



aneeta[®]
Sashless Window Systems

Aneeta Sashless Windows are an innovative and aesthetic solution suitable for all building environments. The slim profiles, available in either aluminum or timber frames and covers with concealed locks, exist harmoniously within your building context. Unobtrusive and minimalist, Aneeta Windows complement your design landscape rather than dominate it.

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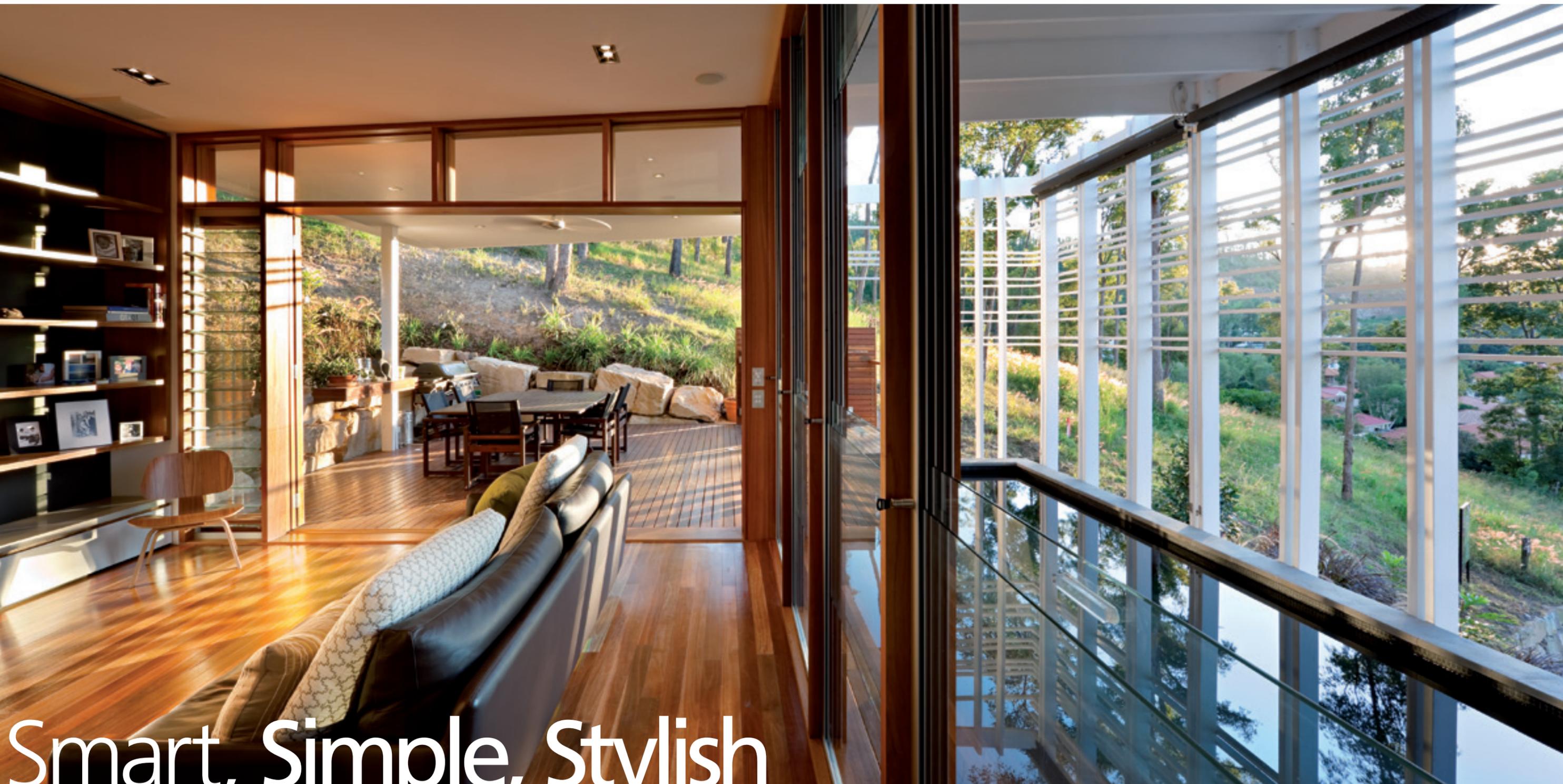


Our membership with the Australian Window Association is our guarantee of performance.



