



Series 624
CentreGLAZE™ Framing
Double Glazed 150mm



Gunghlahin College. Architect: Munns Sly Moore Architects, and Williams Boag Architect. Windows by Taylors Window Supply.
Photo: Geoff Comfort

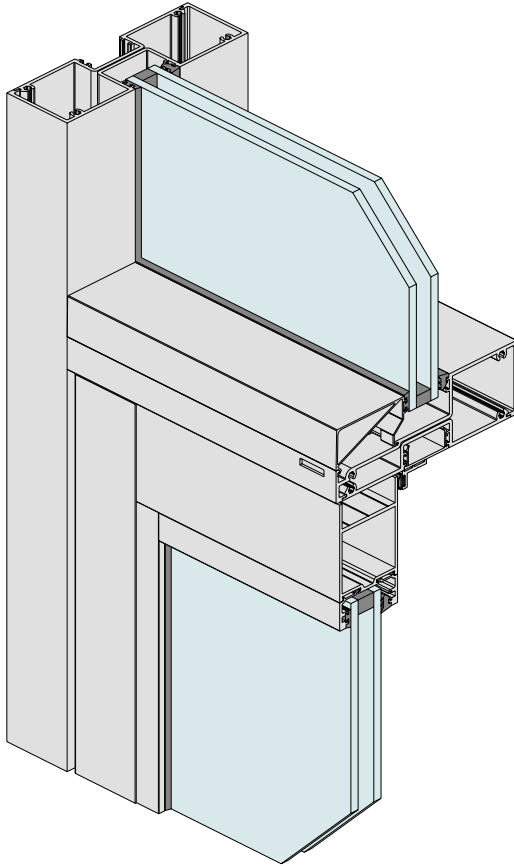


Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
 REPLACES: MARCH 08
 SCALE: NOT TO SCALE

KEY FEATURES/PERFORMANCE CHARACTERISTICS



- Frame and glazing pocket designed to accept 24mm insulating glass units (IGUs) with required 12mm bite plus another 4mm to cater for glass production and installation tolerances.
- Compatible with a large range of other Elevate™ commercial framing systems, including sliding doors.
- Snap together and interlocking expansion mullions.
- Matching 50mm thick hinged, pivot or sliding door designed to accept 24mm thick double glazing and a large variety of industry standard hardware.
- Two fully beaded midrail sizes to choose from (125mm and 200mm deep).
- Concealed overhead transom also designed to accept 24mm IGUs.
- We can insert awning sashes into the framing – if required. These sashes will also accept 24mm IGUs.

Series 624 CentreGLAZE™ Framing
 Double Glaze 150mm. External view.

Maximum Glass Thickness	≤24mm
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* Subject to individual site conditions and wind loads. Contact AWS Technical Support for more information, email techsupport@awsaustralia.com.au

**2D & 3D CAD FILES AVAILABLE**

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

**MORE INFORMATION**

For the latest updates regarding this product visit our website
www.elevatealuminium.com.au/624

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SOUND REDUCTION

A number of glass combinations have been tested with this system to achieve sound reduction numbers listed below.

Glass Description	Rating
6mmTgh / 12mm air / 6.50mmVLam Hush glass	Rw36
8.5mmVLam Hush / 10mm air / 6.50mmVLam Hush	Rw39

The actual tests were carried out on a product very similar to this frame (Series 424).



WERS RATINGS

Double Glazed

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-057-01	638ClrLam/12/6Clr	3.9	0.62	0.69	0.37
AWS-057-02	638ClrLam/12Ar/6Clr	3.9	0.62	0.69	0.37
AWS-057-03	638CPGy/12/6Clr	3.2	0.37	0.3	0.37
AWS-057-04	638CPGy/12Ar/6Clr	3	0.37	0.3	0.37
AWS-057-05	638CPClr/12/6Clr	3.2	0.53	0.64	0.37
AWS-057-06	638CPClr/12Ar/6Clr	3	0.53	0.64	0.37
AWS-057-07	638TS30/12/6Clr	3.9	0.27	0.26	0.37
AWS-057-08	638TS30/12Ar/6Clr	3.8	0.27	0.26	0.37
AWS-057-09	1038SnClr/8/6Clr	3.6	0.42	0.51	0.37
AWS-057-10	1038SnClr/8Ar/6Clr	3.4	0.42	0.51	0.37
AWS-057-11	6.38SnClr/12/6Clr	3.4	0.44	0.53	0.37
AWS-057-12	1038ClrLam/8/6Clr	4	0.46	0.52	0.37
AWS-057-13	1038ClrLam/8Ar/6Clr	3.9	0.46	0.52	0.37
AWS-057-14	6EVGy/12/6Clr	3.3	0.3	0.25	0.37
AWS-057-15	6SnGy/12Ar/6Clr	3.2	0.31	0.25	0.37
AWS-057-16	6SnGy/12/6Clr	3.4	0.44	0.53	0.37
AWS-057-17	6EVGy/12Ar/6Clr	3.1	0.3	0.25	0.37
AWS-057-18	6EVClr/12/6Clr	3.9	0.49	0.52	0.37
AWS-057-19	6EVClr/12Ar/6Clr	3.8	0.49	0.52	0.37

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.m² 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 www.wers.net

HOW TO SPECIFY

SYSTEM NAME

Elevate™ Aluminium Systems Series 624 Double Glazed CentreGLAZE™ Framing

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 and our qualified technical advisors will assist you with product selection and specification for your project.

Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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WERS RATINGS

Double Glazed Cont.

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-057-20	4SG/16Ar/4Clr	3.8	0.41	0.57	0.37
AWS-057-21	6.38GyLam/12Ar/6Clr	3.8	0.21	0.1	0.37
AWS-057-22	6.38GyLam/12/6Clr	3.9	0.22	0.1	0.37
AWS-057-23	6.38SnClr/12Ar/6Clr	3.2	0.44	0.53	0.37
AWS-057-24	6SnClr/12/6Clr	3.4	0.45	0.53	0.37
AWS-057-25	6SnClr/12Ar/6Clr	3.2	0.44	0.53	0.37
AWS-057-26	10SnClr/8/6Clr	3.7	0.44	0.52	0.37
AWS-057-27	10SnClr/8Ar/6Clr	3.4	0.44	0.52	0.37
AWS-057-28	638CPGy/8/4Clr	3.5	0.38	0.31	0.37
AWS-057-29	638CPGy/8Ar/4Clr	3.3	0.38	0.31	0.37
AWS-057-30	638CPClr/8/4Clr	3.5	0.54	0.65	0.37
AWS-057-31	638CPClr/8Ar/4Clr	3.2	0.54	0.65	0.37
AWS-057-32	3SG/12/3Clr	4	0.46	0.6	0.37
AWS-057-33	3Clr/12Ar/3ET	3.1	0.63	0.65	0.37
AWS-057-34	4SnClr/10/4Clr	3.6	0.47	0.54	0.37
AWS-057-35	4SnClr/10Ar/4Clr	3.3	0.47	0.54	0.37
AWS-057-36	4Clr/10/4Clr	4	0.67	0.7	0.37
AWS-057-37	4Clr/10Ar/4ET	3.1	0.62	0.65	0.37
AWS-057-38	5Clr/8/5Clr	4.1	0.63	0.69	0.37
AWS-057-39	5Clr/8Ar/5Clr	3.9	0.64	0.69	0.37
AWS-057-40	4Az/10/4ET	3.4	0.36	0.54	0.37
AWS-057-41	5SG/8Ar/5ET	3.3	0.35	0.51	0.37

NOTES

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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

