



Series 400
CentreGLAZE™ Framing
Single Glazed 102mm

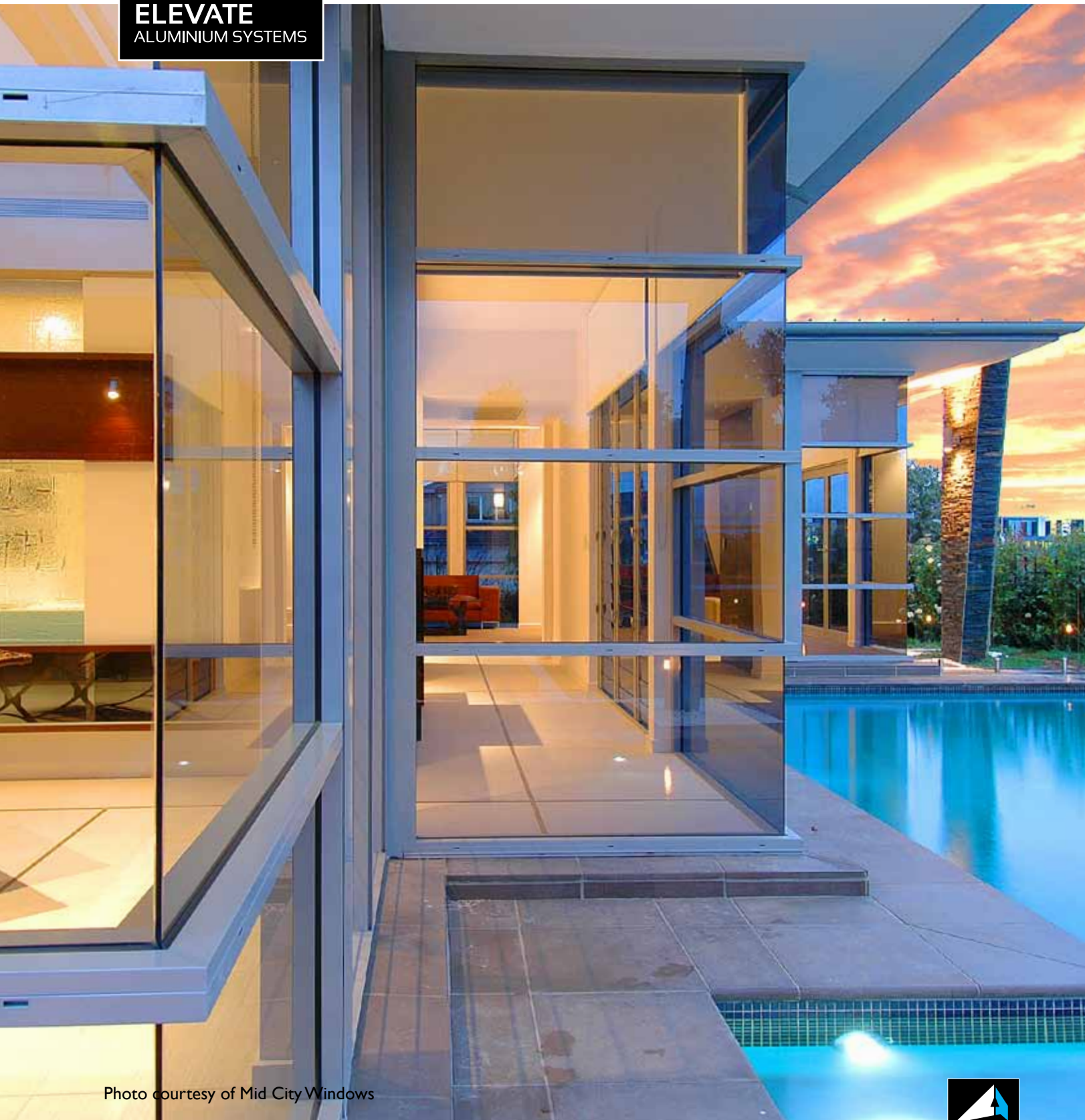


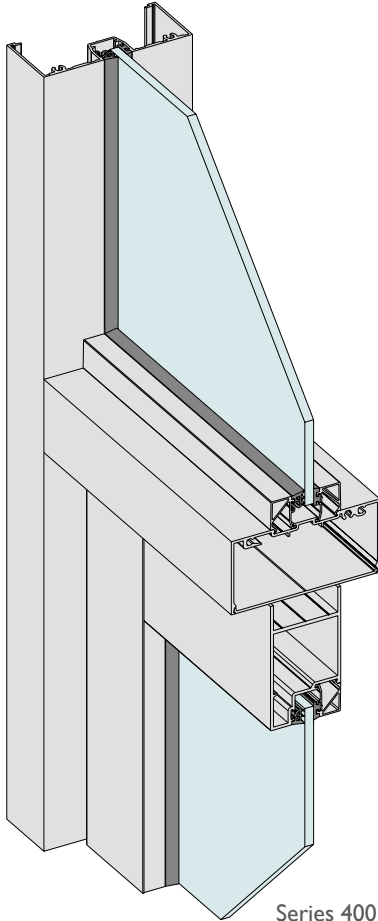
Photo courtesy of Mid City Windows



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

KEY FEATURES/PERFORMANCE CHARACTERISTICS



Series 400 CentreGLAZE™ Framing
Single Glaze 102mm. External view.

- Series 400 CentreGLAZE™ shopfront framing – 102mm frame for single glazed applications.
- True captive glazing wedge allows reglazing from inside – ideal in elevated applications.
- The captive wedge also offers increased security.
- Wide range of sub-sills to cover most installations, including sub-sills with integrated nailing fin ideal for residential installations.
- Sub-head and two piece sub-jamb.
- Numerous door thresholds including weather resisting thresholds for external and internal swing doors.
- Framing will accept fixed aluminium or adjustable glass louvre blades. Series 52 door panels can be fitted with fixed aluminium louvre blades.
- Snap together corners including 135°
- Framing will accept Series 50, 51 and 52 commercial hinged, pivot or sliding doors.
- Top hung or bottom rolling heavy duty sliding doors designed to keep water out.
- Compatible with most other Elevate™ Commercial and Architectural Series systems.

Maximum Glass Thickness	≤ 10.50mm
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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/400

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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
6.38mm Laminated glass	Rw32
6.50mm VLam Hush glass	Rw34
10.38mm Laminated glass	Rw 34
10.50mm VLam Hush glass	Rw 37



WERS RATINGS

Single Glazed

Window ID	Glass Type	Uw	SHGCw	Tvw	Inf
AWS-027-01	4SnClr	4.38	0.56	0.62	0.00
AWS-027-02	6SnClr	4.34	0.54	0.62	0.00
AWS-027-03	6EVanBG	4.07	0.41	0.51	0.00
AWS-027-04	6EVanClr	4.07	0.57	0.61	0.00
AWS-027-05	6EVanGy	4.07	0.37	0.29	0.00
AWS-027-06	6EVanSpB	4.07	0.33	0.35	0.00
AWS-027-07	6EVanSpGn	4.07	0.33	0.44	0.00
AWS-027-08	6.38LamSpGy	5.84	0.32	0.12	0.00
AWS-027-09	6.38TLam	5.83	0.37	0.30	0.00
AWS-027-10	6.38SnClr	4.26	0.53	0.62	0.00
AWS-027-11	6.38SnGy	4.26	0.39	0.29	0.00
AWS-027-12	6.38CPClr	3.87	0.62	0.75	0.00
AWS-027-13	6.38CPGn	3.87	0.46	0.65	0.00
AWS-027-14	6.38CPGy	3.88	0.45	0.36	0.00
AWS-027-15	10SnClr	4.27	0.52	0.60	0.00
AWS-027-16	10.50LamClr	5.67	0.58	0.61	0.00
AWS-027-17	10.50LamSpGy	5.66	0.24	0.10	0.00
AWS-027-18	10.50Tlam	3.80	0.46	0.55	0.00
AWS-027-19	10.50SnClr	4.20	0.50	0.60	0.00

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 400 Single Glazed CentreGLAZE™ Framing

FINISH

Powder Coat
Anodised

COLOUR

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

GLASS

Specify thickness ≤10.50mm

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.

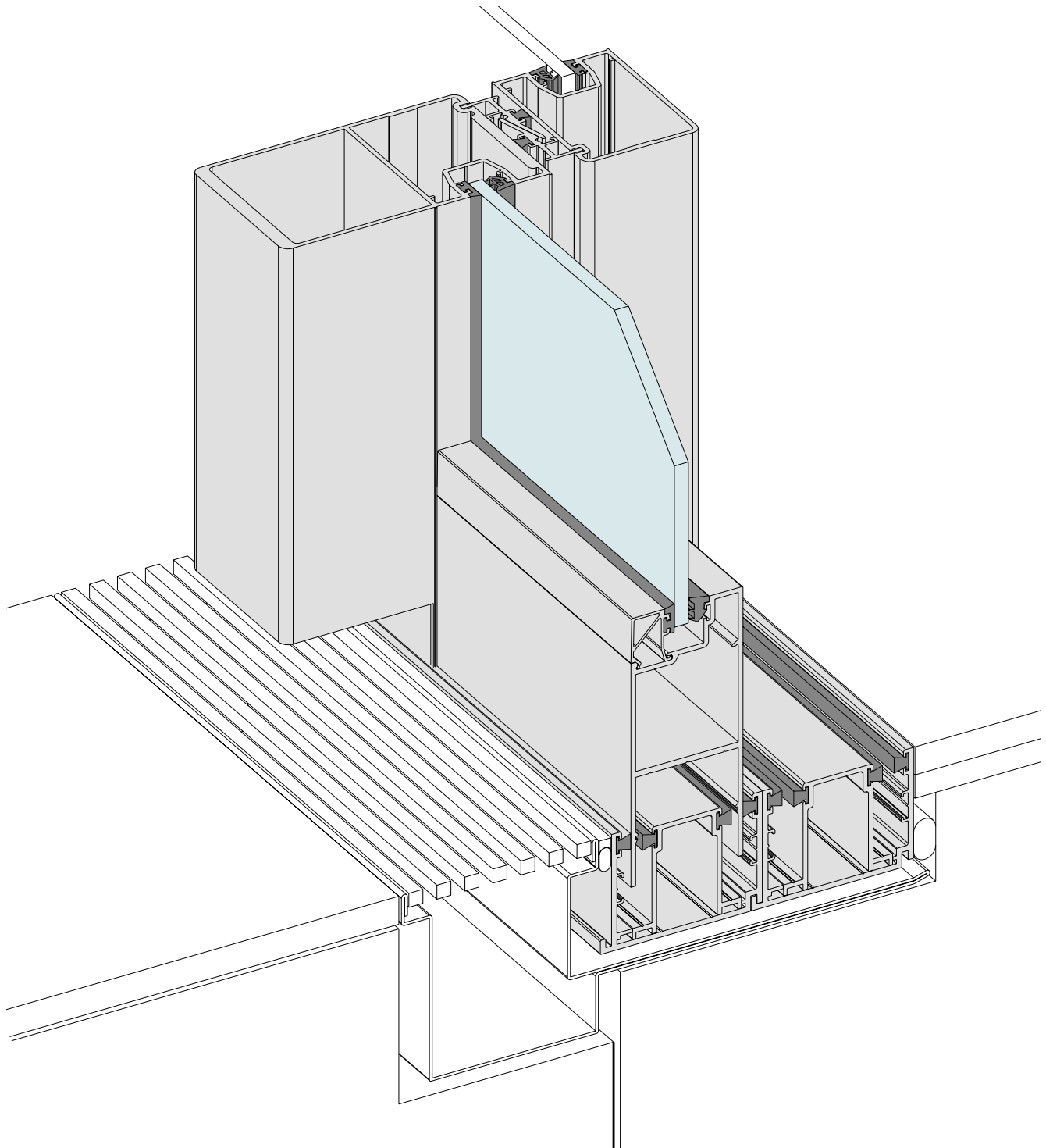
Series 400 CentreGLAZE™ Framing

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HIGH PERFORMANCE SLIDING DOORS

Series 400 covers a large range of framing and door options including high performance sliding doors that are designed to resist high wind loads and water intrusion.

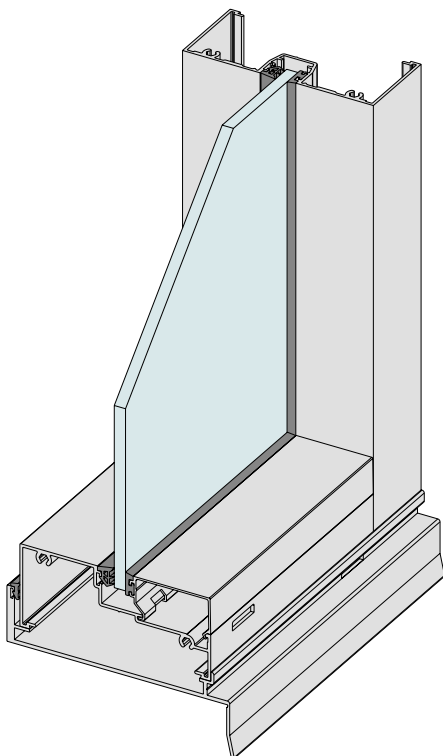
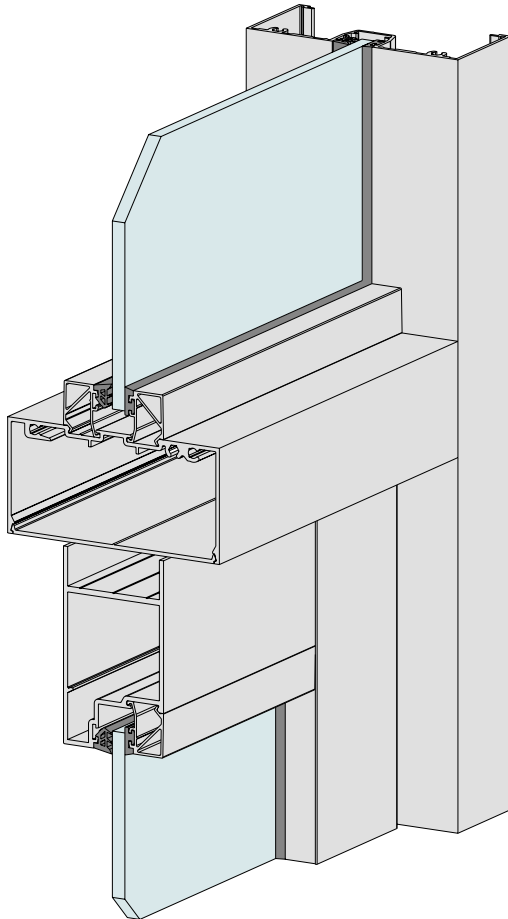
The following pages will show more details on all of the door options including performance sliding doors.



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DESIGN FEATURES



- This 102 x 44mm framing system and matching doors have been designed to be compatible with other Elevate™ Aluminium Systems. A large range of extrusions have been provided to complete the package making it easier for designers to use the products.
- Glazing pocket in frame and doors designed to be compatible with industry standard but with the added features of a truly captive glazing wedge option and the ability to screw fix midrails to framing without having to go through the back of the pocket.
- Recessed glazing wedges look cleaner and smarter. They also reduce the chance of vandalism.
- Three frame strengths cover most situations.
- Three 50mm thick heavy duty door options including fully beaded. Our 50mm door platform is much stronger than industry standard 44mm thick doors and enables large doors to be fabricated which still comply.
- True fully rebated French meeting stiles and wide stiles available.
- Narrow (25mm) and wide (50mm) frames available.
- Heavy duty sliding doors designed for exposed locations. These doors fitted with custom commercial locks and stainless steel furniture to complete the package.
- Four midrail sizes to choose from (50, 115, 125 and 200mm deep).
- Some of the other custom extrusions include:
 - Sub-frames.
 - Nursing home door sill for hinged doors.
 - Nailing fin frames for residential applications.
 - Overhead and bottom running sliding door track systems.
 - Awning sash inlays including concealed electric winders.
 - ClearVENT™ sashless double-hung inlay adaptors.
 - Flydoor adaptors.
- Full size illustrations on most of these features plus comments are covered on the following pages and can be seen in full colour and animation on our website: www.elevatealuminium.com.au

Compatibility:

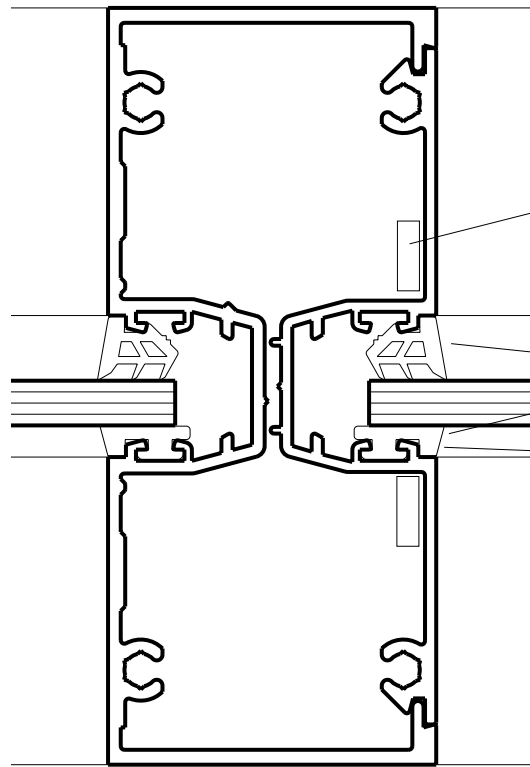
A number of compatible framing suites are available that can be coupled or used together:

- Series 400 CentreGLAZE™ framing.
- Series 410 FoldMASTER™ Bi-fold doors and windows.
- Series 411 ViewMASTER™ Bi-fold doors and windows.
- Series 412 FoldMASTER™ Bi-fold doors.
- Series 406 FrontGLAZE™ framing (102mm wide).
- Series 407 FaceLINE™ framing (102mm wide).
- Series 701 SlideMASTER™ windows.
- Series 702 Performance SlideMASTER™ door (102mm wide).
- Series 704 Architectural SlideMASTER™ door (102mm wide).
- Architectural commercial windows.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
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SCALE: FULL SIZE

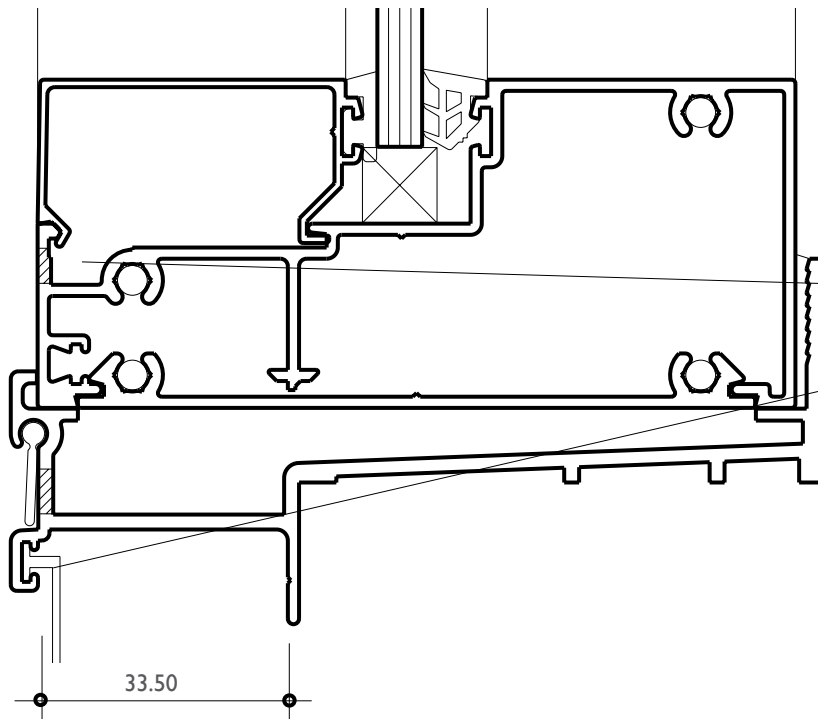
FRAME DESIGN FEATURES



Series 400 - 102 (101.60) x 44mm frame

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

- Pocket has been designed to allow the same door midrails to be securely screw fixed on both sides of framing pocket. This avoids screws at the back of the pocket that can work loose and need to be countersunk to avoid clashing with the adjoining sidelight fixings.
- Glazing wedges are fully recessed into the frame.
- Accept true captive wedge glazing to reduce on-site time/costs. This pocket will also accept roll-in wedges on both sides. Pocket can also be wet top Silicone glazed.



Alternative - Nailing fin frame

Knowing that CentreGLAZE™ Framing is used in cavity brick and brick veneer construction, Elevate™ offers a number of sections designed to make this installation easier and more professional:

- Sill has built-in sump where water that gets into the system will be collected. Drainage slots in front face.
- Front leg on sill and sub-sill has recess to accept flexible sill flap.
- Sub-sill has built-in nailing fin/weather bar.

We always recommend sub-sills under commercial framing. The sub-sill shown left has built-in nailing fin.

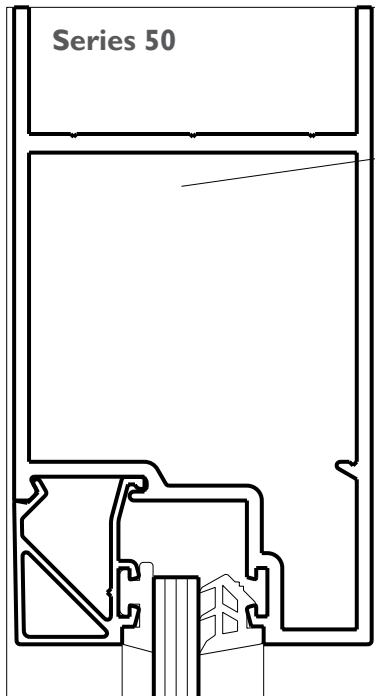
We have other sub-sills, refer Installation section.

33.50

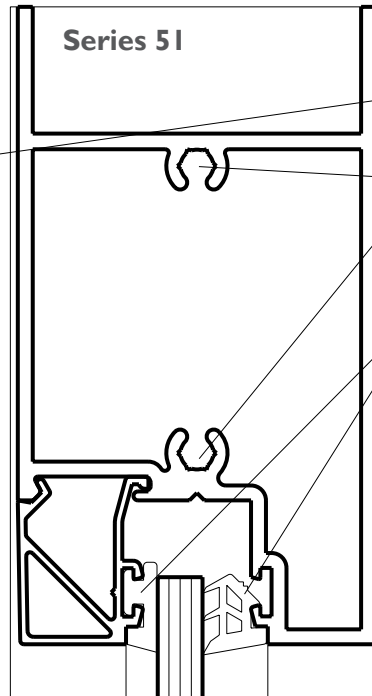
Series 400 CentreGLAZE™ Framing

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SCALE: FULL SIZE

DOOR DESIGN FEATURES



Series 50



Series 51

Three door options

Conventional single beaded rails that will accept aluminium spigot (Series 50).

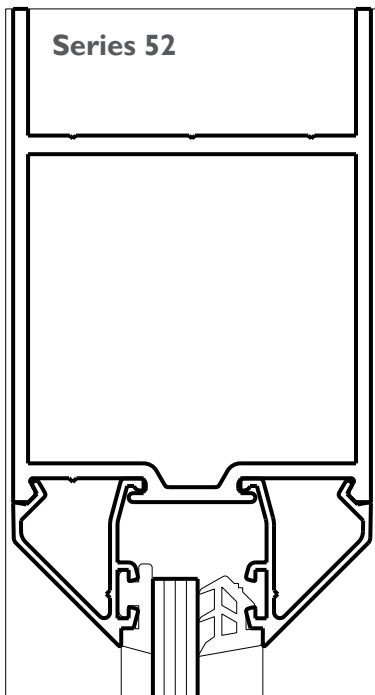
Alternative screw together single beaded doors (Series 51).

Door rails, stiles, midrails and glazing beads have the same recess as framing (to accept the captive wedge).

- There are four midrails to choose from (50, 115, 125 and 200mm deep). These midrails can be securely fixed to doors and framing.

Important Note:

All three doors are 50mm wide. This allows the production of over height doors up to 3000mm which will comply with AS 2047, refer span tables 1.69.

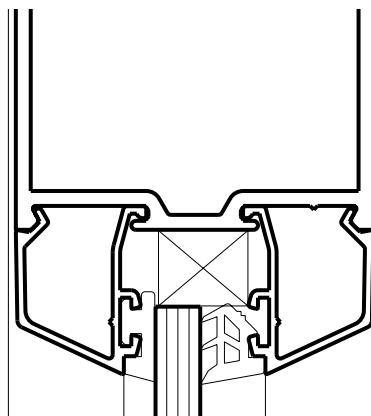


Series 52

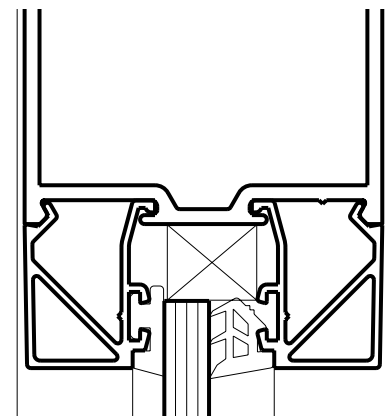
- The third option (Series 52) is fully beaded inside and out.

- **Three bead options** for all door types 45°, 25° and 90°.

On the fully beaded (Series 52) door we also offer glazing beads to accept glass up to 34mm thick Insulating Glass Units (IGU's).



25° splayed beads

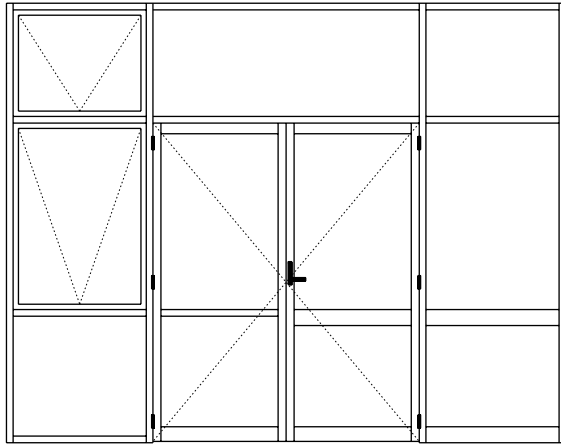


90° square beads

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TYPICAL CONFIGURATIONS

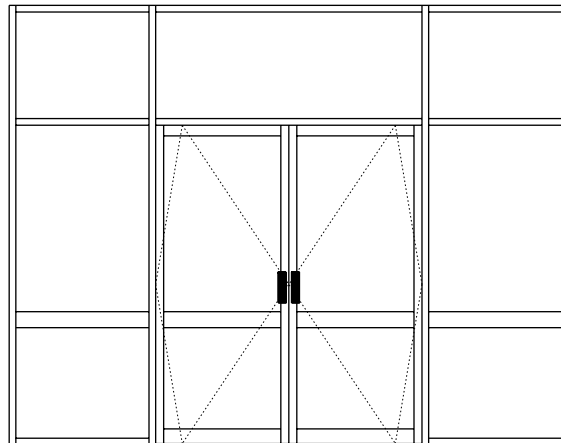


Hinged doors, fixed lights and awning sash inserts.

- The 50mm thick hinged doors are designed for oversize panels with a maximum recommended size of 3000mm high by 1000mm wide - refer door span chart I.69.
- Series 400 will accept fixed glazing up to 10.50mm thick.
- Awning sashes can be inserted into sidelights and / or highlights, refer I.140. Awnings can be fitted with manual or concealed electric winders or hand operated cam type handles.

The illustration left shows alternative midrail and fixed sill heights, refer I.86.

The hinge quantity will vary depending on panel size and weight.



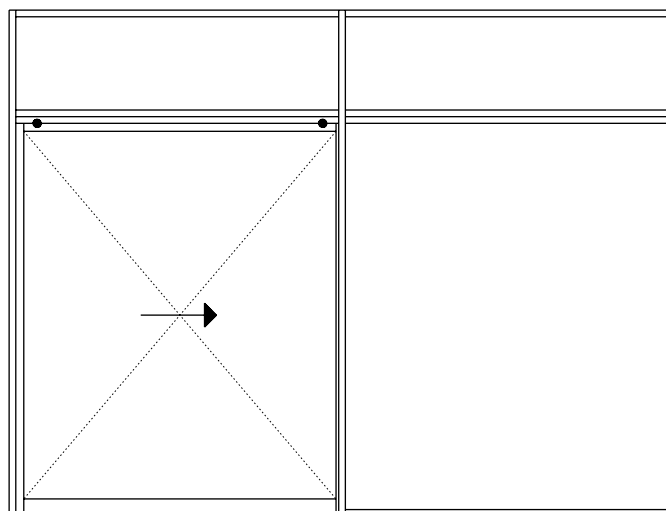
Pivot doors with fixed sidelights and highlights.

- The 50mm thick pivot doors are designed for oversize panels with a maximum recommended size of 3000mm high by 1000mm wide - refer door span chart I.69.
- We offer a variety of door types from wrap around Series 50 to fully beaded Series 52, refer detailed information on each door starting on I.62.

The illustration left shows standard 125mm midrail and 44mm high fixed sill

Typically pivot doors have no threshold or double ramped lowline threshold shown on I.84. Both of these options are not suitable for sub-sill applications.