The Aneeta Windows 300 Series Double Glazed Sashless Horizontal Slider received "The Most Innovative Window System" award at the AWA Design Awards in 2010.





Smart, Simple, Stylish

Aneeta Sashless Windows are a popular choice with architects, interior designers and home owners.

They deliver the look of fixed glass with the practicality of an opening window. Best described as two panes of glass which overlap when opening or closing, the simplicity and sleek look define why the windows are referred to as "sashless".

Aneeta Sashless Windows are designed to be sympathetic to the uniqueness of each building. They are remarkably versatile in either new or existing structures and do not require close tolerances to work perfectly.

The Aneeta Story

Aneeta commenced manufacturing in Melbourne, Australia in 1994. Aneeta was successfully able to identify a market where a company was required to purely specialise in the manufacturing of sashless windows without being a manufacturer of complete window systems.

The company's original offering was a standard 2 Pane Vertical Sashless double hung with 6mm glass. This product has

now developed into a comprehensive window range to suit all domestic and commercial window requirements. The range includes 3 & 4 Pane options, doors, Horizontal Sashless Sliders, 16mm & 22mm double glazing, and custom manufacturing.

The business now has offices in Sydney, Brisbane, Perth and Adelaide operating alongside its Melbourne Head Office. Aneeta has distributor agreements in place for

New Zealand, Singapore, The Philippines, Bali, Thailand, Vietnam and India and has also exported products to South Africa, PNG, the Pacific Islands and Hawaii.

Aneeta Sashless Windows have now become the brand of choice among architects, builders and homeowners alike. If you would like to know more, please contact one of our offices or visit us online aneetawindows.com



Vertical Sliders 2 Pane

The 2 Pane Vertical Slider is Aneeta's most popular product for residential and commercial projects.

An ideal alternative to traditional windows, the clean slimline design will not detract from the overall architectural aesthetic. Aneeta 2 Pane Sashless Windows provide the maximum viewing area possible. Features include a centre fin for superior weather performance, a lock open position and concealed fixings. The double hung counter balance system is easy to operate and allows for superior ventilation.

In addition to the counter-balance system, this product is also available in a single hung servery style (with one of the panes fixed at either the top or bottom) which is ideal for applications such as kitchen serveries, pool fences, ticketing booths, restaurants and cafes.

Aneeta Window Systems are so versatile that they can easily be tailored to fit openings that require raked or arched heads and sills.

Counterbalanced



VS2PSS

Single Hung Servery Style



VS2PFS



VS2PSF

Glass Options

- 6mm or 10mm Single Glazed
- 16mm Interlocking Double Glazed
- 16mm Clearstep™ Double Glazed

Frame Options

- Timber
- Aluminium
- Composite
(Aluminium Outside / Timber Inside)





Photography Scott Burrows

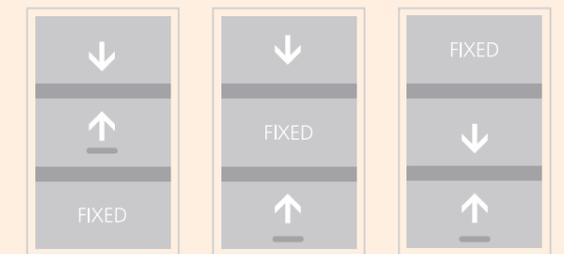
Vertical Sliders 3 Pane

The Aneeta 3 Pane Vertical Slider has one fixed window pane either at the top, middle or bottom and can be tailored to suit a multitude of applications.

