



Design Features :

This high performance sliding window has been designed to complement our existing high quality product range including: SlideMASTER™ and DUO sliding doors, Bi-fold doors and the new Magnum™ awnings, casements, double-hung and ClearVENT™ sashless double-hung windows.

The window has been tested for compliance with the relevant Australian Standards and achieved a very high water resistance of 450Pa making the product suitable for most applications including multistorey apartments.

Low air infiltration, makes the product suitable for air conditioned buildings.

The extra strong meeting stiles allow large sliding windows to be fabricated in high wind load areas.

Double sash design with the external sash fixed.

Frame, mullion and transom have a soft 2mm internal radius.

Series 602 has a more squared off appearance when compared to Series 601.

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 or FSSF) with and without highlights/lowlights.

The window is compatible with the high performance Magnum™ awnings, casements, double-hung and ClearVENT™ sashless double-hung windows. A large range of snap couplers allow these windows to be joined at 90°, 135° and 180° without unsightly rivets or screws.

These couplers would also allow this window to couple to Bi-fold windows, Bi-fold doors, French doors, Sliding doors and DUO sliding doors, refer section 60.

Sliders can be fitted with surface or mortice deadlocks.

Sashes run on heavy duty wheel carriages.

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

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

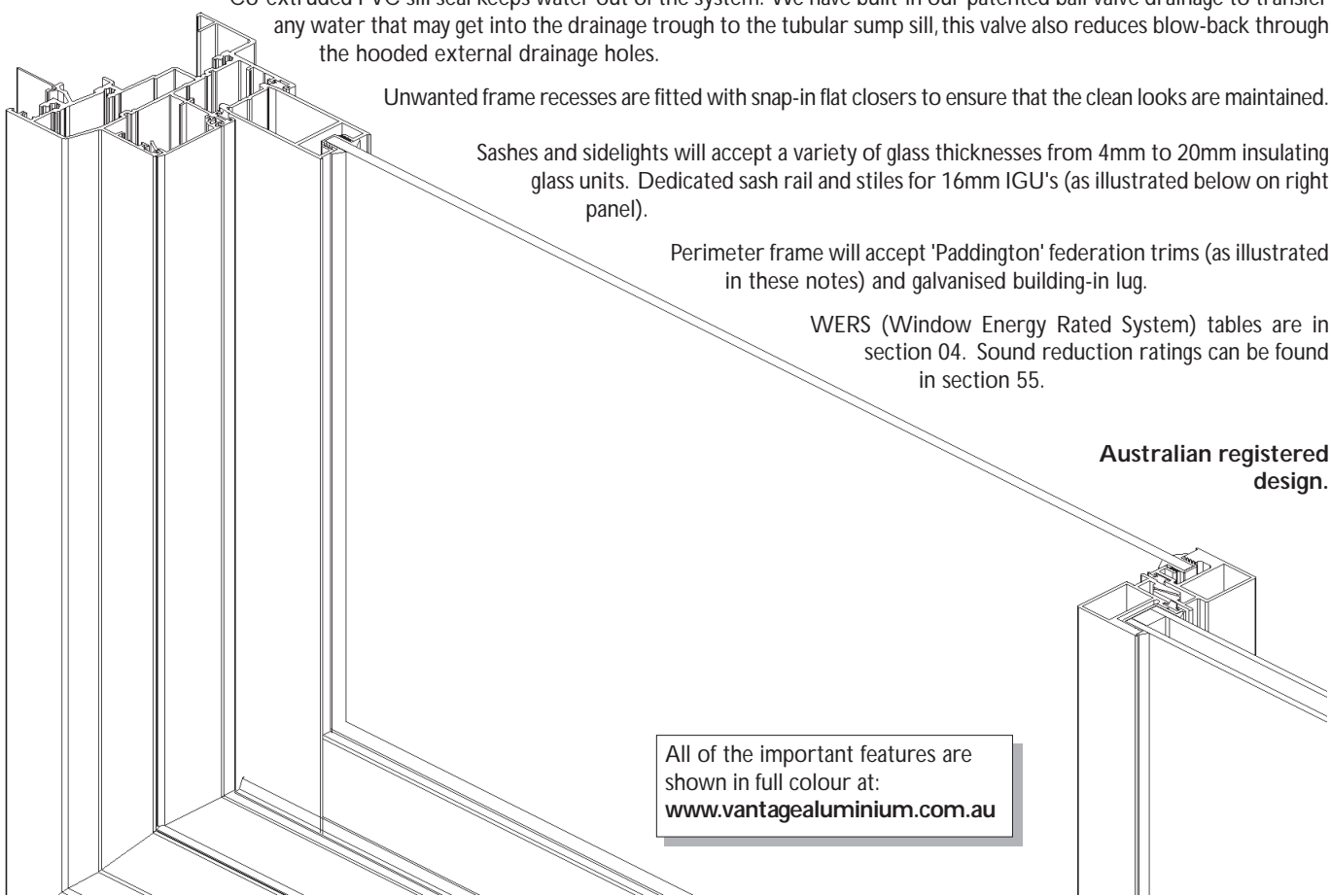
Sashes and sidelights will accept a variety of glass thicknesses from 4mm to 20mm insulating glass units. Dedicated sash rail and stiles for 16mm IGU's (as illustrated below on right panel).

