



Series 467  
Architectural Awning/Casement Window  
with Truth™ Hardware



Photo: Geoff Comfort. Windows: Taylors Windows Supply.

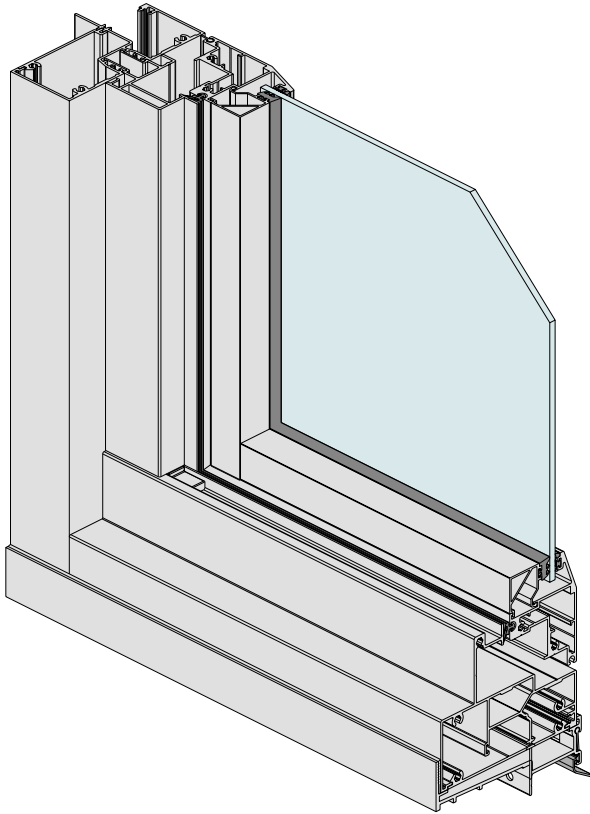


# Series 467 ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## KEY FEATURES/PERFORMANCE CHARACTERISTICS



- This high performance awning and casement window has been designed to accept Truth™ hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.
- The extra strong sashes allow large sash windows to be fabricated for high wind load areas. Successfully tested to resist 450Pa water.
- Fixed sidelights/lowlights and highlights can be single or double glazed.
- The perimeter frame has been designed to make installation into brick veneer and cavity brick easier with built-in nailing fins (weather bars).
- The Truth™ hardware can resist very high negative wind loads with the use of winders and side latches.
- Series 467 accepts flyscreens that tuck into head and sill recess.
- On casements it's possible to clean the external glass face when the sash is in the 90° open position

Series 467 Architectural Awning Window with Truth™ Hardware  
External view.

Maximum Panel Height*	2022mm
Maximum Panel Width*	1400mm **
Maximum Glass Thickness	≤24mm

\* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, email [techsupport@awsaustralia.com.au](mailto: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](http://www.specifyaws.com.au)



### MORE INFORMATION

For the latest updates regarding this product visit our website  
[www.elevatealuminium.com.au](http://www.elevatealuminium.com.au)

# Series 467

## ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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



### SOUND REDUCTION

A number of glass combinations have been tested with this system to achieve 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.



### WERS RATINGS

#### Single Glazed

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
AWS-032-03	5GY	7.0	0.37	0.41	0.12
AWS-032-04	6.38Sct	5.9	0.44	0.48	0.12
AWS-032-05	6.38VLam	7.0	0.52	0.52	0.12
AWS-032-06	4SnClr	6.2	0.40	0.40	0.12
AWS-032-07	6SnClr	6.2	0.40	0.40	0.12
AWS-032-08	6EVanBG	6.0	0.31	0.33	0.12
AWS-032-09	6EVanClr	6.0	0.41	0.39	0.12
AWS-032-10	6EVanGy	6.0	0.29	0.19	0.12
AWS-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	10SnClr	5.6	0.33	0.34	0.12
AWS-032-21	10.38LamClr	5.8	0.37	0.38	0.12
AWS-032-22	10.38LamSpGy	6.6	0.40	0.38	0.12
AWS-032-23	10.38Tlam	6.6	0.19	0.06	0.12
AWS-032-24	10.38SnClr	6.0	0.36	0.37	0.12

### HOW TO SPECIFY

#### SYSTEM NAME

Elevate™ Aluminium Systems Series  
 467 Architectural Awning Window  
 with Truth™ Hardware

#### 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? Email [techsupport@awsaustralia.com.au](mailto:techsupport@awsaustralia.com.au) and our qualified technical advisors will assist you with product selection and specification for your project.

#### NOTES

1. Uw is the whole window U-value
2. SHGCw is the whole window solar heat gain coefficient
3. Twv is the whole window visible (light) transmittance
4. Maximum air infiltration is 5.0L/s.m<sup>2</sup> at a positive pressure difference of 75 Pa as measured according to AS 2047
5. Static performance (Uw SHGCw Twv Tdw) calculated using WWindow 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 [wers.net](http://wers.net)

