

Series 601
MAGNUM™ Sliding Window



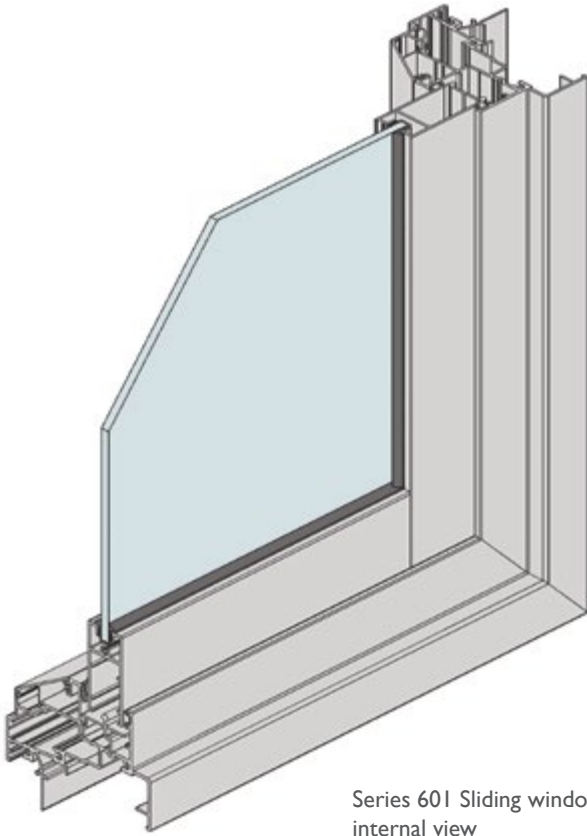
Photo courtesy of David Reid Homes. Windows supplied by Lifestyle Windows.



Series 601 MAGNUM™ Sliding Window

DATE: FEB 21
REPLACES: NOV 09
SCALE: NOT TO SCALE

KEY FEATURES / PERFORMANCE CHARACTERISTICS



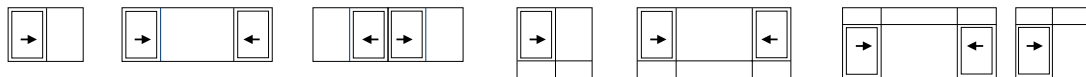
Series 601 Sliding window
internal view

- 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 multi-storey 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.
- 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.

Maximum Panel Height*	1946mm
Maximum Panel Width*	1356mm
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

Acoustic performance of the Series 601 MAGNUM™ sliding window has been tested with a number of glass combinations. During testing the window was fitted with weatherpile seals vertically and horizontally, co-extruded PVC seal at sill.

Glass Description		
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

Secondary glazed sliding window will give significantly higher numbers



WERS RATINGS

Single Glazed

Glass Description	COOLING	HEATING	Uw	SHGCw	Tvw	Inf
4mm Clear	22%	11%	6.4	0.63	0.64	1.75
5mm Clear	22%	12%	6.4	0.62	0.64	1.75
5mm Grey	35%	4%	6.4	0.46	0.36	1.75
5mm EverGreen	38%	3%	6.4	0.43	0.53	1.75
6.38 Laminate	26%	12%	6.3	0.59	0.64	1.75
6.38mm Solace	40%	27%	4.8	0.51	0.59	1.75
6.38mm Comfort Plus	48%	21%	4.8	0.39	0.42	1.75

HOW TO SPECIFY

SYSTEM NAME

Vantage Series 601 MAGNUM™
Sliding Window

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 (Uw & SHGC)

Specify acoustic performance where applicable (RW)

HARDWARE

Refer to hardware selection guide for compatible options



2D & 3D CAD FILES AVAILABLE

GO TO: www.specifyaws.com.au



MORE INFORMATION

For the latest updates regarding this product visit our website
www.vantagewindows.com.au



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 windows are the same. Sure they open and close - but if you want your windows to perform and match the architectural appearance you are looking for there are some things you should check/compare when choosing your supplier.