The 3 Pane Vertical system is very popular where a fixed bottom pane is required, for example garden beds and pools, to eliminate water ingress and pedestrian traffic. The fixed bottom pane system satisfies window egress requirements on multi-storey projects while maintaining the stylish floor to ceiling sashless look.

In addition to the counterbalanced system, the 3 Pane Sashless Window is also available in a single hung servery style whereby the top and bottom panels are fixed and the centre pane moves. This allows for airflow through the centre section.

Counterbalanced

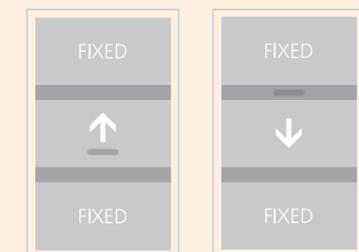


VS3PSSF

VS3PSFS

VS3PFSS

Single Hung Servery Style



VS3PFSuF

VS3PFSdF

Glass Options

- 6mm or 10mm Single Glazed
- 16mm Interlocking Double Glazed
- 16mm Clearstep™ Double Glazed

Frame Options

- Timber
- Aluminium
- Composite
(Aluminium Outside / Timber Inside)





Vertical Sliders 4 Pane

The unique Aneeta 4 Pane Vertical Slider is considered the pinnacle of the Aneeta range.

This system completes the Aneeta Sashless Vertical Range and alternative options give planners and specifiers the ultimate freedom to mix and match. In its most popular arrangement, the two centre panes form the opening part of the window while the top and bottom panes remain fixed.

The Aneeta 4 Pane variation has been adopted and implemented by architects and specifiers in numerous applications such as wintergardens, restaurants, cafes, and hotels and is extremely popular when used in building facade work.

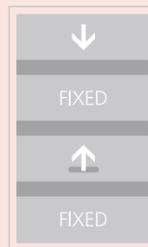
Counterbalanced



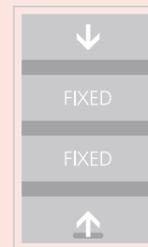
VS4PFSuSdF



VS4PFSdSuF



VS4PSFSF



VS4PSFFS



VS4PFSFS

Glass Options

- 6mm or 10mm Single Glazed
- 16mm Interlocking Double Glazed
- 16mm Clearstep™ Double Glazed

Frame Options

- Timber
- Aluminium
- Composite
(Aluminium Outside / Timber Inside)



Horizontal Sliders

The revolutionary, Aneeta designed, 300 Series Sashless Horizontal Slider is the only tested and certified 300pa (water) horizontal sashless window on the market.

Tested to an N5 rating (AS4055), Horizontal Sliders are ideal to prevent wind and water entry in exposed locations including coastal, balcony, courtyard and heavy traffic areas.

The 300 Series Horizontal Slider also surpasses the requirements for 'air conditioned buildings' which makes it suitable for both commercial and residential applications including new homes, apartments, schools, restaurants, cafes, care facilities, renovations and retrofits.

With contemporary slim lines this product has the appearance of fixed glazing and does not detract from the overall architectural aesthetic. This makes it a popular alternative to traditional windows and as such, many homes are now being specified with all opening windows as sashless units.

To further improve the energy performance in extreme climate zones the 22mm double glazed model is also available in a Thermally Broken version.



Glass Options

- 6mm or 10mm Single Glazed
- 22mm Interlocked Double Glazed

Frame Options

- Timber
- Aluminium
- Composite (Aluminium Outside / Timber Inside)



The Aneeta Windows 300 Series Double Glazed Sashless Horizontal Slider received "The Most Innovative Window System" award at the AWA Design Awards in 2010.



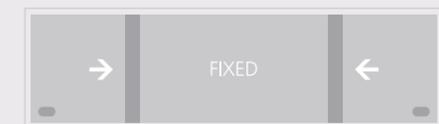
2 Pane Horizontal

The 2 Pane Horizontal Slider is Aneeta's most popular horizontal product for residential and commercial projects. The slimline design includes two independent opening sections to allow for maximum ventilation.