Perimeter frame will accept 'Paddington' federation trims (as illustrated in these notes) and galvanised building-in lug.

WERS (Window Energy Rated System) tables are in section 04. Sound reduction ratings can be found in section 55.

Australian registered design.

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



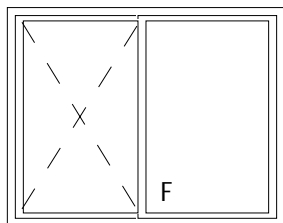
Architectural Information

Series 602 Magnum™ Sliding Window

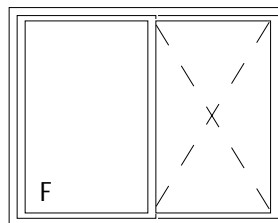
Window Options



This window system allows you to fabricate sliding windows with fixed highlights and/or lowlights. The fixed sidelight sash allows both panels to be installed on site, refer cross sectional details.



type 'SF'
 Maximum recommended size
 1950 x 2756 (without transom) *
 2100 x 2110 (without transom) *



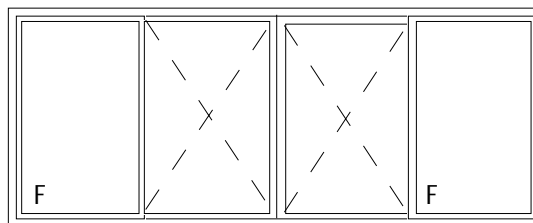
type 'FS'

Sliding windows can be fabricated in four basic configurations 'SF', 'FS', 'SFS' and 'FSSF'.

The overall size of non-transom windows will be limited by strength of meeting stiles and glass. When thick (heavy) glass is selected the sash weight will also restrict the sash size.



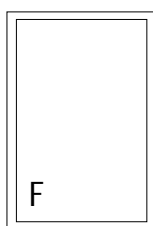
type 'SFS'
 Maximum recommended size
 1800 x 3610 (without transom) *



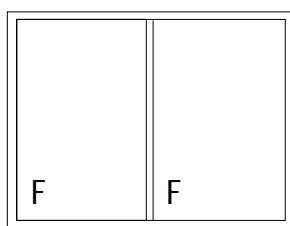
type 'FSSF'
 Maximum recommended size
 1600 x 4800 (without transom) *

*** Note**

The maximum sizes will be restricted by meeting stile and glass strength as the design wind load increases. Full height windows (2100mm) are basically sliding doors and would be glazed accordingly. On these full height windows you could use the heavier meeting stiles from Series 541 sliding door to get higher wind loads.



type 'F'

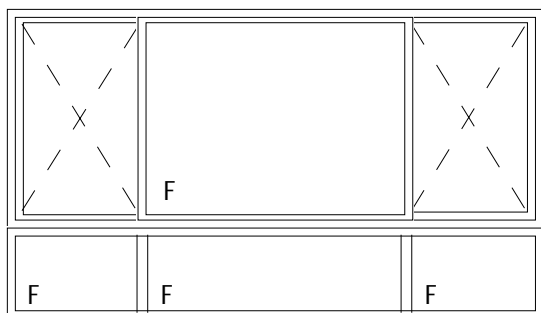


type 'FF'
 typical multiple fixed window illustrated.