Series 467

## ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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



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
AWS-032-28	3/12Ar/3ET	4.3	0.46	0.44	0.12
AWS-032-29	3SG/12/3	4.9	0.34	0.40	0.12
AWS-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
AWS-032-34	4SnClr/10Ar/4	4.5	0.35	0.36	0.12
AWS-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
AWS-032-40	6.38CPClr/8Ar/4	4.4	0.40	0.43	0.12
AWS-032-41	6.38CPClr/12/6	4.4	0.39	0.43	0.12
AWS-032-42	6.38CPClr/12Ar/6	4.3	0.39	0.43	0.12
AWS-032-43	6.38CPGy/8/4	4.6	0.29	0.21	0.12
AWS-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
AWS-032-46	6.38CPGy/12Ar/6	4.3	0.28	0.20	0.12
AWS-032-47	6.38LamGy/12/6	4.8	0.18	0.07	0.12
AWS-032-48	6.38LamGy/12Ar/6	4.8	0.18	0.07	0.12
AWS-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
AWS-032-60	10.38LamClr/8Ar/6	4.8	0.34	0.35	0.12
AWS-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
AWS-032-64	10.38LamGy/8Ar/6	4.8	0.14	0.06	0.12
AWS-032-65	10.38TLamGy/8/6	4.6	0.30	0.31	0.12

## NOTES

1. Uw is the whole window U-value
2. SHGCw is the whole window solar heat gain coefficient
3. Twv is the whole window visible (light) transmittance
4. Maximum air infiltration is 5.0L/s.m<sup>2</sup> at a positive pressure difference of 75 Pa as measured according to AS 2047
5. Static performance (Uw SHGCw Twv 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 [wers.net](http://wers.net)

# Series 467

## ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

### DESIGN FEATURES

This high performance awning and casement window has been designed to accept Truth™ Hardware. This allows us to offer very large casements and awnings fitted with scissor type winders with jamb to stile latches that secure the sashes in the closed position.

The extra strong sashes allow large sash windows to be fabricated for high wind load areas, refer Pascal rating tables later in these notes.

Successfully tested to resist 450Pa water.

Fixed sidelights/lowlights and highlights can be single or double glazed.

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

The Truth™ Hardware can resist very high negative wind loads with the use of winders and side latches.

Series 467 accepts flyscreens that tuck into head and sill recess.

On casements it's possible to clean the external glass face when the sash is in the 90° open position.

We have cut a dedicated nailing fin head/sill with built-in weather bar to cover transom details. The detail right also shows our standard nailing fin sub-sill.

The nailing-fin frame sub-sill has several important features that are worth highlighting:

- Built-in nailing fin is more waterproof.
- Frame will accept height adjustable galvanised mild steel building-in lug.
- Sill has external recess to accept PVC sill flap – if required.
- Frame will accept timber reveals.

### Compatibility:

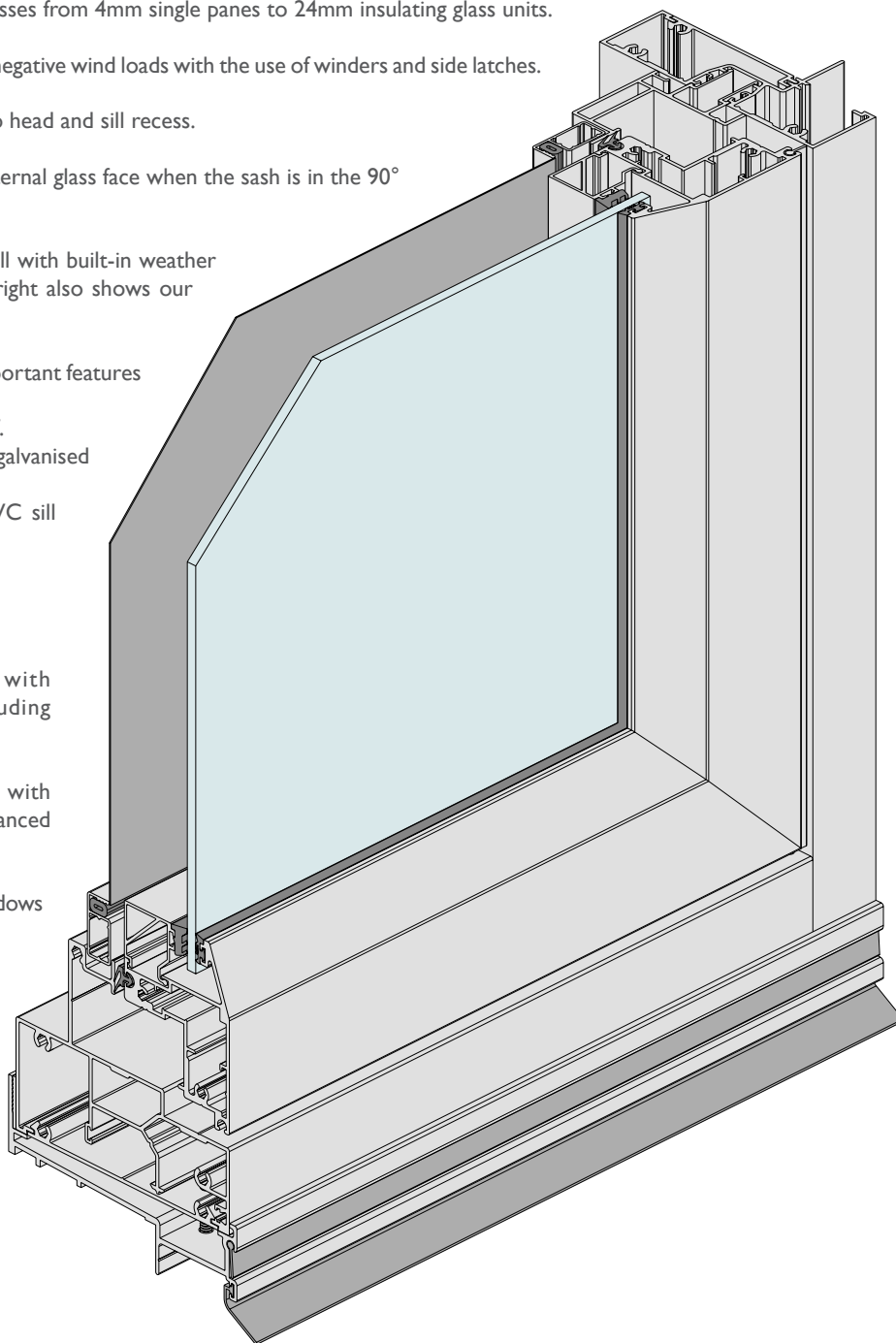
- Series 467 framing will couple with all Elevate™ 102mm frames including SlideMASTER™ windows and doors.

