. Custom designed ICON™ and MIRO™ bi-fold activators and lever locksets available. ICON™ Hardware is manufactured from 316 grade Stainless Steel - ideal for coastal applications.</p>	YES	

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DESIGN FEATURES

Series 730 incorporates ThermalHEART™ technology giving a true wide thermal break between the outside and inside faces. WERS (Window Energy Rating System) data shows that using the same IGU in a ThermalHEART™ Bi-fold is 32% more efficient than a standard non-thermally broken Bi-fold door.

A major advantage with ThermalHEART™ in cold climates is the reduction in internal condensation. This saves potential damage to timber reveals and floor finishes. ThermalHEART™ is also suitable for hot climates.

We offer ThermalHEART™ in a range of stocked colours including dual colour ClearMIST™ contact your local Vantage fabricator for details.

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Sharp square external glazing beads are standard.

100mm frame and transom have a soft 2mm internal radius.

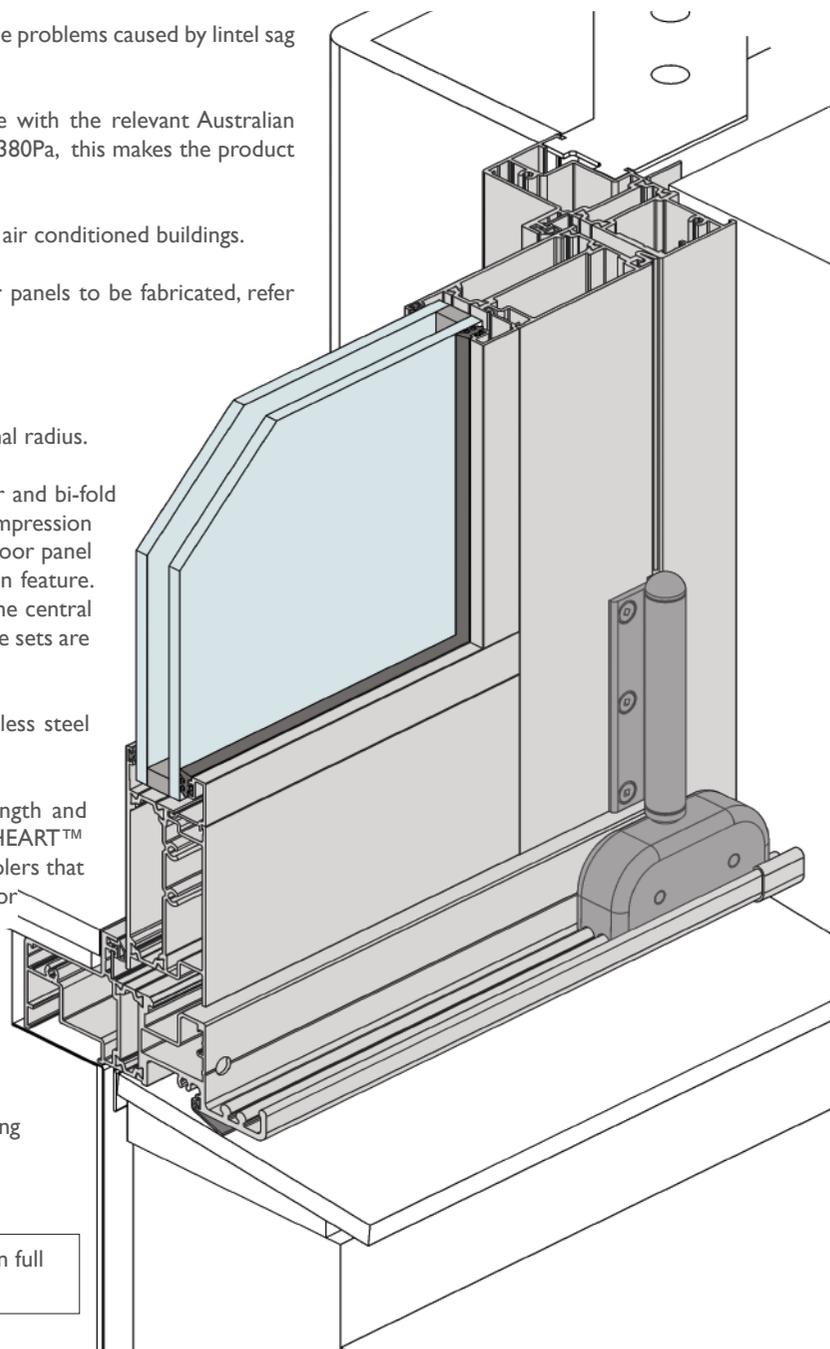
Doors can be fitted with a variety of custom lever and bi-fold activator sets (ICON™ or MIRO™) with Lever Compression Lock (LCL) motor as standard. After closing the door panel you can lift the handle to activate the compression feature. This throws bolts into head and sill and deploys the central locking bolt. The individual features of both furniture sets are shown later in this section.

ICON™ lever sets are only available in 316 Stainless steel finish.

The door frame is compatible (appearance, strength and performance) with the high performance ThermalHEART™ awning window. We have light and heavy 180° couplers that will joint windows to doors without unsightly rivets or screws while maintaining the thermal break.

Panels are hung on heavy duty custom hinges, refer details later in this section.

Panels and sidelights will accept a variety of glass thicknesses from 4mm single panes to 32mm insulating glass units.

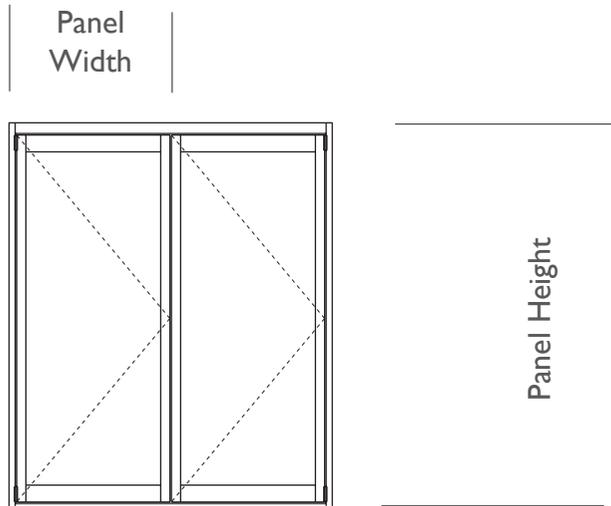


All of the important features are shown in full colour at: www.specifyaws.com.au

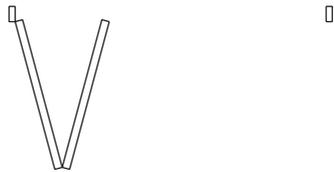
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LIMITATIONS



Typical two panel BFD2 illustrated.



Maximum Bi-fold Door Panel Sizes

Maximum panel weight	60 kg per panel (all types except equal to equal e.g BFD2+2 and BFD4+2). 45 kg per panel on type BFD2+2 and BFD4+2 (limited by type 'M' and 'N' rollers).
Maximum panel width	900mm
Maximum frame width	5450mm
Maximum panel height	2600mm (or 2700mm overall frame). Will vary depending on weight, design wind load and allowable metal deflection.
Hinge quantity	3. hinges - height less than or equal to 2200mm. 4. hinges - height greater than to 2200mm.

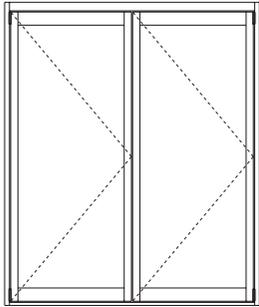


Most of the features on this product can be seen in full colour on our web site:
www.specifyaws.com.au

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TYPICAL CONFIGURATIONS



type. **BFD2**
Both doors fold to the left.

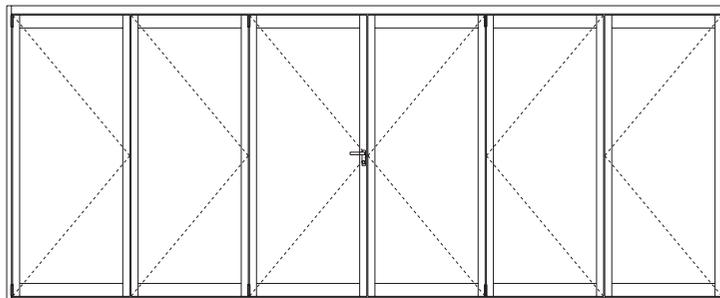
S = Serviceability limit state (deflection = L/150).
U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.
A typical assembly has been tested as per the requirements of AS2047,
Ultimate strength rating has been limited to 4500 Pa.

2200 Serviceability ratings were restricted by the maximum water resistance (300Pa) achieved on this product.

Door Dimensions		Ratings		
Frame Height mm	Panel Width mm	Serviceability l/150	Serviceability l/180	Ultimate
2100	800	2200 Pa	1915 Pa	4500 Pa
2100	900	2079 Pa	1732 Pa	4500 Pa
2200	800	1973 Pa	1644 Pa	4393 Pa
2200	900	1782 Pa	1485 Pa	3958 Pa
2300	800	1706 Pa	1422 Pa	3985 Pa
2300	900	1539 Pa	1283 Pa	3586 Pa
2400	800	1487 Pa	1239 Pa	3631 Pa
2400	900	1339 Pa	1116 Pa	3264 Pa
2500	800	1303 Pa	1086 Pa	3324 Pa
2500	900	1172 Pa	977 Pa	2985 Pa
2600	800	1149 Pa	957 Pa	3054 Pa
2600	900	1033 Pa	860 Pa	2740 Pa

Wind Ratings (Pa) Meeting stiles.



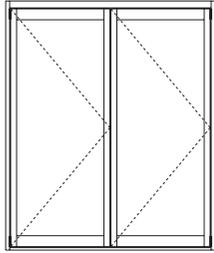
type. **BFD3 + 3**

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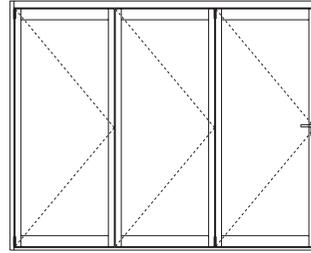
Width > 1123mm <= 1894mm



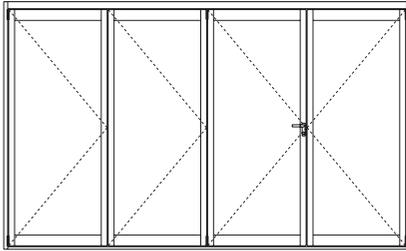
Height
<= 2700mm



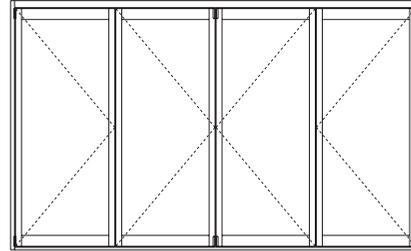
Width > 1615mm <= 2814mm



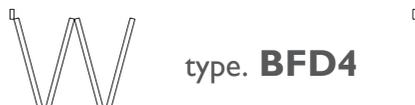
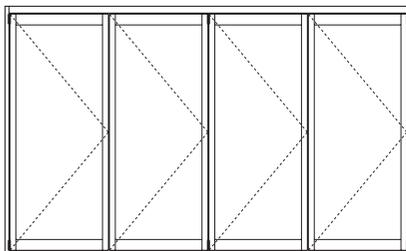
Width > 2121mm <= 3720mm



Width > 2151mm <= 3692mm

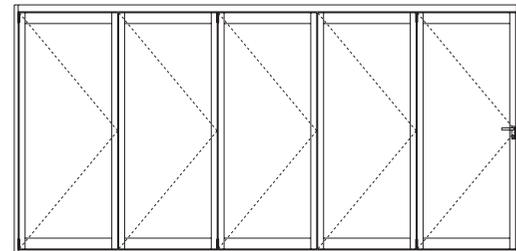


Width > 2139mm <= 3677mm



Internal operation only

Width > 2631mm <= 4632mm



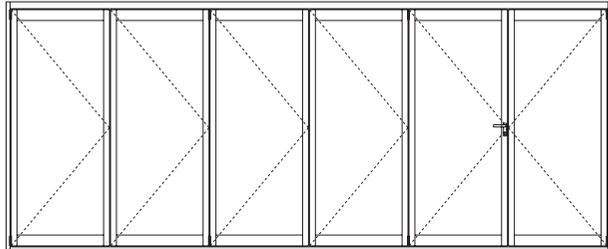
Opening Direction

On Bi-fold doors that open to one side only it's critical that the opening direction is clearly specified on the drawing.