Pure fixed windows can be fabricated as a single or multiple unit with one piece tubular mullion/s.

Full height fixed lights (without transoms) that can be mistaken for door openings are to be glazed with safety glass, refer AS1288 Section 5. If in doubt as to whether a window requires safety glass always err on the side of safety.

When lowlights/highlights are included the window would be joined with an 'I' coupler as shown on following page.



Combination windows with transom can be created using 'I' coupler.

Important Note:

In elevated situations (above ground level) the position of the transom should be considered with safety in mind. In some areas there may be regulations covering the height of the transom above floor level. refer AS1288 Section 5 for lowlight glass minimum requirements.



Architectural Information

Series 602 Magnum™ Sliding Window Window Coupling Options

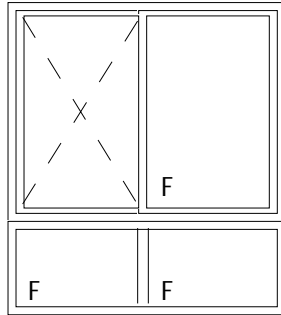
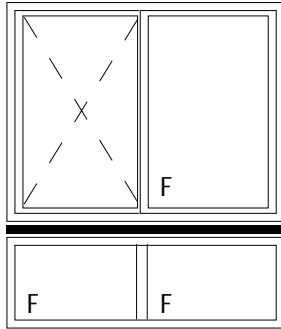
Page: **17.3**

Date: Aug 03

Replaces:

Scale: Half full size

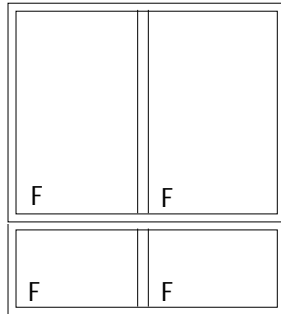
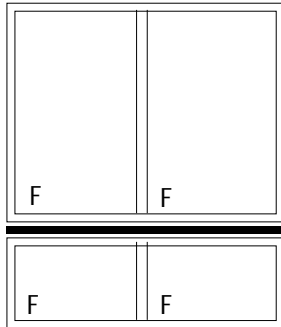
Pure fixed windows including lowlights and highlights can be fabricated out of the 102mm awning frame sections (72821 or 72822), refer section 36.



Transom Coupler

Series 602 sliding windows are joined to lowlights/highlights with 'I' coupler (42030).

On Series 602 the fixed light can be fabricated out of the awning frames (72821 or 72822), refer section 36. These two frames would also allow Series 616 awnings to be fitted over/under sliding windows.



Pure Fixed Windows

Transom fixed windows in Series 602 are assembled to match the sliding window with the coupler running through the transom joint.

Fixed lights can be fabricated in one large window with mullions running through in 102 or 50mm framing, refer Series 616 (section 36) for frame options.

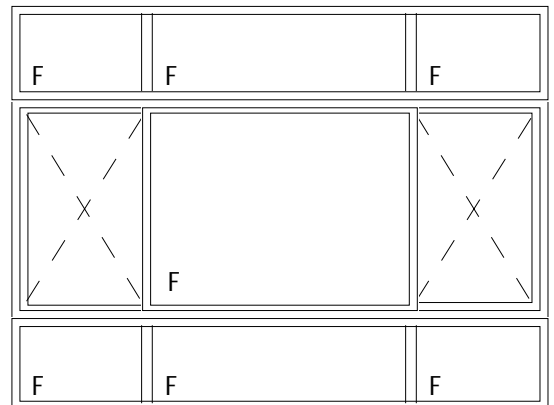
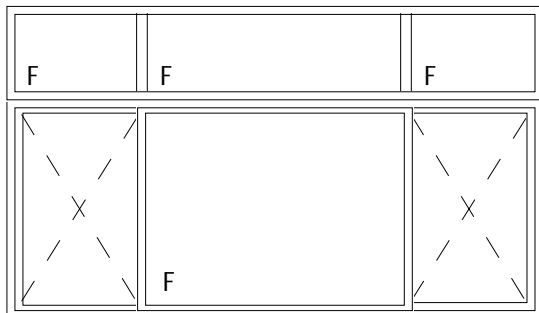
Vertical Coupling

Sliding windows with highlights and/or lowlights can only be coupled vertically to another window/door using the heavy tubular coupler (42027), refer section 10.