The illustration right shows awning sill with flyscreen fitted. Frame weathering is enhanced by using the Elevate™ nailing fin sub-sill.

We always recommend that commercial windows are fitted into sub-sills.

### Limitations

Truth™ winders don't have a key locking option.



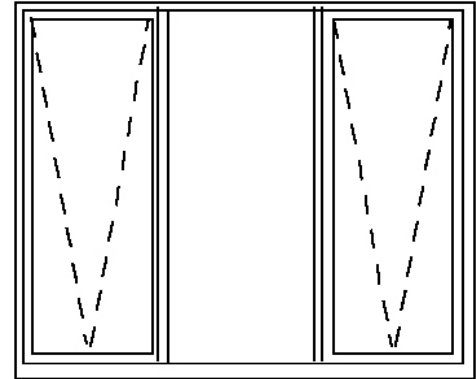
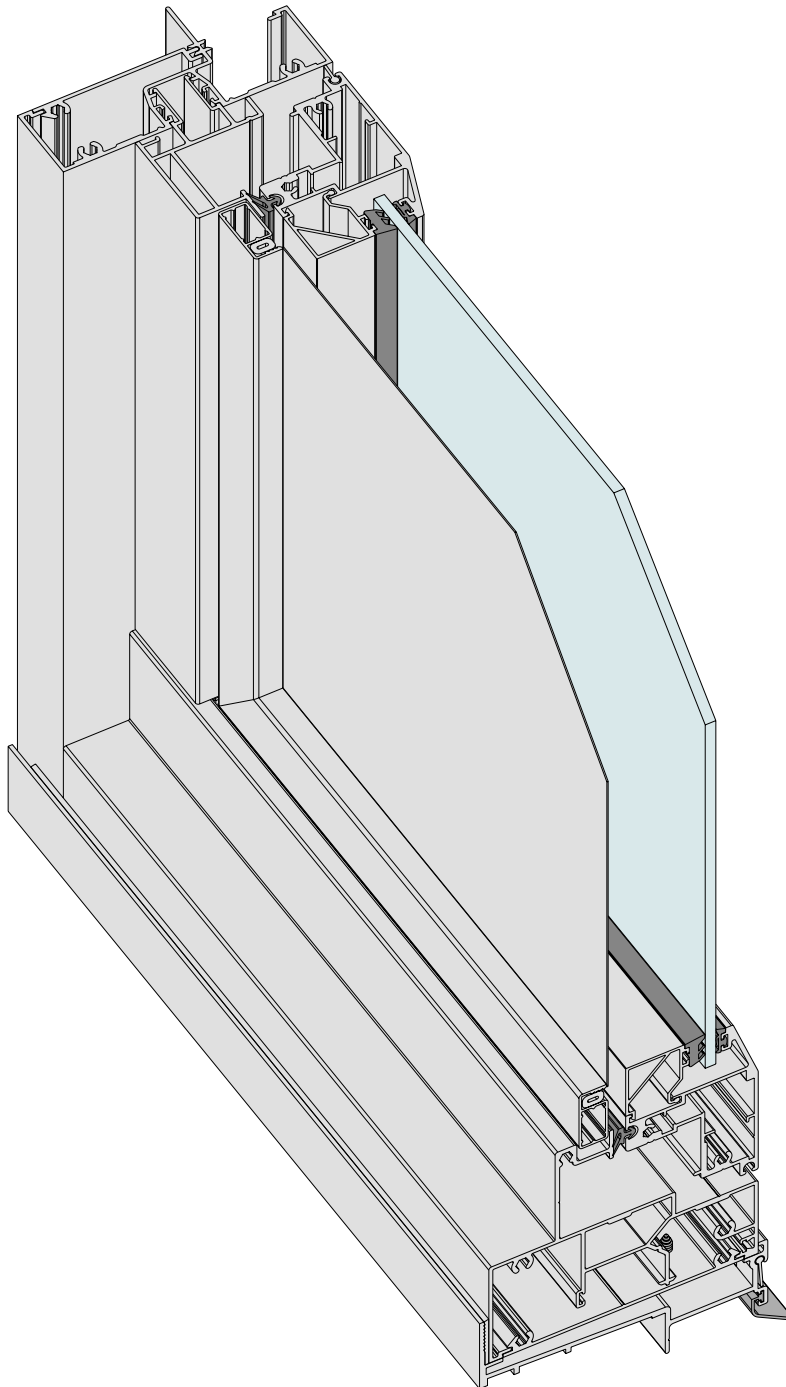
Series 467

# ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

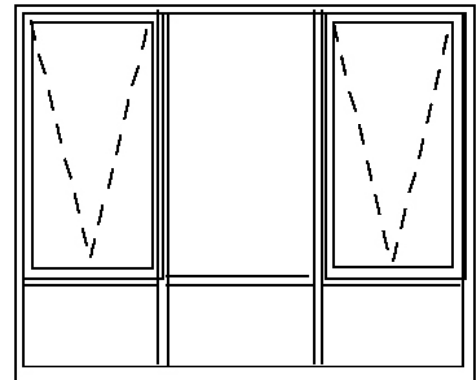
DATE: MAY 13  
 REPLACES: JUNE 06  
 SCALE: NOT TO SCALE

## TYPICAL CONFIGURATIONS



The sashes and hardware on Series 467 are designed to make full height sashes in high wind load areas as highlighted in the sash strength table shown on the following page.

