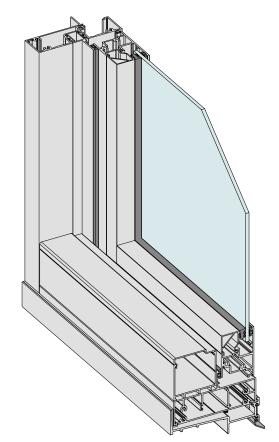


DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

Series 466 ARCHITECTURAL AWNING WINDOW

KEY FEATURES/PERFORMANCE CHARACTERISTICS



- This 102mm thick commercial grade awning window has been designed with bold frame lines and thick (strong) sashes that can carry heavy glass including 24mm thick double glazing.
- The perimeter frame has been designed to make installation into • brick veneer and cavity brick easier with built-in nailing fins (weather bars).
- The extra strong sashes allow large sash windows to be fabricated • for high wind load areas.
- Splayed or square glazing beads available. •
- Awning sashes can be fitted with cam handles, manual chain winders or concealed electric winders. The winder options suit fixed flyscreen installation.
- Sashes are hung on heavy duty four-bar stainless steel or aluminium • stays
- Sashes will accept a variety of glass thicknesses from 4mm single ٠ panes to 24mm insulating glass units.
- Two non-facing (recessed) sash designs cover internal and external glazing.

\ »	SOUND	REDUCTION
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A number of glass combinations have been tested with this system to acheive sound reduction numbers listed below.

Glass Description	Rating
6.50mm VLam Hush glass	Rw37
6mm Toughened glass /12mm air gap / 6.50mm VLam Hush glass	Rw40
8.5mm VLam Hush glass /10mm air gap / 6.50mm VLam Hush glass	Rw41
4mm Glass	Rw32
6.38mm Laminated glass	Rw34
10.38mm Laminated glass	Rw36
24mm IGU (6mm glass / 12mm air gap / 6mm glass	Rw35

NOTE: Results highlighted in grey are from tests conducted on similar Series 616.



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Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-032-01	5Clr	7.0	0.57	0.50	0.12
AWS-032-02	5SG	7.0	0.40	0.28	0.12
AVVS-032-03	5GY	7.0	0.37	0.41	0.12
AVVS-032-04	6.38Sct	5.9	0.44	0.48	0.12
AVVS-032-05	6.38VLam	7.0	0.52	0.52	0.12
AVVS-032-06	4SnClr	6.2	0.40	0.40	0.12
AVVS-032-07	6SnClr	6.2	0.40	0.40	0.12
AVVS-032-08	6EVanBG	6.0	0.31	0.33	0.12
AVVS-032-09	6EVanClr	6.0	0.41	0.39	0.12
AWS-032-10	6EVanGy	6.0	0.29	0.19	0.12
AVVS-032-11	6EVanSpB	6.0	0.26	0.23	0.12
AWS-032-12	6EVanSpGn	6.0	0.26	0.28	0.12
AWS-032-13	6.38LamGy	7.0	0.25	0.08	0.12
AWS-032-14	6.38TLam	7.0	0.28	0.20	0.12
AWS-032-15	6.38SnClr	6.1	0.39	0.40	0.12
AWS-032-16	6.38SnGy	6.1	0.30	0.19	0.12
AWS-032-17	6.38CPClr	5.9	0.45	0.48	0.12
AWS-032-18	6.38CPGn	5.9	0.34	0.42	0.12
AWS-032-19	6.38CPGy	5.9	0.34	0.23	0.12
AWS-032-20	I0SnClr	5.6	0.33	0.34	0.12
AVVS-032-21	10.38LamClr	5.8	0.37	0.38	0.12
AVVS-032-22	10.38LamSpGy	6.6	0.40	0.38	0.12
AWS-032-23	I 0.38Tlam	6.6	0.19	0.06	0.12
AVVS-032-24	10.38SnClr	6.0	0.36	0.37	0.12

Series 466 Architectural Awning Window Internal view.

