



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.

Very 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.

Clean splayed and rounded lines for improved visual appearance.

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

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

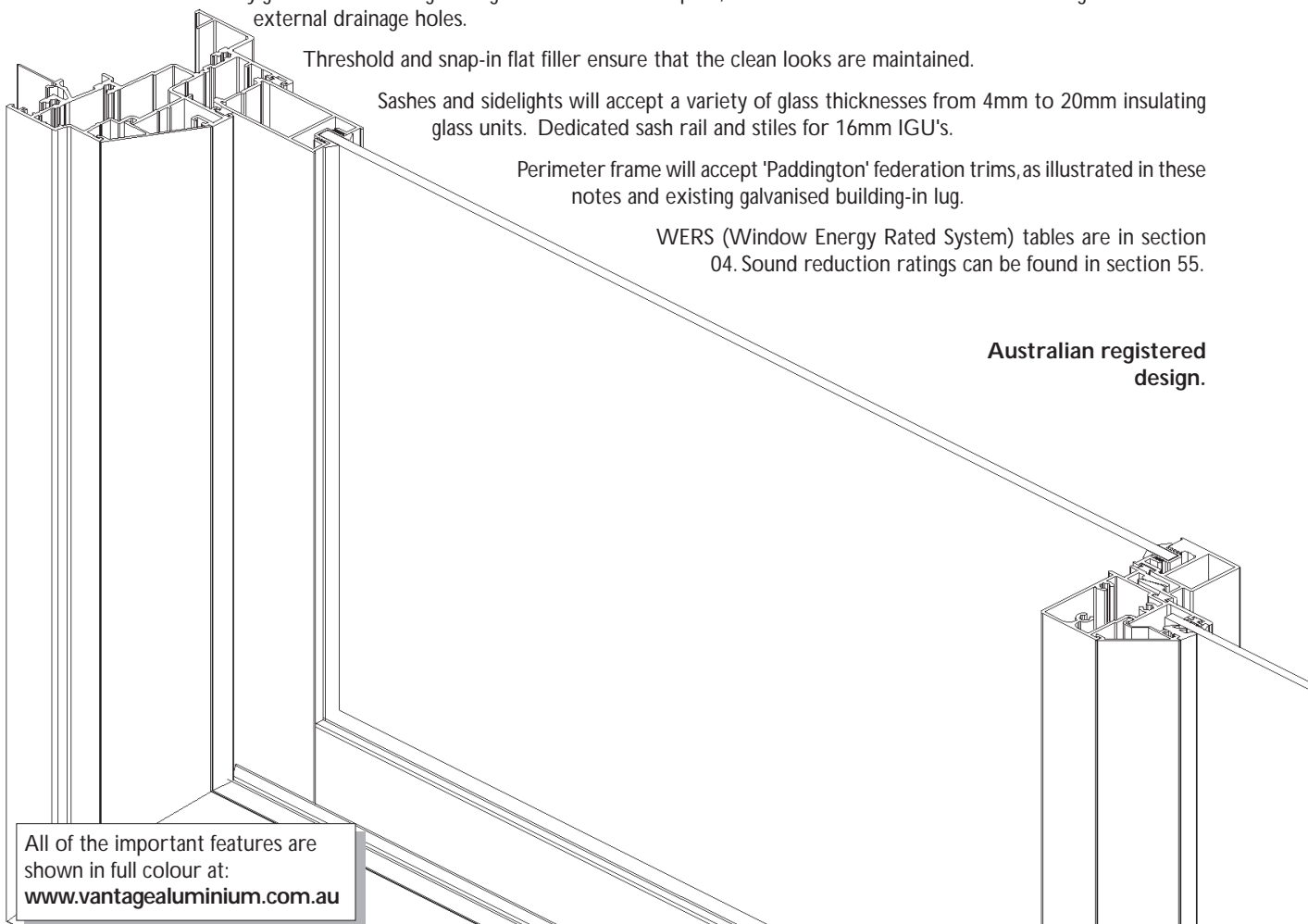
The window is compatible with the high performance Magnum™ awnings, casements and double-hung and ClearVENT™ sashless double-hung windows. A large range of snap couplers allow these windows to be joined at 90°, 135° and 180° without unsightly rivets or screws, refer section 60 for detail on couplers and trims.