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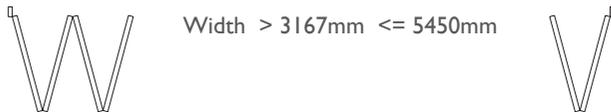
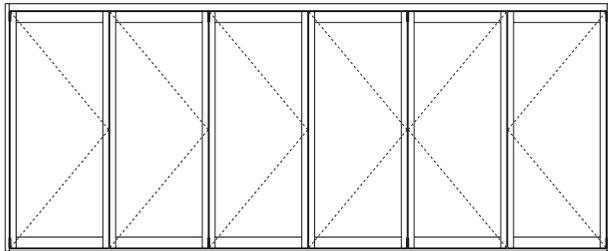
TYPICAL CONFIGURATIONS



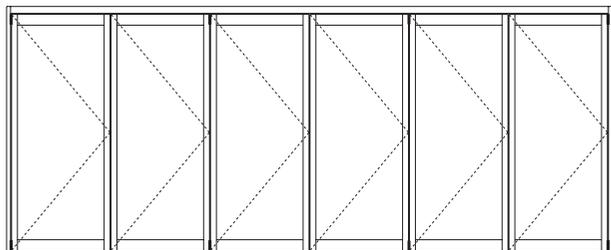
More Series 730 Bi-fold doors.

type. **BFD1+5**
BFD5+1 illustrated

BFD1+5 Indicates that there are a total of six panels, one hinged on the left side and the other five folding to the right. Always viewed from the outside.



type. **BFD2+4**
BFD4+2 illustrated



type. **BFD6**

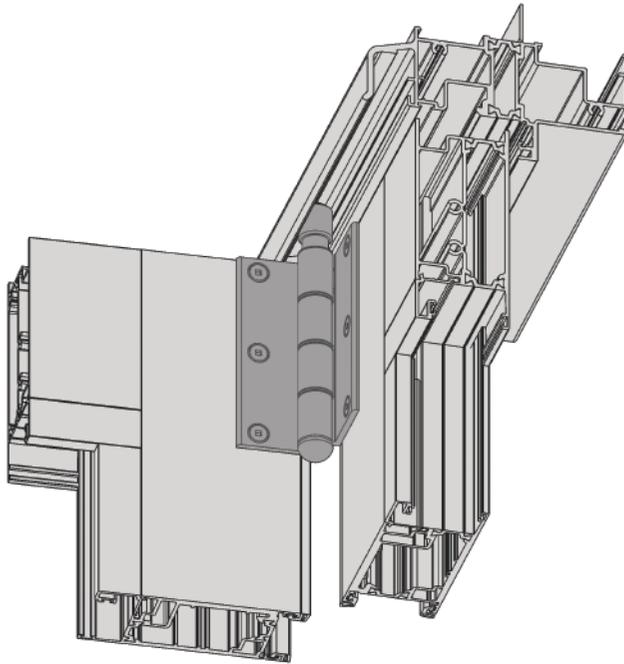
Chair rails

All hinged and Bi-folding doors can be fitted with 76mm chair rail. Likewise the adjoining fixed sidelights can have chair rails to match.

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HARDWARE MAKES THE DIFFERENCE



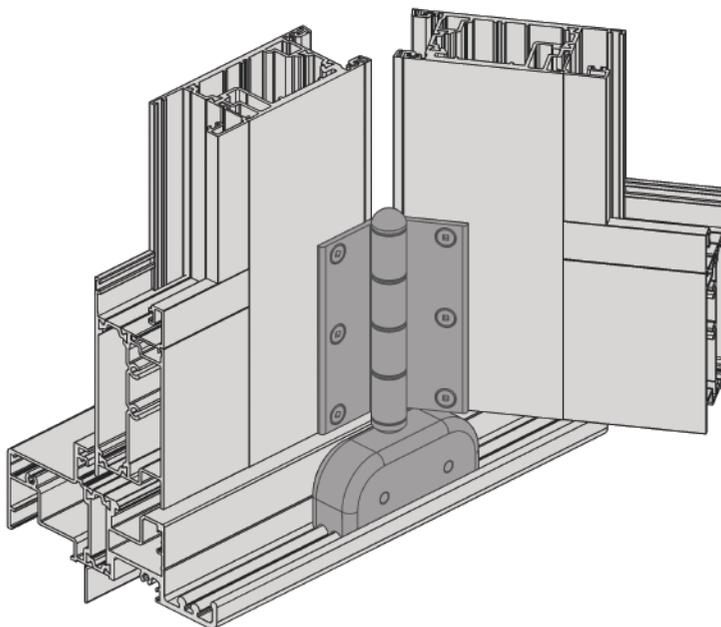
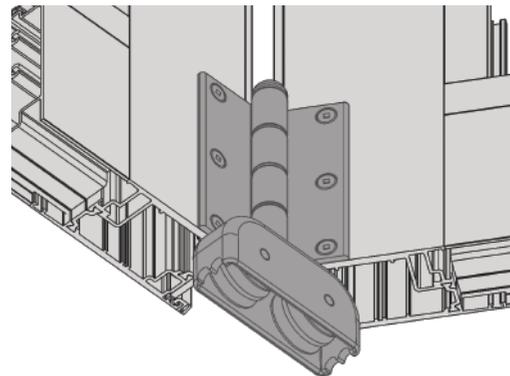
Overhead roller guide

Finishes available:

- Black
- Clear anodised
- Pearl white
- AWS Silver
- Special paint

This head guide is retained in the guide channel in the head / transom.

Guide hinge leaves secured to door stile with stainless steel screws.



Quad bogey sill roller

finishes available:

- Black.
- Clear anodised with 316 stainless steel roller cowling.
- Pearl white.
- AWS Silver.
- Special paint with coloured cowling.
- Special paint with 316 stainless steel roller cowling.

The heavy duty sill rollers are designed to support heavy door panels (up to 60Kg). As the bi-fold doors can be double glazed the panels will get heavy.

Fitting the load carrying rollers on the bottom allows us to make the door panels bigger (2600 x 900mm maximum door panel size) depending on the design wind load.

The rollers are running on double sill track. The cover cowling sweeps the sill clean as doors are opened and closed.

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HARDWARE MAKES THE DIFFERENCE

Jamb Hinge

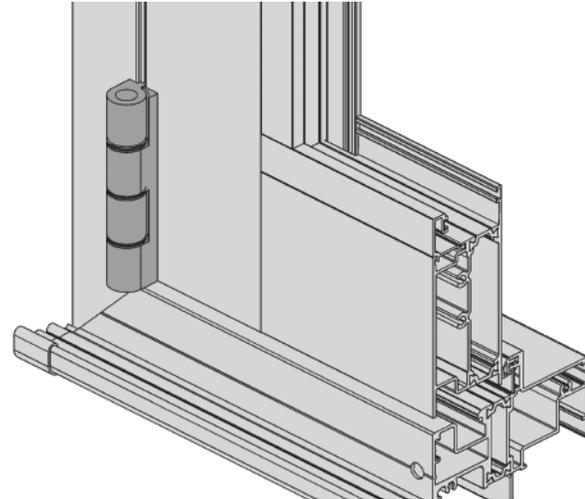
Designed to allow door panels to open 90°.

Hinge frame leaf fixed through reinforced portions of frame with 10# countersunk stainless steel self tapping screws.

The hinge-leaves nest into the frame and stile removing the need for unsightly shims, maximise strength and to ensure that the gap between frame and stile are maintained.

finishes available:

- Black
- Clear anodised
- Pearl white
- AVS Silver
- Special paint

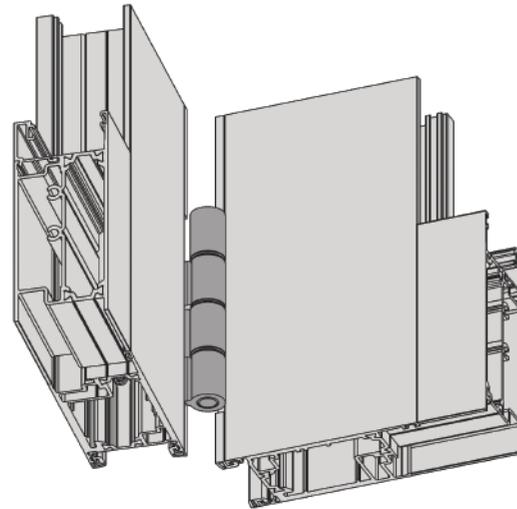


Internal Hinge

The hinge-leaves nest into the stiles removing the need for unsightly shims and to ensure that the gap between frame and stile is maintained.

finishes available:

- Black
- Clear anodised
- Pearl white
- AVS Silver
- Surfmist
- Special paint



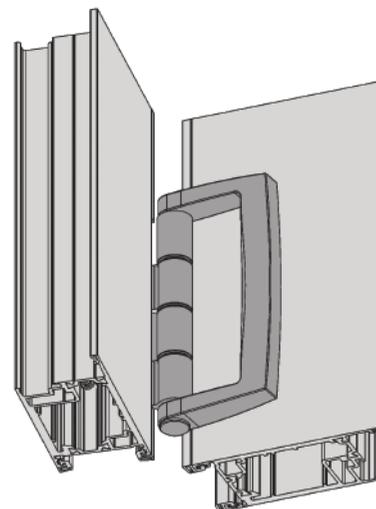
Handle Hinge

This hinge with inbuilt pull handle is located centrally between projecting, folding door stiles to enable these stiles to be pulled back to the frame (closed position).