FEATURE	Series 601	Opposition
Does the window comply with the relevant Australian Standards? All windows should comply but it pays to ask for written proof.	YES	
Designed for very exposed locations. Series 601 has a 450Pa water resistance as standard. This makes the product suitable for very exposed locations.	YES	
Suitable for air-conditioned buildings. With a very low air infiltration this sliding window complies with the air-conditioning requirements of the Australian Standard.	YES	
Wide frame with bold sashes. 102mm wide perimeter frame. 26mm thick sashes.	YES	
Can I make large heavy sliding sashes and still comply? We can make sliding sashes the size of door panels and still comply. Our sashes and matching fixed sidelight will accept glass from 4mm to 10.38mm single glaze and 16mm to 20mm insulating glass units.	YES	
Large range of locking options. We offer surface mounted or mortice type locks for this window. Locks can be colour matched to the sash finish.	YES	
Are the sliding sash wheels strong enough to carry the heavy glass. We use large diameter door wheels in this window. On very heavy sashes we can also fit double bogey wheels that will carry sashes up to 100Kg.	YES	
Condensation on fixed lowlights can be drained back to the outside. In colder areas glass can condensate and produce pools of water on the sill members, if this moisture can't be drained back to the outside staining may occur on timber linings. The proprietary Vantage drainage system transfers moisture back to the outside. Specify condensation drainage when ordering.	YES	
Clean flyscreen installation. Flyscreens have been custom designed for this window with splayed screen to match adjoining splayed fixed sidelight beads. Flyscreens held in place with non rusting custom nylon clips.	YES	
No flyscreen option. There will be applications where you want this window and you don't want flyscreens, in these cases you also won't want recesses to accept screens.	YES	
Window can be coupled to sliding doors or other windows without visible rivets.	YES	
Rounded internal frame corners where ever possible. The main perimeter frame has 2mm soft internal corner radius. Lowlight mullions also have the same soft internal radius plus they are setback 2mm from the edge like timber windows to give a clean finish. Modern paint finishes don't like sharp corners.	YES	
Paddington federation trim option available. We can clip Paddington federation trims straight to the main frame. These trims can be colour matched or coloured to contrast with the main frame.	YES	
Compatible products. MAGNUM™ 601 sliding window has been designed to match and couple with a large range of other MAGNUM™ products. Refer Installation section for more information.	YES	

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DESIGN FEATURES:

This high performance sliding window has been designed to complement our existing high quality product range including: SlideMASTER™ and MAGNUM™ sliding doors, Bi-fold doors and the 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.

A large range of snap couplers allow these windows to be joined at 90°, 135° and 180° without unsightly rivets or screws. Refer Installation section for more information. These couplers would also allow this window to couple to Bi-fold windows, Bi-fold doors, French doors, Sliding doors, and other MAGNUM™ windows

Opening sashes can be fitted with surface or mortice deadlocks.