If you want a sub-sill under a pivot door use the single ramp COC threshold shown on I.85



Top hung sliding door - Cowdroy rollers.

- We have a dedicated overhead sliding door track system specifically designed to accept Cowdroy heavy duty rollers, refer I.100
- The track system will accept Series 50 or 52 door panels.
- The 50mm thick sliding doors are designed for oversize panels with a maximum recommended size of 3000mm high by 2500mm wide - refer door span chart I.120

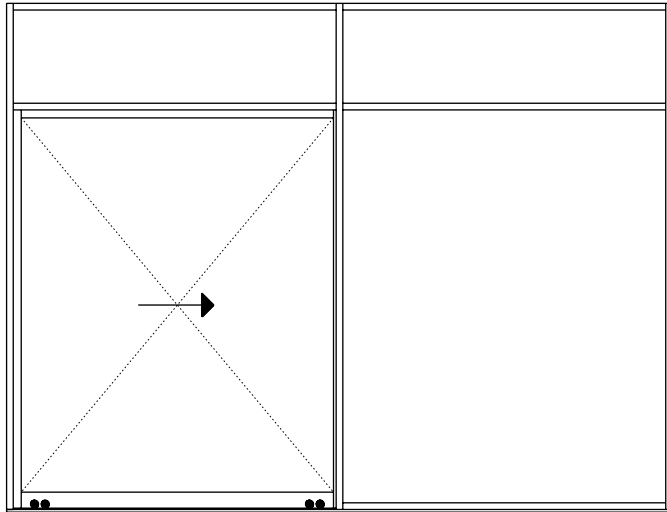
The sill can be flat and open with no obstructions as shown left. This would be suitable for commercial applications ie. showrooms.

For weather resisting sill details use the E3 top hung sliding door with recessed sill, refer I.105.

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TYPICAL CONFIGURATIONS

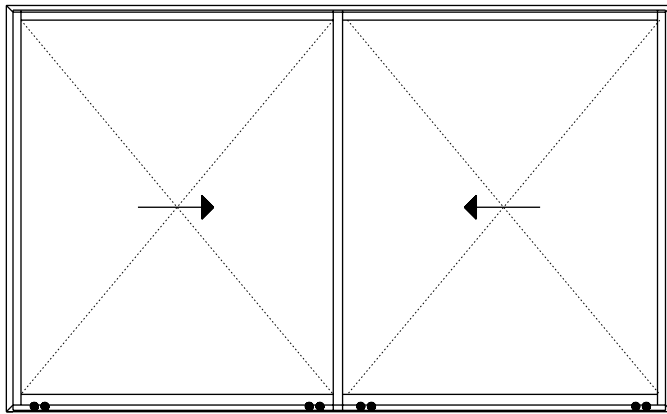


Bottom rolling sliding door into Series 400 framing.

- We have a dedicated bottom rolling sliding door track system specifically designed to accept heavy duty bottom rollers, refer page I.112
- The track system will accept Series 50 or 52 door panels.
- The 50mm thick sliding doors are designed for oversize panels with a maximum recommended size of 3000mm high by 2500mm wide - refer door span chart page I.121
- Bottom rollers will support panels up to 150Kg.

The roller can run on flat 'P' type tracks, refer page I.114 but be aware this detail has no water resistance.

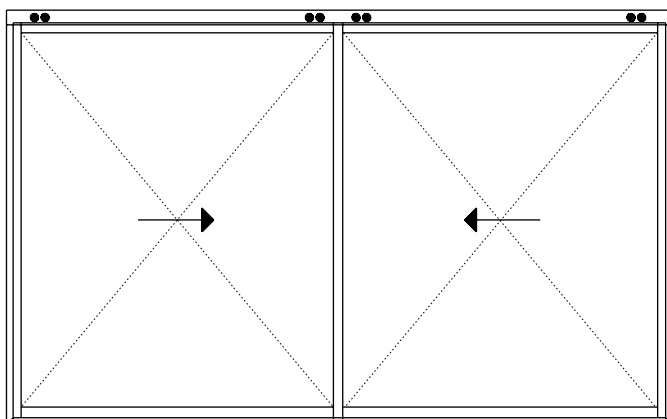
For weather resisting sill details refer I.110.



Bottom rolling sliding door into Channel frame.

- We have a dedicated overhead sliding door track system specifically designed to accept heavy duty bottom rollers, refer page I.110.
- The track system will accept Series 50 or 52 door panels.
- The 50mm thick sliding doors are designed for oversize panels with a maximum recommended size of 3000mm high by 2500mm wide - refer door span chart page I.120
- Bottom rollers will support panels up to 150Kg.
- Wide backset locks with spring loaded keeper make this door work and custom pulls, refer I.126.

This recessed sill will keep water out, refer page I.110.



Top hung sliding door - E3 rollers.

- We have a dedicated overhead sliding door track system specifically designed to accept Centor E3 heavy duty top rollers, refer page I.104.
- The track system will accept Series 50 or 52 door panels.
- The 50mm thick sliding doors are designed for oversize panels with a maximum recommended size of 3000mm high by 2500mm wide - refer door span chart page I.120
- The E3 gear will support panels up to 250Kg.
- Wide backset locks with spring loaded keeper make this door work and custom pulls, refer page I.126.

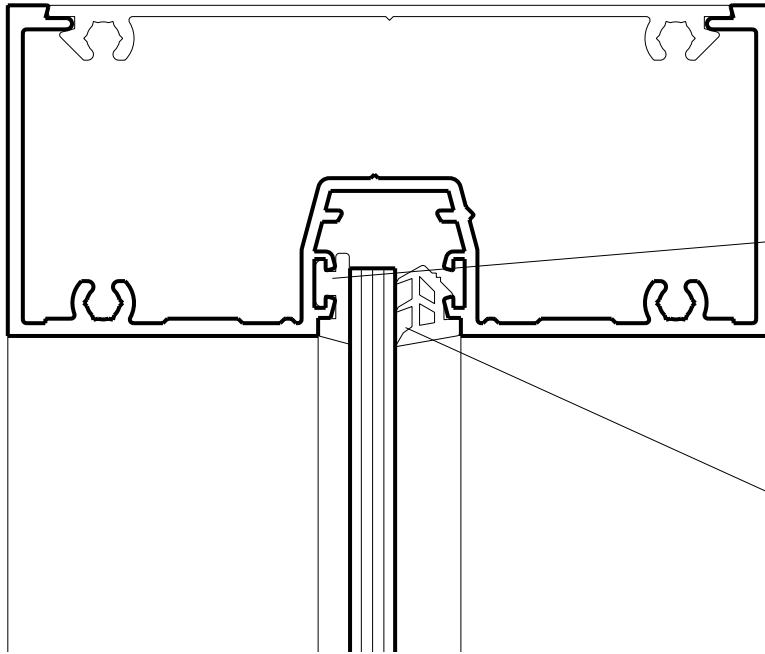
The sill can be flat an open with no obstructions as shown left. This would be suitable for commercial applications ie. showrooms.

For weather resisting top hung sliding door with recessed sill, refer page I.105.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

FRAME OPTIONS



Three standard frame strengths cover most requirements. Medium strength open back head and sill illustrated left.

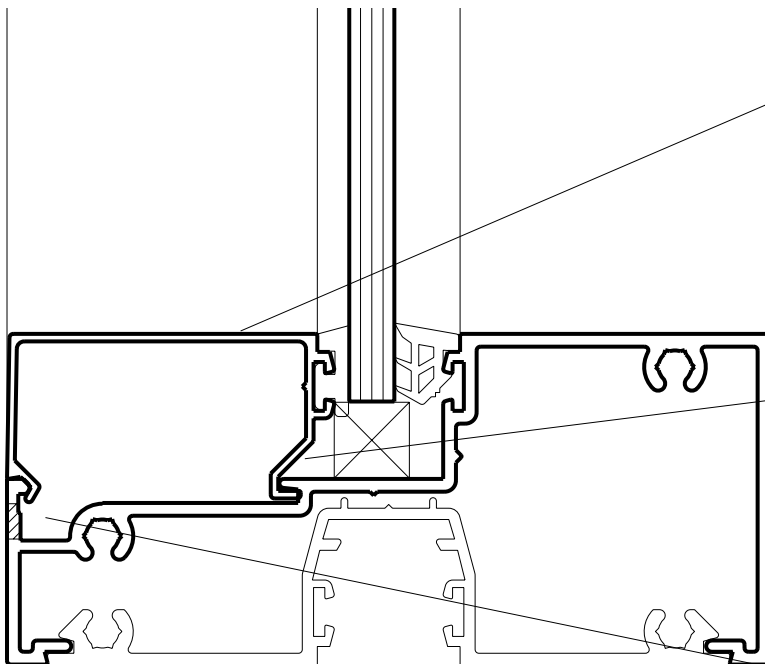
All Elevate™ commercial frame and door sections have a true captive glazing wedge option as illustrated left.

The system also suits:

- Roll-in wedges both sides.
- Silicone seal external with roll-in wedge on the inside.

Standard glazing pocket will accept glass thickness up to 10.50mm.

For double glazing refer Series 424 I.151.



Two glazing bead types:

- Square bead, as shown left.
- Splayed bead also available.

Glazing beads notched to allow water out of the glazing pocket area.

Sill/transom can be closed off with custom pocket closer when sub-sills are not being used.

Note:

We always recommend sub-sills under commercial frames

Sump area in sill/transom to collect water; this water is then drained out of the system via drainage slots.

101.60mm frame depth



CAD file: DWG
400.FXD.I

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

FRAME OPTIONS

A dedicated residential frame. Ideal for brick veneer and cavity brick installations.

Main nailing fin frame features:

- Sub-sill can be fitted with timber reveals.
- Frame accepts height adjustable galvanised building-in lugs
- Sill can be fitted with flexible flap to close off sill to brick gap.
- Will accept internal frame closer to allow additional line of reveal fixings and support frame junction.

All Elevate™ commercial frame and door sections have a true captive glazing wedge option as illustrated right.

The system also suits:

- Roll-in wedges both sides.
- Silicone seal external with roll-in wedge on the inside.

Standard glazing pocket will accept glass thickness up to 10.50mm.

Two glazing bead types:

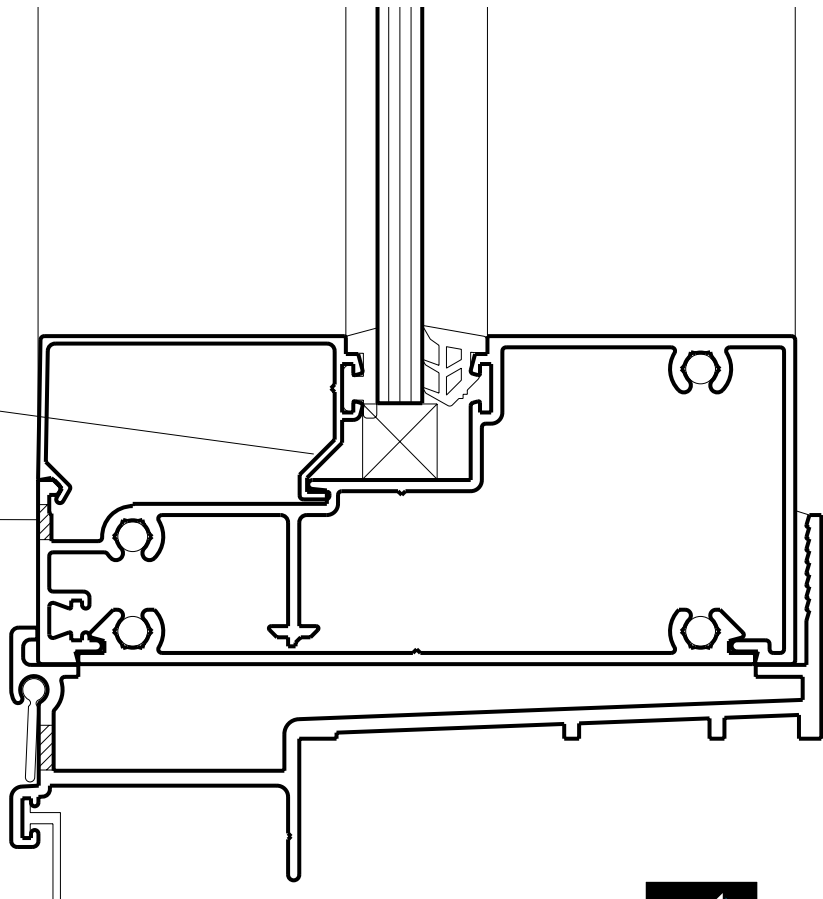
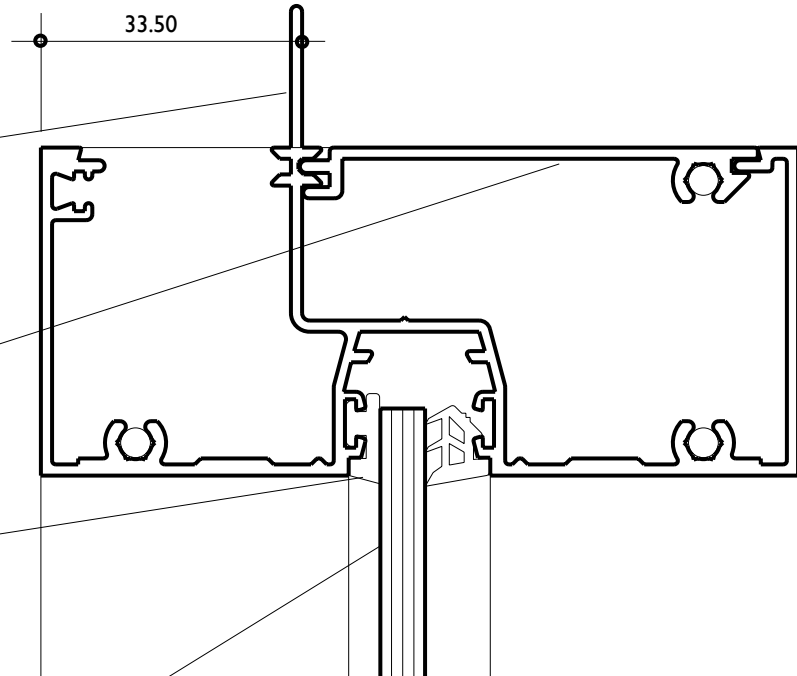
- Square bead, as shown left.
- Splayed bead also available.

Glazing beads notched to allow water out of the glazing pocket area.

Sump area in sill/transom to collect water, this water is then drained out of the system via drainage slots.

We offer an optional matching nailing fin sub-sill to complement the nailing fin frame.

We always recommend sub-sills under commercial frames.

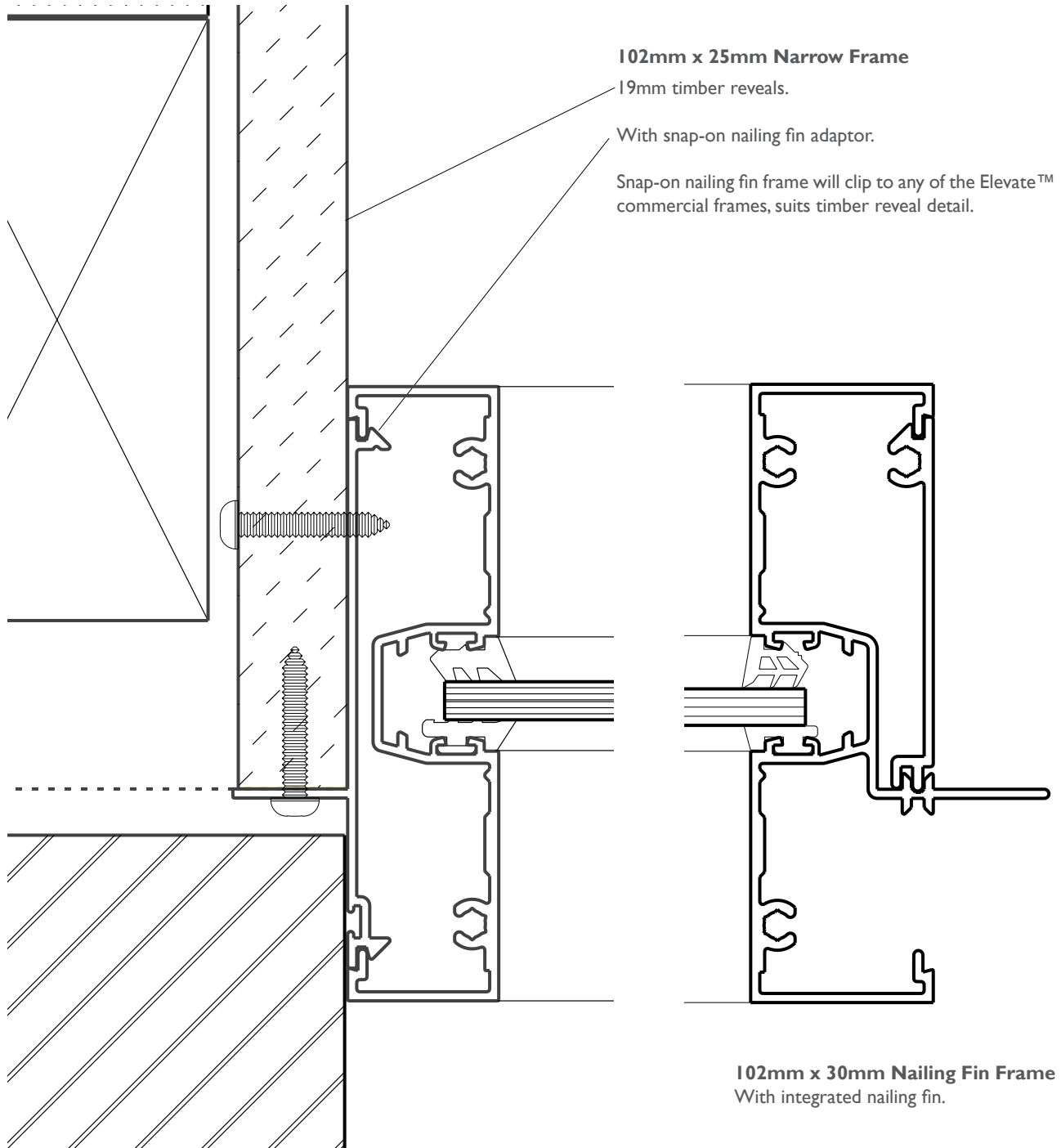


CAD file: DWG
400.FXD.I

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OPTIONAL NARROW FRAMES



CAD file: DWG
 400.FXD.3

The 25mm frame can be used around the perimeter (jamb and head). The 44mm sill is required to get the removable glazing bead. At least one removable bead is required per fixed opening to allow glazing/reglazing.

Mullion/s would also be 44mm wide.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
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SCALE: FULL SIZE & NTS

MULLION OPTION - SNAP TOGETHER

Snap Mullions

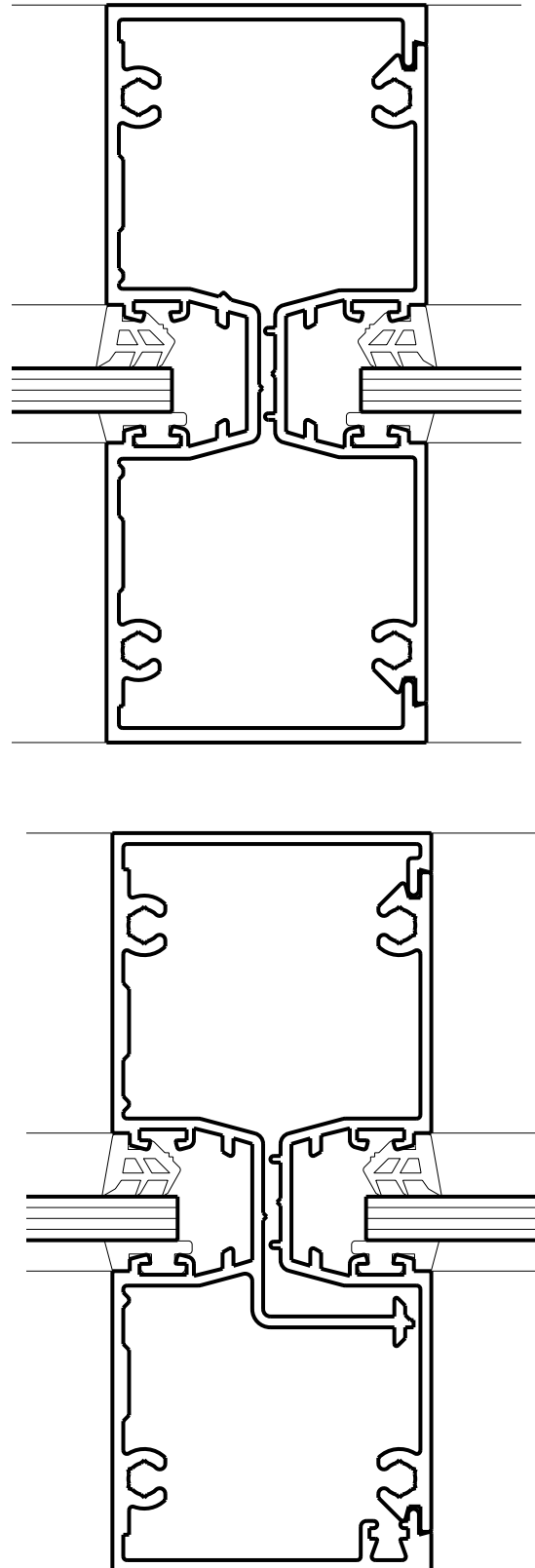
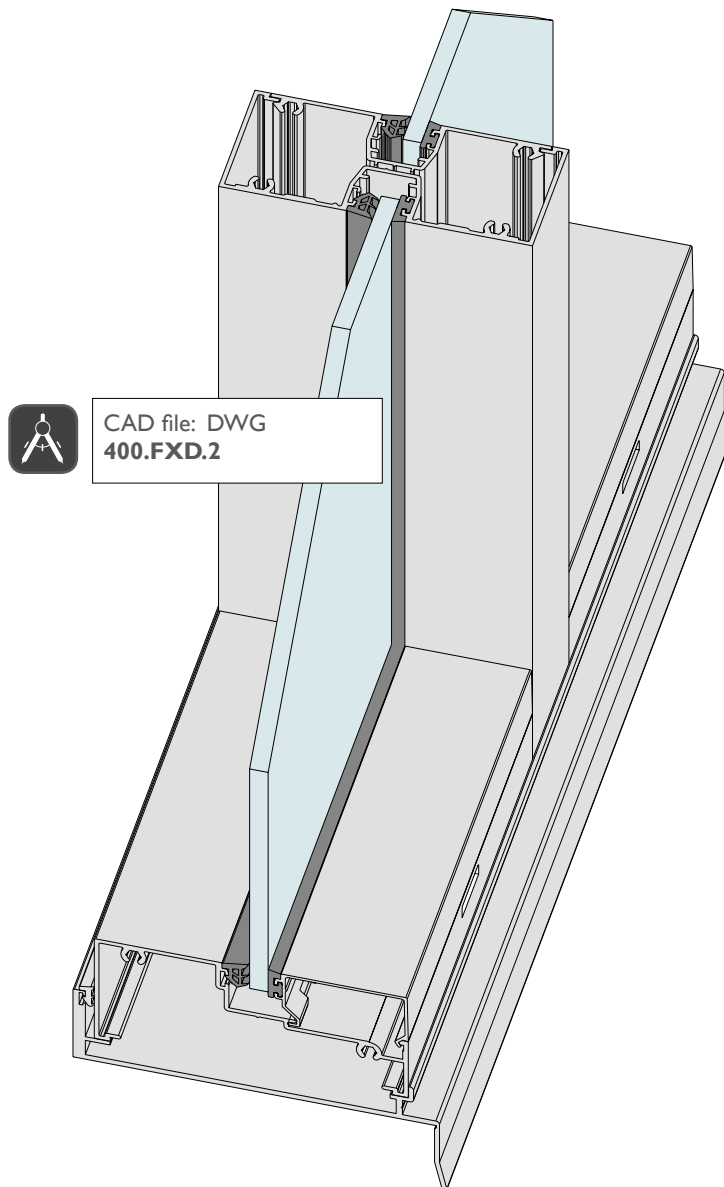
The three open back frame sections can be used to create a snap together mullion.

Medium version illustrated right.

Refer Pascal rating tables 1.60 for strength examples.

On long runs of shopfront framing where allowance for expansion is required use one of the expansion mullions shown on following page.

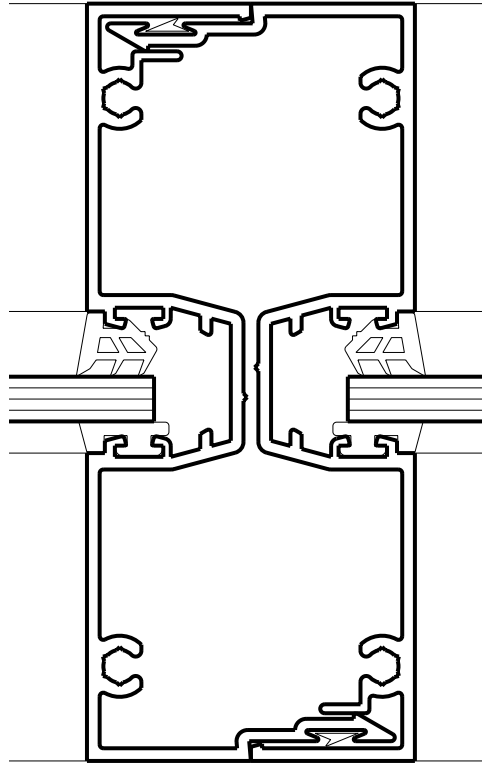
The nailing fin frame can also be used as a snap mullion as shown lower right.



Series 400
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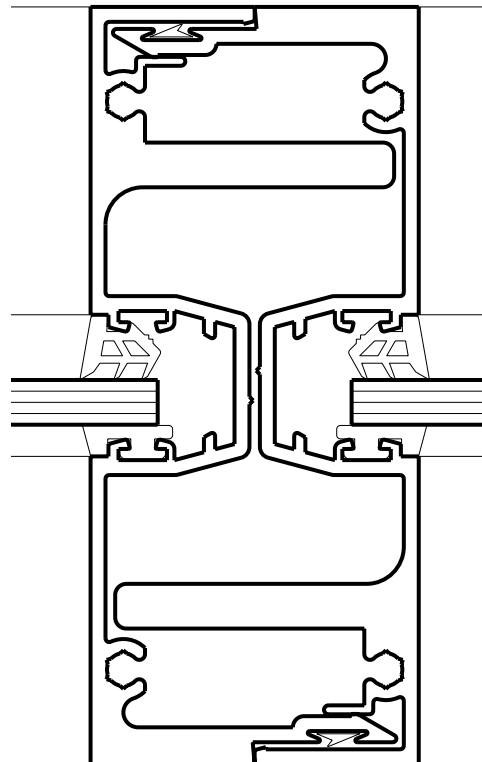
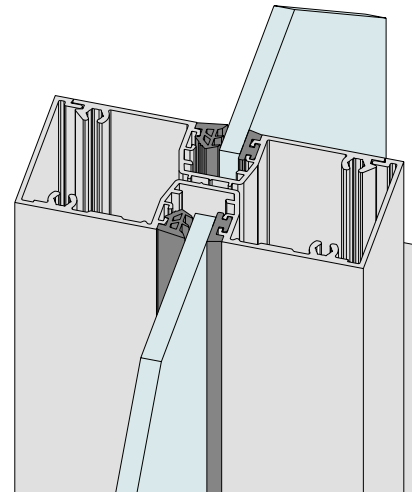
DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

MULLION OPTION - INTERLOCKING



The two interlocking mullions shown on this page are ideal on longer runs of framing where expansion will be encountered.

Light interlocking mullion illustrated top left.

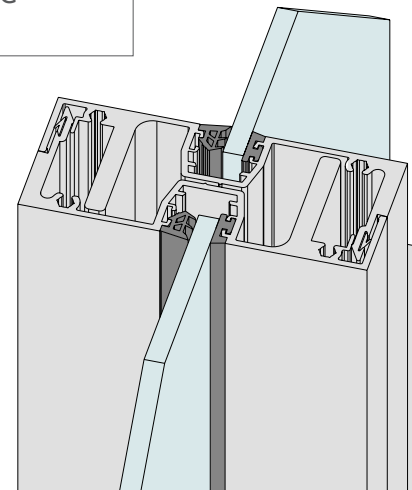


Heavy interlocking mullion illustrated bottom left.

Refer Pascal rating tables I.60 for the appropriate mullion combination.