The pull handle folds back flush with the panels when not in use.

finishes available:

- Black
- Clear anodised
- Pearl white
- AVS Silver
- Surfmist
- Special paint



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HARDWARE MAKES THE DIFFERENCE

Standard **ICON™** Lever Compression Lock

finishes available:

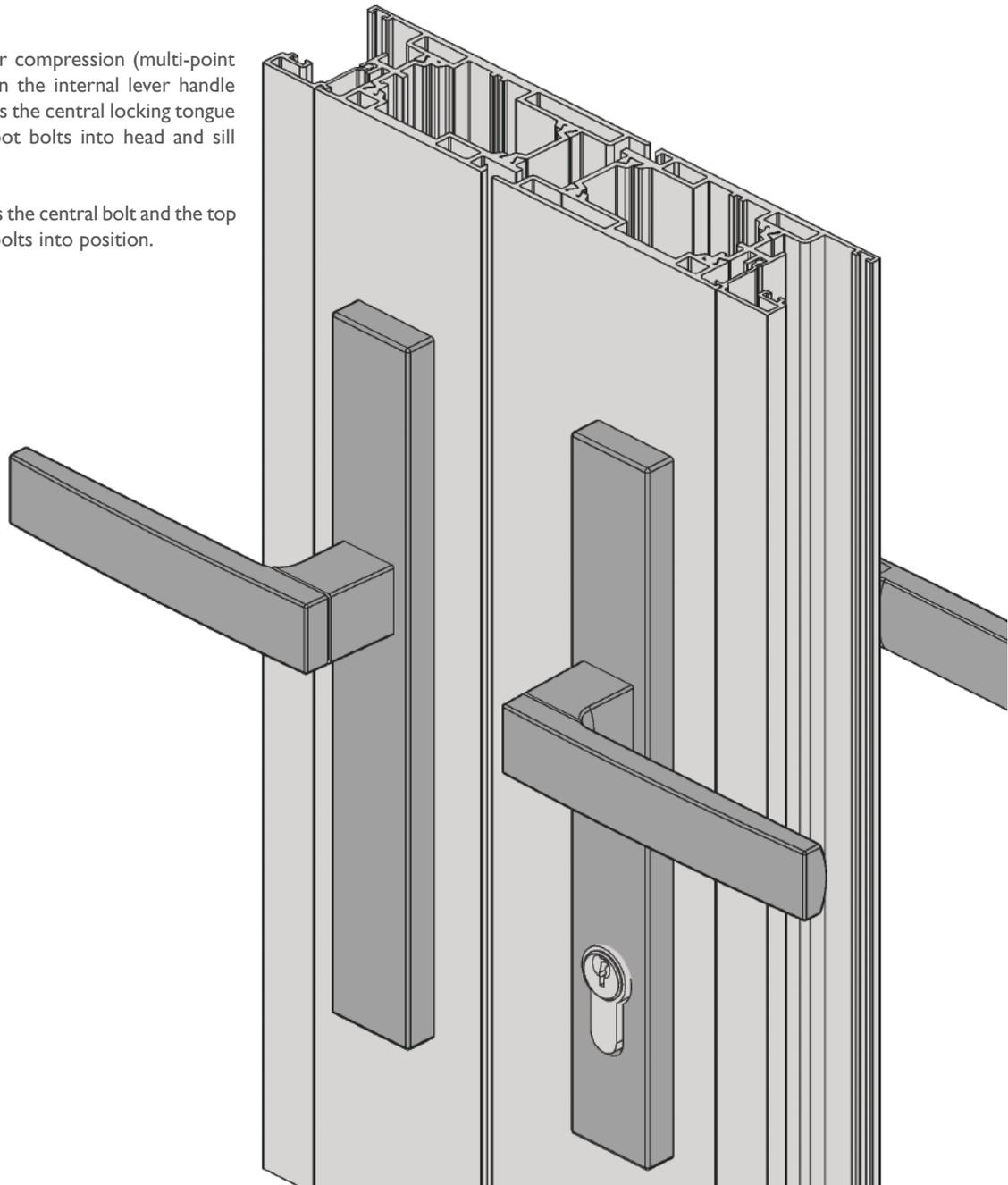
- 316 Stainless steel

Notes:

Four point locking has the centre latch tongue and throw bolt plus shoot bolts top and bottom.

To activate the lever compression (multi-point locking) feature turn the internal lever handle vertical, this activates the central locking tongue and pushes the shoot bolts into head and sill keeper.

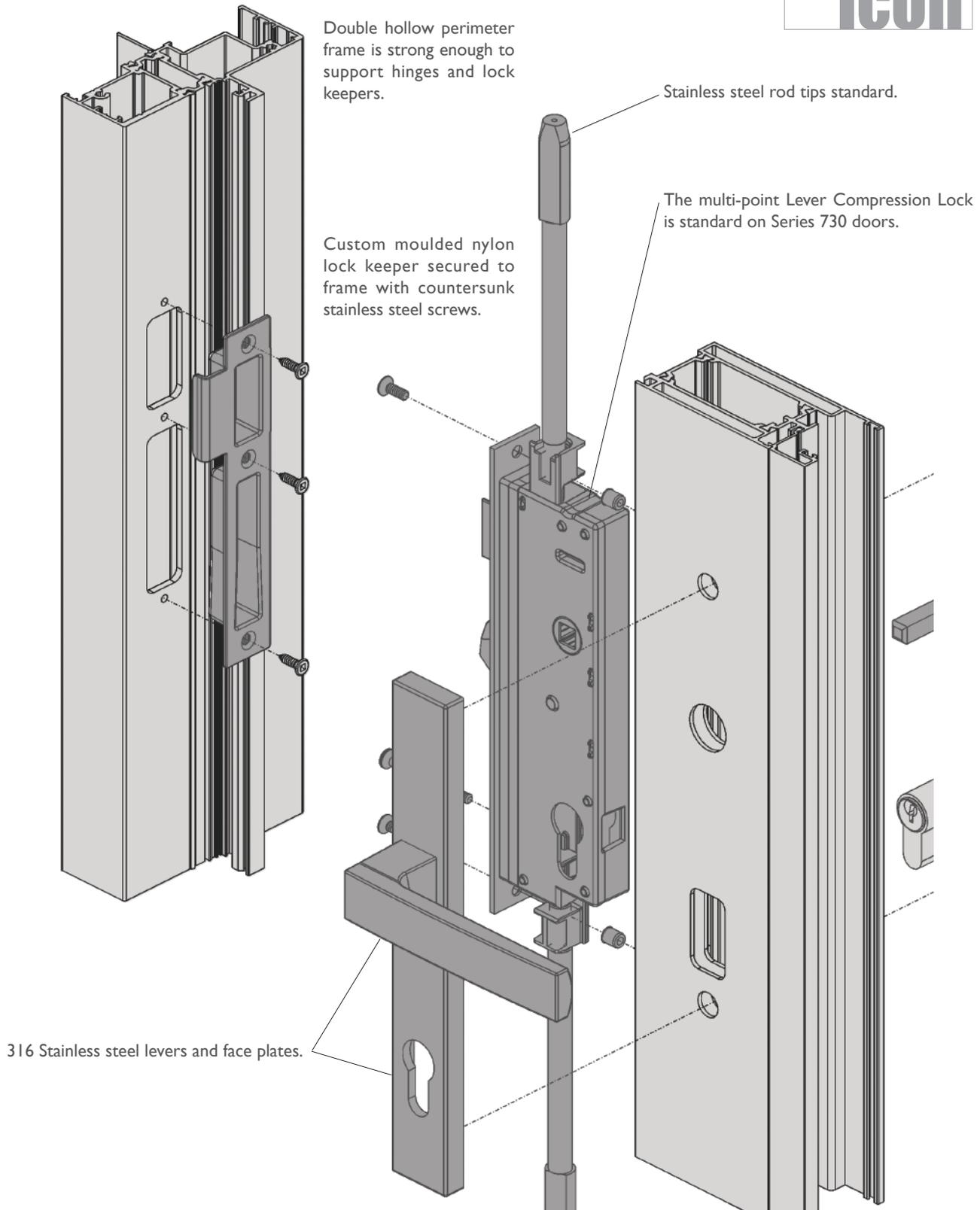
Turning the key locks the central bolt and the top and bottom shoot bolts into position.



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HARDWARE MAKES THE DIFFERENCE



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HARDWARE MAKES THE DIFFERENCE



Standard

Lever operated shoot bolt

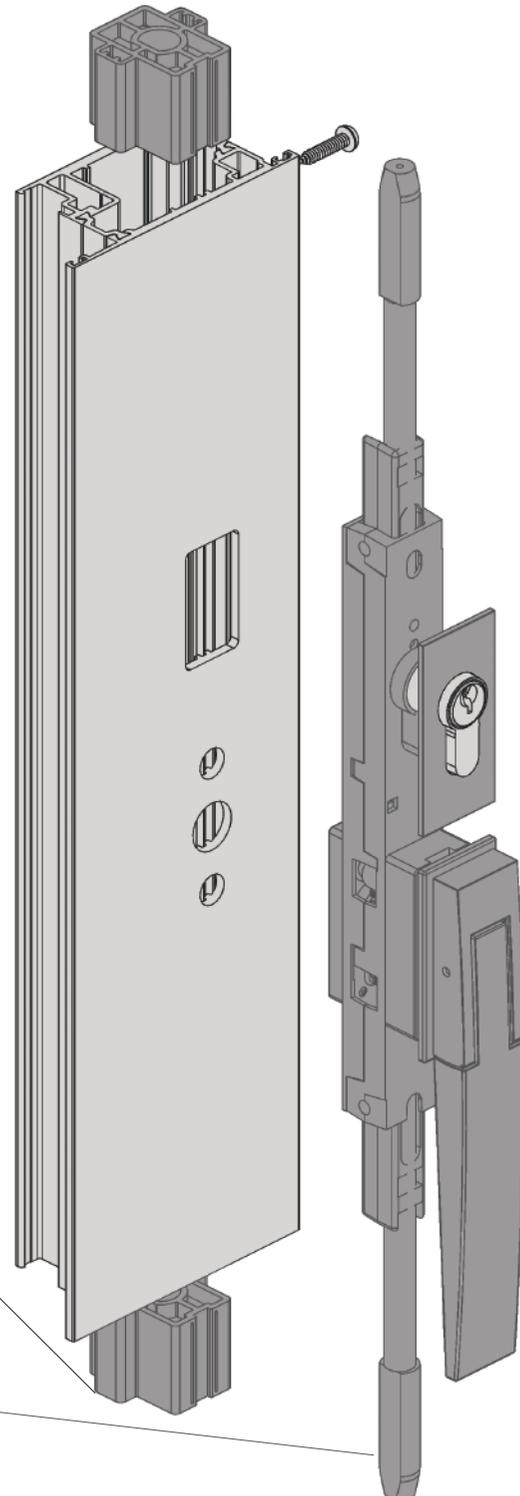
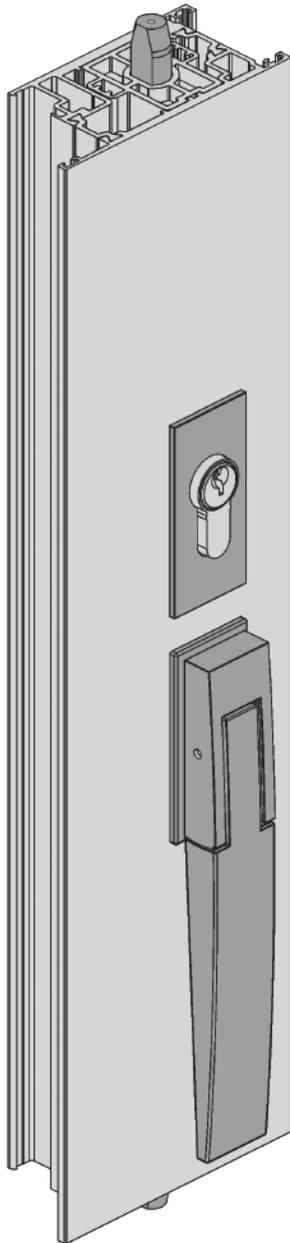
finishes available:

- 316 Stainless steel

This bi-fold activator handle has been designed to match ICON™ lever set.

