

Series 412 ViewMASTER™ Bi-fold Door

Photo by Mel Hayes Photography, windows by Everclear Windows

LAWS

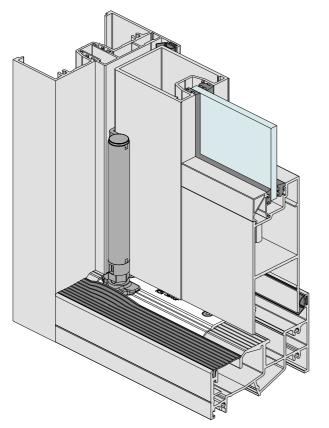


ARCHITECTURAL SERIES

Series 412 ViewMASTER™ BI-FOLD DOOR

DATE: AUG 20 REPLACES: MAY 13 SCALE: NOT TO SCALE

KEY FEATURES/PERFORMANCE CHARACTERISTICS



Series 412 ViewMASTER™ Bi-fold Door External view.

- Series 412 Bi-fold door (bottom rollers) has been designed to accept the 50mm thick heavy duty Series 50 and 52 doors.
- Can be manufactured with compliant panels up to 3000mm high (refer span tables).
- Bi-fold doors roll on Centor™ F3 stainless steel bearing rollers running in heavy duty concealed sill track.
- Heavy duty F3 will carry door panels up to 80kg.
- The Surelock[™] adjustment on the bottom pivots and carriers allow all panels to be lifted or lowered easily with a small flat screwdriver and spanner.
- Sill rollers and pivots are positioned under the door panels and covered with flexible co-extruded Santoprene flap. This sill flap folds over the sill carrier brackets as they roll along the sill.
- The sill flap keeps dust and water away from the sill rollers.
- As the rollers are under the doors there is no external projections. The 102mm frame is flush inside and out.
- Carriers, pivots, hinges and fixings supplied in 304 / 316 stainless steel.
- Top guide runs in semi rigid PVC channel insert to reduce noise.
- Snap-on jamb adapter allows us to offer an extensive range of jambs to cover almost any situation.
- Run through conventional CentreGLAZE[™] jambs allow us to offer highlights over bi-fold doors with run through jambs. Run through jambs are significantly stronger and waterproof.
- A variety of lever and lock options including multi-point and lever compression locking for added security and improved weather performance.
- Successfully tested to resist 300Pa water and suitable for air conditioned buildings when weather resisting sill is used.
- Can be configured to incorporate single or double entry doors so access can be achieved without opening the whole unit.
- We can fit Centor™ SIE roller flyscreens behind Series 412 bi-fold doors, details of SIE flyscreen shown in this section.

Maximum Panel Height*	3000mm
Maximum Panel Width*	1000mm
Maximum Glass Thickness	≤34mm

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



2D & 3D CAD FILES AVAILABLE

To access 2D & 3D CAD models visit our online specifier resource centre

www.specifyaws.com.au



MORE INFORMATION

For the latest updates regarding this product visit our website www.elevatealuminium.com.au/412



SOUND REDUCTION

A number of glass combinations have been tested with this system to acheive sound reduction numbers listed below.

Glass Description	Rating
6.5mm Laminated glass	Rw28
8.38 Laminated glass	Rw31

NOTE: The actual tests were carried out on a product very similar to this window (Series 411).

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HOW TO SPECIFY

SYSTEM NAME

Elevate[™] Aluminium Systems Series 412 View MASTER™ Bi-fold Door

FINISH

Powder Coat

Anodised

COLOUR

Select from the AWS range of approved powder coat or anodising colours

GLASS

Specify thickness \leq 24mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)



Specification Assistance

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



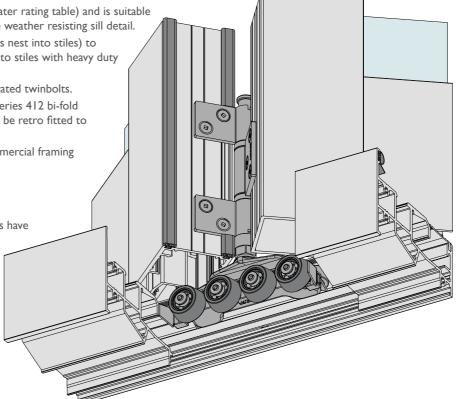
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DESIGN FEATURES

- The Elevate[™] Series 412 ViewMASTER[™] bottom rolling Bi-fold door has been designed to accept the 50mm thick heavy duty Series 50 and 52 doors. 50mm thick doors are almost 70% stronger than conventional 45mm thick doors. This allows us to make this Bi-fold door up to 3000mm high.
- Bi-fold doors roll on Centor[™] F3 stainless steel bearing rollers running in heavy duty track. The heavy duty F3 roller will carry door panels up to 80Kg.
- The detail below shows the heavy duty quad articulated intermediate carrier. The detail also shows the track sweeps positioned both sides of the rollers. These sweeps as the name implies sweep the track in front of rollers.
- The Surelock[™] adjustment on the bottom pivots and carriers allow all panels to be lifted or lowered to follow head and sill easily. Adjustment is done with a small flat screwdriver and spanner. As the structure (building) settles the doors can be adjusted to suit.
- Top carrier guides are fitted with side-thrust roller. These stainless steel rollers run in semi rigid PVC channel to reduce noise.
- Carriers, pivots, hinges and accompanying fixings come in 304 / 316 stainless steel as standard.
- The bottom rollers are positioned under the door panel and are covered with flexible co-extruded Santoprene flap.
- Bottom rolling bi-fold doors are ideal for renovation installations as you don't need a steel beam over to support the weight of the door panels.
- Rebated French door stiles give a flush appearance when the two doors meet (e.g. 3L1R and 3L3R) and provide superior weather protection.
- Concealed lock keeper specially designed to fit in the cavity on the leading edge of the "lazy side" door . This recessed keeper plus the rebated stile makes it difficult for intruders to access the latch and bolt for forced entry.
- With the snap-on jamb adaptor we can offer a very extensive range of jambs to cover almost any situation. This includes the nailing fin residential jambs.
- Bi-fold door with highlights have run through jambs to make the unit more stable and waterproof.
- The highlights can be fixed glazing, adjustable glass louvres or awning sashes. Highlight awning sashes can be fitted with concealed electric winders for the ultimate finish.
- Doors can be supplied with a variety of lever lock options including multi point locking for added security.
- Successfully water tested at 300Pa (refer water rating table) and is suitable for air-conditioned buildings when using the weather resisting sill detail.
- Seamless type door panel construction (rails nest into stiles) to conceal the assembly joint. Rails connected to stiles with heavy duty spigots.
- Bi-fold panels can be secured with key operated twinbolts.
- We can fit Centor roller flyscreen behind Series 412 bi-fold doors. Please note this flydoor system can't be retro fitted to existing Bi-fold.
- Compatible with most 102mm Elevate commercial framing and window systems

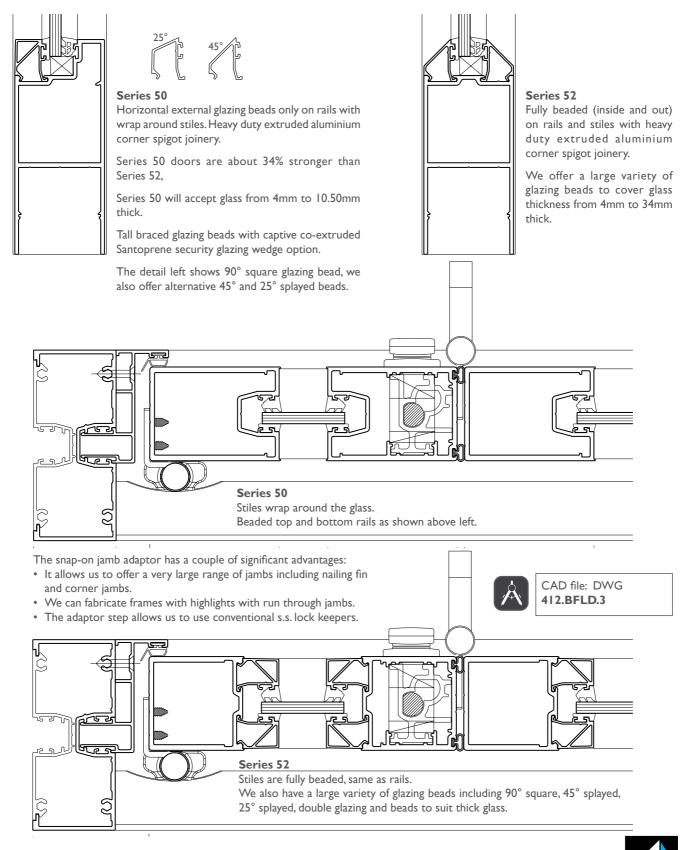
Limitations:

 The flat door sill and internal opening doors have no water resistance rating and are not suitable for airconditioned buildings.



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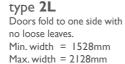
DOOR OPTIONS Elevate[™] offers two different types of doors that are suitable for Series 412 ViewMASTER[™] as shown below.

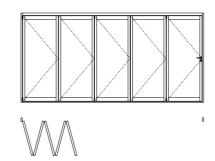


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PRODUCT RANGE & LIMITATIONS

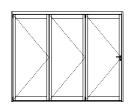




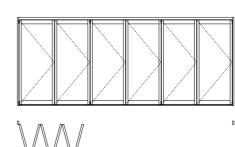


type **5L**

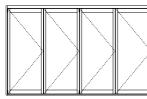
Doors fold to one side with one loose leaf on the end. Min.width = 3640mmMax. width = 5140mm



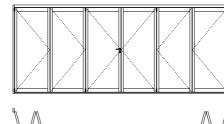
type **3L** Doors fold to one side with one loose leaf on the end. Min. width = 2232mm Max. width = 3132mm

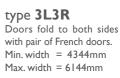


type **6L** Doors fold to one side with no loose leaves. Min. width = 4344mm Max. width = 6144mm



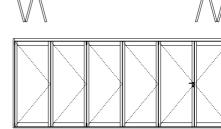
type **4L** Doors fold to one side with no loose leaves. Min. width = 2936mm Max. width = 4136mm

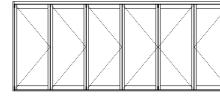






type 2L2R Doors fold to both sides with no loose leaves. Min. width = 2936mm Max. width = 4136mm





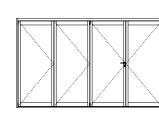
type **5LIR** Doors fold to one side with pair of French doors at end.