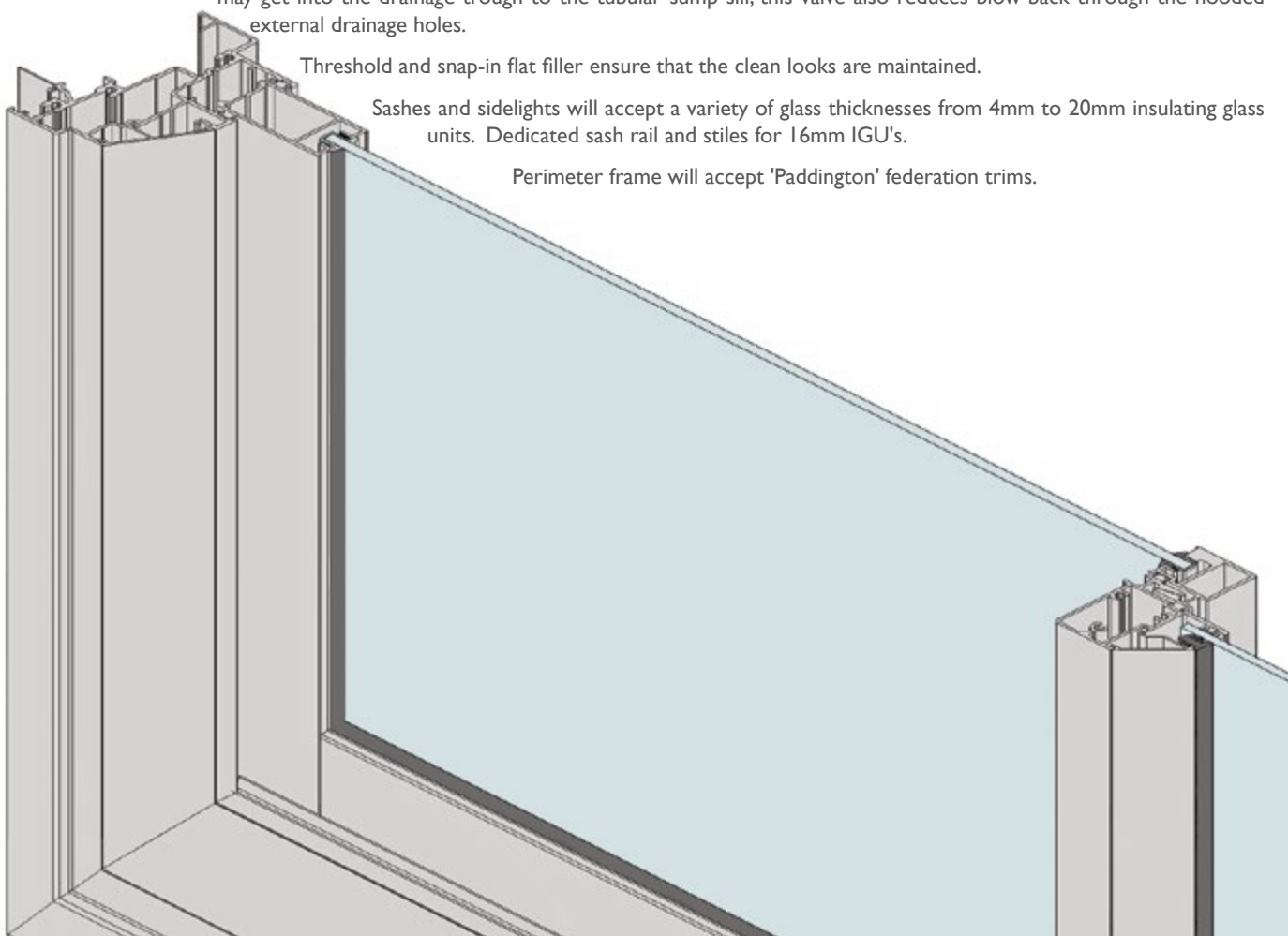
Sashes run on large diameter, heavy duty wheel carriages, including double bogey for very heavy sashes.

Co-extruded PVC sill seal keeps water out of the system. We have built-in our proprietary 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.

Threshold and snap-in flat filler 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.

Perimeter frame will accept 'Paddington' federation trims.

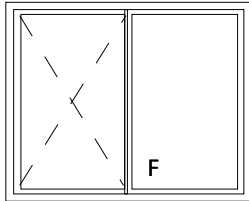


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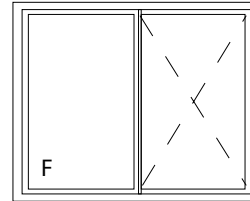
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WINDOW OPTIONS

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.



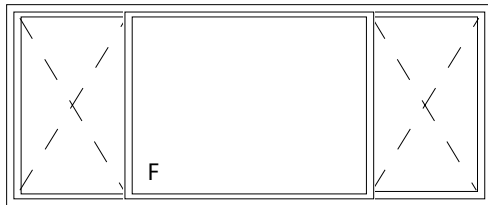
type '**SF**'
Maximum recommended size
2050 x 2756 (without transom) *
2100 x 2500 (without transom) *



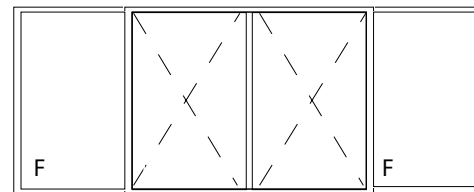
type '**FS**'

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.



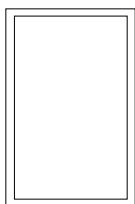
type '**SFS**'
Maximum recommended size 1800 x 3610 (without transom) *



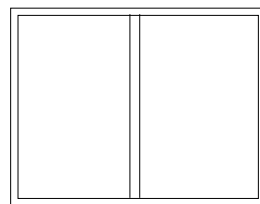
type '**FSSF**'
Maximum recommended size 1600 x 4800 (without transom) *

*** 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**'



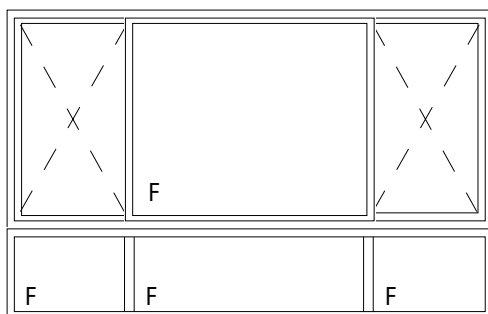
type '**FF**'
typical multiple fixed window illustrated.

