Design Features :

This high performance awning/casement window has been designed to complement our other thermal products.

Series 726 incorporates Thermal Heart™ technology giving a true wide thermal break between the outside and inside faces. WERS (Window Energy Rating System) data shows that using the same IGU in a Thermal Heart™ awning is 32% more efficient than a standard non-thermally broken window.

A major advantage with Thermal Heart™ in cold climates is the reduction in internal condensation. This saves potential damage to timber reveals and paint finishes.

Thermal Heart is also suitable for hot climates it that takes more energy to cool a home in a hot area compared to heating a home in a cold climate zone.

We offer Thermal Heart™ in a range of stocked colours including dual colour ClearMIST™ contact your local Vantage fabricator for details.

The window has been tested for compliance with the relevant Australian Standards and achieved a very high water resistance of 600Pa, this makes 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 sash allow large sash windows to be fabricated for high wind load areas, refer Pascal rating tables later in these notes.

Sharp square external glazing beads are standard.

100mm frame, mullion and transom have a soft 2mm internal radius.

Awning sashes can be fitted with cam handles, manual chain winders or concealed electric winders. The winder options suit fixed flyscreen installation as detailed in these notes.

The window is compatible (appearance, strength and performance) with the high performance Thermal Heart™ hinged and bi-fold doors. We have light and heavy 180° couplers that will joint windows to doors without unsightly rivets or screws while maintaining the thermal break.

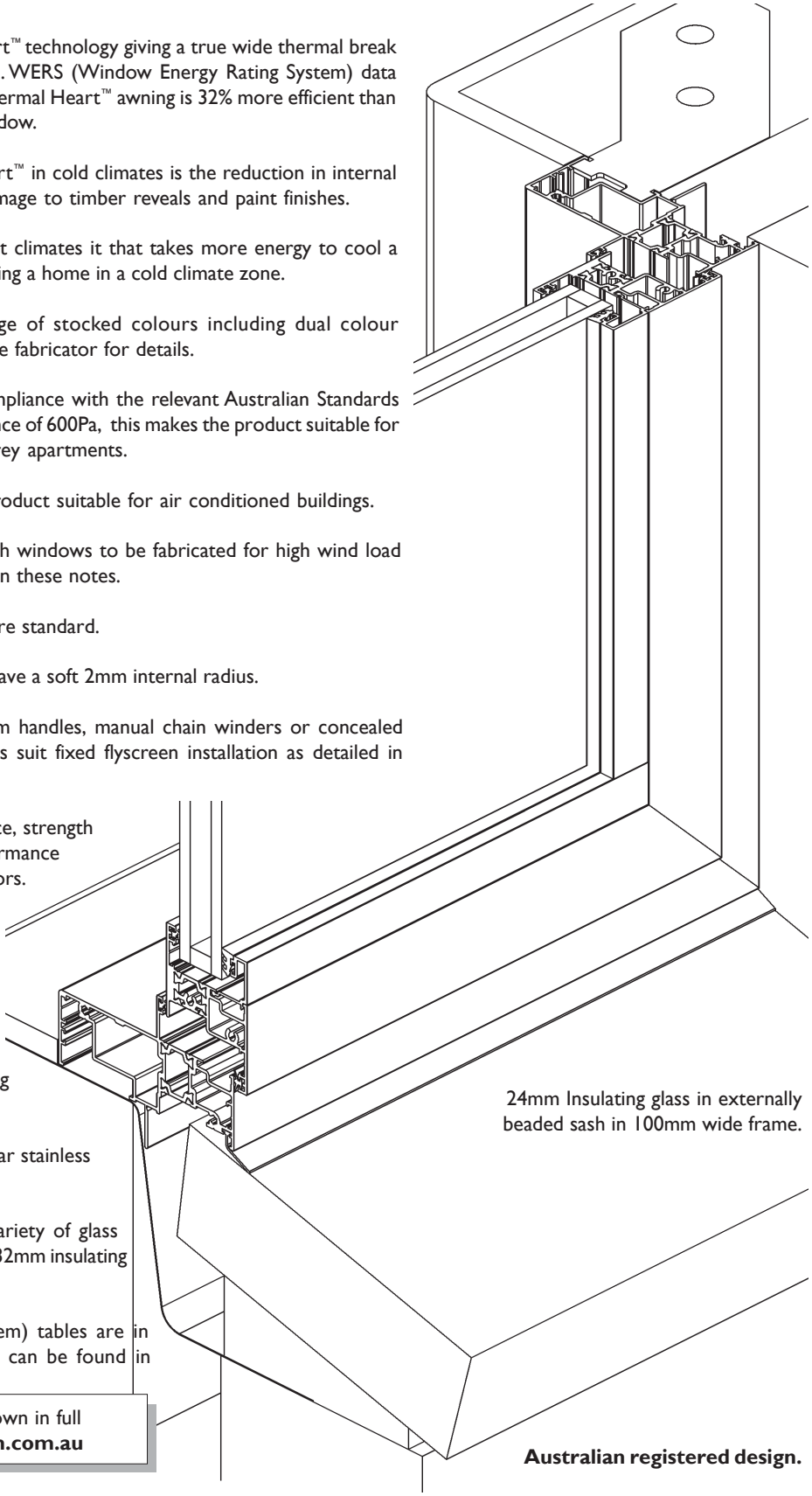
Fixed lowlights/sidelights use the same frame and beads as the opening sashes.

Sashes are hung on heavy duty four bar stainless steel or aluminium stays.

Sashes and sidelights will accept a variety of glass thicknesses from 4mm single panes to 32mm insulating glass units.

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

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



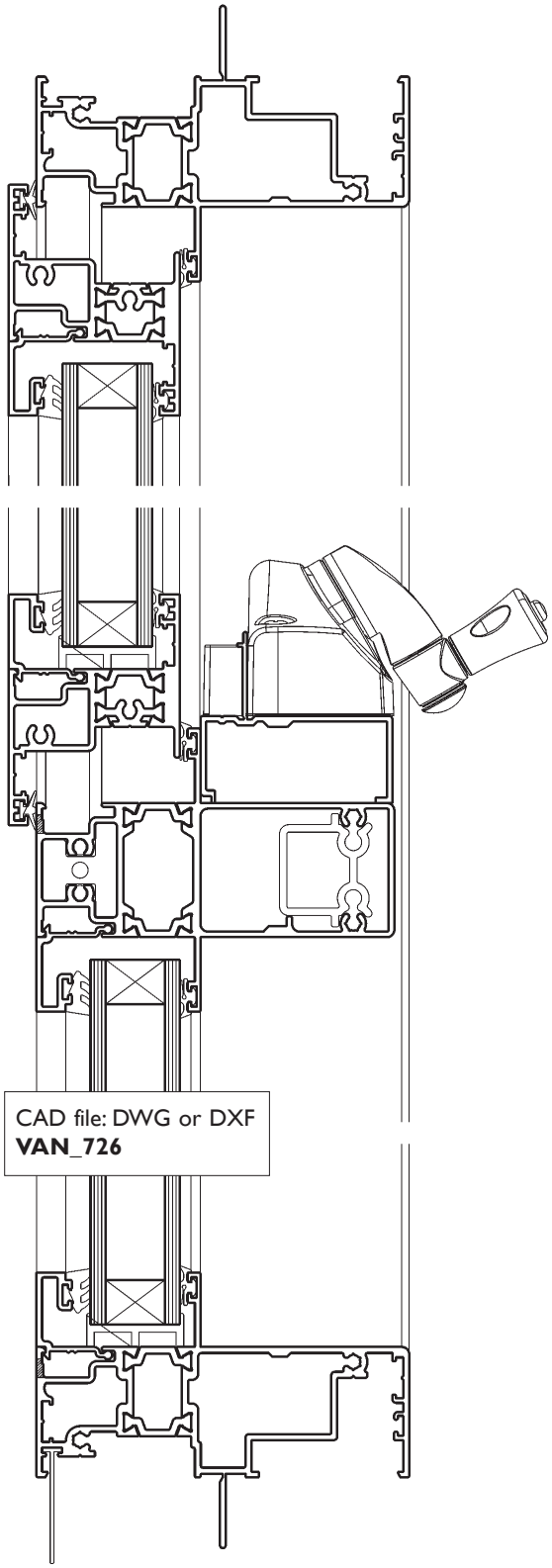
24mm Insulating glass in externally beaded sash in 100mm wide frame.

