

Series 542
DStacker™ Sliding Door



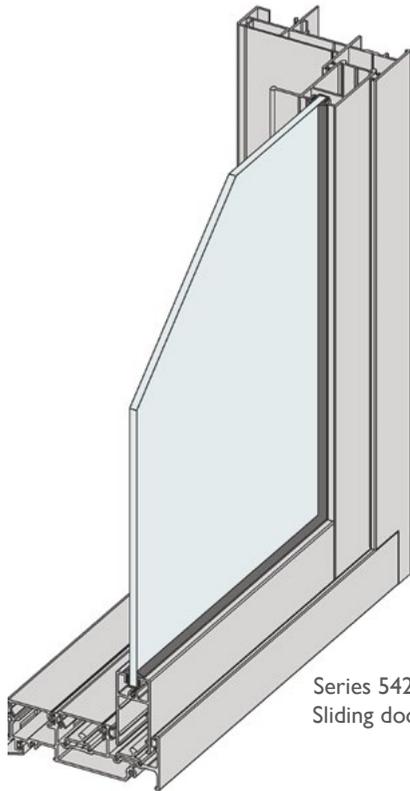
Photo courtesy of James Hardie Australia. Windows Supplied by Hanlon Windows.



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

KEY FEATURES / PERFORMANCE CHARACTERISTICS



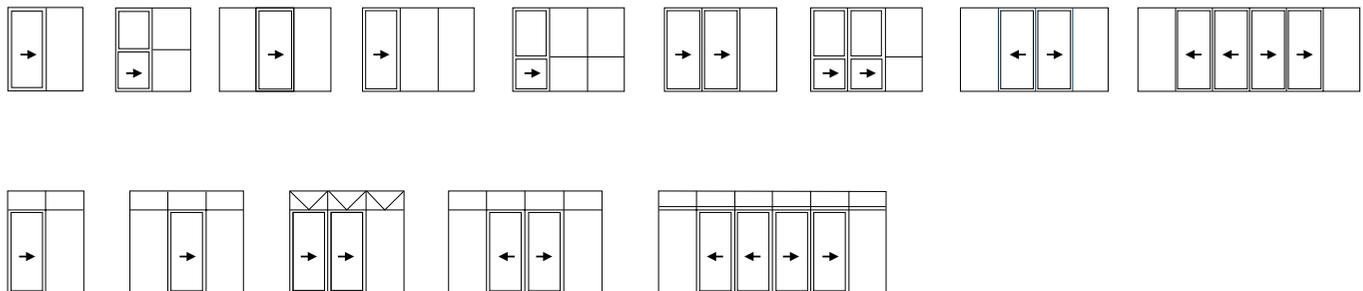
Series 542 DStacker™
Sliding door internal view

- High water resistance of 300Pa allows these doors to be installed into most residential projects.
- Can be fabricated as 'XXF', 'FXX', 'FXXXXF', 'XF', 'FX', 'FXF', 'XFF', 'FFX' and 'FXXF'.
- The accompanying optional stacking multi-panel external flydoor system is snapped to the main frame. This applied flydoor system may not be required on high rise apartments.
- The 109mm wide perimeter frame will couple to a large variety of Vantage adaptors.
- Flat external fillers creates a clean closed off frame appearance. On the sill the infills guide water away from the door panels and improve water resistance.
- Unused internal and external frame recesses are closed with snap-in flat fillers for improved appearance.
- Heavy door panels can be fitted with double bogey wheels for smooth long term operation. Running rails can be replaced in the future if necessary.
- Can be fitted into commercial type sub-sill for higher water resistance.
- Flydoors are fitted with snap-on interlocks again for improved appearance and labour saving.

Maximum Panel Height*	2650mm
Maximum Panel Width*	1350mm
Maximum Glass Thickness	≤ 20mm

* 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 this sliding door. During testing the door was fitted with 'Qlon' seals vertically and weatherpile horizontally

Glass Description		
4mm Toughened glass	27dB(A)	RW28
6.38mm Laminated glass	32dB(A)	RW32
10.38mm Laminated glass	34dB(A)	RW35
20mm Insulating glass unit	33dB(A)	RW33



WERS RATINGS

Single Glazed

Glass Description	COOLING	HEATING	Uw	SHGCw	Tvw	Inf
5mm Grey	31%	10%	6.2	0.53	0.43	1.65
5mm EverGreen	34%	8%	6.2	0.49	0.62	1.65
6.38mm Laminate	18%	18%	6.1	0.68	0.76	1.65
6.38mm Solect	36%	38%	4.3	0.58	0.69	1.65
6.38mm Comfort Plus	47%	30%	4.3	0.44	0.50	1.65

Double Glazed

Glass Description	COOLING	HEATING	Uw	SHGCw	Tvw	Inf
4Clr/10Gap/4Clr	36%	42%	4.0	0.60	0.64	1.65
4Az/10Gap/4EA	59%	35%	3.4	0.33	0.49	1.65
4Clr/10Ar/4EA	43%	50%	3.1	0.57	0.59	1.65
4Clr/10Gap/4EA	42%	47%	3.4	0.56	0.59	1.65
5Clr/8Gap/5Clr	37%	40%	4.1	0.59	0.63	1.65
5EG/8Ar/5EA	59%	36%	3.3	0.34	0.48	1.65



2D & 3D CAD FILES AVAILABLE

GO TO: www.specifyaws.com.au > Series 542

CAD file: *Series 542 SLD 2D Drawings (DWG & PDF)*



MORE INFORMATION

For the latest updates regarding this product visit our website

www.vantagewindows.com.au

HOW TO SPECIFY

SYSTEM NAME

Vantage Series 542 DStacker™ Sliding Door

FINISH

Powder Coat

Anodised

COLOUR

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

GLASS

Specify thickness ≤ 20mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)

HARDWARE

Refer to hardware selection guide for compatible options



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 sliding doors are the same. If you want your windows 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.

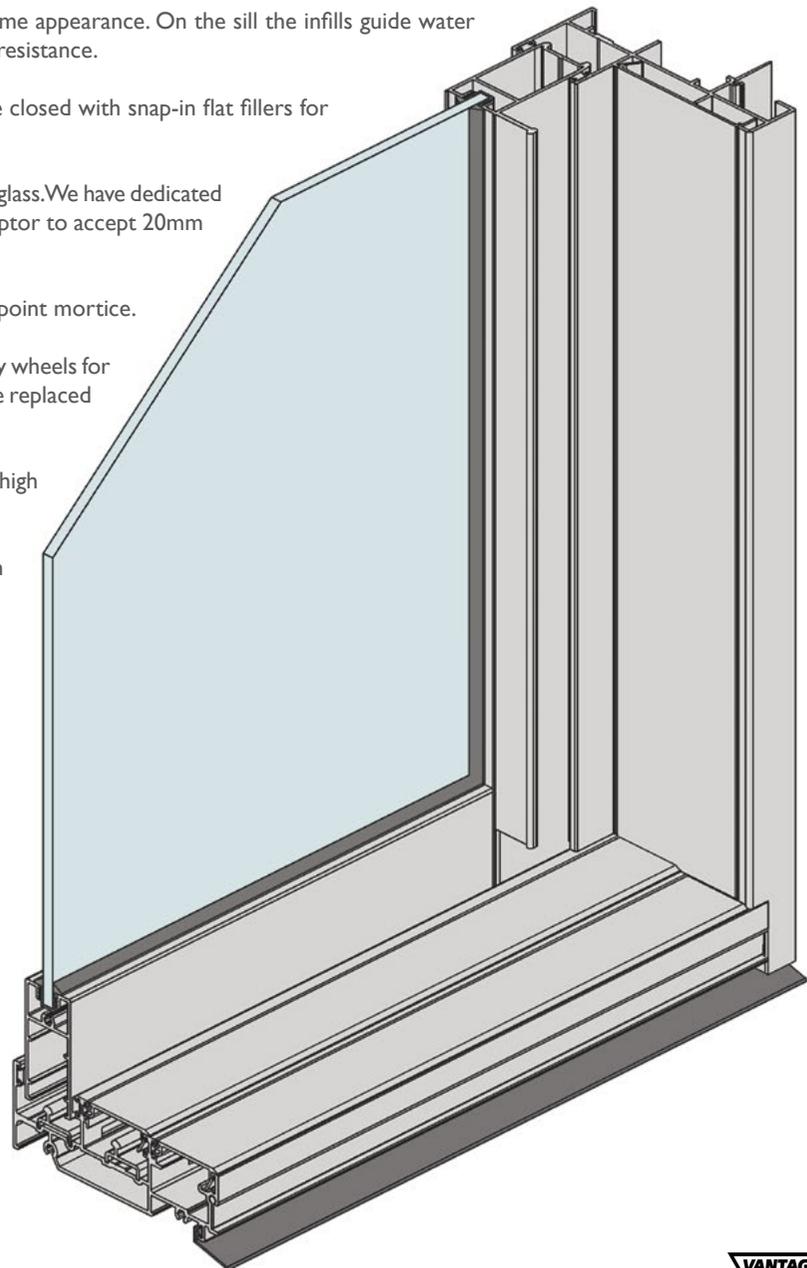
FEATURE	Series 542	Opposition
Rounded corner on the frame and sash members wherever possible Modern paint finishes don't like sharp corners.	YES	
Coastal installations can be upgraded to 300Pa (high) water rating	YES	
Direction of slide can easily be changed without major surgery If the home owner should change their mind on the direction of slide after the doors are installed it's possible to re-hand the door.	YES	
Heavy duty tubular sill strong enough to carry wheel chairs and heavy door panels	YES	
Heavy door panels including double glazed can be fitted with double bogey wheels	YES	
Flydoors run on the outside The only purpose for a screen door is to keep insects on the outside, if the screen door is fitted inside the glass doors the insects will be in with you when you close the glass door. Likewise if barrier type screen doors are on the inside you will have to open this barrier door to close the main glass door when you want to keep someone out, this completely defeats the purpose of having a barrier flydoor.	YES	
Interlock on trailing edge of barrier flydoors When these barrier flydoors are closed and locked they should also be interlocked at the meeting stile to reduce the chance of them being pulled off the track.	YES	
Sliding door can be coupled to any Vantage window without visible rivets	YES	
The sill drainage holes are covered Many sliding doors leak a lot of air through the sill area either through open drain holes or poorly sealed doors. A well sealed door will reduce heating and cooling costs.	YES	
Protected running tracks A sliding door will only operate smoothly if the running rails are protected. If these rails get damaged by shoe scuffing the nylon wheel will deteriorate quickly then cause major damage to the frame. This is the most common cause of sliding door failure and if left unattended usually results in the need for a completely new door unit to be installed. Always keep the sill clean and protect the running rails.	YES	
Flat Sill Design	YES	
Optional Tall bottom rail For added impact we can fix extra tall 92mm bottom rails in lieu of standard 52mm rails.	YES	