Maximum Panel Height*	1800mm
Maximum Panel Width*	1200mm **
Maximum Glass Thickness	≤24mm

* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, email techsupport@awsaustralia.com.au

** Over width awning sashes are available, contact local AWS sales office for details.

2D & 3D CAD FILES AVAILABLE

To access 2D & 3D CAD models visit our online specifier resource centre www.specifyaws.com.au

MORE INFORMATION

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

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DATE:	MAY 13
REPLACES:	JUNE 06
SCALE:	NOT TO SCALE

HOW TO SPECIFY

SYSTEM NAME

Elevate[™] Aluminium Systems Series 466 Architectural Awning Window

FINISH

Powder Coat Anodised

COLOUR

Select from the AWS range of approved powder coat or anodising colours

GLASS

Specify thickness ≤24mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)



Specification Assistance

Need help specifying this product?Emailtechsupport@ awsaustralia.com.au and our qualified technical advisors will assist you with product selection and specification for your project.

NOTES

- I. Uw is the whole window U-value 2. SHGCw is the whole window solar heat gain

3.Tvw is the whole window visible (light) transmittance 4. Maximum air infiltration is 5.0L/s.m2 at a positive pressure difference of 75 Pa as measured according to AS 2047

5. Static performance (Uw SHGCw Tvw Tdw) calculated using Window 6.3 and Therm 6.3 software (LBNL), 1999-2010

6. Results disclosed at Australian Fenestration Rating Council (AFRC) regulations. 7. Ratings for use with Section J of the Building Code of Australia - Class 2-9

For the latest WERS data for this system visit www.wers.net



DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

Series 466 ARCHITECTURAL AWNING WINDOW

WERS RATINGS

Double Glazed

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-032-25	4/10/4	5.0	0.47	0.47	0.12
AWS-032-26	5/8/5	4.4	0.45	0.43	0.12
AWS-032-27	5/8/5	5.0	0.46	0.47	0.12
AVVS-032-28	3/12Ar/3ET	4.3	0.46	0.44	0.12
AVVS-032-29	3SG/12/3	4.9	0.34	0.40	0.12
AVVS-032-30	4/10/4ET	4.5	0.45	0.43	0.12
AWS-032-31	4Az/10/4ET	4.5	0.28	0.36	0.12
AWS-032-32	5SG/8Ar/5ET	4.5	0.28	0.36	0.12
AWS-032-33	4SnClr/10/4	4.7	0.35	0.36	0.12
AVVS-032-34	4SnClr/10Ar/4	4.5	0.35	0.36	0.12
AVVS-032-35	6.38LamClr/12/6	4.8	0.45	0.46	0.12
AWS-032-36	6.38LamClr/12Ar/6	4.8	0.45	0.46	0.12
AWS-032-37	6.38SnClr/12/6	4.5	0.34	0.35	0.12
AWS-032-38	6.38SnClr/12Ar/6	4.4	0.34	0.35	0.12
AWS-032-39	6.38CPClr/8/4	4.6	0.40	0.43	0.12
AVVS-032-40	6.38CPClr/8Ar/4	4.4	0.40	0.43	0.12
AVVS-032-41	6.38CPClr/12/6	4.4	0.39	0.43	0.12
AVVS-032-42	6.38CPClr/12Ar/6	4.3	0.39	0.43	0.12
AVVS-032-43	6.38CPGy/8/4	4.6	0.29	0.21	0.12
AVVS-032-44	6.38CPGy/8Ar/4	4.5	0.29	0.21	0.12
AWS-032-45	6.38CPGy/12/6	4.4	0.28	0.20	0.12
AVVS-032-46	6.38CPGy/12Ar/6	4.3	0.28	0.20	0.12
AVVS-032-47	6.38LamGy/12/6	4.8	0.18	0.07	0.12
AVVS-032-48	6.38LamGy/12Ar/6	4.8	0.18	0.07	0.12
AVVS-032-49	6.38SnGy/12/6	4.4	0.33	0.35	0.12
AWS-032-50	6.38SnGy/12Ar/6	4.4	0.33	0.35	0.12
AWS-032-51	6.38TLam/12/6	4.8	0.22	0.17	0.12
AWS-032-52	6.38TLam/12Ar/6	4.8	0.21	0.17	0.12
AWS-032-55	6.38EVanClr/12/6	4.8	0.37	0.35	0.12
AWS-032-56	6.38EVanClr/12Ar/6	4.8	0.37	0.35	0.12
AWS-032-57	6.38EVanGy/12/6	4.5	0.24	0.17	0.12
AWS-032-58	6.38EVanGy/12Ar/6	4.3	0.23	0.17	0.12
AWS-032-59	10.38LamClr/8/6	4.9	0.34	0.35	0.12
AVVS-032-60	10.38LamClr/8Ar/6	4.8	0.34	0.35	0.12
AVVS-032-61	10.38SnClr/8/6	4.7	0.32	0.34	0.12
AWS-032-62	10.38SnClr/8Ar/6	4.5	0.31	0.34	0.12
AWS-032-63	10.38LamGy/8/6	4.9	0.14	0.06	0.12
AVVS-032-64	10.38LamGy/8Ar/6	4.8	0.14	0.06	0.12
AVVS-032-65	10.38TLamGy/8/6	4.6	0.30	0.31	0.12