CAD file: DWG
 400.FXD.2



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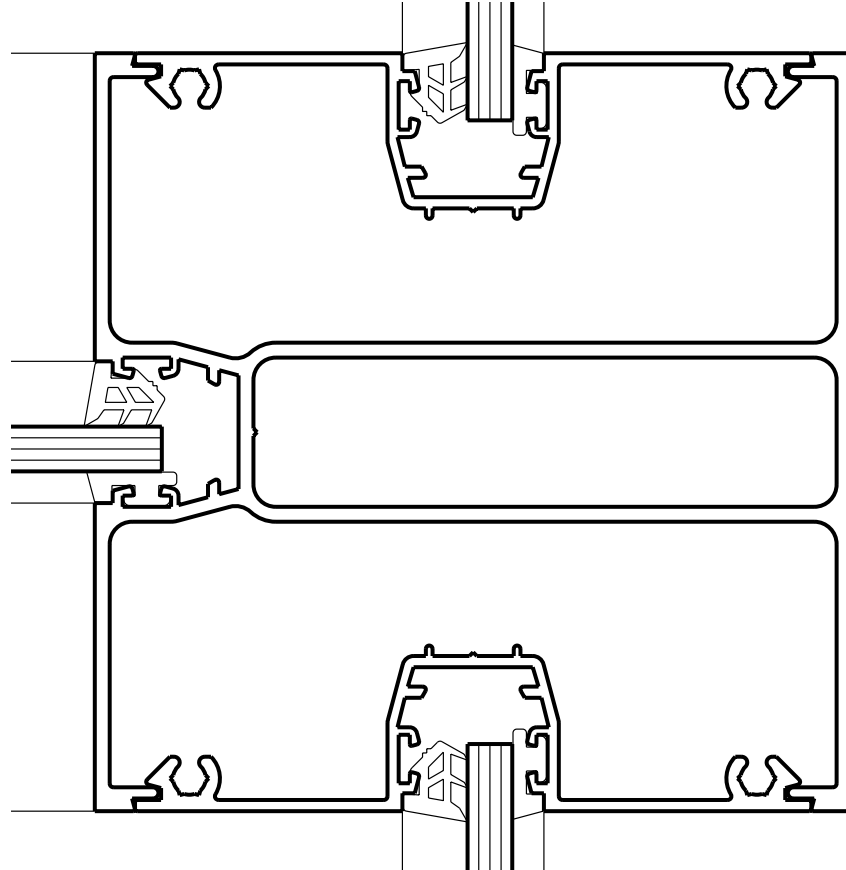
CORNER MULLIONS

'T' Mullion

Heavy duty 90° corner mullion can also be used for 'T' intersections as shown right.

The hollow corner mullion is significantly stronger than the single web mullion, which is common in the industry

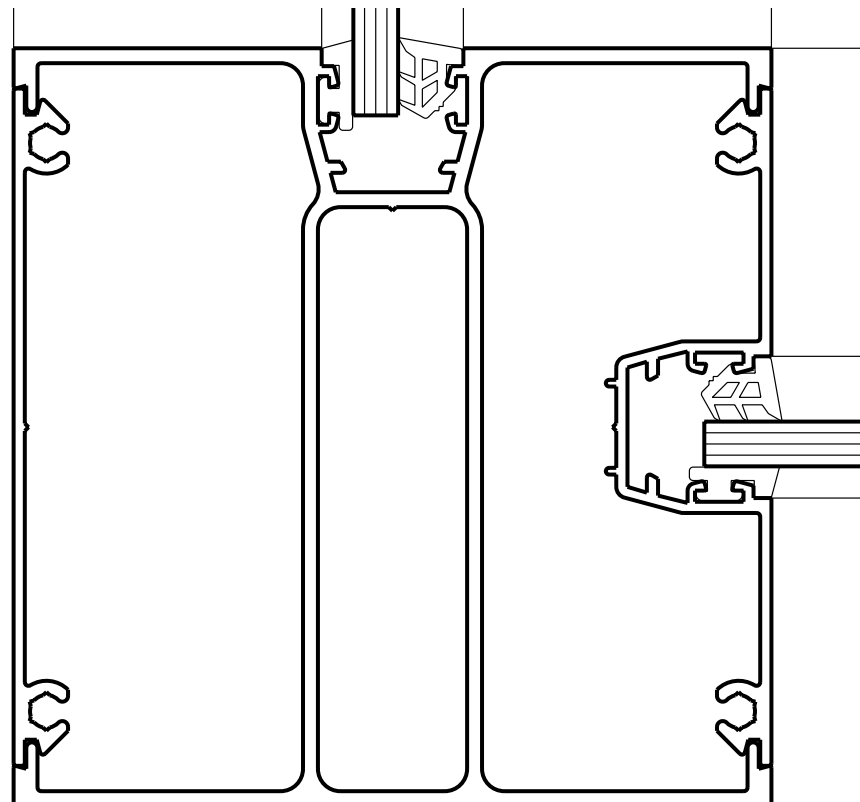
This extra strength is critical to keeping the snap-in fillers in place and allowing the fitting of door panels.



CAD file: DWG
400.FXD.2

90° Mullion

Designed to carry the wind load and resist un-snapping under severe conditions.



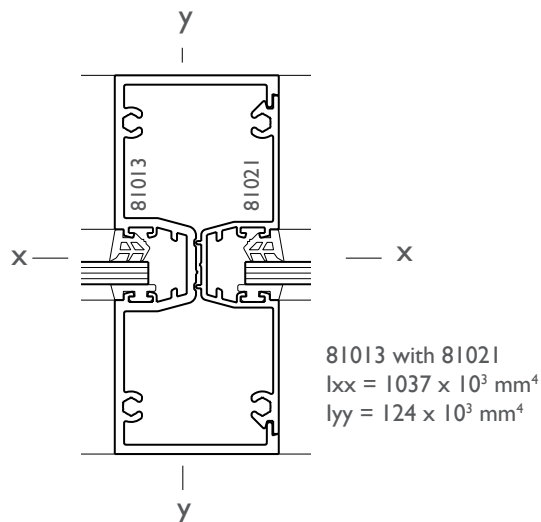
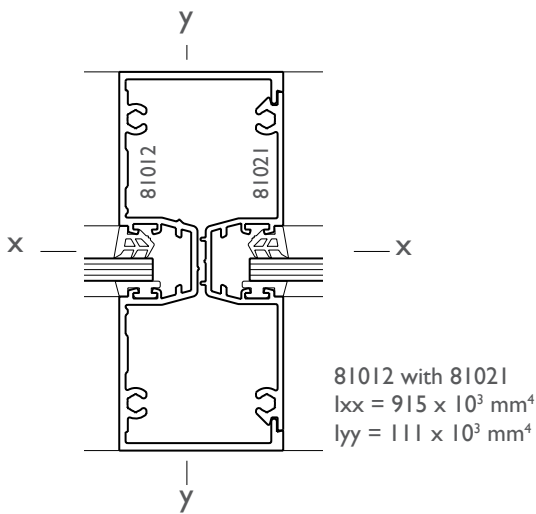
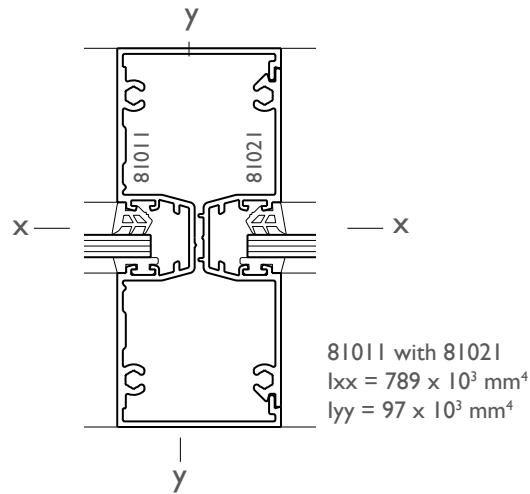
Note:

Aluminium frame members are not designed to carry the weight of the wall/roof over.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
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SCALE: HALF FULL SIZE

MULLION STRENGTH



Height mm	Mullion centres mm						
	800	1000	1200	1400	1600	1800	2000
1800	S	3333	2999	2632	2407	2283	2242
	U	5000	4499	3948	3611	3425	3364
2000	S	2824	2346	2049	1859	1732	1659
	U	4317	3567	3096	2791	2597	2488
2200	S	2098	1731	1498	1345	1243	1178
	U	3533	2902	2499	2231	2050	1932
2400	S	1602	1315	1131	1008	922	864
	U	2947	2410	2064	1829	1666	1552
2600	S	1251	1023	876	776	705	655
	U	2497	2035	1735	1530	1384	1279
2800	S	997	812	693	611	552	509
	U	2143	1742	1481	1300	1170	1075
3000	S	807	656	558	-	-	-
	U	1860	1509	1279	-	-	-

Wind Ratings (Pa) mullion 81011 and filler 81021.

Height mm	Mullion centres mm						
	800	1000	1200	1400	1600	1800	2000
1800	S	3333	3333	3018	2760	2617	2570
	U	5000	5000	4526	4140	3926	3856
2000	S	3234	2686	2346	2128	1985	1901
	U	4949	4088	3549	3200	2978	2852
2200	S	2402	1982	1716	1540	1424	1349
	U	4050	3326	2865	2558	2350	2215
2400	S	1834	1506	1295	1154	1056	990
	U	3378	2762	2366	2097	1910	1780
2600	S	1433	1172	1003	888	807	750
	U	2862	2333	1989	1753	1586	1466
2800	S	1141	930	793	699	632	583
	U	2457	1997	1697	1490	1341	1232
3000	S	924	751	639	561	505	-
	U	2133	1730	1466	1283	1150	-

Wind Ratings (Pa) mullion 81012 and filler 81021.

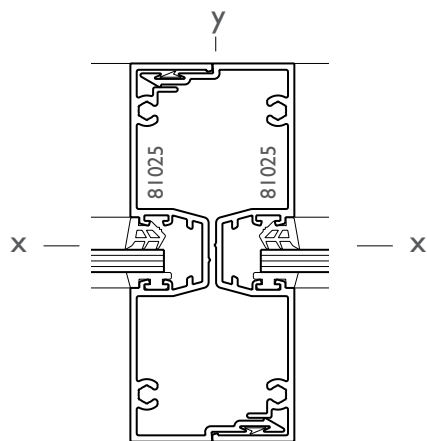
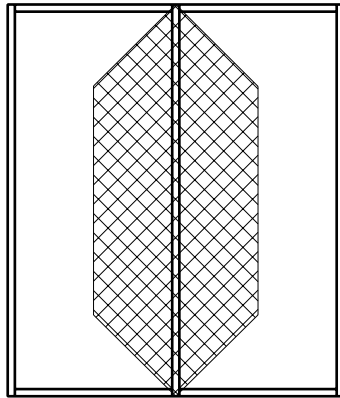
Height mm	Mullion centres mm						
	800	1000	1200	1400	1600	1800	2000
1800	S	3333	3333	3333	3127	2966	2913
	U	5000	5000	5000	4691	4448	4369
2000	S	3333	3044	2659	2412	2249	2155
	U	5000	4633	4022	3626	3374	3232
2200	S	2723	2246	1945	1746	1614	1529
	U	4589	3769	3247	2898	2663	2510
2400	S	2079	1707	1468	1308	1197	1122
	U	3828	3130	2681	2376	2164	2016
2600	S	1624	1328	1137	1007	915	850
	U	3243	2643	2254	1987	1797	1661
2800	S	1294	1054	899	793	716	661
	U	2784	2263	1923	1688	1520	1396
3000	S	1047	852	724	636	572	525
	U	2417	1960	1661	1454	1303	1192

Wind Ratings (Pa) mullion 81013 and filler 81021.

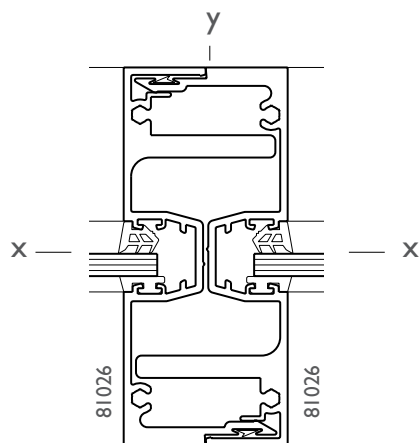
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE

MULLION STRENGTH



81025 with 81025
 $I_{xx} = 1001 \times 10^3 \text{ mm}^4$
 $I_{yy} = 78 \times 10^3 \text{ mm}^4$



81026 with 81026
 $I_{xx} = 1836 \times 10^3 \text{ mm}^4$
 $I_{yy} = 198 \times 10^3 \text{ mm}^4$

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	
1800	S	3333	3333	3104	2839	2692	2644	2696
	U	5000	5000	4656	4259	4039	3967	4044
2000	S	3333	2804	2434	2194	2042	1956	1928
	U	5000	4206	3651	3292	3063	2934	2892
2200	S	2628	2168	1877	1685	1558	1476	1430
	U	4167	3422	2948	2631	2418	2279	2199
2400	S	2007	1647	1417	1262	1156	1083	1035
	U	3476	2842	2434	2157	1964	1831	1742
2600	S	1568	1282	1098	972	883	820	777
	U	2945	2400	2046	1804	1632	1508	1421
2800	S	1249	1018	868	765	691	638	599
	U	2528	2054	1746	1533	1380	1267	1185
3000	S	1011	822	699	614	552	507	-
	U	2194	1779	1508	1320	1183	1082	-

Wind Ratings (Pa) self-mating mullion 81025.

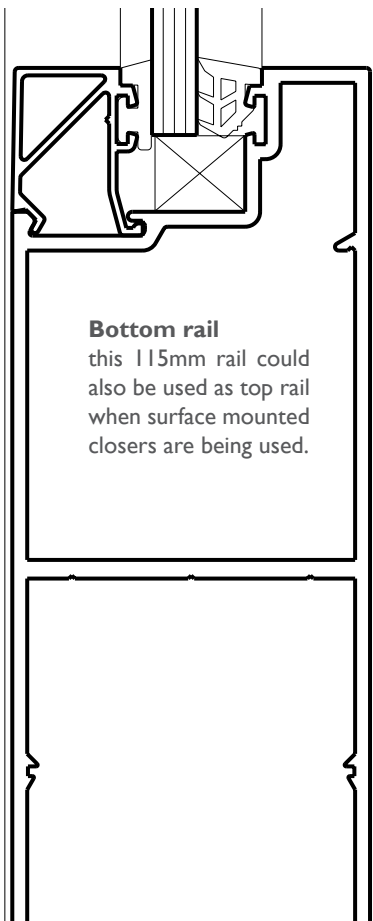
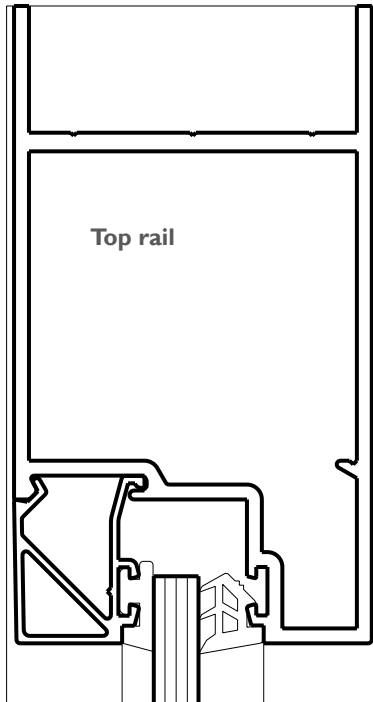
Height mm	Mullion centres mm							
	800	1000	1200	1400	1600	1800	2000	
2200	S	3333	3333	3333	3091	2857	2707	2623
	U	5000	5000	5000	4830	4439	4183	4037
2400	S	3333	3021	2599	2315	2120	1986	1898
	U	5000	5000	4468	3960	3606	3361	3198
2600	S	2876	2351	2013	1782	1620	1505	1424
	U	5000	4405	3757	3312	2996	2769	2609
2800	S	2290	1867	1592	1403	1268	1170	1099
	U	4640	3772	3206	2814	2533	2327	2176
3000	S	1854	1508	1282	1125	1013	930	868
	U	4028	3267	2769	2423	2172	1986	1846
3200	S	1522	1235	1048	917	822	752	699
	U	3530	2858	2417	2109	1885	1717	1589
3400	S	1266	1025	868	758	678	617	571
	U	3119	2522	2129	1854	1653	1501	1384
3600	S	1064	860	727	634	565	513	-
	U	2776	2242	1891	1643	1462	1324	-
3800	S	902	729	615	535	-	-	-
	U	2488	2007	1690	1467	-	-	-
4000	S	772	624	525	-	-	-	-
	U	2242	1807	1520	-	-	-	-

Wind Ratings (Pa) self-mating mullion 81026.

Series 400 CentreGLAZE™ Framing

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SCALE: FULL SIZE & NTS

DOOR OPTION - SERIES 50



Series 50 Door

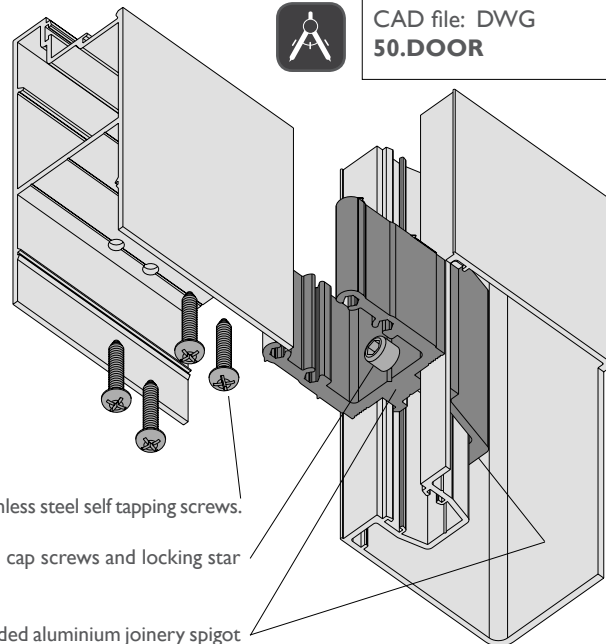
- 50mm thick doors are significantly stronger than the usual 44mm thick doors. 50mm thick doors are ideal for larger than standard doors. Refer Pascal rating table shown on page 1.69.
- Series 50 doors have removable snap-on glazing beads on horizontal rails and wraparound vertical stiles as shown on these pages.
- Stile to rail joint is securely fixed with custom heavy duty spigot/tapping plate assembly as shown below.
- Door glass can be blocked with custom stile glazing block and adjustable setting block.
- Series 50 door will accept glass up to 10.50mm thick.
- Horizontal rails can be fitted with square or splayed glazing beads as shown on following page.
- 19mm high glazing beads ensure that the glass gets the right bite.
- Can be security glazed with captive external glazing wedge.
- Four midrail options: 50mm, 115mm, 125mm and 200mm deep.
- Lock stile wide enough to accept most lock types.
- Rebated French meeting stiles and wide stile options available.

Maximum Recommended Series 50 Door Panel Sizes

Hinge quantity	3 hinges - height less than or equal to 2200mm
	4 hinges - height greater than to 2200mm.
Maximum weight	with 3 hinges 30 kg
	with 4 hinges 50 kg
Maximum panel width	1000mm
Maximum panel height	3000mm (subject to wind load)



CAD file: DWG
50.DOOR



10# pan head stainless steel self tapping screws.

M6 stainless steel cap screws and locking star washers.

Heavy duty extruded aluminium joinery spigot and tapping plate.

Door stile cut away to show the tapping plate.

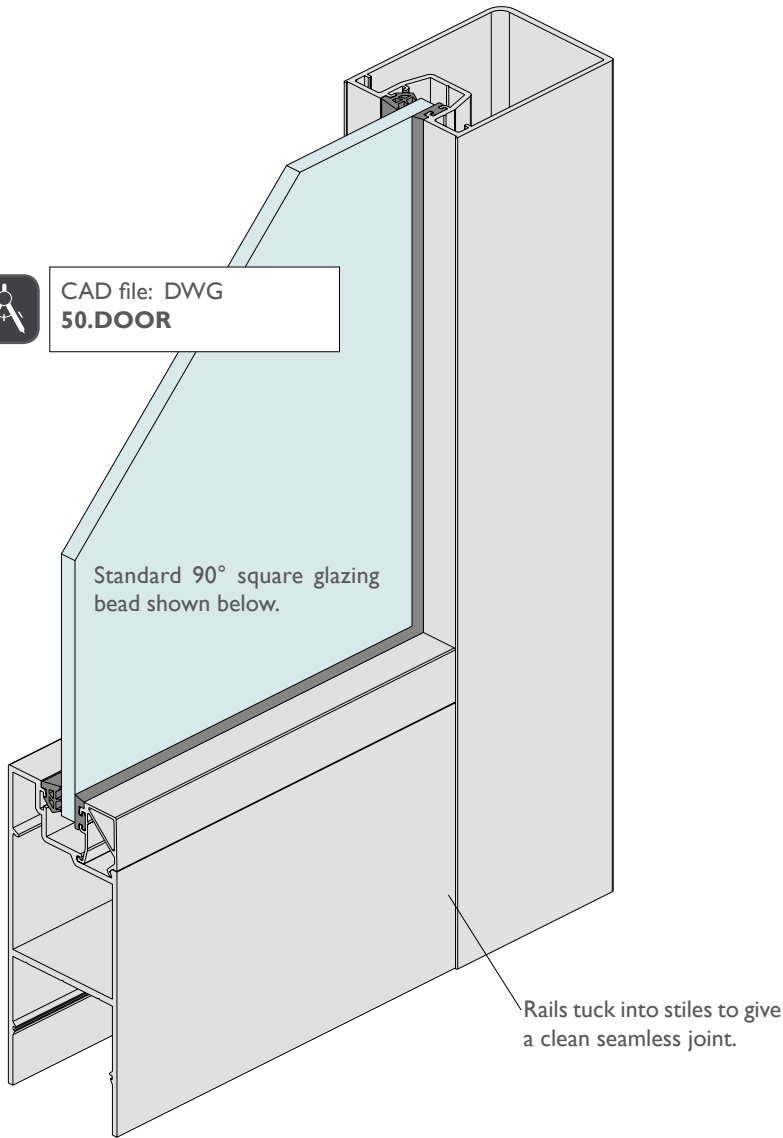
Series 400 CentreGLAZE™ Framing

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REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

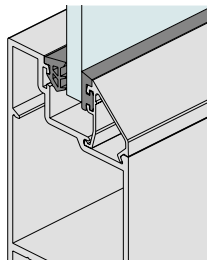
DOOR OPTION - SERIES 50



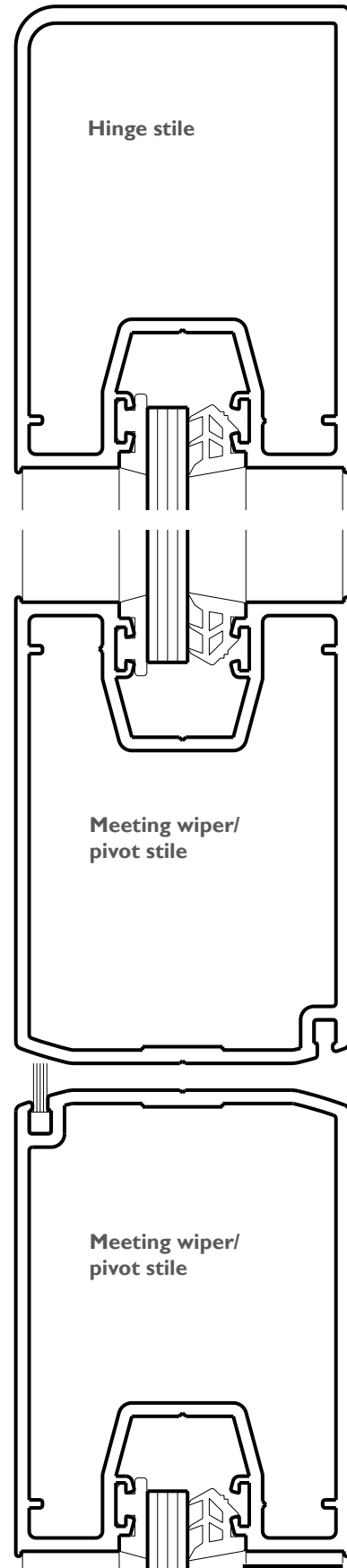
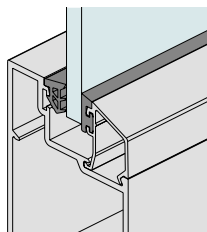
CAD file: DWG
50.DOOR



Alternative 45° splayed glazing bead.



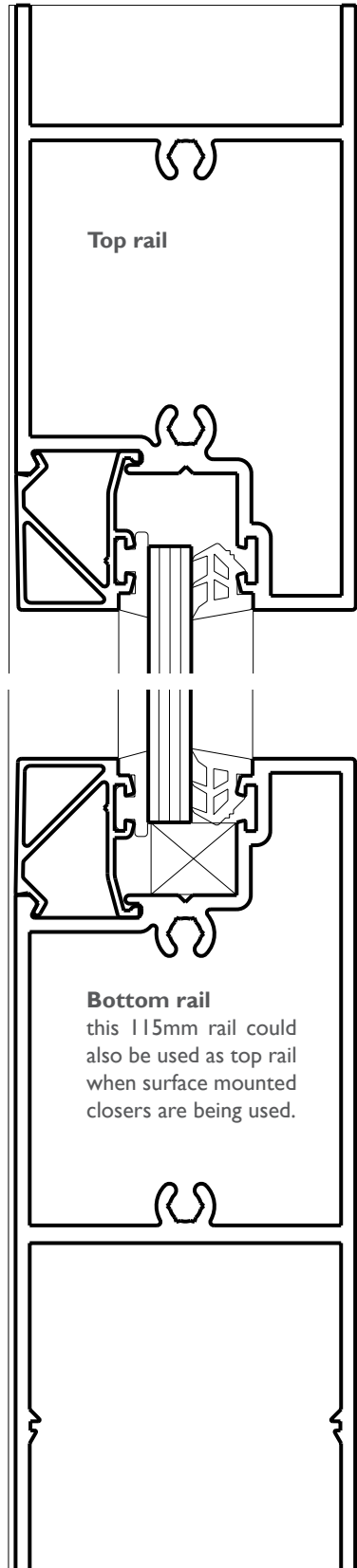
Alternative 25° splayed glazing bead.



Series 400 CentreGLAZE™ Framing

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SCALE: FULL SIZE & NTS

DOOR OPTION - SERIES 51



Series 51 Door

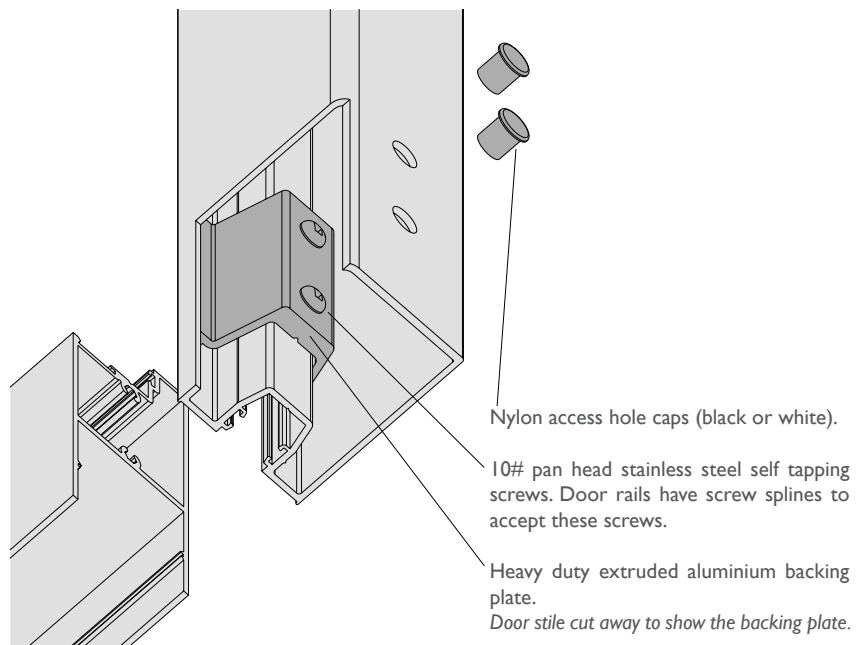
- Another 50mm thick door design.
- Series 51 doors have removable snap-on glazing beads on horizontal rails and wraparound vertical stiles as shown on these pages.
- Stiles are screwed to rails as shown on this page using 10# pan head stainless steel self tapping spline screws and custom aluminium backing plate as shown below.
- Door glass can be blocked with custom stile glazing block and adjustable setting block as shown later in these notes.
- Series 51 door will accept glass up to 10.50mm thick.
- Horizontal rails can be fitted with square or splayed glazing beads as shown on following page.
- 19mm high glazing beads ensure that the glass gets the right bite.
- Can be security glazed with captive external glazing wedge.
- Four midrail options: 50mm, 115mm, 125mm and 200mm deep.
- Lock stile wide enough to accept most lock types.
- Rebated French meeting stiles and wide stile options available.