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DESIGN FEATURES

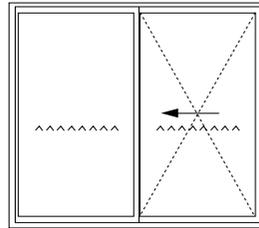
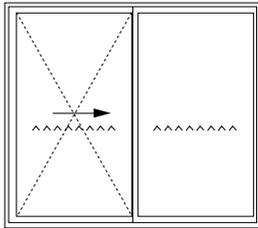
1. High water resistance of 300Pa allows these doors to be installed into most residential projects.
2. Can be fabricated as 'XXF', 'FXX', 'FXXXXF', 'XF', 'FX', 'FXF', 'XFF', 'FFX' and 'FXXF'.
3. The accompanying optional stacking multi panel external flydoor system is snapped to the main frame. This applied flydoor system may not be required on high rise apartments.
4. The 109mm wide perimeter frame will couple to a large variety of Vantage adaptors :
 - 180° Door to window vertical coupler.
 - 135° Door to window bay coupler.
 - 90° Door to window bay coupler.
 - Door highlight couplers.Refer to installation section for more information.
5. Flat external fillers creates a clean closed off frame appearance. On the sill the infills guide water away from the door panels and improves water resistance.
6. Unused internal and external frame recesses are closed with snap-in flat fillers for improved appearance.
7. Door panels can be glazed with thick or insulating glass. We have dedicated stiles for glass up to 16mm thick and an inlay adaptor to accept 20mm Insulating glass units.
8. We offer a large variety of locks including multi-point mortice.
9. Heavy door panels can be fitted with double bogey wheels for smooth long term operation. Running rails can be replaced in the future if necessary.
10. Can be fitted into commercial type sub-sill for high water resistance.
11. Flydoors are fitted with snap-on interlocks again for improved appearance.
12. WERS rated product
13. For higher performance or very large size doors check out MAGNUM™ Series 618 in the Designer Series section of this manual or SlideMASTER™ Series 702 or 704, refer AWS Commercial. specifier guide.
14. Optional tall bottom rail available



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STANDARD CONFIGURATIONS

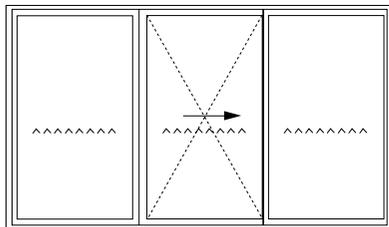


Type 'XF' & 'FX'

Single track door

Maximum height = 2700mm

Maximum width = 2710mm

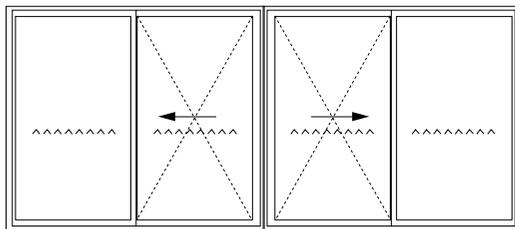


Type 'FXF', 'FFX' & 'XFF'

Single track door

Maximum height = 2700mm

Maximum width = 4000mm

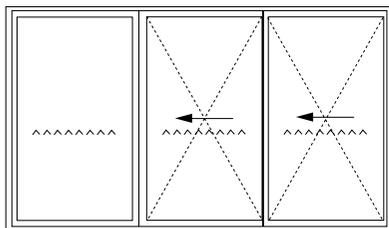


Type 'FXXX'

Single track door

Maximum height = 2700mm

Maximum width = 5300mm

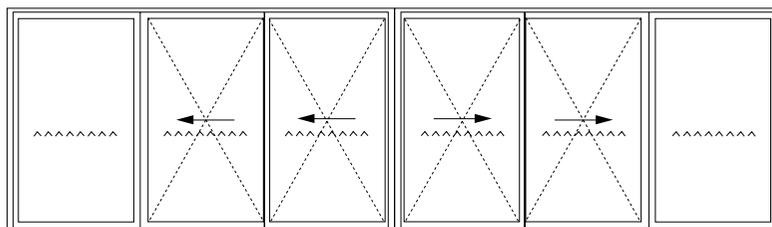


Type 'FXX' & 'XXF'

Dual track door

Maximum height = 2700mm

Maximum width = 4000mm



Type 'FXXXXF'

Dual track door

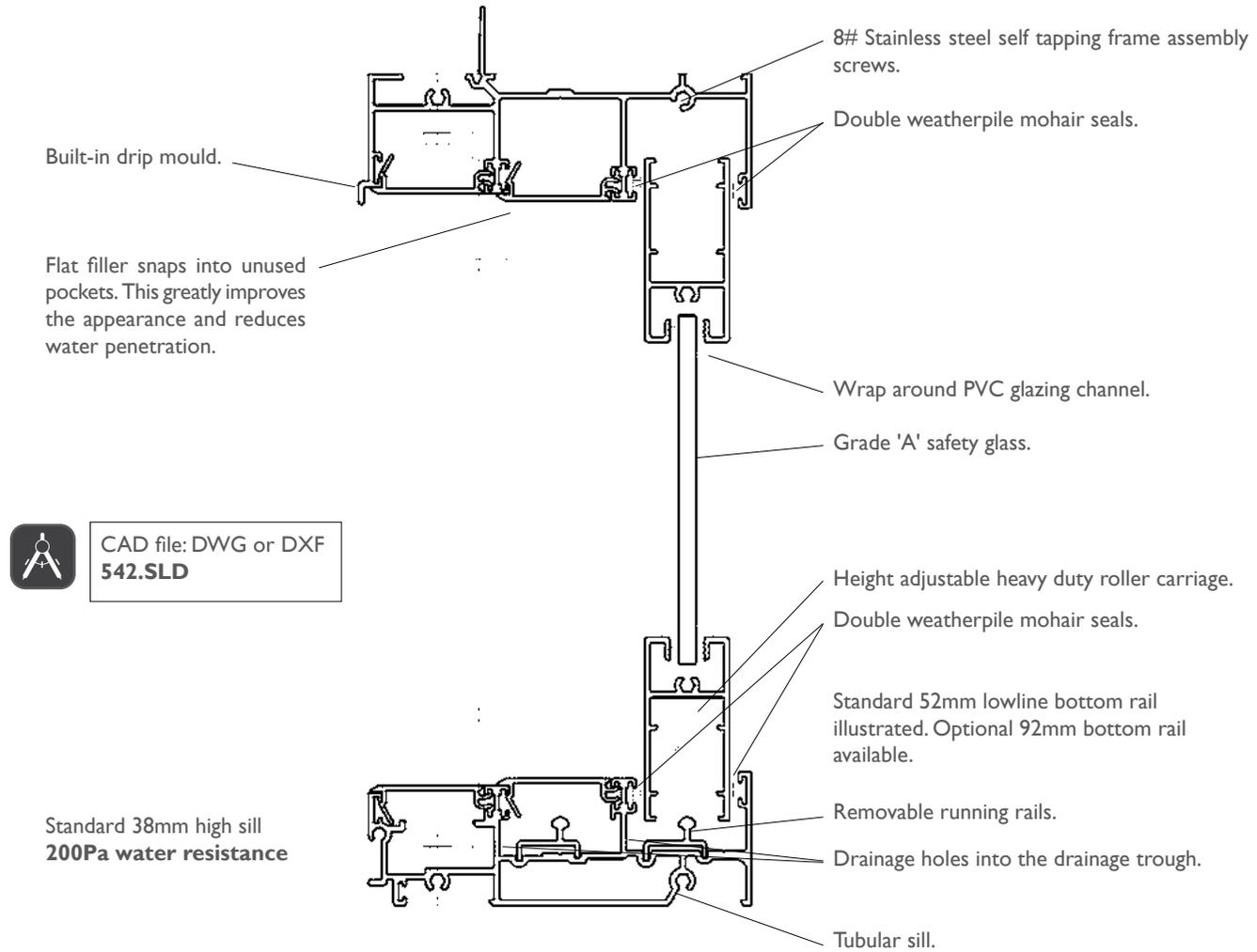
Maximum height = 2700mm

Maximum width = 6000mm

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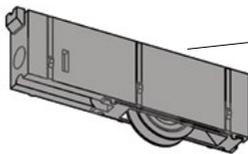
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VERTICAL CROSS SECTION

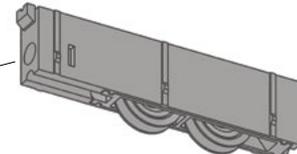


CAD file: DWG or DXF
542.SLD

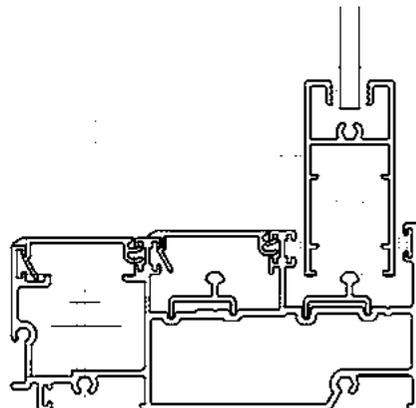
Standard 38mm high sill
200Pa water resistance



38mm dia. nylon, tyred ball bearing, height adjustable wheel carriage.
For heavier doors we fit double bogey wheel carriages.



Special 50mm high performance sill.
300Pa water resistance for doors <=2400mm high.
200Pa water resistance for doors >2400mm high.

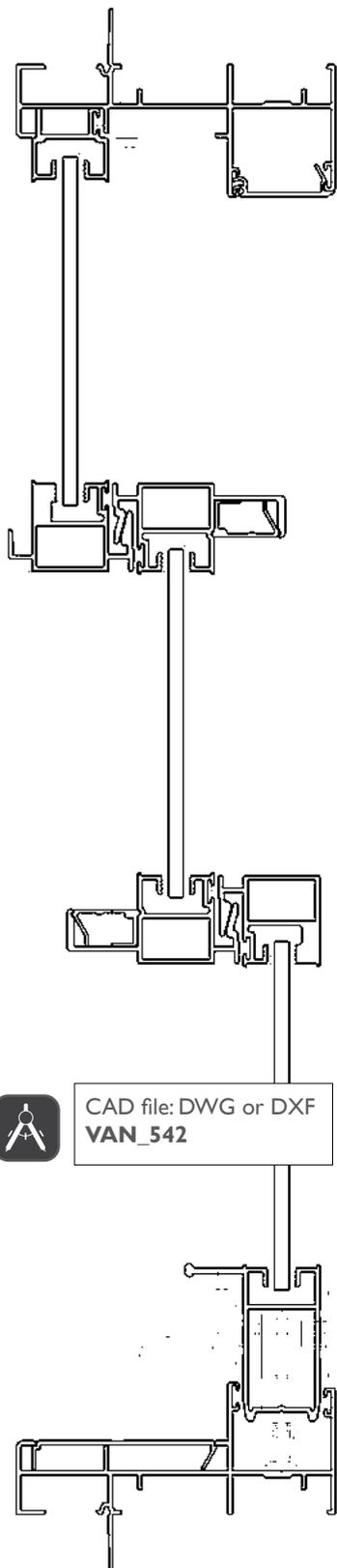


Recess the floor.
We always recommend that DStacker™ door sills are recessed into the floor slab.