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 ASI288.

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.



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.

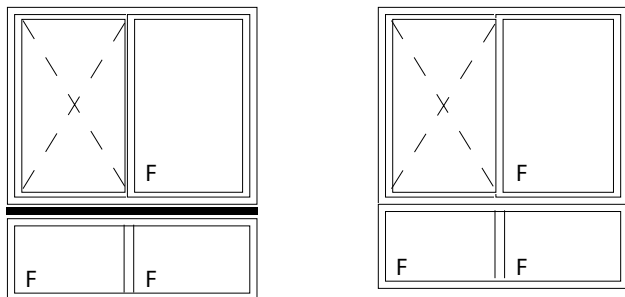
Refer ASI288 for lowlight glass minimum requirements.

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WINDOW COUPLING OPTIONS

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.



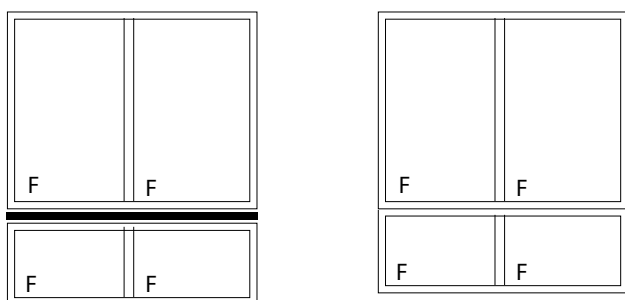
Transom Coupler

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 for frame options.

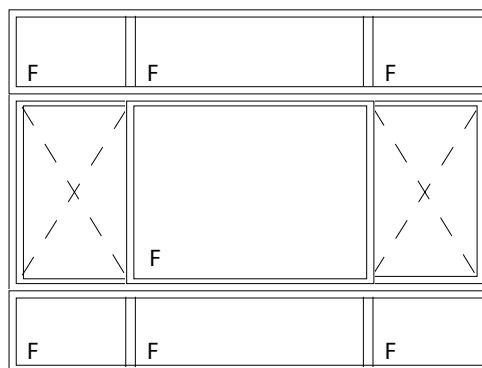
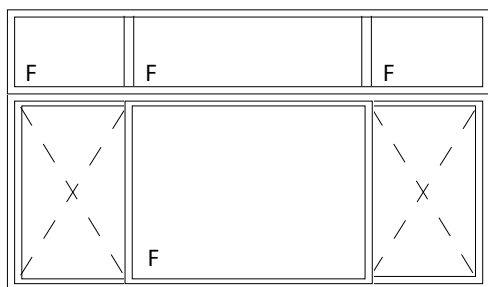
Vertical Coupling

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

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 & 542 Sliding doors, Series 618 MAGNUM™ 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 to installation section for more information.



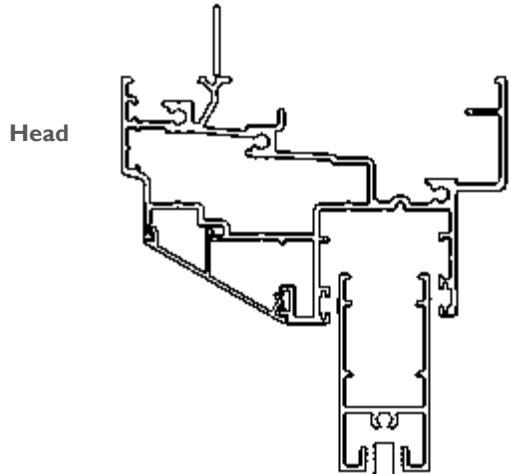
Highlights

Series 601 Sliding windows can also be fitted with fixed highlights and/or lowlights. It would also be possible to fabricate sliders over sliders.