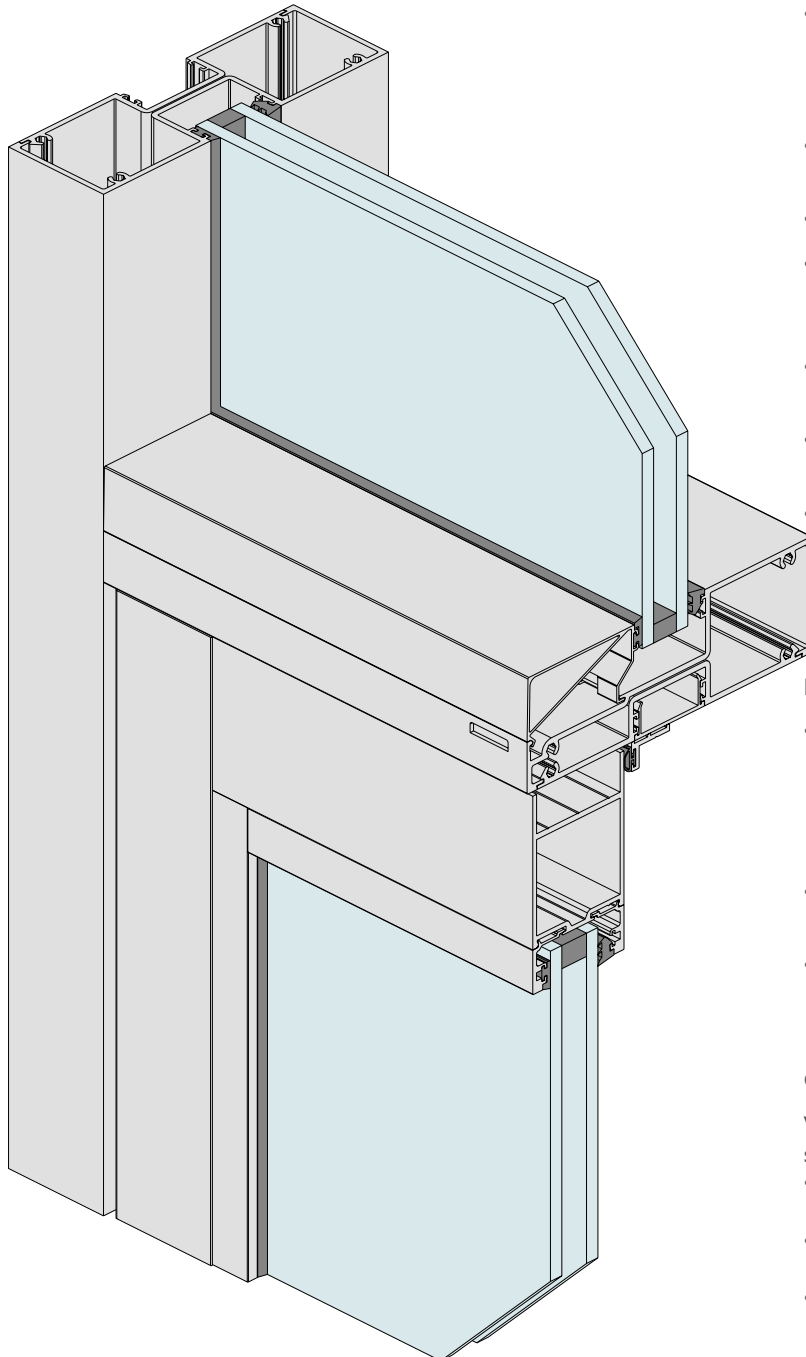
For the latest WERS data for this system visit www.wers.net

Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
REPLACES: MARCH 08
SCALE: NOT TO SCALE

DESIGN FEATURES



- Frame and glazing pocket designed to accept 24mm insulating glass units (IGUs) with required 12mm bite plus another 4mm to cater for glass production and installation tolerances.
- Compatible with a large range of other Elevate™ framing systems, including sliding doors.
- Snap together and interlocking expansion mullions.
- Matching 50mm thick hinged, pivot or sliding door designed to accept 24mm thick double glazing and a large variety of industry standard hardware.
- Two fully beaded midrail sizes to choose from (125mm and 200mm deep).
- Concealed overhead transom also designed to accept 24mm IGUs.
- We can insert awning sashes into the framing - if required. These sashes will also accept 24mm IGUs.

Limitations:

- There is a sub-head, sub-jamb and sub-sill treatment to choose from to improve the weather performance. But please note dry glazed shopfront framing is not recommended for extreme exposed locations.
- Allow for mullion expansion on units that are subject to thermal movement.
- Door glazed with 24mm IGUs will be heavy and this may limit the overall panel size.

Compatibility:

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

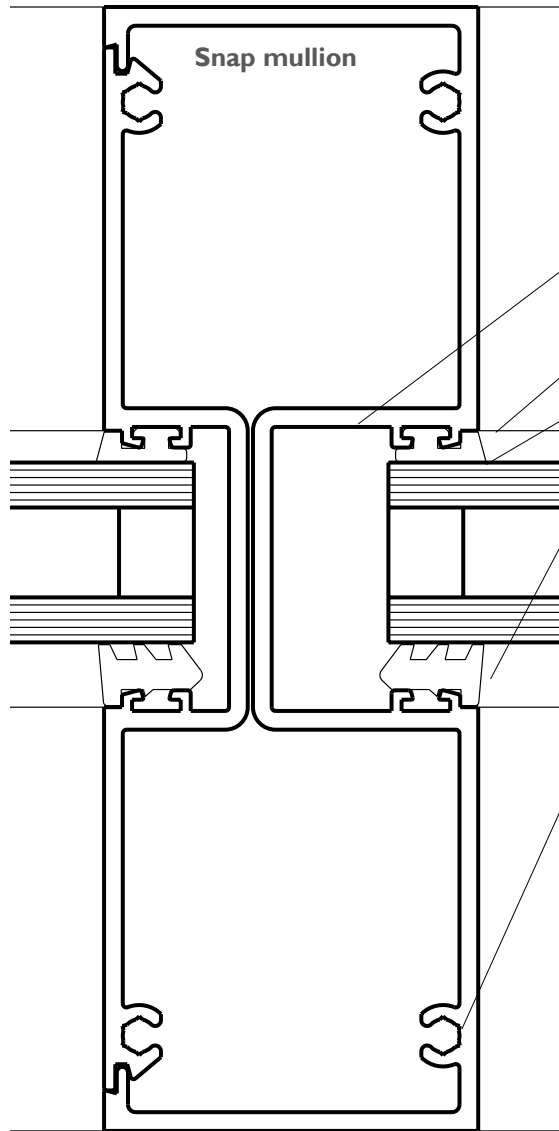
- Series 424 FrontGLAZE™ double glazed framing (102mm wide).
- Series 702 SlideMASTER™ high performance sliding door (150mm wide).
- Series 704 SlideMASTER™ architectural sliding door (150mm wide).

Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
 REPLACES: MARCH 08
 SCALE: FULL SIZE

FRAME DESIGN FEATURES



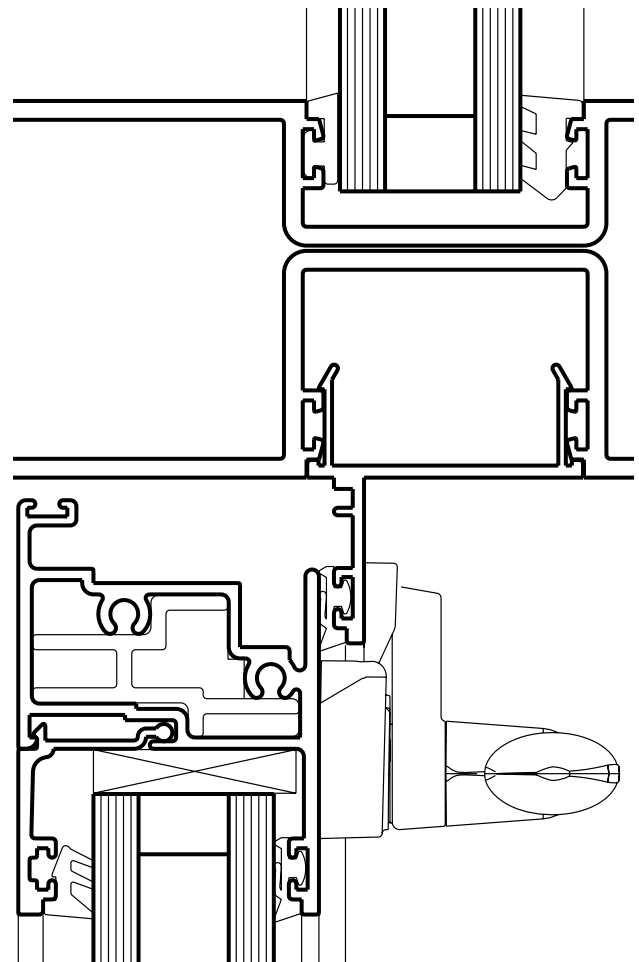
Series 624 - 150 x 50mm frame

The glazing pocket has been designed to be compatible with industry standard, but more importantly:

- Pocket has been designed to give us the required 12mm glass bite on Insulating Glass Units (IGUs).
- Glazing wedges are fully recessed into the frame.
- Accepts true captive wedge glazing to reduce on-site time/costs. This pocket will also accept roll-in wedges both sides or wet glazing.
- Pocketed filler also has screw splines. Two additional screw fixings halve the chances of a joint opening up.