Maximum Recommended Series 51 Door Panel Sizes

Hinge quantity	3 hinges - height less than or equal to 2200mm
	4 hinges - height greater than to 2200mm.
Maximum weight	with 3 hinges 30kg
	with 4 hinges 50kg
Maximum panel width	900mm
Maximum panel height	2400mm (subject to wind load)



CAD file: DWG
51.DOOR



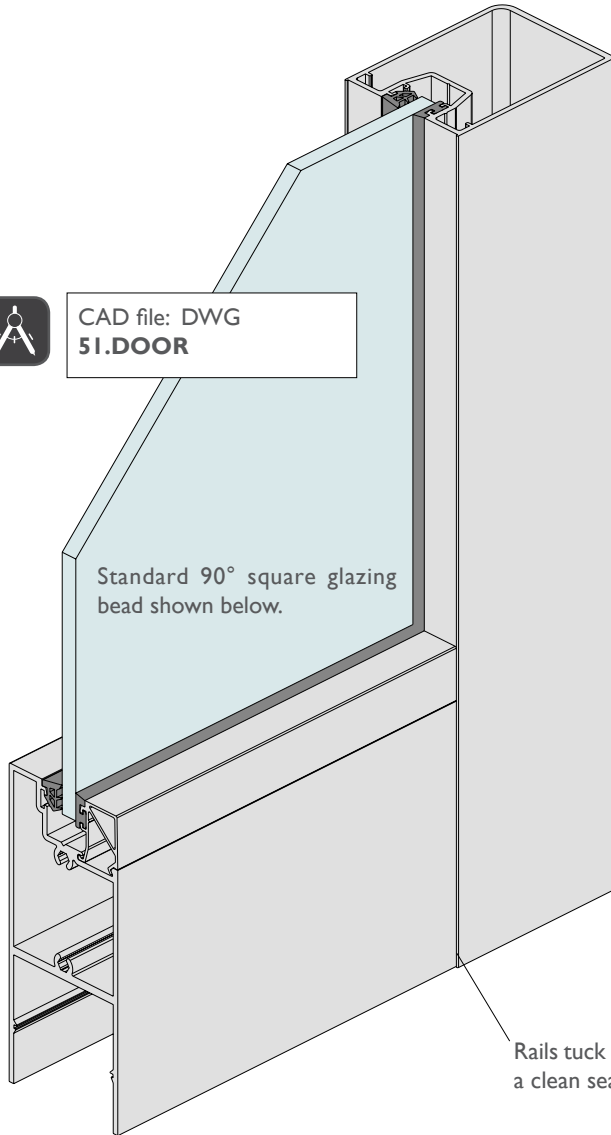
Series 400 CentreGLAZE™ Framing

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REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

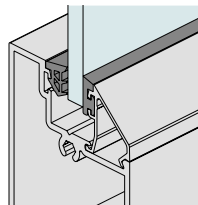
DOOR OPTION - SERIES 51



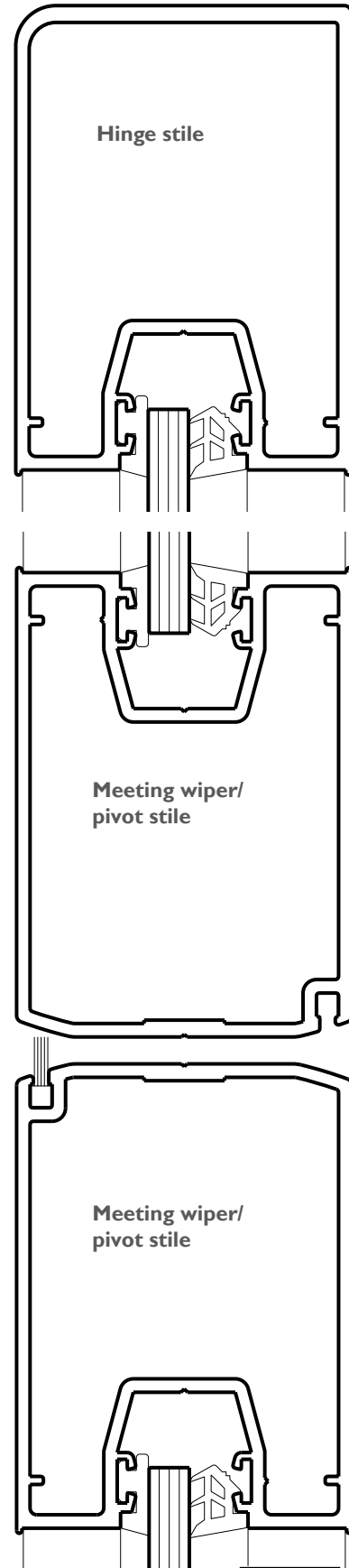
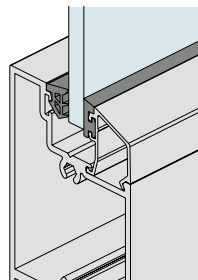
CAD file: DWG
51.DOOR



Alternative 45° splayed glazing bead.



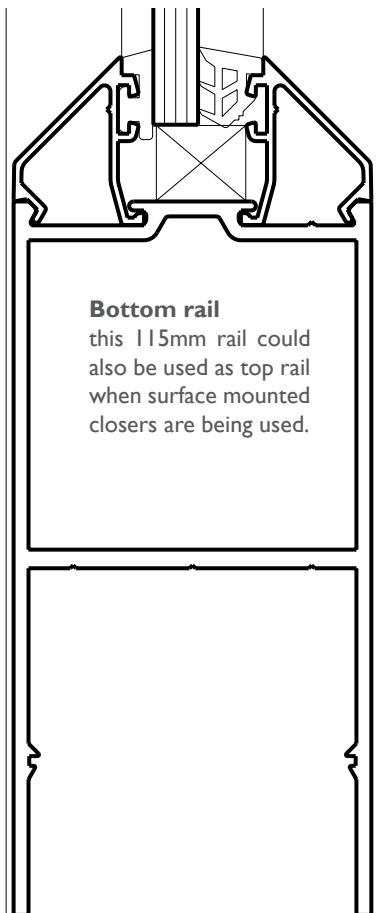
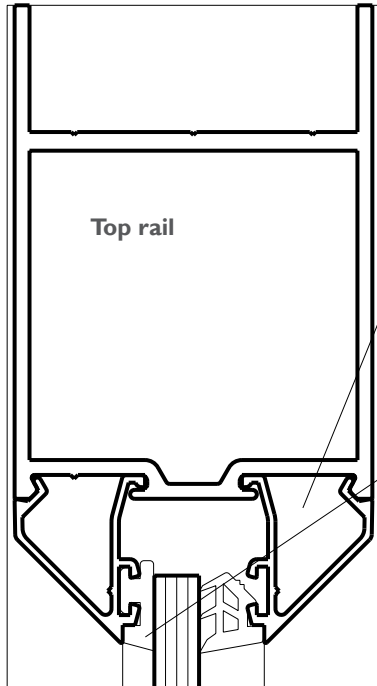
Alternative 25° splayed glazing bead.



Series 400 CentreGLAZE™ Framing

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 SCALE: FULL SIZE & NTS

DOOR OPTION - SERIES 52



Bottom rail
 this 115mm rail could also be used as top rail when surface mounted closers are being used.

Series 52 Door

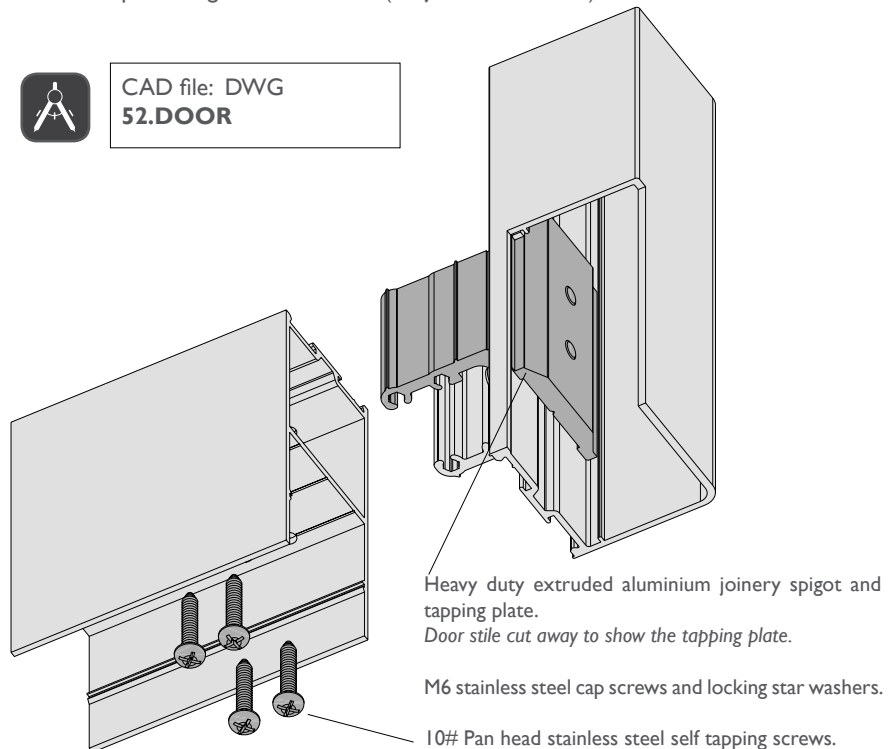
- Another 50mm thick door, but now fully beaded.
- Series 52 doors have removable snap-on glazing beads on horizontal rails and vertical stiles (both sides) as shown on these pages.
- Stile to rail joint is securely fixed with custom spigot assembly as shown below.
- Door glass can be blocked and fitted with adjustable setting block.
- Series 52 door will accept glass up to 34mm thick.
- Horizontal rails can be fitted with square or splayed glazing beads as shown on following page.
- 19mm high glazing beads ensure that the glass gets the right bite.
- Can be security glazed with captive external glazing wedge.
- Four midrail options: 50mm and 115mm deep (suit glass up to 10.50mm thick) and 125mm and 200mm midrails that accept glass up to 34mm thick.
- Lock stile wide enough to accept most lock types.
- Rebated French meeting stiles and wide stile options available.

Maximum Recommended Series 52 Door Panel Sizes

Hinge quantity	3 hinges - height less than or equal to 2200mm
	4 hinges - height greater than to 2200mm.
Maximum weight	with 3 hinges 30kg
	with 4 hinges 50kg
Maximum panel width	1000mm
Maximum panel height	3000mm (subject to wind load)



CAD file: DWG
52.DOOR



Heavy duty extruded aluminium joinery spigot and tapping plate.
 Door stile cut away to show the tapping plate.

M6 stainless steel cap screws and locking star washers.

10# Pan head stainless steel self tapping screws.

Series 400 CentreGLAZE™ Framing

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SCALE: FULL SIZE & NTS

DOOR OPTION - SERIES 52

Standard 45° splayed glazing beads on the horizontals and 90° square beads on the verticals.

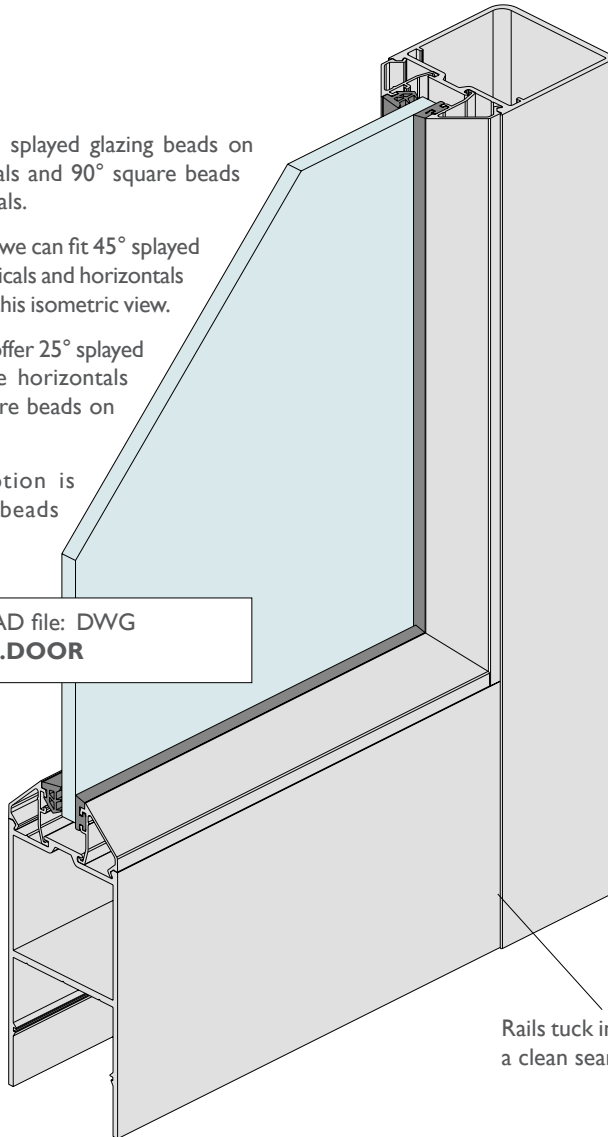
Alternatively we can fit 45° splayed beads on verticals and horizontals as shown on this isometric view.

We can also offer 25° splayed beads on the horizontals and 90° square beads on the verticals.

Another option is 90° square beads all round.

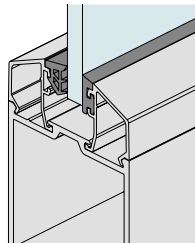


CAD file: DWG
52.DOOR

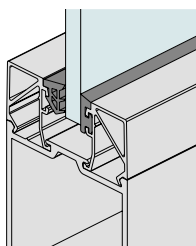


Rails tuck into stiles to give a clean seamless joint.

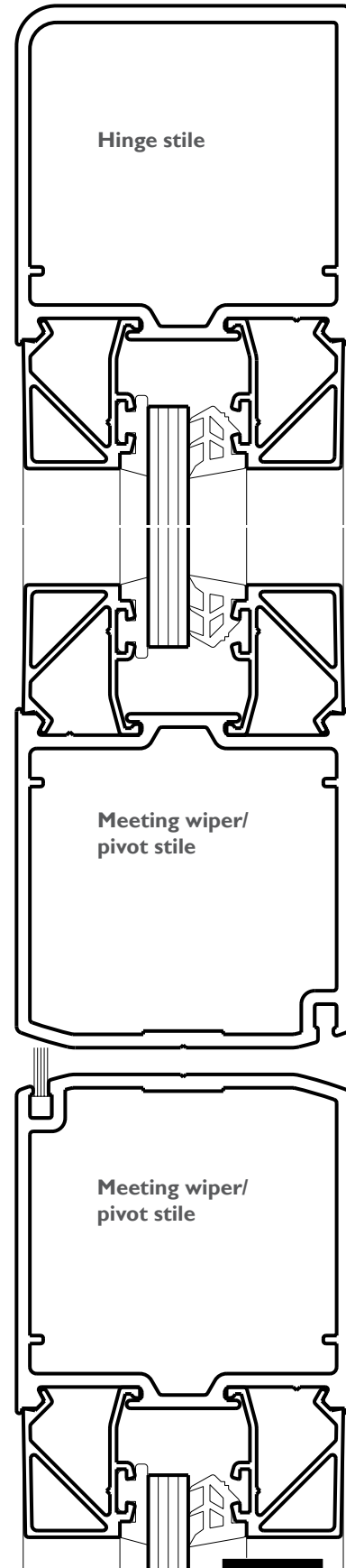
Alternative 25° splayed glazing bead on horizontals with 90° square beads vertically.



Alternative 90° square glazing bead on all sides.



Other glazing bead options are shown on the following page.

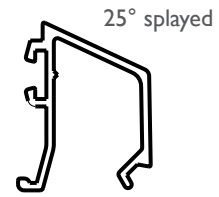
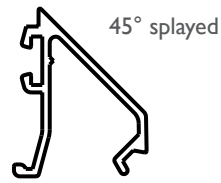
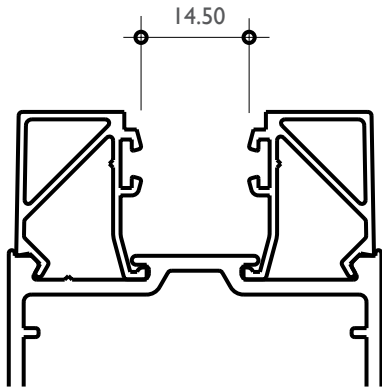


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SCALE: FULL SIZE

SERIES 52 BEAD OPTIONS

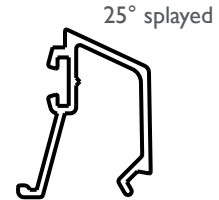
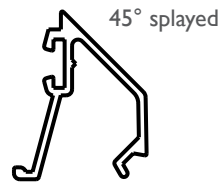
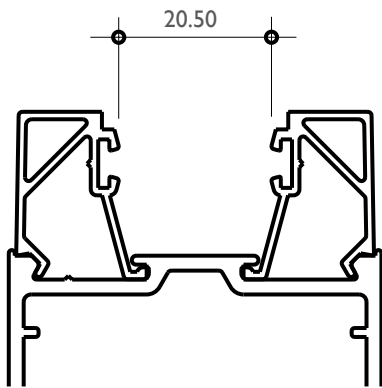
Series 52 doors and the double glazed fixed adaptor have numerous glazing bead options as shown below:



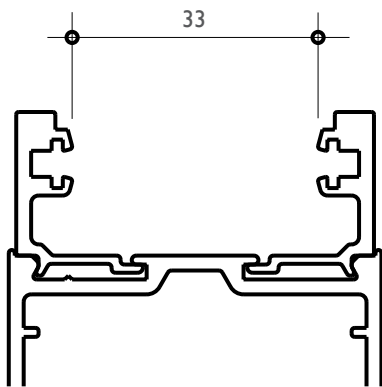
Standard glazing rebate matches shopfront framing. Suitable for glass up to 10.50mm thick. The 25° splayed bead matches the external sill/transom splay in Series 406 and 606 FrontGLAZE™ framing.



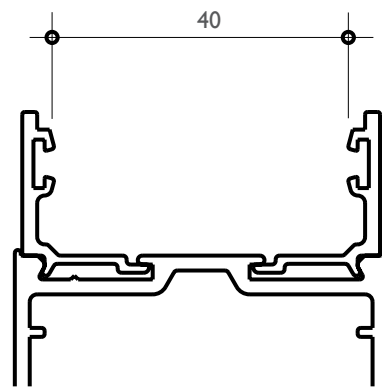
CAD file: DWG
52.DOOR.1



These beads are from Series 406 FrontGLAZE™ framing. They will snap into Series 52 doors to give a 6mm wider glazing pocket. This wider glazing pocket suits thick glass e.g. 12.38mm and 13.52mm.



Pressure bead to suit 24mm thick IGUs.



Pressure bead to suit 34mm thick IGUs.

Series 400 CentreGLAZE™ Framing

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SCALE: HALF FULL SIZE

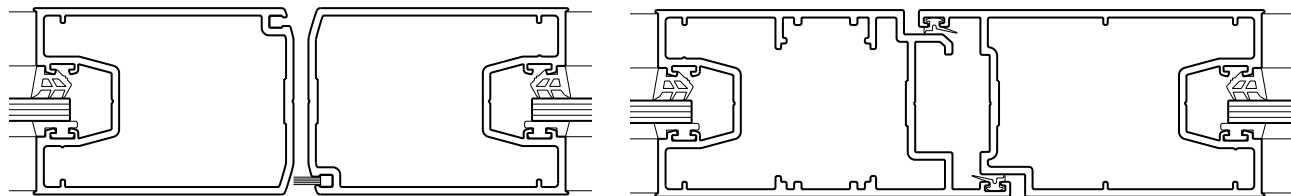
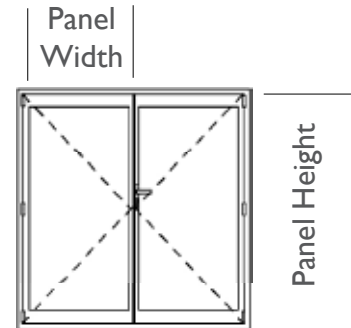
DOOR STRENGTH

Don't ignore the strength of the door meeting stiles.

- 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.

Serviceability rating has been limited to 3333 Pa and
Ultimate strength rating has been limited to 5000 Pa.



Pivot/wiper meeting stiles
(Series 50/51 illustrated)

Rebated French meeting stiles
(Series 50/51 illustrated)

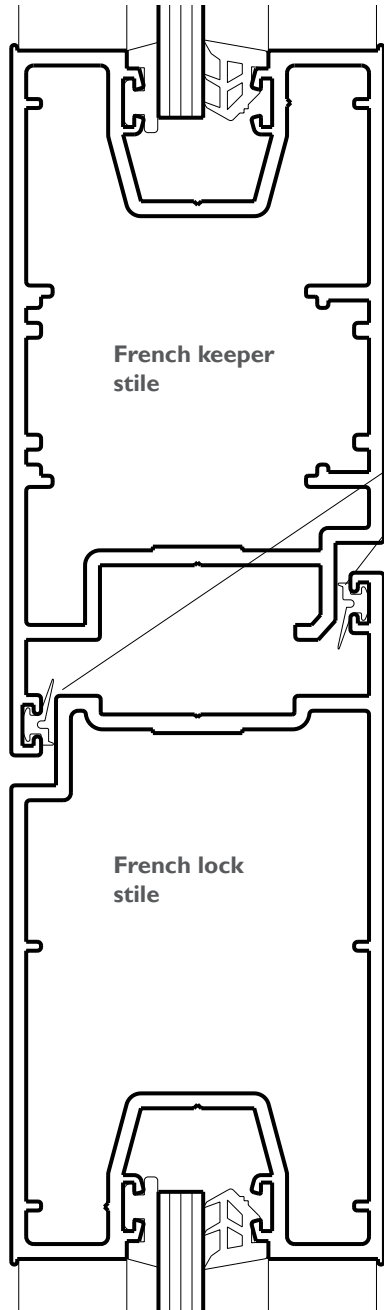
Pivot Door Meeting Stile Strength Guide				Ratings - Rebated French meeting stiles					
Panel Height mm	Panel Width mm	Ratings - Pivot meeting stiles		Ratings - Rebated French meeting stiles		Ratings - Rebated French meeting stiles			
		Series 50 & 51 S	Series 50 & 51 U	Series 52 S	Series 52 U	Series 50 & 51 S	Series 50 & 51 U	Series 52 S	Series 52 U
2100	700	1395	4492	1070	3431	1741	5000	1416	4310
2100	800	1238	3978	950	3038	1545	4764	1256	3816
2100	900	1118	3584	858	2737	1395	4293	1135	3439
2100	1000	1025	3276	786	2502	1278	3923	1040	3143
2400	700	925	3409	710	2603	1154	4083	939	3270
2400	800	818	3009	627	2298	1020	3604	830	2887
2400	900	736	2703	565	2064	918	3237	747	2593
2400	1000	671	2461	515	1879	838	2947	681	2361
2600	700	724	2892	555	2209	903	3464	734	2775
2600	800	639	2550	-	-	797	3054	648	2446
2600	900	574	2286	-	-	716	2738	582	2193
2600	1000	523	2078	-	-	652	2489	530	1994
2800	700	577	2485	-	-	720	2976	586	2384
2800	800	509	2189	-	-	635	2621	516	2100
2800	900	-	-	-	-	569	2348	-	-
2800	1000	-	-	-	-	518	2131	-	-
3000	700	-	-	-	-	583	2586	-	-
3000	800	-	-	-	-	514	2275	-	-
3000	900	-	-	-	-	-	-	-	-
3000	1000	-	-	-	-	-	-	-	-

Wind Ratings (Pa) Hinged/Pivot door meeting stiles.

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SCALE: FULL SIZE & NTS

ALTERNATIVE DOOR STILES - FRENCH REBATE



Rebated French Meeting Stiles - Series 50 and Series 51

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

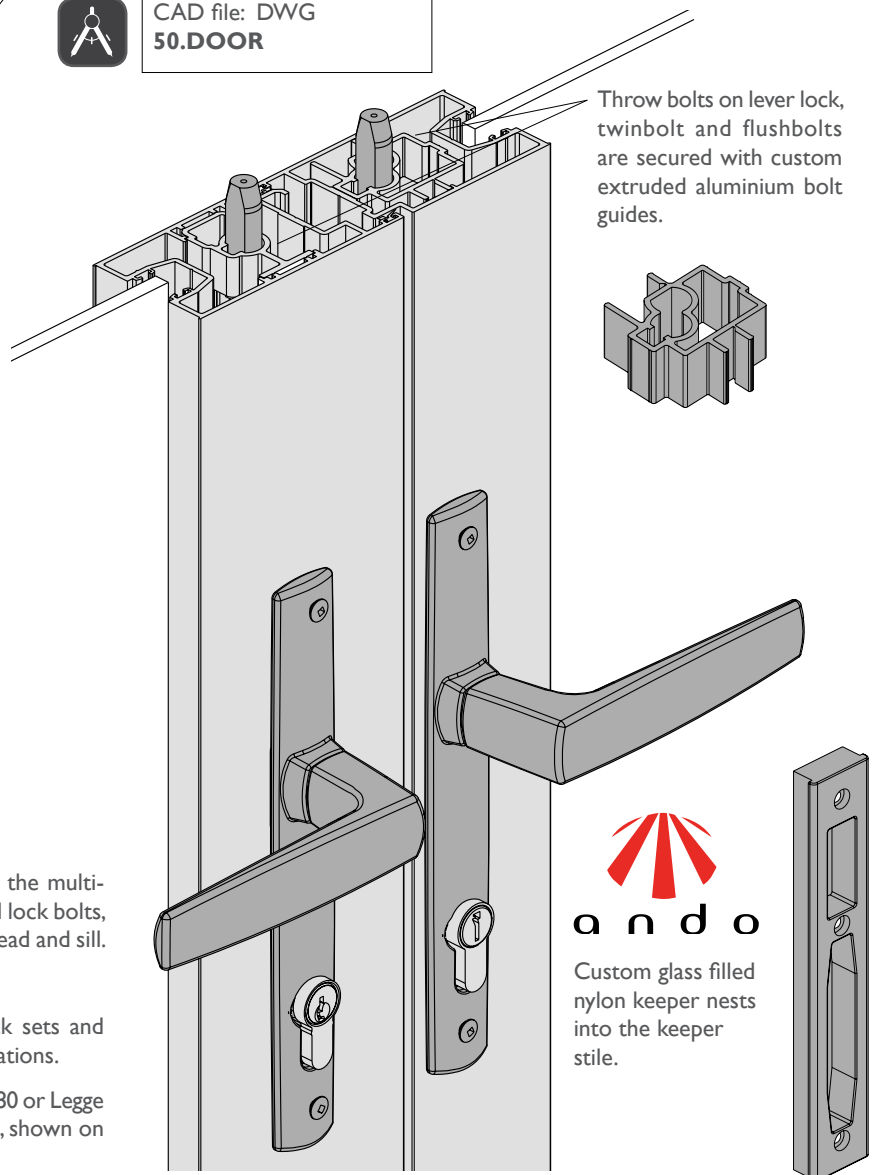
These French meeting stiles have been designed to accept a variety of AWS custom locks and furniture (ANDO™, MIRO™ or ICON™), ANDO™ furniture illustrated on this page.

Lock stile will also accept Lockwood 3580 and Legge 995MF locks with AWS 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
50.DOOR



The ANDO™ lever lock shown highlights the multi-point option where in addition to the central lock bolts, there are shoot bolts that are thrown into head and sill.

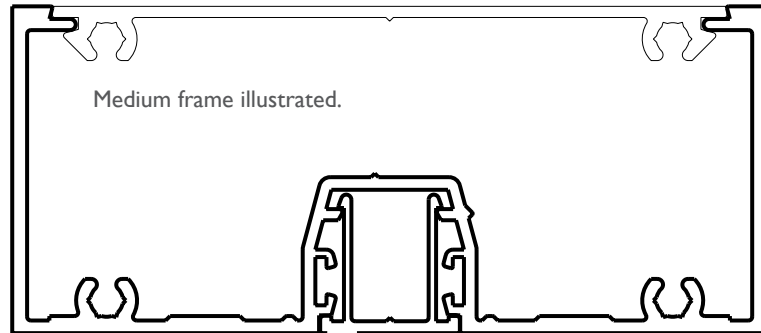
Note:
ANDO™, MIRO™ and ICON™ lever lock sets and twinbolts are designed for residential applications.

For high traffic applications use Lockwood 3580 or Legge 995MF locks and finger operated flush bolts, shown on page I.127.

Series 400 CentreGLAZE™ Framing

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SCALE: FULL SIZE

ALTERNATIVE DOOR STILES - WIDE



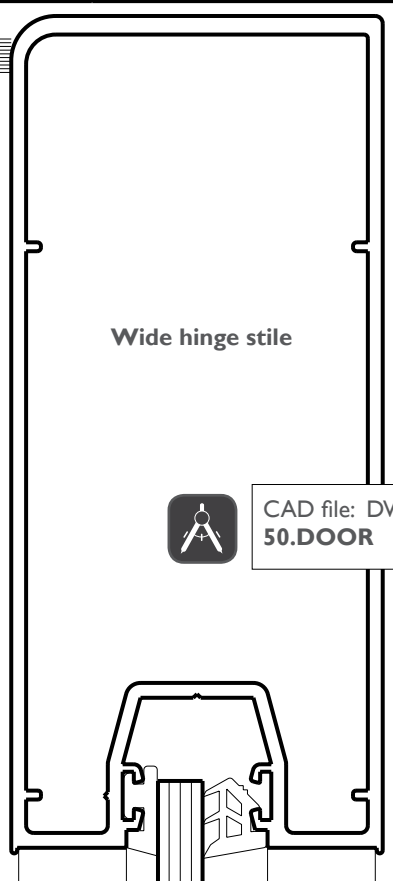
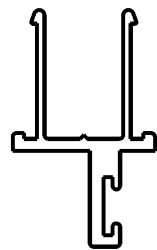
Weatherpile door seal.