Australian registered design.

Architectural Information

Series 726 Thermal Heart™ Awning Window

Performance



Awning sash with manual chain winder over fixed lowlight.

Sash Strength

Rating tables for alternative sash side rails on this page.
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.

Please note: There are size and strength limitations on the sash hardware as shown earlier in these notes.

Window		Sash 72203		
Height	Width	1/150	1/180	
mm	mm	S	S	U
1400	900	1770 Pa	1770 Pa	3913 Pa
1400	1000	1582 Pa	1582 Pa	3528 Pa
1400	1100	1430 Pa	1430 Pa	3220 Pa
1400	1200	1305 Pa	1305 Pa	2970 Pa
1400	1300	1200 Pa	1200 Pa	2763 Pa
1600	900	1540 Pa	1540 Pa	2940 Pa
1600	1000	1377 Pa	1377 Pa	2645 Pa
1600	1100	1245 Pa	1245 Pa	2408 Pa
1600	1200	1136 Pa	1136 Pa	2215 Pa
1600	1300	1044 Pa	1044 Pa	2054 Pa
1800	900	1341 Pa	1117 Pa	2291 Pa
1800	1000	1206 Pa	1005 Pa	2058 Pa
1800	1100	1097 Pa	914 Pa	1871 Pa
1800	1200	1005 Pa	840 Pa	1718 Pa
1800	1300	924 Pa	779 Pa	1590 Pa

Table 37.1 Wind Ratings (Pa) sashes.

Sound Reduction

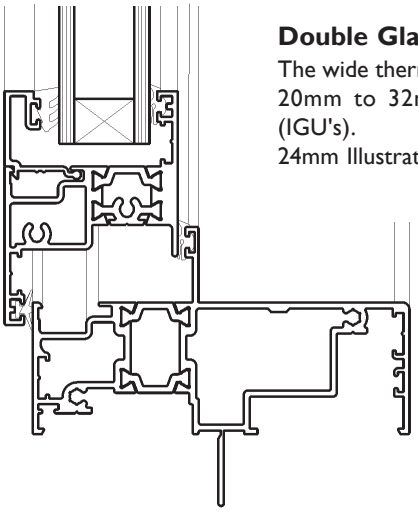
A number of glass combinations have been tested on a similar awning window. Opening sash was fitted with Santoprene fin seal on all inner sides.

- 4mm Annealed glass 30dB(A) RW32
- 6.38mm Laminated glass 34dB(A) RW34
- 10.38mm Laminated glass 36dB(A) RW36
- 24mm Insulating glass unit 35dB(A) RW35 (6-12-6)

Go to the SoundOUT section 55 for other options.

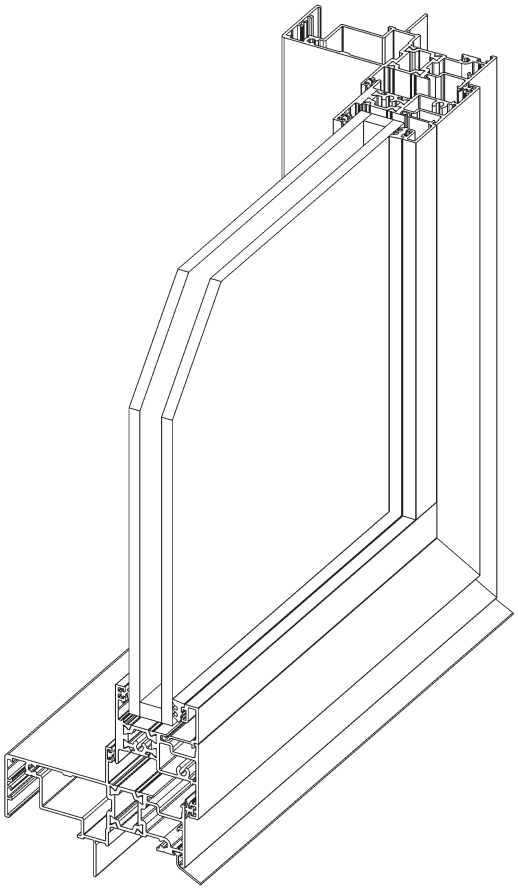
Thermal Transmission WERS

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.

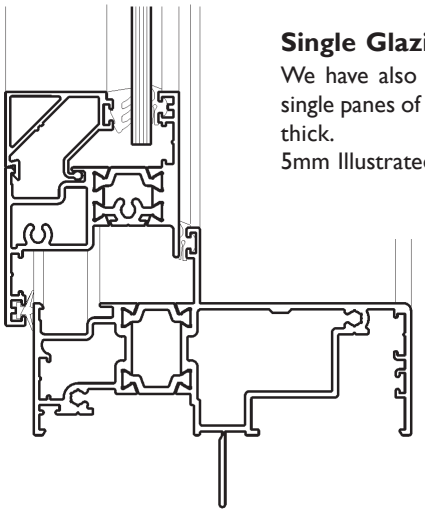


Double Glazing Alternatives

The wide thermally broken sash will accept 20mm to 32mm Insulating Glass Units (IGU's).
24mm Illustrated left.