CAD file: DWG
 624.FXD.1



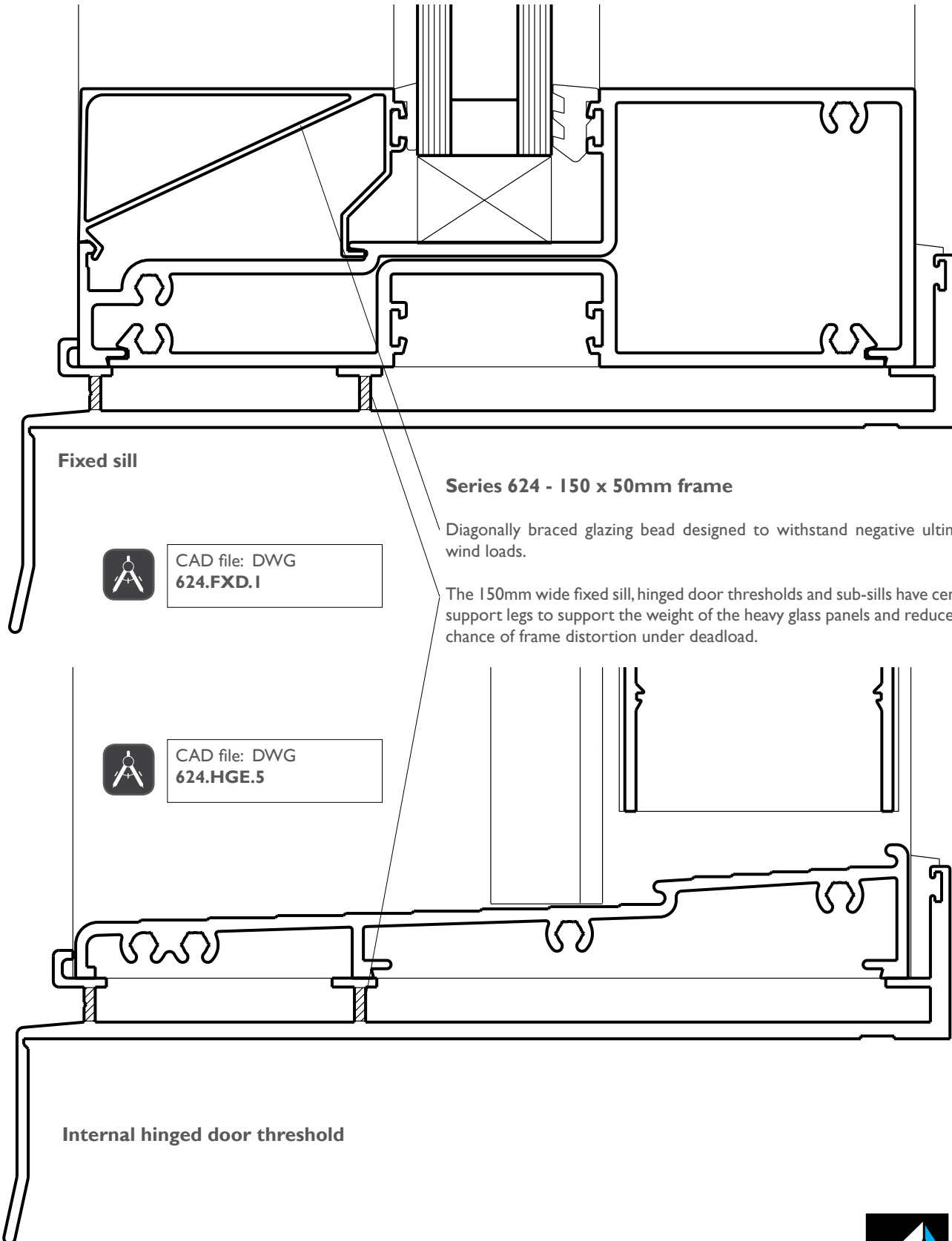
The main feature with all Elevate™ commercial framing systems is the true captive jaws on both sides of the glazing pocket. This allows you to fit captive glazing wedge on the inside or outside if required.

We can insert double glazed awning/casement sashes into Series 624 framing with custom snap fit adaptors, as shown.

Series 624 CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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FRAME DESIGN FEATURES

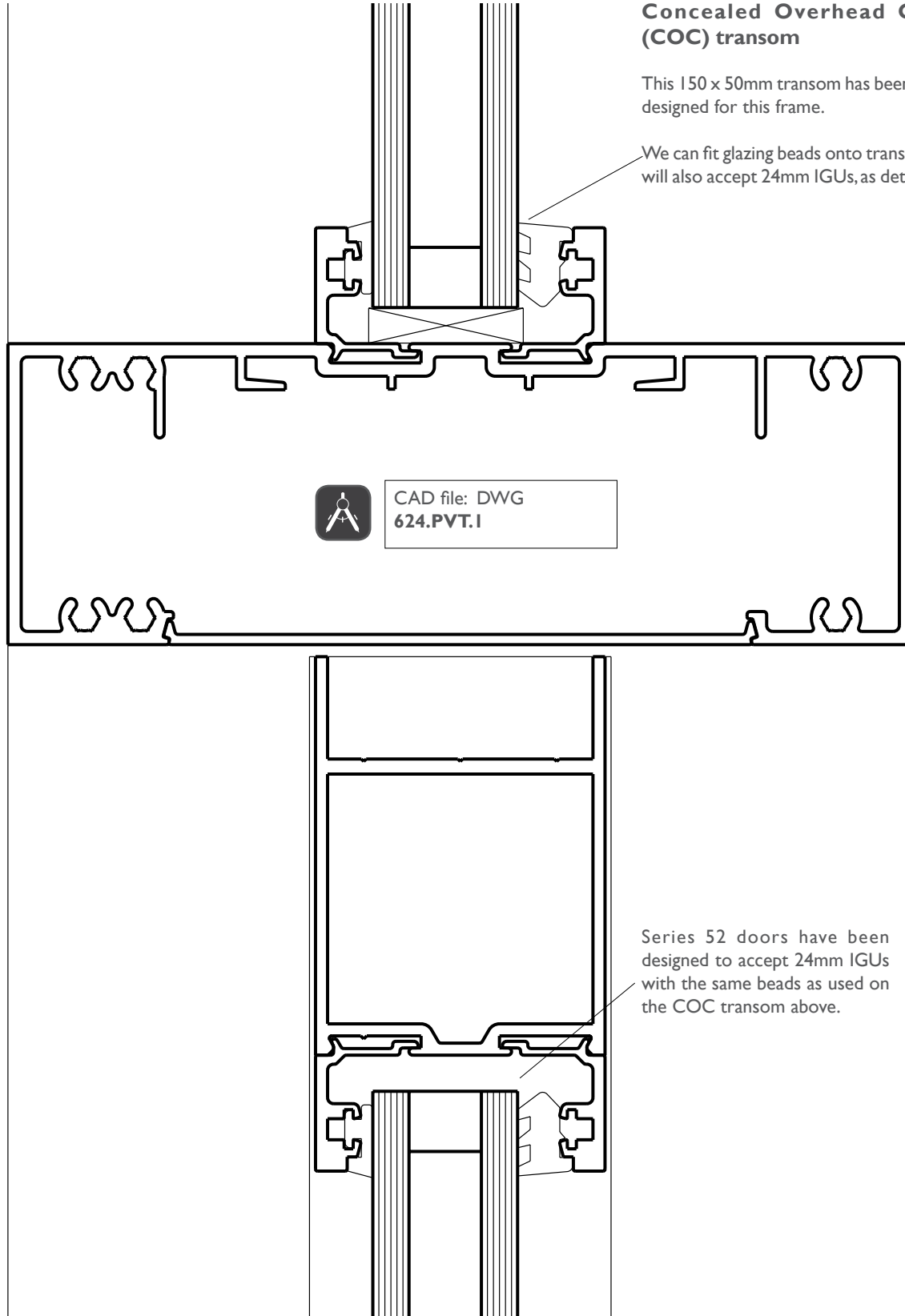


Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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 SCALE: FULL SIZE

FRAME DESIGN FEATURES



Concealed Overhead Closer (COC) transom

This 150 x 50mm transom has been custom designed for this frame.

We can fit glazing beads onto transoms that will also accept 24mm IGUs, as detailed left.