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VERTICAL CROSS SECTION - THROUGH OPENING SASH



'SF' and 'FS' windows			Meeting stile combinations		
Height mm	Width mm		Light	Medium	Heavy
1600	1800	L/150 S	1762	2160	2542
		U	2643	3240	3813
1600	2110	L/150 S	1563	1422	2261
		U	2351	2882	3392
1600	2410	L/150 S	1448	1775	2088
		U	2172	2662	3132
1600	2710	L/150 S	1377	1688	1986
		U	2066	2532	2979

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

Rating tables for window meeting stiles.

S = Serviceability limit state (deflection = L/150).

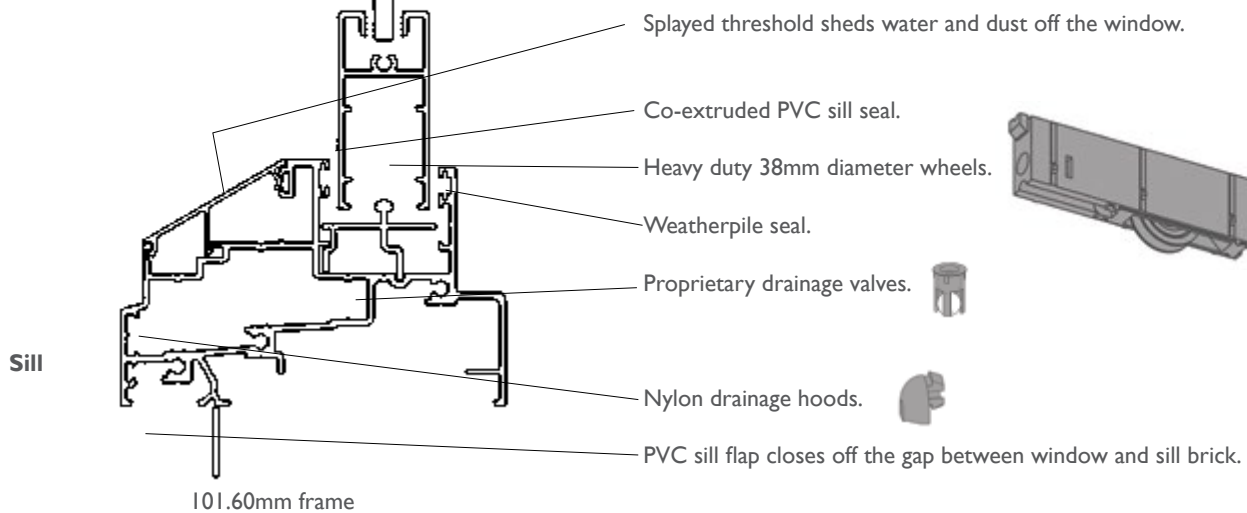
U = Ultimate strength limit state (factored yield strength = 104 MPa).

These tables have been calculated using nominal section properties.

A typical assembly has been tested as per the requirements of AS2047.