Typical Configurations



HS2PSS



HS3PSFS



HS3PFSF



HS4PFSSF



HS4PSFSF



HS4PFSFS

3 Pane Horizontal

The 3 Pane Horizontal Slider maintains all the benefits and appearance of the 2 Pane system, while adding an extra pane and allowing either 1 or 2 of the panes to be fixed. This suits the use of extra wide window configurations with operation and airflow controlled to specific locations.

4 Pane Horizontal

The 4 Pane Horizontal Slider maintains all the benefits and appearance of the 2 and 3 Pane systems. The addition of an extra pane enables us to incorporate extra configurations. By targeting extra wide window configurations, the 4 Pane system maintains an easy operation and controlled airflow to specific locations.



Double Glazed

The Aneeta window range is available in energy efficient and noise insulating double glazing.

Extremely popular in all States of Australia, Aneeta provide two unique double glazed options to the market.

Option 1, is our "Interlocking" double glazed product which was developed as our standard offering. The interlocking system optimises a visible aluminium interlock at the centre where the two glass panes meet.

Option 2, is our patented "Clearstep" double glazed product. It has been designed with an overlap of glass between the top and bottom panes which compliments our original sashless look.

Both of our double glazed options deliver a range of benefits including improved energy efficiency and comfort, resulting in reduced heating and cooling costs. As well as energy savings to the end user our systems also reduce noise transmission and condensation while providing an improvement in security.

Interlocking

The traditional Double Glazed Aneeta window

Aneeta's standard double glazed offering, utilises two aluminium 'interlocking' rails that meet in the middle to provide the slimmest profile possible. Suitable for those who prefer a traditional window style, however still require ease of operation together with Aneeta's distinct, modern slim lines.

- The slimmest sash framing system
- Provides superior thermal performance
- Double glazed units are designed around:
 - > Vertical Sliders 16mm overall IGUs i.e. 4/8/4, 6/6/4 or 5/6/5
 - > Horizontal Sliders 22mm overall IGUs i.e. 4/14/4, 5/12/5, 6/12/4 etc.

Available Configurations

The Interlock option is available on all vertical and horizontal sliding configurations.

Clearstep™

Aneeta's patented "Sashless" Double Glazed window

Our Vertical Slider double glazed models are also available in our optional Clearstep™ model. This is a newer variation to the traditional Interlocking model, whereby the seamless look and style of a sashless window has been incorporated. Clearstep™ has the standard characteristics of the traditional Interlocking model with the following added features:

- Minimal visual difference between the single glazed sashless window
- Maintains the elegant sashless glass overlap
- Provides the 'raw' industrial look preferred by specifiers
- Double glazed units are design around:
 - > Vertical Sliders 16mm overall IGUs i.e. 4/8/4, 6/6/4 or 5/6/5

Available Configurations

The Clearstep™ option is only available on vertical sliding configurations.