Min. width = 4344mm Max. width = 6144mm

type **4L2R**

Doors fold to both sides with no loose leaves. Min. width = 4344mm Max. width = 6144mm

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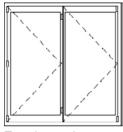


type **3LIR** Doors fold to one side with pair of French doors at end. Min. width = 2936mm Max. width = 4136mm

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PERFORMANCE & LIMITATIONS



Typical example type.2L

Important Notes:

The Ratings listed right cover the strength of the stile only. **S** = Serviceability limit state (deflection = L/180 and L/250).

U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using section properties.

Serviceability strength rating has been limited to 3333 Pa and Ultimate strength rating has been limited to 5000 Pa.

Panel	Panel		Series 50			Series 52	
Height	Width	S (Pa)	S (Pa)	U (Pa)	S (Pa)	S (Pa)	U (Pa)
mm	mm	1/180	1/250		1/180	1/250	
2100	700	2627	1891	5000	1957	1409	4550
2100	800	2331	1678	5000	1736	1250	4029
2100	900	2105	1516	4890	1568	1129	3630
2100	1000	1929	1389	4469	1437	1035	3318
2400	700	1741	1254	4651	1297	934	3453
2400	800	1540	1109	4106	1147	826	3048
2400	900	1385	997	3687	1032	743	2738
2400	1000	1264	910	3357	942	678	2493
2700	700	1214	874	3562	904	651	2711
2700	800	1071	771	3218	798	575	2389
2700	900	961	692	2884	716	516	2141
2700	1000	874	630	2619	651	-	1944
3000	700	880	634	2945	656	-	2187
3000	800	776	558	2592	578	-	1924
3000	900	695	500	2319	518	-	1722
3000	1000	631	-	2102	-	-	-

Wind Ratings (Pa) Bi-fold door meeting stiles.

Applies to those doors that don't have French meeting stiles:

2L, 2LIR, 3L, 4L, 2L2R, 4LIR, 3L2R, 5L, 4L2R, 6L,

2R, 2RIL, 3R, 4R, 4RIL, 3R2L, 5R, 4R2L and 6R.

The following configurations are slightly weaker as they contain one set of French meeting stiles: 3LIR, 5LIR, 3L3R, 3RIL and 5RIL.

For this meeting stile combination go to the Series 400 swing door Pa tables.

Maximum Bi-fold Door Panel Sizes

Maximum panel weight	80 kg per panel.
Minimum panel width	700mm (on equal panel doors without loose door leaf - 2L, 2R, 4L, 4R, 6L, 6R, 2L2R, 2L4R & 4L2R) 600mm (on remaining door types with a loose leaf in the configuration).
Maximum panel width	1000mm
Maximum panel height	3000mm Panel sizes will vary depending on weight, design wind load and allowable metal deflection. Double glazed doors may be limited by the availability of large IGU panels.
Hinge quantity	 3. hinges - height less than or equal to 2200mm 4. hinges - height greater than to 2200mm When using four hinges we recommend that the lower central inner hinge has the pull handle.

Sound Transmission Loss

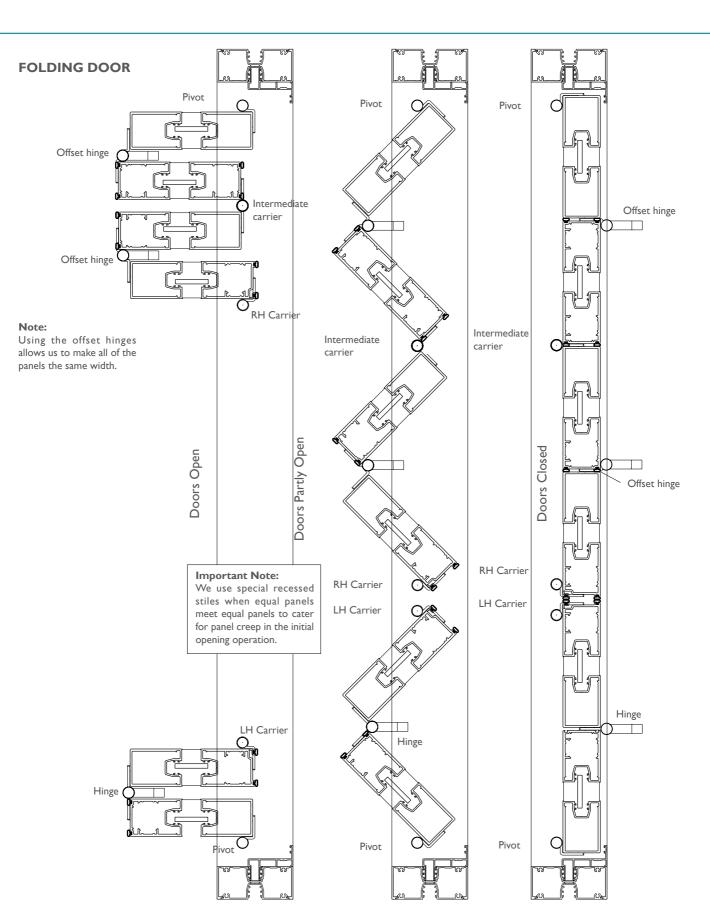
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Door glazed with 6.38mm laminated glass rates Rw28 (A)

Door glazed with 19mm IGU made up of two layers of 5mm toughened glass rates 32 dB(A) Based on tests carried out on a similar product (Series 548).



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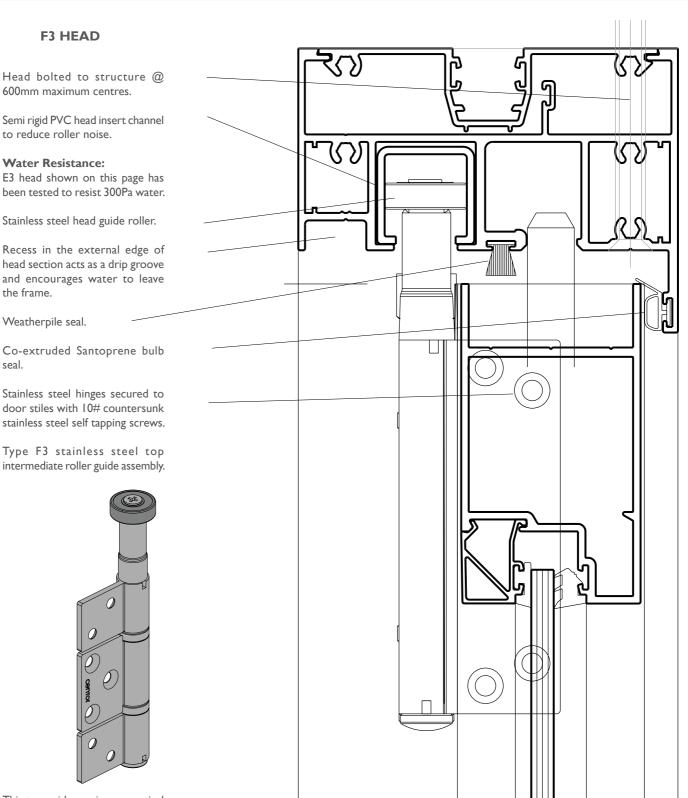




Series 412 ViewMASTER[™] BI-FOLD DOOR

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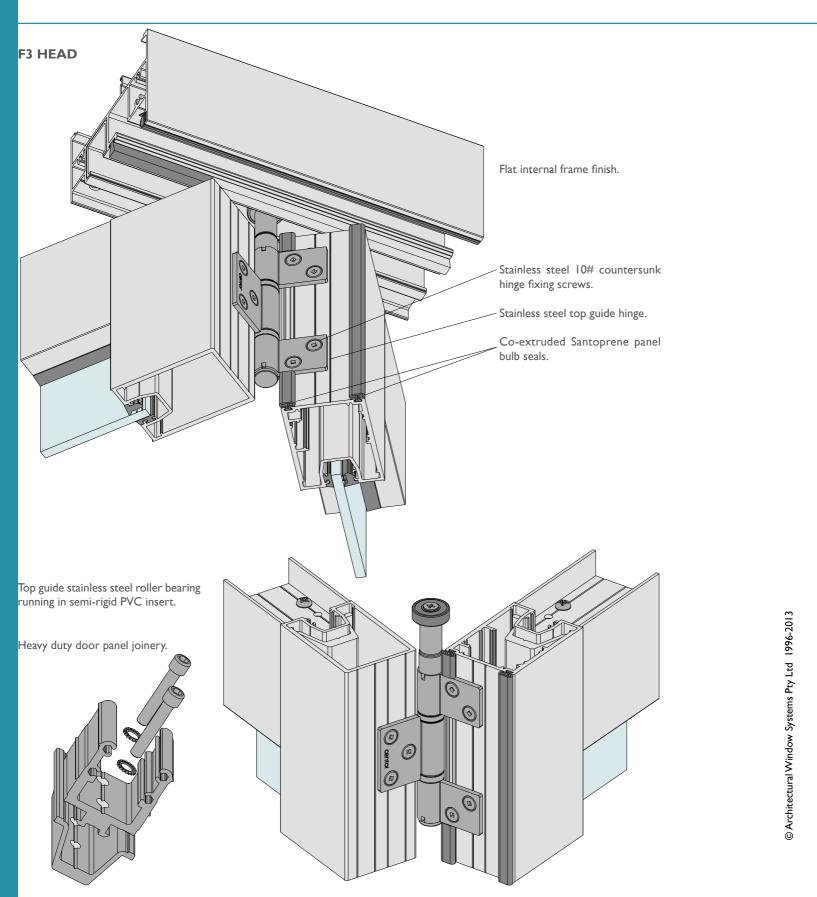


This top guide carries no vertical loading.All weight is carried by the articulated bottom rollers. There is approximately 5mm plus and minus adjustment in this top guide. The detail right shows the guide in the nominal location.