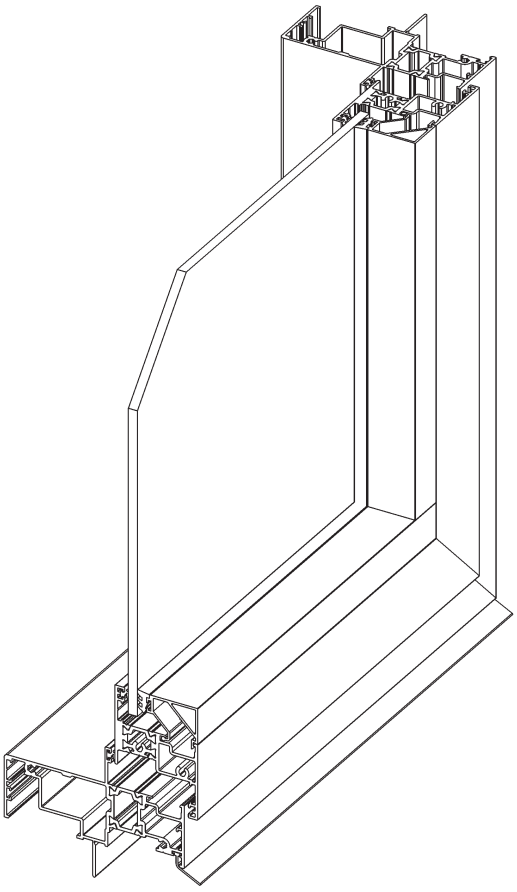


CAD file: DWG
VAN_726



Single Glazing Alternatives

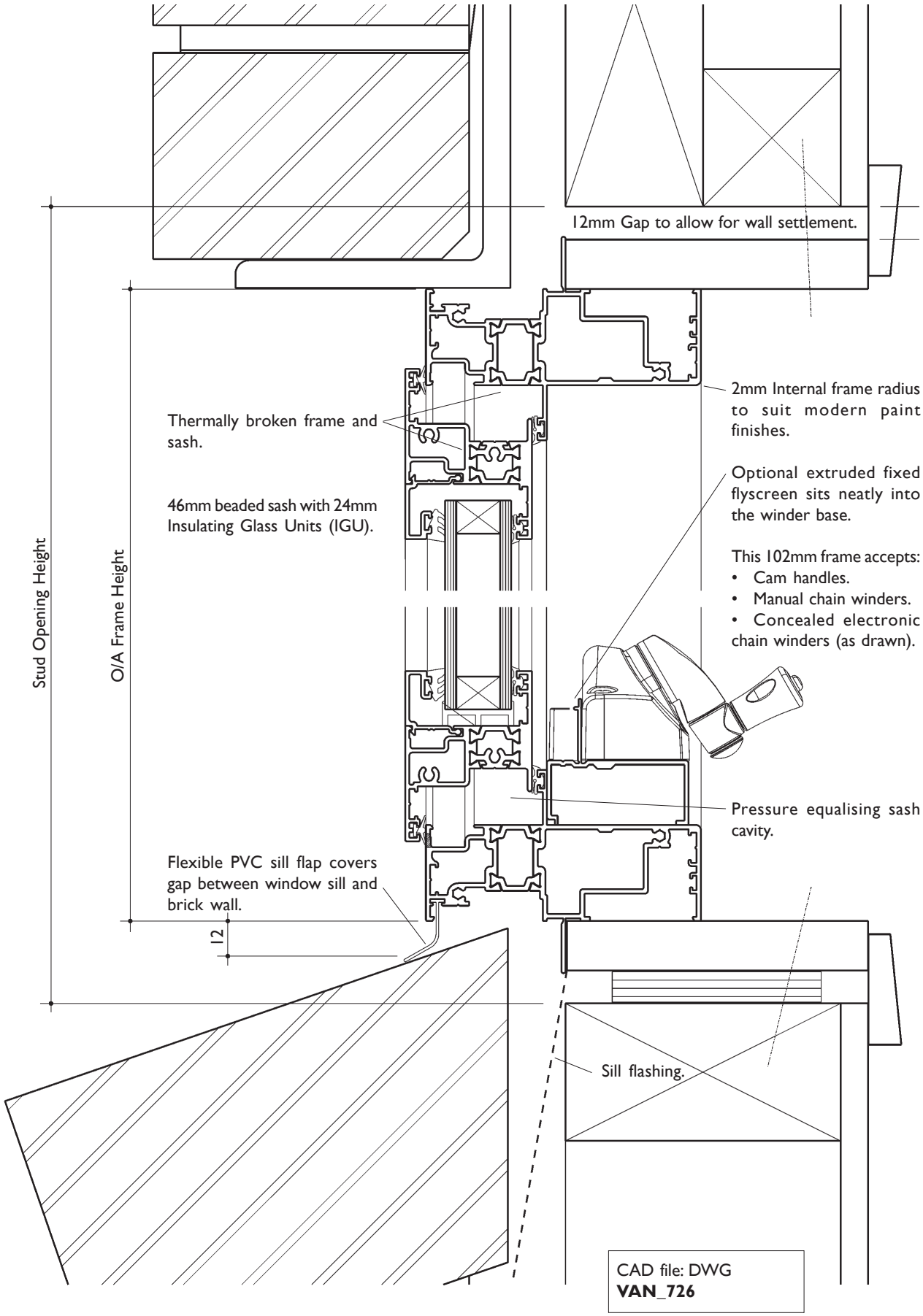
We have also cut glazing beads to accept single panes of glass from 4mm to 10.38mm thick.
5mm Illustrated left.



Architectural Information

Series 726 Thermal Heart™ Awning Window

Vertical Cross Section into Brick Veneer Wall



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Architectural Information

Series 726 Thermal Heart™ Awning Window

Horizontal Cross Section into Brick Veneer Wall

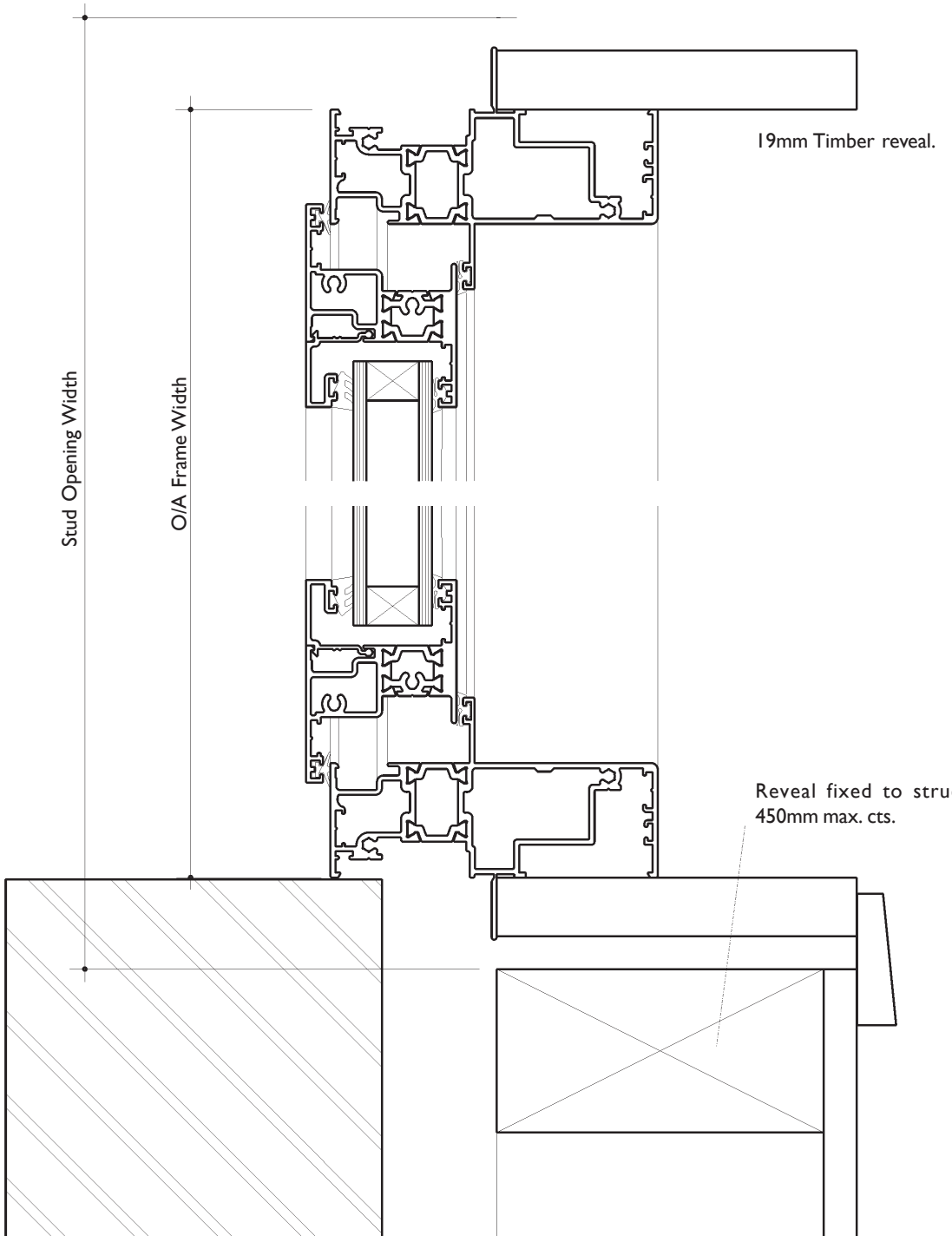
Date: Sep. 08

Replaces:

Scale: Half full size

Australian registered design.