Full height sashes and fixed sidelights can be mistaken for door openings and will require Grade 'A' safety glass in accordance with Australian Standard AS 1288.



Fitting a transom can save money and it's a lot easier to operate the sash winder.

If the transom is located 500mm or greater above floor line, the glass thickness requirements will be less stringent in the sash and sidelight areas.

Series 467

## ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## SASH STRENGTH

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,

## Hardware Ratings:

The ratings shown on this table apply to sashes fitted with Truth™ winder, stays and side rail latches.

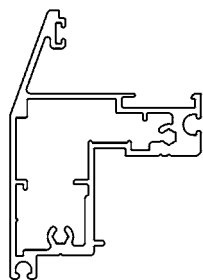
## Awning Limitations

Minimum sash width	=	450mm
Minimum sash height	=	360mm
Maximum sash width	=	1400mm**
Maximum sash height	=	2022mm
Maximum sash weight not to exceed 85kg, depending on the stays used.		

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

## Casement Limitations

Minimum sash width	=	360mm
Minimum sash height	=	540mm
Maximum sash width	=	1000mm
Maximum sash height	=	2022mm
Maximum sash weight not to exceed 43kg.		
Sash width not to exceed 2/3 of sash height.		

Sash  
 $I_{xx} = 128 \times 10^3 \text{ mm}^4$ 

type 'A' and type 'C' windows		Sashes	
Height 'A' or 'C' mm	Width mm		
1600	700	L/180 S (Pa)	3000
		L/250 S (Pa)	2710
		U (Pa)	4500
1600	900	L/180 S (Pa)	2653
		L/250 S (Pa)	2060
		U (Pa)	3979
1600	1000	L/180 S (Pa)	2374
		L/250 S (Pa)	1846
		U (Pa)	3561
1600	1200	L/180 S (Pa)	1974
		L/250 S (Pa)	1539
		U (Pa)	2960
1700	700	L/180 S (Pa)	3000
		L/250 S (Pa)	2227
		U (Pa)	4500
1700	900	L/180 S (Pa)	2324
		L/250 S (Pa)	1691
		U (Pa)	3486
1700	1000	L/180 S (Pa)	2078
		L/250 S (Pa)	1513
		U (Pa)	3117
1700	1200	L/180 S (Pa)	1724
		L/250 S (Pa)	1259
		U (Pa)	2586
1800	700	L/180 S (Pa)	2574
		L/250 S (Pa)	1853
		U (Pa)	4069
1800	900	L/180 S (Pa)	1951
		L/250 S (Pa)	1405
		U (Pa)	3080
1800	1000	L/180 S (Pa)	1745
		L/250 S (Pa)	1257
		U (Pa)	2752
1800	1200	L/180 S (Pa)	1449
		L/250 S (Pa)	1043
		U (Pa)	2280
2100	700	L/180 S (Pa)	1574
		L/250 S (Pa)	1133
		U (Pa)	2930
2100	900	L/180 S (Pa)	1190
		L/250 S (Pa)	857
		U (Pa)	2212
2100	1000	L/180 S (Pa)	1063
		L/250 S (Pa)	765
		U (Pa)	1974
2100	1200	L/180 S (Pa)	879
		L/250 S (Pa)	633
		U (Pa)	1630

Wind Ratings (Pa) sashes.