CAD file: DWG

412.BFLD.1

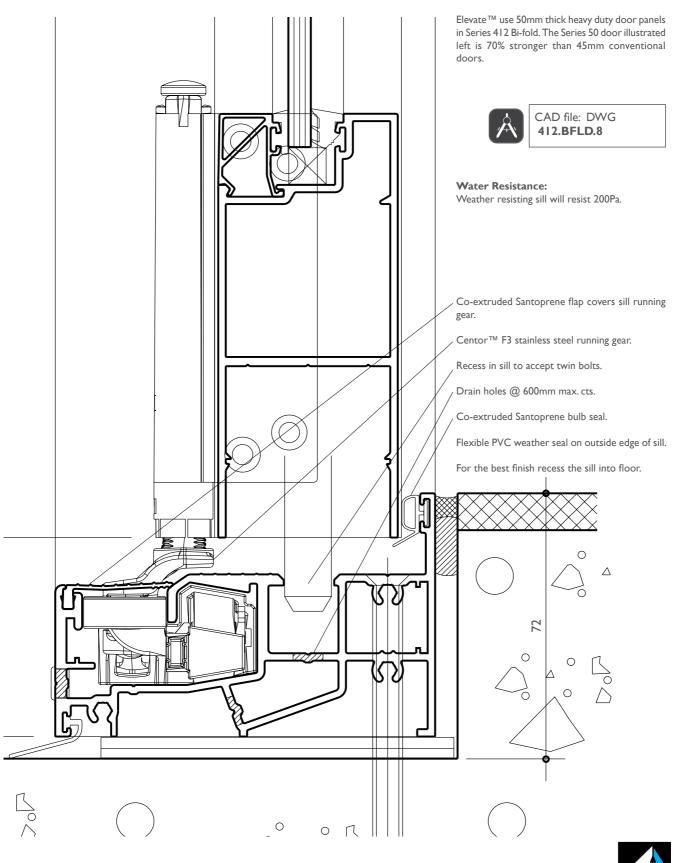
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SILL - WEATHER RESISTING





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Some of the major features with the Elevate[™] ViewMASTER[™]

bottom running Bi-fold door frame are :

SILL - WEATHER RESISTING

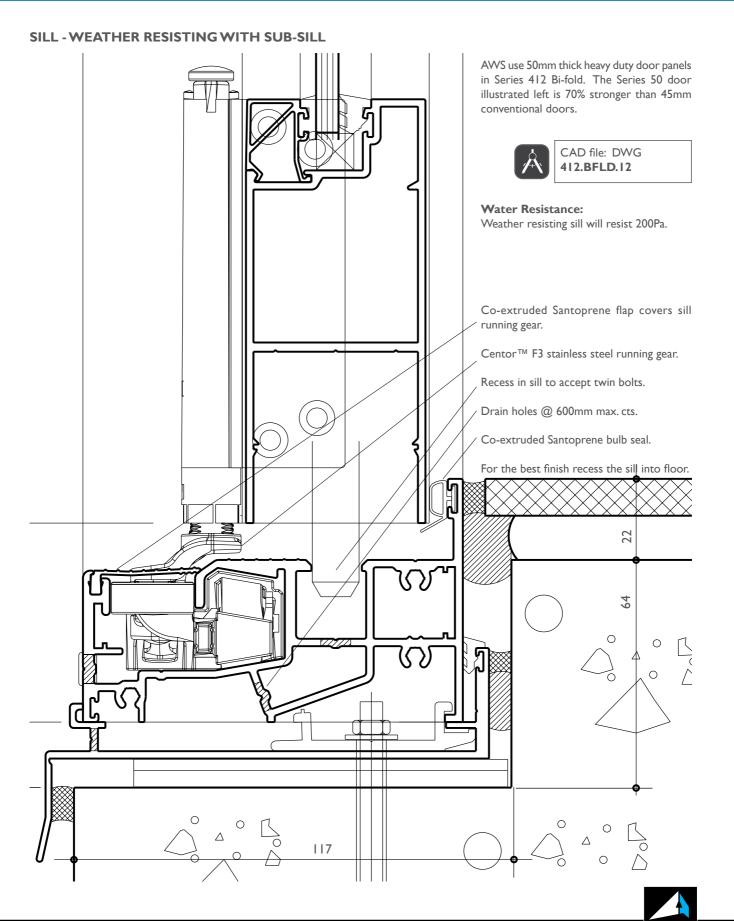
Tested for compliance with relevant Australian Standards. We • always test the maximum recommended size when possible. In this situation we successfully tested a 3000mm \times 4000mm four panel door. 102mm Commercial frame matches adjoining Architectural . commercial products. Can be coupled to most of these matching frames if required. Numerous $\mathsf{Elevate}^{{}^{\mathrm{T}\!\mathrm{M}}}$ CentreGLAZE^{{}^{\mathrm{T}\!\mathrm{M}}} jambs to choose from (102 x 44mm illustrated). . The 50mm panels we use in this Bi-fold door are approximately 70% stronger than conventional industry standard 45mm thick doors. Based on manufacturers published span charts. LouvreMASTER[™] sun control shutters can be fitted into this . system. . ClearVENT[™] sashless double-hung inserts can be fitted into door panels. The weather resisting sill shown on this page is what we recommend if you want to keep water out. 6) Quad articulated intermediate bottom roller.

We offer a variety of sill types with this Bi-fold door system. The detail on this page shows the weather resisting option.

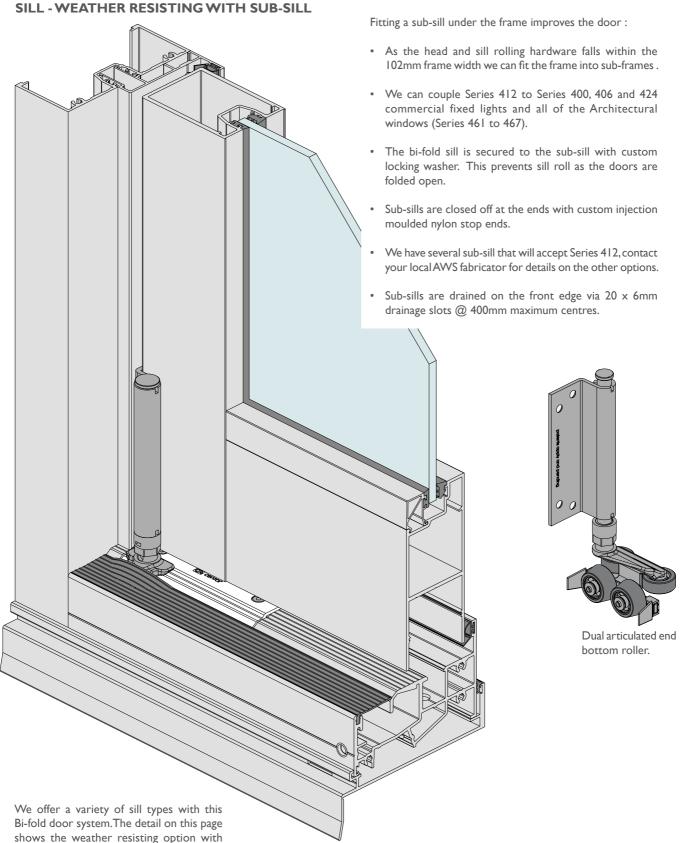


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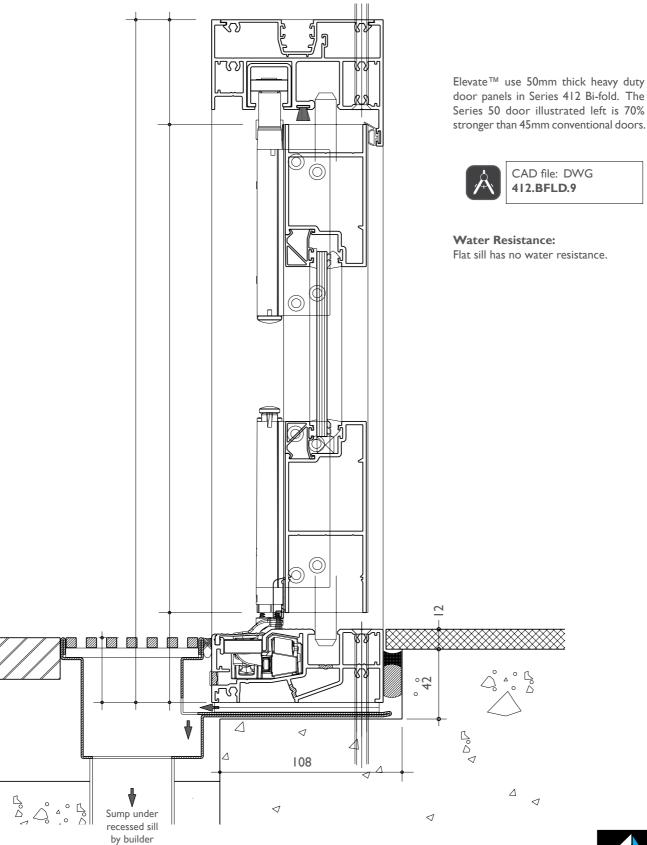
snows the weather resisting sub-sill under.