The gap between door and frame varies depending on the hinge type used:

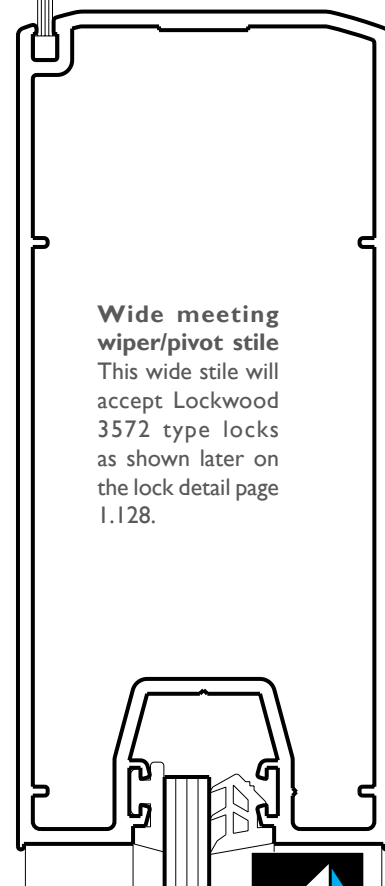
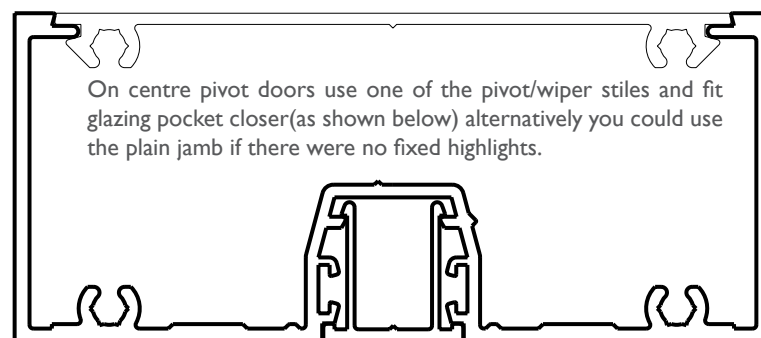
- 2mm recessed alum. butt hinges
- 4mm aluminium fast fix hinges
- 3mm stainless steel fast fix hinges

The extruded aluminium door stop shown above suits the standard 50mm thick doors.

We also offer a 40mm door stop to suit timber doors as shown below.



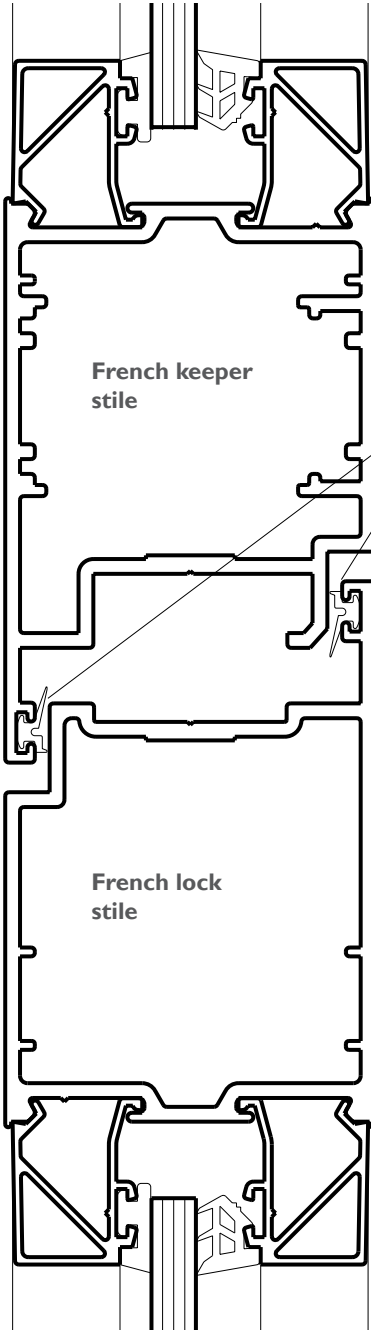
CAD file: DWG
50.DOOR



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ALTERNATIVE DOOR STILES - FRENCH REBATE



Rebated French Meeting Stiles - Series 52

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

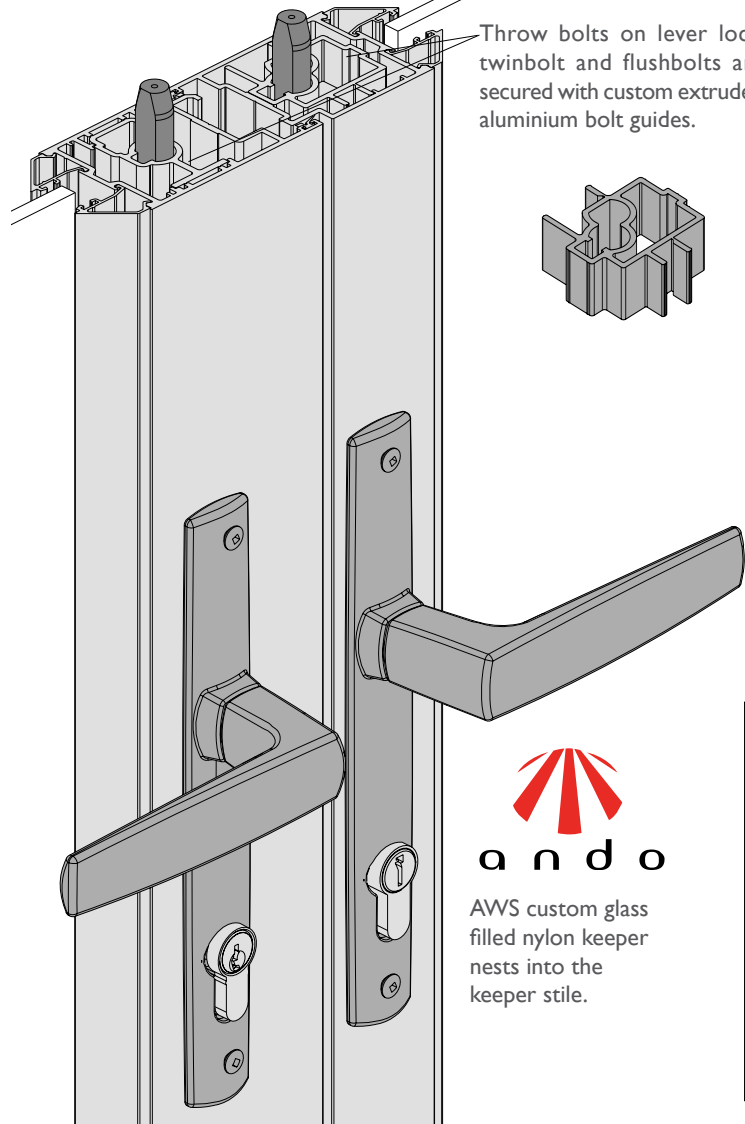
These French meeting stiles have been designed to accept a variety of AWS custom locks and furniture (ANDO™, MIRO™ or ICON™), ANDO™ furniture illustrated on this page.

Lock stile will also accept Lockwood 3580 and Legge 995MF locks with AWS 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
52.DOOR



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

Note:

ANDO™, MIRO™ and ICON™ 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 on page I.127.

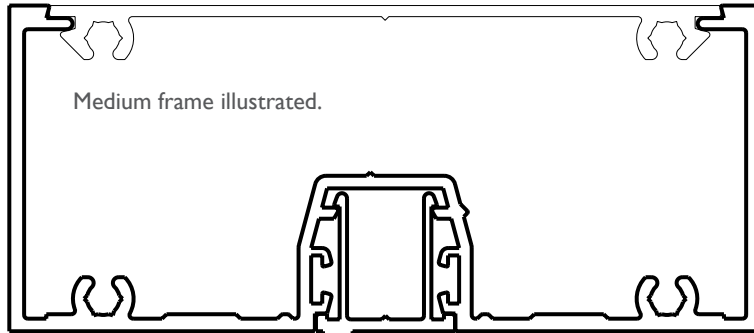


AWS custom glass filled nylon keeper nests into the keeper stile.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

ALTERNATIVE DOOR STILES - WIDE



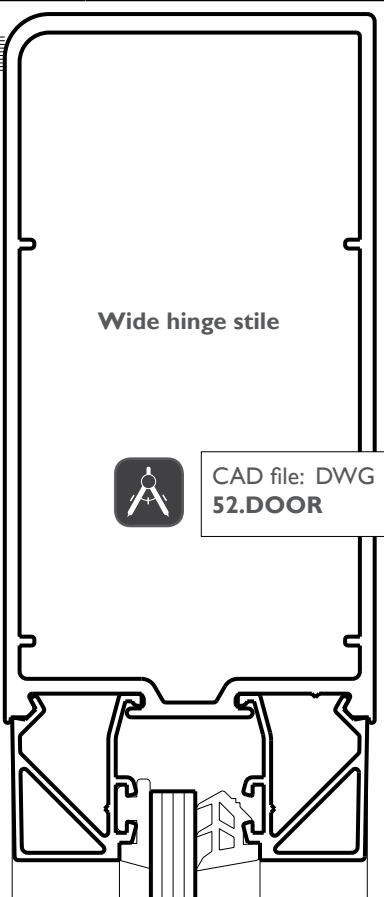
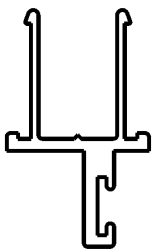
Weatherpile door seal.

The gap between door and frame varies depending on the hinge type used:

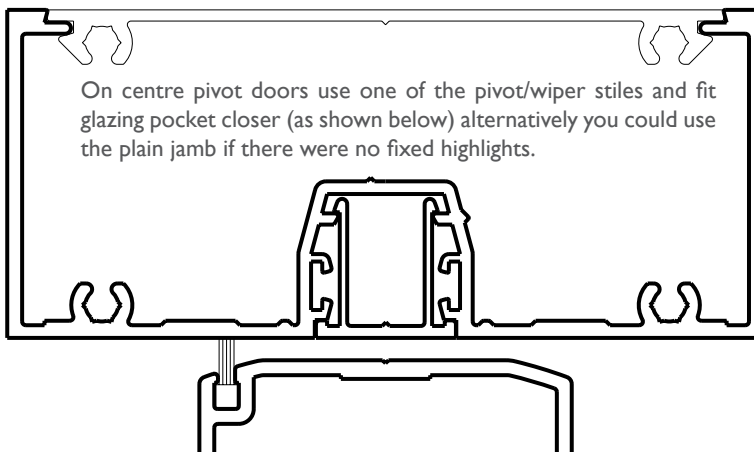
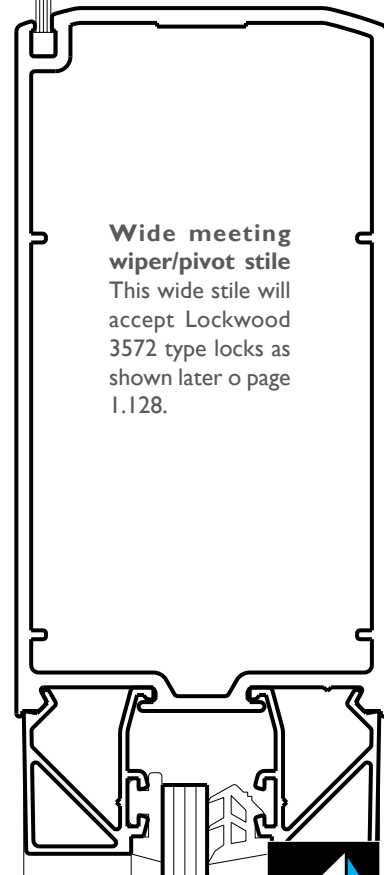
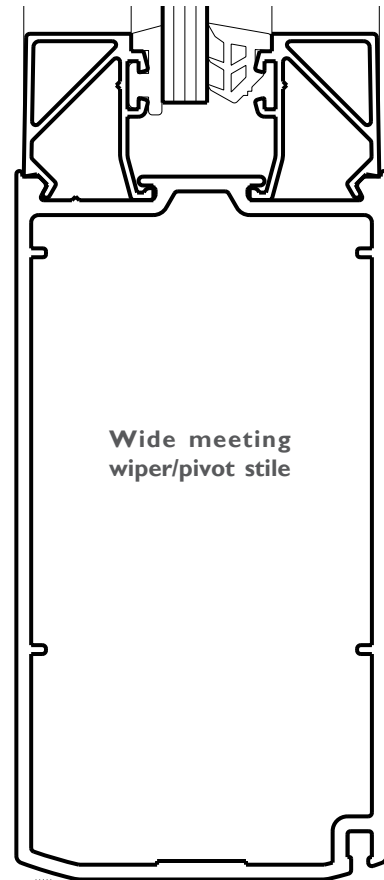
- 2mm recessed alum. butt hinges
- 4mm aluminium fast fix hinges
- 3mm stainless steel fast fix hinges

The extruded aluminium door stop shown above suits the standard 50mm thick doors.

We also offer a 40mm door stop to suit timber doors as shown below.



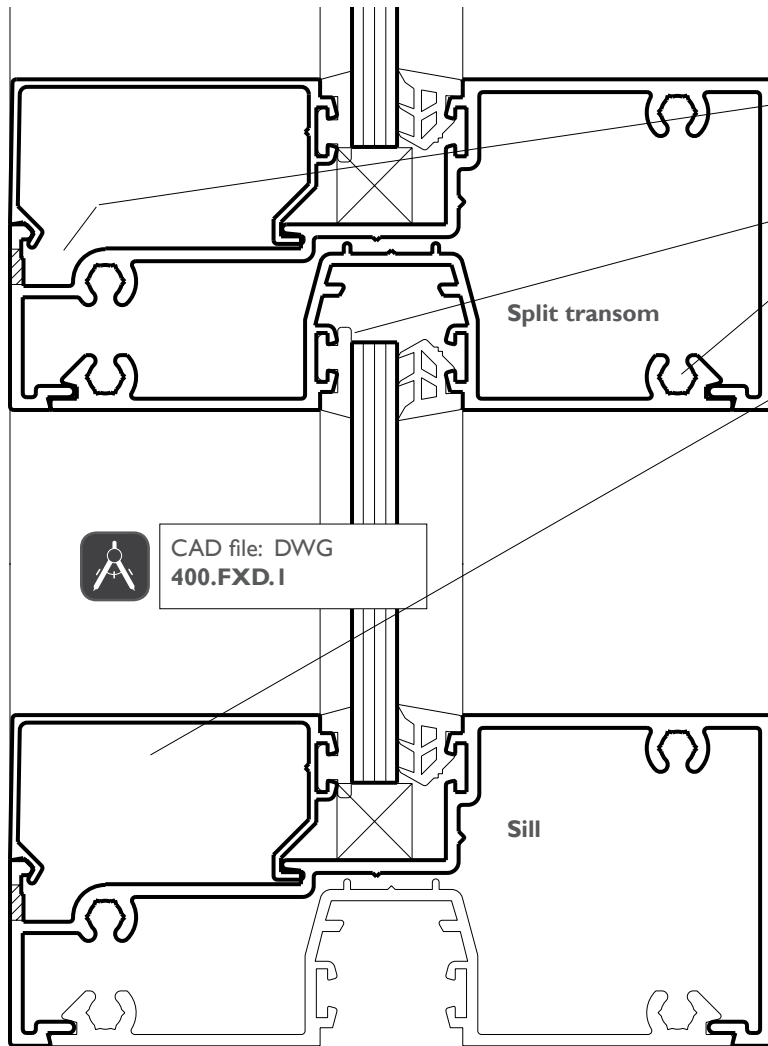
CAD file: DWG
52.DOOR



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

LIGHT SILL/TRANSOM



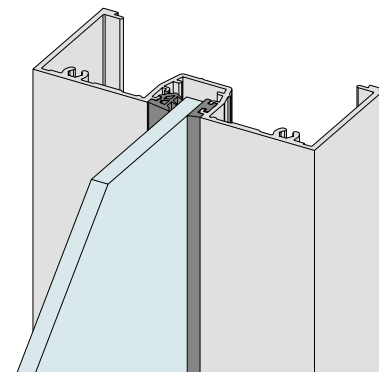
Glazing pocket drained out of the glazing area into sill/transom sump then out of the system via drainage holes.

Security glazing option illustrated.

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

Square glazing bead illustrated.

Open back light sill/transom illustrated. Medium sill/transom similar with a heavier wall thickness.



Weather Performance:

We always recommend sub-sills under commercial framing.

Details on sub-sill shown later in these notes.

Standard glazing pocket will accept glass up to 10.50mm thick.

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

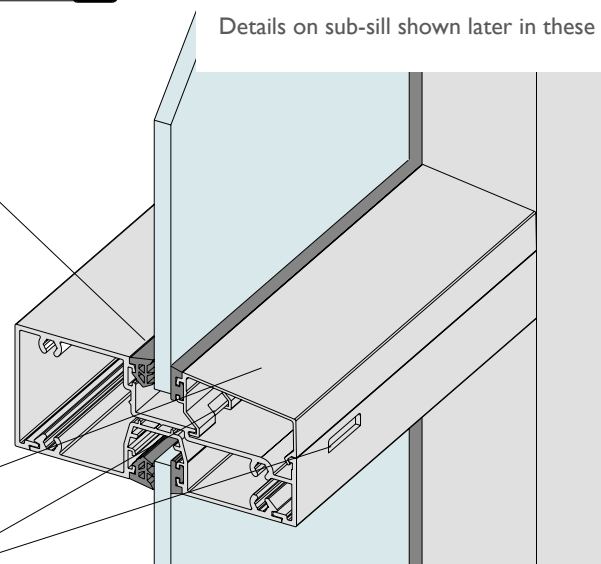
Glazing can be:

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

Standard square glazing bead shown on full size detail above.

Alternative splayed bead shown on following page and the isometric detail right.

Drainage holes allow water out of the glazing pocket area.



Series 400 CentreGLAZE™ Framing

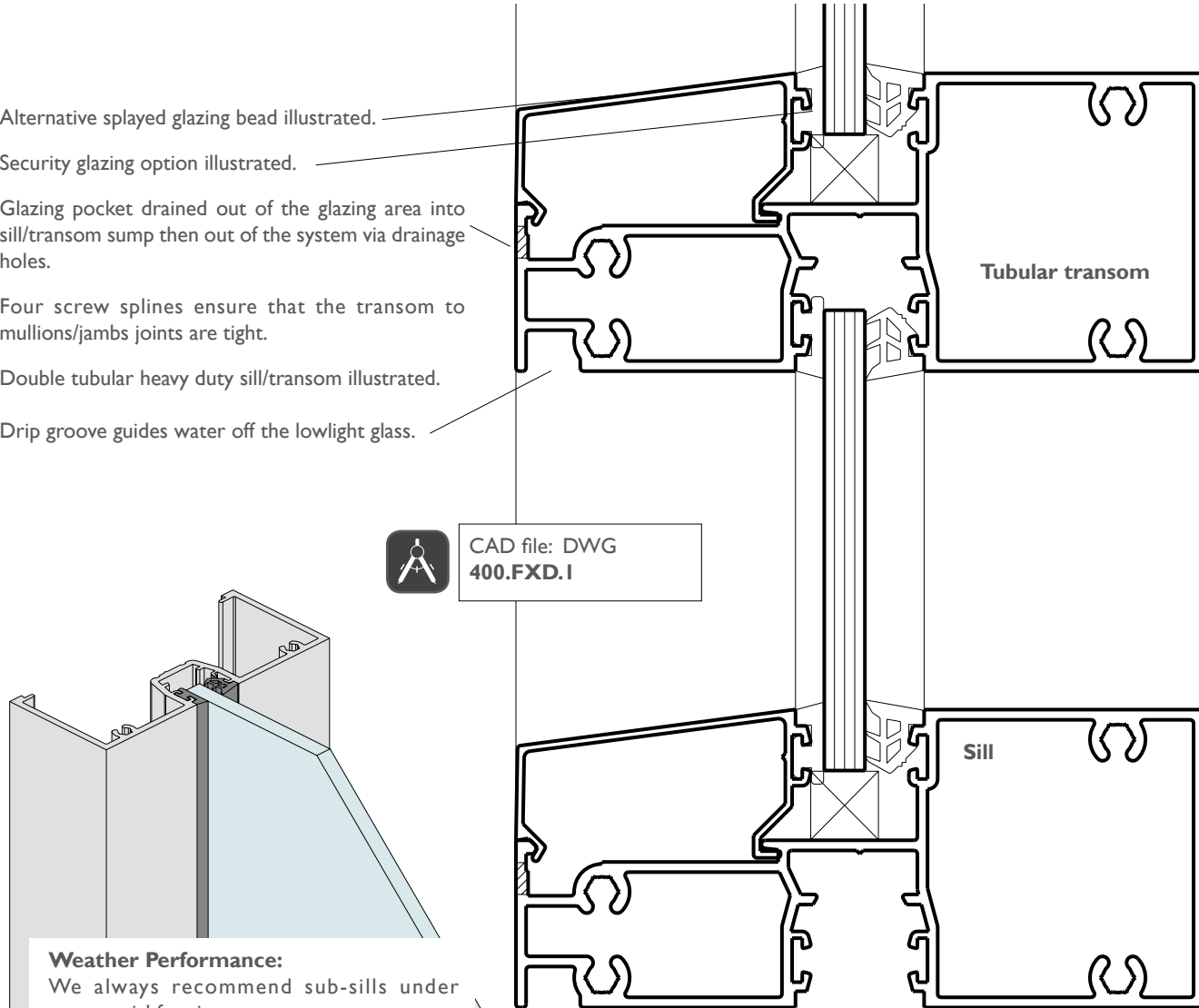
DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

HEAVY DUTY TUBULAR SILL/TRANSOM

- Alternative splayed glazing bead illustrated.
- Security glazing option illustrated.
- Glazing pocket drained out of the glazing area into sill/transom sump then out of the system via drainage holes.
- Four screw splines ensure that the transom to mullions/jamb's joints are tight.
- Double tubular heavy duty sill/transom illustrated.
- Drip groove guides water off the lowlight glass.

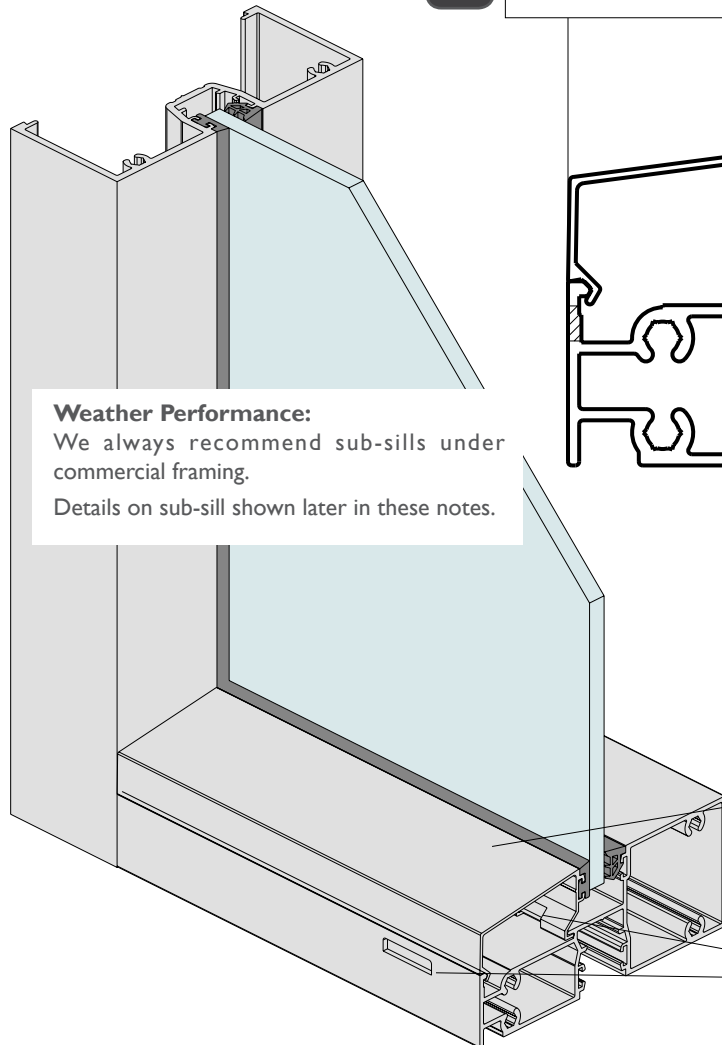


CAD file: DWG
400.FXD.I



Weather Performance:

We always recommend sub-sills under commercial framing.
Details on sub-sill shown later in these notes.



The double tubular transom is significantly stronger when carrying the glass dead load, refer dead load graph.

The heavy duty jamb option is shown on the isometric illustration left.

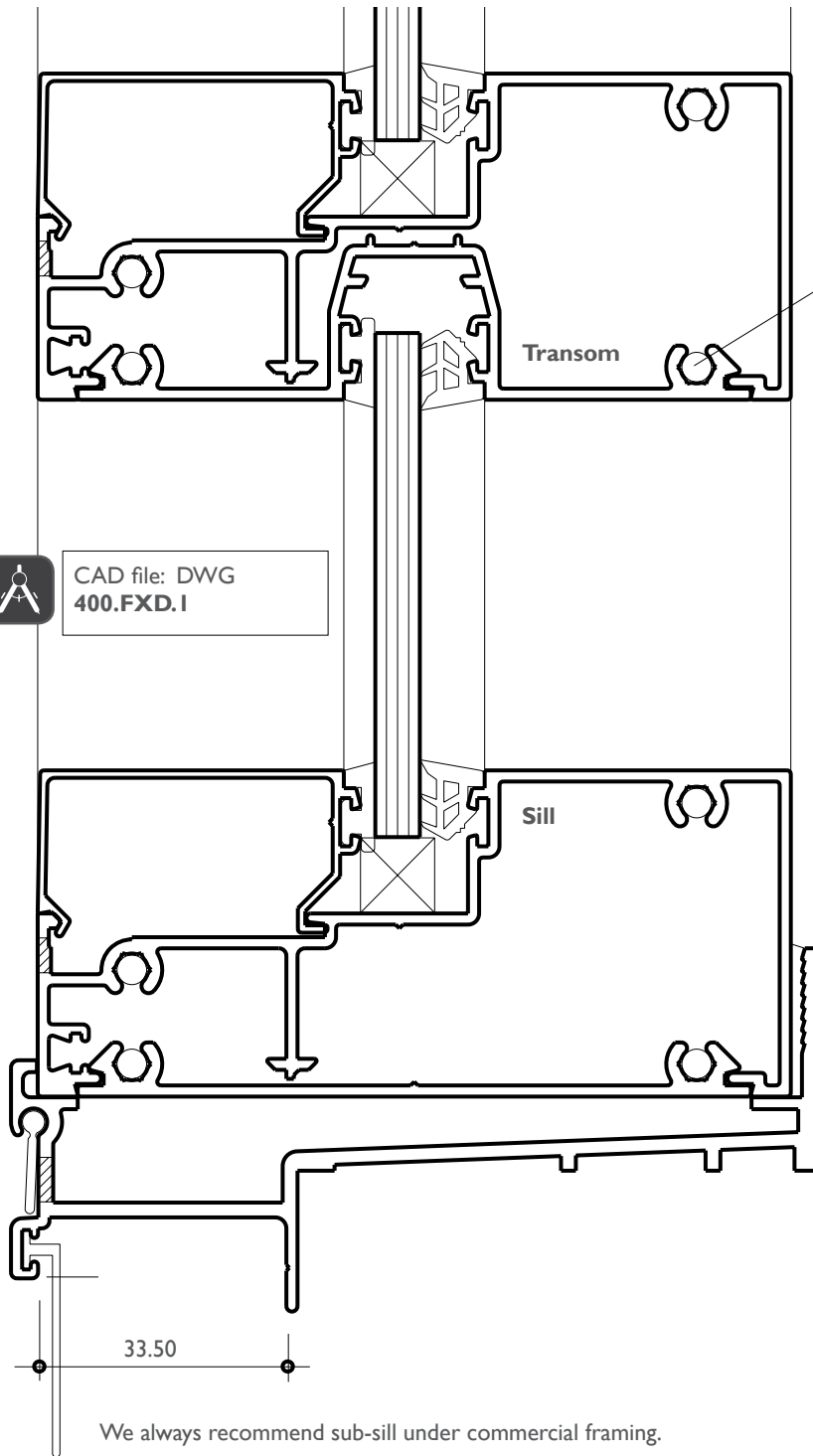
The splayed alternative glazing bead illustrated guides water and dust off the frame. Ideal for seaside areas where frames will be subjected to salt build-up. If you don't remove salt build-ups from the frame the paint/anodising finish will be damaged.

Drainage holes allow water out of the glazing pocket area.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

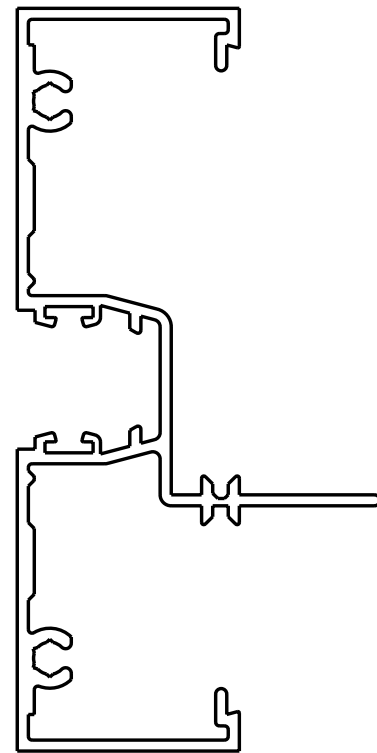
NAILING FIN SILL/TRANSOM



This framing version is designed for residential applications. Nailing fin will accept building-in lug. Timber reveals can be fitted to frame and captive flexible sill flap closes off sill to brick gap.