NOTES

I. Uw is the whole window U-value 2. SHGCw is the whole window solar heat gain coefficient 3. Tww is the whole window visible (light) transmittance 4. Maximum air infiltration is 5.0L/s.m2 at a positive pressure differ ence of 75 Pa as measured according to AS 2047 5. Static performance (Uw SHGCw Tvw Tdw) calculated using Window 6.3 and Therm 6.3 software (LBNL), 1999-2010 6. Results disclosed at Australian Fenestration Rating Council (AFRC) regulations. 7. Ratings for use with Section J of the Building Code of Australia - Class 2-9

For the latest WERS data for this system visit www.wers.net

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DESIGN FEATURES

This high performance awning and casement window system has been designed around custom frame and sash extrusions.

areas, refer Pascal rating tables later in these notes.

Splayed or square glazing beads available.

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.

Fixed lowlights/sidelights can be single or double glazed.

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

Sashes will accept a variety of glass thicknesses from 4mm single panes to 24mm insulating glass units.

Two non-facing (recessed) sash designs cover internal and external glazing, both sash options are detailed in these notes.

The nailing fin frames are suitable for brick veneer and cavity brick wall installations. Two jamb sizes 30mm standard as shown right or alternative 44mm wide.

Compatibility:

We have designed a number of compatible framing suites that can be coupled or used together:

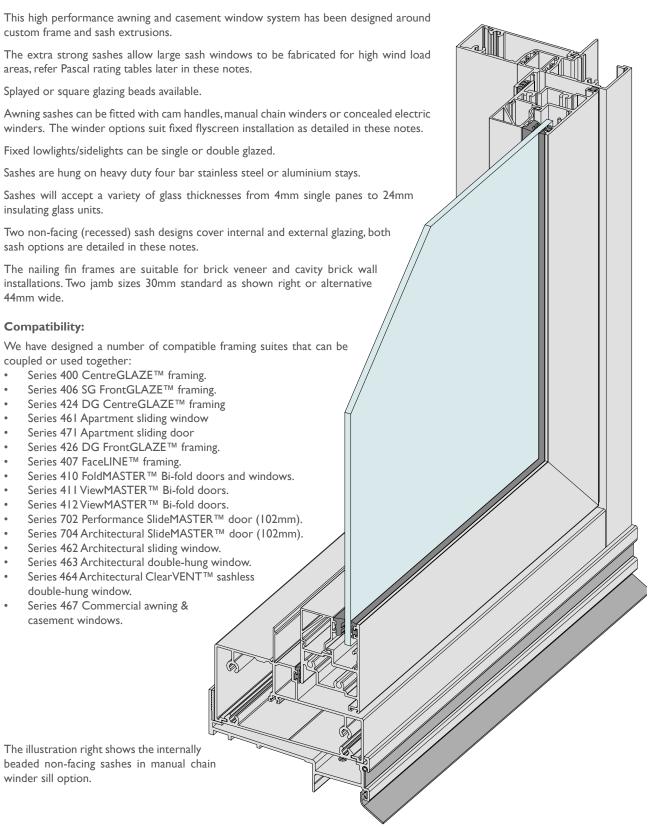
- Series 400 CentreGLAZE[™] framing.
- Series 406 SG FrontGLAZE™ framing. •
- Series 424 DG CentreGLAZE™ framing .
- Series 461 Apartment sliding window .
- Series 471 Apartment sliding door .
- Series 426 DG FrontGLAZE[™] framing. .
- Series 407 FaceLINE[™] framing. •
- Series 410 FoldMASTER™ Bi-fold doors and windows. •
- Series 411 ViewMASTER™ Bi-fold doors. •
- Series 412 ViewMASTER™ Bi-fold doors. •
- Series 702 Performance SlideMASTER[™] door (102mm). •
- Series 704 Architectural SlideMASTER[™] door (102mm). .
- Series 462 Architectural sliding window. •
- . Series 463 Architectural double-hung window.
- Series 464 Architectural ClearVENT[™] sashless • double-hung window.
- Series 467 Commercial awning & casement windows.