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HORIZONTAL SECTION THROUGH 'FXX' MULTI PANEL DOOR



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VAN_542

Meeting Stile Strength

This table shows a range of serviceability ratings (I/150) that can be achieved:

type code	Height mm	Width mm	Meeting Stiles		
			Light	Medium	Heavy
FXX	2100	3200	577 Pa	886 Pa	1691 Pa
FXX	2100	3400	548 Pa	842 Pa	1608 Pa
FXX	2100	3600	524 Pa	805 Pa	1537 Pa
FXX	2100	3800	503 Pa	772 Pa	1475 Pa
FXX	2100	4000		744 Pa	1421 Pa

The door has been successfully tested to 300Pa water resistance. This makes the product suitable for most residential applications.

For ratings on other sizes and types contact your local Vantage fabricator.

Alternative locks :

ANDO™ surface mounted single point deadlock.

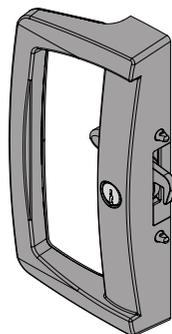
ANDO™ surface mounted two point deadlock.

ANDO™ locks come standard with Powdercoated 304 SS external pull handles.

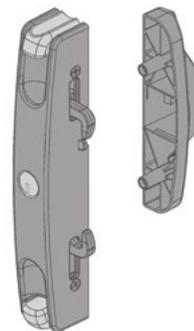
'Albany' mortice deadlocks two point deadlock.

Lock colours:

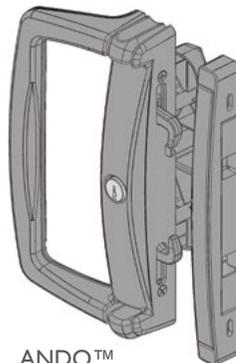
All of these locks come in a variety of standard powder coat finishes. Locks can also be supplied in a variety of metal finishes refer your local Vantage sales office or go to our web site.



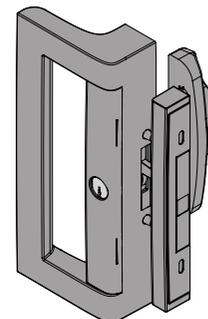
ANDO™
single point locking



ANDO™ two
point slimline locking



ANDO™
two point locking



MIRO™
single point locking

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'FXX' MULTI PANEL DOOR IN THE OPEN POSITION

Important Feature

Light and medium meeting stile combinations don't project inside past the frame line.

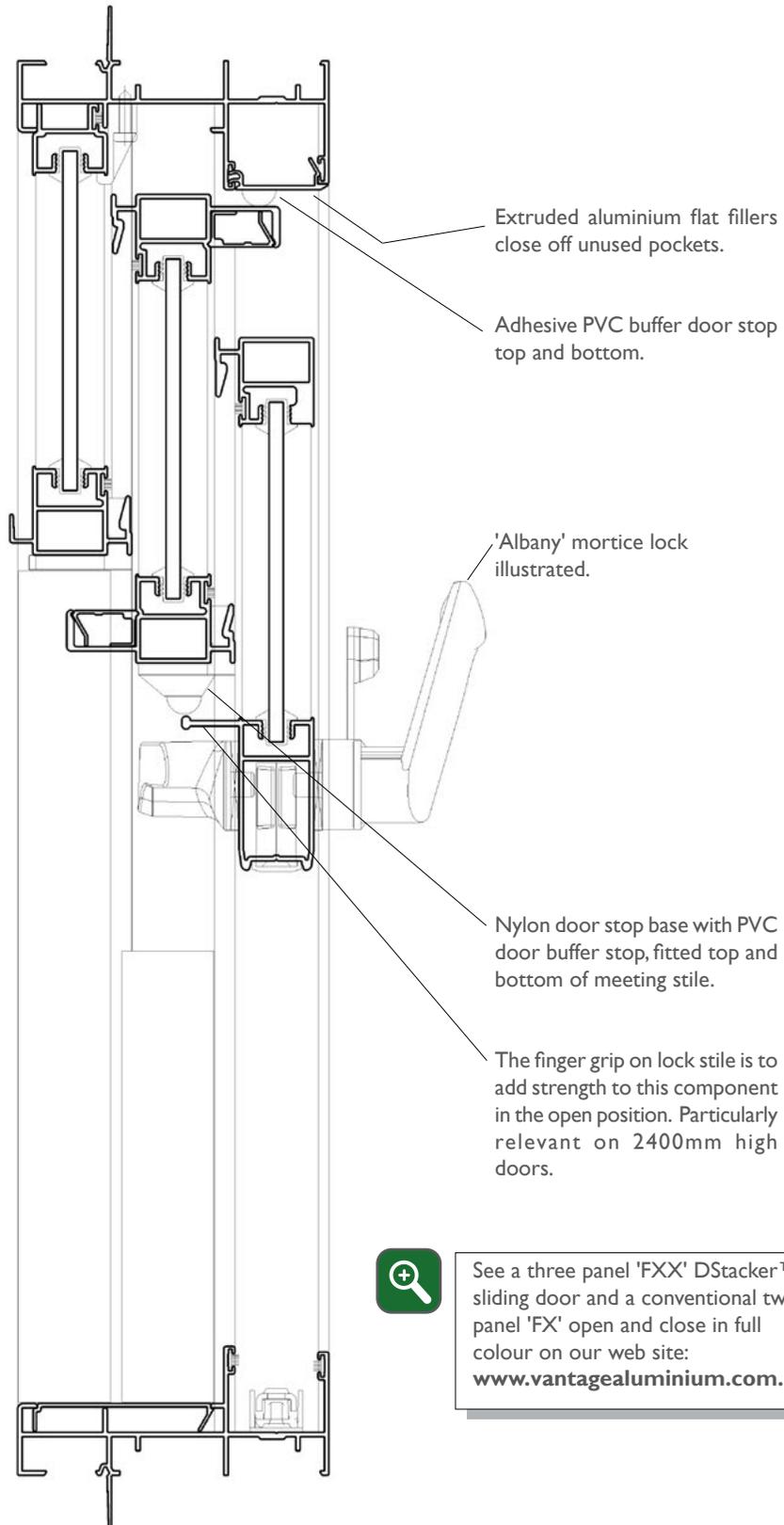


CAD file: DWG or PDF
542.SLD

18mm Gap to protect fingers as doors are opened.

Finger grip on lock stile clashes with top and bottom buffer stops.

Clear opening on 'FXX' door approx. 60% of O/A width

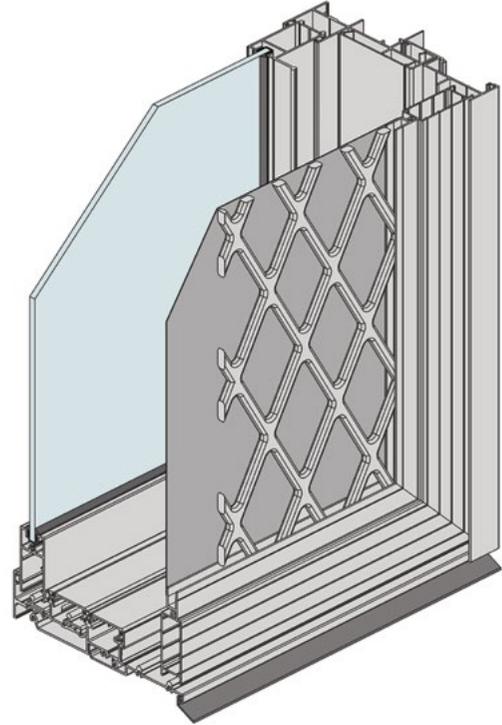
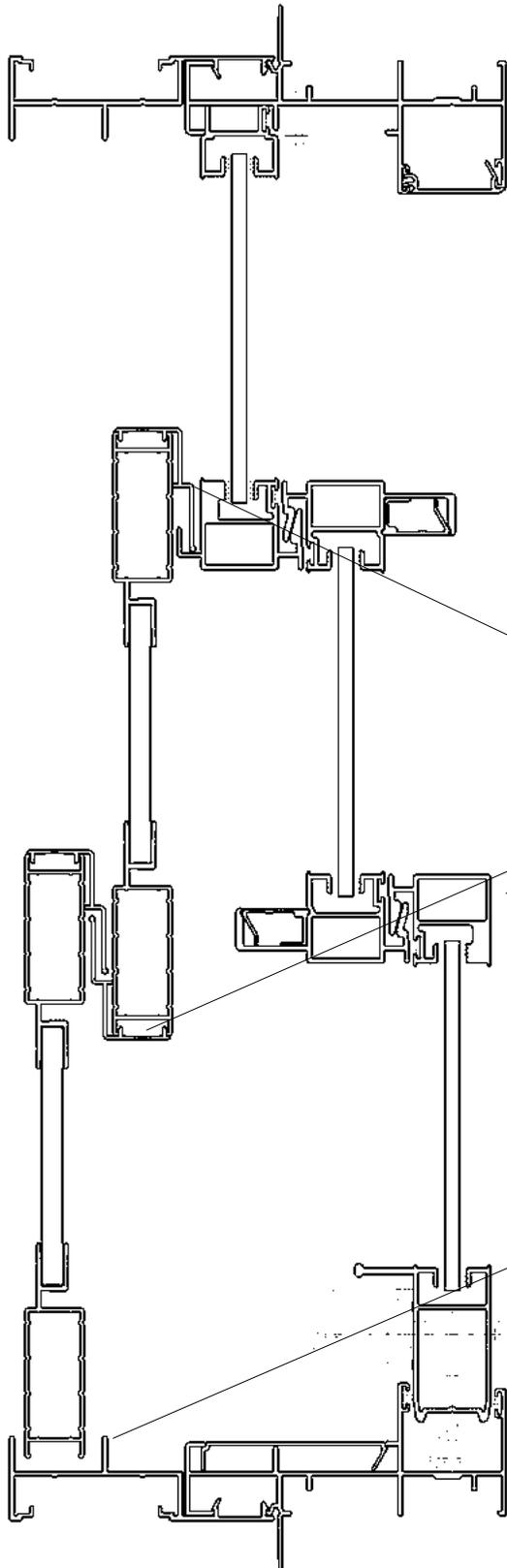


See a three panel 'FXX' DStacker™ sliding door and a conventional two panel 'FX' open and close in full colour on our web site:
www.vantagealuminium.com.au

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SNAP ON 'FXX' MULTI PANEL FLYDOOR



Vantage custom flydoors come with snap-on door interlocks. The fixed meeting stile on dead panel has built-in flydoor interlock.

Important Note:

If you plan to fit flydoors on units with the heavy meeting stile combination, fit the projecting stile to the inside as it will clash with the flydoor.

Vantage custom flydoor frame.

Important Note:

The snap-on flydoor frame can only be fitted to the main door frame before installation. If the flydoor frame is fitted after installation of the main frame we would use the retro-fit flydoor system as shown on following page.

