



Series 462 Architectural Sliding Window



Photo courtesy of AVS Windows & Doors

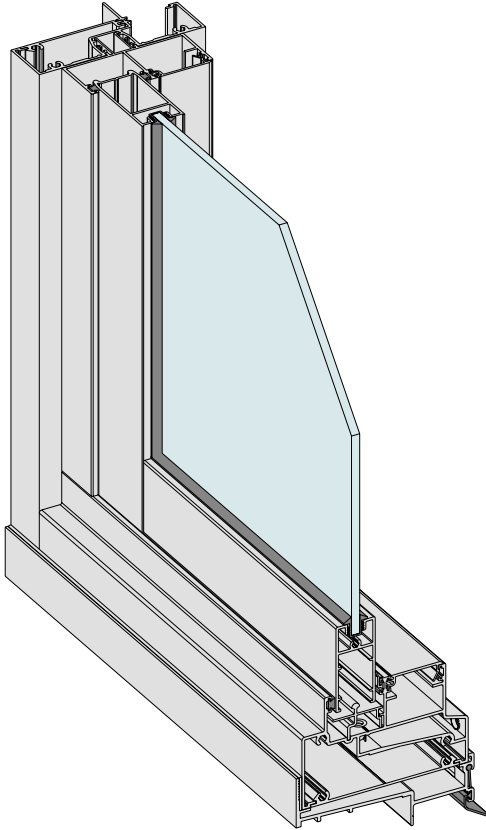


Series 462

ARCHITECTURAL SLIDING WINDOW

DATE: FEB 21
 REPLACES: MAY 13
 SCALE: NOT TO SCALE

KEY FEATURES/PERFORMANCE CHARACTERISTICS



Series 462 Architectural Sliding Window.
Internal View.

- 102mm thick commercial grade sliding window, incorporates bold frame lines and thick (strong) sashes that can carry thick heavy glass, including double glazing.
- The perimeter frame designed to make installation into brick veneer and cavity brick easier with built-in nailing fins (weather bars).
- Extra strong sashes allow large sash windows to be fabricated for high wind load areas.
- Double sash design with the external sash fixed.
- Both fixed and opening sashes can be installed, replaced or reglazed from inside.
- Large variety of window combinations possible (SF, FS, SFS, SS or FSSF) with and without highlights and/or lowlights.
- We also offer double sliding configuration where both sashes can be opened.
- Sliders can be fitted with standard mortice locks as shown below or alternative surface locks.
- Sashes run on heavy duty wheel carriages.
- Flyscreens can be fitted. When there is no requirement for flyscreens, frame is fitted with cavity closers so there are no unwanted recesses.
- Co-extruded PVC sill seal keeps water out of the system.
- Built-in proprietary ball valve drainage to transfer any water that may get into the drainage trough to the tubular sump sill.
- Will resist up to 300Pa water infiltration and comply with airconditioning requirements.

Maximum Panel Height*	1600mm
Maximum Panel Width*	1350mm
Maximum Glass Thickness	≤20mm

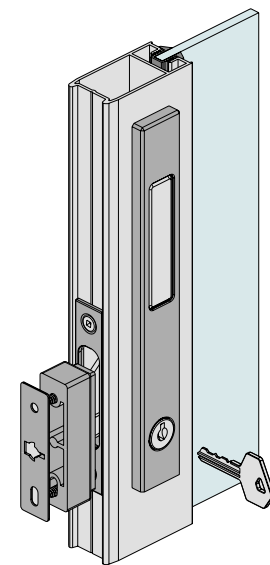
* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, email techsupport@awsaustralia.com.au

**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/462



This image shows the ICON™ sliding window mortice lock. Alternative ANDO™ & MIRO™ designs also available and featured later in this manual.

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SOUND REDUCTION

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

Glass Description	Rating
4mm Glass	Rw31
6.38mm Laminated glass	Rw33
10.38mm Laminated glass	Rw35
16mm IGU (4mm Glass / 8mm air gap / 4mm Glass)	Rw32

NOTE: The actual tests were carried out on a product very similar to this window (Series 601).



WERS RATINGS

Single Glazed

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-030-01	5CLR	6.0	0.66	0.69	1.15
AWS-030-02	5SG	6.0	0.46	0.57	1.15
AWS-030-03	5GY	6.0	0.49	0.39	1.15
AWS-030-04	6.38Sct	4.2	0.54	0.63	1.15
AWS-030-05	6.38VLam	5.9	0.65	0.69	1.15
AWS-030-06	4SnClr	4.8	0.46	0.51	1.15
AWS-030-07	6SnClr	4.8	0.45	0.50	1.15
AWS-030-08	6EVanBG	4.6	0.35	0.42	1.15
AWS-030-09	6EVanClr	4.6	0.48	0.49	1.15
AWS-030-10	6EVanGy	4.6	0.31	0.24	1.15
AWS-030-11	6EVanSpB	4.6	0.28	0.29	1.15
AWS-030-12	6EVanSpGn	4.6	0.28	0.35	1.15
AWS-030-13	6.38LamGy	6.0	0.27	0.10	1.15
AWS-030-14	6.38TLam	6.0	0.31	0.25	1.15
AWS-030-15	6.38SnClr	4.7	0.44	0.50	1.15
AWS-030-16	6.38SnGy	4.7	0.33	0.24	1.15
AWS-030-17	6.38CPClr	4.4	0.52	0.61	1.15
AWS-030-18	6.38CPGn	4.4	0.38	0.53	1.15
AWS-030-19	6.38CPGy	4.4	0.38	0.29	1.15
AWS-030-20	10.38GyLam	6.0	0.18	0.07	1.15
AWS-030-21	10.38ClrLam	6.0	0.41	0.41	1.15
AWS-030-22	10.38SnClr	5.1	0.36	0.40	1.15
AWS-030-23	10SnClr	4.8	0.33	0.36	1.15
AWS-030-24	10.38TLam	4.8	0.33	0.36	1.15

HOW TO SPECIFY

SYSTEM NAME

Elevate Aluminium Systems Series 462
 Architectural Sliding Window

FINISH

Powder Coat
 Anodised

COLOUR

Select from the AWS 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)



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.

NOTES

1. Uw is the whole window U-value
2. SHGCw is the whole window solar heat gain coefficient
3. Twv is the whole window visible (light) transmittance
4. Maximum air infiltration is 5.0L/s.m2 at a positive pressure difference of 75 Pa as measured according to AS 2047
5. Static performance (Uw SHGCw Twv Tdw) calculated using Window 6.3 and Therm 6.3 software (LBNL), 1999-2010
6. Results disclosed at Australian Fenestration Rating Council (AFRC) regulations.
7. Ratings for use with Section J of the Building Code of Australia - Class 2-9

For the latest WERS data for this system visit www.wers.net

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WERS RATINGS

Double Glazed

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-030-25	4/10/4	4.0	0.56	0.58	1.15
AWS-030-26	5/8/5	4.1	0.54	0.58	1.15
AWS-030-27	4/10/4ET	3.5	0.52	0.54	1.15
AWS-030-28	4/10Ar/4ET	3.3	0.52	0.54	1.15
AWS-030-29	4Az/10/4ET	3.5	0.31	0.45	1.15
AWS-030-30	5SG/8Ar/5ET	3.4	0.32	0.44	1.15
AWS-030-31	4SnClr/10/4	4.3	0.34	0.37	1.15
AWS-030-32	4SnClr/10Ar/4	4.1	0.34	0.37	1.15
AWS-030-33	6.38CPClr/8/4	4.3	0.39	0.44	1.15
AWS-030-34	6.38CPClr/8Ar/4	4.0	0.39	0.44	1.15
AWS-030-35	6.38CPGy/8/4	4.3	0.28	0.21	1.15
AWS-030-36	6.38CPGy/8Ar/4	4.1	0.28	0.21	1.15
AWS-030-37	6SnClr/10/6	4.3	0.33	0.36	1.15
AWS-030-38	6SnClr/10Ar/6	4.1	0.33	0.36	1.15
AWS-030-39	10SnClr/6/6	4.5	0.32	0.35	1.15
AWS-030-40	10SnClr/6Ar/6	4.3	0.32	0.35	1.15

NOTES

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3. Twv is the whole window visible (light) transmittance
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DESIGN FEATURES

The 26mm thick heavy duty sliding window sashes have been fitted into custom head, sill and jamb inlay adaptor that snaps to standard 30mm frame as shown right or alternative 44mm wide jamb.