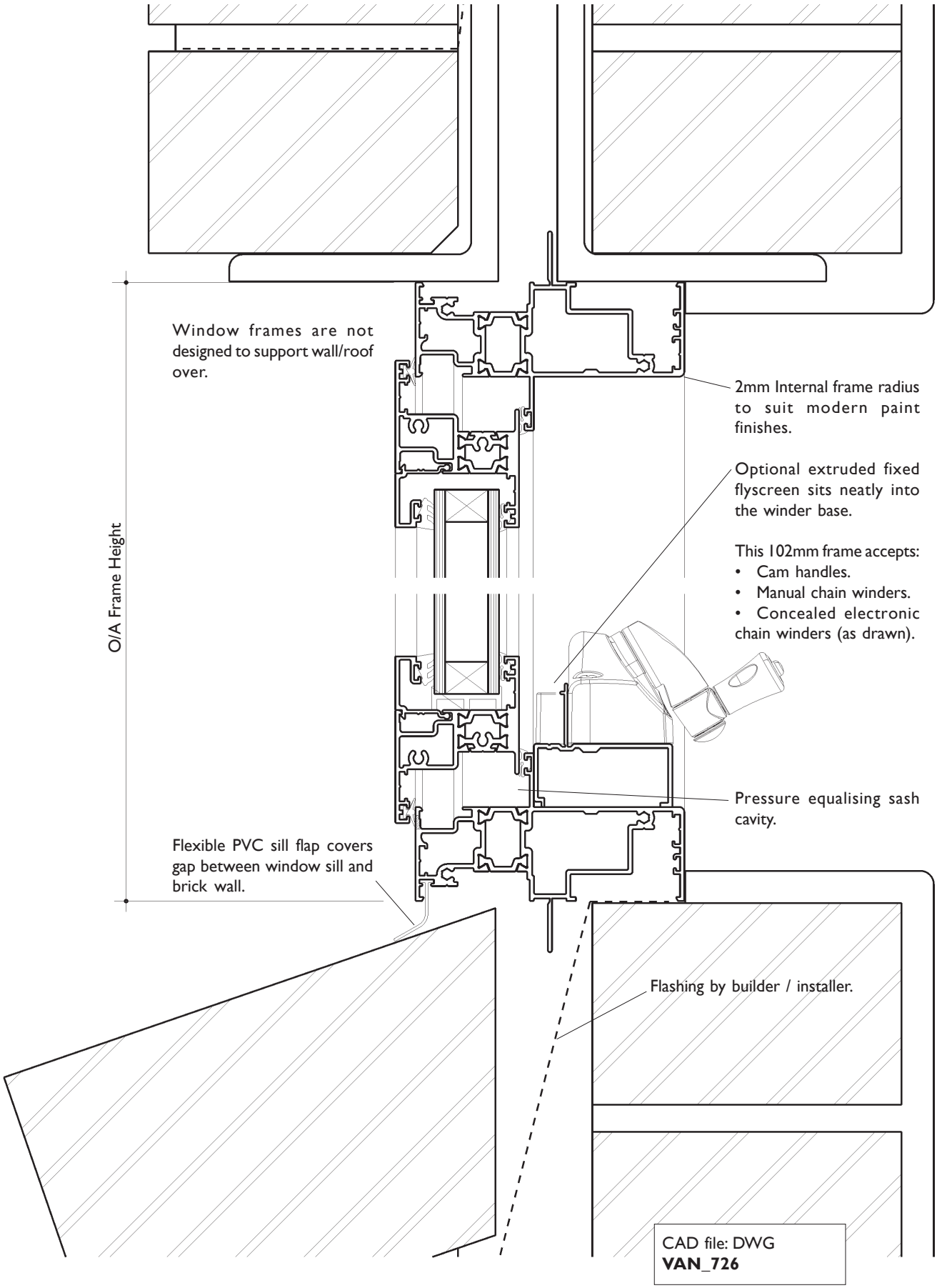
A feature with Series 726 is the conventional nailing fin / timber reveal arrangement making is easy to install the window into brick veneer construction.



Architectural Information

Series 726 Thermal Heart™ Awning Window

Vertical Cross Section into Cavity Brick Wall



CAD file: DWG
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Architectural Information

Series 726 Thermal Heart™ Awning Window

Horizontal Cross Section into Cavity Brick Wall

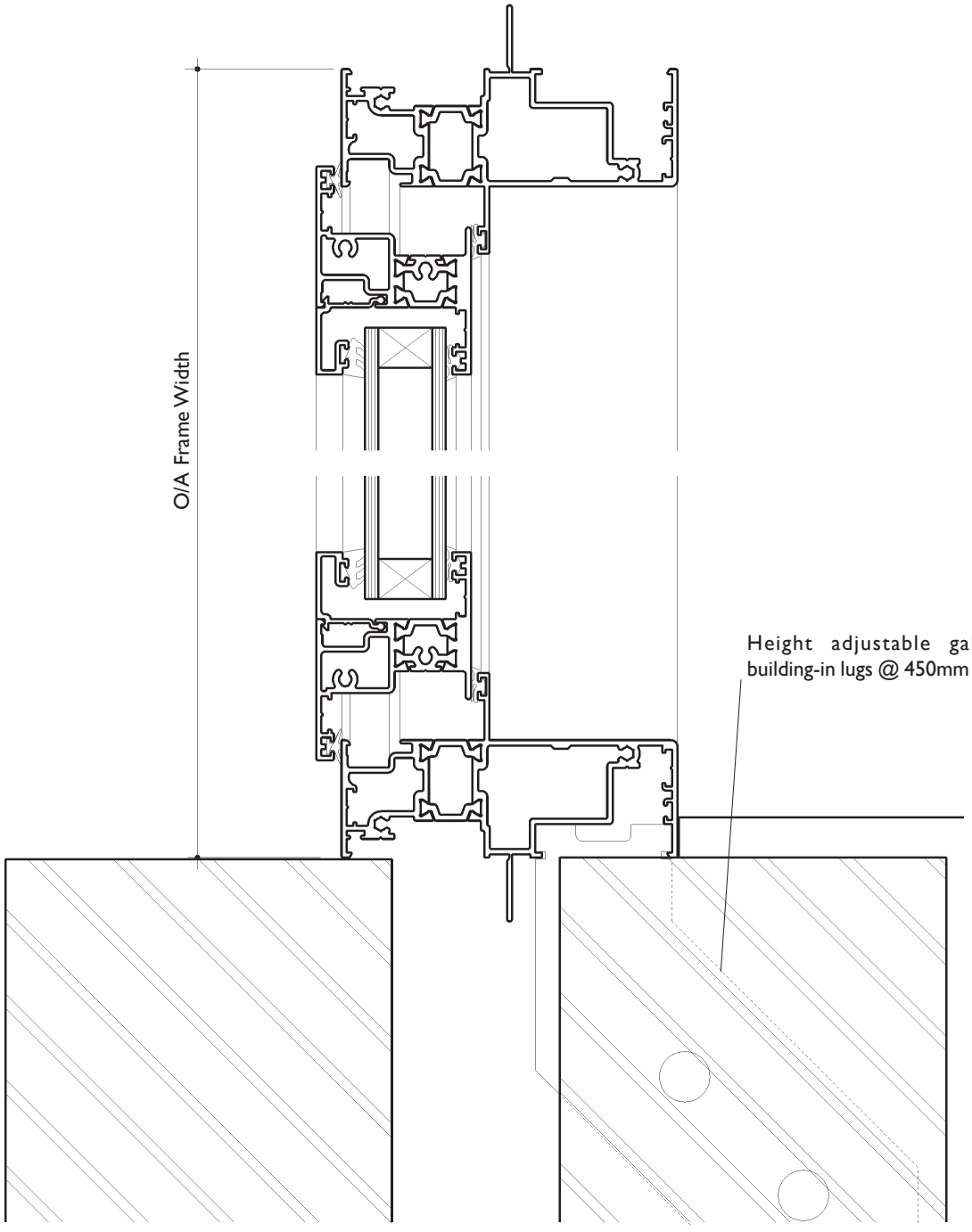
Date: Sep. 08

Replaces:

Scale: Half full size

Australian registered design.