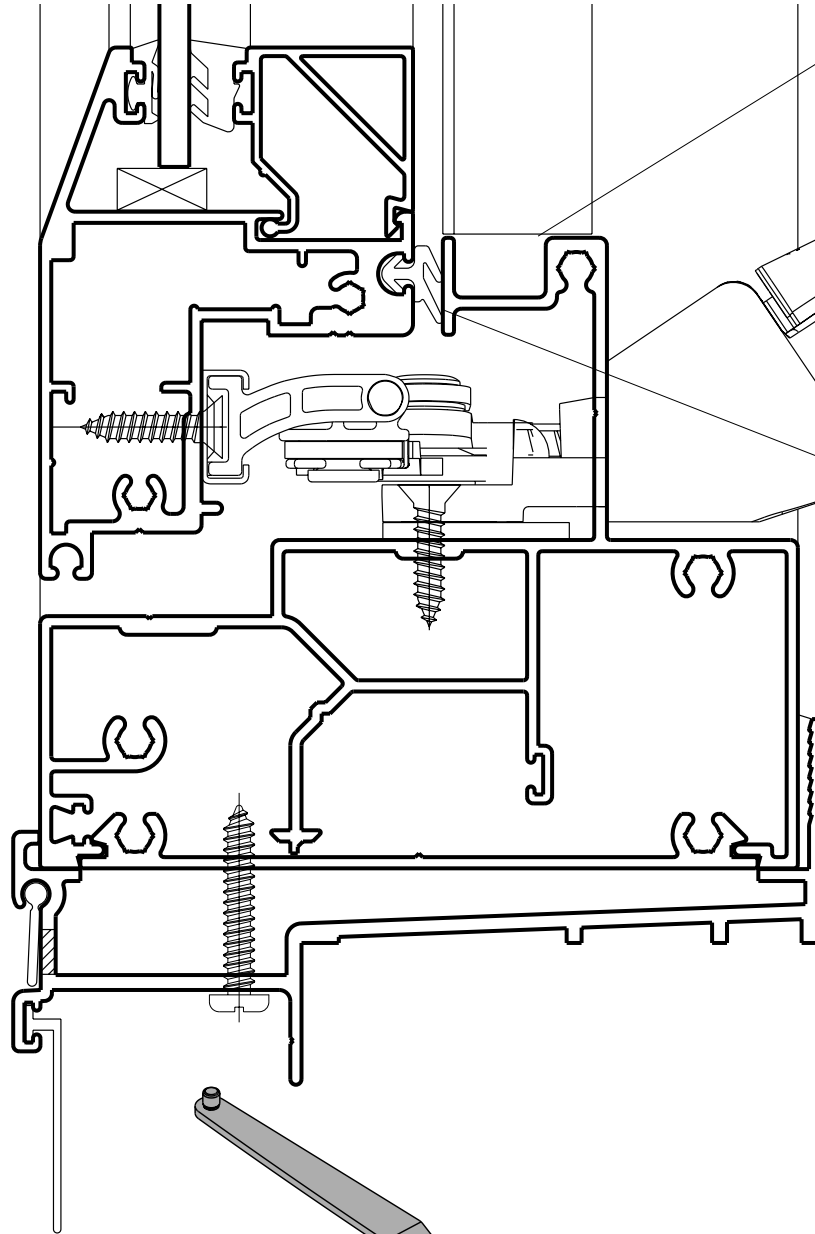
Series 467

# ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## AWNING SILL



### Truth™ scissor winder.

Custom extruded flyscreen can be fitted neatly into sill recess.

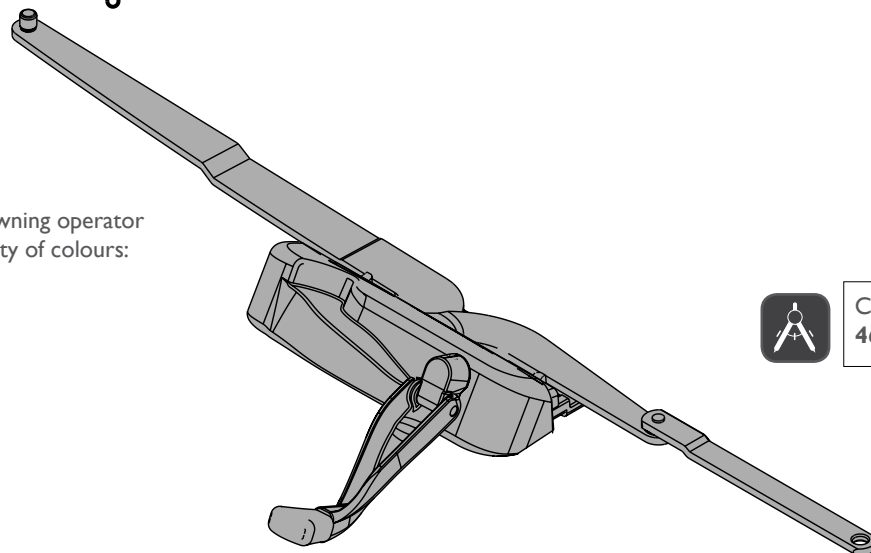
Project out sashes are only as good as the corner joinery. Elevate™ sashes are supported with heavy duty glass-filled nylon spigots, aluminium gussets and two #8 Stainless steel screws.

Santoprene sash seal.

We always recommend sub-sills under commercial windows. Elevate™ nailing fin sub-sill illustrated.

Truth™ Encore awning operator available in a variety of colours:

- Aluminium
- Black
- Off White



CAD file: DWG  
 467.AWN.I



Series 467

# ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## AWNING JAMB OPTIONS

Built-in nailing fin on head, jambs and sub-sill make this window significantly more water proof and easier to install into brick veneer and cavity brick walls.

This detail shows the timber reveal double fixed to frame. This pulls the reveal up tight onto the frame.

Alternative 102 x 44mm jamb.