The extra strong sashes allow large sash windows to be fabricated for high wind load areas.

Double sash design with the external sash fixed (SF) or both sashes moving (SS).

Both fixed and opening sashes can be installed, replaced and/or reglazed from inside the building. This could be an important feature in elevated situations

There is a large variety of window combinations possible (SF, FS, SFS, FSSF or SS) with and without highlights/lowlights.

We have designed a number of compatible framing suites that can be coupled or used together.

- Series 400 CentreGLAZE™ framing
- Series 424 Double GLAZED CentreGLAZE™ framing

102mm x 44mm head and sill, 102mm x 30mm (or alternative 44mm) jamb, 44mm mullion and 44mm transoms match.

Sliders can be fitted with standard mortice locks or alternative surface locks.

Sashes run on heavy duty wheel carriages.

Two flyscreen options (not applicable to type 'SS' windows):

- **No flyscreens:** Frame fitted with cavity closers so there are no unwanted recesses to catch dust, water and bugs, as shown right.
- **Conventional flyscreens:** Two conventional size extruded flyscreen frames (25 x 11) can be fitted into the window using custom frame trims to accept the screen, refer details in these notes.

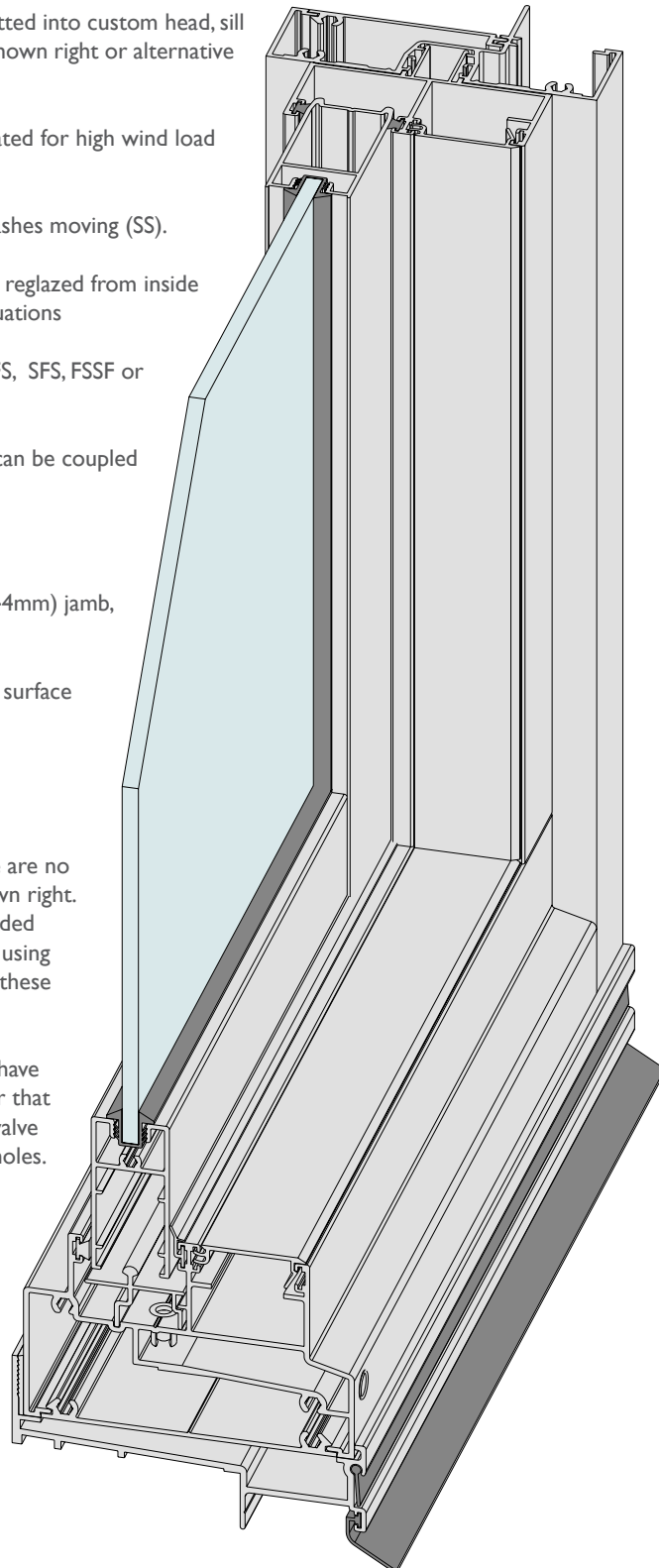
Co-extruded PVC sill seal keeps water out of the system. We have built-in the proprietary ball valve drainage to transfer any water that may get into the drainage trough to the tubular sump sill. This valve also reduces blowback through the hooded external drainage holes.

Unwanted frame recesses are fitted with snap-in flat closers to ensure that the clean looks are maintained.

It's possible to re-hand the window on-site (change type 'SF' to 'FS') depending on what lock has been used.

Sashes and sidelights will accept a variety of glass thicknesses from 4mm to 20mm insulating glass units. Dedicated sash rail and stiles for 16mm IGUs.