Sliders without highlights and/or lowlights can be coupled vertically with the 'I' coupler (42030).

The 'I' coupler allows us to clip this sliding window to Series 548 French and Bi-fold doors, Series 541 sliding doors, Series 543 DUO sliding doors, Series 546 Bi-fold windows, Series 525 louvre windows, Series 614 ClearVENT™ windows and Series 616 Magnum™ awning windows.

Series 602 sliding windows will also clip to the 135° bay (42026) and 90° corner (42022) couplers, refer section 10.



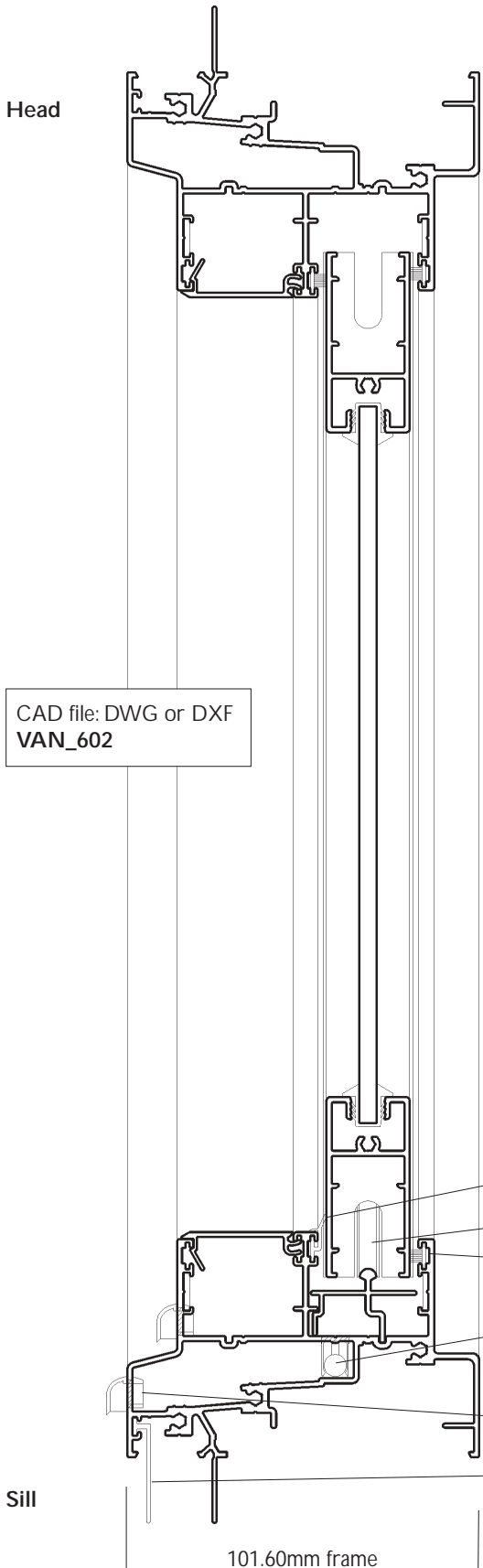
Highlights

Series 602 sliding windows can also be fitted with fixed highlights and/or lowlights. It would also be possible to fabricate sliders over sliders.

Architectural Information

Series 602 Magnum™ Sliding Window

Vertical Cross Section - Through Opening Sash



'SF' and 'FS' windows					
Height mm	Width mm		Meeting stile combinations		
			Light	Medium	Heavy
1600	1810	S	1277	1720	2143
		U	2273	2581	3215
1600	2110	S	1136	1520	1893
		U	2008	2280	2840
1600	2410	S	1045	1391	1732
		U	1837	2086	2598
1600	2710	S	991	1311	1633
		U	1732	1967	2450

Table 17.1 Wind Ratings (Pa) for type 'SF' windows

Rating tables for window meeting stiles.

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,

Serviceability rating has been limited to 3000 Pa and
 Ultimate strength rating has been limited to 4500 Pa.