The lever operated bolt systems activate both top and bottom bolts by turning the lever handle 90°.

Key locking activator set shown on this page. We also offer a non-key option.



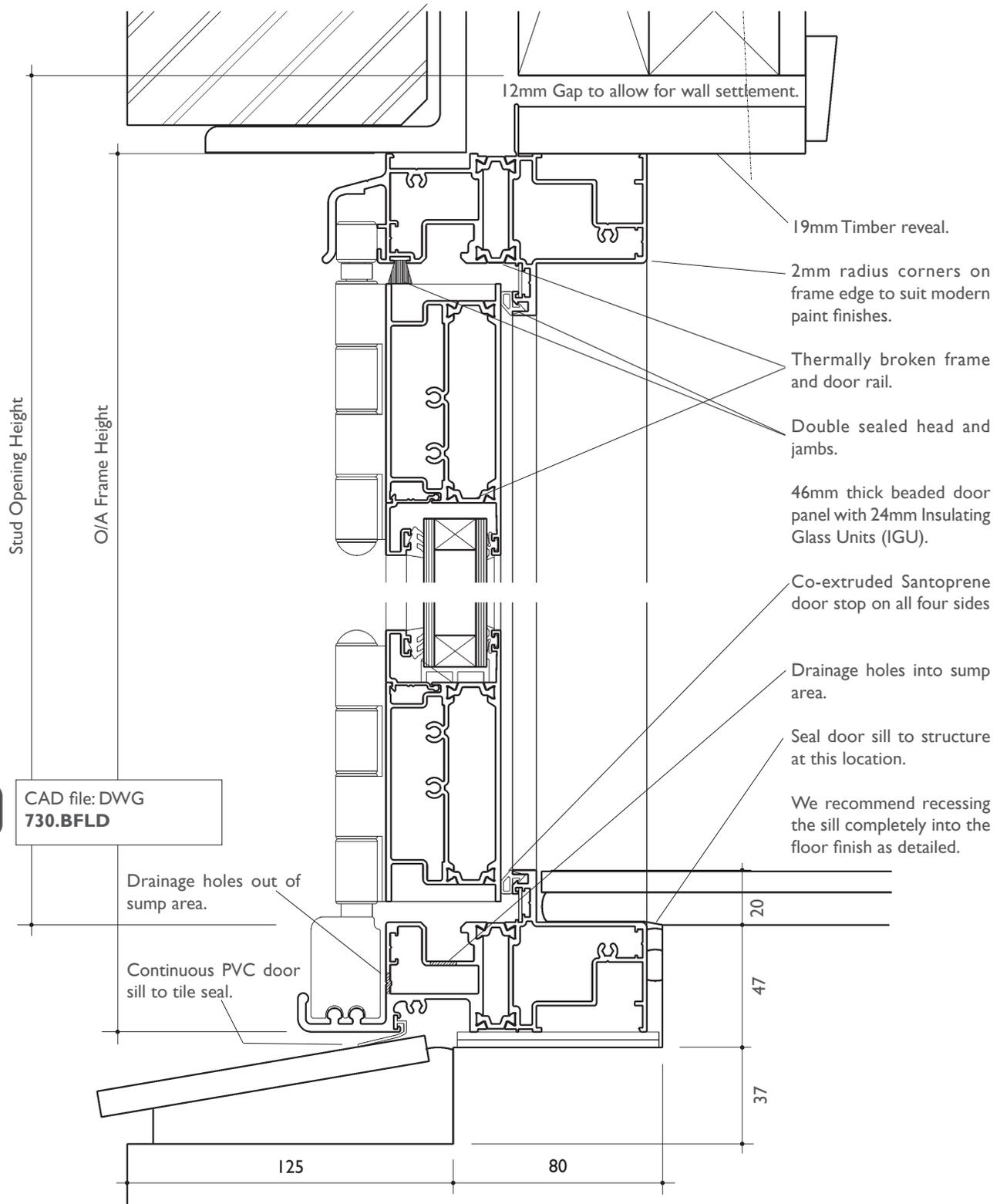
Moulded nylon bolt guide ensures that the shoot bolt sits snugly in the door stile and the flat spot on the bolt locks into the flat spot on the guide. This prevents the bolt from moving (dropping) after installation.

Stainless steel bolt tips.

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VERTICAL CROSS SECTION - RECESSED SILL INTO BRICK VENEER WALL



Brick veneer construction



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RECESSED SILL - INTERNAL VIEW

The double hollow thermally broken perimeter frame is designed to support the weight of door panels. The jamb is reinforced at hinge fixing locations.

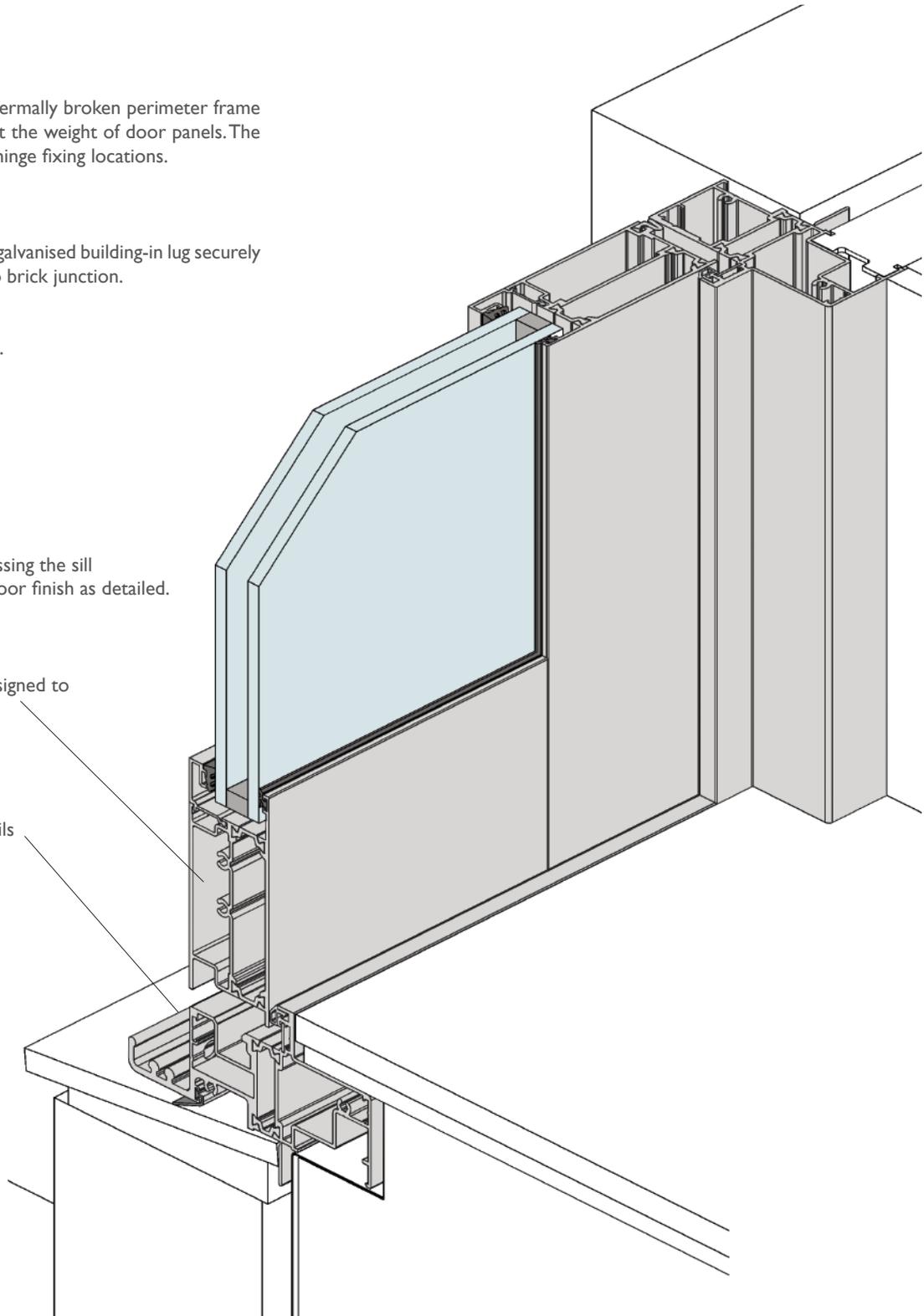
The height adjustable galvanised building-in lug securely supports the frame to brick junction.

24mm IGU illustrated.

We recommend recessing the sill completely into the floor finish as detailed.