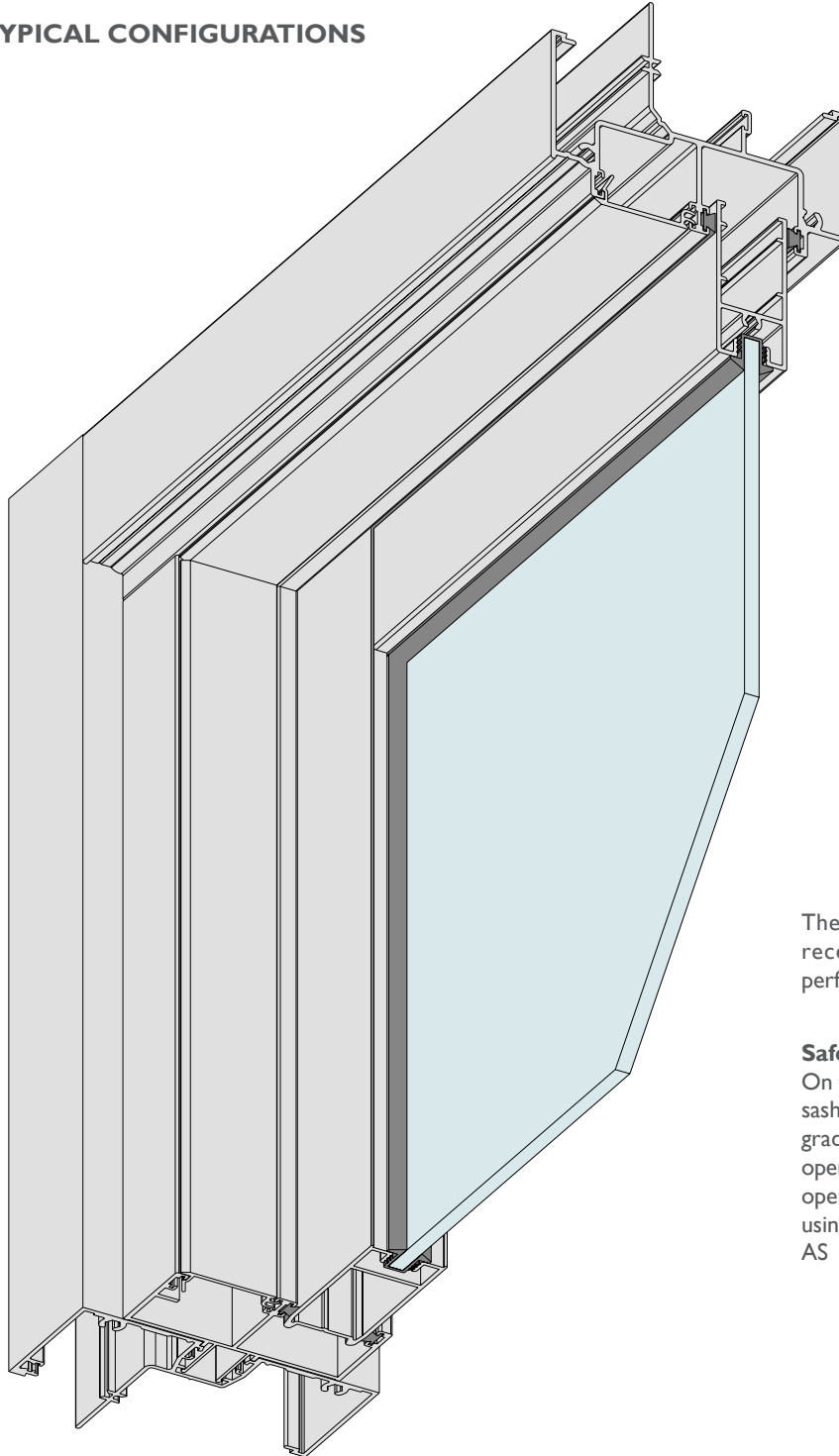
We have 90° and 135° corner mullions for bay and box windows.



Series 462 ARCHITECTURAL SLIDING WINDOW

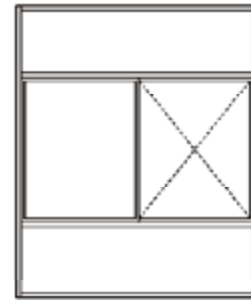
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TYPICAL CONFIGURATIONS



Alternative
44mm wide jamb illustrated.

Water Resistance:
We always recommend the use of sub-sills under commercial frames.

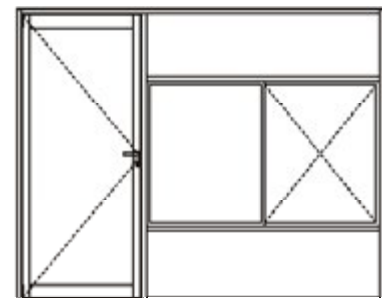


Series 462 can be fabricated as 'SF', 'FS', 'SFS', 'FSS' or SS with lowlights and/or highlights as shown above.

The illustration left shows how the unwanted recesses are closed off to improve weather performance and appearance.

Safety Glass:

On the example below, the door panel and the two sashes in the sliding window sidelights would require grade 'A' safety glass. If the opening sash was in the open position it would be within 300mm of the door opening. Highlight and lowlight must also be glazed using grade 'A' safety glass. Refer Australian Standard AS 1288 for more information.



SASH STRENGTH

'SF', 'FS' and 'SS' windows		Meeting stile combinations				
Height	Width		Light	Medium	Heavy	Extra Heavy
mm	mm					
1600	1832	L/180 S	1064	1717	2528	
		L/250 S	766	1243	2216	
		U	2273	2576	3792	
1600	2132	L/180 S	946	1517	2234	
		L/250 S	681	1105	1970	
		U	2008	2276	3351	
1600	2432	L/180 S	871	1388	2043	
		L/250 S	627	1017	1814	
		U	1837	2082	3065	
1600	2732	L/180 S	826	1309	1927	
		L/250 S	595	965	1720	
		U	1732	1963	2890	

'SFS' windows		Meeting stile combinations				
Height	Width		Light	Medium	Heavy	Extra Heavy
mm	mm					
1600	2432	L/180 S	1100	1762	2594	
		L/250 S	792	1284	2289	
		U	2332	2643	3891	
1600	2732	L/180 S	1028	1641	2416	
		L/250 S	740	1200	2140	
		U	2172	2462	3624	
1600	3032	L/180 S	981	1565	2304	
		L/250 S	707	1146	2043	
		U	2071	2347	3456	
1600	3332	L/180 S	947	1510	2223	
		L/250 S	682	1106	1972	
		U	1998	2265	3334	
1600	3632	L/180 S	918	1461	2151	
		L/250 S	661	1072	1911	
		U	1935	2192	3227	

'FSSF' windows		Meeting stile combinations				
Height	Width		Light	Medium	Heavy	Extra Heavy
mm	mm					
1600	2432	L/180 S	1507	2444	3333	
		L/250 S	1085	1760	3138	
		U	3251	3684	5000	
1600	2732	L/180 S	1343	2179	3215	
		L/250 S	967	1569	2797	
		U	2891	3276	4823	
1600	3032	L/180 S	1219	1976	2908	
		L/250 S	877	1423	2537	
		U	2615	2963	4363	
1600	3332	L/180 S	1121	1813	2669	
		L/250 S	807	1309	2334	
		U	2399	2719	4003	
1600	3632	L/180 S	1044	1682	2478	
		L/250 S	752	1219	2174	
		U	2228	2524	3716	

Rating tables for window meeting stiles on this page.

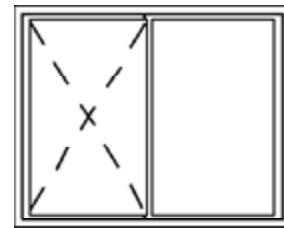
S = Serviceability limit state
 (deflection = L/180 or deflection L/250).

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

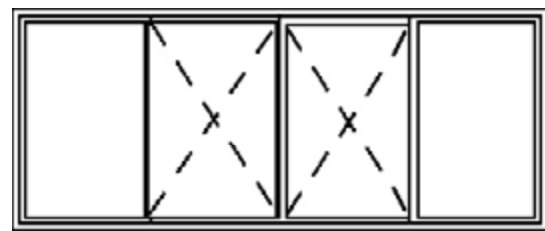
These tables have been calculated using nominal section properties.

A typical assembly has been tested as per the requirements of AS 2047.

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



1/4 1/2 1/4



Type 'FSSF' windows are limited by the strength of the centre meeting stiles.

Meeting stile combinations

	External	Internal
Light	42036	42036
Medium	42036	42014
Heavy	42036	42015
Extra heavy	42015	42015

Details on meeting stiles are shown on later page.

Water resistance - 300Pa

We always recommend sub-sills under commercial windows.

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HEAD AND SILL - 'SF' WINDOW

Head

We have a dedicated head section to allow the installation of sliding window sashes into framing.

Built-in nailing fin on head, jambs and sub-sill make this window significantly more water proof and easier to install into brick veneer and cavity brick walls.

Weatherpile seals.