The illustration right shows the internally beaded non-facing sashes in manual chain winder sill option.

LAWS

DATE: REPLACES: JUNE 06 SCALE:

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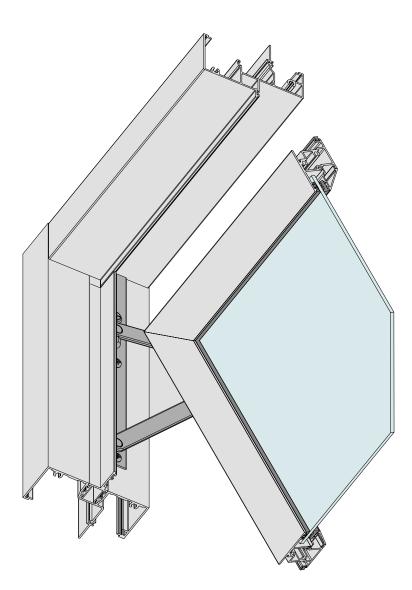




DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

Series 466 ARCHITECTURAL AWNING WINDOW

TYPICAL CONFIGURATIONS



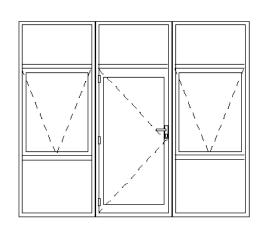
The illustration above shows the non-facing externally beaded sash with heavy duty stays.

When we talk about non-facing throughout these notes we mean: Recessed sash with a perimeter recess designed to match adjoining hinged doors.

Water Resistance - 600Pa

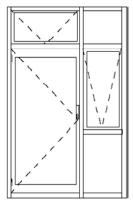
LAWS

We always recommend sub-sills under commercial windows.



We can fit awnings in sidelights as shown above and the highlight as shown below.

Sashes and fixed sidelights within 300mm of door opening are to be glazed with grade 'A' safety glass in accordance with AS 1288.



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DESIGN FEATURES

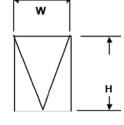
Rating tables for alternative sash side rails on this page. **S** = Serviceability limit state (deflection = L/180 or deflection L/250). **U** = Ultimate strength limit state (factored yield strength = 104MPa).

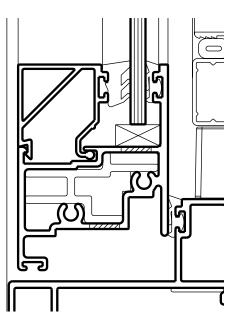
These tables have been calculated using section properties. A typical assembly has been tested as per the requirements of AS 2047,

Type 'A' and type	'C' windo	ws
Height 'A' or 'C'	Width	
mm	mm	
	810	L/180 S
1500		L/250 S
		U
		L/180 S
1500	1010	L/250 S
		U
		L/180 S
1500	1210	L/250 S
		U
		L/180 S
1600	810	L/250 S
		U
		L/180 S
1600	1010	L/250 S
		U
	1210	L/180 S
1600		L/250 S
		U
	810	L/180 S
1700		L/250 S
		U
		L/180 S
1700	1010	L/250 S
		U
		L/180 S
1700	1210	L/250 S
		U
		L/180 S
1800	810	L/250 S
		U
		L/180 S
1800	1010	L/250 S
		U
		L/180 S
1800	1210	L/250 S
		U

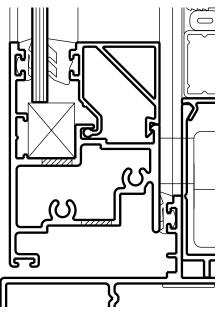
Wind Ratings (Pa) sashes.