CAD file: DWG
 624.PVT.1

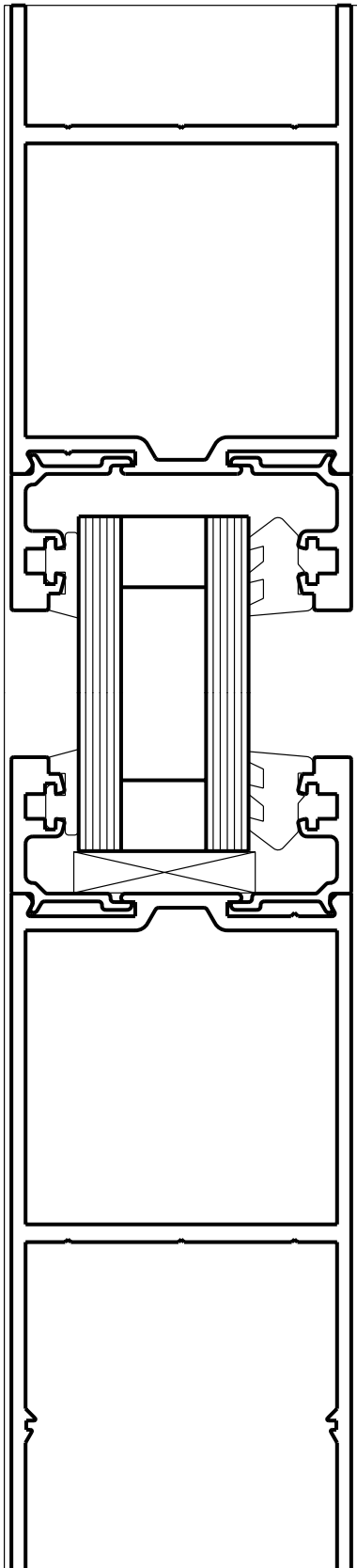
Series 52 doors have been designed to accept 24mm IGUs with the same beads as used on the COC transom above.

Series 624

CentreGLAZE™ Double Glaze Framing

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SCALE: FULL SIZE & NTS

DOOR DESIGN FEATURES - SERIES 52

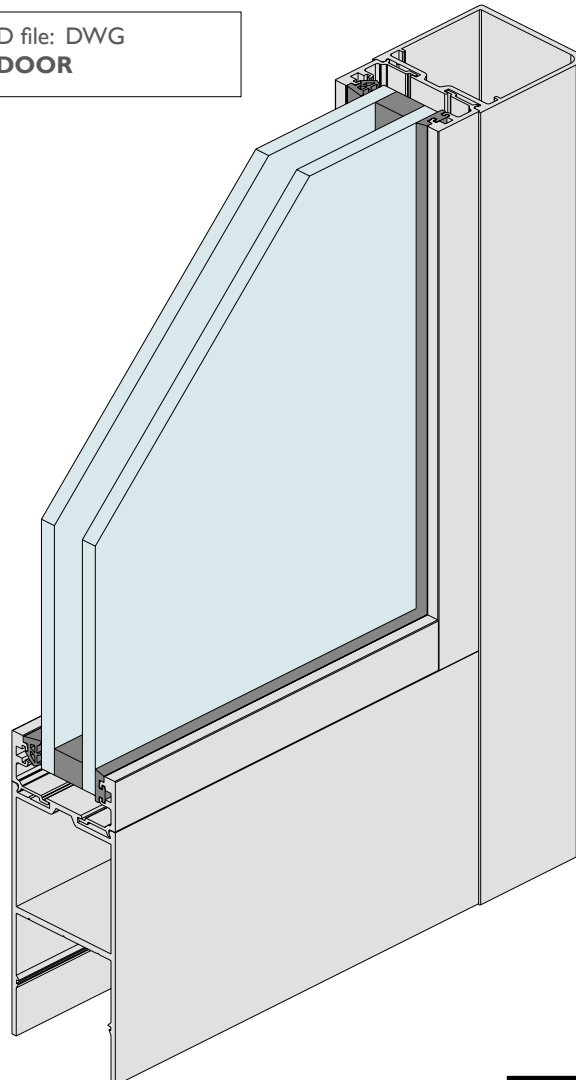


Matching door

- Fully beaded 50mm thick heavy duty door stiles and rails (Series 52) designed to accept 24mm IGUs.
- The 50mm thick doors are significantly stronger than industry standard light duty 45mm thick. This allows us to make the doors higher and still comply.
- Doors will accept a large variety of industry standard hardware.
- Door panels can be fitted with midrails (125mm or 200mm) that will accept 24mm IGUs.
- Available as hinged, pivot or sliding panels.
- Top and bottom rails are joined to stiles with heavy duty spigot secured to thick backing plate with high tensile bolts.



CAD file: DWG
52.DOOR

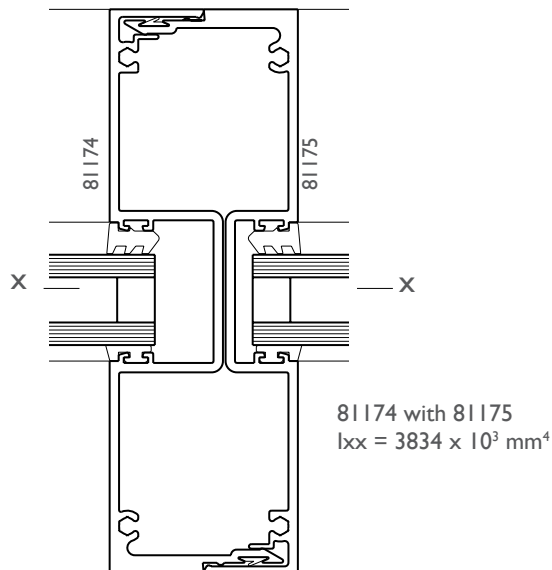
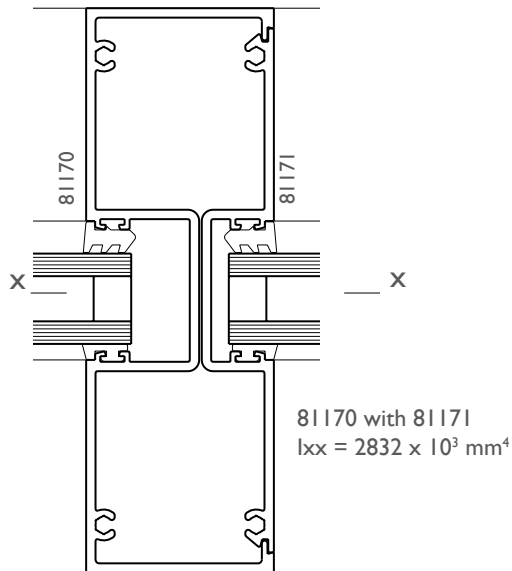
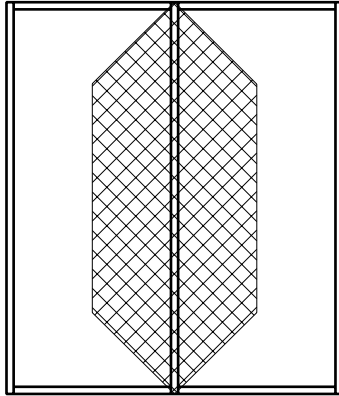


Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
 REPLACES: MARCH 08
 SCALE: HALF FULL SIZE

MULLION STRENGTH



S = Serviceability limit state (deflection = L/250).
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 AS 2047.
 Serviceability rating has been limited to 3333 Pa and
 Ultimate strength rating has been limited to 5000 Pa.

Height mm	Mullion centres mm							
	800	1000	1200	1400	1600	1800	2000	
2400	S	3333	3333	2872	2545	2318	2160	2055
	U	5000	5000	4307	3817	3476	3240	3083
2600	S	3333	2831	2414	2128	1925	1780	1676
	U	5000	4247	3621	3192	2888	2669	2515
2800	S	2982	2424	2060	1808	1628	1495	1398
	U	4473	3636	3090	2712	2441	2243	2097
3000	S	2588	2099	1780	1557	1396	1276	1187
	U	3882	3149	2669	2336	2094	1914	1780
3200	S	2131	1729	1467	1284	1151	1053	978
	U	3402	2755	2330	2033	1817	1655	1532
3400	S	1772	1435	1215	1061	948	864	800
	U	3007	2431	2053	1787	1593	1447	1334
3600	S	1489	1204	1018	887	791	719	-
	U	2676	2161	1822	1584	1409	1276	-

Wind Ratings (Pa) mullion 81170 and filler 81171.