Recess closed off.

If there are no flyscreens, we fit the flat filler as shown on this detail.

If there are flyscreens, we use a custom filler to suit the flyscreens, refer flyscreening page later in these notes.

For the best flyscreening finish always specify AWS flyscreens and from an approved fabricator.



CAD file: DWG
462.SLW.I

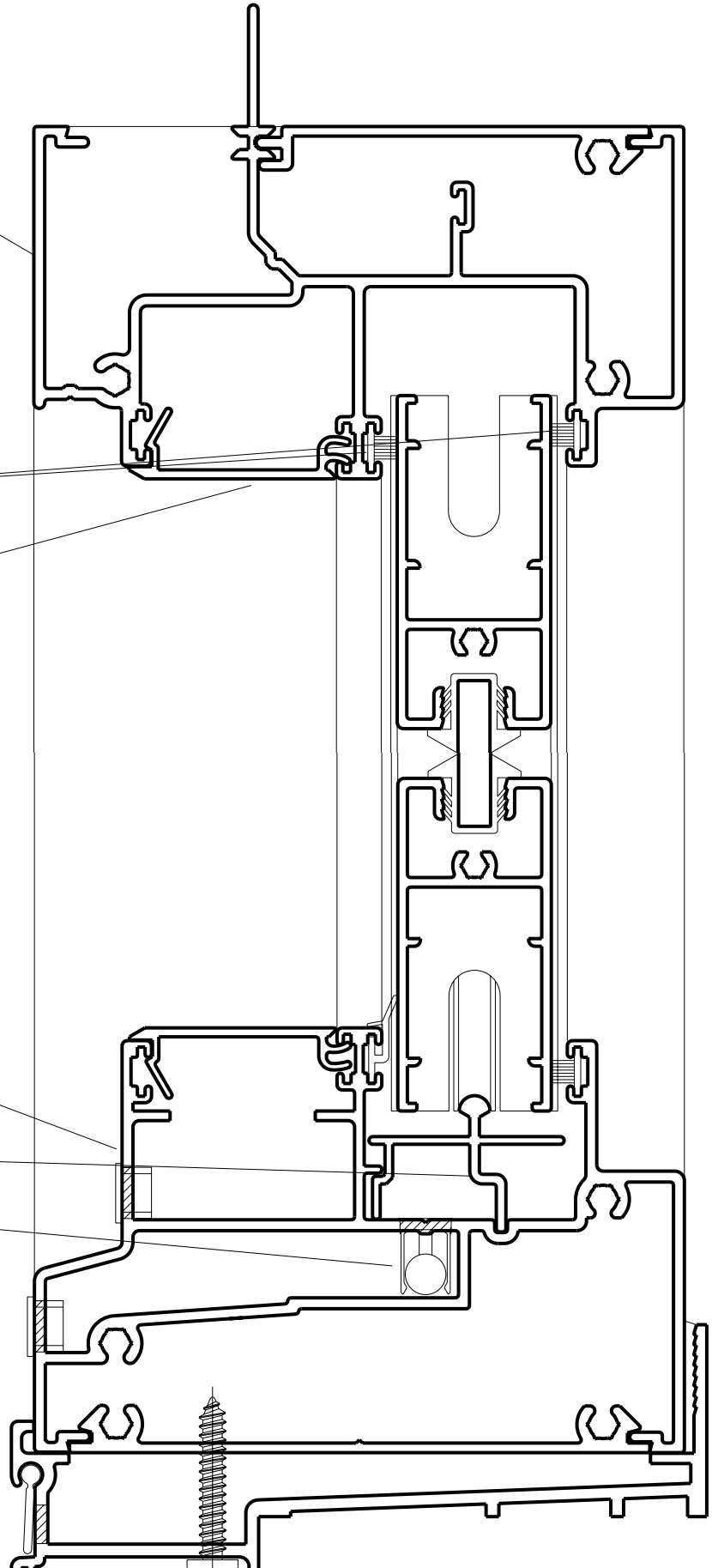
Sill

We have a dedicated sill section to allow the installation of sliding window sashes into framing.

Removable running rail.

Proprietary ball drainage valve.

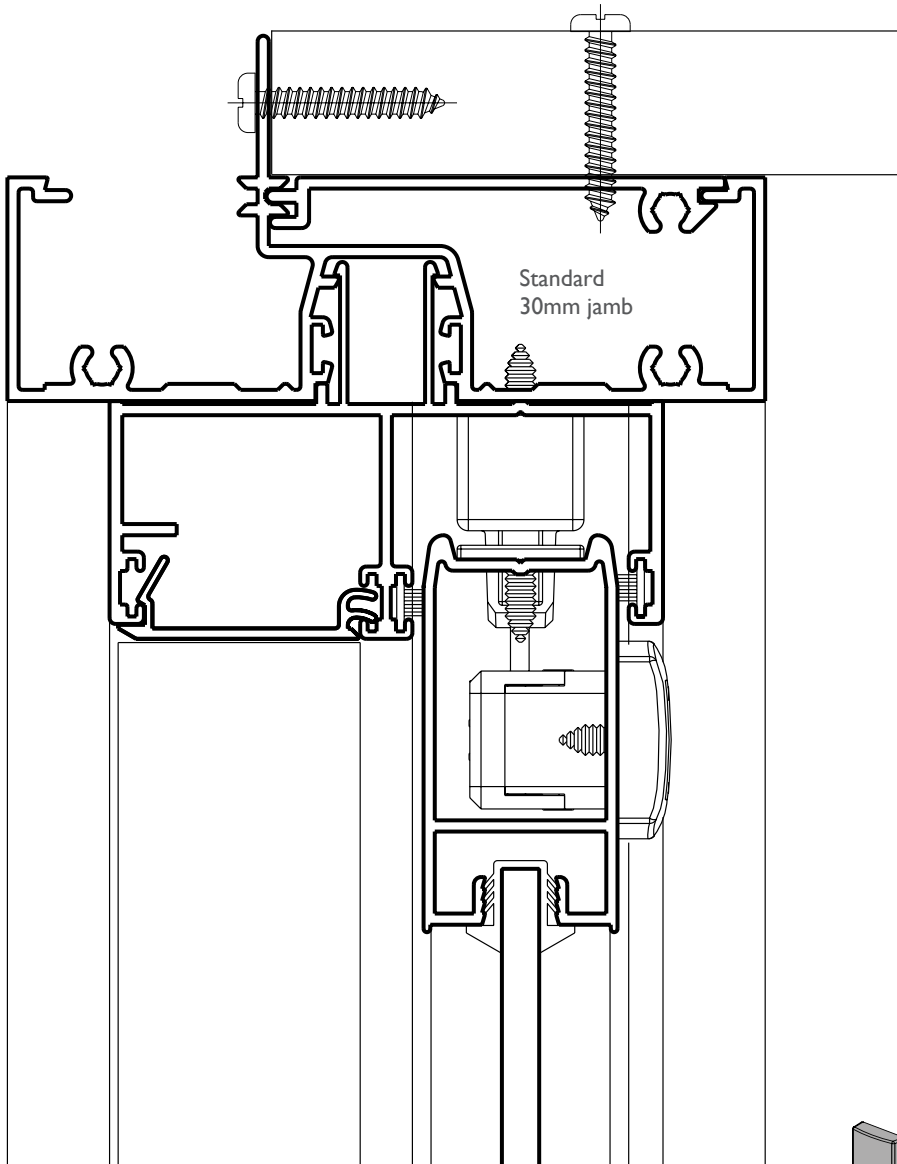
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JAMB DETAIL



The custom jamb adaptor has been designed to allow us to have two lines of reveal fixings (as shown). This pulls the reveal up tight on the window frame - no more gaps.