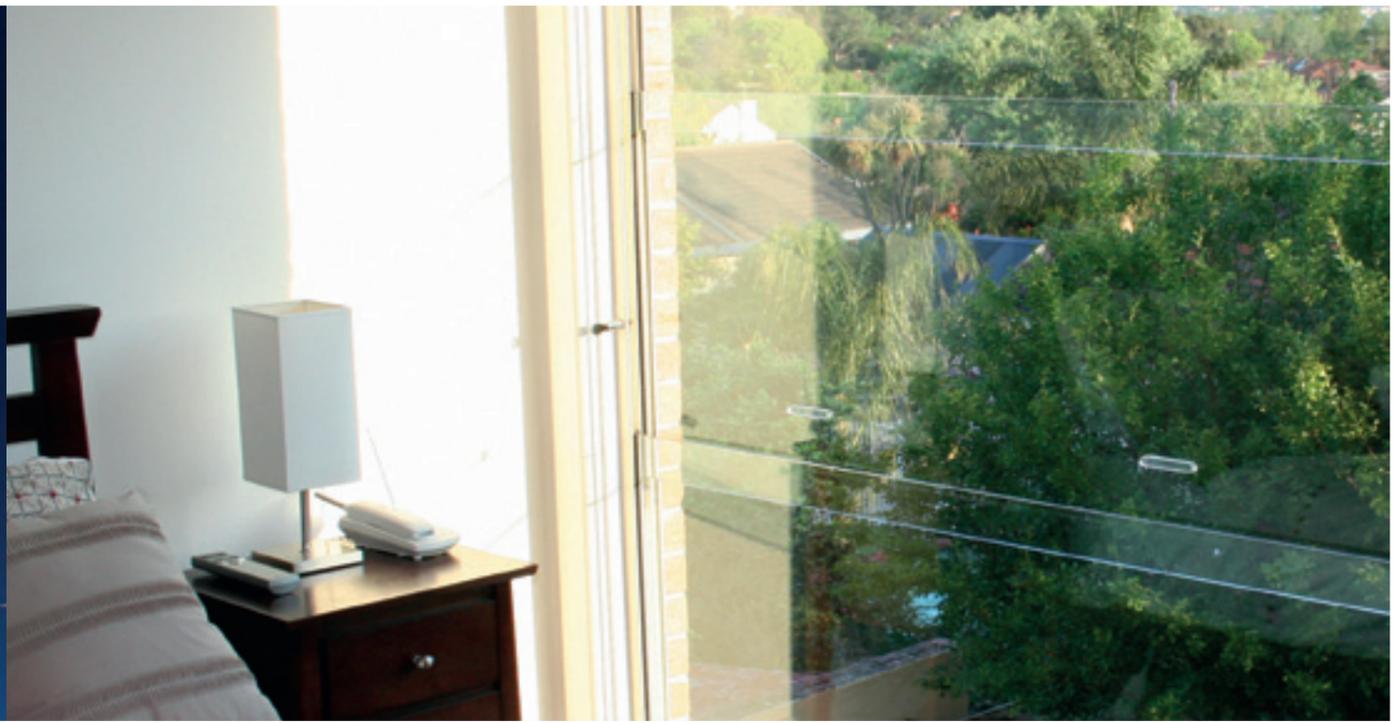
The 1st True Double Glazed Sashless Window

Our patented Aneeta Clearstep™ double glazed, double hung window provides an overlap of glass between the top and bottom panes while incorporating powdercoated "U" and "L" caps. This patented design provides an alternative to our traditional interlocking double glazed offering.

The end result is a double glazed sashless window that compliments our 6mm and 10mm single glazed products.

AUS Patent No. 2005201474 / US Patent No. 7,716,875





Special Applications

Acoustic

Improved acoustic performance.

In 1997, Aneeta became the approved supplier for the Sydney Aircraft Noise Insulation Project (SANIP). Through this endeavour Aneeta have developed products suitable for various acoustic applications (backed by NATA approved laboratory tests).

MODEL	GLASS	STC	R _w (C;C _v)
Aneeta Vertical Sliders			
VSA 2P6 SS A	6.38 laminated	30	30 (0;-2)
VSA 2P10 SS A	10.38 laminated	32	32 (0;-1)
VSA 2P16 SS A	6.38 / 6 / 4 double glazed	33	33 (-1;-3)
Aneeta Horizontal Sliders			
HSA 2P10 SS A	10.5 'Hush' laminated	35	35 (-1;-3)
HSA 2P22 SS A	6.5 / 12 / 4 double glazed	29	29 (-1;-3)

Aneeta windows have also been tested within a double window arrangement for extreme noise situations - with a primary window (outside) and a secondary window (inside), separated by a gap typically 100 to 150mm. This arrangement can be specified for new builds, or as a retro fit, where a secondary window is required inside an existing window.