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REPLACES:	JUNE 06
SCALE:	NOT TO SCALE





Externally beaded sash 72840



Internally beaded sash 72841



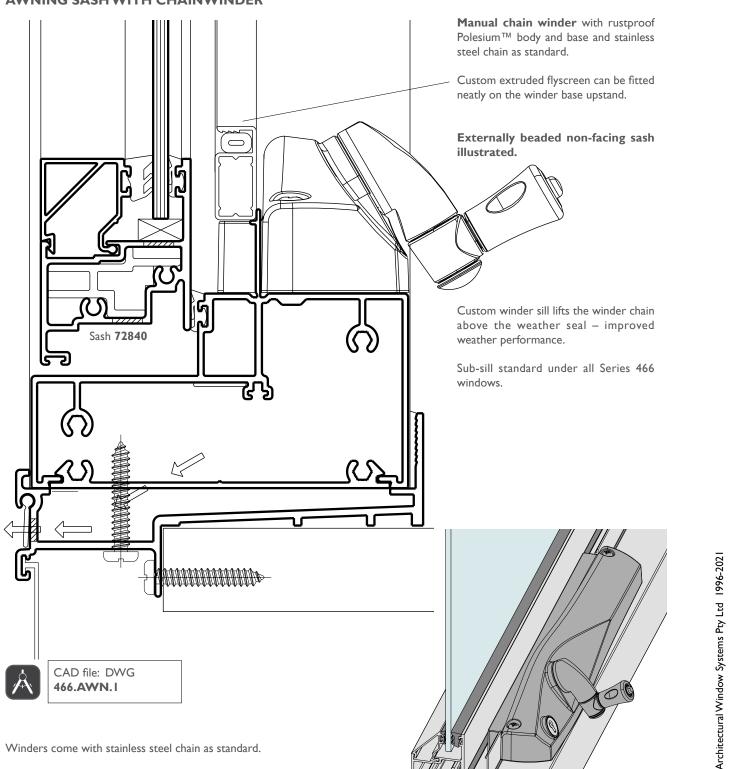
DATE: MAY 13 REPLACES: JUNE 06 SCALE: FULL SIZE & NTS

Series 466



Standard chain throw is 250mm, heavier sashes will have a shorter

throw chain to suit the sash weight.



AWNING SASH WITH ELECTRIC WINDER

Concealed electric winder.

onto the winder cover.

Snap-on cover allows future access to winder.

glass thickness from 4mm to 24mm.

Custom winder base and cover designed specifically for this winder, lifts the winder chain above the weather seal – improved weather performance.

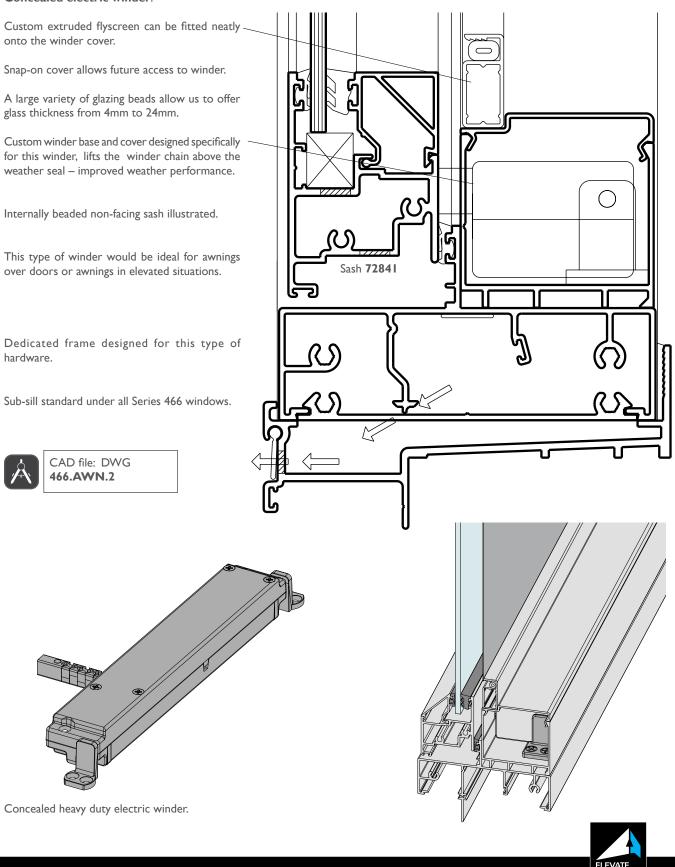
Internally beaded non-facing sash illustrated.

This type of winder would be ideal for awnings over doors or awnings in elevated situations.

Dedicated frame designed for this type of hardware.