Double hollow sill designed to support sill rollers

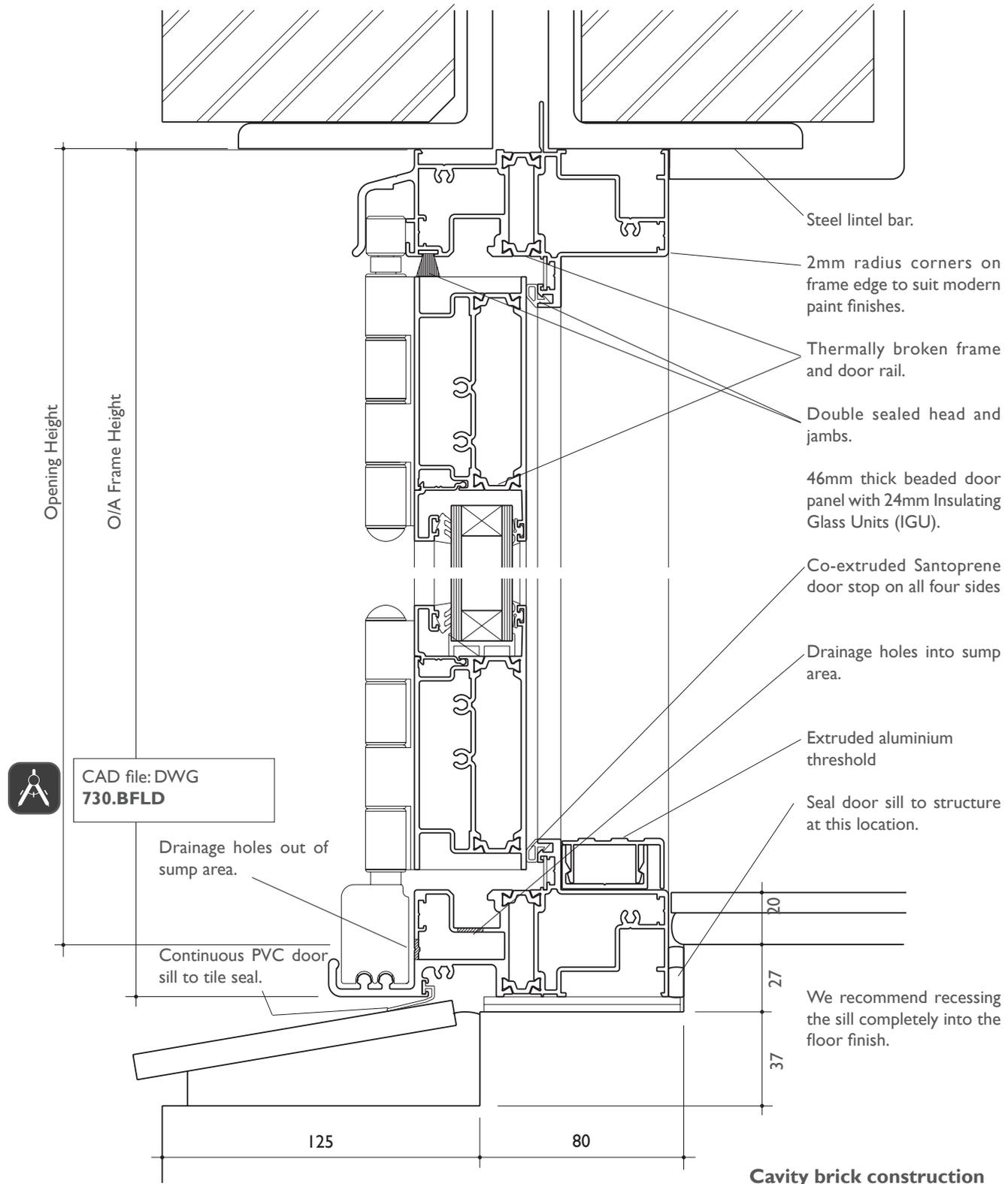
Double sill running rails



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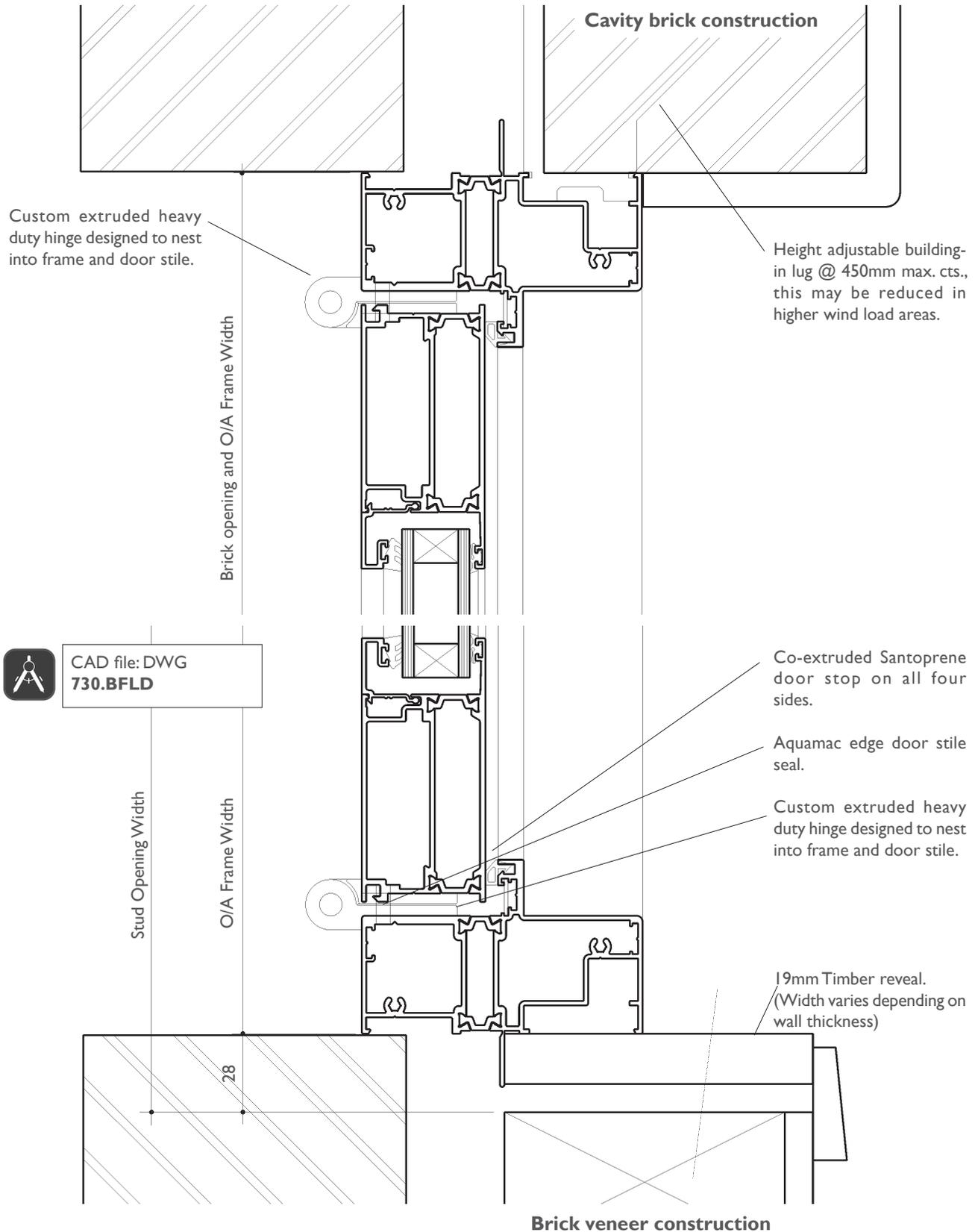
VERTICAL CROSS SECTION - CAVITY BRICKWALL WITH RECESSED SILL



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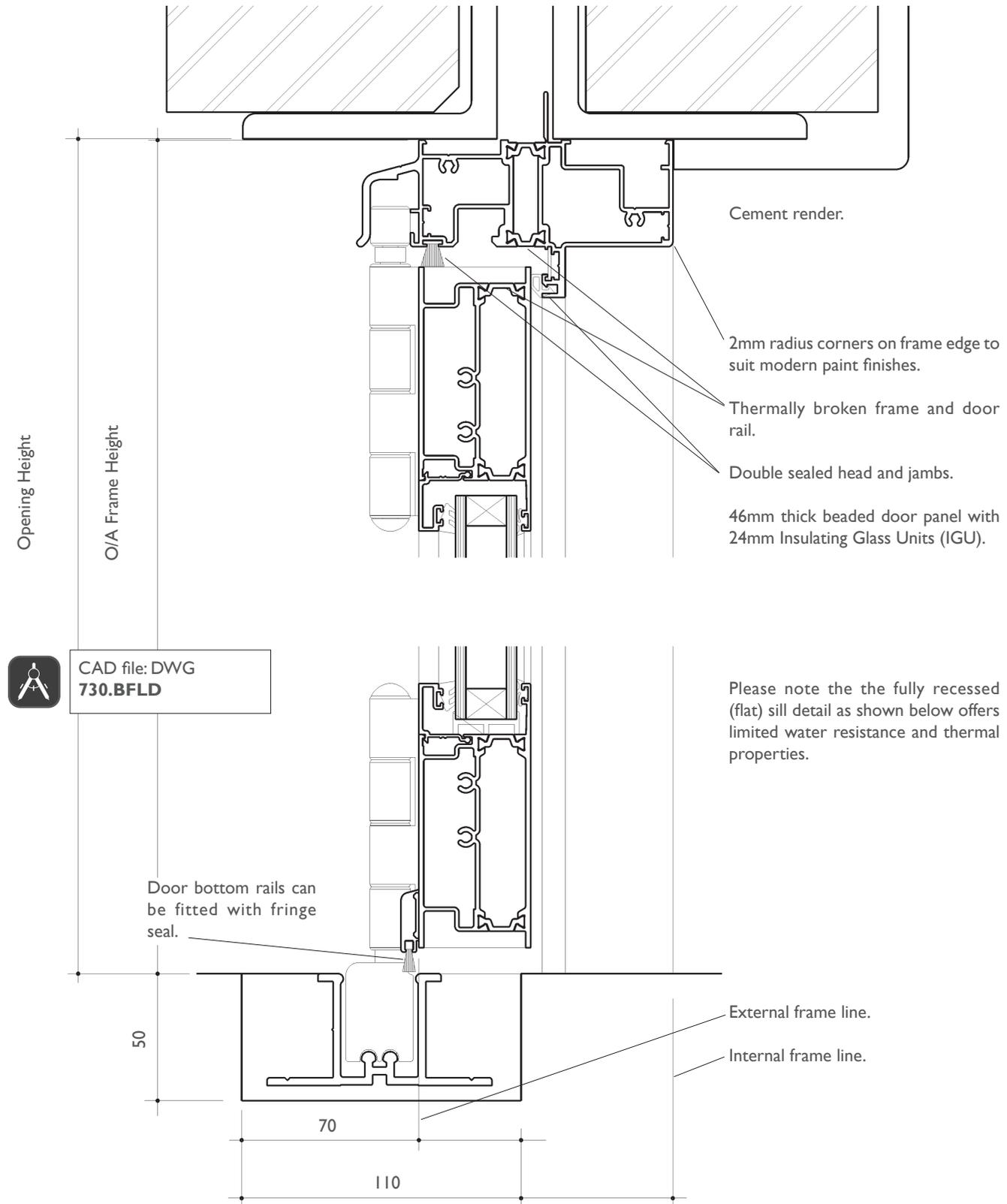
HORIZONTAL CROSS SECTION



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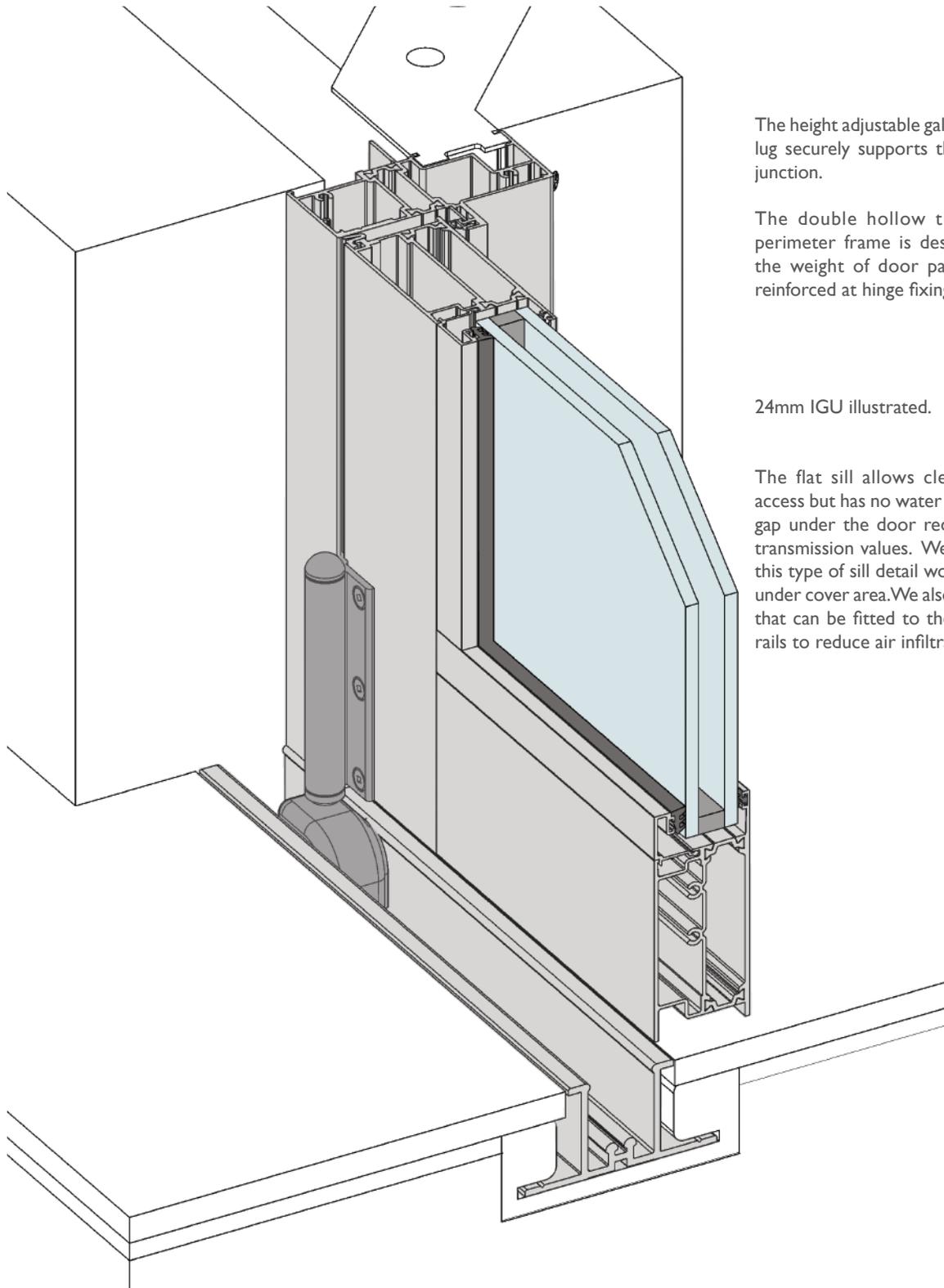
VERTICAL CROSS SECTION - FLAT RECESSED SILL INTO CAVITY BRICK WALL