The detail left shows the standard 30mm narrow jamb. We also have a 44mm wide nailing fin jamb.

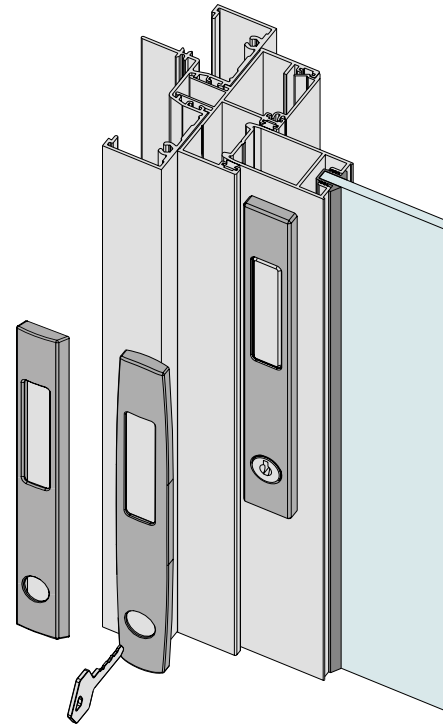
Window can be fitted with standard mortice lock (ANDO™ or ICON™) as shown or alternative surface mounted lock. You can view the lock options in colour on our website www.elevatealuminium.com.au



CAD file: DWG
462.SLW.1

This image shows ICON™ mortice lock and the alternative ANDO™ and MIRO™ cover plates.

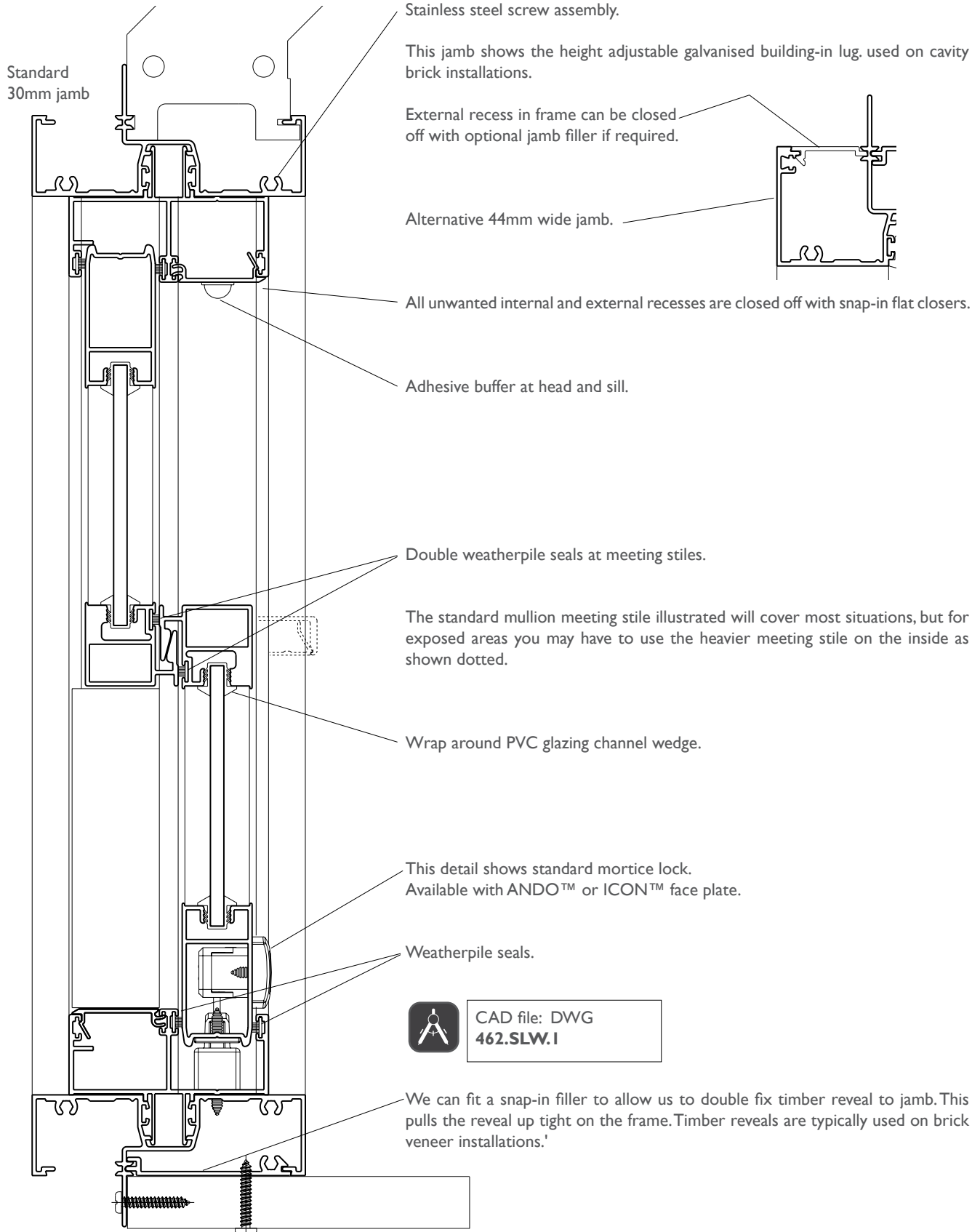
- ICON™ cover plate is brushed stainless steel.
- ANDO™ cover plate is cast aluminium and available in a variety of standard and special powder coat finishes.
- MIRO™ cover plate incorporates high performance powdercoat finish ideal for coastal applications.



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HORIZONTAL SECTION THROUGH 'SF' WINDOW