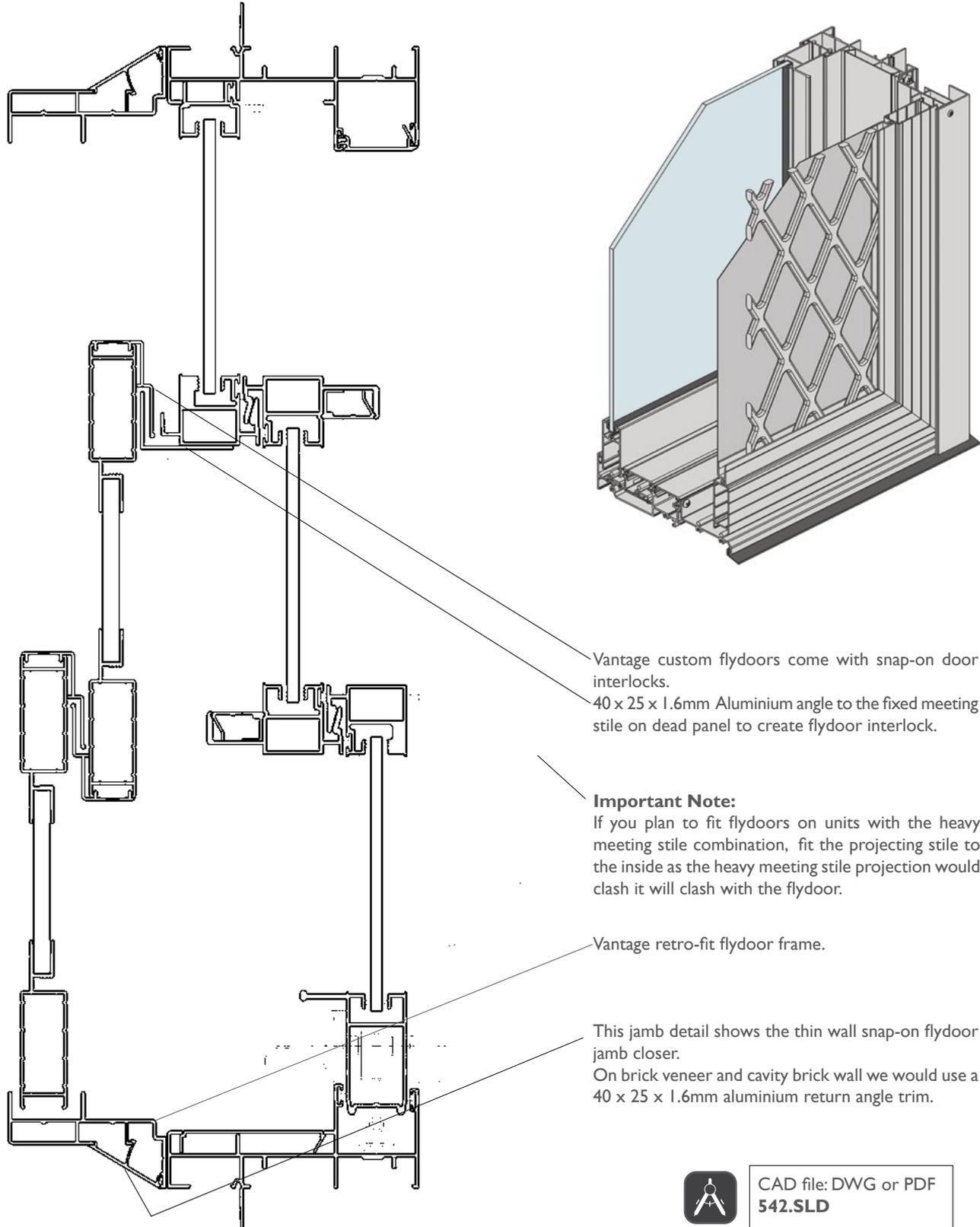


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542.SLD

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RETRO-FIT 'FXX' MULTI PANEL FLYDOOR



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CAD file: DWG or PDF
542.SLD



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SLIDING DOOR SILL FLASHING TRAY

This flashing tray is designed for first floor installation to ensure that the sill detail is waterproof and any moisture that should get between sill and flydoor adaptor is drained to the outside

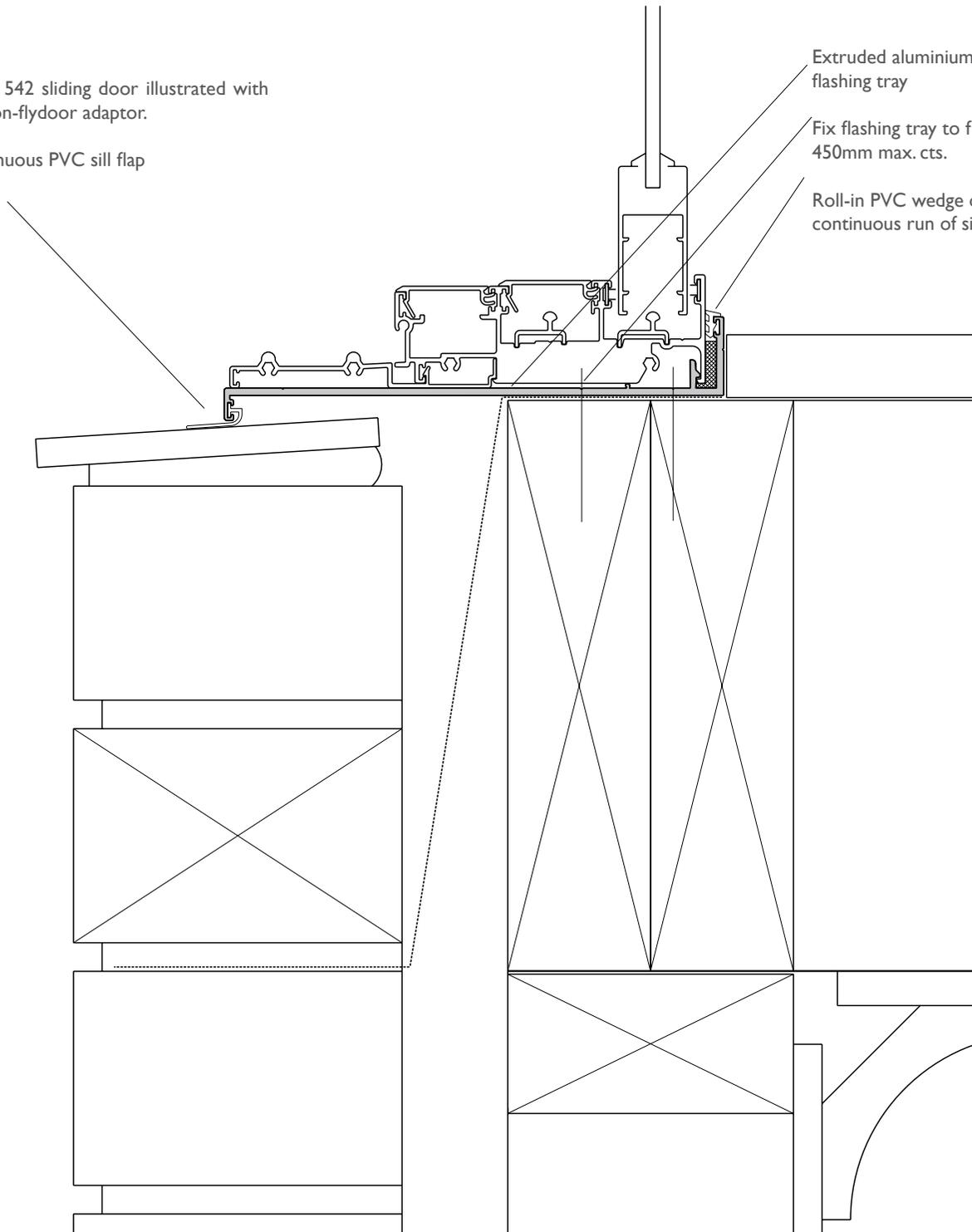
Series 542 sliding door illustrated with snap-on-flydoor adaptor.

Continuous PVC sill flap

Extruded aluminium sill flashing tray

Fix flashing tray to floor @ 450mm max. cts.