Height mm	Mullion centres mm							
	800	1000	1200	1400	1600	1800	2000	
2400	S	3333	3333	3333	3021	2751	2564	2440
	U	5000	5000	5000	4532	4127	3846	3659
2600	S	3333	3333	2866	2526	2285	2113	1990
	U	5000	5000	4299	3790	3428	3169	2985
2800	S	3333	2877	2446	2147	1932	1775	1660
	U	5000	4316	3668	3220	2898	2663	2490
3000	S	3073	2492	2113	1848	1657	1515	1409
	U	4609	3738	3169	2773	2486	2273	2113
3200	S	2526	2050	1738	1522	1365	1248	1159
	U	4039	3270	2766	2414	2157	1965	1819
3400	S	2100	1701	1440	1257	1124	1024	948
	U	3569	2886	2437	2122	1891	1717	1584
3600	S	1765	1428	1206	1051	938	852	786
	U	3177	2566	2163	1880	1673	1515	1393

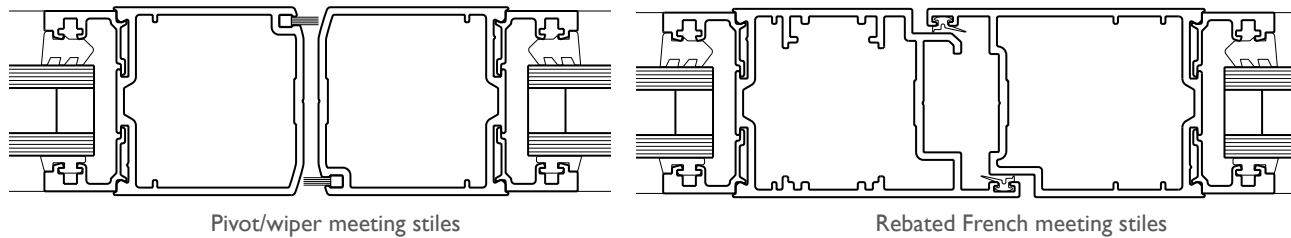
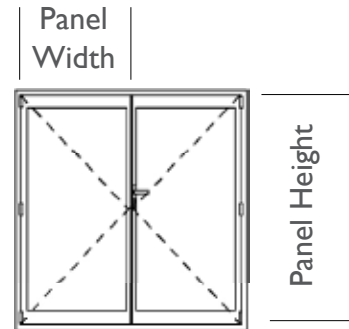
Wind Ratings (Pa) mullion 81174 and filler 81175.

Series 624 CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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SCALE: HALF FULL SIZE

DOOR DESIGN FEATURES

S = Serviceability limit state (deflection = L/250).
U = Ultimate strength limit state (factored yield strength = 104 MPa).
These tables have been calculated using nominal section properties.



Door Meeting Stile Strength Guide		Ratings – Pivot meeting stiles		Ratings – Rebated French meeting stiles	
Panel Height mm	Panel Width mm	Series 52		Series 52	
		S	U	S	U
2100	700	1070	3431	1416	4310
2100	800	950	3038	1256	3816
2100	900	858	2737	1135	3439
2100	1000	786	2502	1040	3143
2400	700	710	2603	939	3270
2400	800	627	2298	830	2887
2400	900	565	2064	747	2593
2400	1000	515	1879	681	2361
2600	700	555	2209	734	2775
2600	800	-	-	648	2446
2600	900	-	-	582	2193
2600	1000	-	-	530	1994
2800	700	-	-	586	2384
2800	800	-	-	516	2100
2800	900	-	-	-	-
2800	1000	-	-	-	-

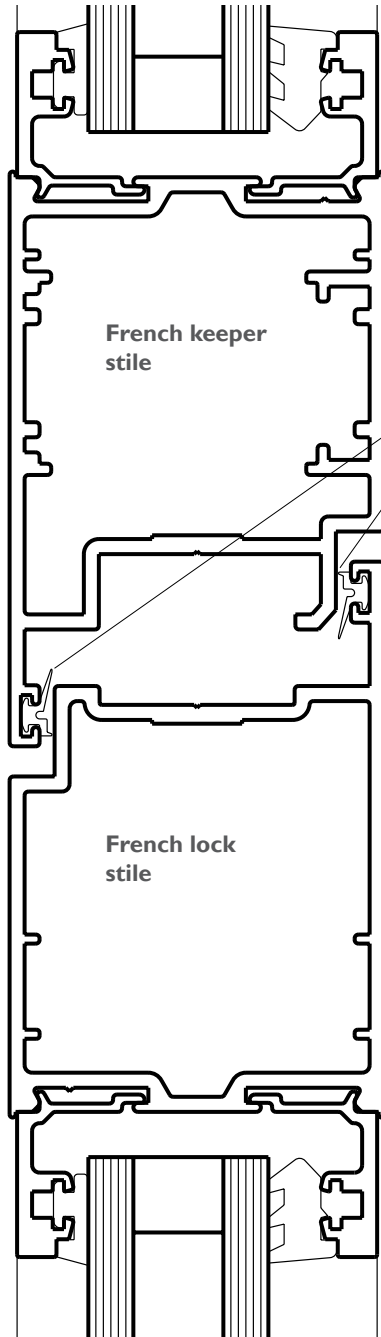
Wind Ratings (Pa) door meeting stiles.

Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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 SCALE: FULL SIZE & NTS

ALTERNATIVE DOOR STILES - FRENCH REBATE



Rebated french meeting stiles

These rebated stiles can be used for internal opening or externally opening doors.

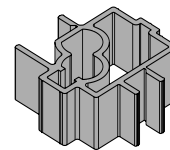
The lock stile has been designed to accept ANDO™, ICON™ and MIRO™ lever lock and the keeper stile has been designed to accept ANDO™ twinbolt hardware as shown below.

Lock stile will also accept Lockwood 3580 and Legge 995MF locks with custom nylon lock keeper. The keeper stile would be fitted with finger operated flush bolts when using these types of locks.

Co-extruded Santoprene stile seals.



CAD file: DWG
 624.HGE.2



Throw bolts on lever lock, twinbolt and flushbolts are secured with custom extruded aluminium bolt guides.

The ANDO™ lever lock shown highlights the multi-point option where besides the central lock, bolts are thrown into head and sill.

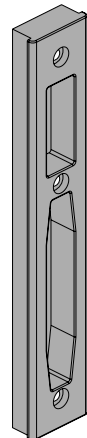
Note:

ANDO™, ICON™ and MIRO™ lever lock sets and twinbolts are designed for residential applications.

For high traffic applications use Lockwood 3580 or Legge 995MF locks and finger operated flush bolts, shown later in these notes.



Custom glass filled nylon keeper nests into the keeper stile.