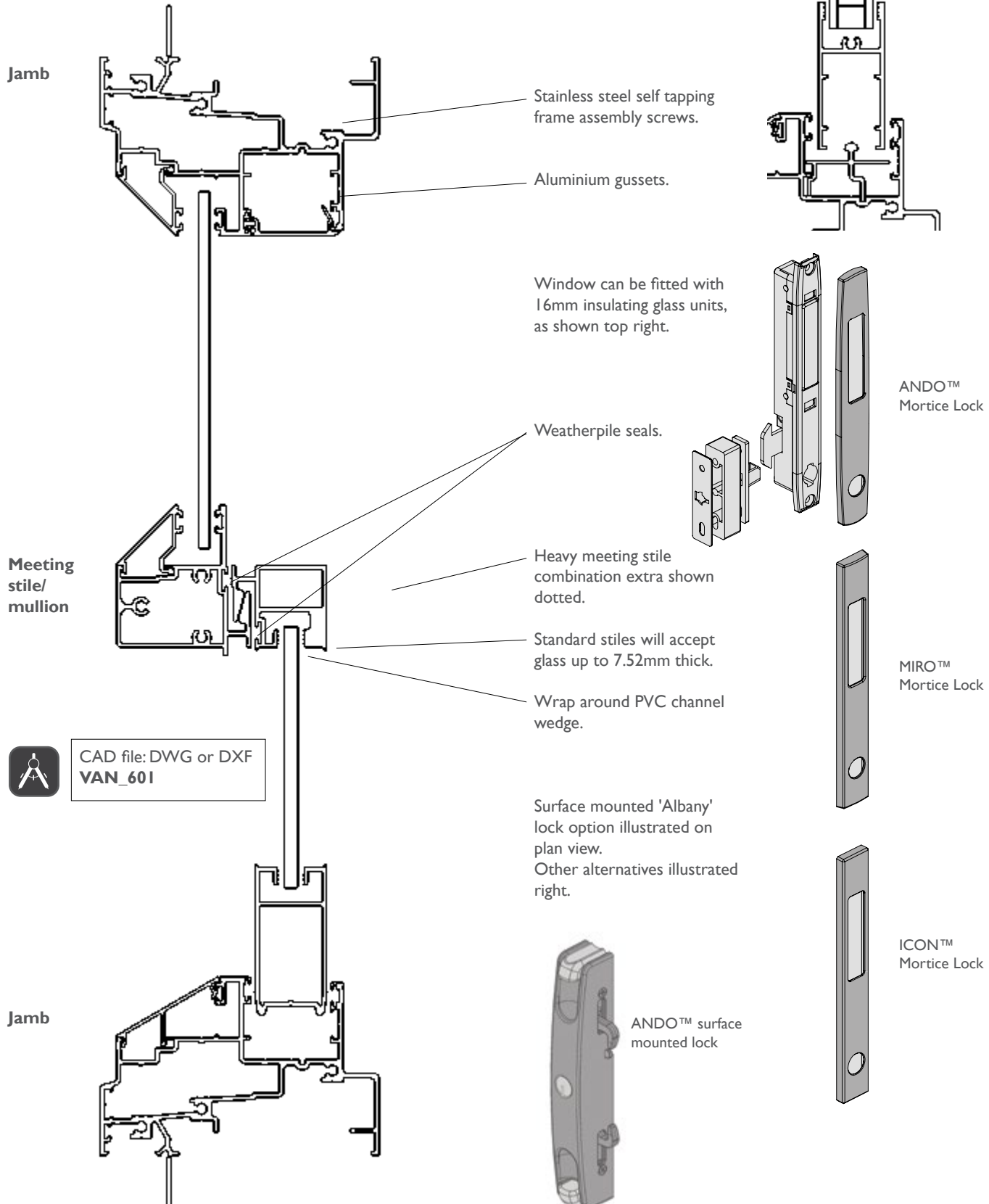
CAD file: DWG or DXF
VAN_601



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HORIZONTAL CROSS SECTION

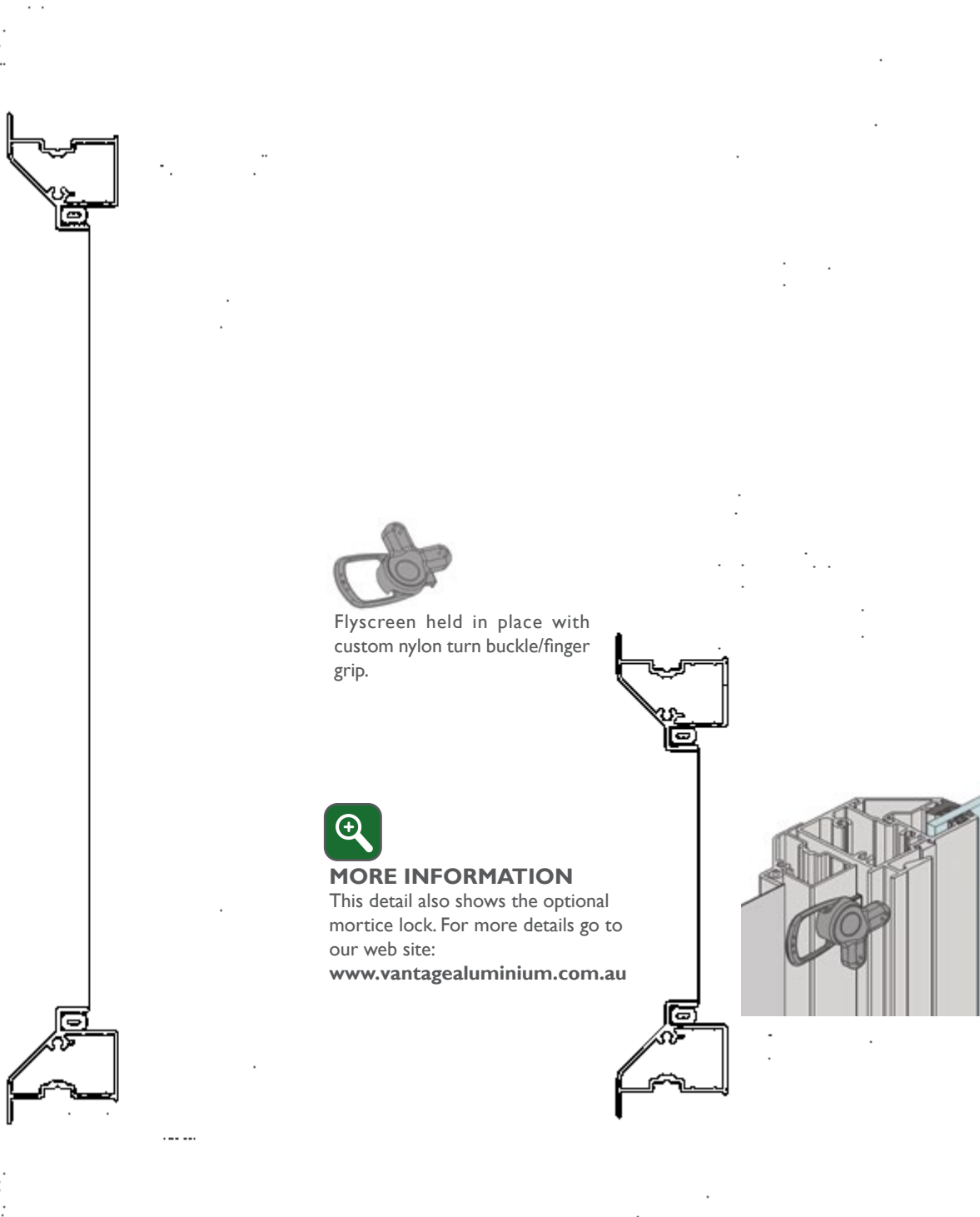


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CUSTOM FLYSCREEN FITTING DETAILS



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

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

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SUMMARY

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.