Roll-in PVC wedge over continuous run of silicone



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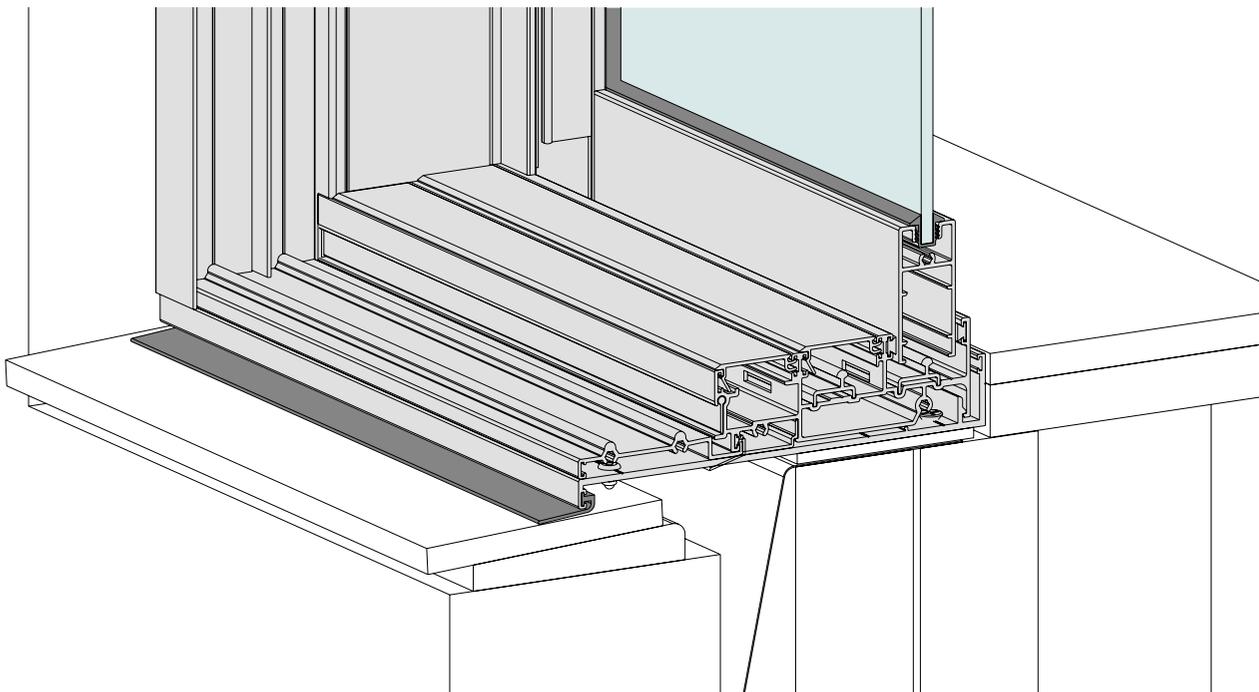
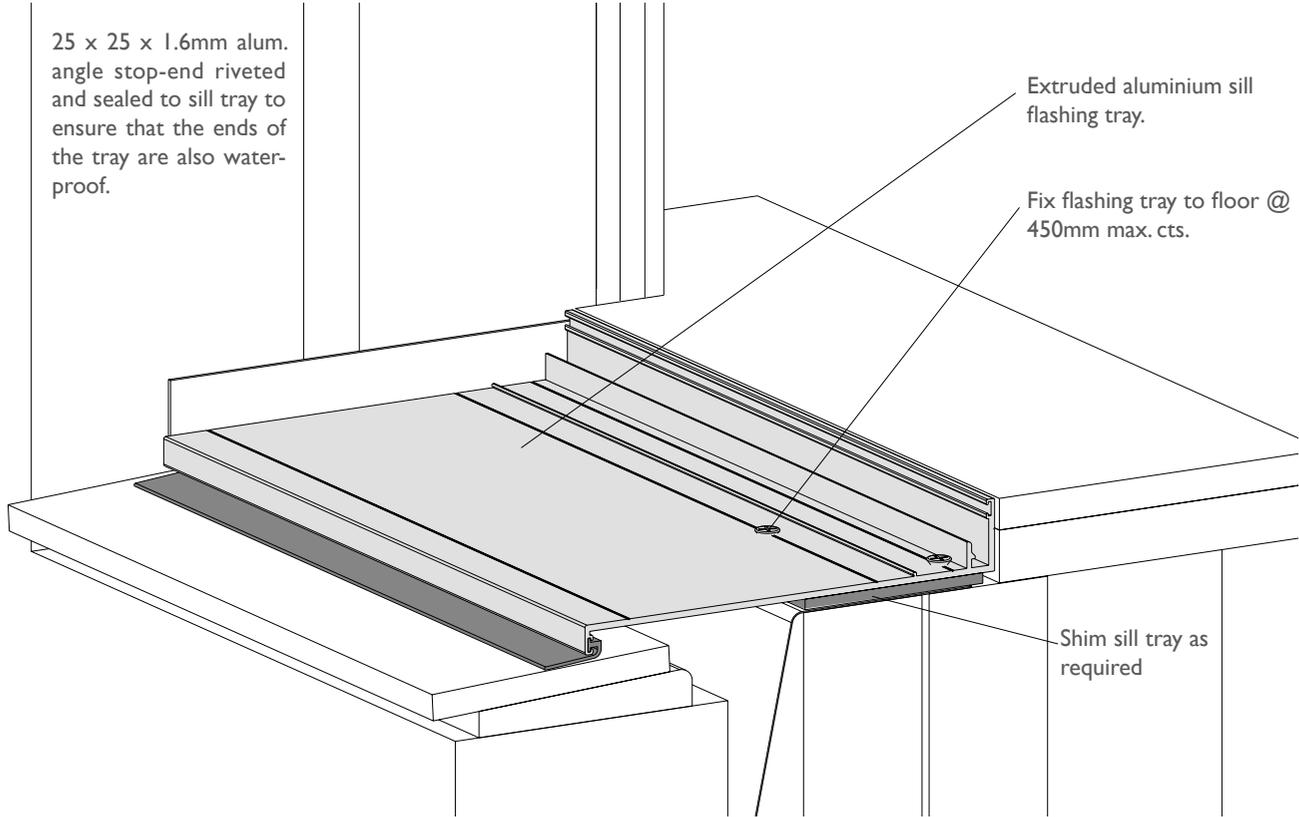
SLIDING DOOR SILL FLASHING TRAY

25 x 25 x 1.6mm alum. angle stop-end riveted and sealed to sill tray to ensure that the ends of the tray are also water-proof.

Extruded aluminium sill flashing tray.

Fix flashing tray to floor @ 450mm max. cts.

Shim sill tray as required



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ALTERNATIVE SUB-SILL INSTALLATION

Optional retro-fit stacking flydoor system shown dotted.

Note:

To ensure that the flydoors stay in place (in the frame), the underside of the flydoor sill should be continuously supported.

Standard 38mm high standard sill into sub-sill.

300Pa water resistance
for doors <=2400mm high.

On retro-fit flydoor sill, the location will vary depending on sill finish and location and splay in the external sill bricks/tiles.

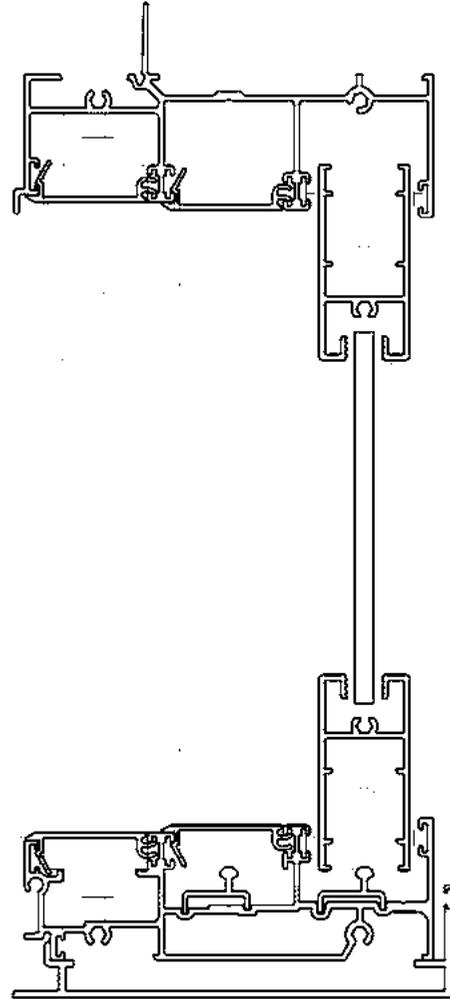
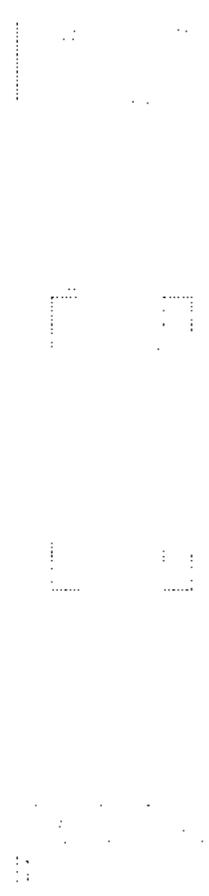
Flydoor height will need to be site checked.



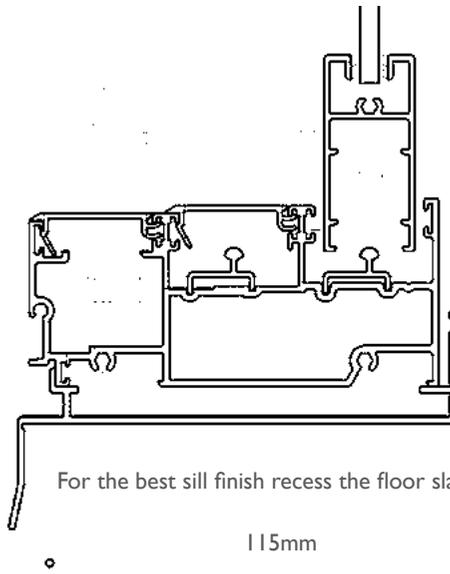
CAD file: DWG or PDF
542.SLD

Standard 50mm high performance sill into sub-sill

300Pa water resistance
for doors <=2700mm high.



— This detail shows how the sub-sill could be cut down to suit a flat sill detail.



For the best sill finish recess the floor slab.

40mm

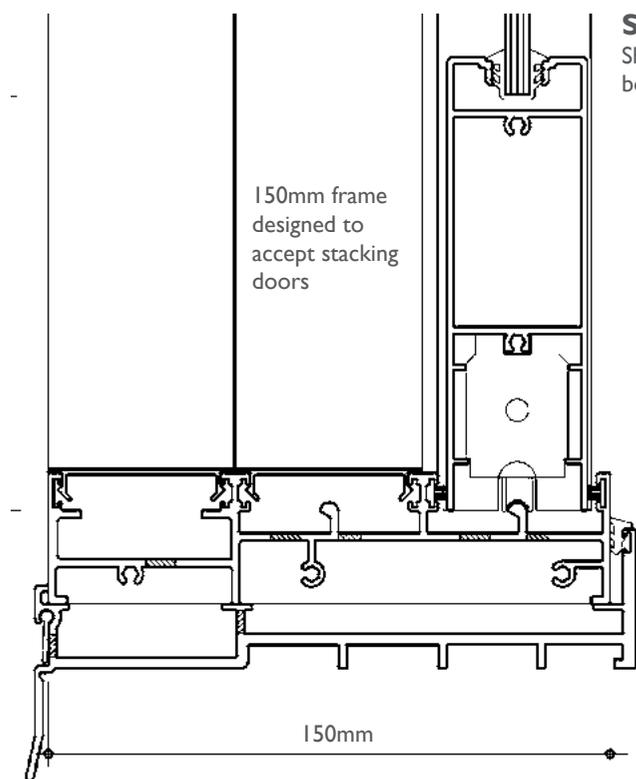
40mm

115mm

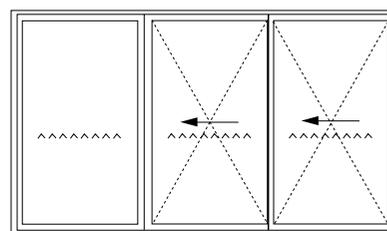
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ALTERNATIVE SLIDING DOOR SlideMASTER™ Series 704 Architectural commercial stacking sliding door



Sill
Showing standard tall bottom rail



Alternative Architectural Commercial Sliding Door

If you are looking for a stronger, bolder sliding door consider the AWS SlideMASTER™ Series 704.

Features overview:

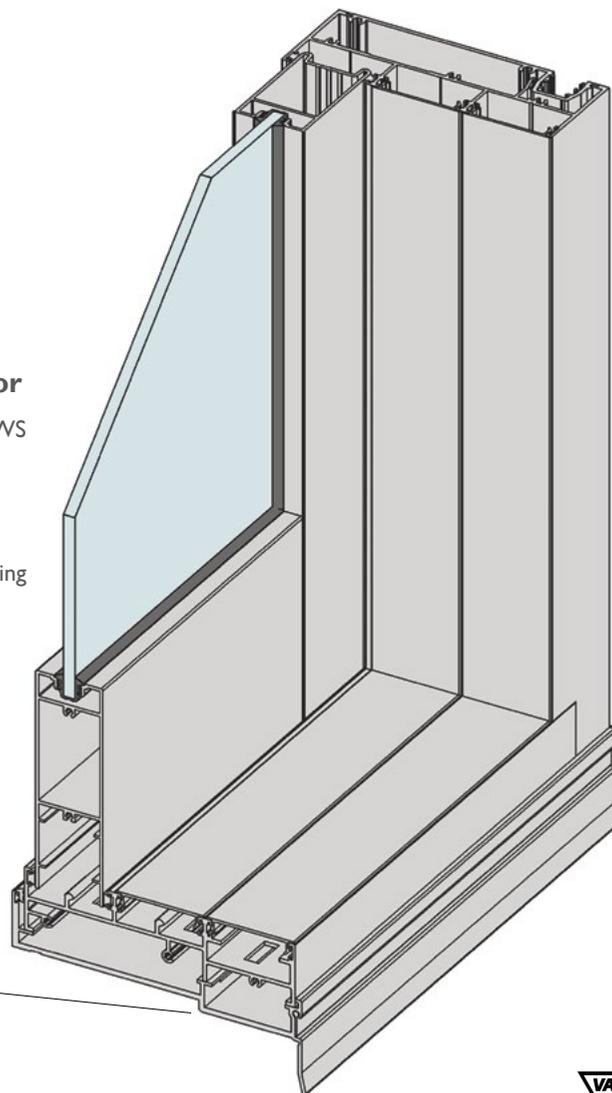
- 102mm and 150mm frame widths.
- Can be fabricated as 'XF', 'FXF', 'FXXF', 'XXF' and 'FXXXXF' stacking doors.
- Very high water resistance.
- Stronger panels allow door heights up to 3000mm.
- Compatible with AWS FrontGLAZE™ commercial framing.