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LAWS

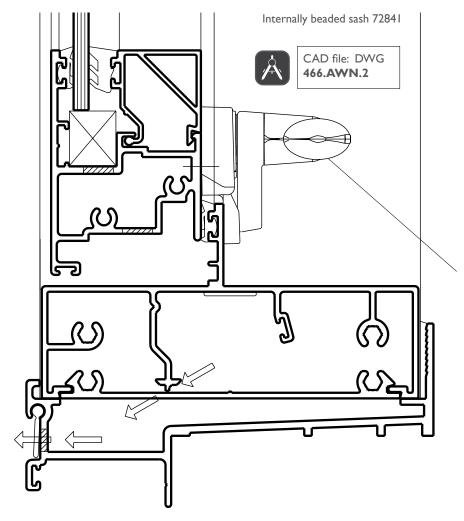
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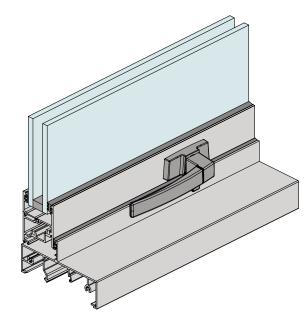
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DATE: APR 21 REPLACES: MAY 13 SCALE: FULL SIZE & NTS

Series 466 ARCHITECTURAL

AWNING SASH WITH CAM HANDLE







ICON[™] Helix Cam handle

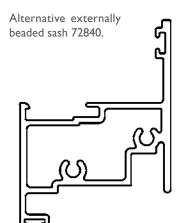
This cam handle is designed to match other $\mathsf{ICON}^{\mathsf{TM}}$ hardware.

The important features with this type of cam handle: • Keeper is part of the cam handle.

• No keeper fixings required through the weather bar.

The ICON $^{\rm TM}$ Helix Cam handle is available only in 316 stainless steel finish.

Sub-sill standard under all Series 466 windows.



Architectural Window Systems Pty Ltd 1996-2021

JAMB OPTIONS

Standard 30mm jamb.

This narrow 30mm jamb matches the head and sill external 30mm face.

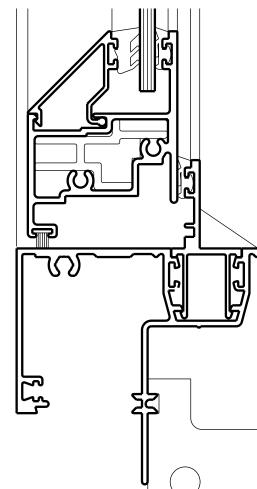
Detail illustrates the recessed non-facing internally glazed sash. This sash with the appropriate glazing bead will accept glass from 4mm to 24mm thick.

Optional Elevate heavy duty extruded flyscreen nests into jamb adaptor.

Jamb adaptor snaps into central glazing pocket.

Custom frame filler used for additional timber reveal fixings to ensure that these reveals are held tight against the frame.

30mm jamb will also accept the galvanised building-in lugs shown below on alternative 44mm jamb.



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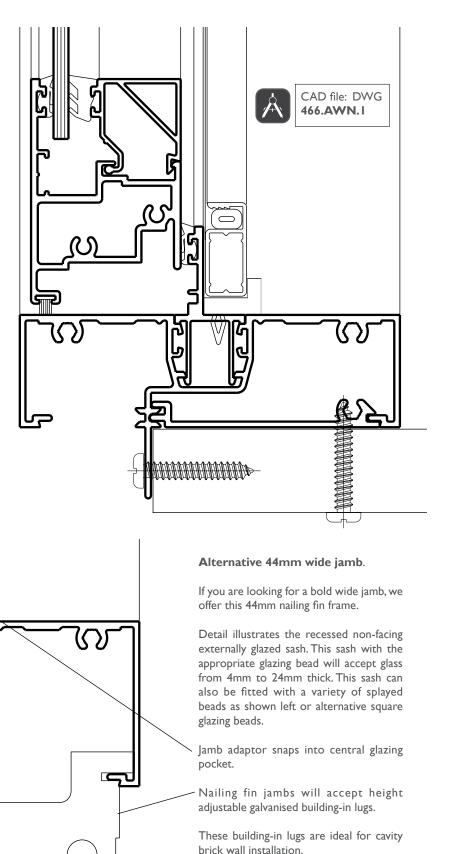
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MAY 13 JUNE 06 FULL SIZE