PRIMARY WINDOW (by others)	SECONDARY WINDOW	STC	R _w (C;C _v)
Aneeta vertical sliders			
Capral 419 awning (6.38)	Aneeta VSA 2P6 SS A (6 glass)	45	45 (-2;-7)
Composite Casement (3 / 12 / 3)	Aneeta VSA 2P6 SS A (6 glass)	46	45 (-2;-7)
Composite Casement (3 / 12 / 3)	Aneeta VSA 2P10 SS A (10.38 glass)	46	46 (-2;-6)
Composite Casement (3 / 12 / 3)	Aneeta VSA 2P10 SS A (6.38 / 6 / 4 double glazed)	45	45 (-2;-6)

1/3 octave band sound reduction index data available on request for tested products.



Applications and Options

- Aneeta windows specified as stand alone units for projects requiring an acoustic rating
- Using a heavier glass such as 10.5mm laminated glass (R_w = 35)
- Aneeta acoustic windows retrofitted as secondary units to existing windows (primary and secondary window arrangement, provides R_w of 45 or more)

Aneeta Windows 300 Series Horizontally Sliding Window Range can now also be specified for acoustic standalone or secondary window situations.

Retrofit

Aneeta windows can be a simple and modern solution when retrofitted to existing window frames.

Aneeta windows are not only installed in new, often architecturally designed homes, but also lend themselves well to the renovation of older homes. Typically these projects involve maintaining the period look of the house from the front but modernising and opening up the rear extension, a style which our window is perfectly suited.

Where suitable the outer or mainframe can be retained and an Aneeta sashless insert can be installed. This gives a very cost effective way to upgrade the windows.

Often as window frames are already in place, the retrofitting service can be provided direct to the builder or homeowner.



Applications

A sashless window retrofit is perfect for the following:

- Where original design hasn't allowed for enough ventilation (i.e. remove fixed glass panes)
- Old timber sashes have rotted or are not operating effectively
- Spirals or cords require too much maintenance
- Upgrade from single glazing to "Low E" or "double glazing" for greater energy efficiency
- Upgrade a door panel to include our window system
- Create a more contemporary look



Bushfire

The stylish and slim lined Aneeta Fire Window is BAL-40 compliant, making it ideal for bushfire prone areas. The Vertical Slider framing system provides all the safety features of a fire rated window with a contemporary look.

Aneeta Windows have developed a new product specifically to meet the requirements of dwellings in bushfire prone areas – compliant with Australian Standard AS3959:2009.

By utilising specific glass types and redesigning seals and components, the window is able to withstand Bushfire Attack Level 40 (BAL-40) without the need for Bushfire shutters or sacrificing the benefits of Aneeta's regular double glazed, double hung windows.

Other Aneeta Windows products can be utilised within bushfire prone areas, provided certain criteria are met. Contact Aneeta for more information.



Specifying Aneeta Sashless Windows in Bushfire Zoned areas

Information provided is based on Australian Standard AS3959. Please seek further independent information from your local council authorities and/or engineers as variations may exist in your particular location and bushfire circumstance.

Further information about using Aneeta Fire or other sashless windows is available on our website.

aneetawindows.com

Doors

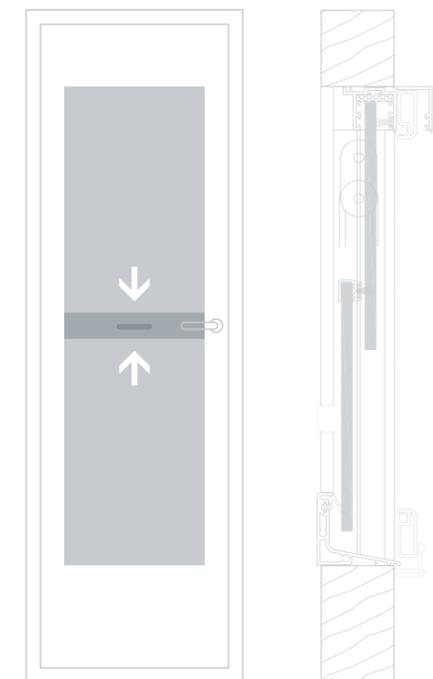
Elegant and simple window solutions for doors.

Due to their innovative design, the popular Aneeta Vertical Slider can be fitted directly into doors, providing access and security whilst still allowing ventilation in one simple and contemporary solution.