Refer AWS Commercial Specifier Manual for more details.
Coloured animated images can be seen on AWS web site:
www.specifyaws.com.au

Another feature:

The sub-sill under 150mm frame has an additional support at mid span to support the middle door panel.

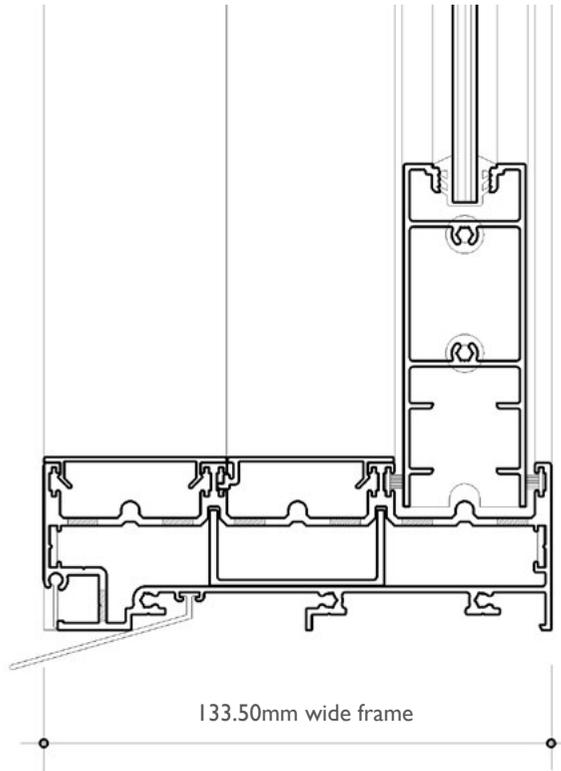


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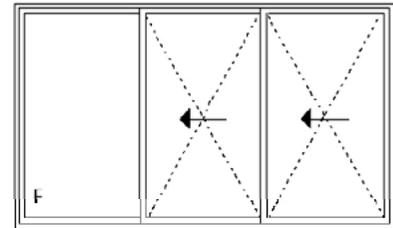
DATE: JUN 20
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ALTERNATIVE SLIDING DOOR MAGNUM™ 618 Stacking Sliding Door



Sill

Showing standard tall bottom rail.



Alternative MAGNUM™ 618 Sliding Door

If you are looking for a stronger, bolder sliding door consider the MAGNUM™ 618 Sliding door

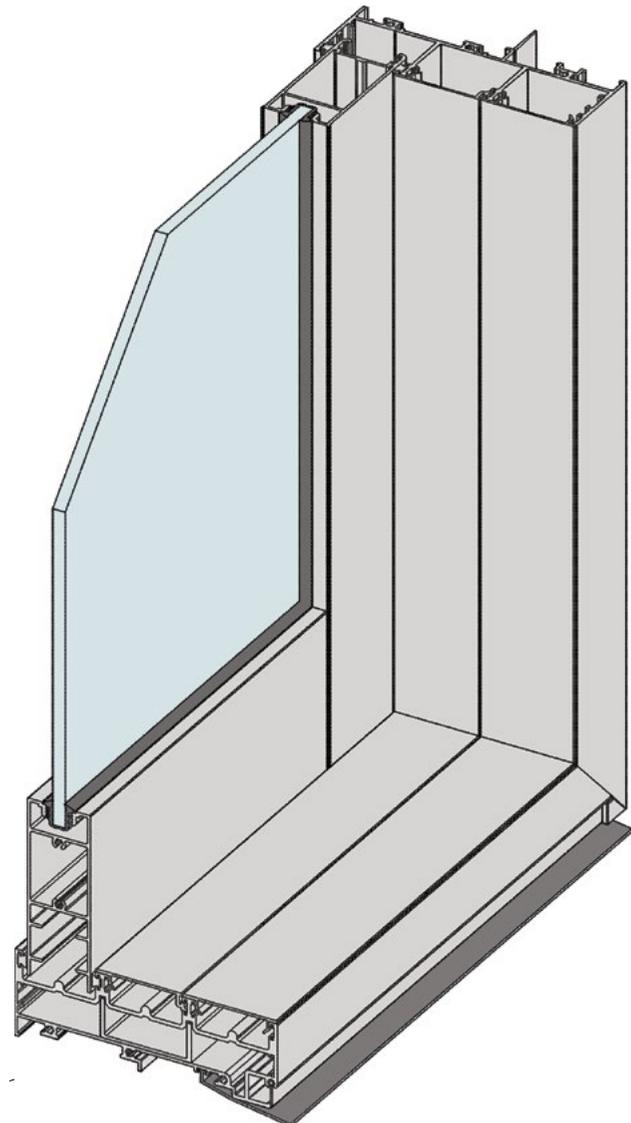
Features overview:

- 133mm and 178mm Frame widths.
- Can be fabricated as 'XF', 'FXF', 'FXXF', 'XXF', 'FXXXXF', 'XXXXF', and 'FXXXXXXF' plus cavity sliding doors .
- Very high water resistance.
- Stronger panels allow door heights up to 2700mm.
- Compatible with MAGNUM™ Designer Series windows and doors

Refer Designer Series section of this manual for more details.



Coloured animated images can be seen on SpecifyAWS: www.specifyaws.com.au



Series 542 DStacker™ Sliding Door

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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 542 DStacker™ sliding door. The screen can be fitted to any of the sliding door configurations up to 8811mm wide (with Standard weave mesh).

The S4 screen frame can be coloured to match the sliding 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.

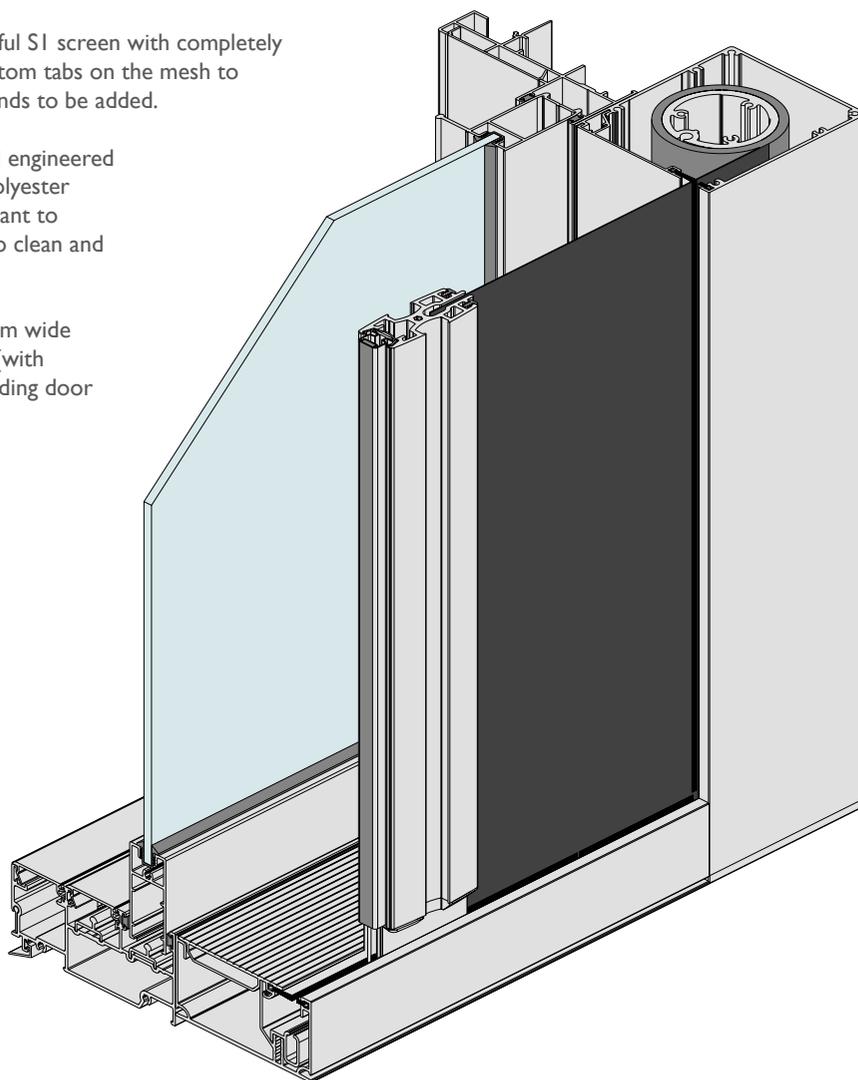
S4 is manufactured in stainless steel and reinforced engineered polymers. PetScreen Lite, the tough PVC coated polyester mesh used in the screen, is hard wearing and resistant to damage from pets and children. The mesh is easy to clean and can be replaced if damaged (service call required).

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.