LAWS

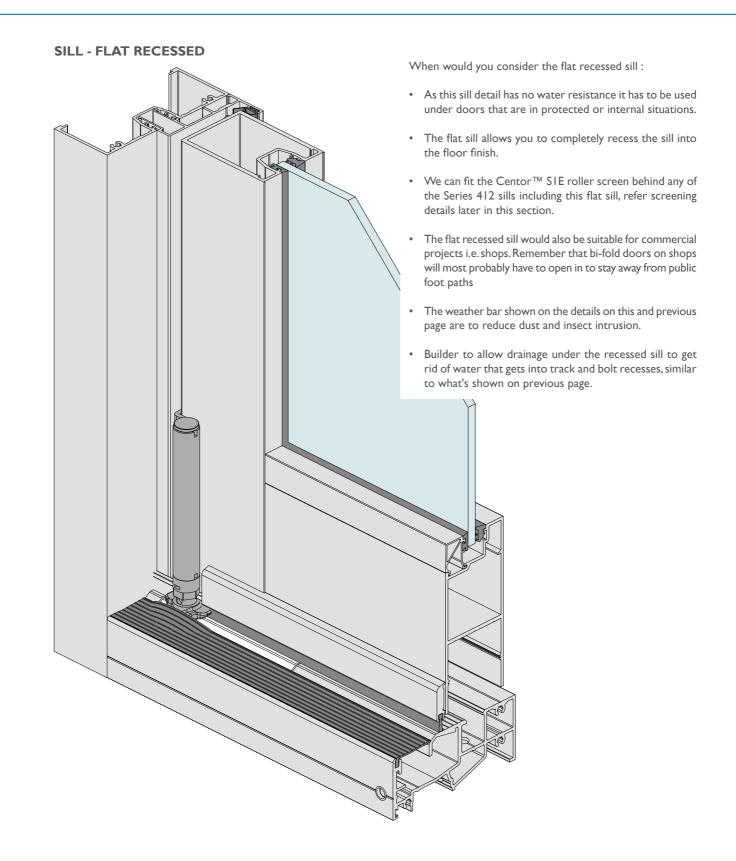
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SILL - FLAT RECESSED



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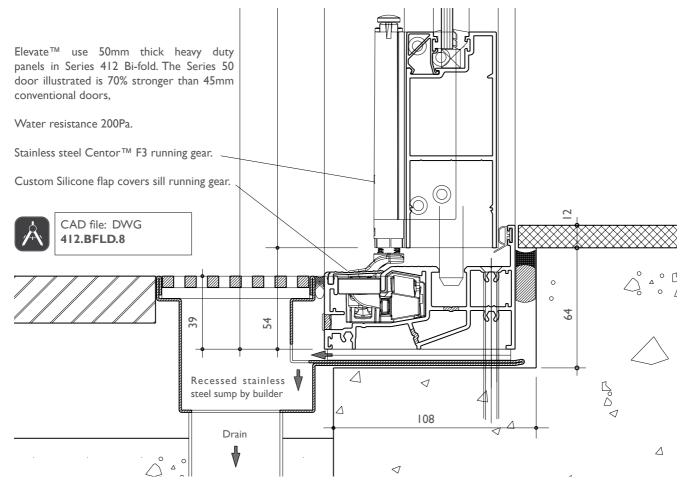


We offer a variety of sill types with this Bi-fold door system. The detail on this page shows the flat recessed sill option.

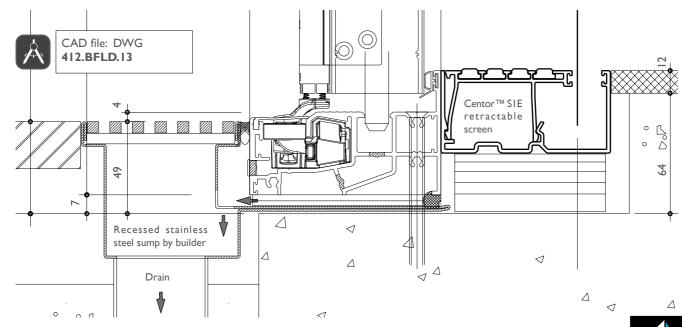
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SILL - WEATHER RESISTING with LINEAL DRAIN







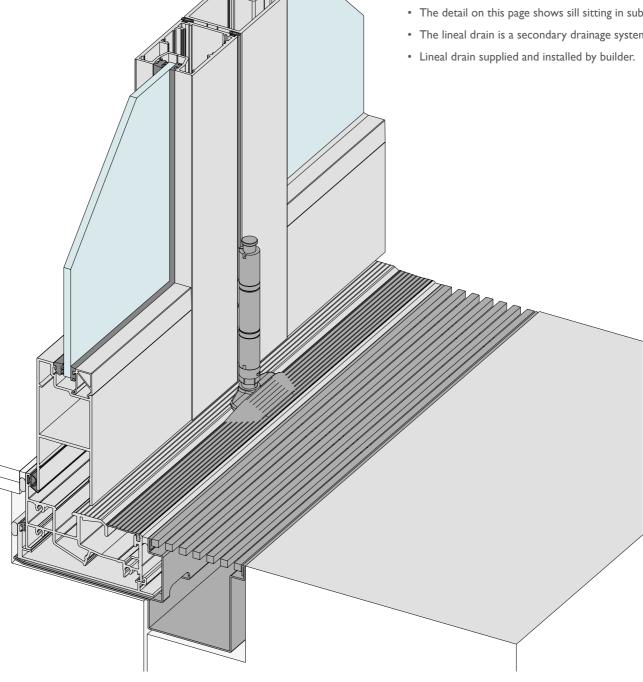
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SILL - WEATHER RESISTING with LINEAL DRAIN

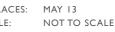
Some of the features with Elevate[™] ViewMASTER[™] bottom rolling weather resisting sill doors are :

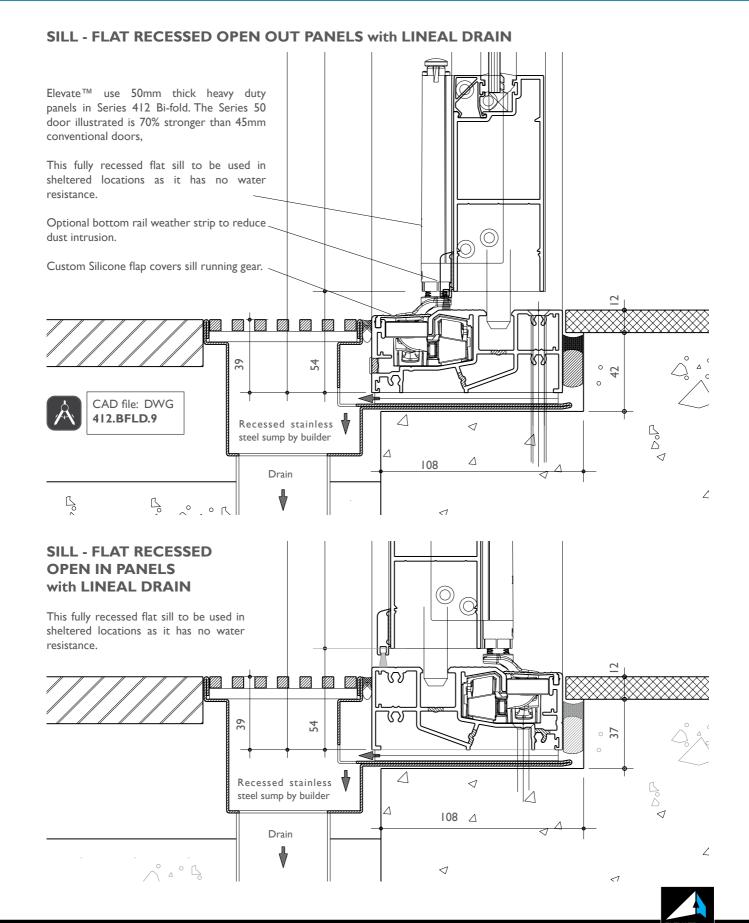
· Tested for compliance with relevant Australian Standards. We always test the maximum recommended size when possible. In this situation we successfully tested a 3000mm high x 4000mm wide four panel door.

- The stainless steel lineal drain has been custom designed to suit the Series 412 sill configuration.
- The detail on this page shows sill sitting in sub-sill.
- The lineal drain is a secondary drainage system.









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SILL - FLAT RECESSED OPEN OUT PANELS with LINEAL DRAIN

Some of the features with Elevate[™] ViewMASTER[™] bottom rolling flat sill doors are : • Clear flat access when panels are open. • Optional bottom rail weather strip available to reduce dust intrusion. • The detail on this page shows sill sitting in sub-sill. • The lineal drain is a secondary drainage system. • Lineal drain supplied and installed by builder.



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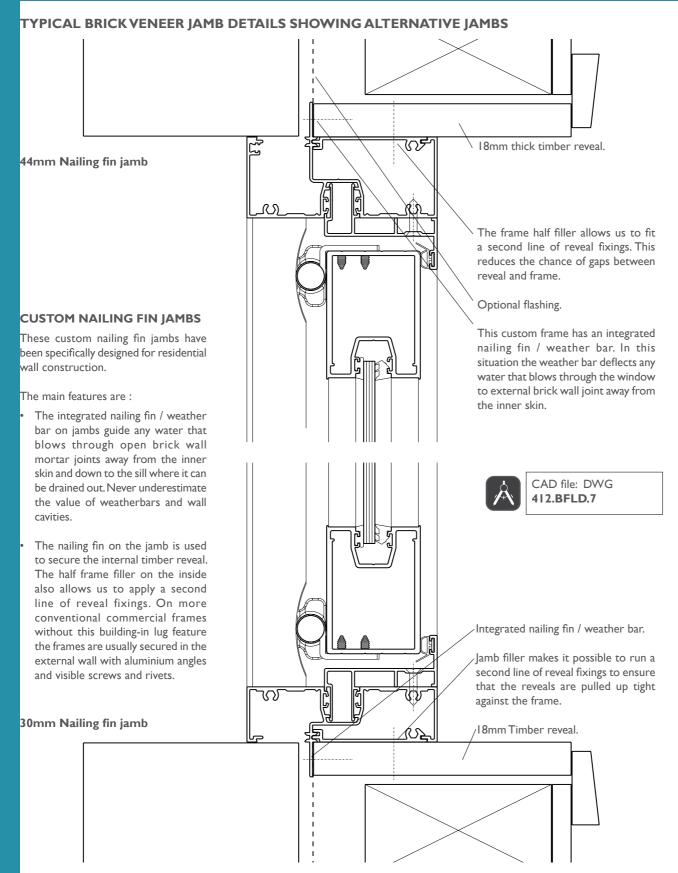
TYPICAL CAVITY BRICK JAMB DETAILS SHOWING ALTERNATIVE JAMBS ()ئے לא 44mm Nailing fin jamb Height adjustable galvanised building-in lugs @ 450mm max. cts. ഭാ This custom frame has an integrated nailing fin / weather bar. In this situation the weather bar deflects any water that blows through the window to external brick wall joint away from the inner skin **CUSTOM NAILING FIN JAMBS** These custom nailing fin jambs have been specifically designed for residential wall construction. The main features are : CAD file: DWG • The integrated nailing fin / weather 412.BFLD.6 bar on jambs guide any water that blows through open brick wall mortar joints away from the inner skin and down to the sill where it can be drained out. Never underestimate the value of weatherbars and wall cavities. · The nailing fin jambs will accept height adjustable galvanised steel building-in lugs. These lugs hold the frame in the wall. On more conventional commercial frames without this building-in lug feature the frames are usually secured in the wall with aluminium angles and visible screws and rivets. Integrated nailing fin / weather bar. Height adjustable galvanised building-in Ś থ্য্য lugs @ 450mm max. cts. 30mm Nailing fin jamb ()



Australian registered design.