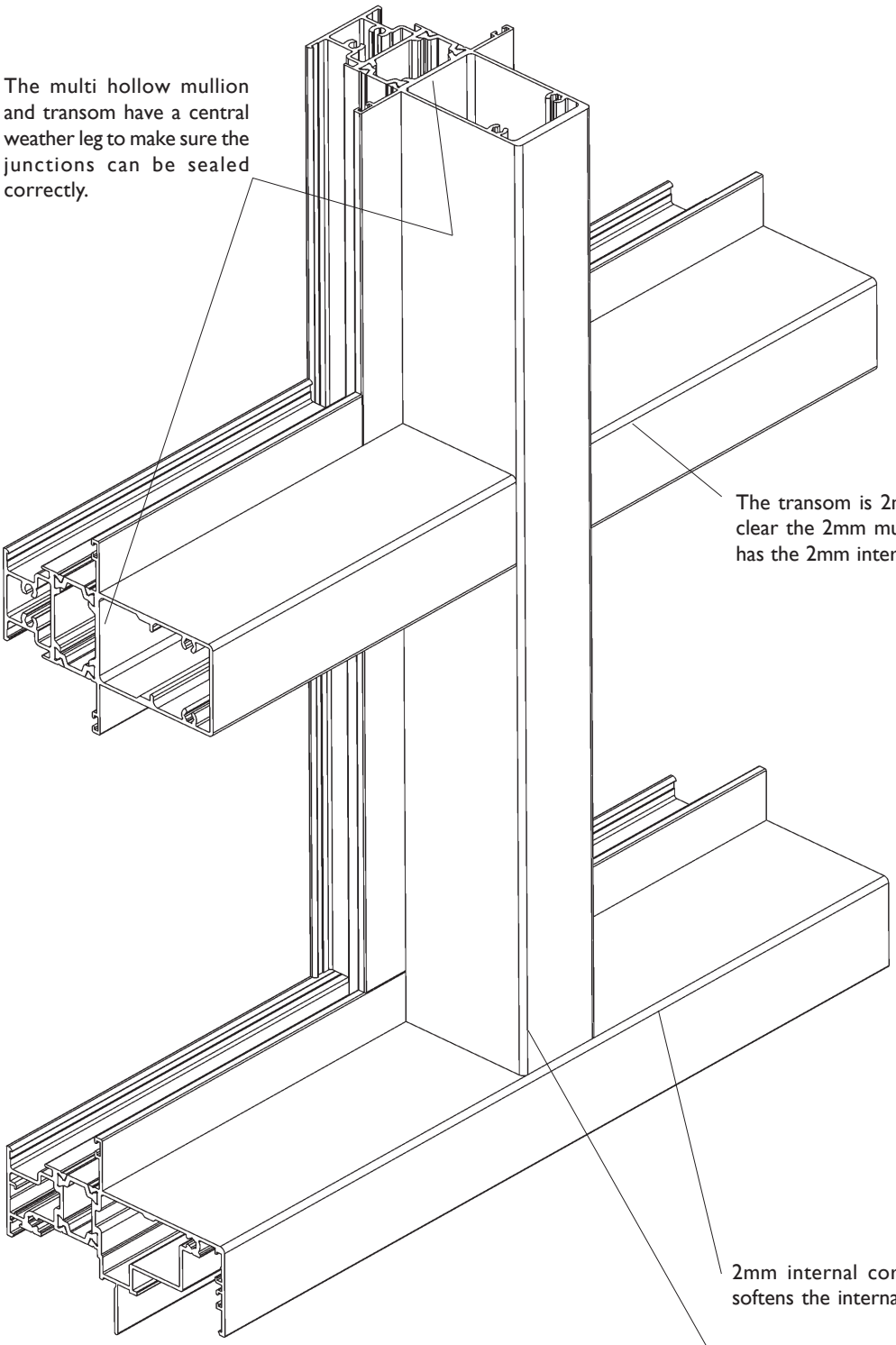
A feature with Series 726 is the conventional nailing fin / weather bar with height adjustable building-in lugs making is easy to install the window into cavity brick construction.



Architectural Information

Series 726 Thermal Heart™ Awning Window

Frame to Mullion to Transom Junctions

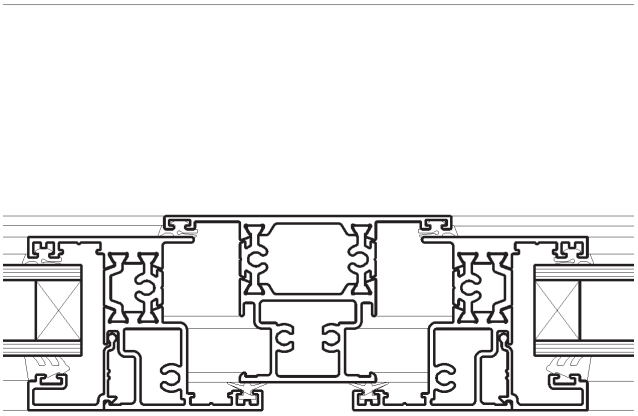


The multi hollow mullion and transom have a central weather leg to make sure the junctions can be sealed correctly.

The transom is 2mm narrower than mullion to clear the 2mm mullion radius. The transom also has the 2mm internal corner radius.

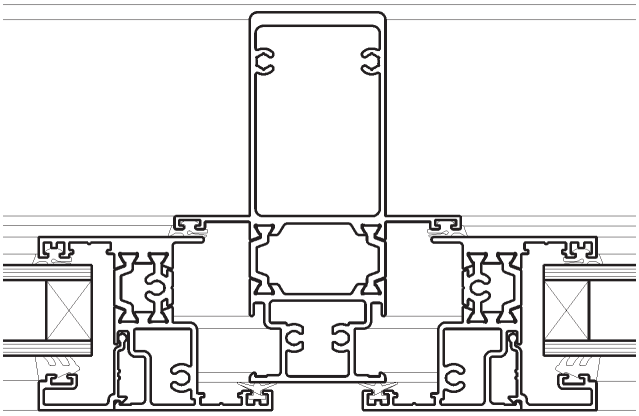
2mm internal corner radius on all four sides softens the internal edge.

The mullion is 2mm narrower than perimeter frame to clear the 2mm frame radius. The mullion also has the 2mm internal corner radius.



Light Mullion 72205

Note: This mullion is not suitable on windows fitted with chain winders.



Medium Mullion 72206

Medium Mullion 72206

Table 37.3 Wind Ratings (Pa)

Frame Sizes		Ratings		
O/A Height mm	Mullion Cts. mm	Serviceability 1/150	Serviceability 1/180	Ultimate
1800	800	3000 Pa	3000 Pa	4500 Pa
1800	900	3000 Pa	3000 Pa	4500 Pa
1800	1000	2973 Pa	2973 Pa	4459 Pa
1800	1100	2776 Pa	2776 Pa	4163 Pa
1800	1200	2622 Pa	2622 Pa	3933 Pa
2100	800	2529 Pa	2529 Pa	3794 Pa
2100	900	2281 Pa	2281 Pa	3422 Pa
2100	1000	2087 Pa	2087 Pa	3131 Pa
2100	1100	1933 Pa	1933 Pa	2900 Pa
2100	1200	1810 Pa	1810 Pa	2714 Pa
2400	800	1895 Pa	1895 Pa	2842 Pa
2400	900	1703 Pa	1703 Pa	2554 Pa
2400	1000	1552 Pa	1552 Pa	2327 Pa
2400	1100	1430 Pa	1430 Pa	2145 Pa
2400	1200	1331 Pa	1331 Pa	1997 Pa