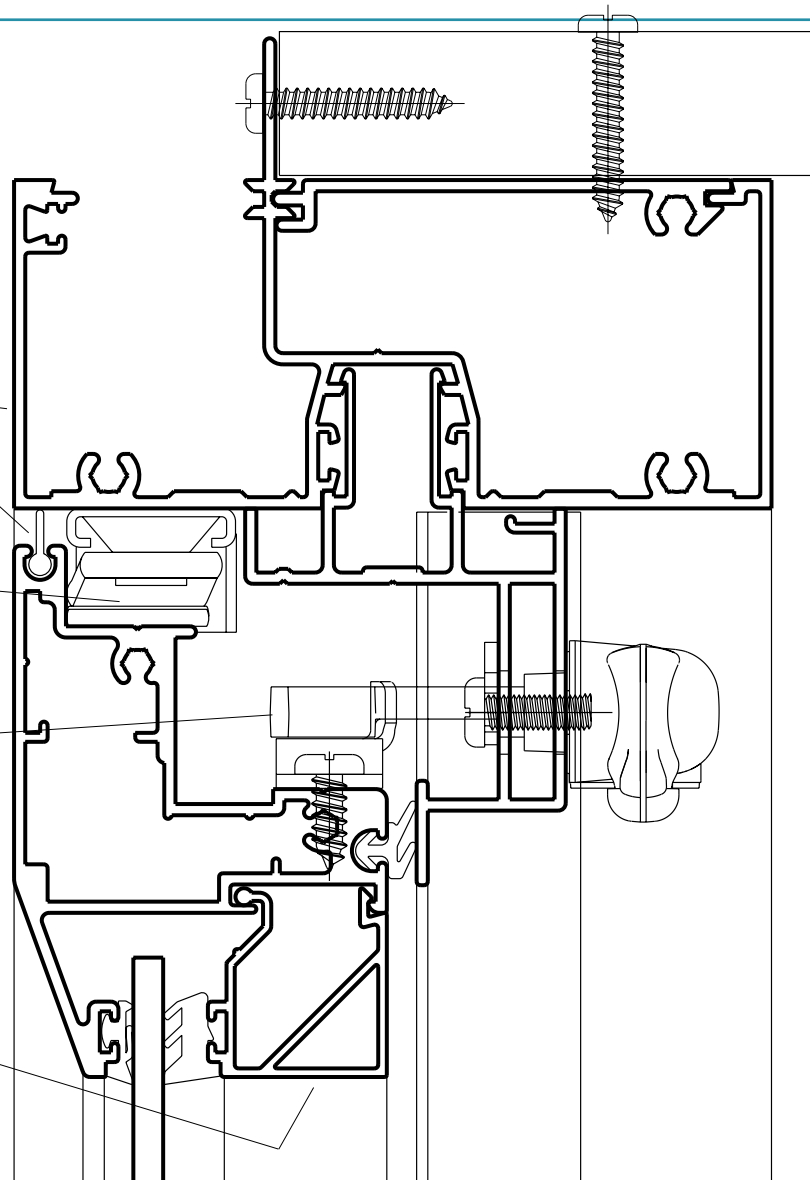
Santoprene external fin seal on jambs and head.

Truth™ stays.

Truth™ side latches secure the sashes in the closed position. This is the way we can achieve very strong sashes that will withstand high negative wind loads.

On tall casement sashes we can fit multi-point latches.

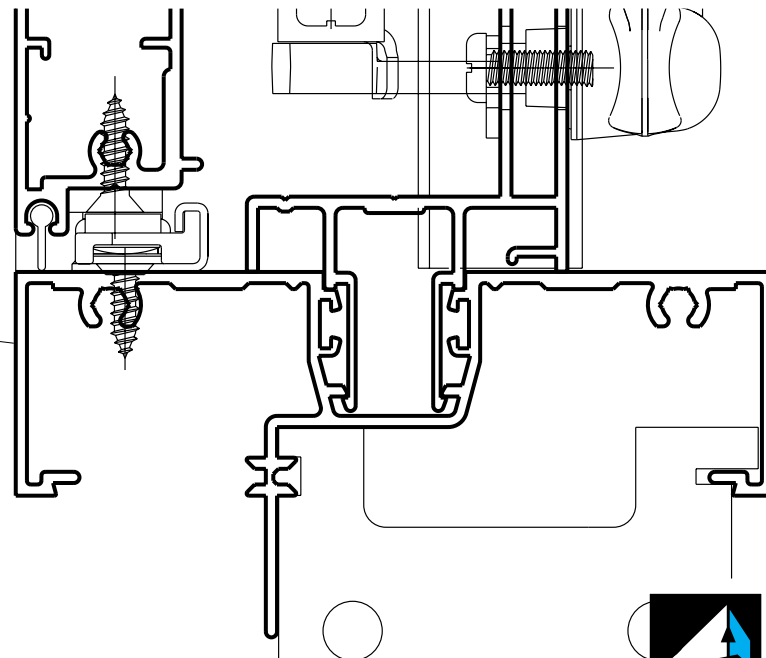
There is a large range of glazing beads that will accept glass thickness from 4mm to 24mm.



CAD file: DWG  
467.AWN.I

Standard 102 x 30mm jamb with built-in nailing fin.

The nailing fin frames will accept height adjustable galvanised building-in lugs. These lugs make installation into cavity brick walls clean and secure.