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/jambes.



We offer two open back frames with integrated nailing fin:

- 30mm illustrated above.
- 44mm

We always recommend sub-sill under commercial framing.

When you use nailing fin framing we also offer a nailing fin sub-sill as shown above.

Nailing fin framing and sub-sill are ideal for residential brick veneer or cavity brick installations.



CAD file: DWG
400.FXD.3

Series 400 CentreGLAZE™ Framing

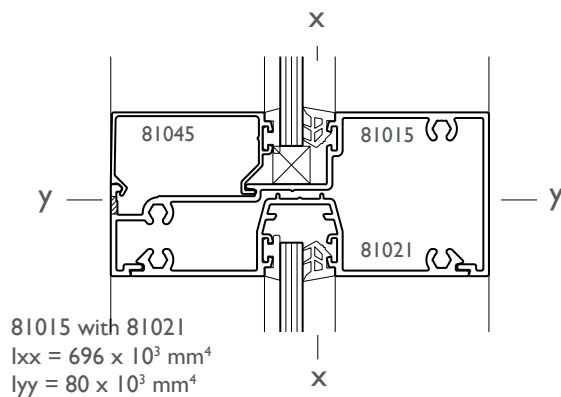
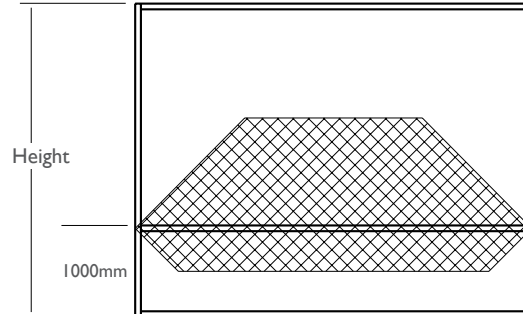
DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE

TRANSOM STRENGTH

S = Serviceability limit state (deflection = L/250).
U = Ultimate strength limit state (factored yield strength = 104 MPa).

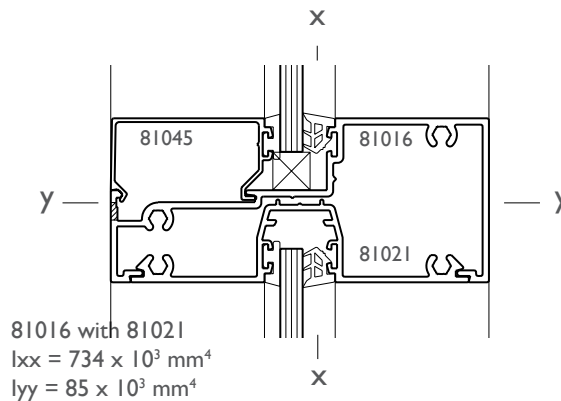
These tables have been calculated using nominal section properties.
A typical assembly has been tested as per the requirements of AS 2047.

Serviceability rating has been limited to 3333 Pa and
Ultimate strength rating has been limited to 5000 Pa.



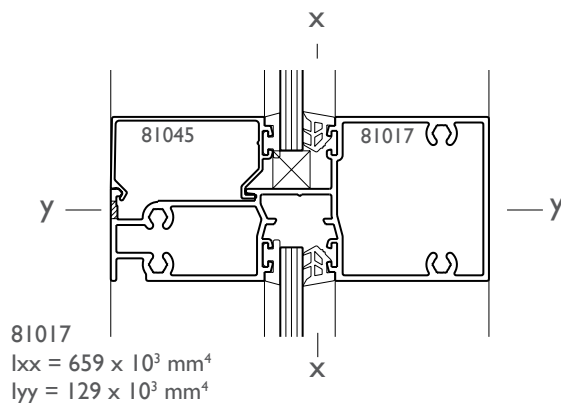
Height mm	Mullion centres mm							
	1800	2000	2200	2400	2600	2800	3000	
1800	S	2623	2087	1652	1258	981	780	630
	U	3935	3131	2554	2125	1797	1541	1336
2000	S	2404	1906	1508	1145	891	708	572
	U	3606	2859	2326	1932	1631	1396	1210
2200	S	2248	1771	1399	1059	822	652	525
	U	3371	2657	2153	1782	1501	1283	1110
2400	S	2141	1673	1319	994	769	607	-
	U	3212	2510	2022	1667	1400	1193	-
2600	S	2078	1606	1260	944	727	573	-
	U	3117	2409	1926	1579	1320	1122	-

Wind Ratings (Pa) transom 81015 and filler 81021.



Height mm	Mullion centres mm							
	1800	2000	2200	2400	2600	2800	3000	
1800	S	2744	2183	1742	1327	1034	822	665
	U	4115	3275	2671	2223	1880	1611	1397
2000	S	2515	1993	1590	1208	940	746	603
	U	3772	2990	2433	2020	1706	1460	1265
2200	S	2351	1853	1476	1117	867	687	554
	U	3526	2779	2251	1864	1570	1342	1161
2400	S	2239	1750	1391	1048	811	640	515
	U	3359	2625	2115	1744	1464	1248	1077
2600	S	2174	1680	1329	996	767	604	-
	U	3260	2520	2014	1651	1381	1173	-

Wind Ratings (Pa) transom 81016 and filler 81021.



Height mm	Mullion centres mm							
	1800	2000	2200	2400	2600	2800	3000	
1800	S	2557	2034	1564	1191	929	738	597
	U	3835	3052	2490	2072	1752	1502	1302
2000	S	2343	1858	1427	1084	844	670	541
	U	3515	2786	2267	1883	1590	1361	1179
2200	S	2191	1726	1325	1003	779	617	-
	U	3286	2590	2098	1737	1463	1251	-
2400	S	2087	1631	1249	941	728	575	-
	U	3130	2447	1971	1625	1364	1163	-
2600	S	2026	1566	1193	894	689	542	-
	U	3038	2348	1877	1539	1287	1094	-

Wind Ratings (Pa) transom 81017.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

HINGED DOOR HEAD

Extruded aluminium door stop clips into any of the Elevate™ pocketed frame sections (medium 102 x 44mm frame illustrated).

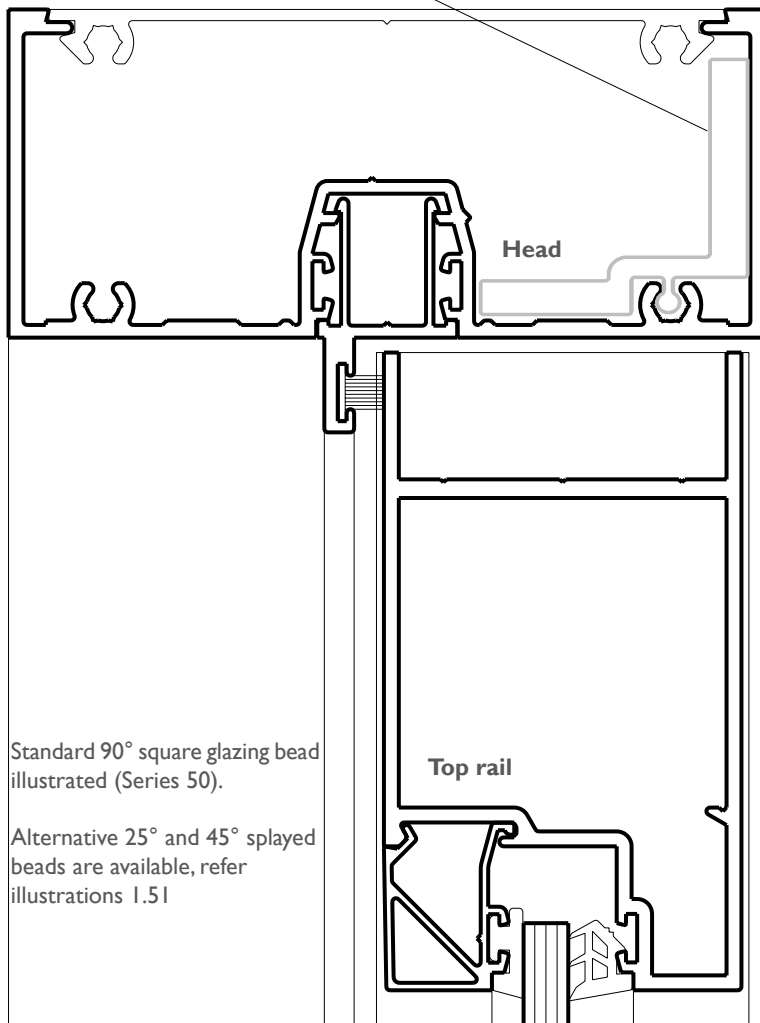
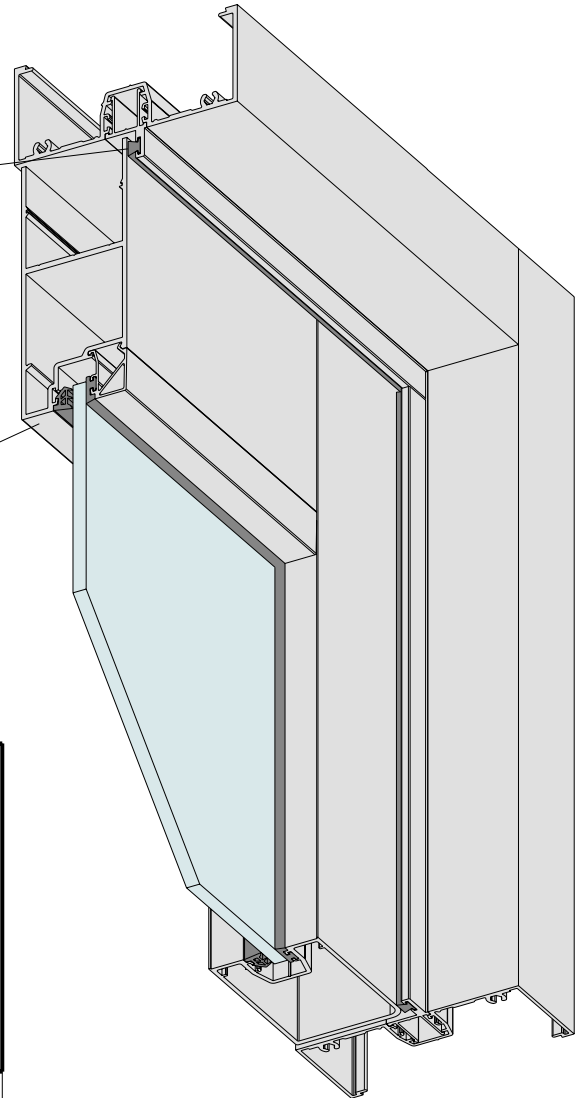
Weatherpile or co-extruded Santoprene stop seal.

On hinged doors fitted with surface mounted closers we recommend using 115mm bottom rail as top rail as illustrated right. The standard 85mm top rail is shown on full size detail below. Full size detail of 115mm bottom rail shown on later page.

Doors can be glazed with captive security wedge (same as framing). Other wedge options are roll-in both sides or Silicone on the outside are roll-in glazing wedges both sides.

Three door systems are available, shown earlier in these notes. Series 50 door panel sections illustrated.

Optional head backing plate for surface mounted door closers in high traffic areas.



Standard 90° square glazing bead illustrated (Series 50).

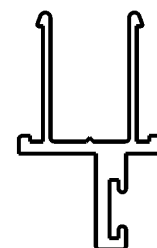
Alternative 25° and 45° splayed beads are available, refer illustrations I.51



CAD file: DWG
400.HGE.6

The extruded aluminium door stop shown above suits the standard 50mm thick doors.

A 40mm door stop to suit timber doors is shown below.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

HINGED DOOR TRANSOM

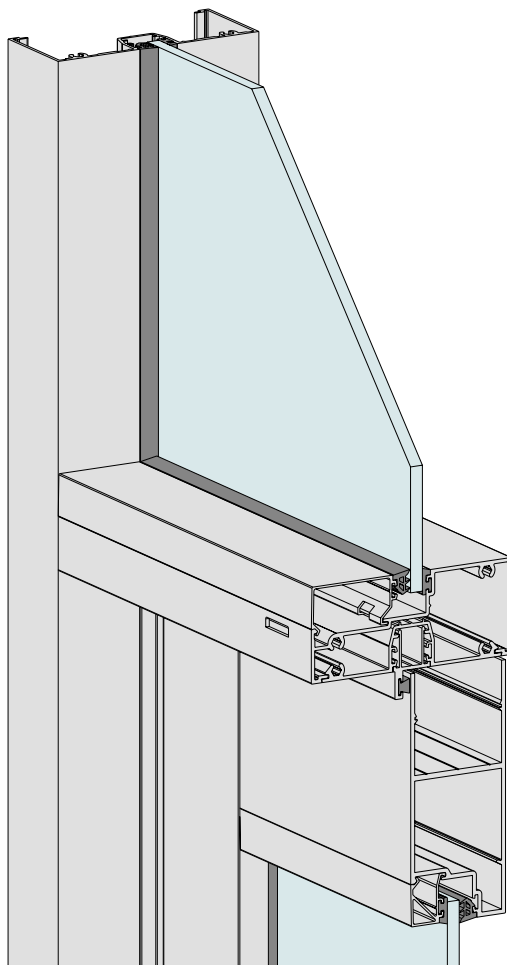
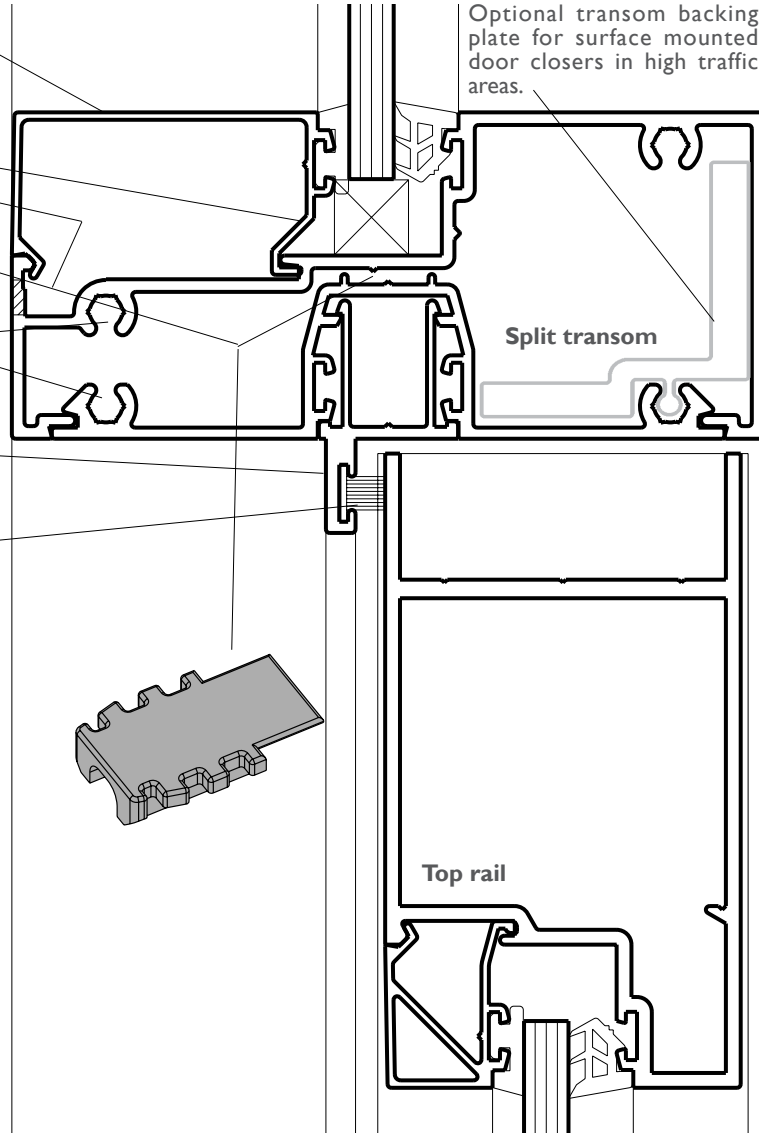
Standard square glazing bead illustrated, splayed bead also available.

Drain glazing pocket:
Drainage slots in glazing bead leg.
Sump in transom to collect water.
Drainage holes in transom to get water out of the system.
Transom/mullion pocket holes sealed off with custom pocket closing block.

Transom detail has four fixing screws per end to ensure this joint stays tight.

On this detail the door stop has been clipped to the pocketed filler.

Weatherpile or co-extruded Santoprene stop seal.



CAD file: DWG
400.HGE.6

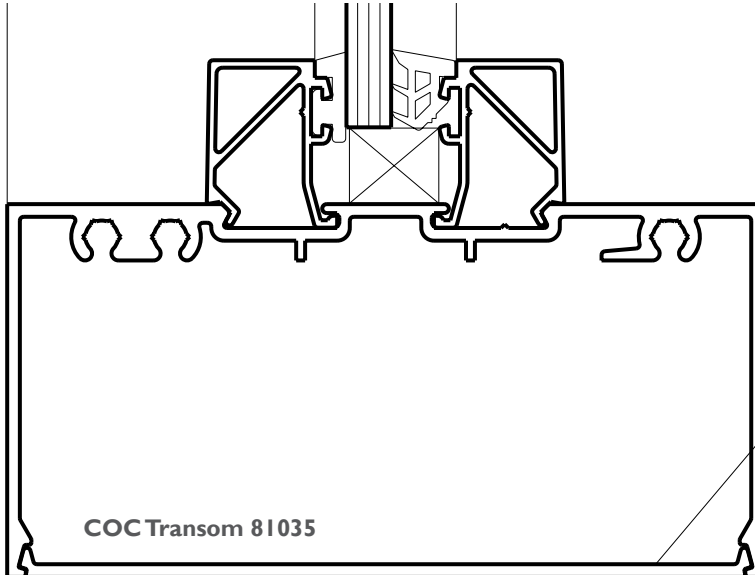
On hinged doors fitted with surface mounted closers we recommend using 115mm bottom rail as top rail as illustrated left.

The standard 85mm top rail is shown on full size detail above. Full size detail of 115mm bottom rail as shown on 1.90

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

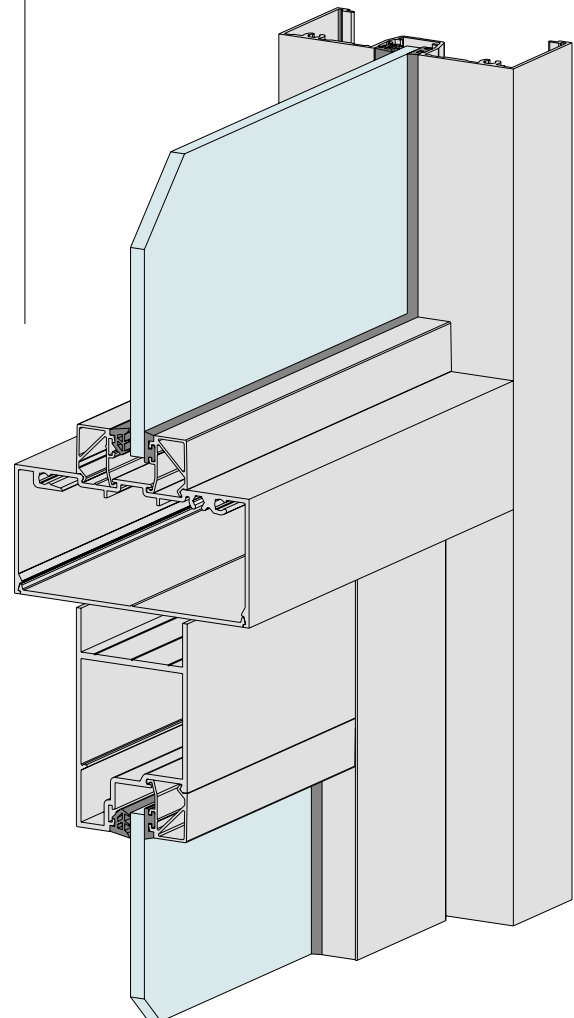
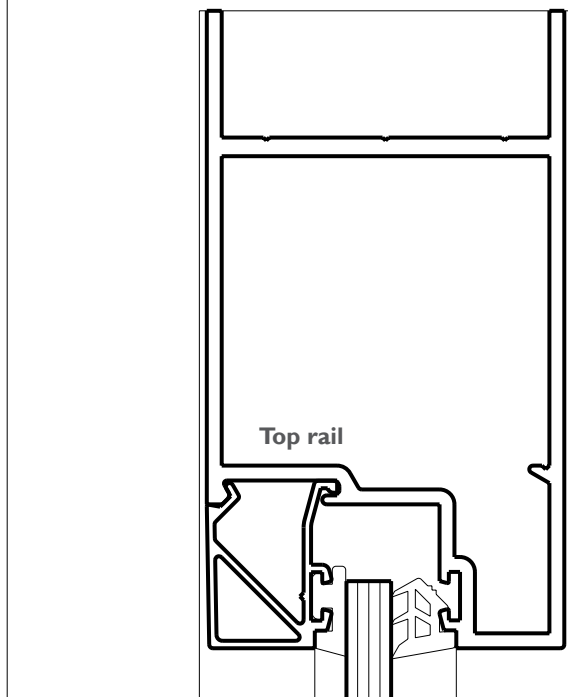
CONCEALED OVERHEAD CLOSER TRANSOM



Removable snap-in COC cover plate.

Three door systems are available, refer to 1.62 for more information.

Series 50 door panel sections illustrated.



Doors can be glazed with captive security wedge (same as framing). Other wedge options are roll-in both sides or Silicone on the outside and roll-in wedge on the inside.



CAD file: DWG
 400.PVT.I

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

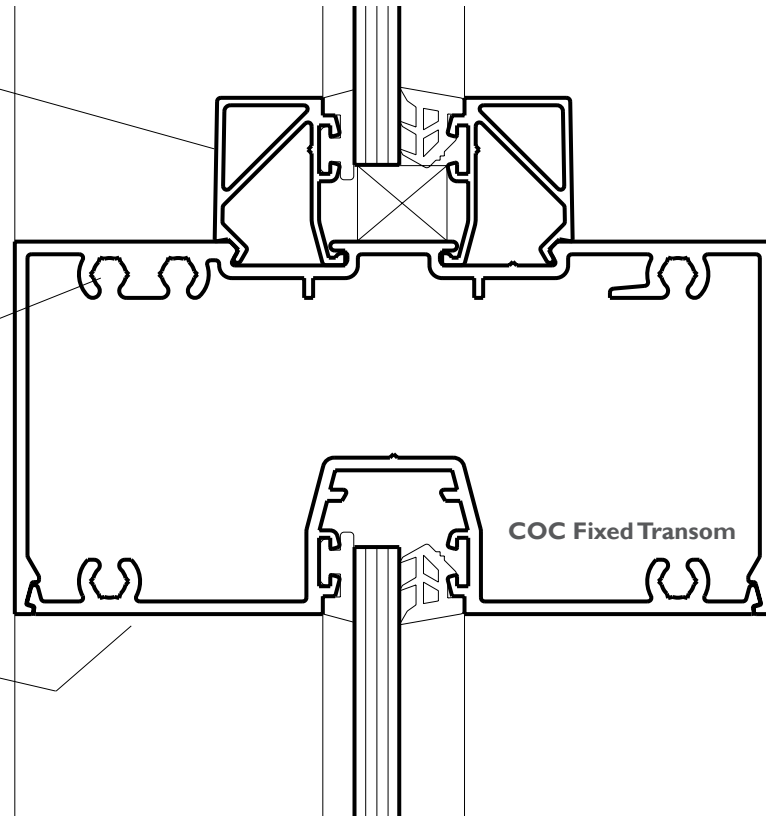
COCTRANSOM SIDELIGHT

Glazing beads clip directly to the COC transom as illustrated right. Besides the standard 90° square beads we can also offer 25° or 45° splayed beads.

COC transom screwed to jambs/mullions. This keeps the joint tight.

On door frames where the centre pivot doors with sidelights have one fixed highlight as shown here.

- The COC transom has to run through.
- A special pocketed COC filler for fixed sidelights is available.



CAD file: DWG
400.PVT.I

This design wind load table has been produced as a guide to assist in checking the COC transom 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.

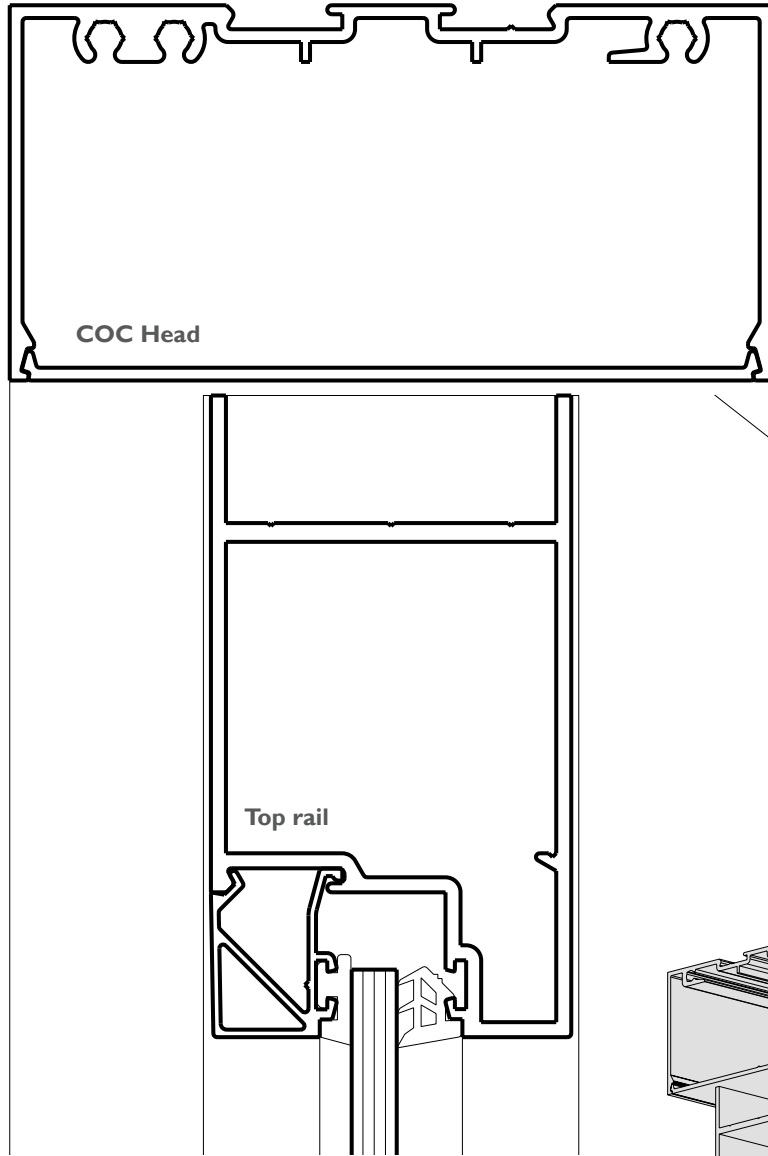
Transom mm	Overlight mm		Overall Frame Width mm					
			1800	2000	2200	2400	2600	2800
2100	600	S	2569	1931	1405	1028	777	604
		U	3853	2897	2240	1791	1470	1232
2100	800	S	2345	1769	1291	947	717	558
		U	3517	2654	2059	1650	1358	1139
2400	600	S	2569	1931	1402	1014	755	580
		U	3853	2897	2235	1761	1423	1178
2400	800	S	2345	1769	1288	934	698	537
		U	3517	2654	2055	1625	1317	1093

Wind Ratings (Pa) transom 81035.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

CONCEALED OVERHEAD CLOSER HEAD



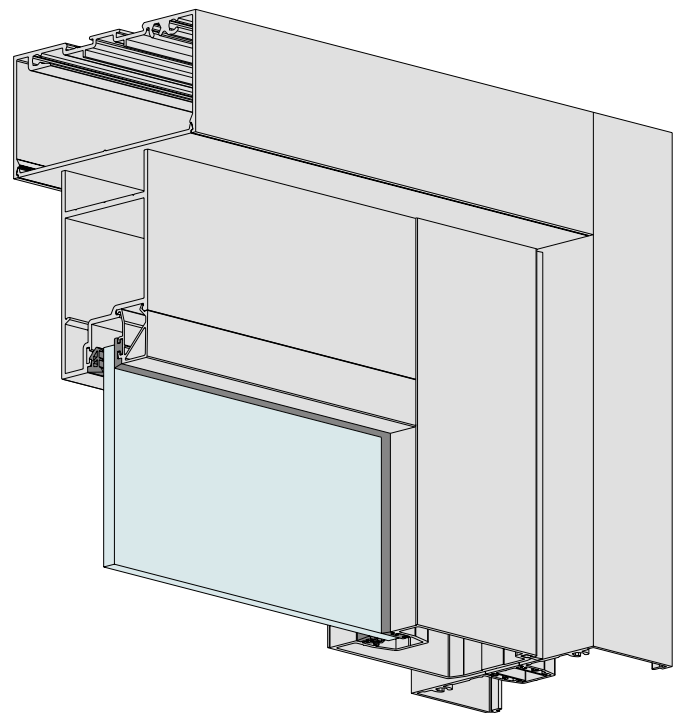
The COC transom extrusion is also used as head member on centre pivot doors without highlights.

Removable snap-in COC cover plate.