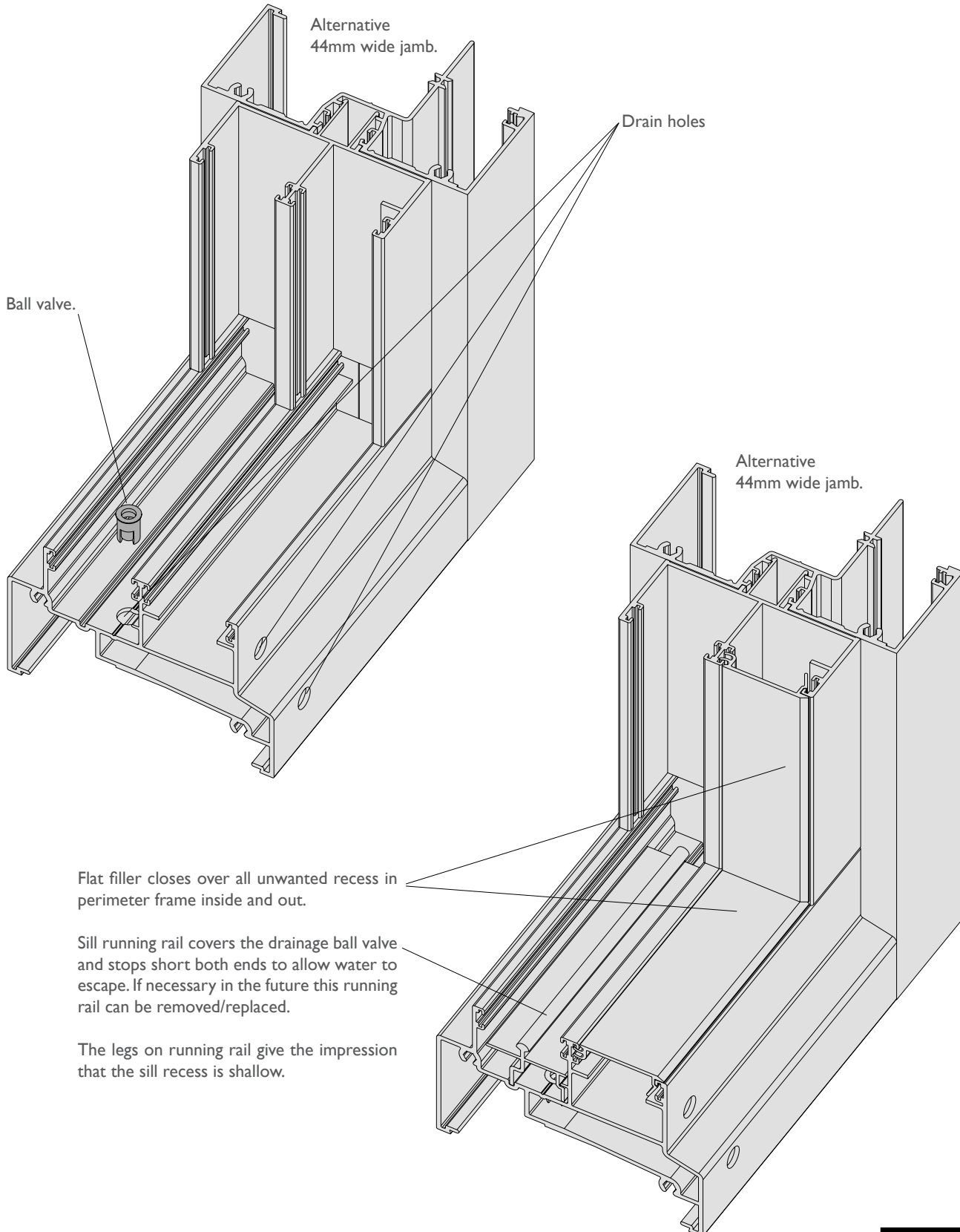


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SILL DRAINAGE



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**DOUBLE GLAZED WRAP AROUND SLIDING SASH - TYPE 'FS' WITH 16mm IGU
 AND 24mm IGU IN THE DOUBLE GLAZED FIXED LOWLIGHT**

This detail is created with run through double glazed jambs.

The jamb runs through to ensure overall frame strength and weather resistance.

In the lowlight area the wide glazing pocket will accept 24mm IGU's with co-extruded Santoprene captive and roll-in glazing wedges.

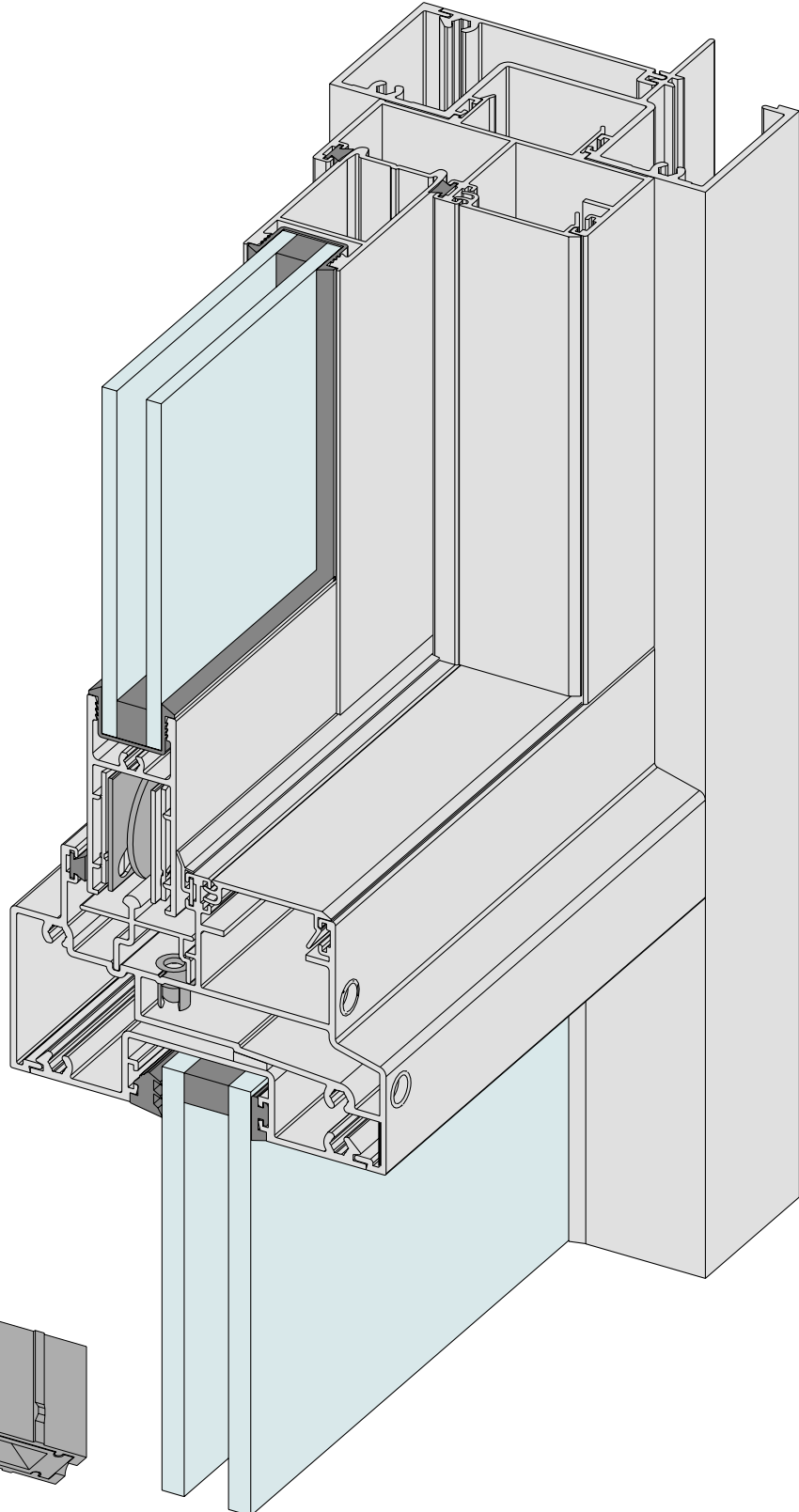
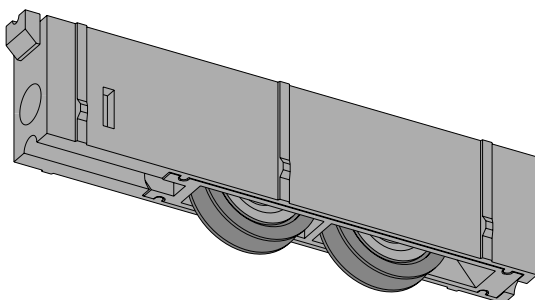
In sliding sash area we use a dedicated jamb adaptor, to snap into the double glazed frame pocket.

Series 462 transom (sill) accept the double glazed CentreGLAZE™ pocketed filler. To achieve a wide double glazed pocket in the fixed area we snap the double glazed channel adaptor to the transom sill as detailed right.

The double glazed unit nests neatly into transom, jambs and sill, giving a clean professional finish.

Water resistance 300Pa.

Heavy double glazed sashes heavier than 30Kg will be fitted with double bogey wheels.'