These couplers would also allow this window to couple to Bi-fold windows, Bi-fold doors, French doors, Sliding doors, DUO sliding doors and other Magnum™ windows.

Opening sashes can be fitted with surface or mortice deadlocks.

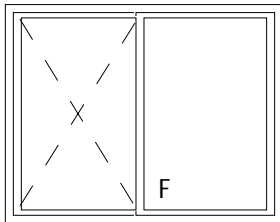
Sashes run on large diameter, heavy duty wheel carriages, including double bogey for very heavy sashes.

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.

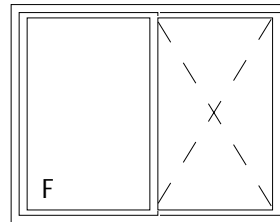




This window system allows you to fabricate sliding windows with fixed highlights and/or lowlights. The fixed sidelight is externally beaded, refer cross sectional details.



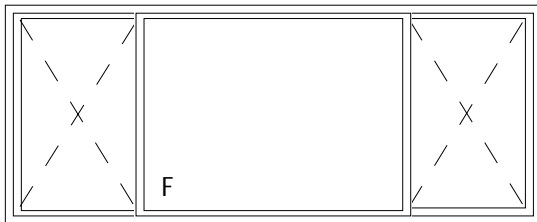
type 'SF'
 Maximum recommended size
 2050 x 2756 (without transom) *
 2100 x 2500 (without transom) *



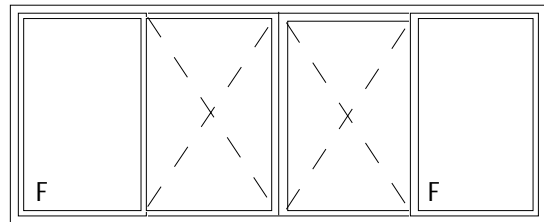
type 'FS'

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.



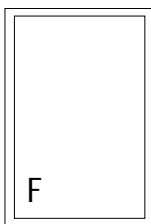
type 'SFS'
 Maximum recommended size
 1800 x 3610 (without transom) *



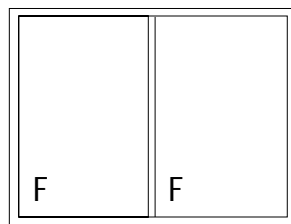
type 'FSSF'
 Maximum recommended size
 1600 x 4800 (without transom) *

*** 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'

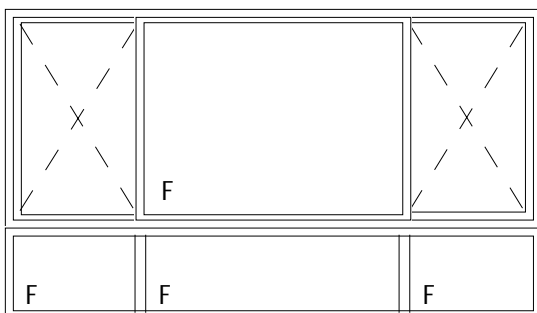


type 'FF'
 typical multiple fixed window illustrated.

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.



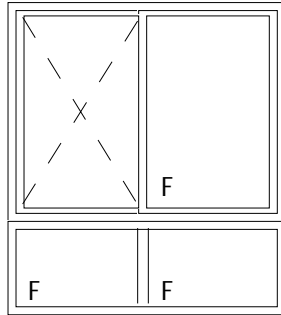
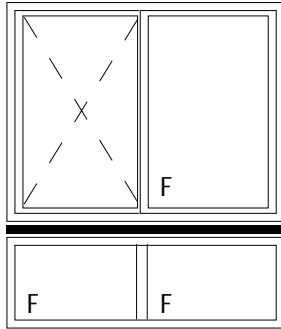
Combination windows with transom can be created using 'I' coupler.

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.



Pure fixed windows can be fabricated to match the sliding window including using the sliding window perimeter frame. For other fixed light options refer awning window Series 616.

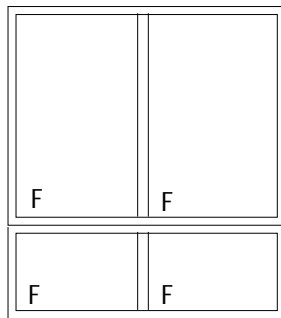
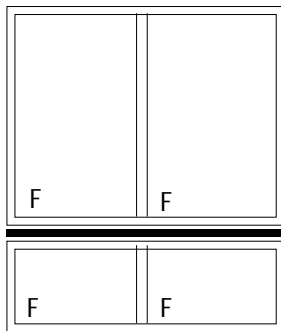


Transom Coupler

Series 601 sliding windows are joined to lowlights/highlights with 'I' coupler (42030).