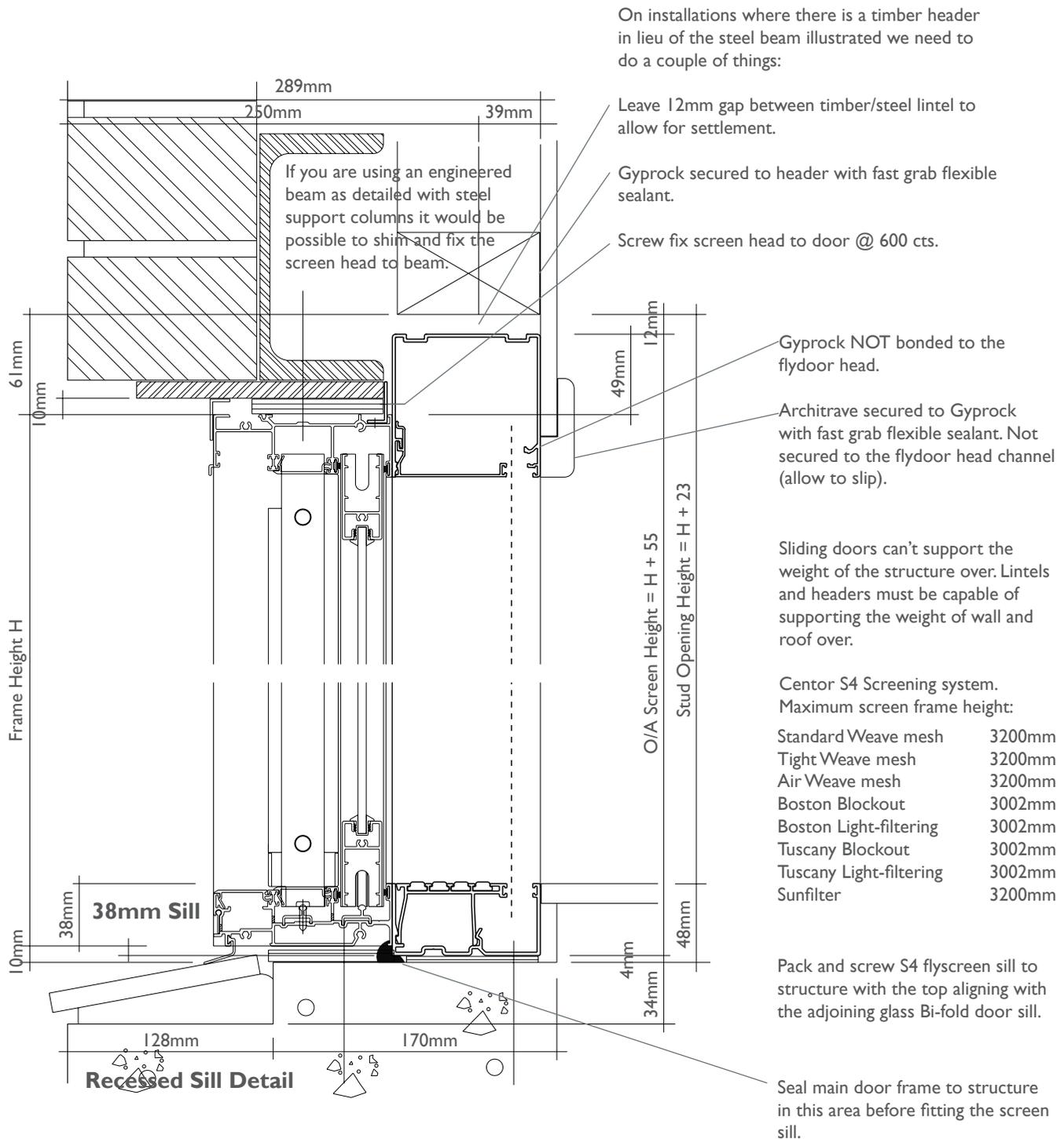
Operating mechanisms are fully contained and do not require maintenance other than keeping clear of dirt and debris.



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

S4 Centor Screening Vertical Sill - 38mm Sill

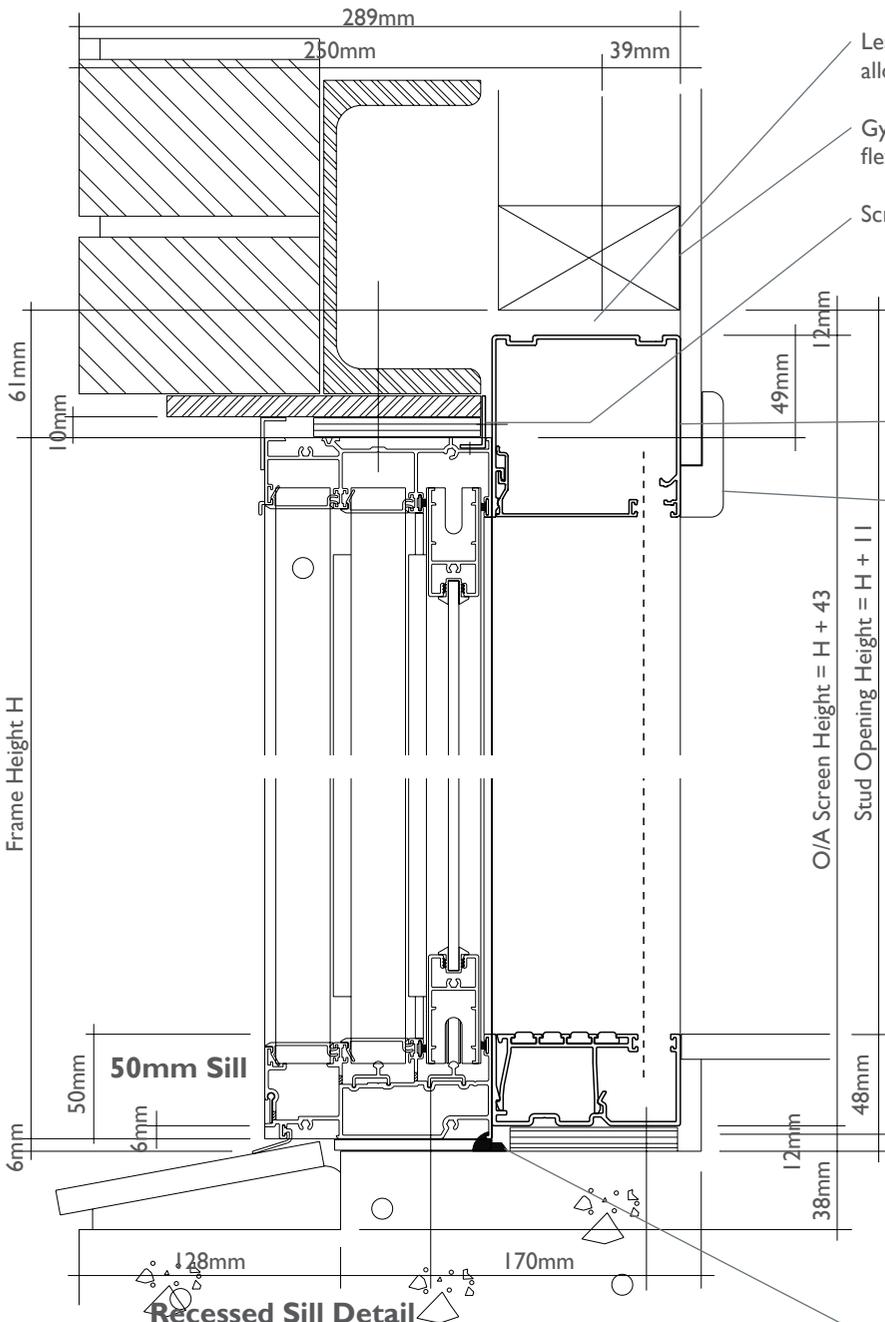


Series 542 DStacker™ Sliding Door

DATE: JUN 20
REPLACES: NOV 09
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S4 Centor Screening Vertical Sill - 50mm Sill

On installations where there is a timber header in lieu of the steel beam illustrated we need to do a couple of things:



Leave 12mm gap between timber/steel lintel to allow for settlement.

Gyprock secured to header with fast grab flexible sealant.

Screw fix screen head to door @ 600 cts.

Gyprock NOT bonded to the flydoor head.

Architrave secured to Gyprock with fast grab flexible sealant. Not secured to the flydoor head channel (allow to slip).

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

Centor S4 Screening system.
Maximum 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

Pack and screw S4 flyscreen sill to structure with the top aligning with the adjoining glass Bi-fold door sill.

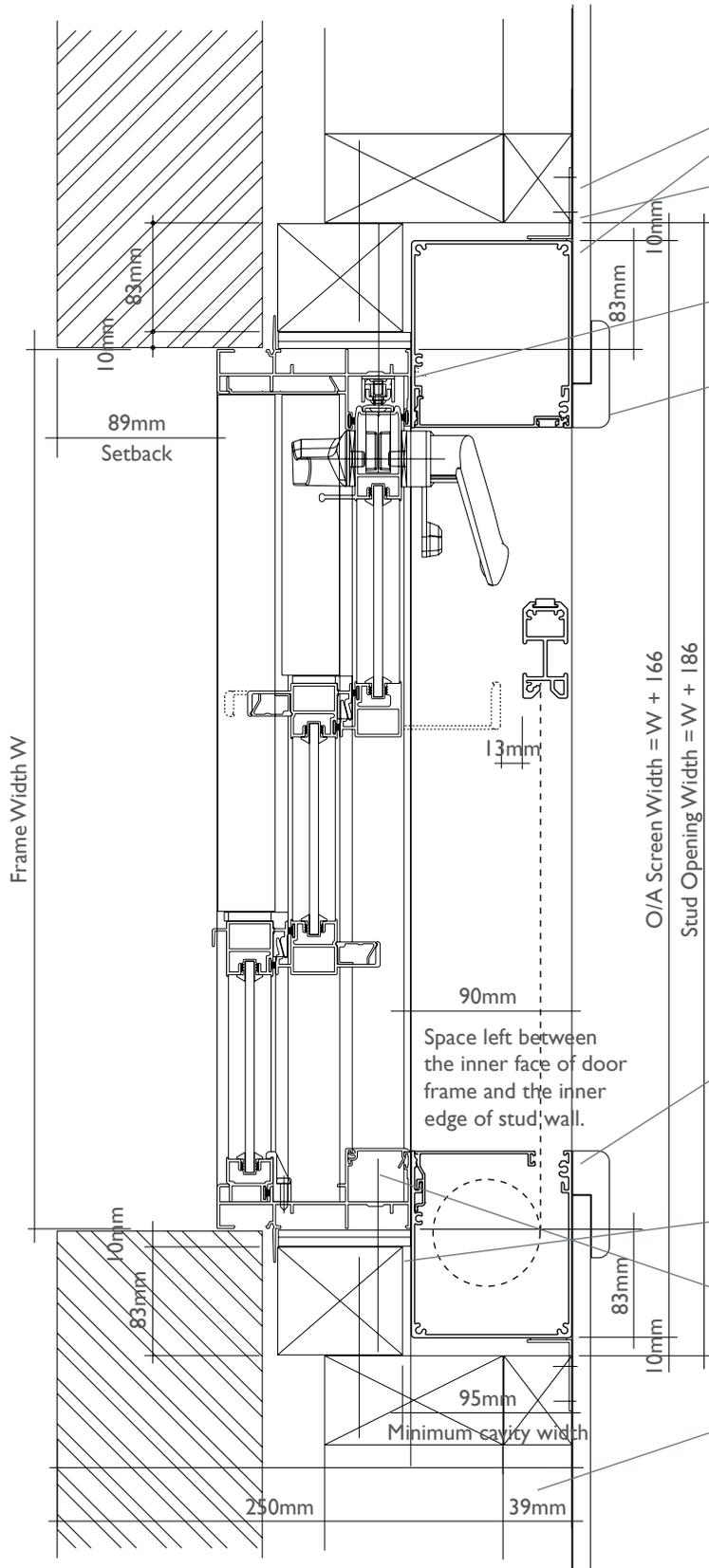
Seal main door frame to structure in this area before fitting the screen sill.

Series 542 DStacker™ Sliding Door

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Type 'XXF' and 'FXX' door

Glass door frame width <= 4489mm Flush jamb also applies to door types 'FXF', 'FXXF' & 'FXXXXF'



Gyprock secured to stud wall and flydoor jamb with fast grab flexible sealant.