# Series 467

## ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

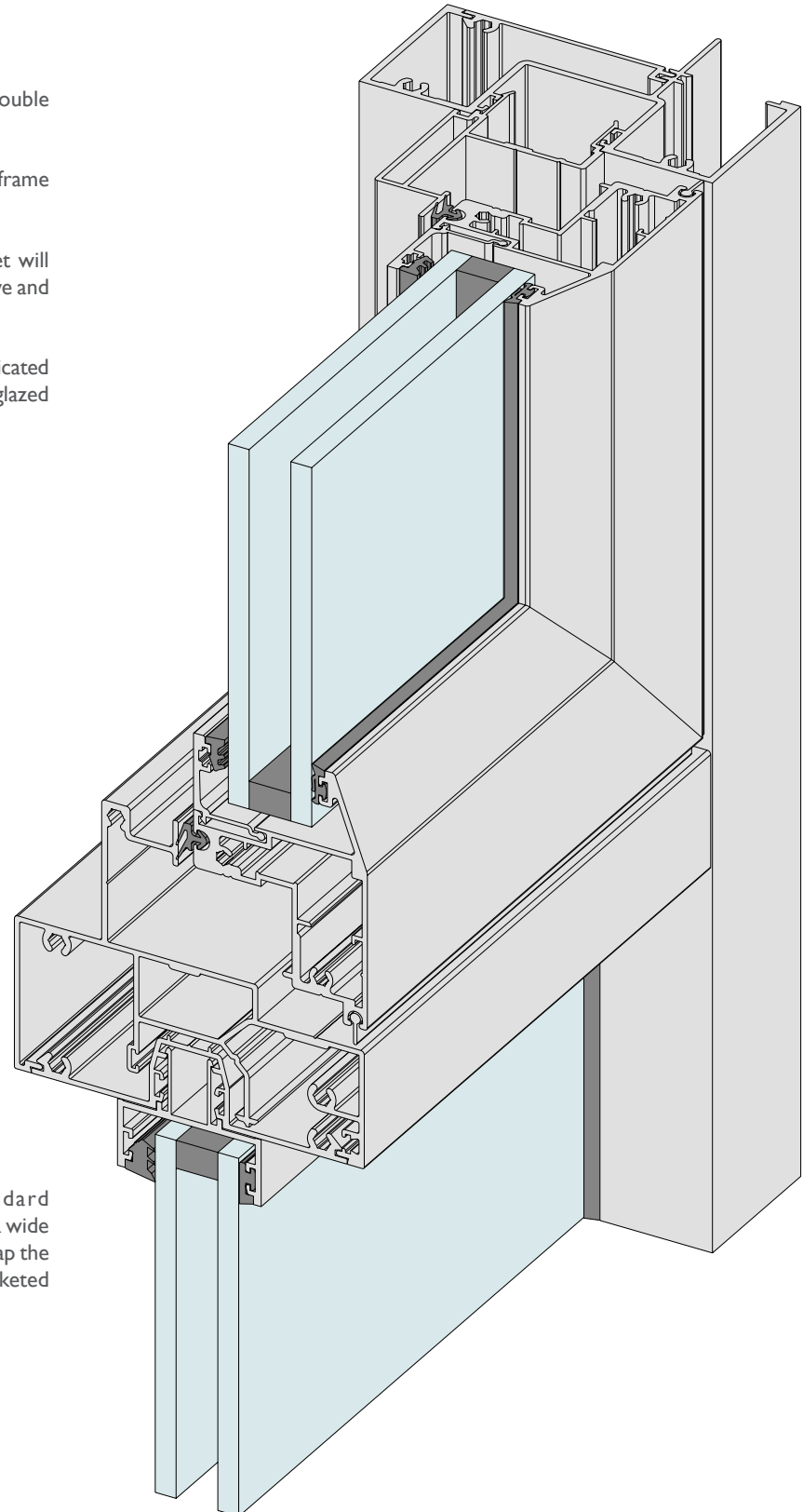
### DOUBLE GLAZED BEADED SASH WITH 24mm IGU AND 24mm IGU IN THE DOUBLE GLAZED FIXED LOWLIGHT

This detail is created with run through double glazed jamb.

The jamb runs through to ensure overall frame strength and weather resistance.

In the lowlight area the wide glazing pocket will accept 24mm IGU's with conventional captive and roll-in glazing wedges.

In awning or casement sash area we use a dedicated jamb adaptor, to snap/screw into the double glazed frame pocket.



Series 467 transoms accept the standard CentreGLAZE™ pocketed filler. To achieve a wide double glazed pocket in the fixed area we snap the double glazed channel adaptor to the pocketed filler as detailed right.

450Pa water resistance.