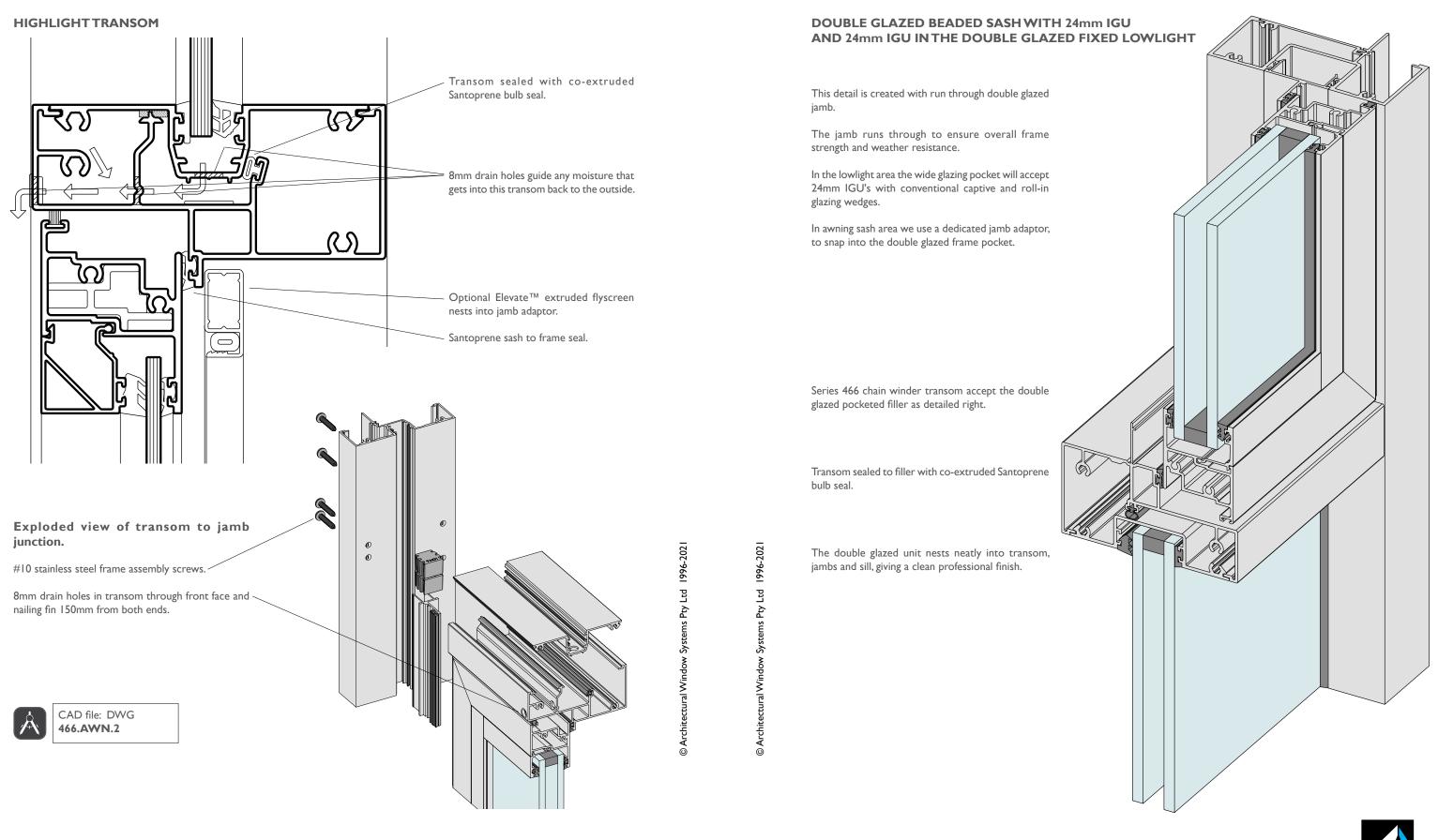


ARCHITECTURAL SERIES

Series 466 ARCHITECTURAL AWNING WINDOW

DATE: MAY 13 REPLACES: JUNE 06 SCALE: FULL SIZE & NTS

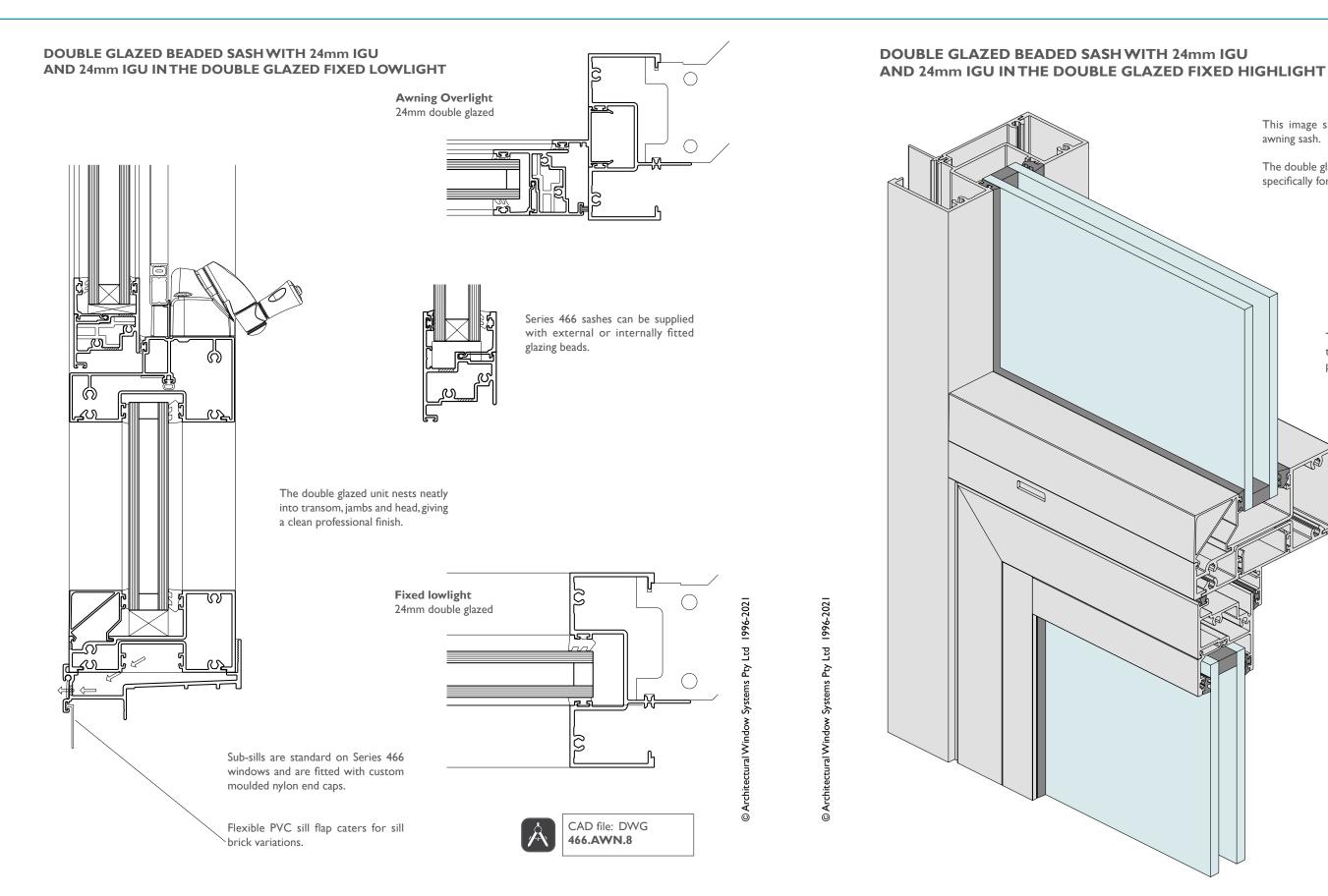
Series 466 ARCHITECTURAL AWNING WINDOW



DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

Series 466 ARCHITECTURAL AWNING WINDOW



LAWS

DATE: MAY 13 JUNE 06 REPLACES: SCALE: HALF FULL SIZE

This image shows double glazed fixed light over awning sash.

The double glazed nailing fin jamb has been designed specifically for residential applications.

The double glazed unit nests neatly into transom, jambs and head, giving a clean professional finish.



DATE: MAY 13 REPLACES: JUNE 06 SCALE: NOT TO SCALE

CASEMENT SASH