On Series 601 the fixed lights can be fabricated from the sliding window perimeter frame for a perfect match with the adjoining slider frame. alternatively

Fixed frames can also be fabricated out of the awning frames (72821 or 72822). These two frames would also allow Series 616 awnings to be fitted over/under sliding windows.



Pure Fixed Windows

Series 601 fixed windows can be fabricated from the sliding window perimeter frame or one of the two awning frames (72821 or 72822).

Transom fixed windows in Series 601 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.

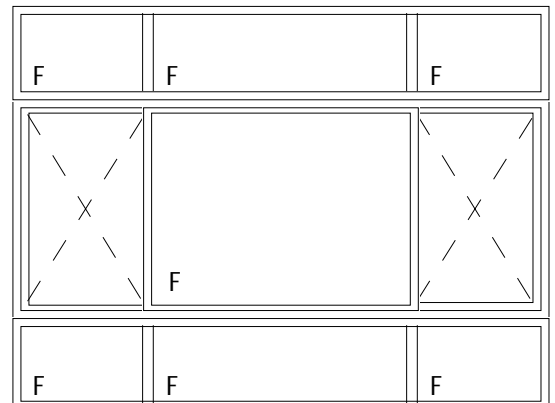
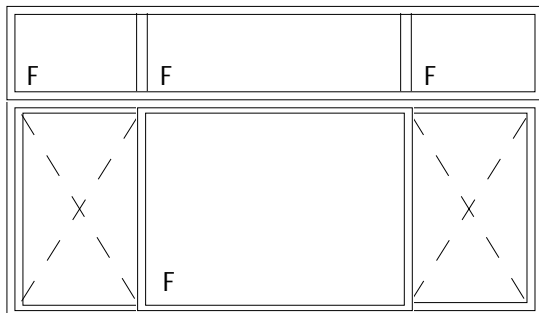
Vertical Coupling

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 any 102mm product including 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 601 sliding windows will also clip to the 135° bay (42026) and 90° corner (42022) couplers, refer section 10.