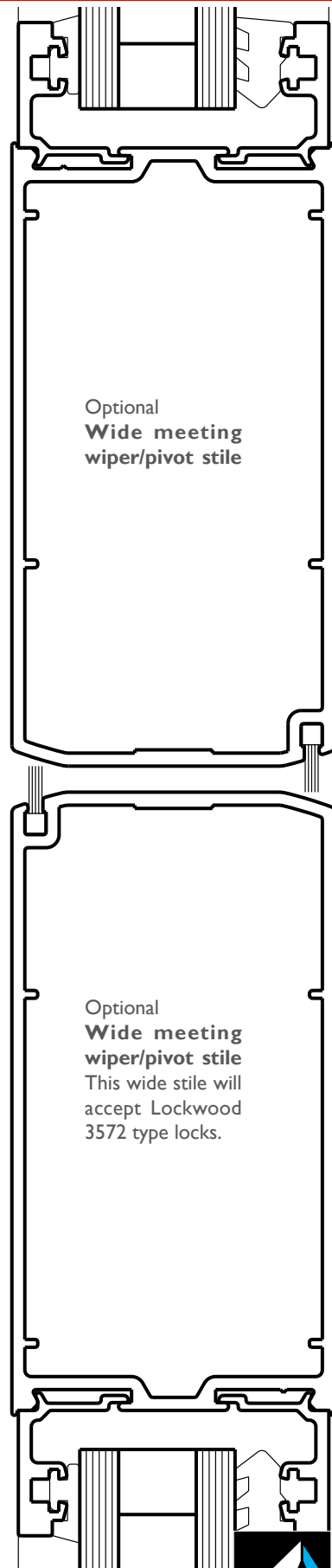
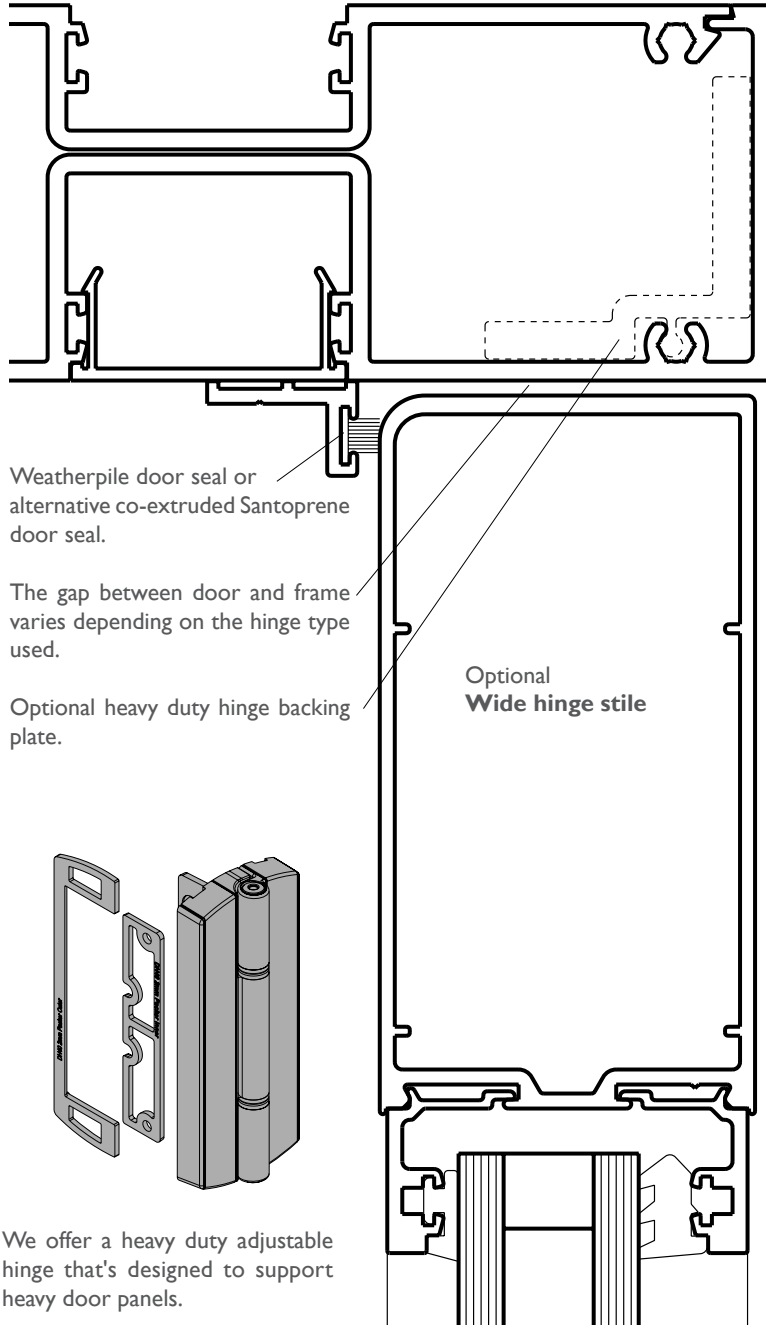


Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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SCALE: FULL SIZE & NTS

ALTERNATIVE DOOR STILES - WIDE

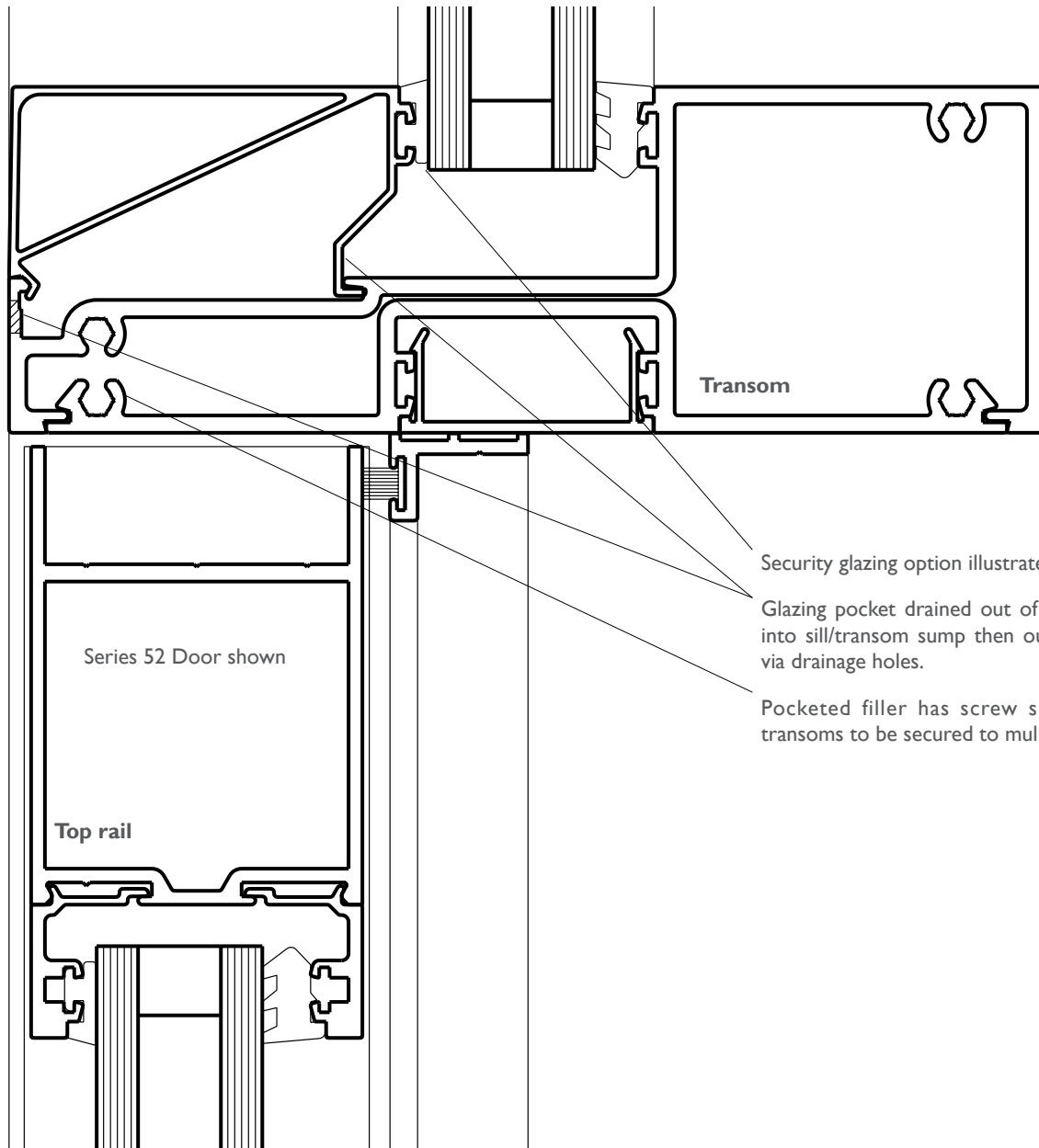


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624.HGE.6

Series 624 CentreGLAZE™ Double Glaze Framing

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SCALE: FULL SIZE

FIXED/HINGED DOOR TRANSOM



Security glazing option illustrated.

Glazing pocket drained out of the glazing area into sill/transom sump then out of the system via drainage holes.

Pocketed filler has screw splines to allow transoms to be secured to mullions/jamb.

Glazing pocket on frame and doors will accept 24mm thick IGUs.

Recessed glazing wedges give a significantly smarter finish to the framing. These recessed wedges are carried through to doors as previously illustrated.

Glazing can be:

- Security glazed as illustrated above, captive wedge external, roll-in wedge internal.
- Roll-in wedges both sides.
- Silicone seal external and roll-in wedge internal.

Drainage holes in sill/transom and beads allow water out of the glazing pocket area.