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FLAT SILL - EXTERNAL VIEW



The height adjustable galvanised building-in lug securely supports the frame to brick junction.

The double hollow thermally broken perimeter frame is designed to support the weight of door panels. The jamb is reinforced at hinge fixing locations.

24mm IGU illustrated.

The flat sill allows clean unobstructed access but has no water resistance and the gap under the door reduces the thermal transmission values. We recommend that this type of sill detail would be fitted in an under cover area. We also offer a fringe seal that can be fitted to the bottom of door rails to reduce air infiltration.

Series 730 Thermally Broken Bi-fold Door

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CENTOR SCREEN PRODUCTION FEATURES

By far the largest and most robust retractable screening system on the market. The detail in this section show the screen fitted behind Series 730 Thermal Heart™ bi-fold door. The screen can be fitted to any of the Thermal Heart™ bi-fold door configurations including the maximum opening 'XXF', 'FXXXXF' up to 8887mm wide (with Standard weave mesh).

The S4 screen frame can be coloured to match the Thermal Heart™ bi-fold door frame.

Load Balancing Technology™ (LBT™) allows for effortless fingertip control. With no spring-loading to fight against, the screen's lead-stile remains firmly in any chosen position until further pressure is applied. Load-balancing also means far greater mesh tension across the screen, eliminating any tendency to sag.

Tight Technology™ manufacturing techniques ensure control of the horizontal edges of the screen so they remain straight and tight across the widest spans.

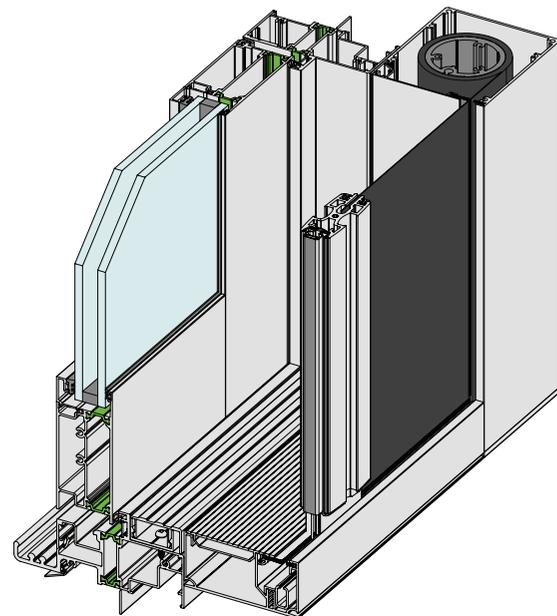
A shock absorption system allows visitors taken in by the screen's unobtrusiveness and near invisibility to walk away with little more than a surprise.

Should strong winds blow the screen out of the top or bottom channels the mesh will self-feed back onto the roll as it is rolled away.

The S4 screen is an evolution of the highly successful S1 screen with completely redesigned operating system including top and bottom tabs on the mesh to improve blowout resistance and allow blackout blinds to be added.

S4 is manufactured in stainless steel and reinforced engineered polymers. PetScreen Lite, the tough PVC coated polyester mesh used in the screen, is hard wearing and resistant to damage from pets and children. The mesh is easy to clean and can be replaced if damaged (service call required).

Large size screens available 3200mm high x 4611mm wide single or 9013mm wide double bi-parting screens (with Standard weave mesh). It's possible with a cavity sliding door and the S4 screen to get about 95% clear opening.



Screen Maintenance

Screen fabric should be cleaned with a soft brush or a damp soft cloth.

Tracking should be regularly cleaned to prevent the build-up of dirt and debris.

A vacuum cleaner fitted with a nozzle is effective. The S4 has an "easy fit" sill cover to facilitate simple cleaning and maintenance by the homeowner.

Operating mechanisms are fully contained and do not require maintenance other than keeping clear of dirt and debris.

Series 730 Thermally Broken Bi-fold Door

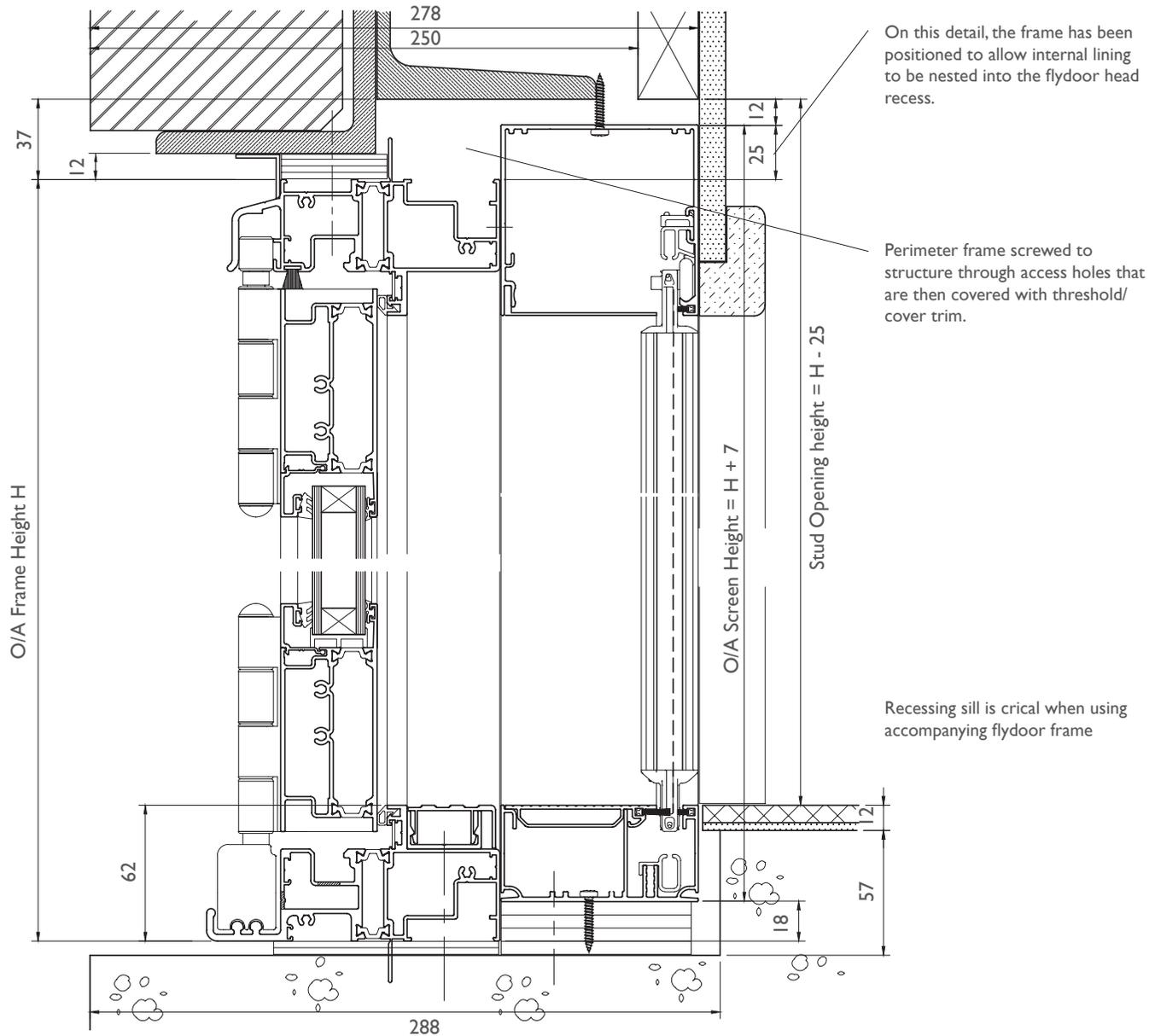
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VERTICAL CROSS SECTION WITH OPTIONAL FLY-DOOR

MAXIMUM STANDARD WEAVE SCREEN FRAME HEIGHT

Standard Weave mesh	3200mm
Tight Weave mesh	3200mm
Air Weave mesh	3200mm
Boston Blockout	3002mm
Boston Light-filtering	3002mm
Tuscany Blockout	3002mm
Tuscany Light-filtering	3002mm
Sunfilter	3200mm

The door can't support the structure. Lintels and headers must be capable of supporting the weight of wall and roof over.