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MEETING STILES - HINGE

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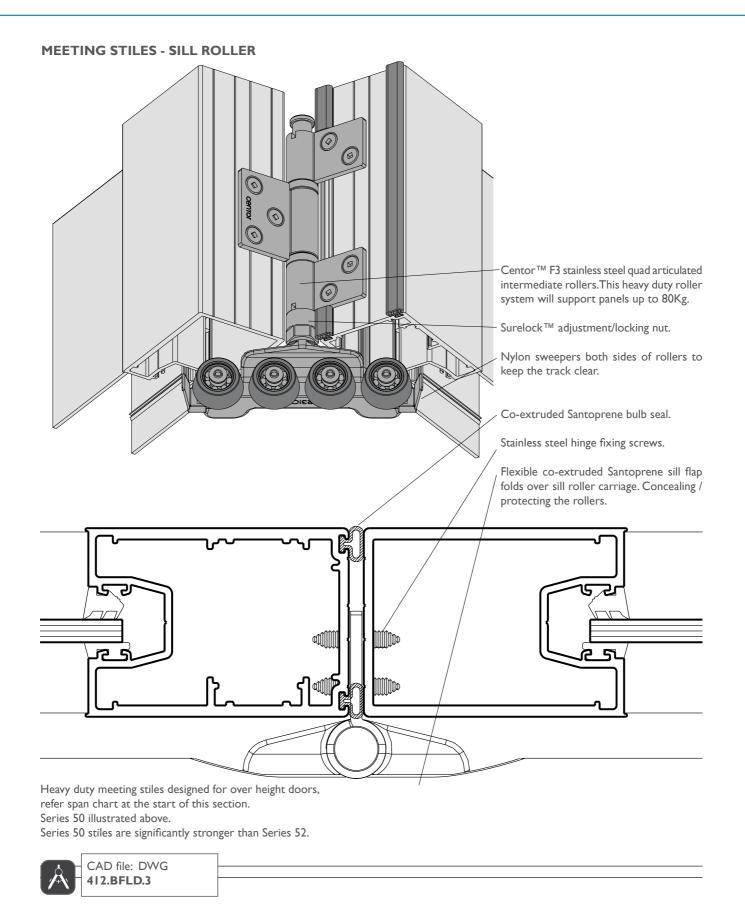
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Custom designed stainless steel central hinge/s has pull handle as shown above to make it easier to close and secure the folding panels. Custom designed stainless steel hinges easily locate into stiles and are fixed with countersunk stainless steel screws. Proprietary ANDOTM and ICONTM twinbolt activators come in key or nonkey versions. Details on both versions shown later in these notes. Co-extruded Santoprene door bulb seals fitted to stiles inside and out. Series 52 fully beaded stiles illustrated. Series 50 shown on following page.

Heavy duty meeting stiles designed for over height doors, refer span chart at he start of this section. Series 52 illustrated.



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FRENCH MEETING STILES

French meeting stiles have been designed to accept:

- ANDO[™] Lever twinbolt for the keeper stile.
- ANDO[™] Lever latch set illustrated below. This proprietary locks come in two or four point locking. When the panel height exceeds 2100mm we recommend four point locking to keep the top and bottom of the stile against the seals under wind load.
- ANDO[™] lever furniture comes in a variety of powder coat finishes and marine grade 316 stainless steel.
- ICON[™] locks can also be fitted to Series 412 stiles, refer details on later page.
- Lock stile will also accept Lockwood 3580 and Legge 995MF latch sets.
- When using the Lockwood, Legge or Dorma latch sets use finger operated flushbolts on the keeper stile.

Detailed information on all of these hardware options shown on following pages.

Flushbolts and ANDO[™] bolts are supported with custom extruded aluminium guides.

Meeting stiles are sealed with co-extruded Santoprene wiper seals.



Alternative Handle Available



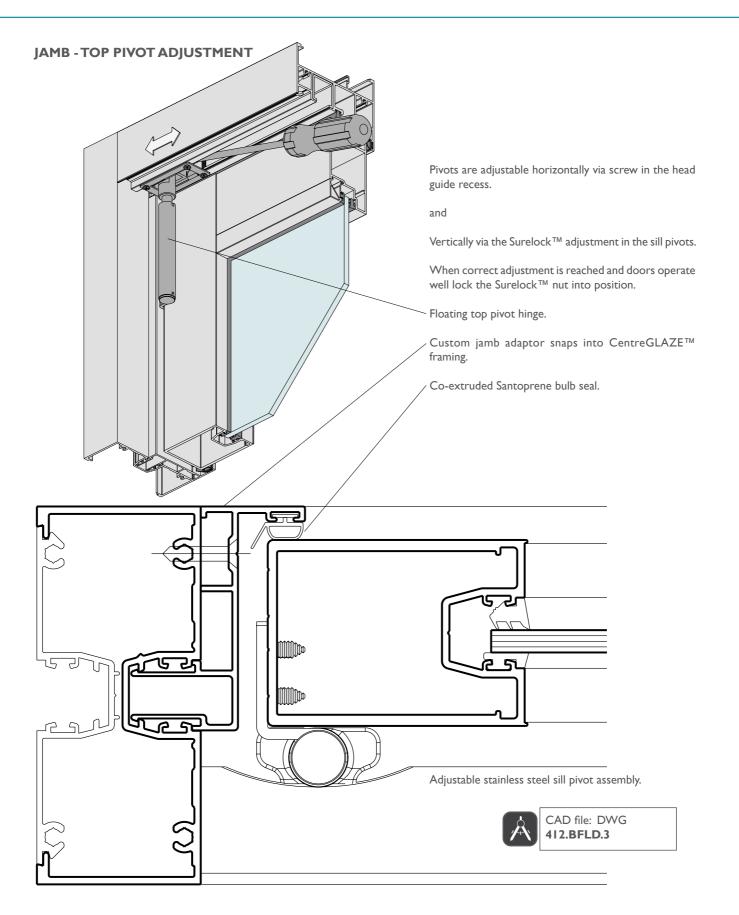
Custom glass filled nylon keeper.

See the ANDO[™] lock on our web site: www.**elevatealuminium.com.au**





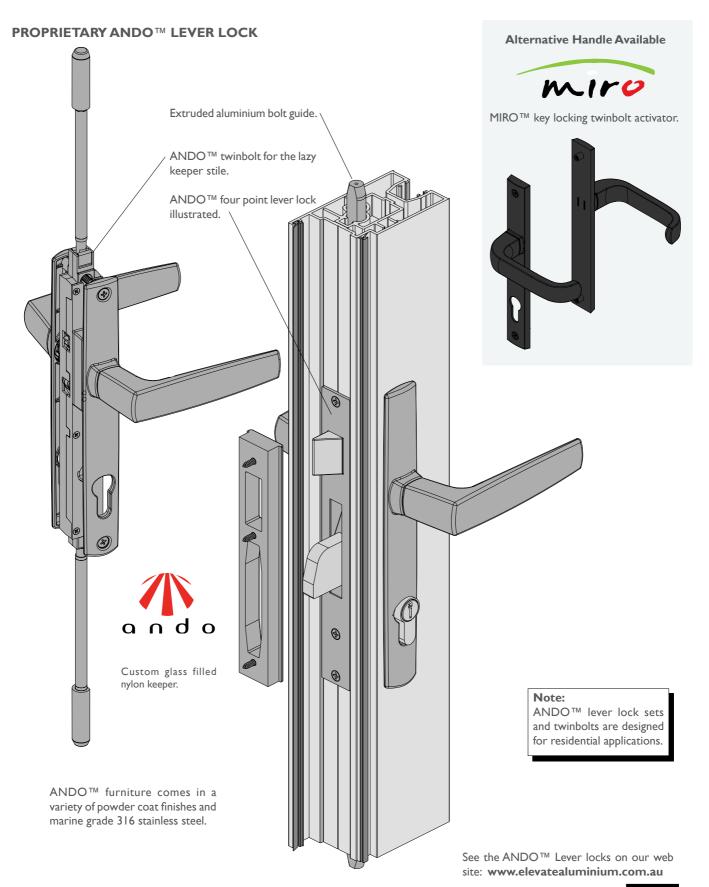
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FLUSH BOLT AND PROPRIETARY ANDO™ BI-FOLD ACTIVATOR