Sound Reduction

We have tested a number of glass combinations in this sliding window.
 Window was fitted with weatherpile seals vertically and horizontally,
 co-extruded PVC seal at sill.

- 4mm Annealed glass 31dB(A) RW31
- 6.38mm Laminated glass 33dB(A) RW33
- 10.38mm Laminated glass 35dB(A) RW35
- 16mm Insulating glass unit 32dB(A) RW32

Go to the SoundOUT section 55 for other options.



Thermal Transmission WERS

This window has been WERS rated. The star ratings for heating and cooling climates with various glass options can be found in the WERS section 04.

Co-extruded PVC sill seal.

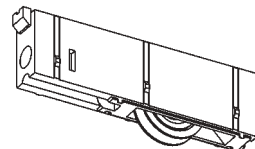
Heavy duty 38mm diameter wheels.

Weatherpile seal.

Patented drainage valves.

Nylon drainage hoods.

PVC sill flap closes off the gap between window and sill brick.





Architectural Information

Series 602 Magnum™ Sliding Window

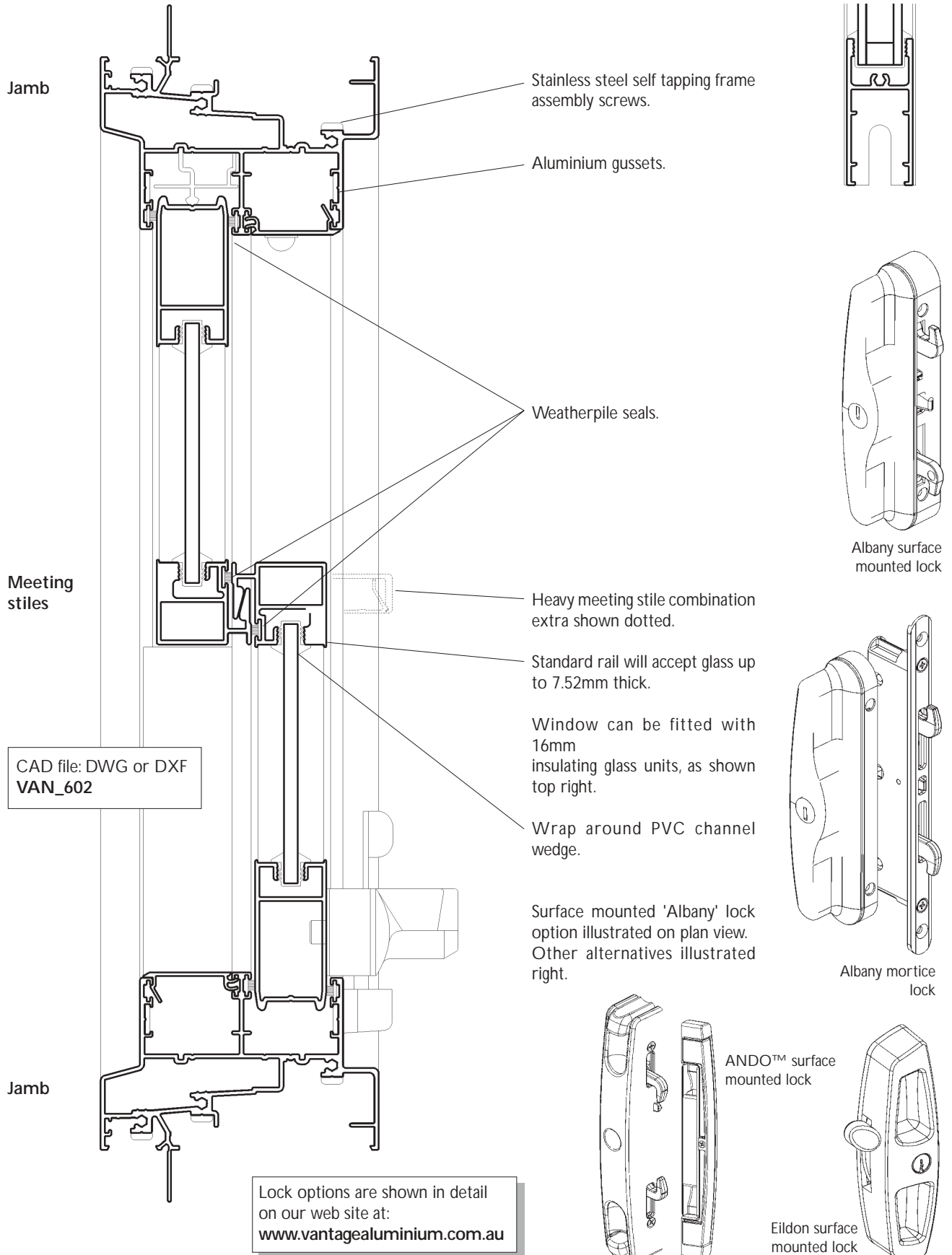
Horizontal Cross Section

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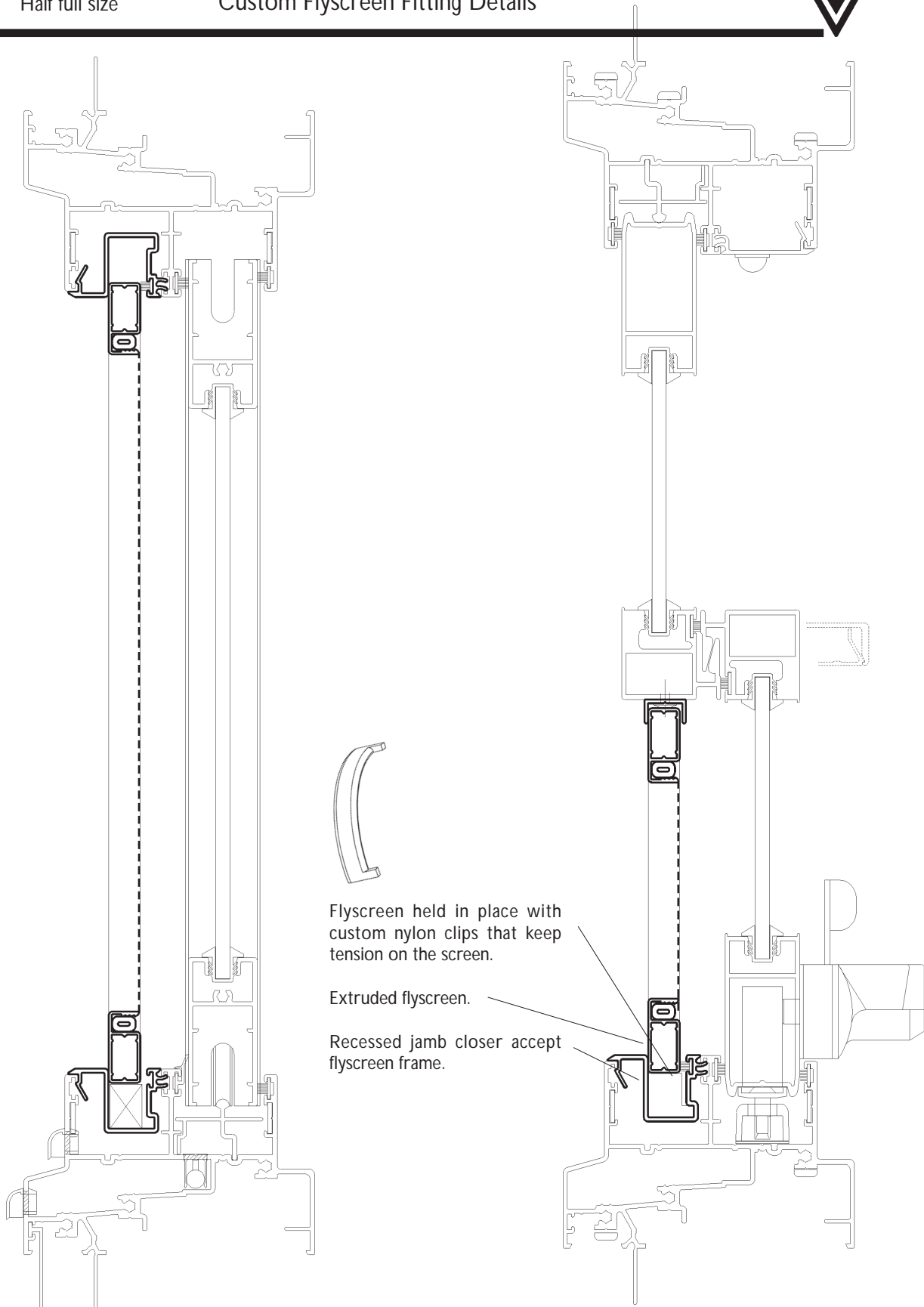
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Architectural Information

Series 602 Magnum™ Sliding Window

Custom Flyscreen Fitting Details



Vertical cross section through flyscreen
 Note how the flat filler has been replaced with channel filler that will accept the flyscreen and the nylon retention clips.