Architectural Information

Series 726 Thermal Heart™ Awning Window

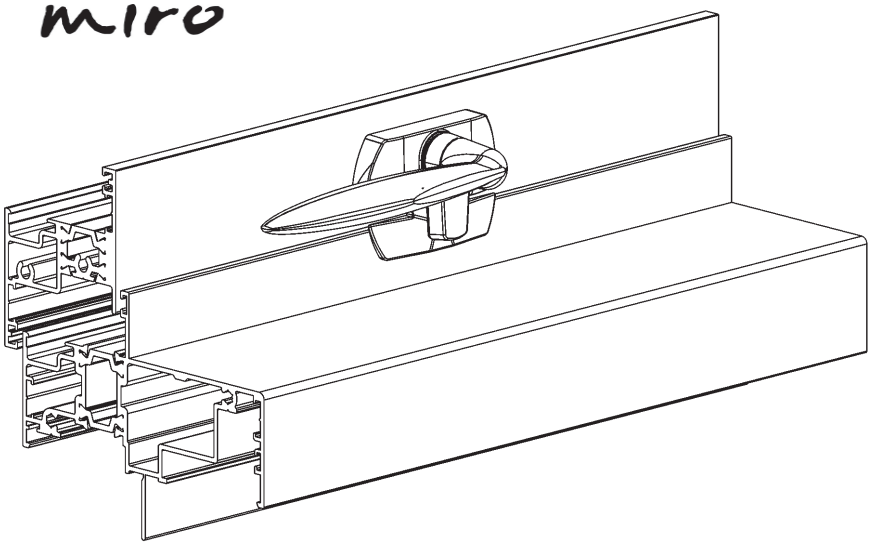
Check List

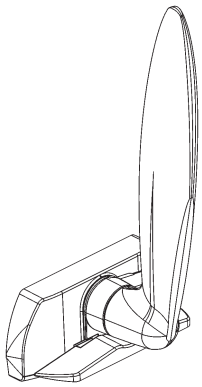
If you have chosen to install an aluminium awning window you have already decided to fit a better quality window, but there are differences that should be considered.

Features	**Series 726**	**Opposition**
True thermal break ? • The Vantage Series 726 awning window frame and sashes are thermally broken.	Yes	
Soft internal corners ? • The Vantage Series 726 frame, mullions and transoms have 2mm internal corner radius to soften the inner appearance and remove possible unsightly sharp edges at junctions. Details on this feature are shown on a previous page.	Yes	
Thick Insulating Glass Units (IGU's) ? • The Vantage Series 726 awning window will accept very thick IGU's up to 32mm thick. • Adjoining fixed lights will also accept glass up to 32mm thick.	Yes	
Will the awning window keep the water out - has it been tested ? • The Vantage Series 726 awning window has been successfully tested to keep water out achieving 600Pa water resistance. This allows the window to be used in most exposed areas in Australia including multi storey.	Yes	
Is the product suitable for air-conditioned appartments ? • We came in at a fraction of the requirements of the standard making the product ideal for air-conditioned buildings.	Yes	
Are the awning sashes strong enough to make large sashes in exposed locations ? • The 46mm thick sash can be fabricated in sashes up to 1800mm high. • We have successfully tested sashes in all three hardware options to prove that the hardware can support these strong sashes. • We proof tested the sash in positive and negative direction. This is not always done with competitor products. But we had to make sure the sashes would stay in the building under extreme negative loads.	Yes	
High quality hardware ? • We offer three locking options: Cam handles - Not suitable for windows requiring flyscreens. Manual chain winders - With stainless steel chain and corrosion resisting base. Electric winders - Concealed with touch pad activation. All sashes hang on heavy duty four bar stays designed to carry the weight of heavy double glazed awning or casement sashes.	Yes	
Can we fit flyscreens ? • Flyscreens can be fitted to awning sashes with winders. The flyscreen nests into the winder base and is held against the jamb/mullion with spring nylon clips.	Yes	
Can the awning frame be coupled to other thermal products ? • We have thermally broken couplers that allow the awning to be clipped to hinged or bi-fold doors.	Yes	

These are what we see as the most important points to be checked - Compare us with the others.

miro





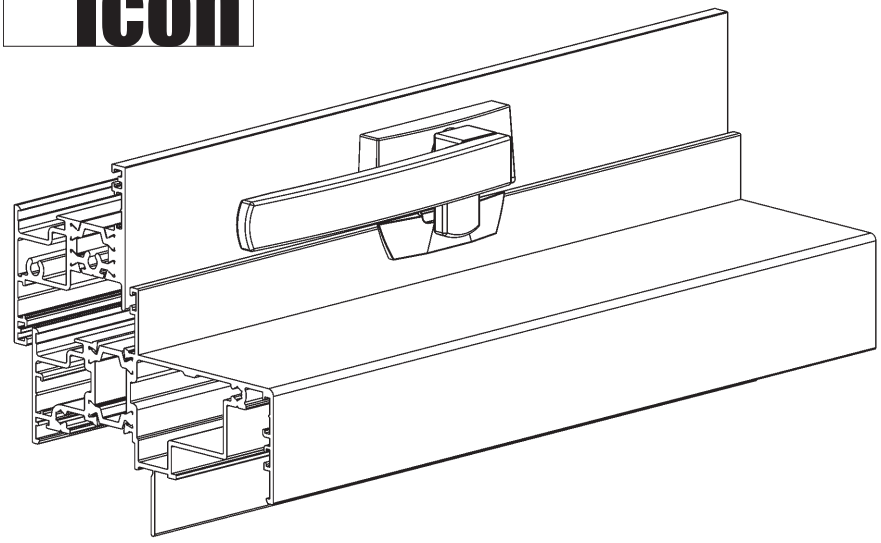
Manual Cam Handles

Fitted to awnings and casements that won't be fitted with flyscreens.

Main Features:

- Wedgeless - The keeper folds up as the cam rotated up, staying with the cam handle as the sash is opened. This feature removes the keeper fixings from the frame upstand. These fixings can damage sash to frame seal.
- Concealed cam to sash fixings.
- Besides the standard colour range we can offer the Miro cam (shown above) in an extensive range of special colours.
- The ICON cam handles (shown below) only come in 316 stainless steel finish.