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Snib key

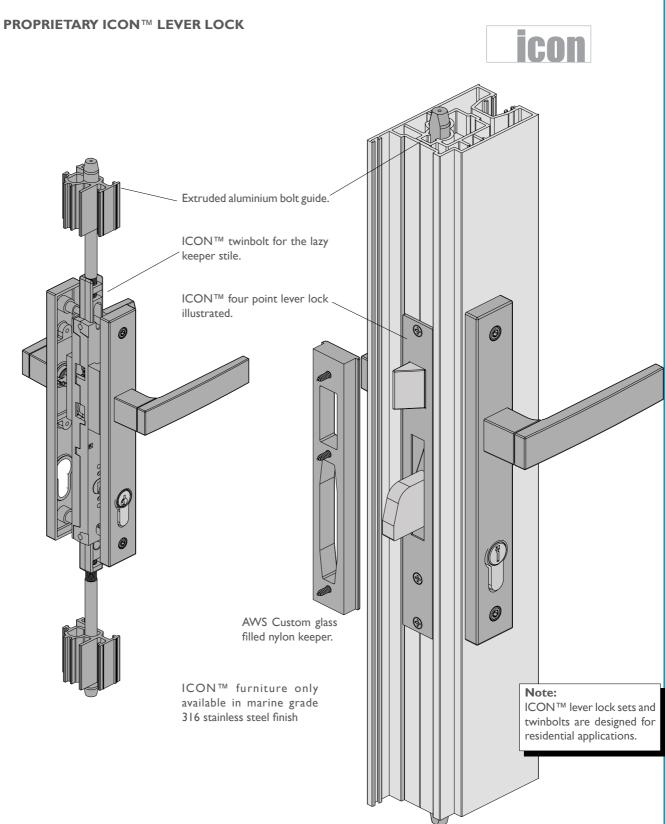
standard

See the ANDO $^{\rm TM}$ Bi-fold activators open and close on our web site: www.elevatealuminium.com.au



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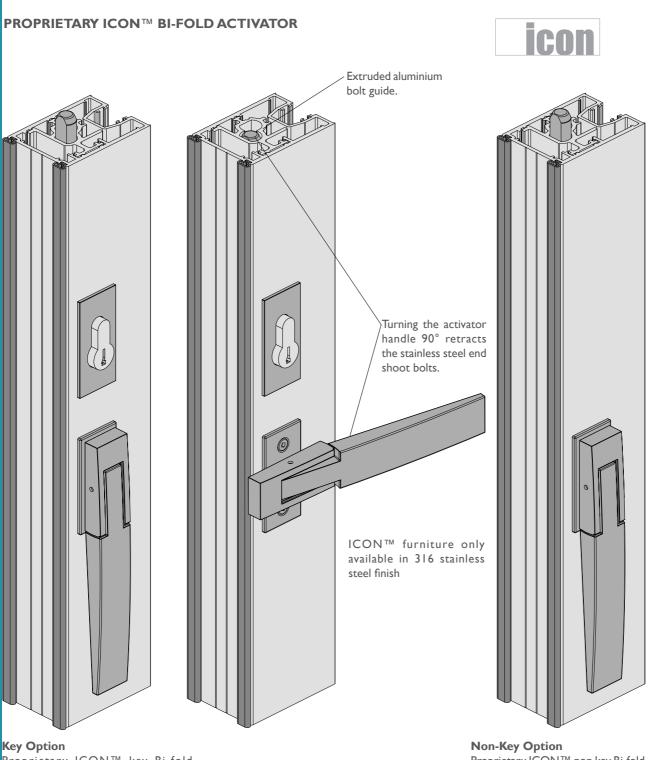
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See the ICON[™] Lever locks open and close on our web site: www.elevatealuminium.com.au



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Proprietary ICON™ key Bi-fold activator.

web site: www.elevatealuminium.com.au

See the ICON™ Bi-fold activators open and close on our

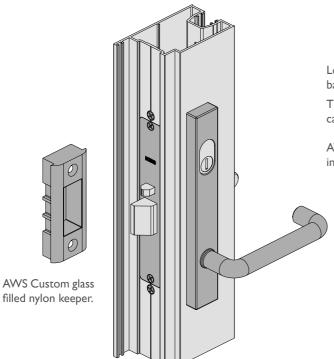
Proprietary ICON[™] non key Bi-fold activator also available.

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LOCKWOOD 3580 LOCK



Lockwood Series 3580 short backset cylinder mortice lock- 30mm backset, with Lockwood Series 4800 or 5800 furniture.

There are numerous lock and furniture options refer Lockwood catalogue and/or web site (www.lockwoodsecurity.com).

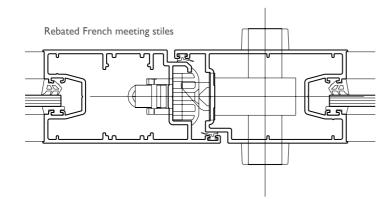
AWS Series 50 door French stile illustrated. This lock can also be fitted into Series 52 fully beaded French stile.

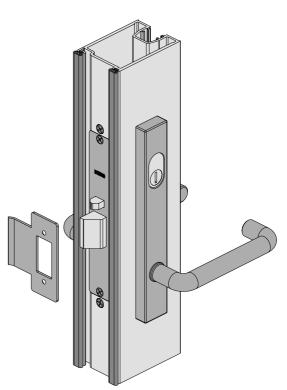
Lockwood Series 3580 short backset cylinder mortice lock- 30mm backset can be fitted into Series 50 Bi-fold stile as shown right.

On Series 52 use 25.40mm backset, with Lockwood Series 4800 or 5800 furniture.

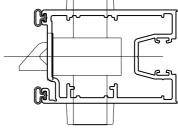
There are numerous lock and furniture options refer Lockwood catalogue and/or web site (www.lockwoodsecurity.com).

Jamb stile uses the standard stainless steel keeper that comes with the lock.





Bi-fold lock stile

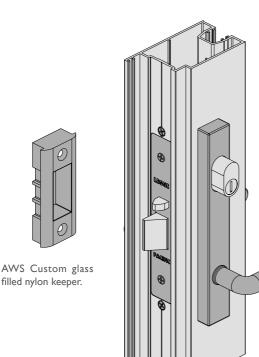




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LEGGE 995MF LOCK

filled nylon keeper.



Legge Pacific 995MF multi function narrow stile mortice lock - 30mm backset, with extended cylinders and with Dalco narrow style Series 5300 or 5400 furniture.

There are numerous furniture options refer Dalco Narrow Style Furniture catalogue and/or web site (www.ingersollrand.com.au).

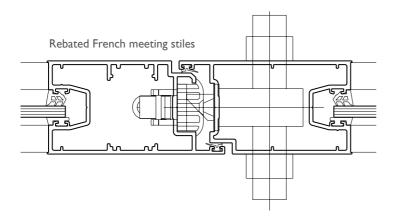
AWS Series 50 door French stile illustrated. This lock can also be fitted into Series 52 fully beaded French stile.

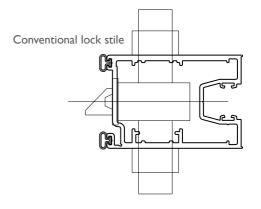
Legge Pacific 995MF multi function narrow stile mortice lock - 30mm backset can be fitted into Series 50 Bi-fold stile as shown right, with extended cylinders and with Dalco narrow style Series 5300 or 5400 furniture.

There are numerous furniture options refer Dalco Narrow Style Furniture catalogue and/or web site (www.irarchitecturalhardware.com.au).

Series 52 doors are not suitable with Legge 995MF lock as we can only fit the 23mm backset into the Bi-fold stile and 23mm is not enough on Bi-fold doors.

Jamb stile uses the standard stainless steel keeper that comes with the lock.





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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 412 Bi-fold door. The screen can be fitted to any of the Bi-fold door configurations up to 8811mm wide (with Standard weave mesh).

The S4 screen frame can be coloured to match the 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.

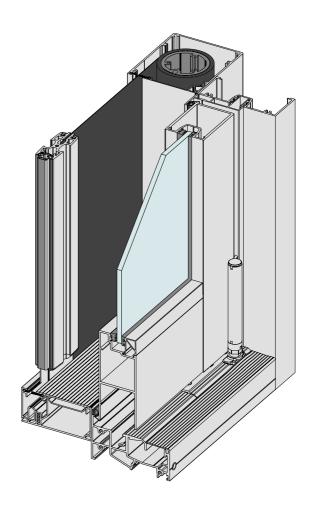
A shock absorption system allows visitors taken in by the screen's unobtrusiveness and near invisibility to walk away with little more than a surprise.

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 blockout 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 461 1mm 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.

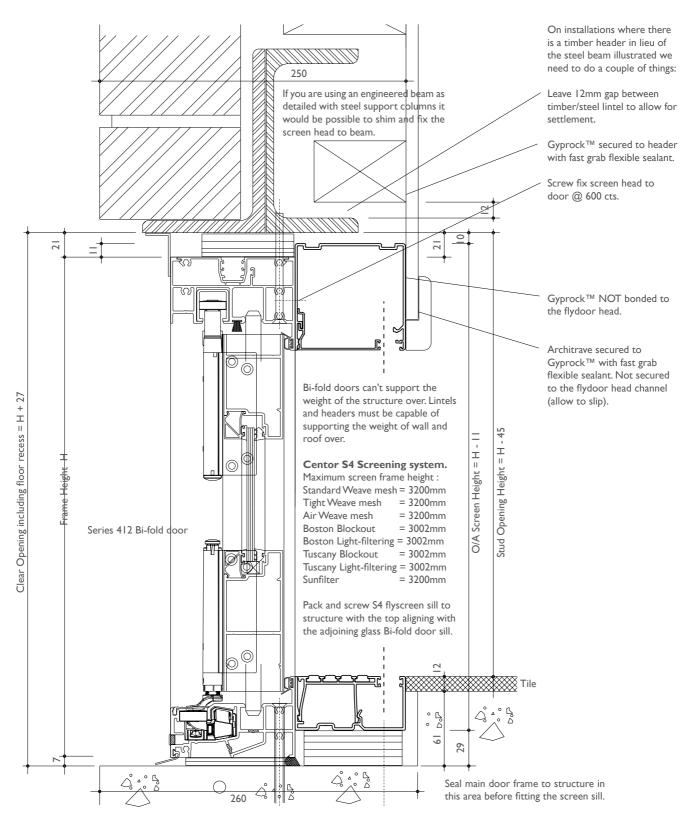
A vacuum cleaner fitted with a nozzle is effective. The S4 has an "easy fit" sill cover to facilitate simple cleaning and maintenance by the homeowner.