With the system's slim lines, minimal space requirements and ability to be locked in a partially open position, the door insert is the ideal solution for the architect, specifier or home owner where no other opening windows within the room are available.

- Doors can be kept securely locked at night, and the sashless unit can be locked in a partially open position
- Easy to attach flyscreen, eliminating the need for flydoors, saving room and money
- Suitable for hinged, bi-folding, sliding and fixed door panels
- Aneeta Vertical Slider Door inserts (with 6mm glass option) are slim enough to fit into standard 40mm timber doors and commercial grade aluminium doors without modification.
- Able to provide ventilation in French door sets where no other ventilation is available

Typical Configuration and Elevation



VSD2PSS

Note: Not all door types are suitable for sashless windows and generally, due to weight restrictions, only 6mm versions are recommended. Contact Aneeta for more information.



Commercial

Aneeta has proven capability in undertaking large scale commercial projects for both government and private bodies. Many of these projects required our product to undergo rigorous testing and evaluation prior to being selected.

Projects we regularly undertake include:

- Multi Storey Residential Apartments
- Schools
- Aged Care Facilities
- Child Care Centres
- Restaurants and Cafes
- Churches and Community Centres
- Hotels
- Sporting Facilities
- Racecourses
- Housing Commission Projects
- Even Lifeguard Towers

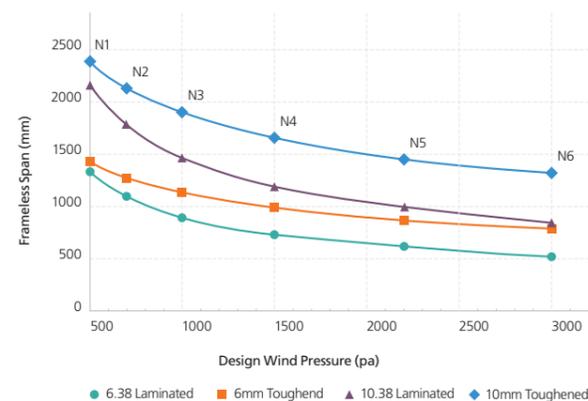


Technical Details

Weather Performance

Aneeta's range of standard models are rated for a minimum of 150-300pa water (depending on model) whilst the structural limits are dependant on the window size and glass type. As a guide the allowed loading decreases as the glass width (or height for HS) increases.

Certain models have been tested up to 1000pa water and 6000pa wind load, which are very high results, even for commercial window products. The performance requirements for windows in residential houses is deemed by a 'N' rating, which determines the type of glass suitable for a particular design (refer to table).



For Double Glazing (i.e. 4mm/ space/ 4mm toughened) approximate with the 6mm Toughened curve.

NOTE: The above graph is to be used as a guide only. Further weight & size limitations may apply. For anything spanning over 1400mm, please contact Aneeta Windows.

Specifying Aneeta

The best way to specify an Aneeta Sashless Window is to specify the model, for example:

- ANEETA VS3P16CSSF is a vertical slider 3 pane Clearstep™ double glazed window with the top 2 panes counterbalanced and the bottom fixed
- ANEETA HS3002P10SS is a 300 series horizontal slider with 10mm glass, and both panes sliding

If needed please contact Aneeta for a copy of our product coding system.

Testing

Aneeta windows are tested to AS4420 and conform with AS2047 which specifies the requirements for design wind load, water penetration and air-infiltration. Aneeta have also undertaken acoustic, bushfire and other performance tests.