Horizontal cross section through flyscreen
 The channel infills are only used when flyscreens are fitted.



Architectural Information

Series 602 Magnum™ Sliding Window Summary

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24mm Wide rails with 26mm wide stiles are strong enough for most locations in Australia.

Standard sashes will accept glass from 4mm to 7.52mm thick.

We also have dedicated double glazing sash members that will accept insulating glass units up to 16mm thick.

Deep bottom rail accept very large diameter wheels to ensure smooth slide.

Co-extruded PVC sill seal keeps water out of the system. The window achieved a very high water resistance of 450Pa.

Patented ball valve reduce blow-back and again contributes the overall water resistance of this product.

Sump sill allows any water that should get into the running tracks to be drained down through the patented ball valve and out of the window.

This frame is squared off when compared to Series 601. The flat snap-in fillers close off all unwanted recesses.

One hooded drain hole each end of sill.

For building-in details go to our web site:
www.vantagealuminium.com.au
For CAD drawings go to the Vantage CD or contact us at:
info@vantagealuminium.com.au

CAD file: DWG or DXF
VAN_602

Heavy duty 102mm wide frame matches other Vantage Magnum™ windows, sliding and folding doors.

The window frame is designed to be built into cavity brick as shown on this page or brick veneer construction.

A large range of couplers, trims and lugs ensure that the product can be fitted cleanly into most situations.

Architectural Information

Magnum™ Sashes in Shopfront

Architectural Commercial Sliding Window



Alternative Commercial Sliding Window

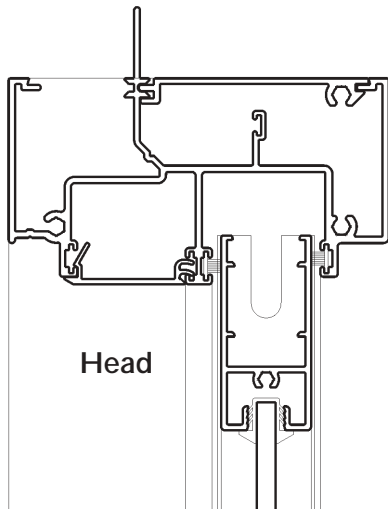
If you are looking for a bolder frame consider the AWS Commercial sliding window Series 462.

Features overview:

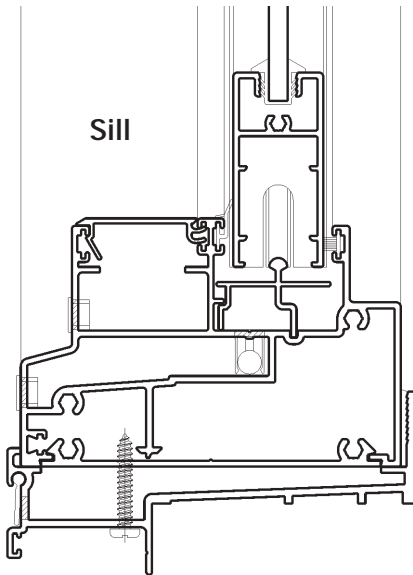
- Bold square commercial frame with built-in nailing fin.
- Nailing fin sub-sill is standard.
- Compatible with conventional CentreGLAZE™ shopfront framing.