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



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TYPICAL VERTICAL CROSS SECTION - Centor[™] S4 ROLLER SCREEN - NO SUB-SILL



ARCHITECTURAL SERIES

Recessed Sill Detail

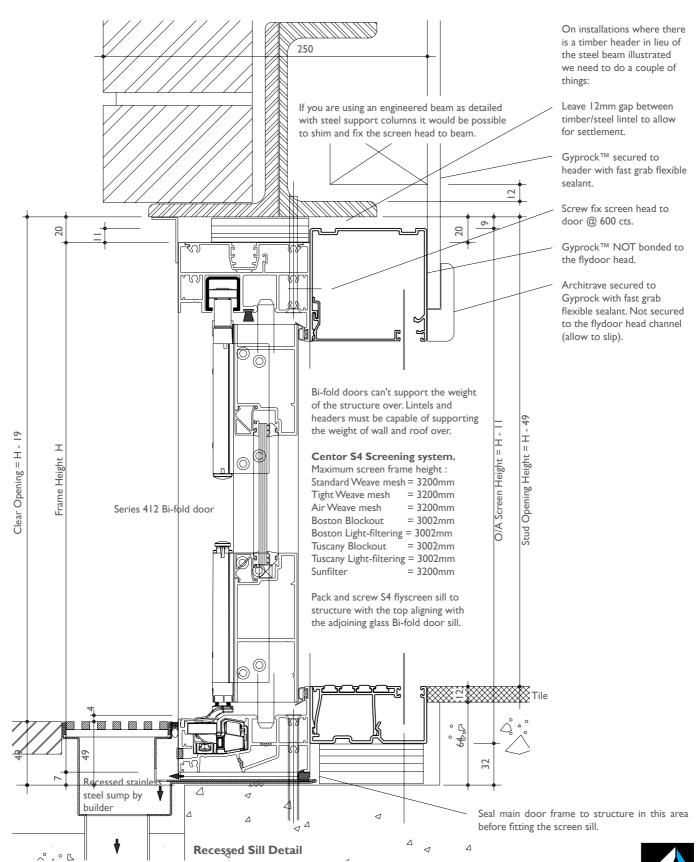


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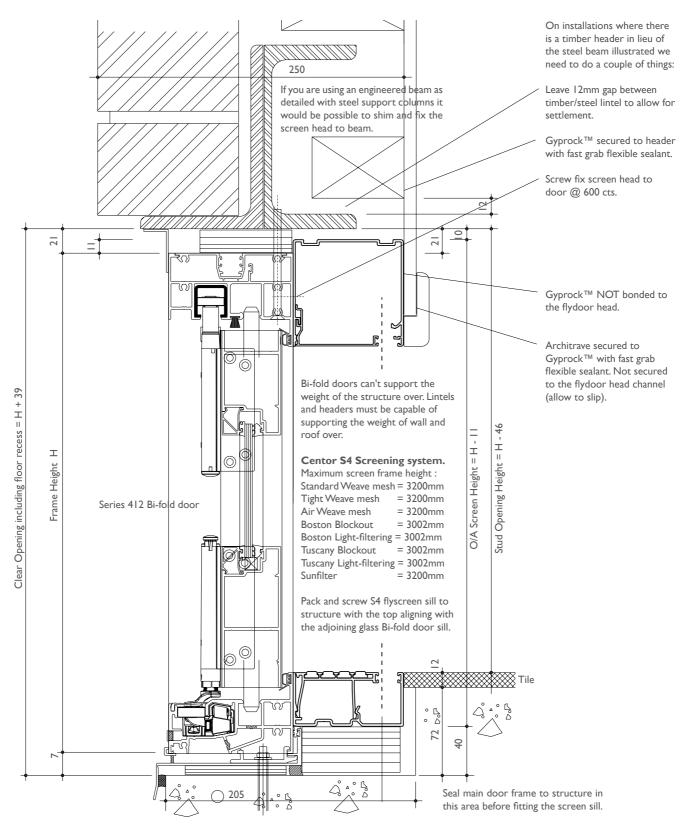
ELEVATE ALUMINIUM SYSTEMS PAGE | 2.181

TYPICAL VERTICAL CROSS SECTION - Centor™ S4 SCREEN - NO SUB-SILL



DATE: AUG 20 REPLACES: MAY 13 SCALE: NOT TO SCALE





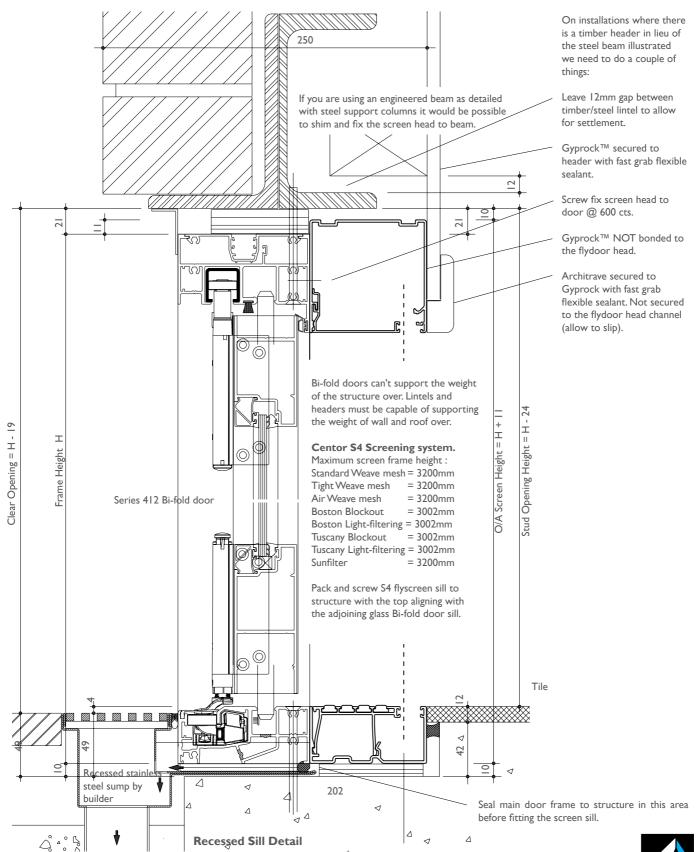
Recessed Sill Detail

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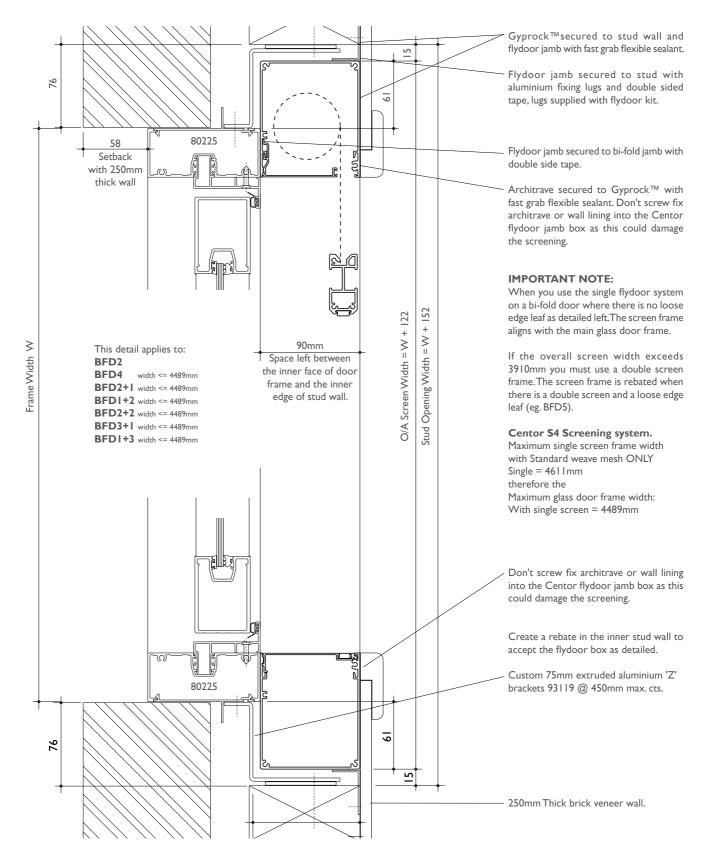
TYPICAL VERTICAL CROSS SECTION - Centor™ S4 SCREEN - FLAT SILL



ELEVATE PAGE | 2.183

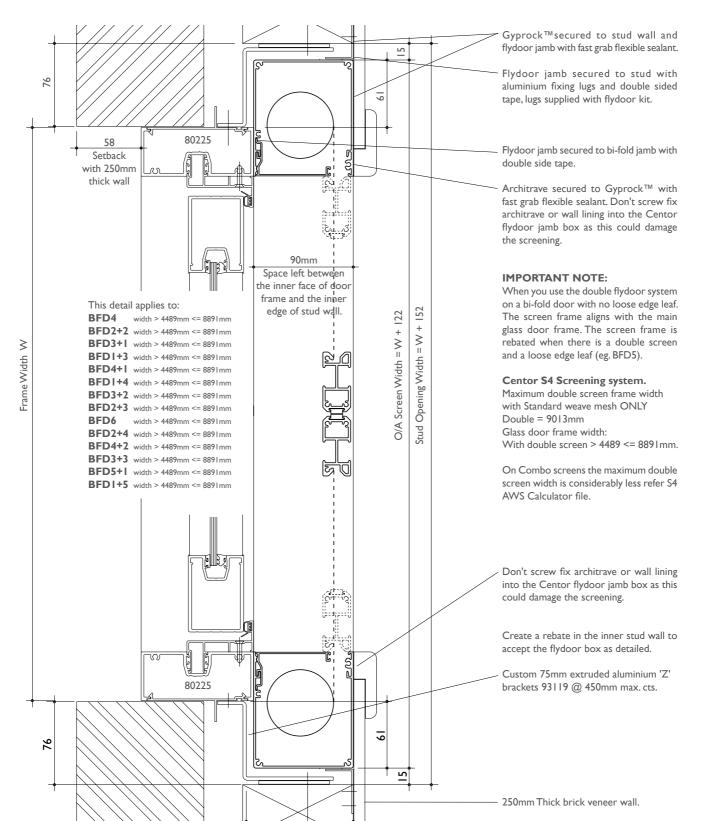
DATE: AUG 20 REPLACES: MAY 13 SCALE: NOT TO SCALE

TYPICAL HORIZONTAL CROSS SECTION - SINGLE Centor™ S4 SCREEN FLUSH FINISH



Australian registered design.