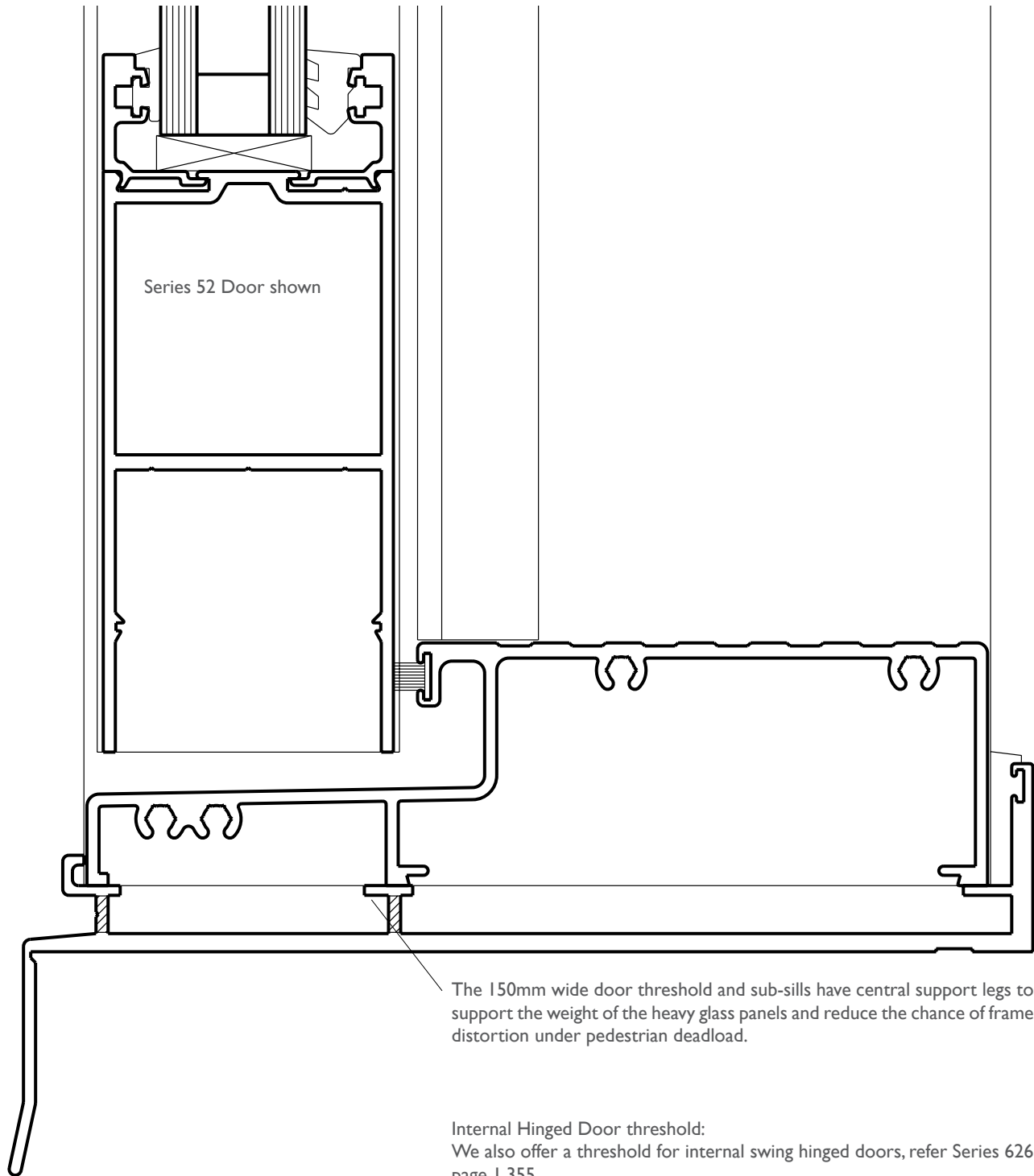


CAD file: DWG
624.HGE.I

Series 624 CentreGLAZE™ Double Glaze Framing

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SCALE: FULL SIZE

EXTERNAL HINGED DOOR THRESHOLD



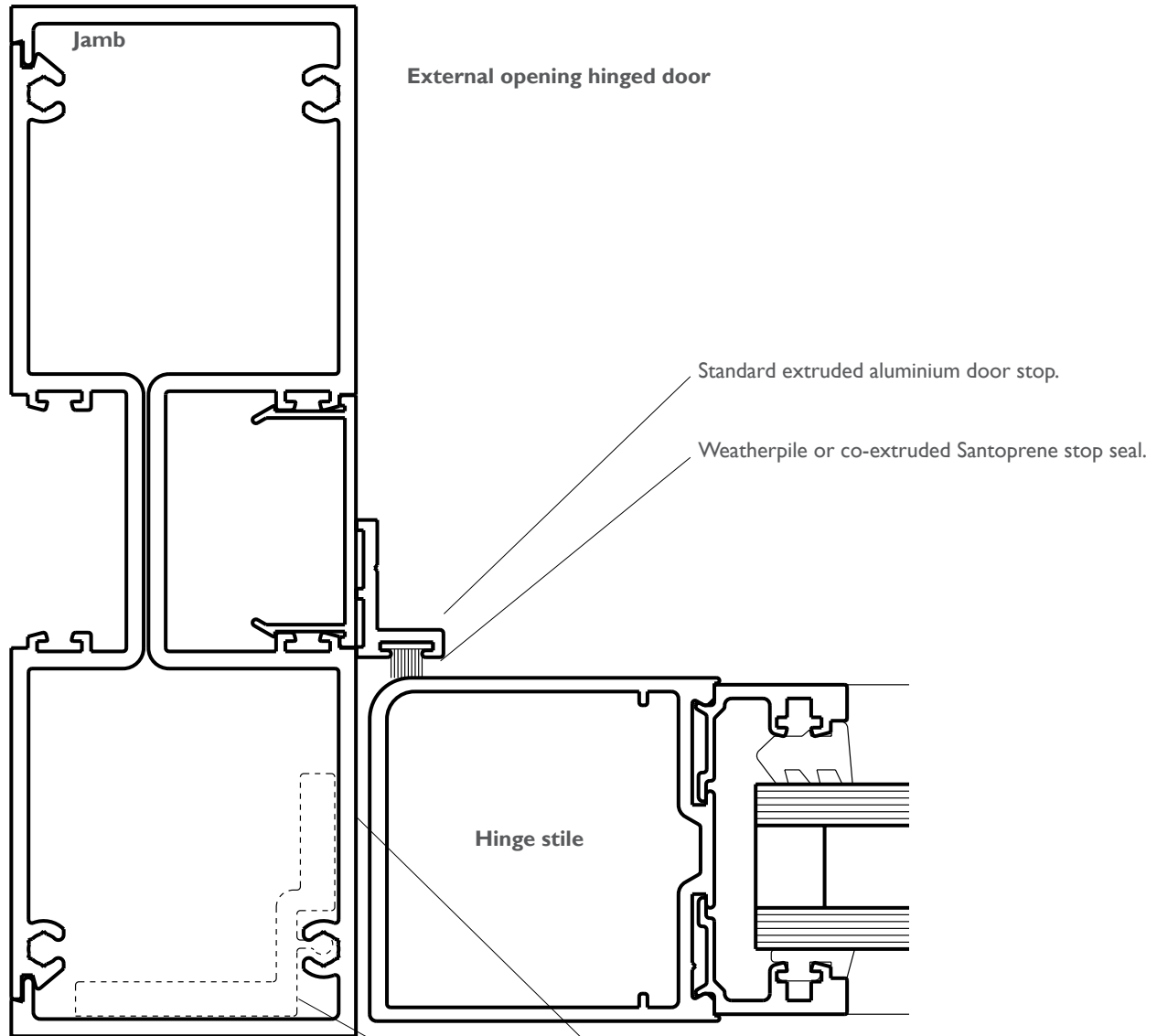
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624.HGE.I

Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
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 SCALE: FULL SIZE

HINGED DOOR JAMBS



The hinges should always be fixed to the main frame member, not the snap-in pocketed filler.

For high traffic areas we offer a concealed hinge backing plate as shown (dotted). If you feel you need this option clearly nominate when specifying.