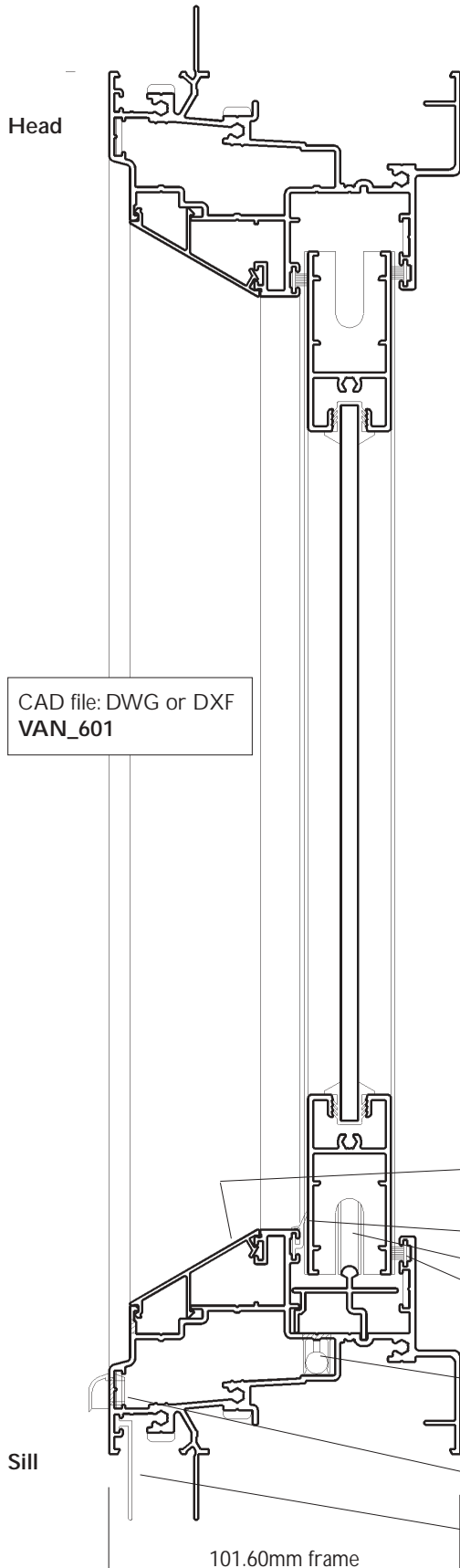
Highlights

Series 601 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 601 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	L/150 S	1826	2239	2634
		U	2740	3358	3952
1600	2110	L/150 S	1614	1978	2328
		U	2421	2967	3491
1600	2410	L/150 S	1476	1810	2129
		U	2214	2715	3194
1600	2710	L/150 S	1392	1706	2008
		U	2088	2560	3012

Table 16.1 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.

Splayed threshold sheds water and dust off the window.

Co-extruded PVC sill seal.

Heavy duty 38mm diameter wheels.

Weatherpile seal.

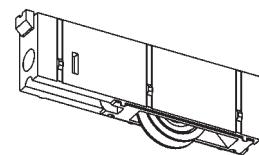
Patented drainage valves.



Nylon drainage hoods.