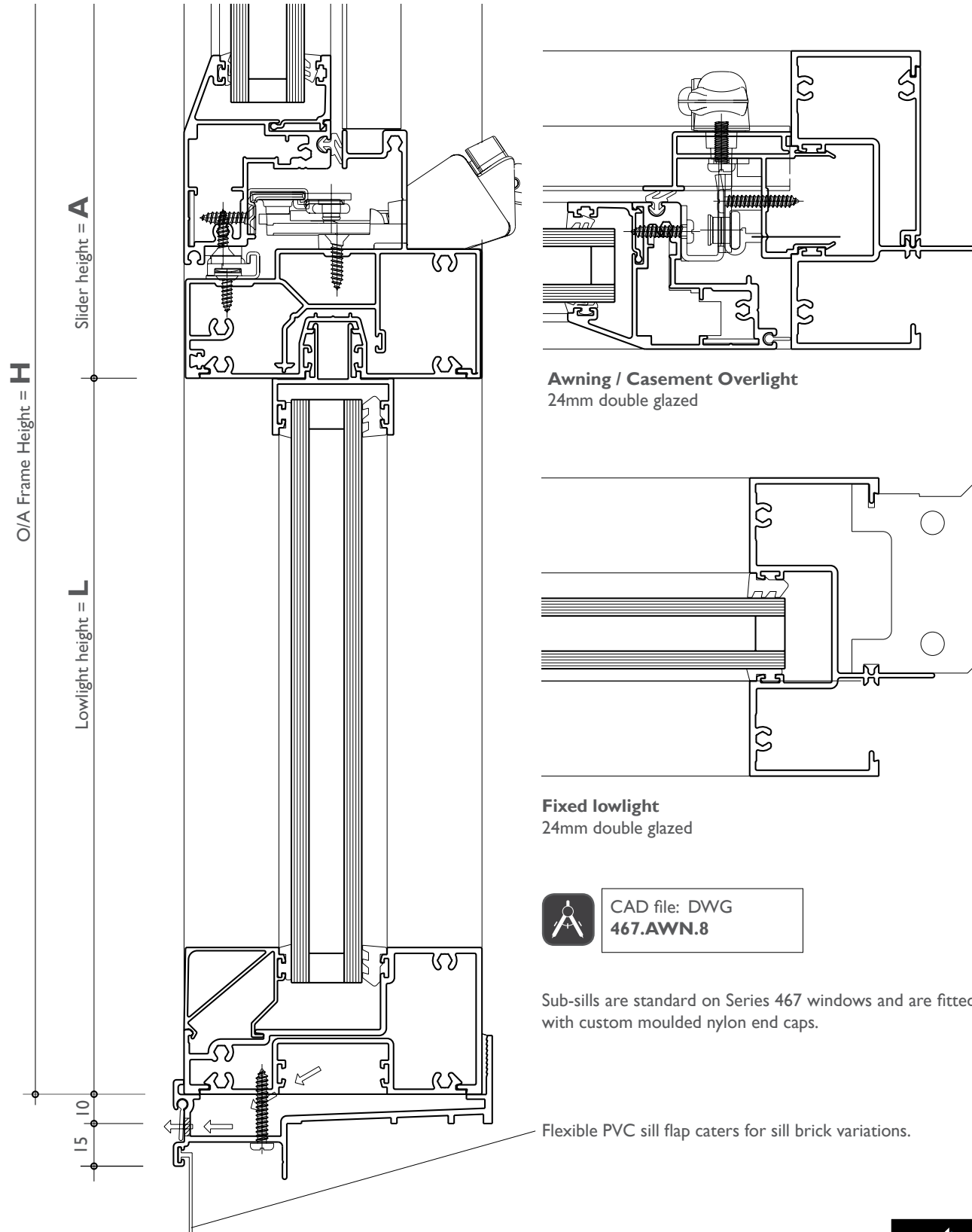
Series 467

# ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## DOUBLE GLAZED BEADED SASH WITH 24mm IGU AND 24mm IGU IN THE DOUBLE GLAZED FIXED LOWLIGHT



© Architectural Window Systems Pty Ltd 1996-2013

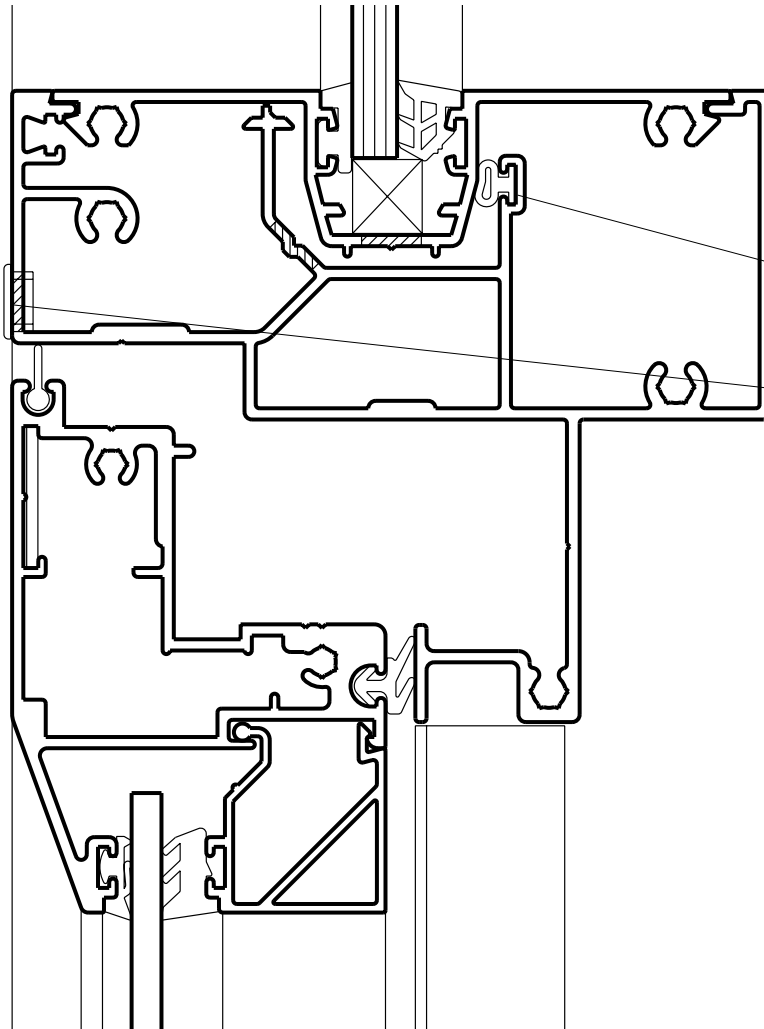
Series 467

# ARCHITECTURAL AWNING WINDOW

with Truth™ Hardware

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

## TRANSOM



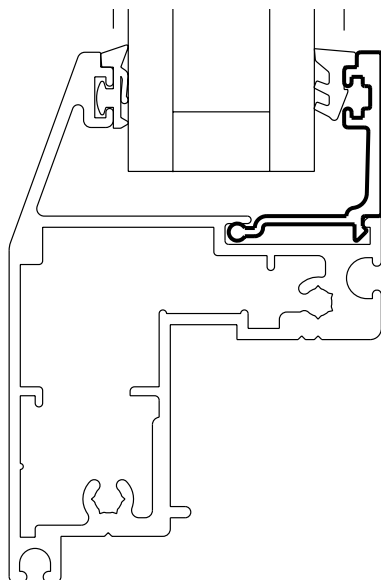
102 x 44mm Transom.

Transom has built-in weatherbar to ensure that this assembly guides moisture to the outside.

Drainage holes.



CAD file: DWG  
 467.AWN.2



We have dedicated glazing beads to cover glass thickness from 4mm to 24mm.