Series 50 top rail illustrated



CAD file: DWG
400.PVT.I



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

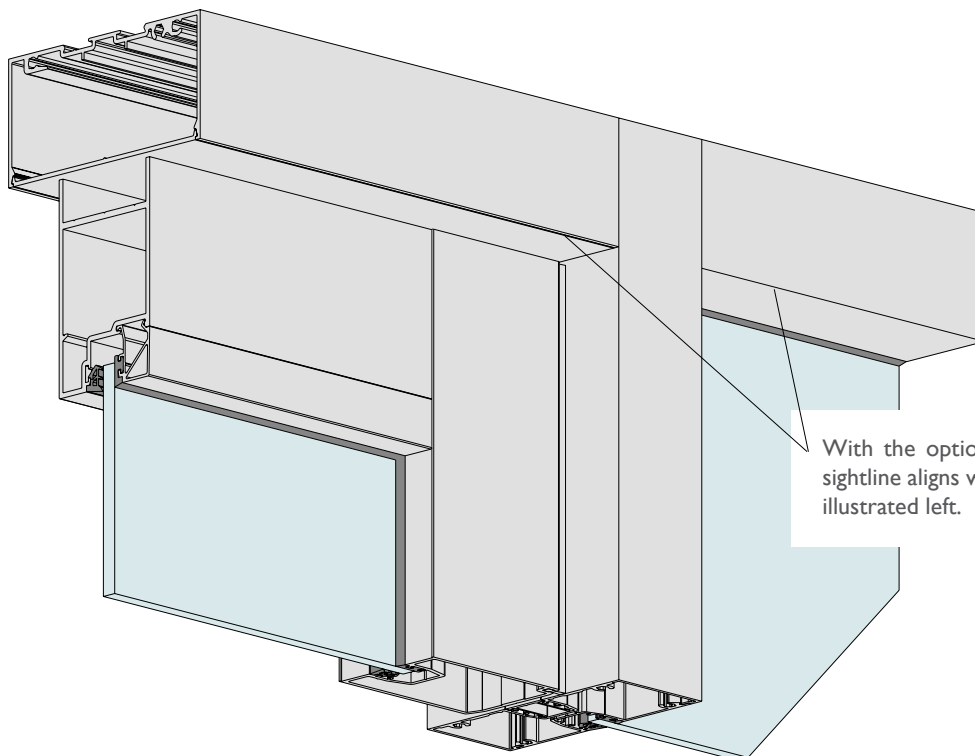
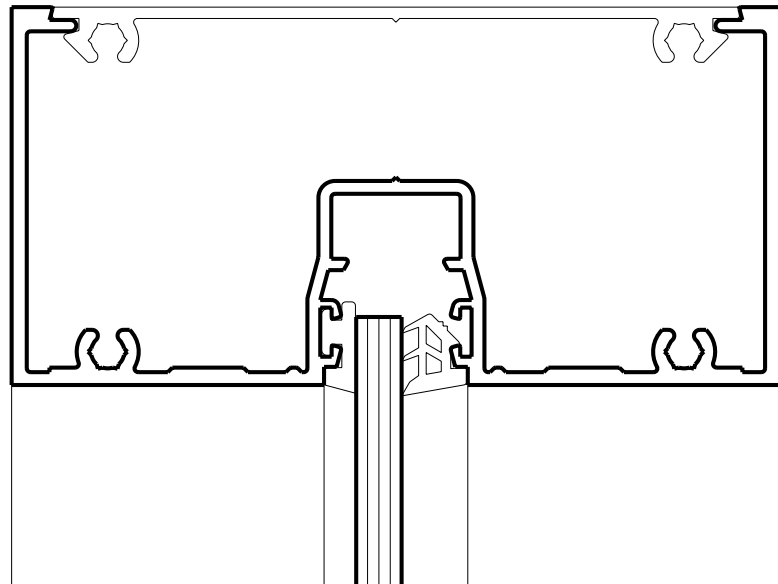
DEEP FRAME TO MATCH COC HEAD

Tall (50mm) fixed head can be used to align with COC head on previous page.

This wider open back frame section can also be used as jambs and snap together mullion if required.



CAD file: DWG
400.PVT.3



With the optional 50mm fixed head the sightline aligns with adjoining pivot door as illustrated left.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

CONCEALED OVERHEAD CLOSER THRESHOLD - 85

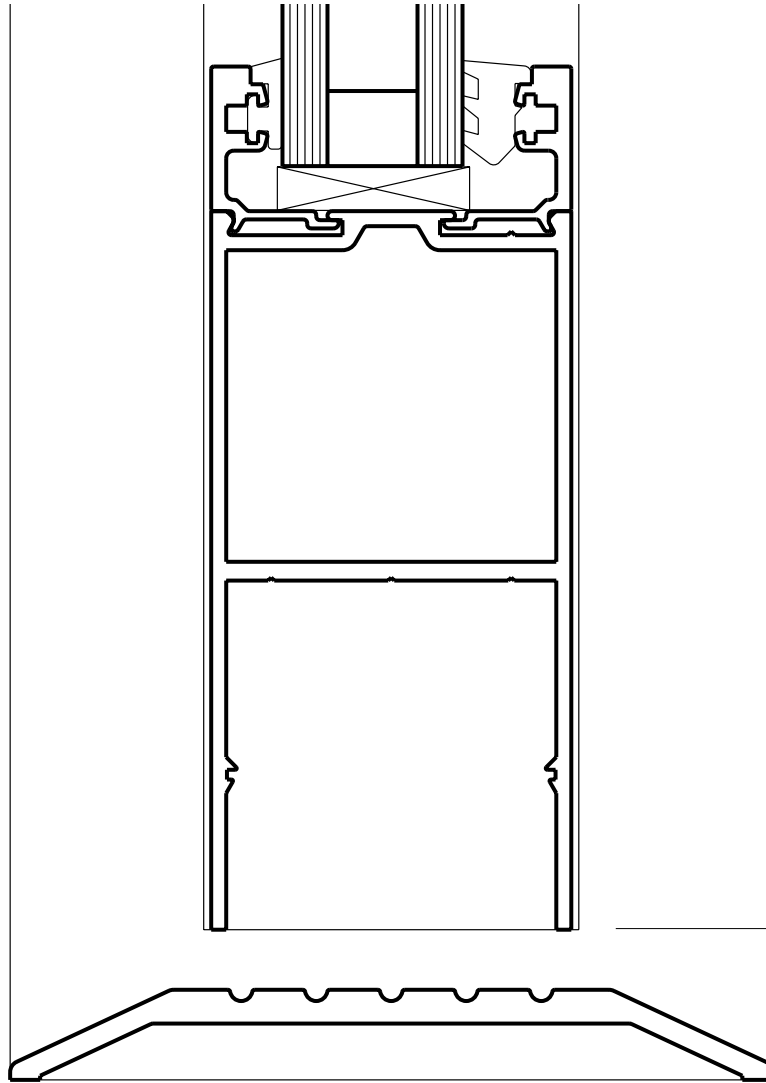


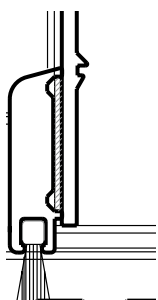
Illustration left shows Series 52 door bottom rail double glazed - Isometric below shows Series 50 single glazed.



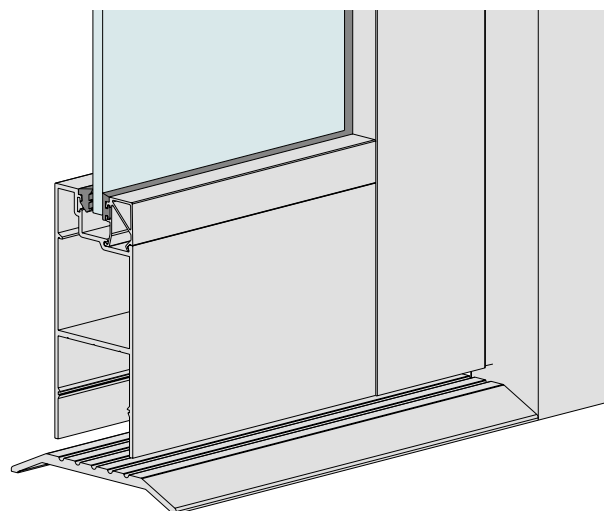
CAD file: DWG
 400.PVT.I

Double ramp threshold not suitable for sub-sill applications.

20mm
 gap



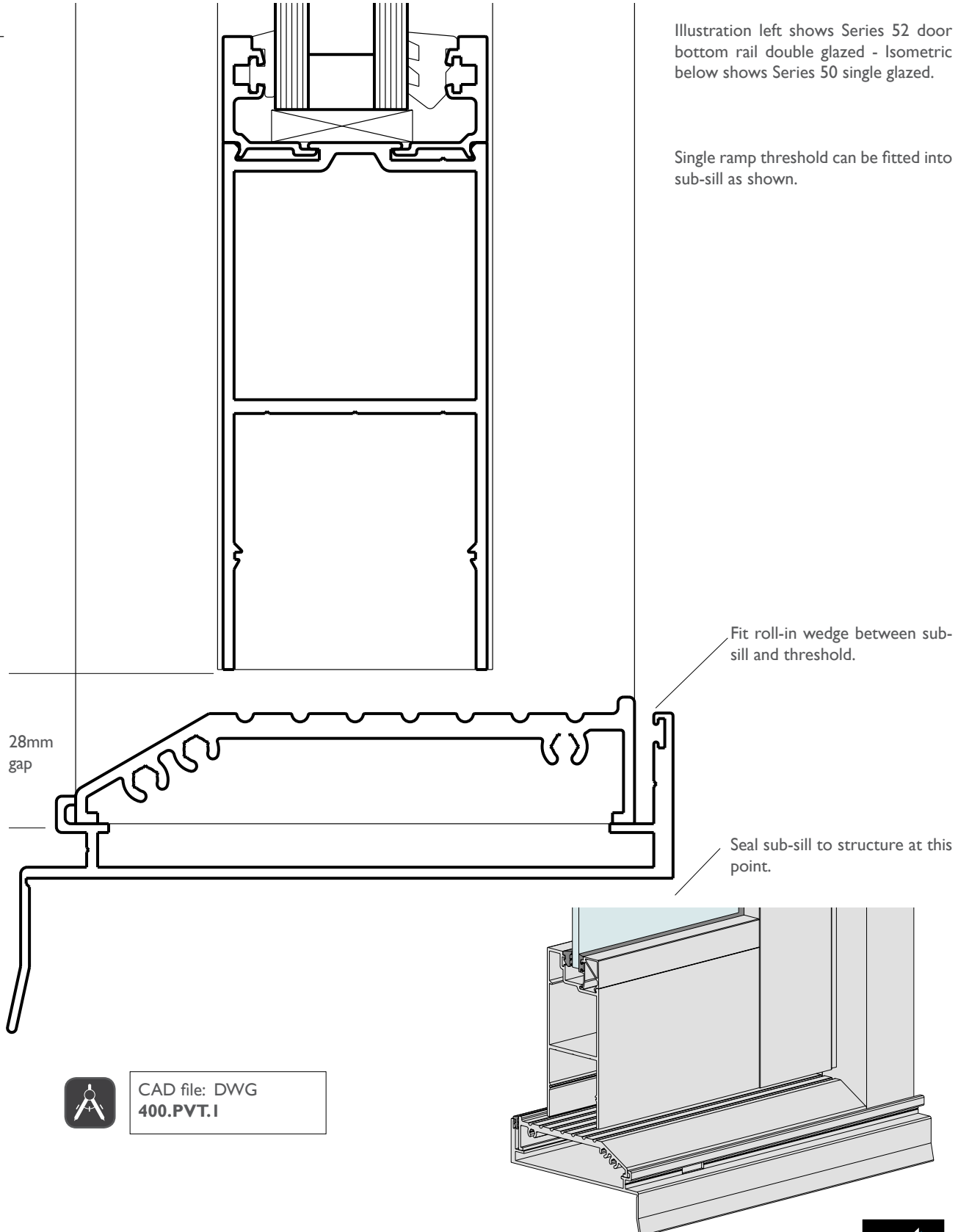
We can fit a weather strip to the bottom rail as shown left, to reduce air infiltration.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

CONCEALED OVERHEAD CLOSER THRESHOLD - 84

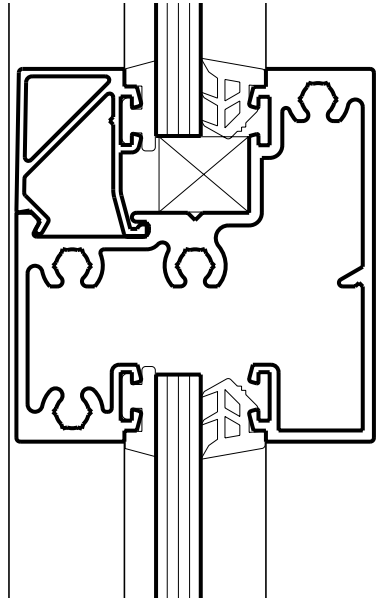


© Architectural Window Systems Pty Ltd 1996-2013

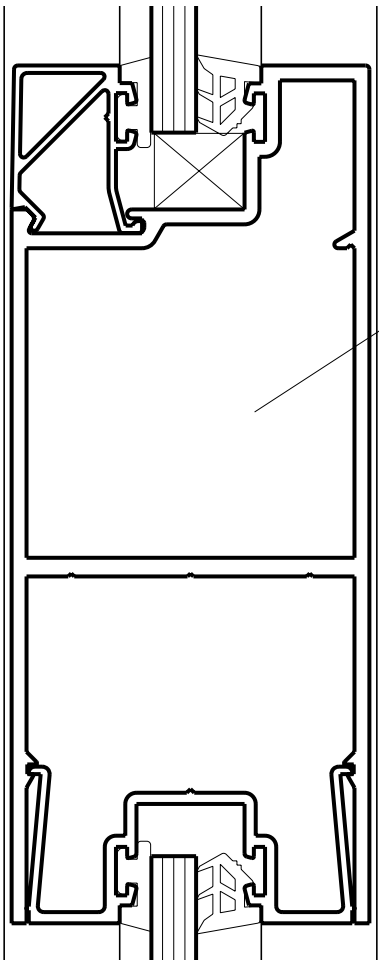
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

50 AND 115mm MIDRAILS



50mm Midrail



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.

Serviceability rating has been limited to 3333 Pa and

Ultimate strength rating has been limited to 5000 Pa.

Height mm	Mullion centres mm							
	1200	1400	1600	1800	2000	2200	2400	
1800	S	2217	1303	836	570	-	-	-
	U	4013	2771	2041	1572	-	-	-
2000	S	2101	1217	773	524	-	-	-
	U	3785	2575	1881	1441	-	-	-
2200	S	2064	1168	732	-	-	-	-
	U	3709	2462	1774	-	-	-	-
2400	S	2064	1153	709	-	-	-	-
	U	3794	2424	1711	-	-	-	-
2600	S	2064	1153	701	-	-	-	-
	U	4096	2466	1690	-	-	-	-

Wind Ratings (Pa) 50mm midrail.



CAD file: DWG
400.FXD.6

The 115mm Midrail is secured to door stiles, jambs and mullions with dedicated spigots.

Height mm	Mullion centres mm							
	1200	1400	1600	1800	2000	2200	2400	
1800	S	3333	3069	1969	1343	959	710	540
	U	5000	5000	4772	3676	2925	2386	1986
2000	S	3333	2864	1821	1234	878	648	-
	U	5000	5000	4398	3369	2671	2173	-
2200	S	3333	2750	1724	1158	818	601	-
	U	5000	5000	4147	3149	2482	2011	-
2400	S	3333	2714	1669	1108	776	566	-
	U	5000	5000	4000	3000	2345	1889	-
2600	S	3333	2714	1651	1079	748	541	-
	U	5000	5000	3951	2912	2251	1799	-

Wind Ratings (Pa) 115mm midrail.

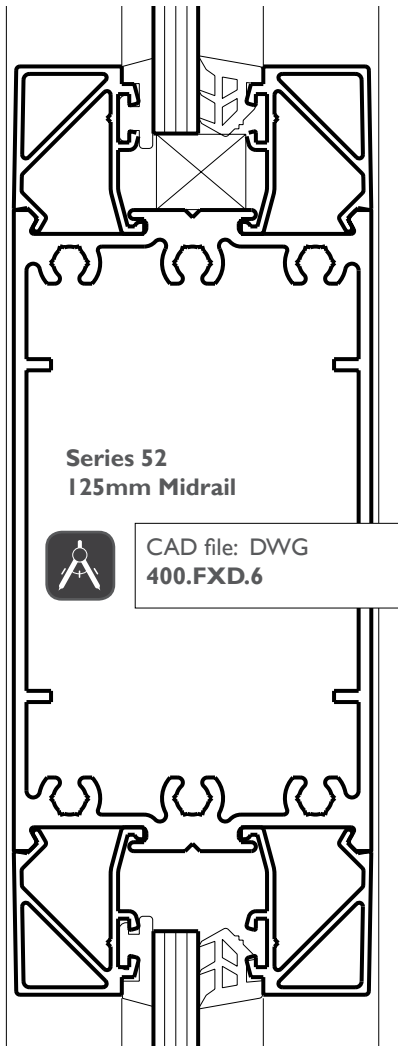
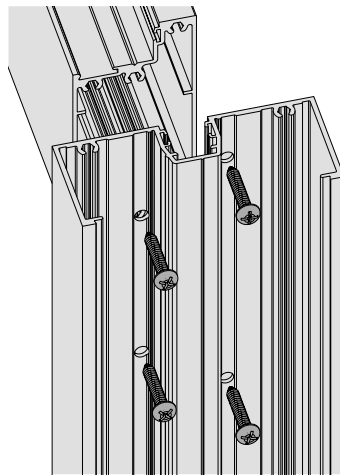
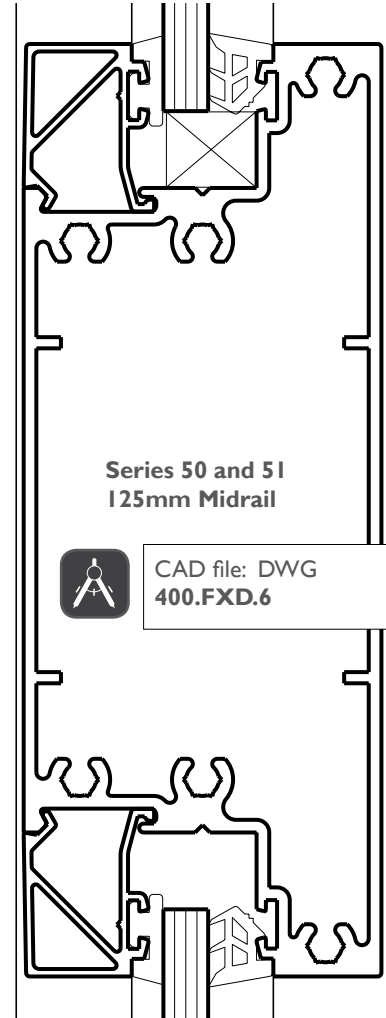
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

125mm MIDRAILS

Height mm		Mullion centres mm						
		1200	1400	1600	1800	2000	2200	2400
1800	S	3333	2720	1745	1190	850	629	-
	U	5000	5000	4040	3112	2476	2020	-
2000	S	3333	2539	1614	1094	778	574	-
	U	5000	5000	3723	2852	2261	1840	-
2200	S	3333	2438	1528	1027	725	533	-
	U	5000	4873	3511	2666	2101	1703	-
2400	S	3333	2405	1479	982	688	502	-
	U	5000	4798	3387	2540	1985	1599	-
2600	S	3333	2405	1464	956	663	-	-
	U	5000	4881	3345	2466	1906	-	-

Wind Ratings (Pa) 125mm midrail, Series 50 & 51



50mm and 125mm midrails have screw splines to allow them to be screwed to jambs/mullions.

The special Elevate™ glazing pocket has been designed to suit this midrail to frame fixing method, as illustrated above.

Doors have a dedicated spigot to allow secret fixings.

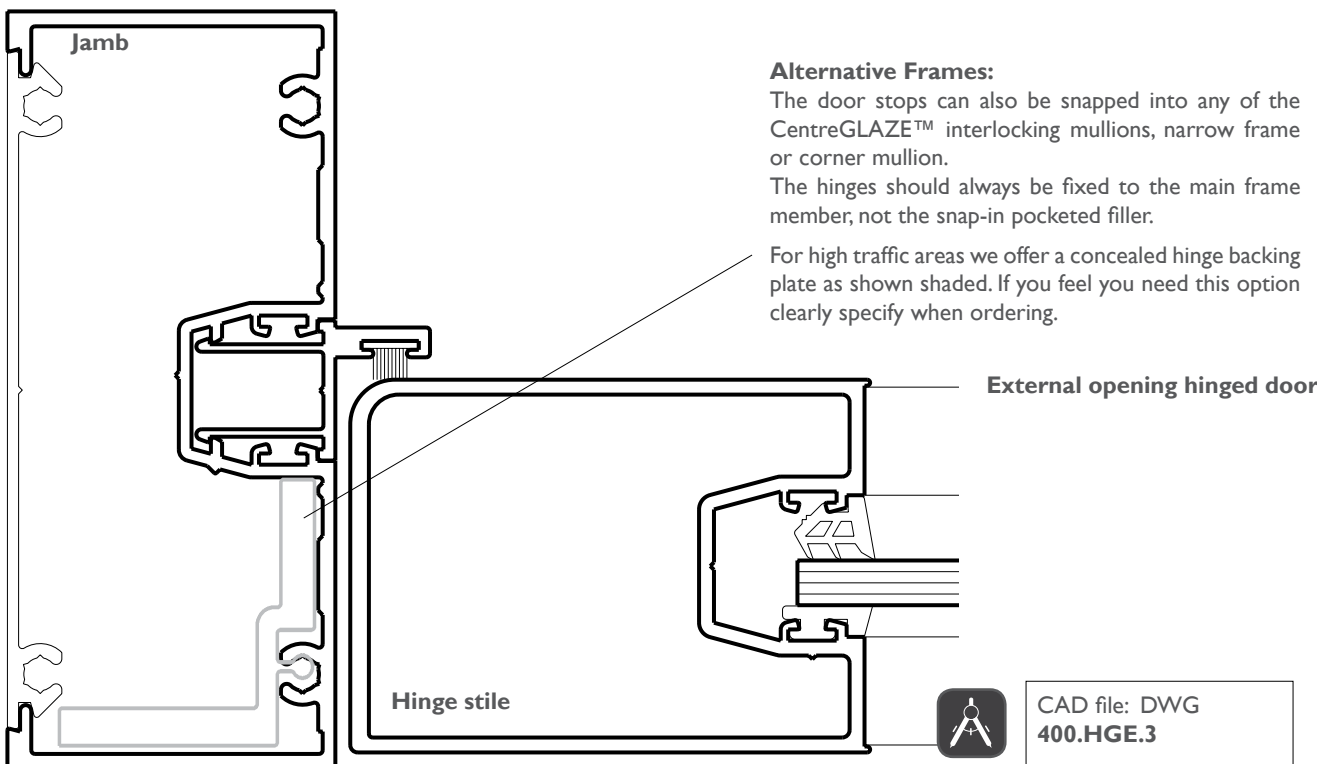
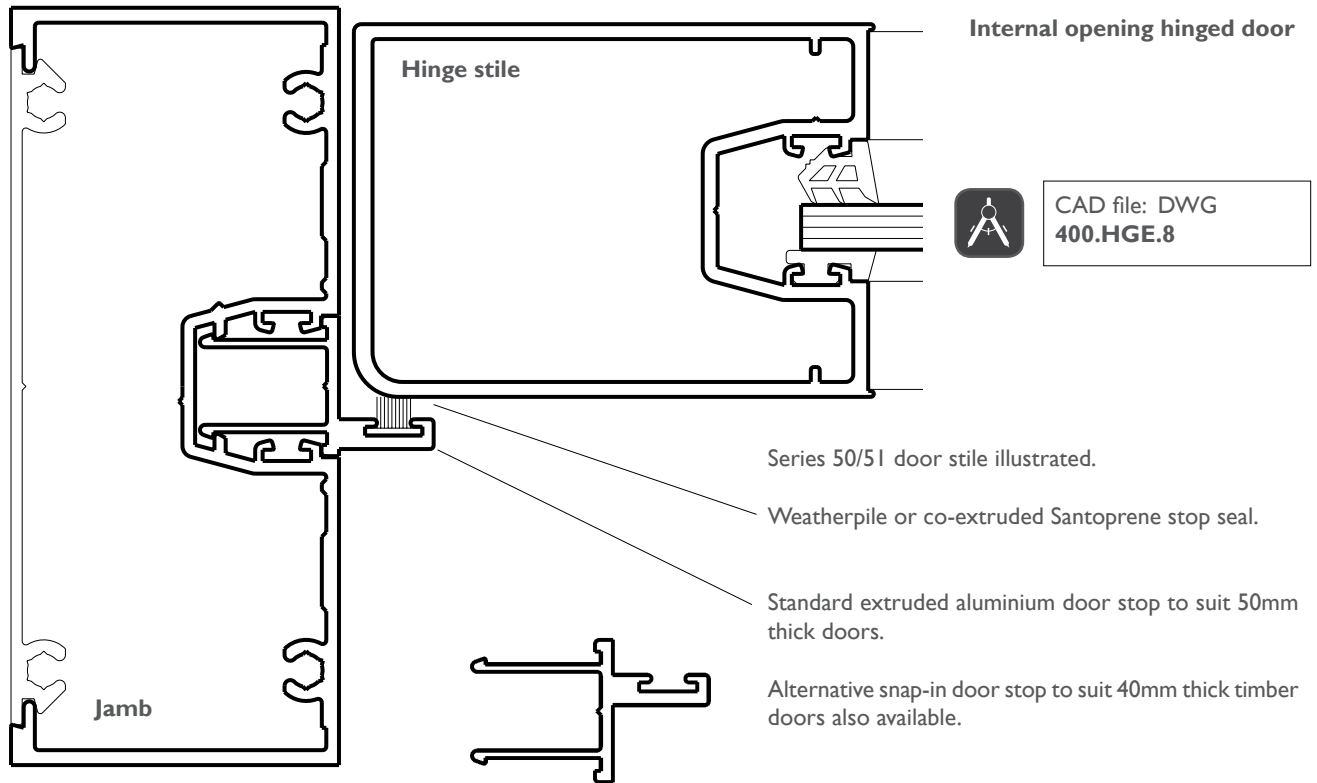
Height mm		Mullion centres mm						
		1200	1400	1600	1800	2000	2200	2400
1800	S	3333	2350	1508	1029	735	544	-
	U	5000	5000	3869	2980	2371	1934	-
2000	S	3333	2194	1394	945	672	-	-
	U	5000	4880	3565	2731	2165	-	-
2200	S	3333	2106	1320	887	627	-	-
	U	5000	4666	3362	2553	2013	-	-
2400	S	3333	2078	1278	848	594	-	-
	U	5000	4594	3243	2432	1901	-	-
2600	S	3333	2078	1265	826	573	-	-
	U	5000	4674	3203	2361	1825	-	-

Wind Ratings (Pa) 125mm midrail, Series 52

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

HINGED DOOR JAMBS



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

PIVOT DOOR JAMBS

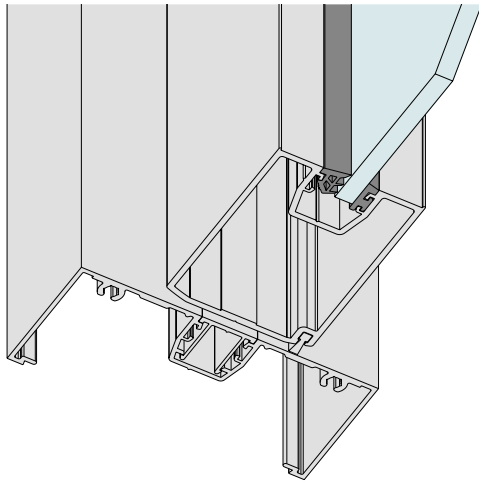
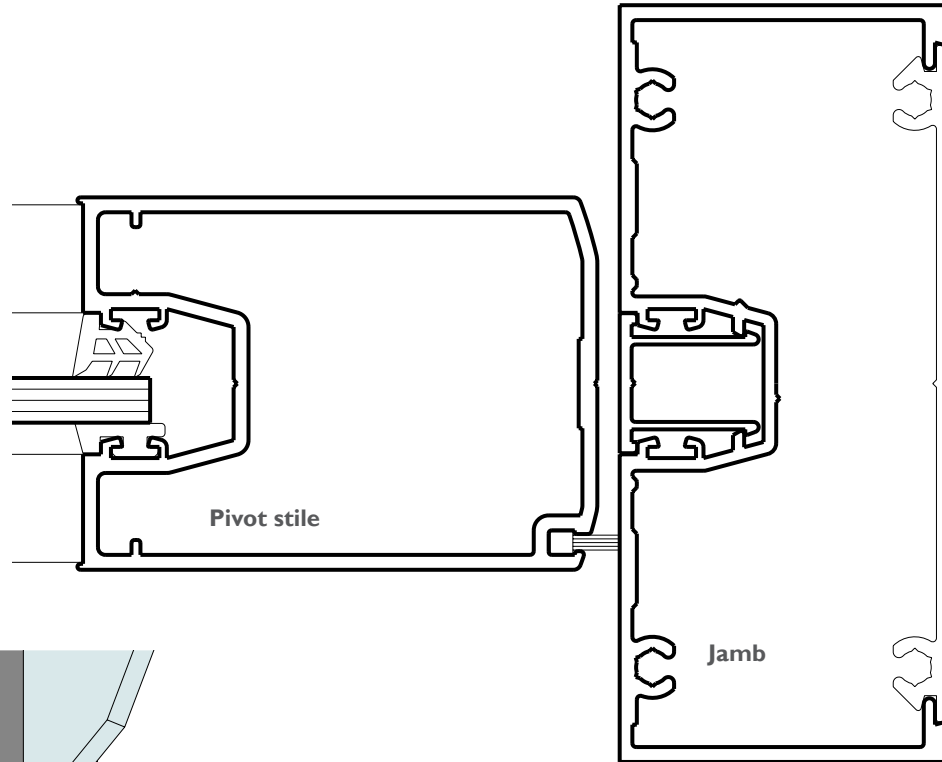
Centre pivot doors with highlights require a pocketed frame similar to the frame shown right.