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





Architectural Information

Series 601 Magnum™ Sliding Window

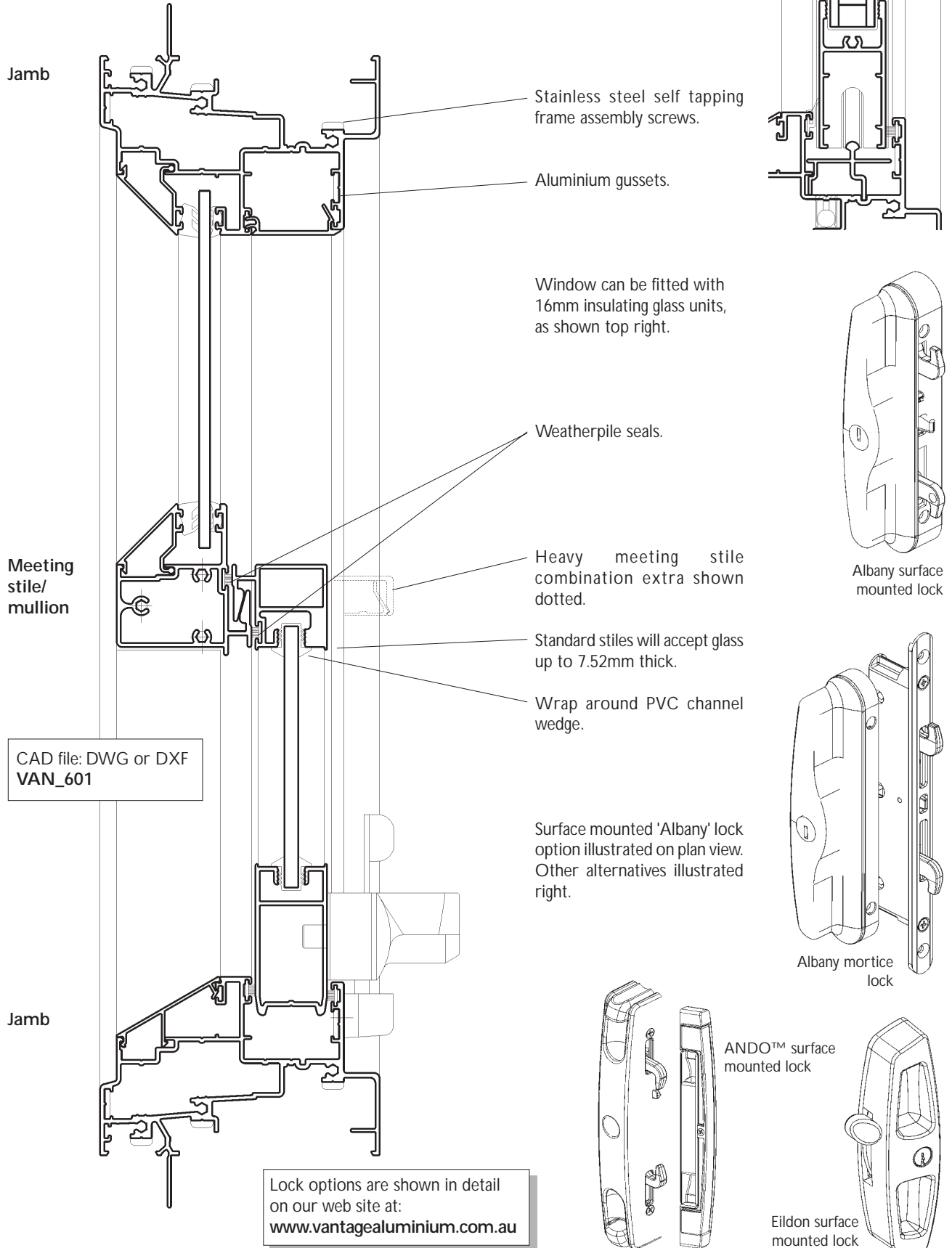
Horizontal Cross Section

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Date: May 06

Replaces: Aug 03

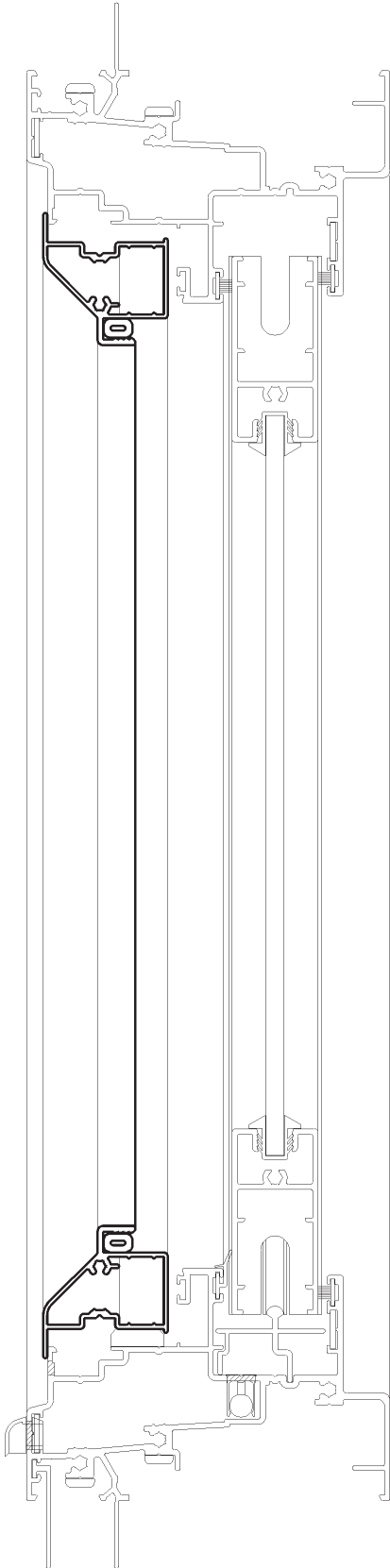
Scale: Half full size



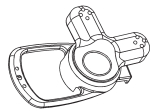
Architectural Information

Series 601 Magnum™ Sliding Window

Custom Flyscreen Fitting Details

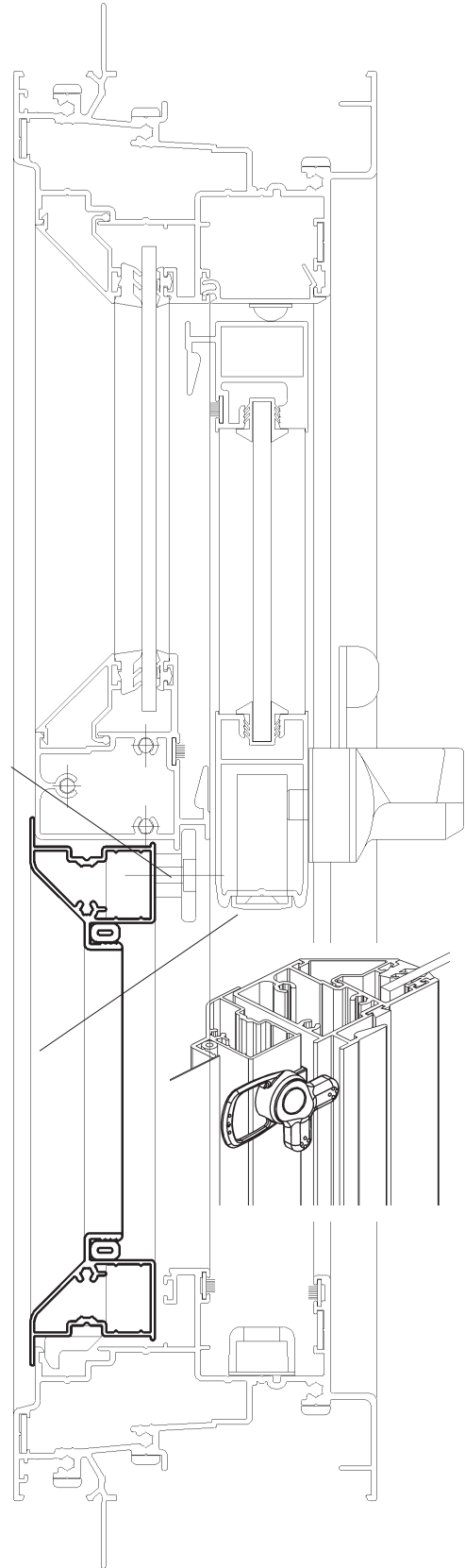


Vertical cross section through custom flyscreen
Note how the splayed flyscreen matches the splayed fixed sidelights.



Flyscreen held in place with custom nylon turn buckle/finger grip.

This detail also shows the optional mortice lock.
For more details go to our web site:
www.vantagealuminium.com.au



Horizontal cross section through flyscreen
The screen is retained by rotating turn buckle/finger pull at mullion location.