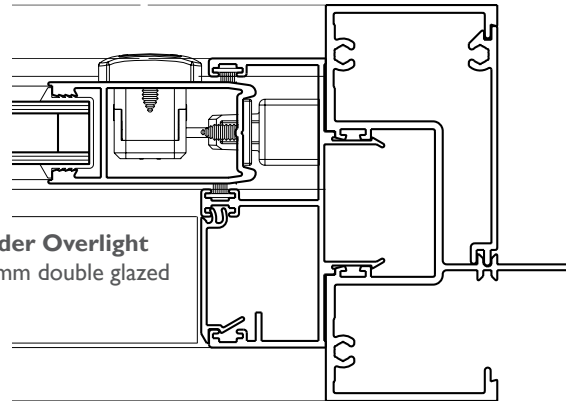
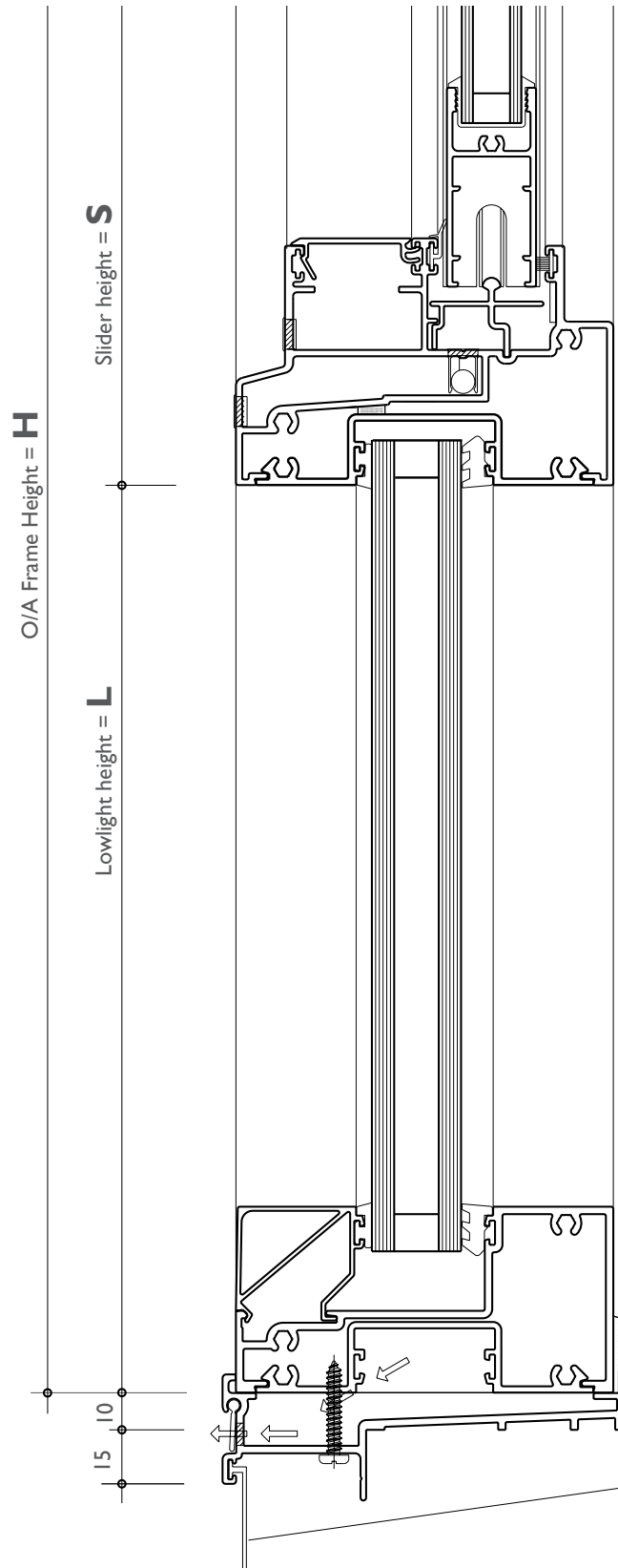


Series 462

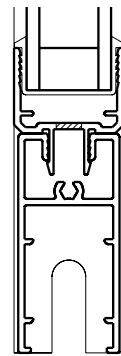
ARCHITECTURAL SLIDING WINDOW

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DOUBLE GLAZED WRAP AROUND SLIDING SASH WITH 16mm IGU AND 24mm IGU IN THE DOUBLE GLAZED FIXED LOWLIGHT



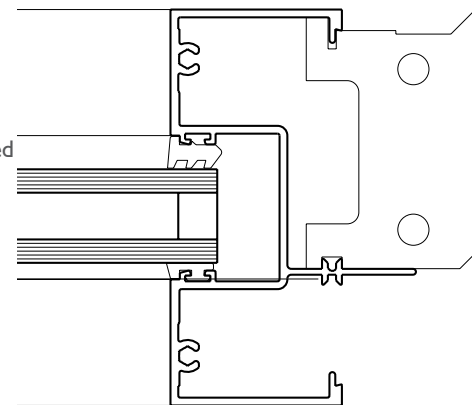
Slider Overlight
16mm double glazed



The detail top left shows 16mm IGU. To get 20mm IGU into the sliding panel we fit an inlay adaptor channel as shown direct left.



CAD file: DWG
462.SLW.8



Fixed lowlight
24mm double glazed

The double glazed unit nests neatly into transom, jambs and sill, giving a clean professional finish.

Sub-sills are standard on Series 462 windows and are fitted with custom moulded nylon end caps.

Flexible PVC sill flap caters for sill brick variations.

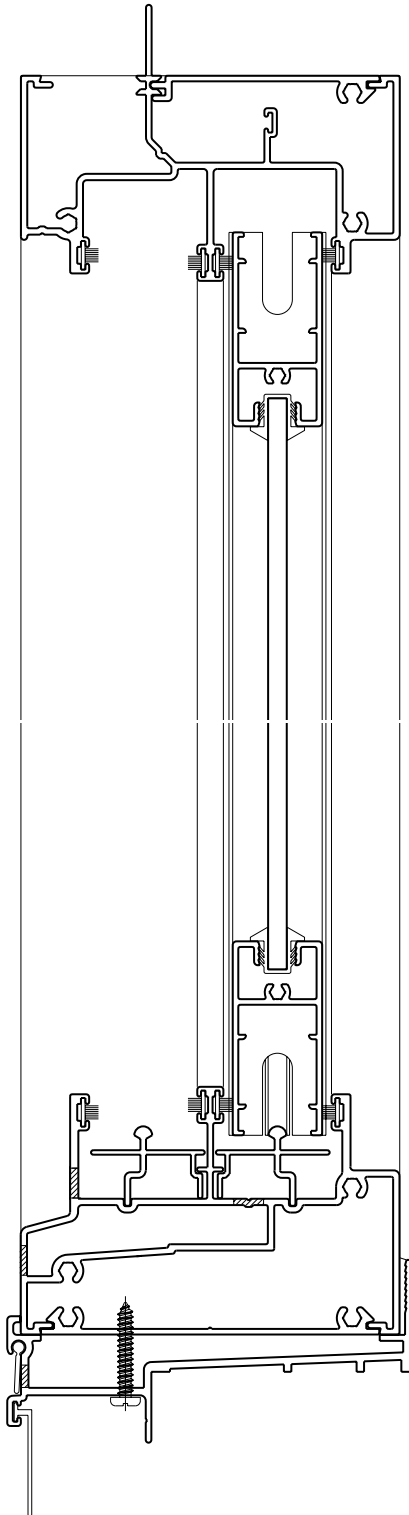
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HORIZONTAL & VERTICAL SECTION TYPE 'SS' WINDOWS

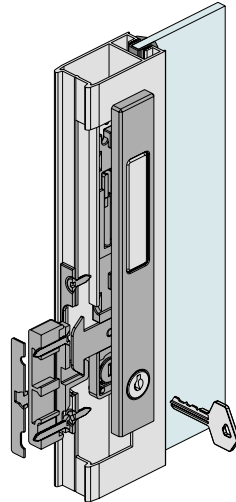
VERTICAL SECTION type 'SS' WINDOWS



The panels shown on this page will accept glass up to 7.52mm thick, we also have stiles, rails and wedges that will accept 8.38, 10.38 laminated and 16mm IGU's or 20mm thick IGU's with channel adaptor.