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

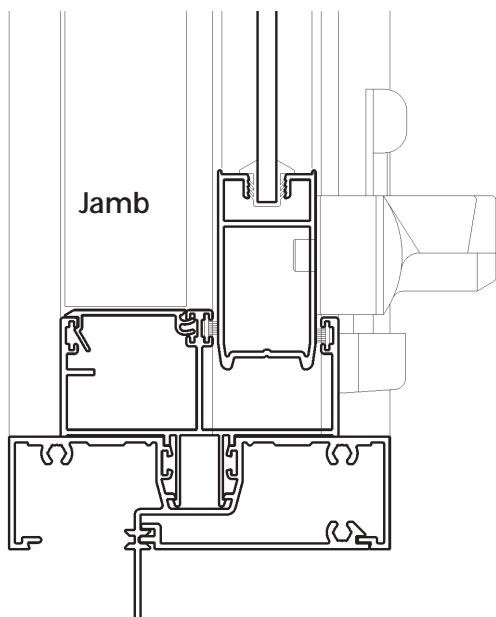
Australian Registered Design.



Head

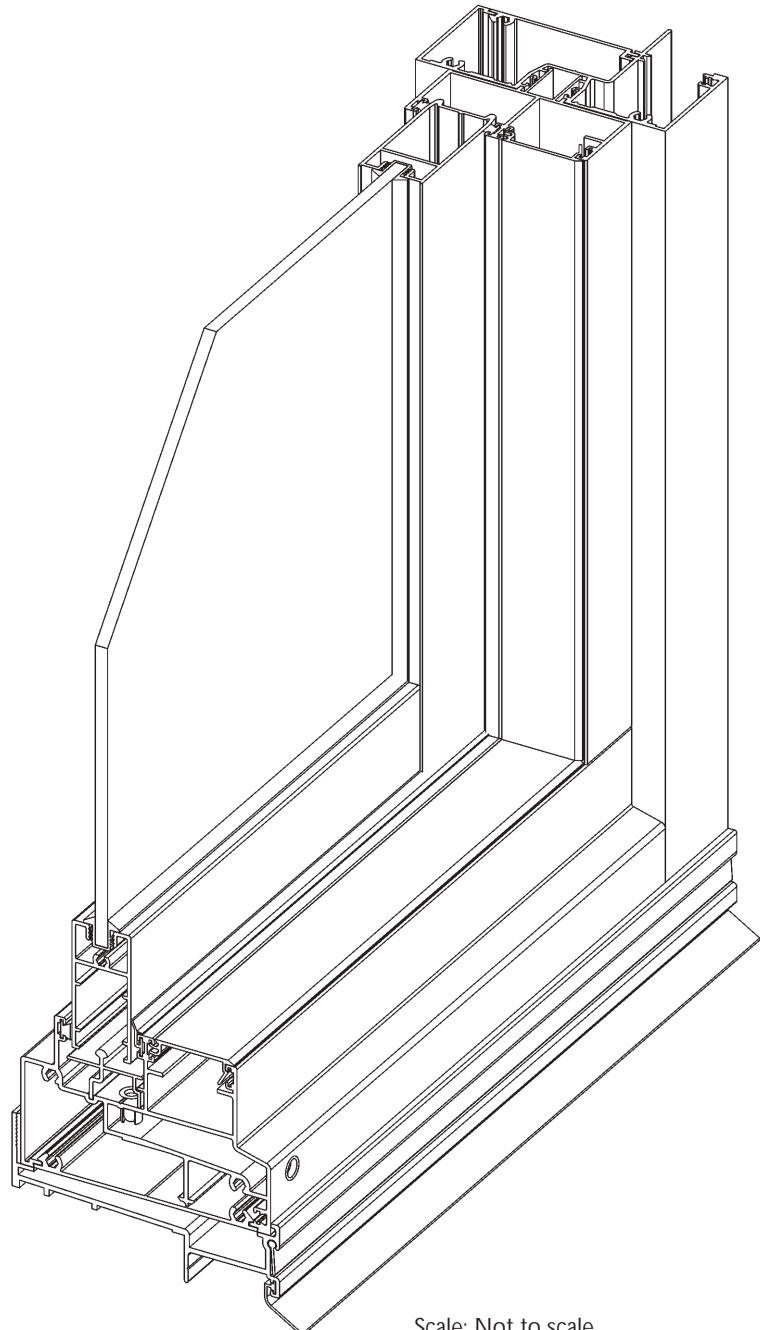


Sill



Jamb

Scale: Half full size



Scale: Not to scale



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17.8	Alternative upmarket window.

Series 602 Sliding window internal view
(Not to scale)