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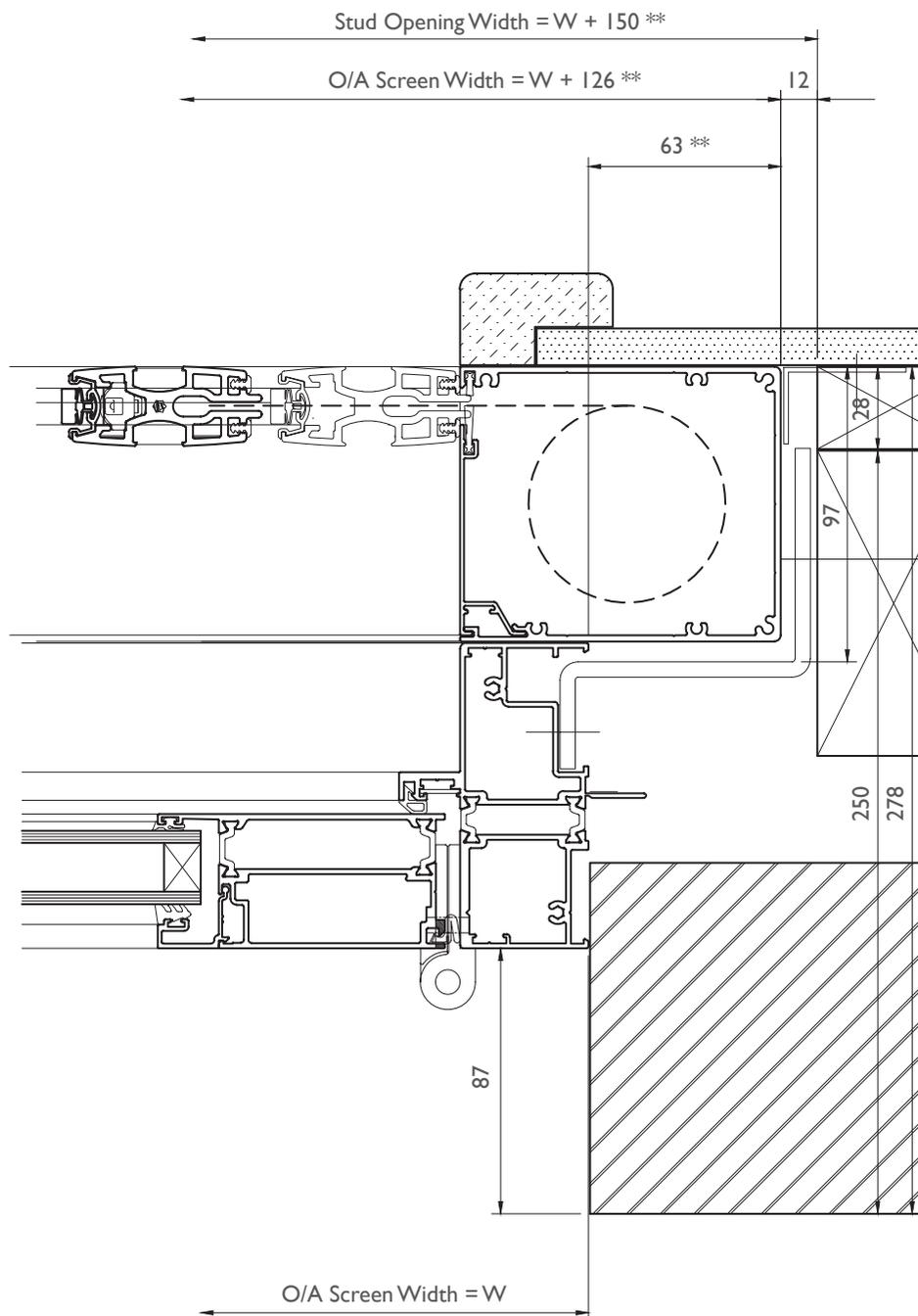
HORIZONTAL CROSS SECTION WITH OPTIONAL FLY-DOOR

The dimensions shown on this drawing are for flush jamb detail as drawn.

**** NOTE**

There are two types of bi-fold doors (BFD3 & BFD5) with double screens that will require 35mm rebated canisters.

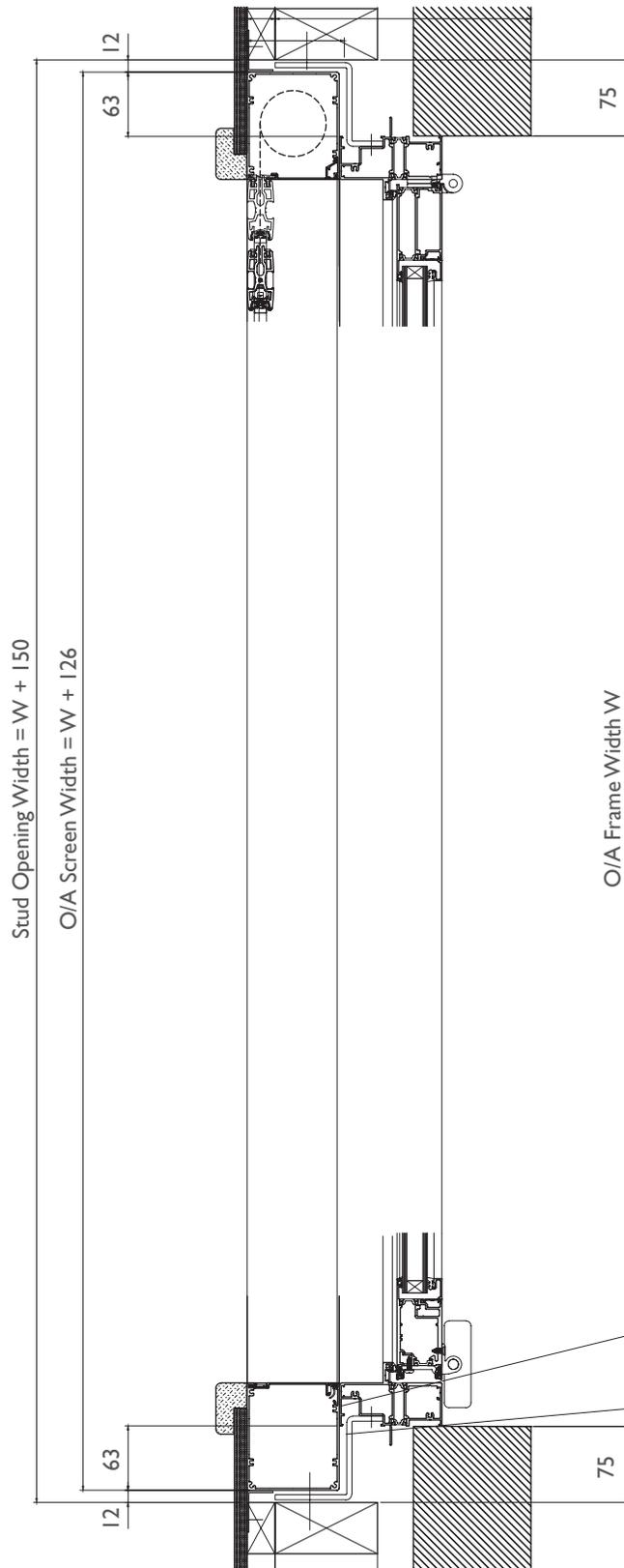
- 63mm will change to 98mm
- 126mm will change to 196mm
- 159mm will change to 220mm



Series 730 Thermally Broken Bi-fold Door

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HORIZONTAL CROSS SECTION - S4 SCREEN BEHIND 2 PANEL BI-FOLD



Bi-fold doors with equal number of panels using a single screen have to be less than 4485mm wide with Standard weave mesh.

Doors that could fall into these parameters are:

- BFD2
- BFD4
- BFD2+2
- BFD3+1 & BFD1+3
- BFD2+1 & BFD1+2

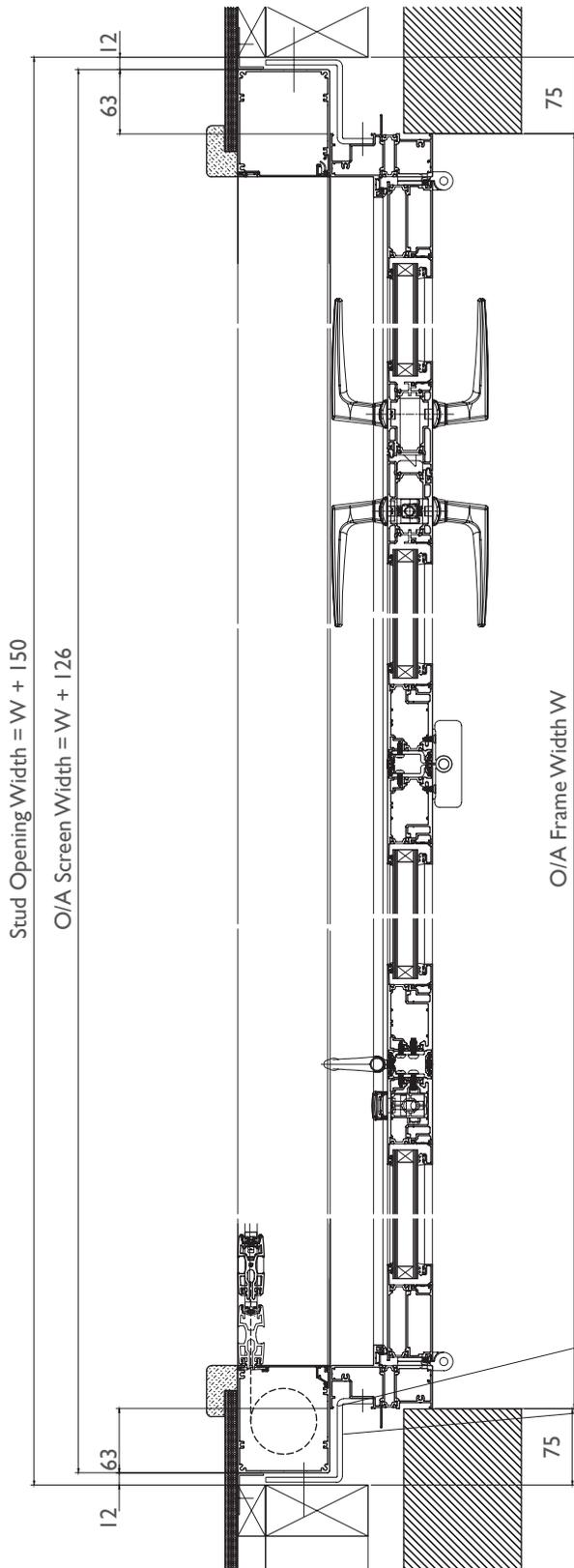
The screen canister is secured to the Bi-fold jamb with double sided tape.

75mm wide 5mm thick galvanised mild steel building-in lugs @ 450mm max. cts. These lugs are screwed to Bi-fold frame before installation.

Series 730 Thermally Broken Bi-fold Door

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HORIZONTAL CROSS SECTION - S4 SCREEN BEHIND 3+1 PANEL BI-FOLD



Bi-fold doors with equal number of panels using a single screen have to be less than 4485mm wide with Standard weave mesh.

The BFD3+I shown on this drawing falls into these parameters.