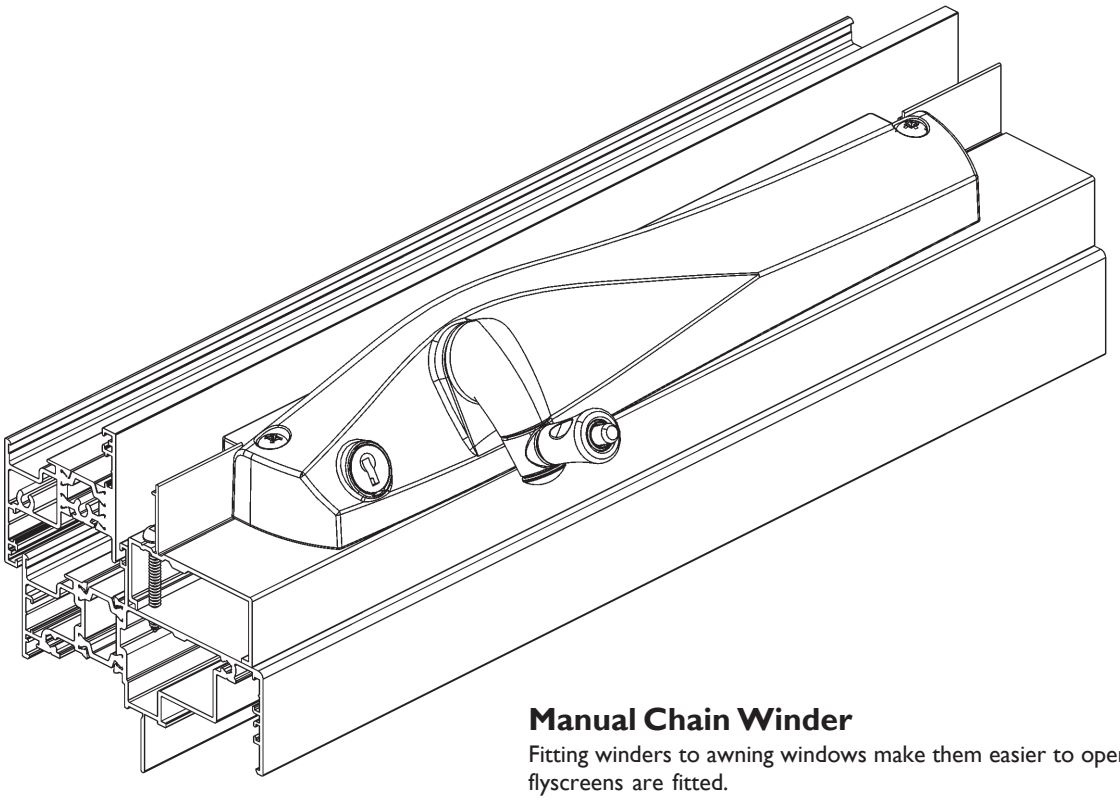
icon



Architectural Information

Series 726 Thermal Heart™ Awning Window

Hardware Makes the Difference

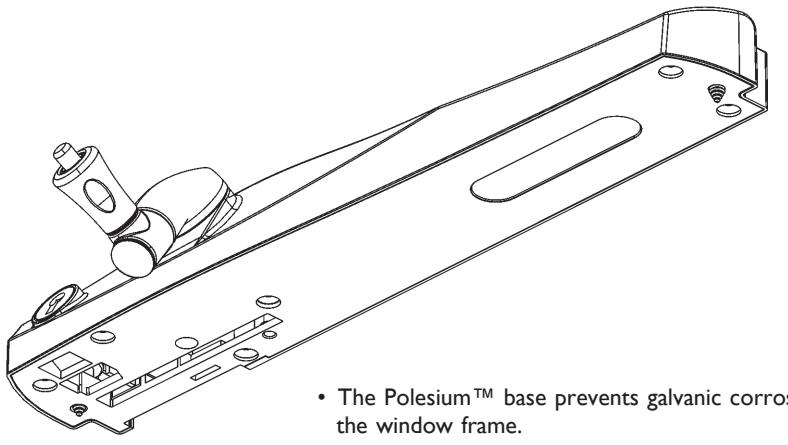


Manual Chain Winder

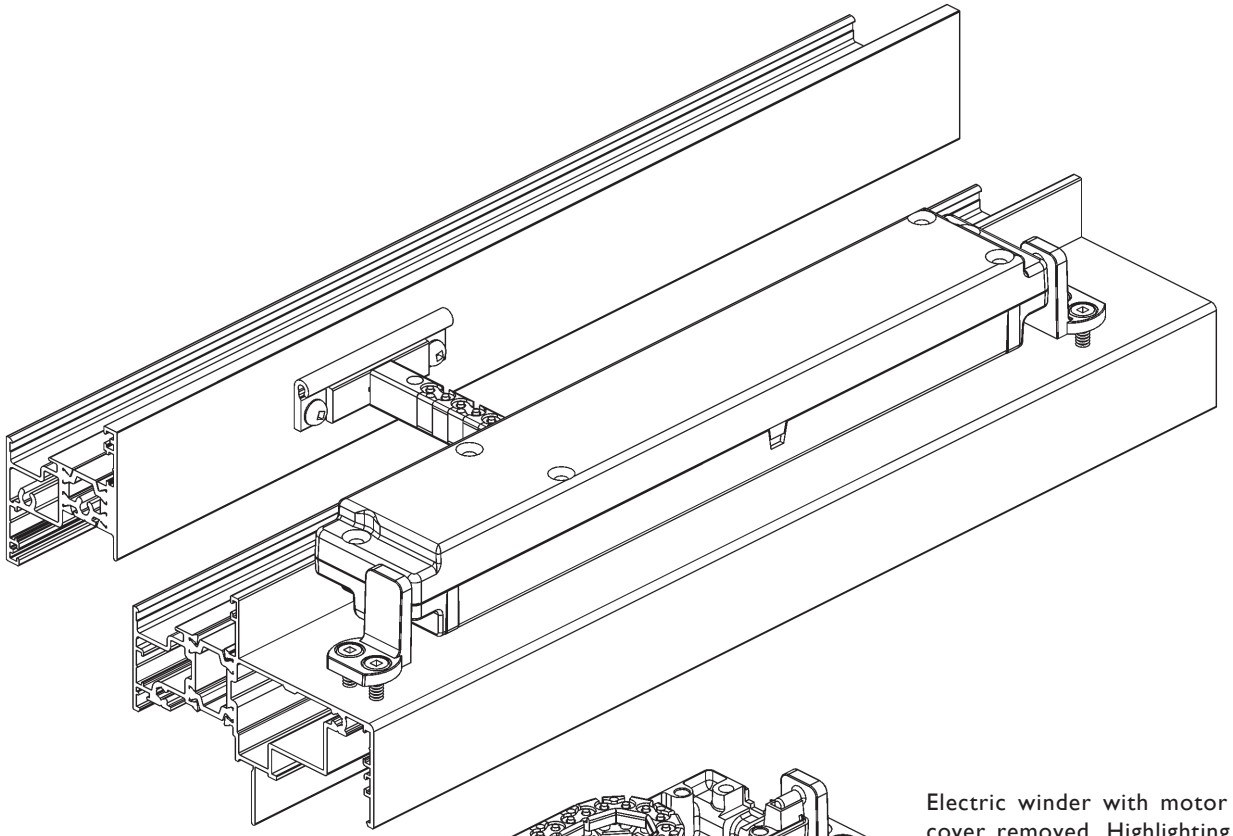
Fitting winders to awning windows make them easier to open and close when flyscreens are fitted.

Main Features:

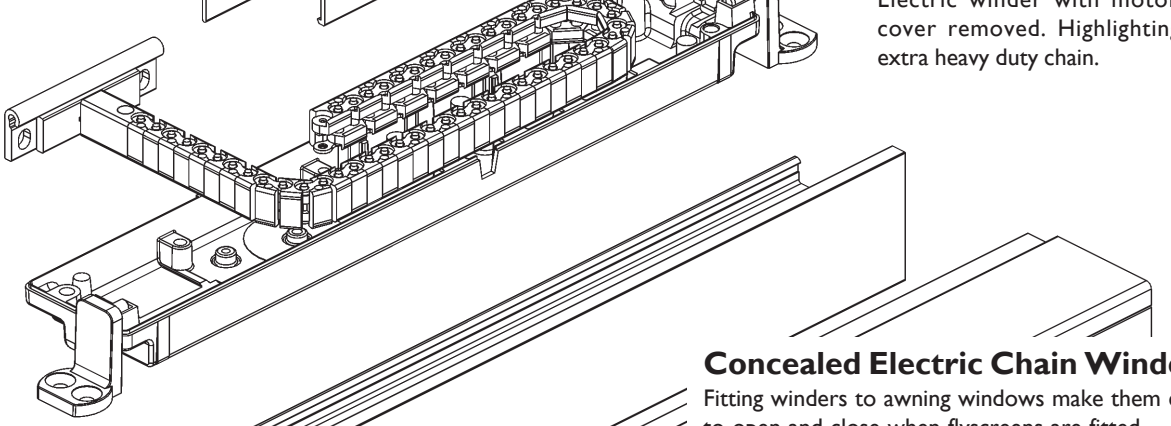
- Corrosion resistant 304 stainless steel chains are standard.
- High engineered corrosion resistant Polesium™ base protects both winder and window sill from galvanic corrosion.
- Ten (10) year manufactures warranty.
- Key locking standard on Vantage winders.
- Can be keyed to match other Vantage key lock windows.
- Screw fixing points can be subjected to excessive negative wind load when sashes are open. To resist this load we have thickened up the frame and sash at the fixing points.
- Besides the standard colour range we can offer these winders in an extensive range of special colours.