Architectural Information

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Series 601 Magnum™ Sliding Window

Date: Oct 04

Summary

Replaces: Aug 03

Scale: Half full size

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 accepts 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.

When no flyscreens are fitted in the frame the screen recess is closed off with snap-in splayed filler. This filler guides dust and water off the window and significantly improves the appearance when compared to a typical sliding window.

One hooded drain hole each end of sill.

CAD file: DWG or DXF
VAN_601

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.

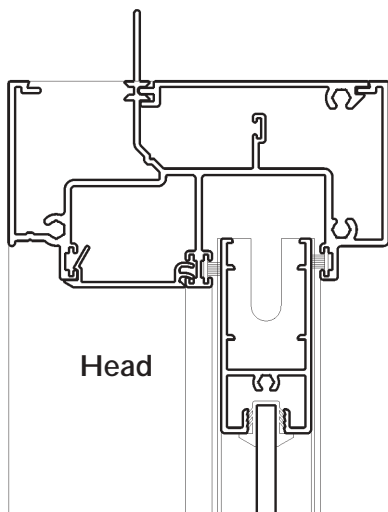
For building-in details go to our web site:
www.vantagealuminium.com.au
For CAD drawings go to the Vantage CD or contact us at:
info@vantagealuminium.com.au

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Date: May 06
Replaces: Oct 04
Scale: Noted below