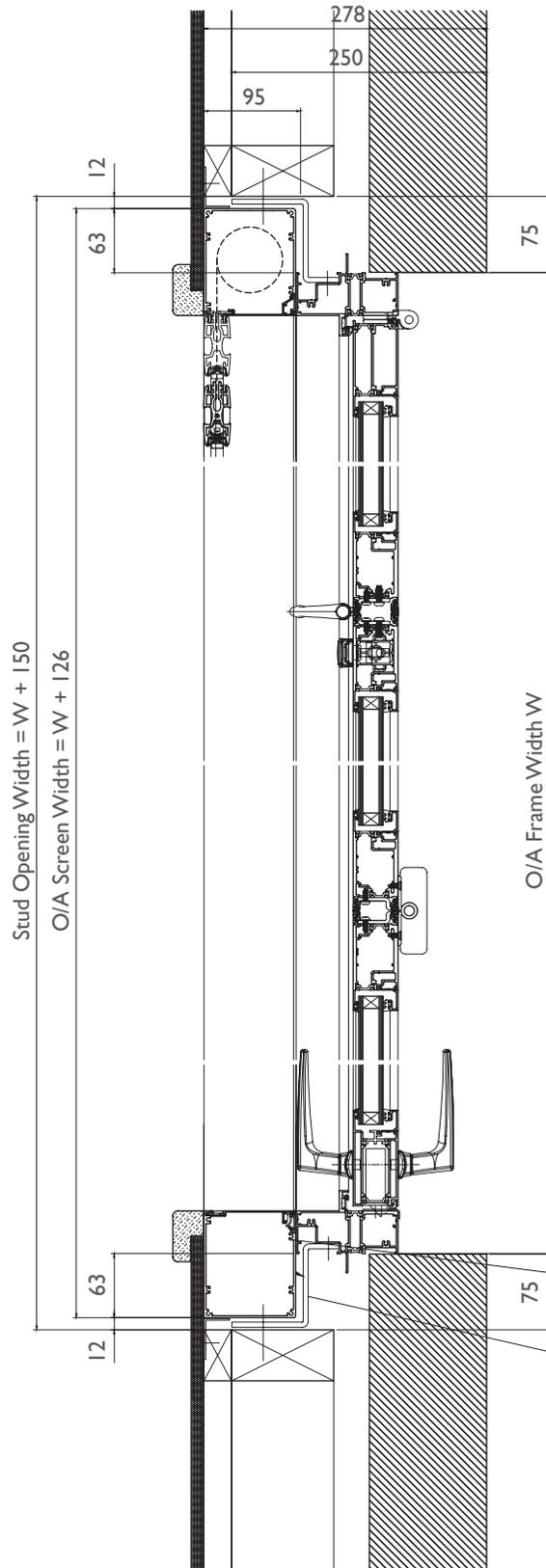
The screen canister is secured to the Bi-fold jamb with double sided tape.

75mm wide 5mm thick galvanised mild steel building-in lugs @ 450mm max. cts. These lugs are screwed to Bi-fold frame before installation.

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HORIZONTAL CROSS SECTION - S4 SCREEN BEHIND 3 PANEL BI-FOLD



Bi-fold doors with unequal number of panels using a double screen, when the bi-fold frame width exceeds 4485mm and less than 8817mm with Standard weave mesh.

Doors that could fall into these parameters are:

- BFD5 (width >4485 <=8817mm)
- BFD3 with Combo screen (width <4485)

The screen canister is secured to the Bi-fold jamb with double sided tape.

75mm wide 5mm thick galvanised mild steel building-in lugs @ 450mm max. cts. These lugs are screwed to Bi-fold frame before installation.

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HORIZONTAL CROSS SECTION - S4 SCREEN BEHIND 4 PANEL BI-FOLD



Bi-fold doors with unequal number of panels using a single screen have to be less than 4485mm wide with Standard weave mesh.

Doors that could fall into these parameters are:

- BFD3
- BFD5

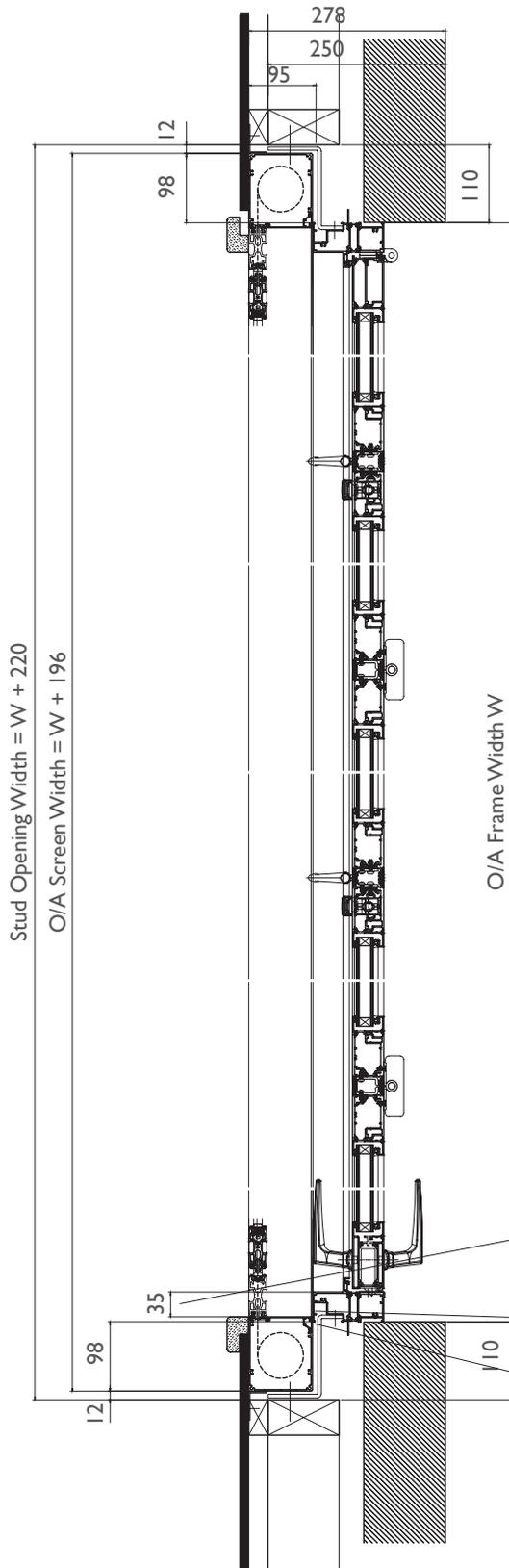
The screen canister is secured to the Bi-fold jamb with double sided tape.

75mm wide 5mm thick galvanised mild steel building-in lugs @ 450mm max. cts. These lugs are screwed to Bi-fold frame before installation.

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HORIZONTAL CROSS SECTION - S4 SCREEN BEHIND 3 PANEL BI-FOLD



Bi-fold doors with unequal number of panels using a single screen have to be less than 4485mm wide with Standard weave mesh.

Doors that could fall into these parameters are:

- BFD3
- BFD5

Screen canister rebated 35mm on BFD3 and BFD5 doors fitted with double screens as shown below.

The screen canister is secured to the Bi-fold jamb with double sided tape.

75mm wide 5mm thick galvanised mild steel building-in lugs @ 450mm max. cts. These lugs are screwed to Bi-fold frame before installation.

Series 730 Thermally Broken Bi-fold Door

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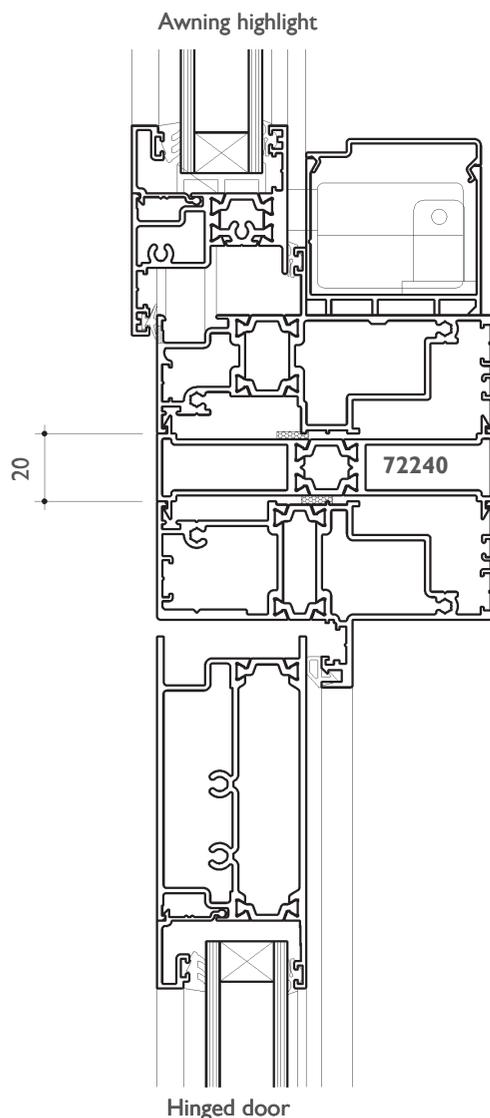
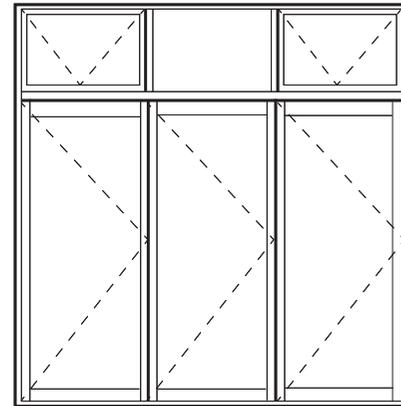
HIGHLIGHT COUPLERS

We have thermally broken couplers that will join awning frame to hinged or bi-fold doors as shown below. Couplers can be used vertically or horizontally.

Typical strength examples:

With an awning frame 600mm high over a door 2400mm high by 3600mm wide
Standard coupler 72240 would rate 1618Pa Serviceability (1/150) 2688Pa Ultimate.
Heavy coupler 72241 would rate 2529Pa Serviceability (1/150) 4688Pa Ultimate.
Extra Heavy coupler 72242 would rate 3333Pa Serviceability (1/150) 5000Pa Ultimate.

From this you can see that the standard coupler would suit most projects and the heavy coupler would get used on wider bi-fold or sliding doors or tall vertical couplers in higher wind load areas.



O/A Frame Width mm	Door Lowlight mm	Window Highlight mm	Service 1/150	Service 1/180	Ultimate
2400	2100	600	3333	3333	5000
2700	2100	600	3333	3333	5000
3000	2100	600	2899	2620	4348
3300	2100	600	2295	1913	3502
3600	2100	600	1730	1442	2888
3900	2100	600	1339	1115	2425
4200	2100	600	1058	881	2067
2400	2400	600	3333	3333	5000
2700	2400	600	3333	3333	5000
3000	2400	600	2746	2494	4118
3300	2400	600	2162	1802	3284
3600	2400	600	1618	1348	2688
3900	2400	600	1244	1037	2245
4200	2400	600	979	815	1905
2400	2700	600	3333	3333	5000
2700	2700	600	3333	3333	5000
3000	2700	600	2657	2422	3985
3300	2700	600	2075	1729	3137
3600	2700	600	1538	1281	2544
3900	2700	600	1174	979	2110
4200	2700	600	919	766	1782

Series 730 Thermally Broken Bi-fold Door

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HIGHLIGHT COUPLERS

O/A Frame Width mm	Door Lowlight mm	Window Highlight mm	Service 1/150	Service 1/180	Ultimate
3600	2400	600	2529	2108	4688
3900	2400	600	1945	1621	3619
4200	2400	600	1530	1275	3324
4500	2400	600	1226	1022	2860
4800	2400	600	999	832	2488
3600	2700	600	2404	2003	4437
3900	2700	600	1836	1530	3681
4200	2700	600	1436	1197	3109
4500	2700	600	1146	955	2664
4800	2700	600	930	775	2310

Wind Ratings (Pa) 72241

O/A Frame Width mm	Door Lowlight mm	Window Highlight mm	Service 1/150	Service 1/180	Ultimate
4500	2400	600	2085	1737	3379
4800	2400	600	1698	1415	2940
5100	2400	600	1402	1169	2583
5400	2400	600	1172	977	2288
5700	2400	600	990	825	2042
4500	2700	600	1949	1624	3147
4800	2700	600	1582	1318	2730
5100	2700	600	1302	1085	2392
5400	2700	600	1086	905	2114
5700	2700	600	915	763	1883

Wind Ratings (Pa) 72242