Proprietary 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 proprietary 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.



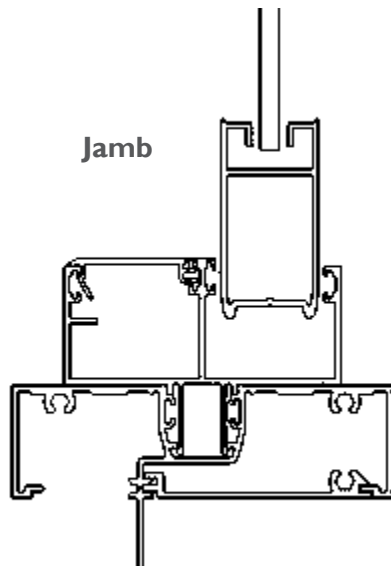
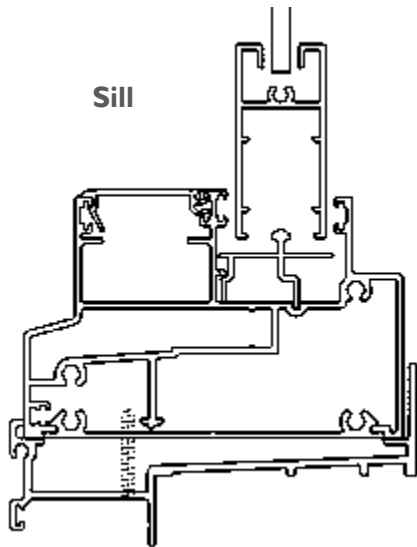
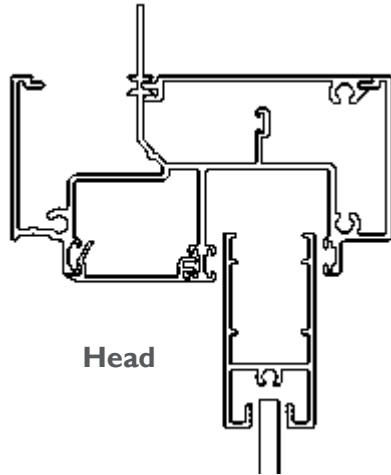
MORE INFORMATION

For building-in details or CAD drawings go to our web site: www.vantagealuminium.com.au or contact us at: techsupport@awsaustralia.com.au

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ALTERNATIVE 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.



MORE INFORMATION

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