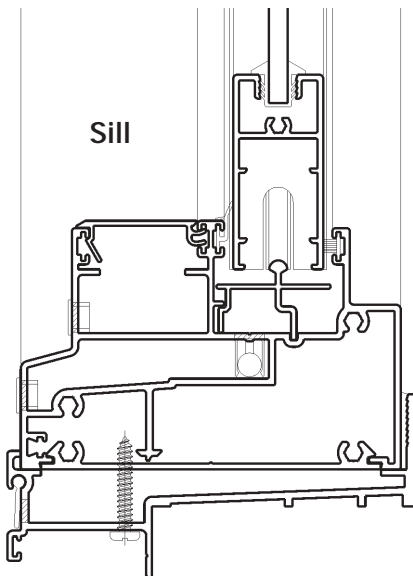
Architectural Information

Magnum™ Sashes in Shopfront

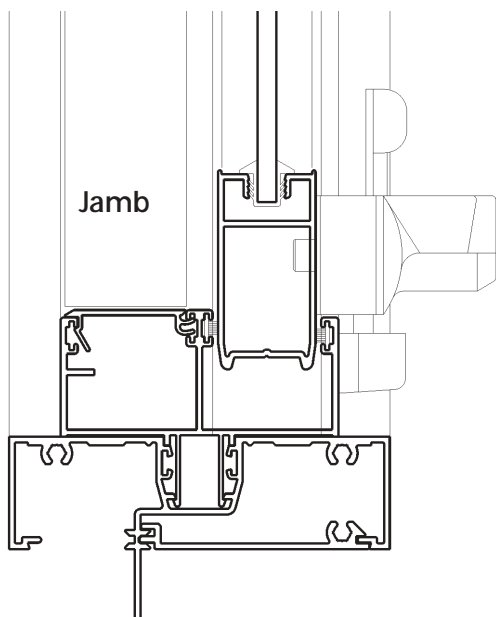
Architectural Commercial Sliding Window



Head



Sill



Jamb

Scale: Half full size

Alternative Commercial Sliding Window

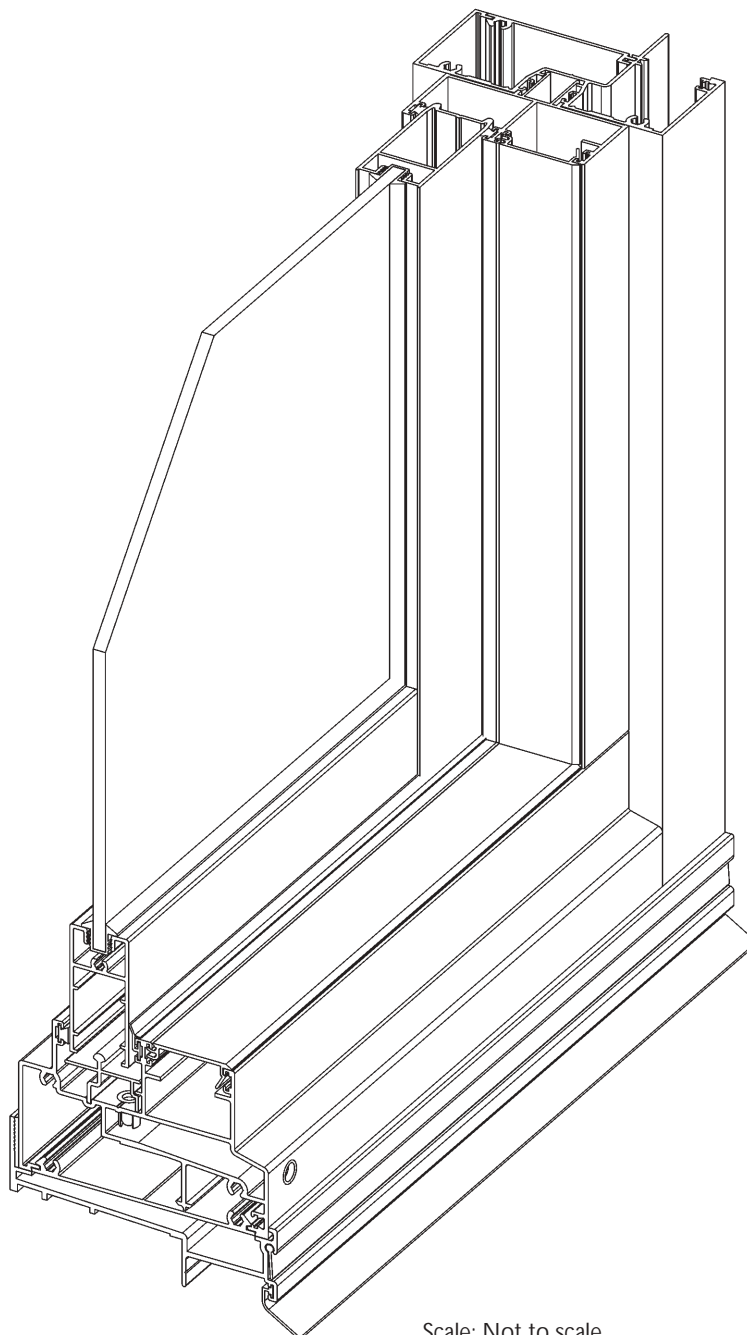
If you are looking for a bolder frame consider the AWS Commercial sliding window Series 462.

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.



Scale: Not to scale



Architectural Information

Series 601 Magnum™ Sliding Window

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16.4	Vertical cross section - through opening sash.
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16.6	Custom flyscreen fitting details.
16.7	Summary.
16.8	Alternative upmarket window.

Series 601 Sliding window internal view
(Not to scale)