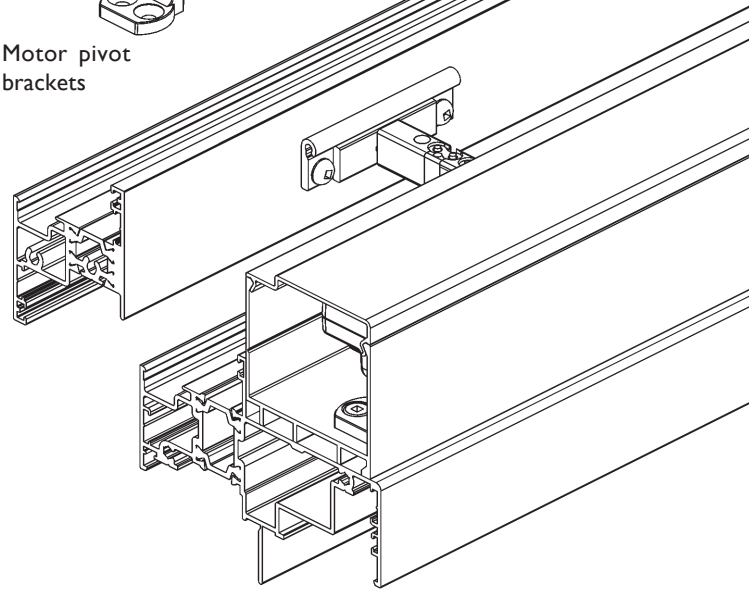
- The Polesium™ base prevents galvanic corrosion between the winder and the window frame.



Electric winder with motor top cover removed. Highlighting the extra heavy duty chain.



Motor pivot brackets



Concealed Electric Chain Winder

Fitting winders to awning windows make them easier to open and close when flyscreens are fitted.

Main Features:

- These electric winders are ideal for elevated sashes where access to cam handles or manual winder would be difficult/dangerous.
- Push button control or multi control touch pad available.
- Custom extruded aluminium box contains and conceals the winder body.
- Snap-on cover has front recess to accept optional flyscreen. This cover can be removed to allow access to the winder body for possible future maintenance.
- Extra heavy duty chrome plated chain. The chain is that strong the winder body has to pivot as the sash moves through opening arc.
- Sashes with electric winder can be fitted with optional rain sensor that will close sash automatically when it rains and water intrusion is detected.
- Seven (7) year manufactures warranty.

Architectural Information

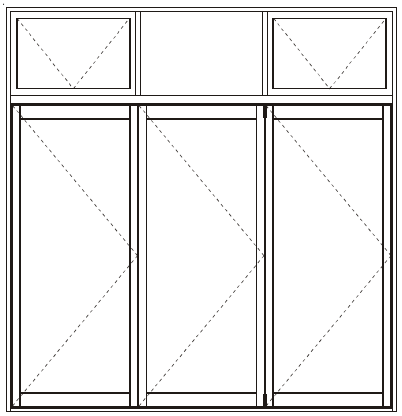
Series 726 Thermal Heart™ Awning Window

Highlight Coupler

THERMAL HEART

Highlight Couplers

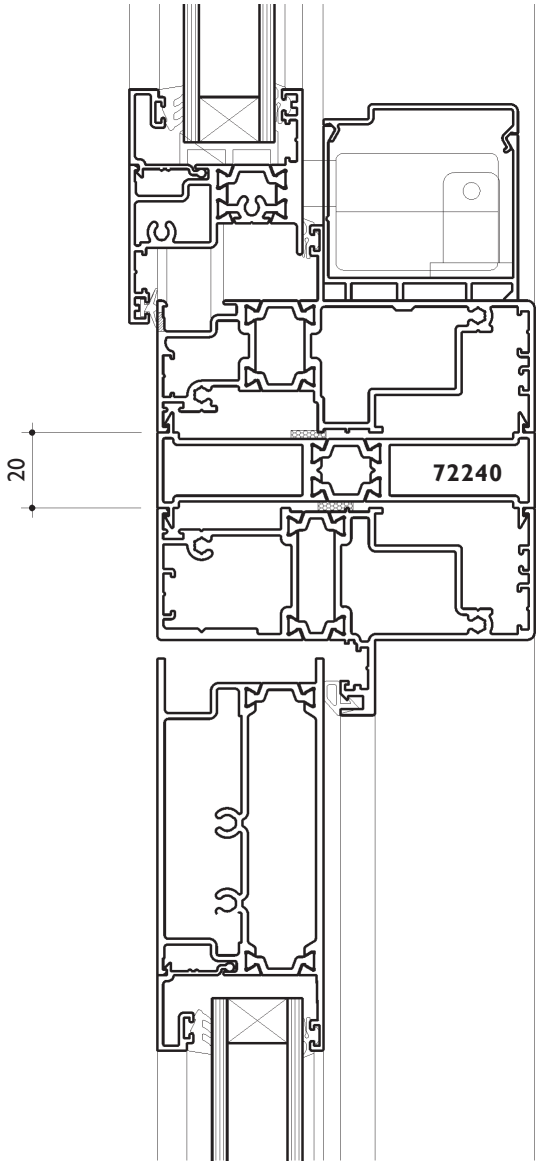
We have thermally broken couplers that will join awning frame to hinged or bi-fold doors as shown below.



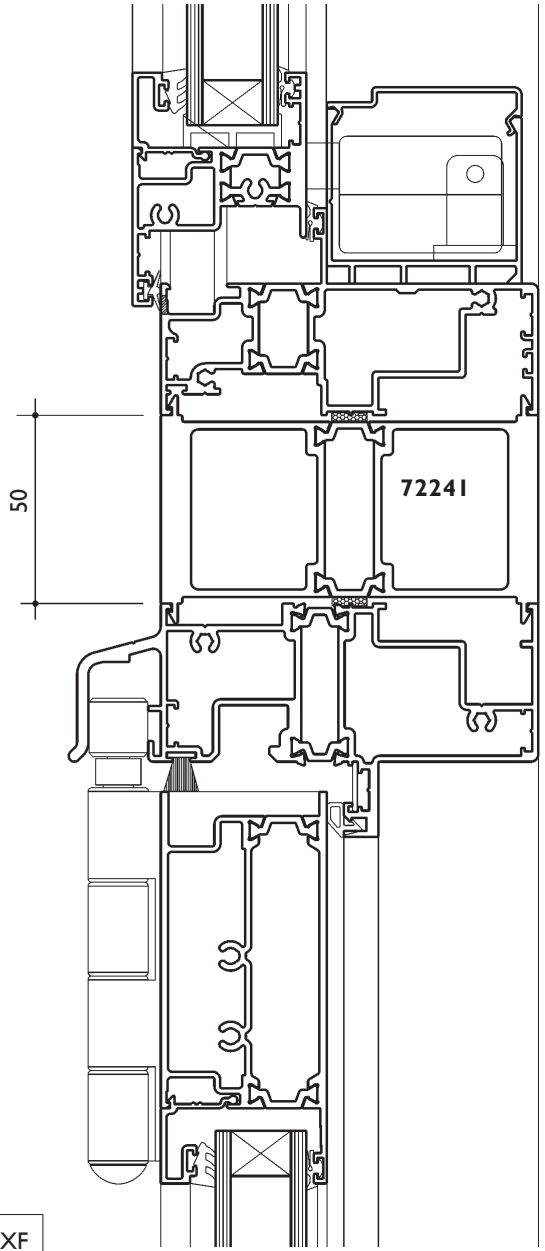
Typical strength examples:
With an awning frame 600mm high over a door 2400mm high by 3600mm wide Standard coupler 72240 would rate 1756Pa Serviceability (1/150) 2844Pa Ultimate. Heavy coupler 72241 would rate 2745Pa Serviceability (1/150) 4961Pa Ultimate.

From this you can see that the standard coupler would suit most projects and the heavy coupler would get used on wider bi-fold doors.

Awning highlight



Hinged door



Bi-fold door

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