CAD file: DWG
 624.HGE.2

Series 624 CentreGLAZE™ Double Glaze Framing

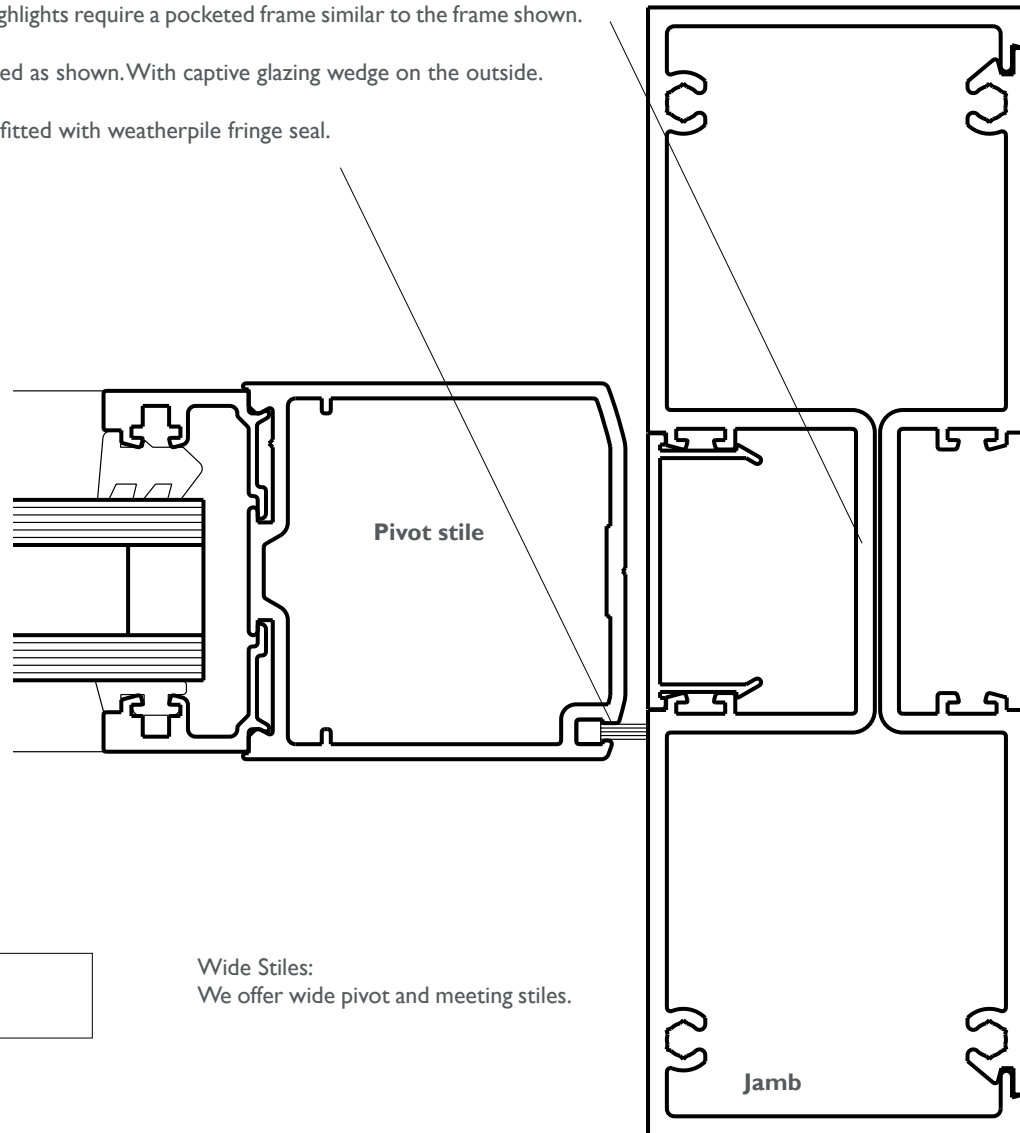
DATE: NOV 12
REPLACES: MARCH 08
SCALE: FULL SIZE

PIVOT DOOR JAMB & MEETING STILES

Centre pivot doors with highlights require a pocketed frame similar to the frame shown.

Doors can be security glazed as shown. With captive glazing wedge on the outside.

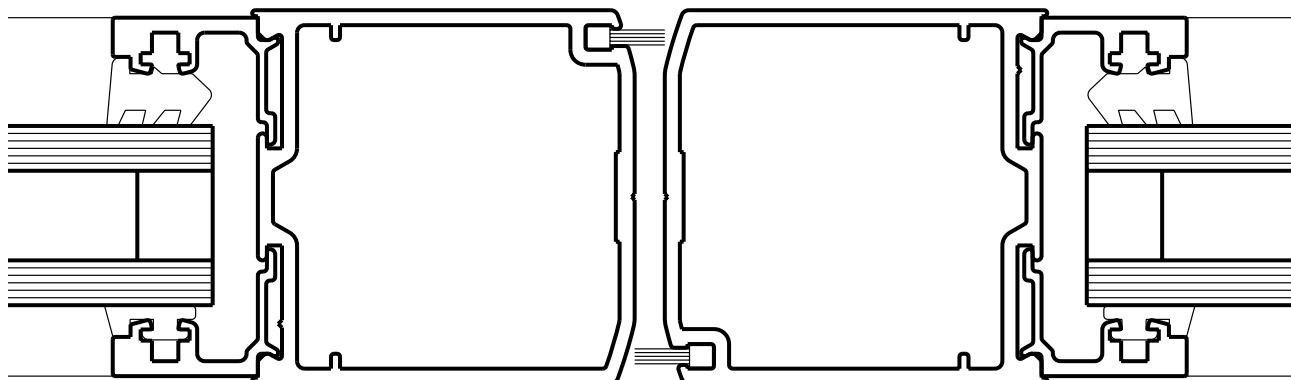
All centre pivot doors are fitted with weatherpile fringe seal.



CAD file: DWG
624.PVT.2

Wide Stiles:
We offer wide pivot and meeting stiles.

Meeting stiles for pivot and hinged doors, shown below.



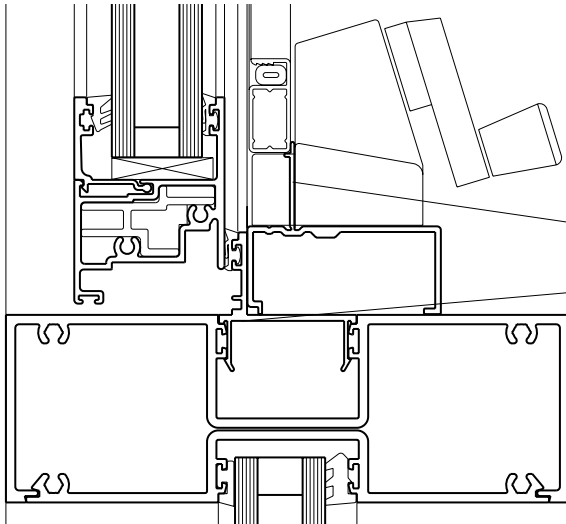
Series 624

CentreGLAZE™ Double Glaze Framing

DATE: NOV 12
 REPLACES: MARCH 08
 SCALE: FULL SIZE & HALF FS

AWNING SASH INSERT - NON-FACING SASHES

Externally beaded sash 72840



Manual chain winder.

Winders are usually fitted to allow easy fitting of flyscreens.

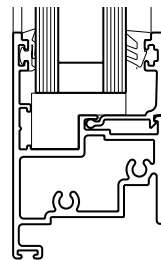
Polesium™ manual chain winder comes with key locking as standard. The main feature with this winder is the corrosion resistant base and stainless steel chain.

Custom winder base has screen support upstand.

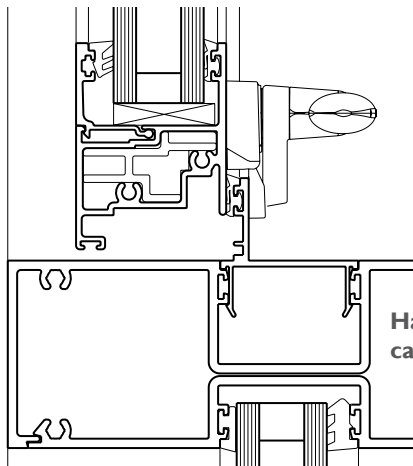
Custom awning sash stop snaps into pocketed frame.



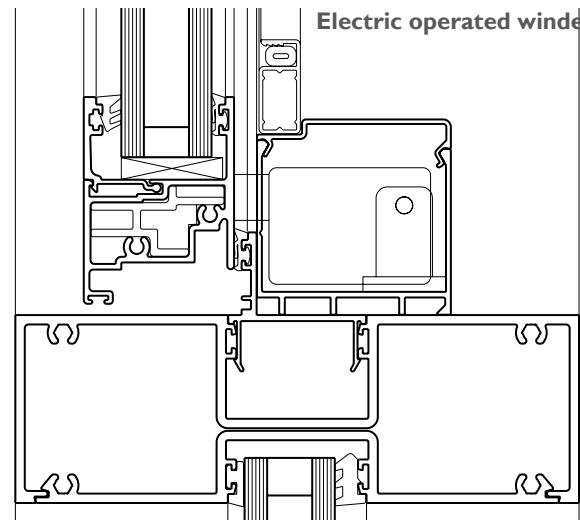
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 624.AWN.I



Internally beaded sash 72841 also available.



Hand operated cam handles.



Electric operated winder.



SOUND REDUCTION

Series 624 CentreGLAZE™ framing with an awning sash insert will achieve sound reduction numbers listed below.

Glass Description	Rating
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
24mm IGU (5mm glass / 12mm air gap / 5mm glass)	Rw35

NOTE: The actual tests were carried out on products very similar (Series 466 and 616) that gave these results