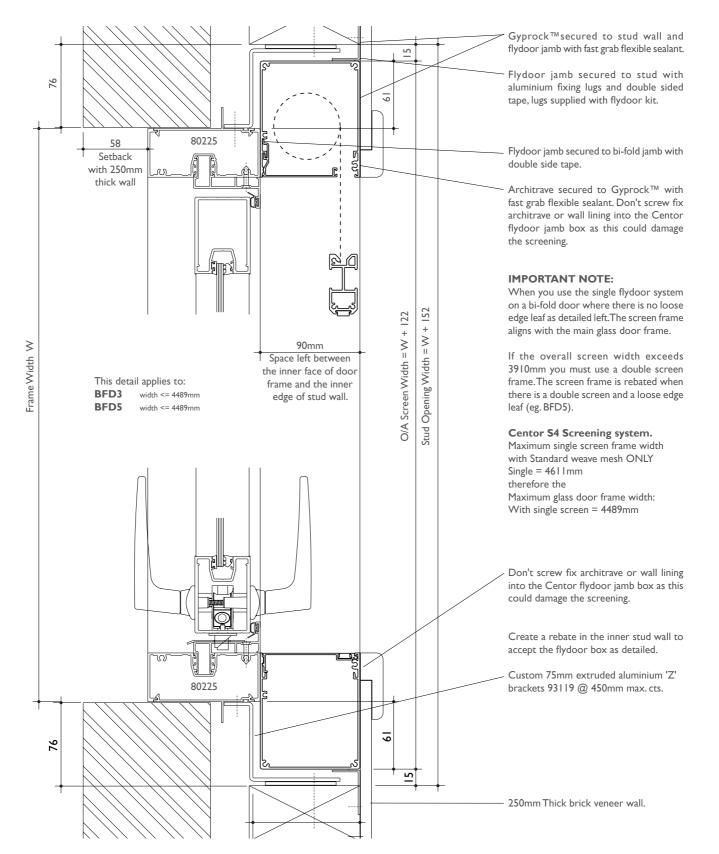
DATE: AUG 20 REPLACES: MAY 13 SCALE: NOT TO SCALE



TYPICAL HORIZONTAL CROSS SECTION - DOUBLE Centor™ S4 SCREEN FLUSH FINISH

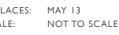
DATE: AUG 20 REPLACES: MAY 13 SCALE: NOT TO SCALE

TYPICAL HORIZONTAL CROSS SECTION - SINGLE Centor™ S4 SCREEN FLUSH FINISH

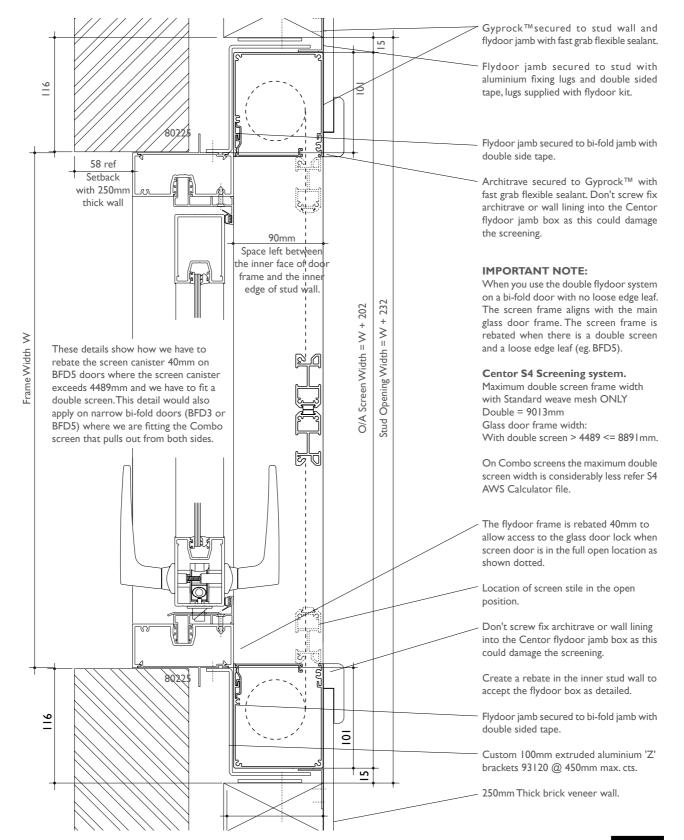


Australian registered design.

AUG 20 DATE MAY 13 REPLACES: SCALE:

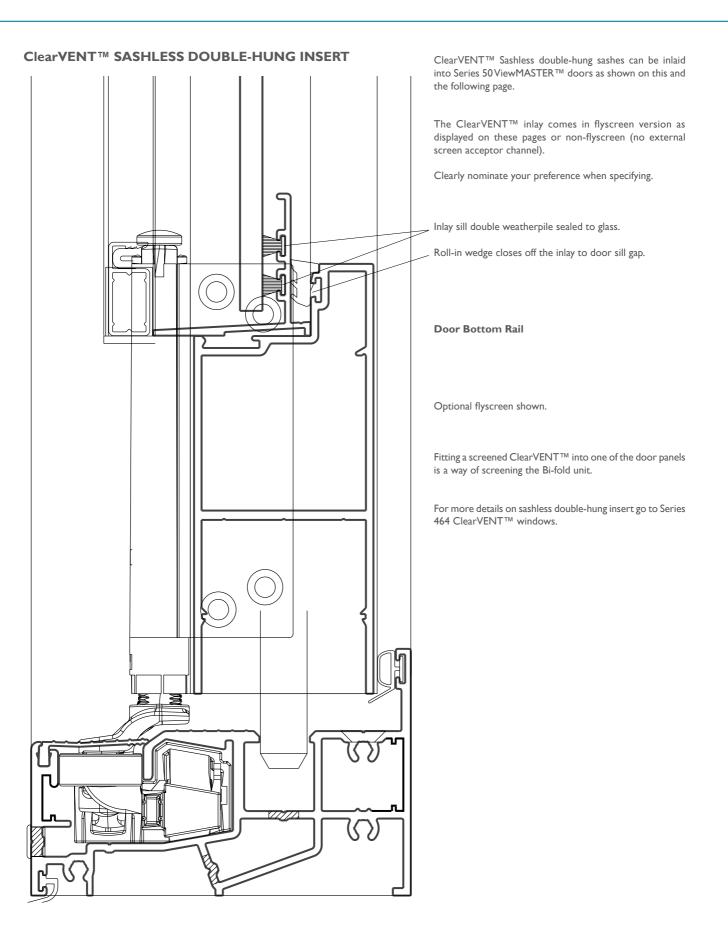


TYPICAL HORIZONTAL CROSS SECTION - DOUBLE Centor™ S4 SCREEN FLUSH FINISH



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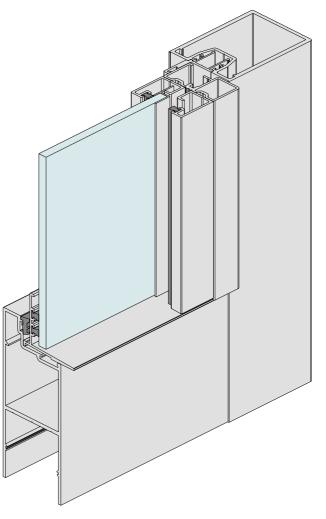
ClearVENT™ SASHLESS DOUBLE-HUNG INSERT

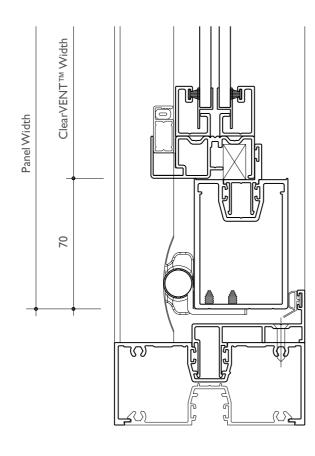
ClearVENT[™] insert nests into Series 50 door panel with or without flyscreen. The isometric detail right shows the non-flyscreen jamb adaptor. Where the plan view below shows the flyscreen adaptor.

Refer Series 464 Architectural Commercial window for full details on ClearVENT[™] options and production information.

Recommend

When $\mathsf{ClearVENT}^{\mathsf{TM}}$ inserts are fitted into door panels we recommend that you fit a midrail with fixed lowlight to brace the door panel.







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LouvreMASTER™ SUN CONTROL SHUTTERS

LouvreMASTER[™] sun control shutters (Series 417) can be fitted into a large variety of AWS products:

- Series 411 ViewMASTER[™] Bi-fold doors and windows.
- Series 412 ViewMASTER™ Bi-fold doors and windows. .
- Series 410 FoldMASTER™ Bi-fold doors and windows.
- Series 52 Hinged or sliding doors.
- Series 400 awning and casement windows.



LouvreMASTER[™] adjustable aluminium shutter adaptors snap into Series 52 door panel. The isometric detail left shows the blades in the open

Refer Series 417 LouvreMASTER™ for full details on LouvreMASTER™ options and technical