Standard 30mm nailing fin jamb.

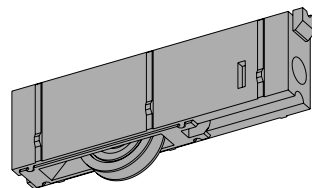
Series 462 windows are fitted with custom ANDO™ press button locks (both sashes). Key lock when required.



This cut away image of alternative ICON™ mortice.

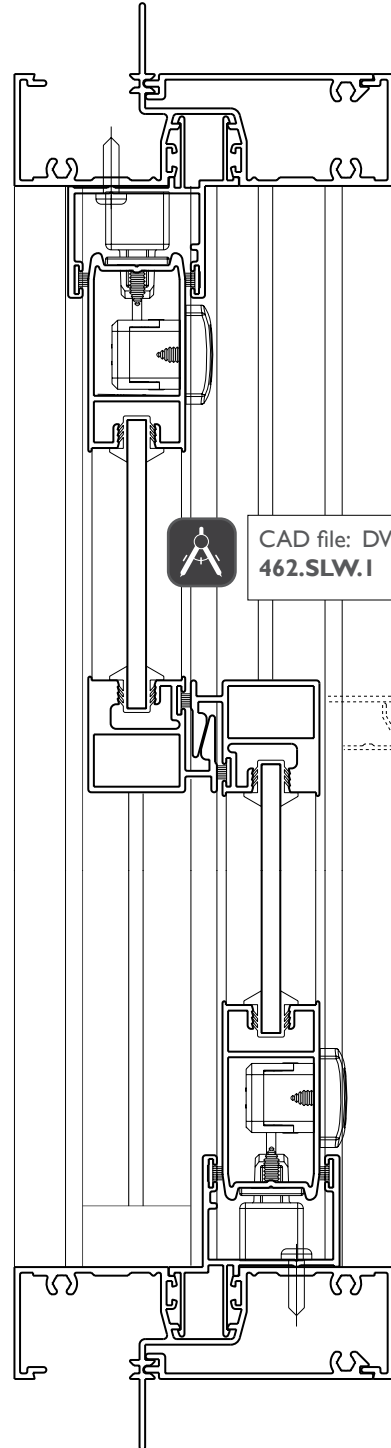
The features of this lock are:

- Stainless steel ICON™ face plate and push plate.
- Stainless steel lock tongue hole dress plate.
- Stainless steel lock tongue.
- The lock will self latch when closed, can be key locked when required for added security.



Panels run on large diameter ball bearing nylon tyres for smooth long term operation. Single wheel rollers used on panels <=30Kg, on heavier panels >30Kg we fit double bogey wheels.

HORIZONTAL SECTION type 'SS' WINDOWS



CAD file: DWG
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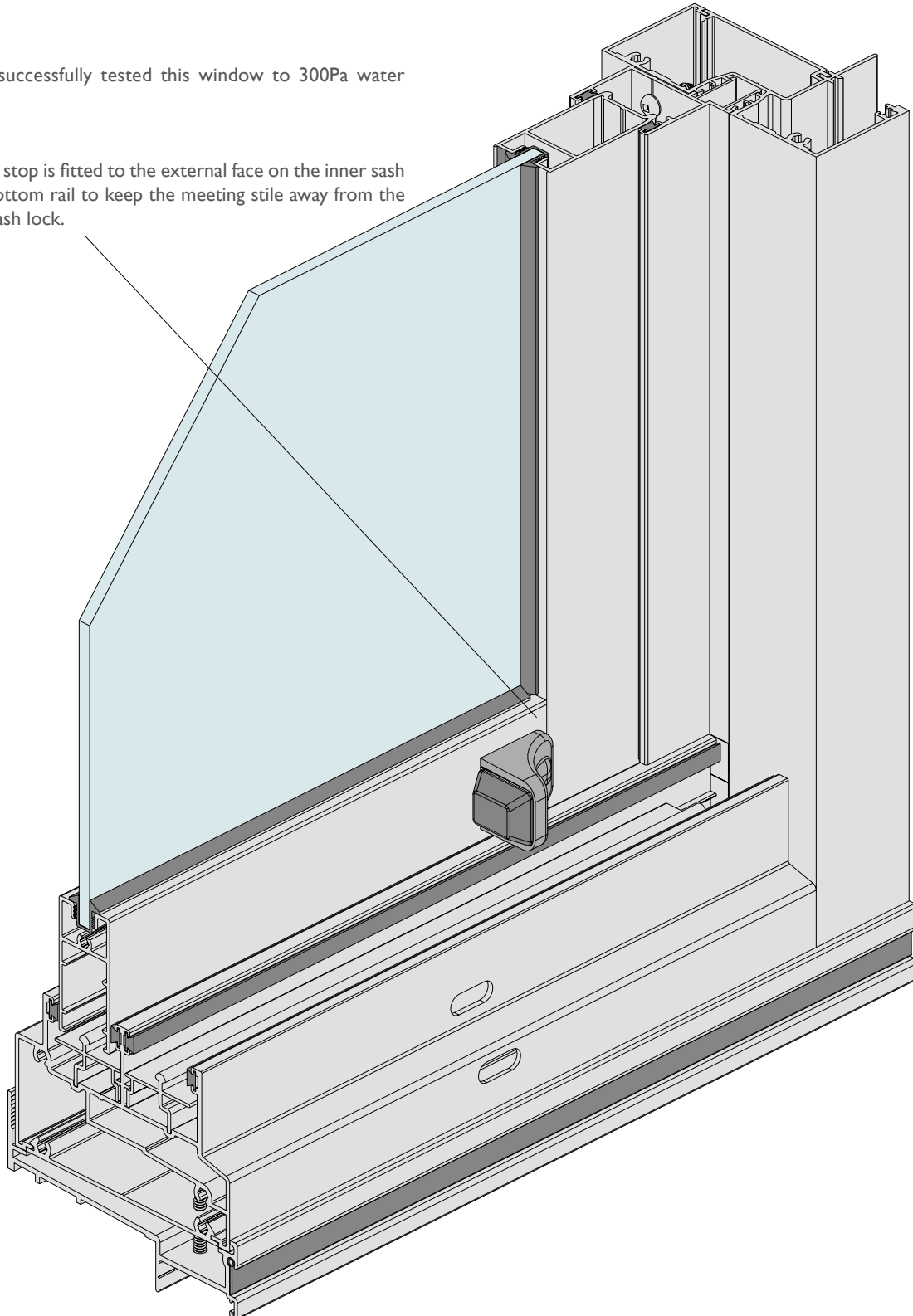
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'SS' TYPE WINDOWS

We have successfully tested this window to 300Pa water resistance.

The buffer stop is fitted to the external face on the inner sash top and bottom rail to keep the meeting stile away from the external sash lock.



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FLYSCREENING 'SF', 'FS' and 'SFS'