Flydoor jamb secured to stud with aluminium fixing lugs and double sided tape, lugs supplied with flydoor kit.

Flydoor jamb secured to main frame with double sided tape.

Architrave secured to Gyprock with fast grab flexible sealant. Don't screw fix architrave or wall lining into the Centor flydoor jamb box as this could damage the screening.

IMPORTANT NOTE:

When you use the single flydoor system on a single direction glass door where the glass door lock is on the jamb as detailed left. The screen frame aligns with the main glass door frame. You will have access to the lock cylinder as the screen door moves into the open position.

If the overall screen width exceeds 4611mm you must use a double screen frame and rebate the screen jambs as shown on following page.

Centor S4 Screening system

Maximum single screen frame width with Standard weave mesh ONLY
Single = 4611mm
Therefore the maximum glass door frame width:
With single screen = 4489mm

Don't screw fix architrave or wall lining into the Centor flydoor jamb box as this could damage the screening

Create a rebate in the inner stud wall to accept the flydoor box as detailed.

Fit timber spacer to create a fixing point for the main glass door leaving 10mm gap for adjustment and shimming.

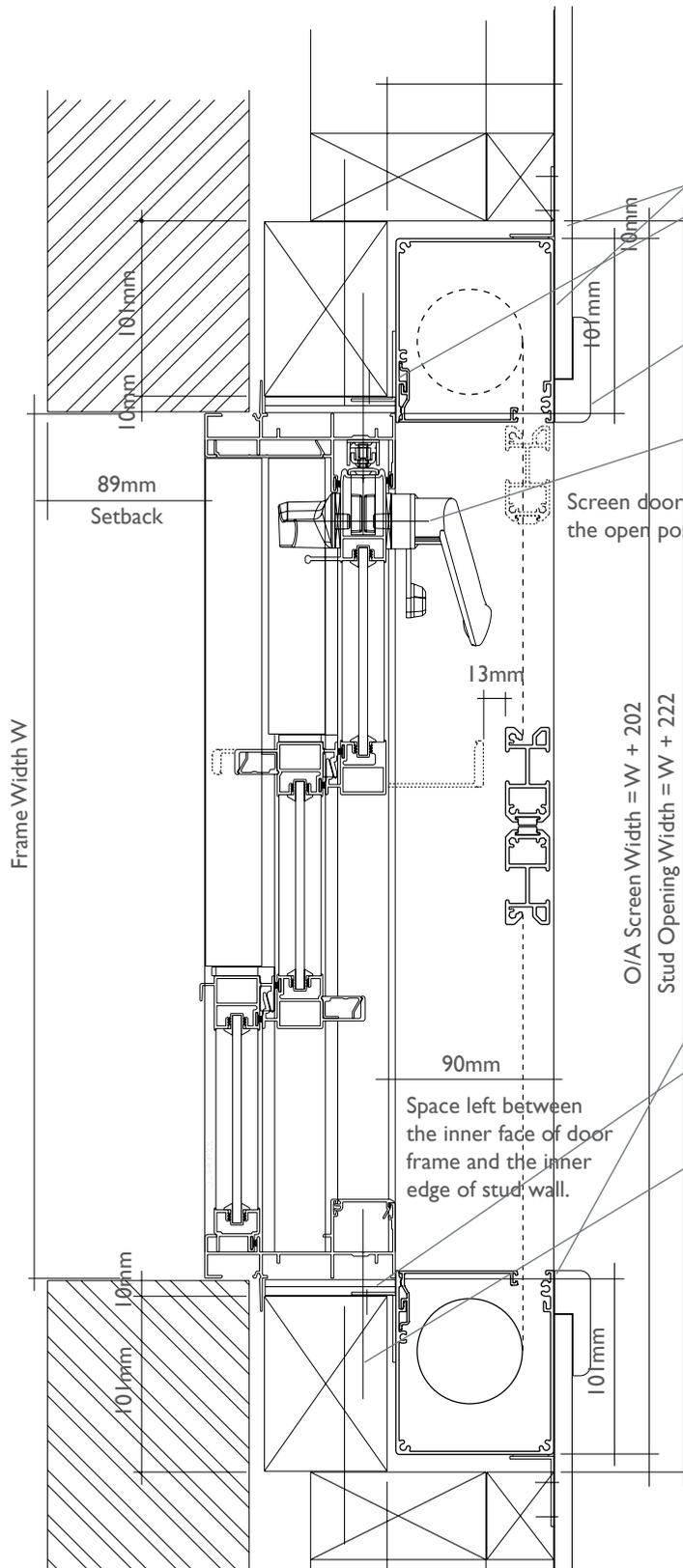
Fix main frame to the spacer block @ 450mm max. cts.

The conventional 250mm brick veneer wall has been thickened up (39mm) on the inner face to accept the flydoor system. If the external wall is 240mm add 49mm packing to the inner face to bring the overall wall thickness back to 289mm.

Series 542 DStacker™ Sliding Door

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

Type 'XXF' and 'FXX' door
Glass door frame width > 4489mm



Gyprock secured to stud wall and flydoor jamb with fast grab flexible sealant.

Flydoor jamb secured to stud with aluminium fixing lugs and double sided tape, lugs supplied with flydoor kit.

Architrave secured to Gyprock with fast grab flexible sealant. Don't screw fix architrave or wall lining into the Centor flydoor jamb box as this could damage the screening.

IMPORTANT NOTE:

When you use the double flydoor system on a single direction glass door where the glass door lock is on the jamb as detailed left. The screen frame must be rebated as detailed to allow access to the glass door internal lock cylinder.

Centor S4 Screening system.

Maximum double screen frame width with Standard weave mesh ONLY Double = 9013mm
This situation does not occur on bi-parting glass doors ('FXXXXF' and 'FXXF') with a double screen system.

Don't screw fix architrave or wall lining into the Centor flydoor jamb box as this could damage the screening.

Create a rebate in the inner stud wall to accept the flydoor box as detailed.

Fit timber spacer to create a fixing point for the main glass door leaving 10mm gap for adjustment and shimming.

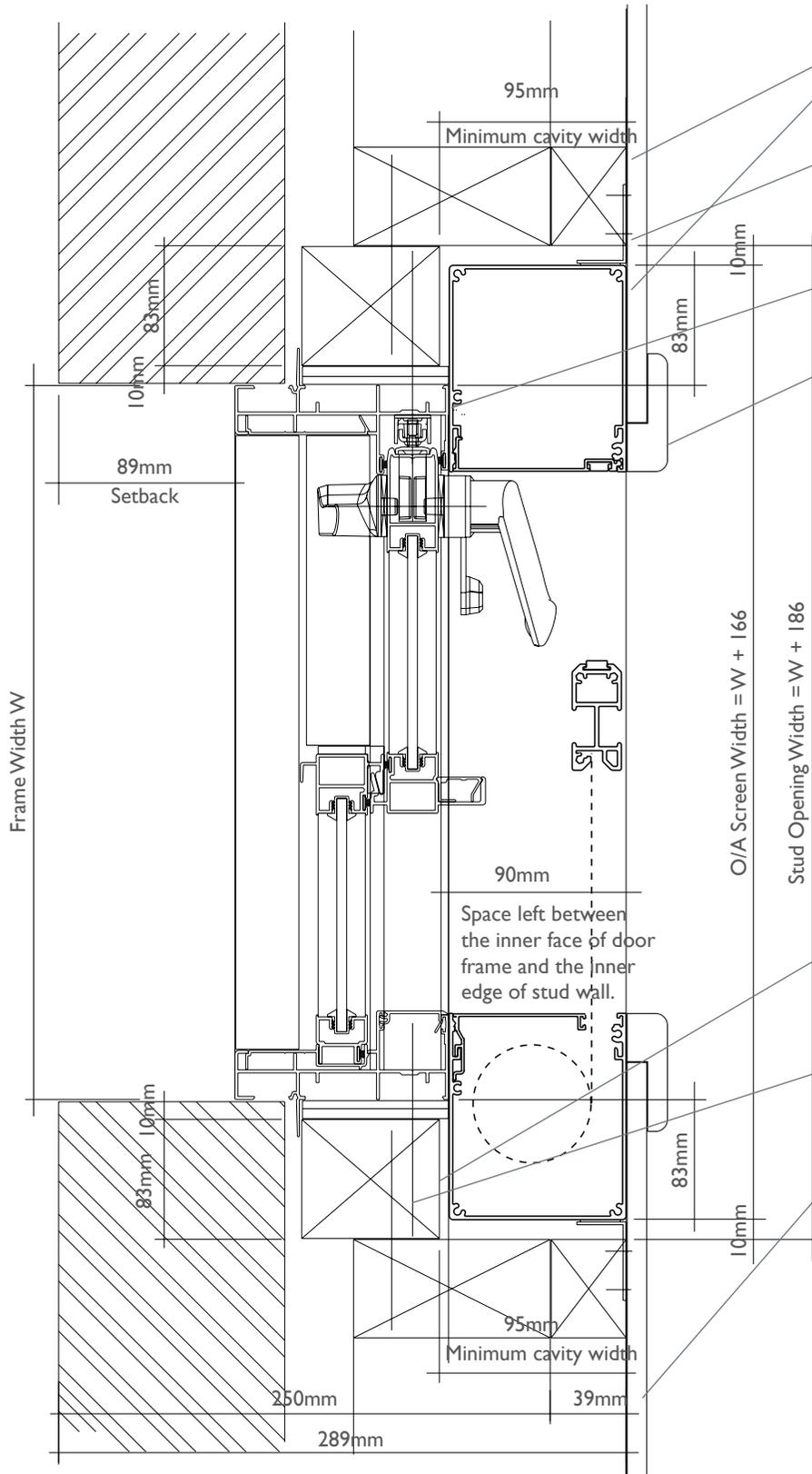
Fix main frame to the spacer block @ 450mm max. cts.

The conventional 250mm brick veneer wall has been thickened up (39mm) on the inner face to accept the flydoor system.

If the external wall is 240mm add 49mm packing to the inner face to bring the overall wall thickness back to 289mm.

Series 542 DStacker™ Sliding Door

DATE: JUN 20
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Gyprock secured to stud wall and flydoor jamb with fast grab flexible sealant.

Flydoor jamb secured to stud with aluminium fixing lugs and double sided tape, lugs supplied with flydoor kit.

Flydoor jamb secured to main frame with double sided tape.

Architrave secured to Gyprock with fast grab flexible sealant. Don't screw fix architrave or wall lining into the Centor flydoor jamb box as this could damage the screening.

Centor S4 Screening system.
Maximum single screen frame width with Standard weave mesh ONLY
Single = 461mm

Create a rebate in the inner stud wall to accept the flydoor box as detailed.

Fit timber spacer to create a fixing point for the main glass door leaving 10mm gap for adjustment and shimming.

Fix main frame to the spacer block @ 450mm max. cts.

The conventional 250mm brick veneer wall has been thickened up (39mm) on the inner face to accept the flydoor system. If the external wall is 240mm add 49mm packing to the inner face to bring the overall wall thickness back to 289mm.