Energy

Window performance is a critical design factor due to both Australia's commitment to 5+ star ratings on housing to save energy consumption, and the need to increase the comfort level of occupants. Aneeta can offer either single glazed windows with Low E glass or double glazed windows (also with Low E glass) to meet your differing energy requirements. Exact performance data can be accessed from the Aneeta website aneetawindows.com or the official Window Energy Ratings scheme (WERS) website www.wers.net

Window Energy Ratings Scheme

	Cooling Star Rating	Heating Star Rating	U Value	SHGC	Cooling % Improvement	Heating % Improvement
ANEETA ALUMINIUM SINGLE GLAZED VERTICAL & HORIZONTAL SLIDER						
6 clear glass	★☆☆	★★☆☆	6.0	0.63	24	17
6 grey tinted glass	★★☆☆	★★	6.0	0.45	39	8
6.38 clear laminated glass	★☆☆	★★☆☆	6.0	0.62	45	18
6 Sunergy Low E glass	★★☆☆	★★★	4.8	0.46	44	25
6 EnergyTech Low E glass	★★☆☆	★★★★☆	4.4	0.54	40	34
6.38 Comfortplus Neutral Low E glass	★★★	★★★	4.4	0.40	50	26
ANEETA ALUMINIUM DOUBLE GLAZED VERTICAL SLIDER						
4 clear / 8 air / 4 clear glass	★★	★★★★	4.2	0.60	35	37
4 clear / 8 argon / 4 EnergyTech Low E clear glass	★★☆☆	★★★★☆	3.5	0.56	42	44
4 Supergreen / 8 argon / 4 EnergyTech Low E clear glass	★★★★	★★★★☆	3.5	0.35	58	32
4 Sunergy Low E / 8 air / 4 clear glass	★★★★☆	★★★★☆	3.9	0.43	50	33
4 clear / 8 air / 4 EnergyTech Low E glass	★★☆☆	★★★★	3.7	0.56	41	41
6.38 Comfortplus Neutral Low E / 6 air / 4 clear glass	★★★★☆	★★★★☆	3.9	0.37	54	29
ANEETA TIMBER SINGLE GLAZED VERTICAL & HORIZONTAL SLIDER						
6 clear glass	★☆☆	★★☆☆	5.0	0.66	26	30
6 grey tinted glass	★★☆☆	★★☆☆	5.0	0.46	42	20
6.38 clear laminated glass	★☆☆	★★☆☆	4.9	0.65	27	30
6 Sunergy Low E glass	★★★	★★★★	3.7	0.48	48	37
6 EnergyTech Low E glass	★★☆☆	★★★★☆	3.3	0.56	43	46
6.38 Comfortplus Neutral Low E glass	★★★★☆	★★★★	3.3	0.41	54	38
ANEETA TIMBER DOUBLE GLAZED VERTICAL SLIDER						
4 clear / 8 air / 4 clear glass	★★☆☆	★★★★★	3.1	0.62	39	51
4 clear / 8 argon / 4 EnergyTech Low E clear glass	★★★	★★★★★☆	2.4	0.58	46	58
4 evergreen / 8 argon / 4 EnergyTech Low E clear glass	★★★★☆	★★★★☆	2.3	0.35	63	46
4 Sunergy Low E / 8 air / 4 clear glass	★★★★☆	★★★★☆	2.8	0.44	55	46
4 clear / 8 air / 4 EnergyTech Low E glass	★★☆☆	★★★★★☆	2.6	0.60	44	56
6.38 Comfortplus Neutral Low E / 6 air / 4 clear glass	★★★★	★★★★☆	2.8	0.38	59	42
ANEETA 300 SERIES HORIZONTAL SLIDERS (DOUBLE GLAZED) UNBROKEN MODEL HORIZONTAL SLIDER						
4 clear / 14 air / 4 clear glass	★★	★★★★	3.8	0.64	35	42
4 clear / 14 argon / 4 EnergyTech Low E glass	★★★	★★★★★☆	2.8	0.60	44	55
THERMALLY BROKEN MODEL						
4 clear / 14 air / 4 clear glass	★★	★★★★	3.2	0.64	36	51
4 clear / 14 argon / 4 EnergyTech Low E glass	★★☆☆	★★★★★	2.2	0.60	47	63



Aneeta Windows pride themselves on being innovators in sashless window systems. Please note many of our systems contain specific design elements and as such we protect our inventiveness by obtaining worldwide patents and design protection where possible.

VICTORIA

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