Series 50/51 door stile illustrated

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

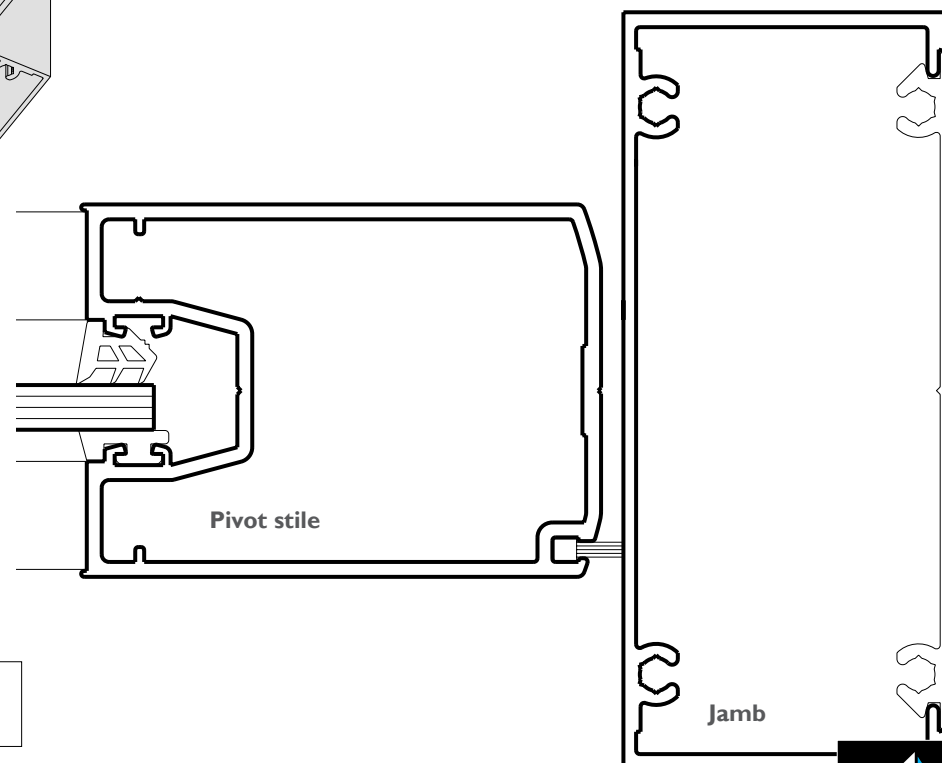
For thick or double glazing use Series 52 double beaded door.

All centre pivot doors are fitted with weatherpile fringe seal.



Centre pivot doors without highlights can use the plain frame as shown right.

Series 50/51 door stile illustrated.



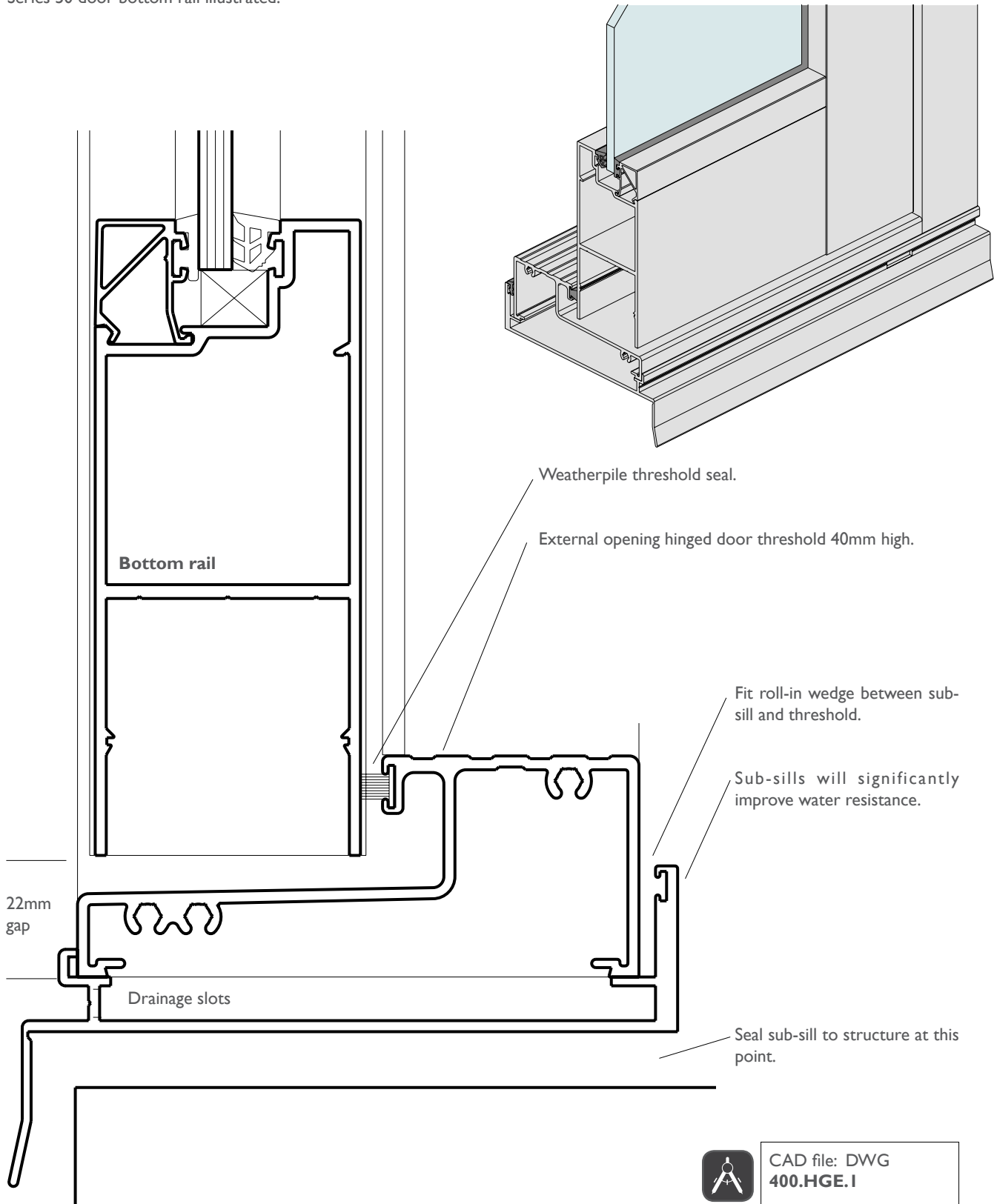
CAD file: DWG
400.PVT.2

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

EXTERNAL OPENING DOOR THRESHOLD - 75

Series 50 door bottom rail illustrated.

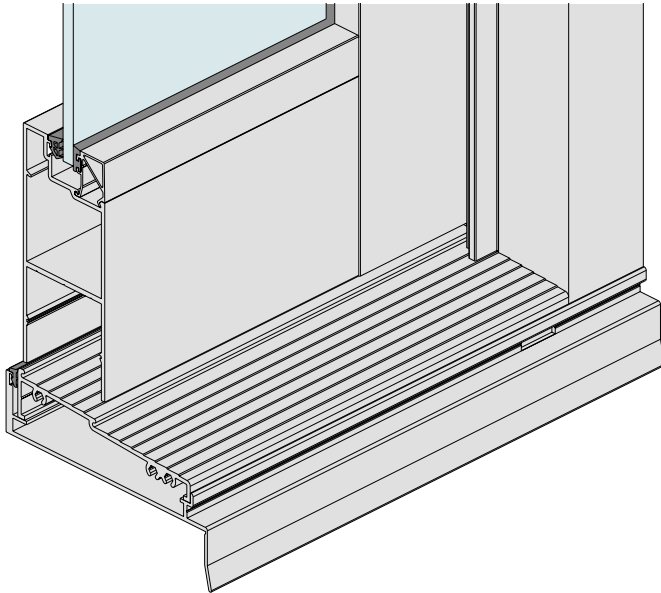


CAD file: DWG
400.HGE.1

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

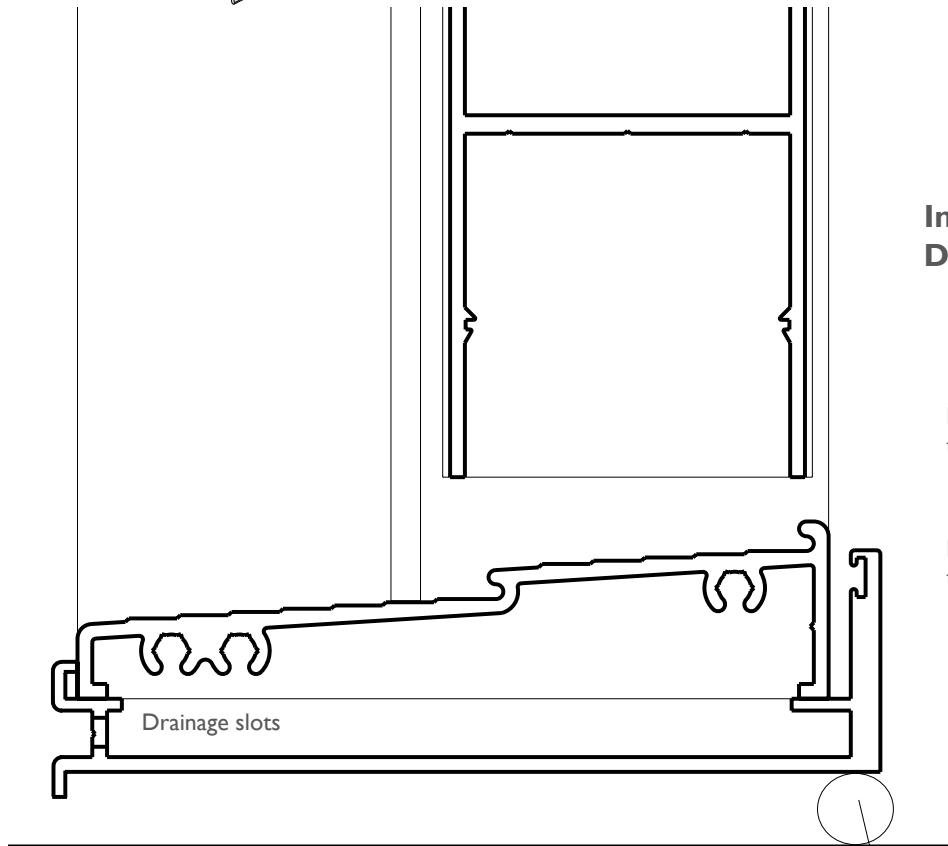
INTERNAL OPENING DOOR THRESHOLD - 68



Series 50 door bottom rail illustrated.



CAD file: DWG
400.HGE.7



Internal Opening Hinged Door Threshold

Internal opening hinged door
threshold 24mm high.

Fit roll-in wedge between sub-sill and
threshold.

30mm gap between underside
of door and underside of
threshold.

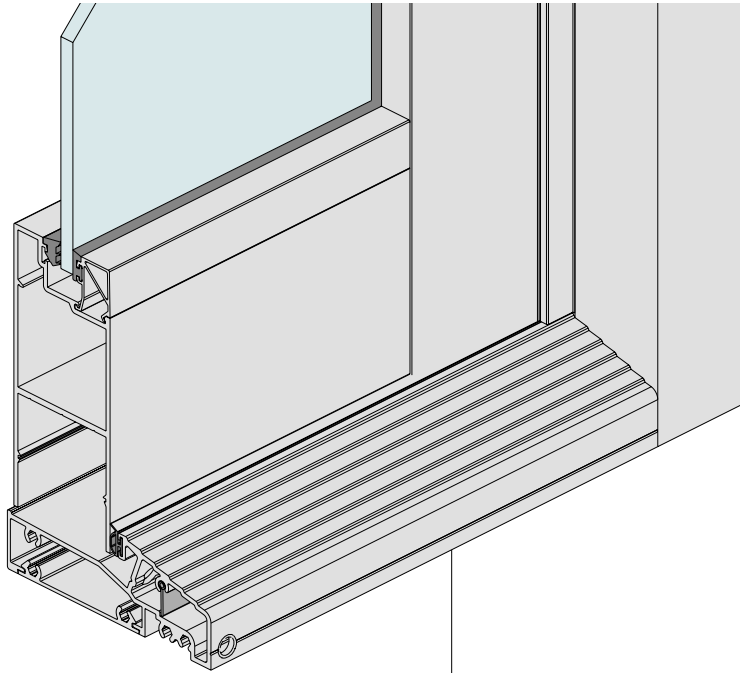
Allow 20mm for the
threshold including packing
under sub-sill.

Seal sub-sill to structure at this point.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

INTERNAL OPENING DOOR THRESHOLD - 83



Series 50 door bottom rail illustrated.



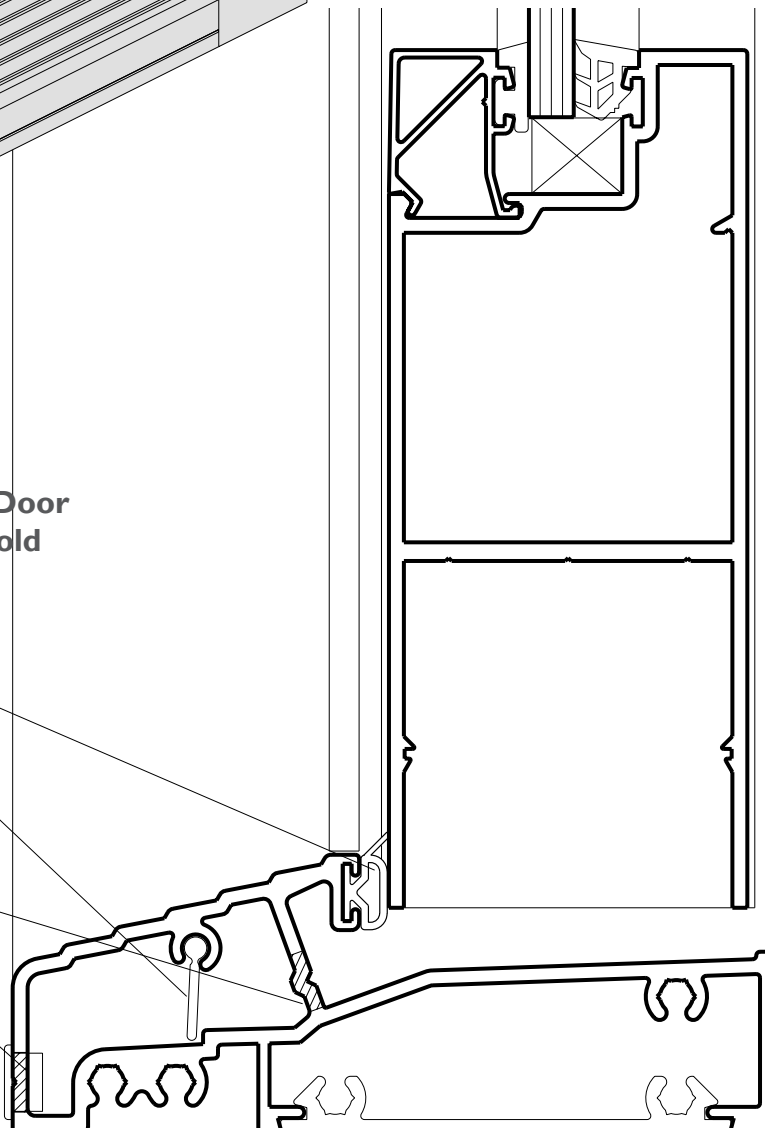
CAD file: DWG
400.HGE.6

Internal Opening Hinged Door Weather Resisting Threshold

Co-extruded Santoprene seal.

Co-extruded Santoprene sill
flap reduces wind blow back and
insect infiltration.

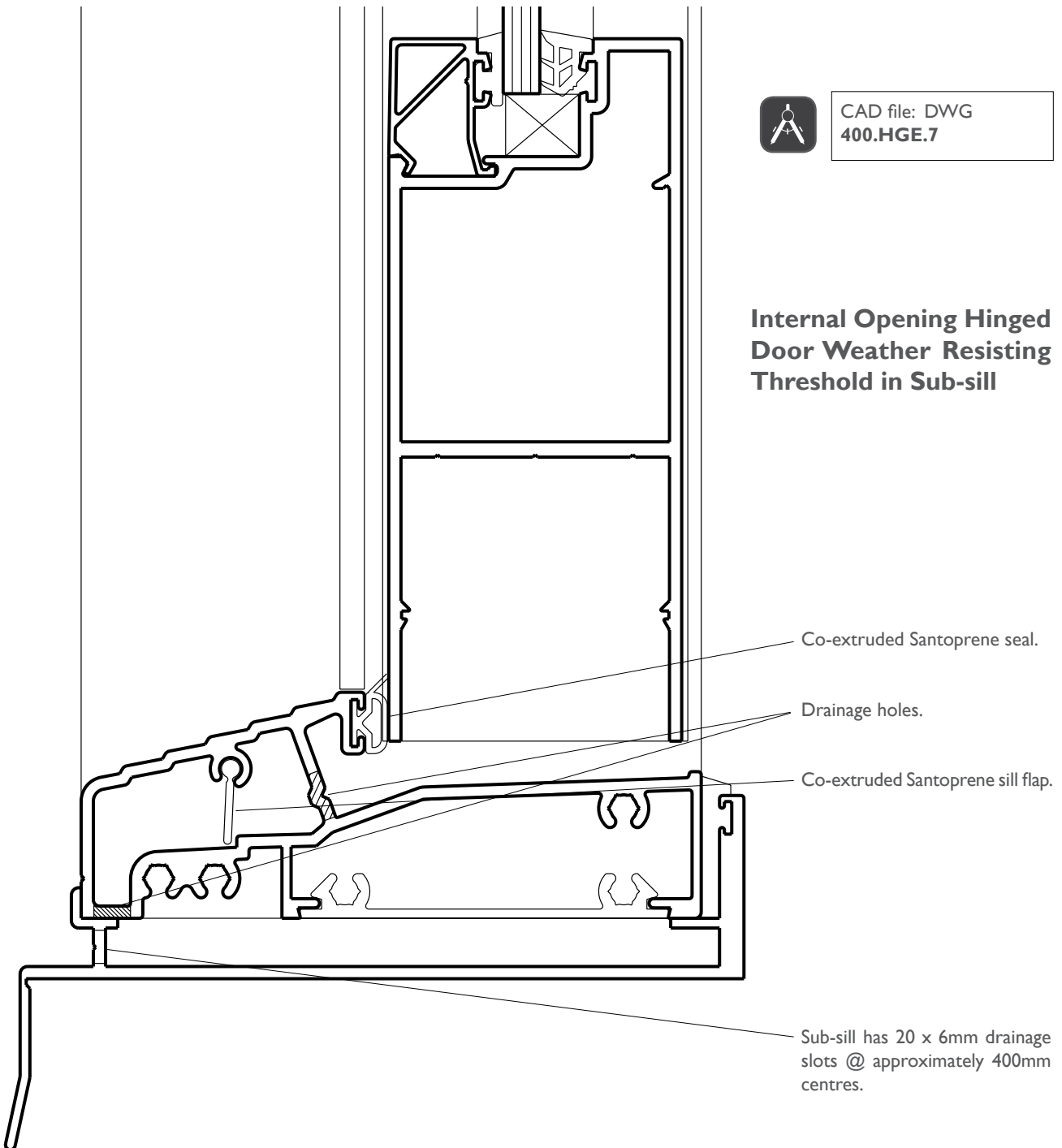
Drainage holes.



Series 400
CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

INTERNAL OPENING DOOR THRESHOLD - 83



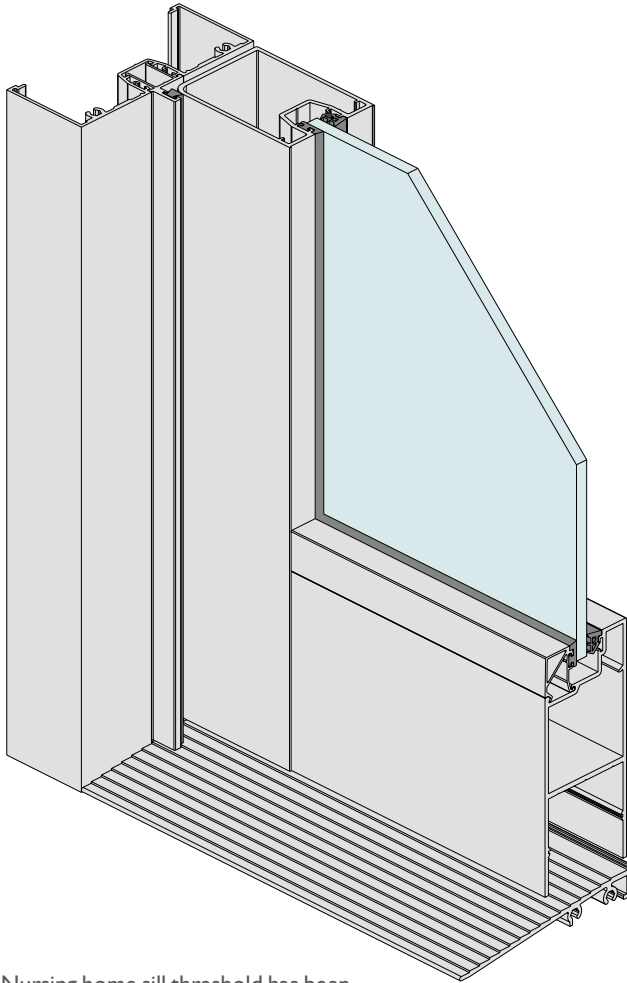
© Architectural Window Systems Pty Ltd 1996-2013

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

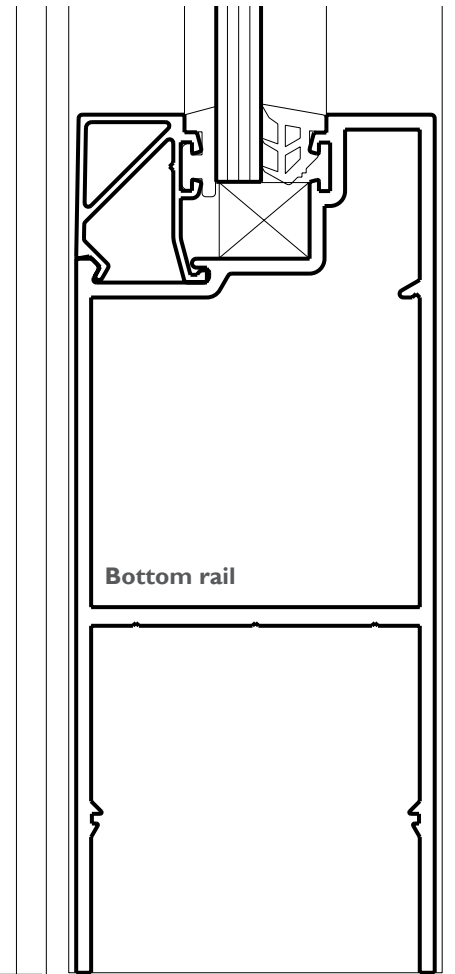
NURSING HOME DOOR THRESHOLD - 69

Series 50 door bottom rail illustrated.



Nursing home sill threshold has been designed for wheelchair access.

7° ramp angle.



22mm gap between underside of door and underside of threshold.



Note:

This threshold is not suitable for sub-sill installation.



CAD file: DWG
400.HGE.7

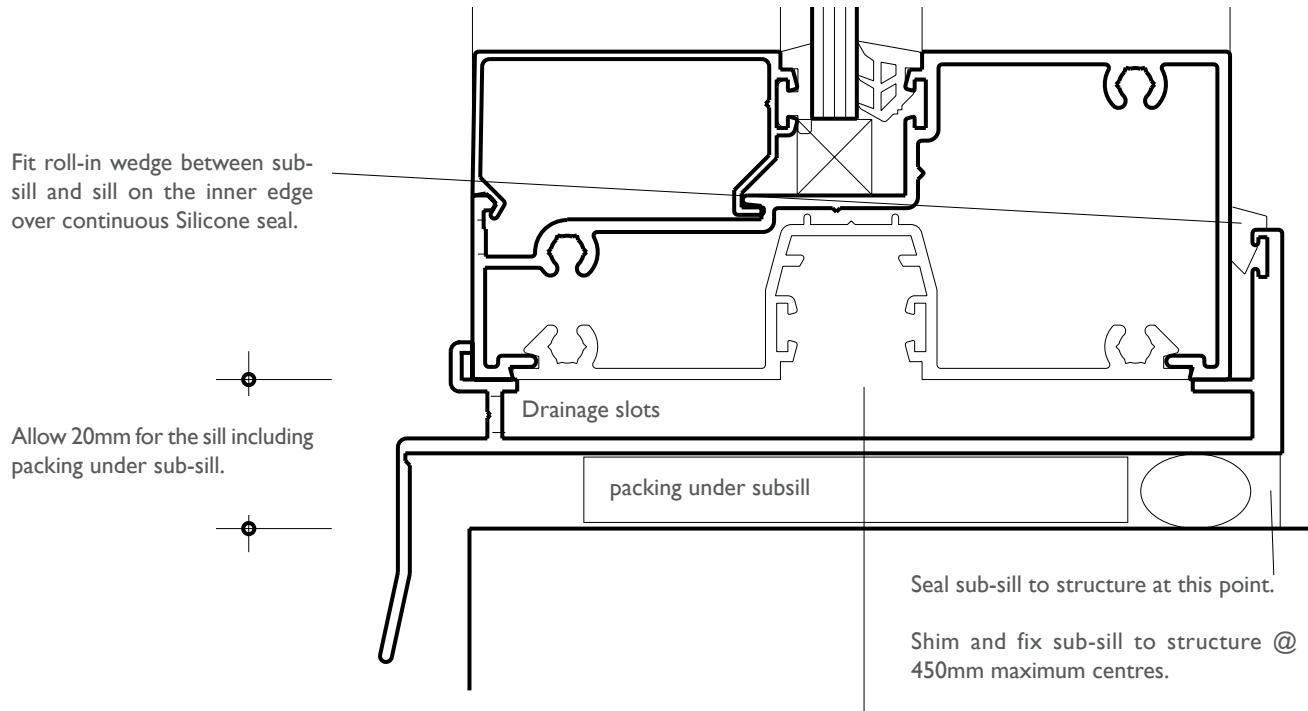
Note:

As there is a clear gap under the door there is no water resistance with this type of sill detail.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

STANDARD FIXED SILL



The standard fixed sill comes in the three sill strength alternatives as shown earlier in these notes.

We always recommend that these 102 x 44mm sills are fitted into sub-sills as shown on this page.

These sub-sills should be stop ended to ensure that any water that gets into this area is guided out of the system via the front drainage slots.



CAD file: DWG
400.FXD.I

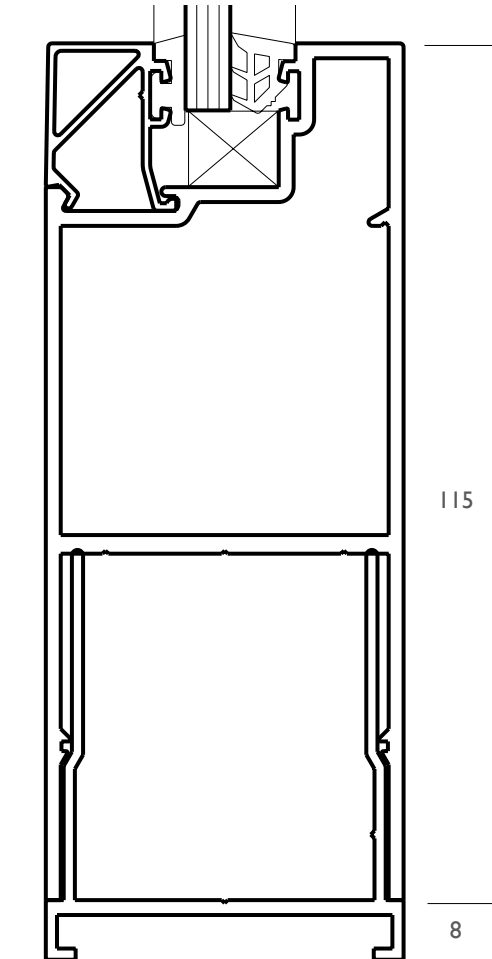


Alternative flat sub-sills available.

Series 400 CentreGLAZE™ Framing

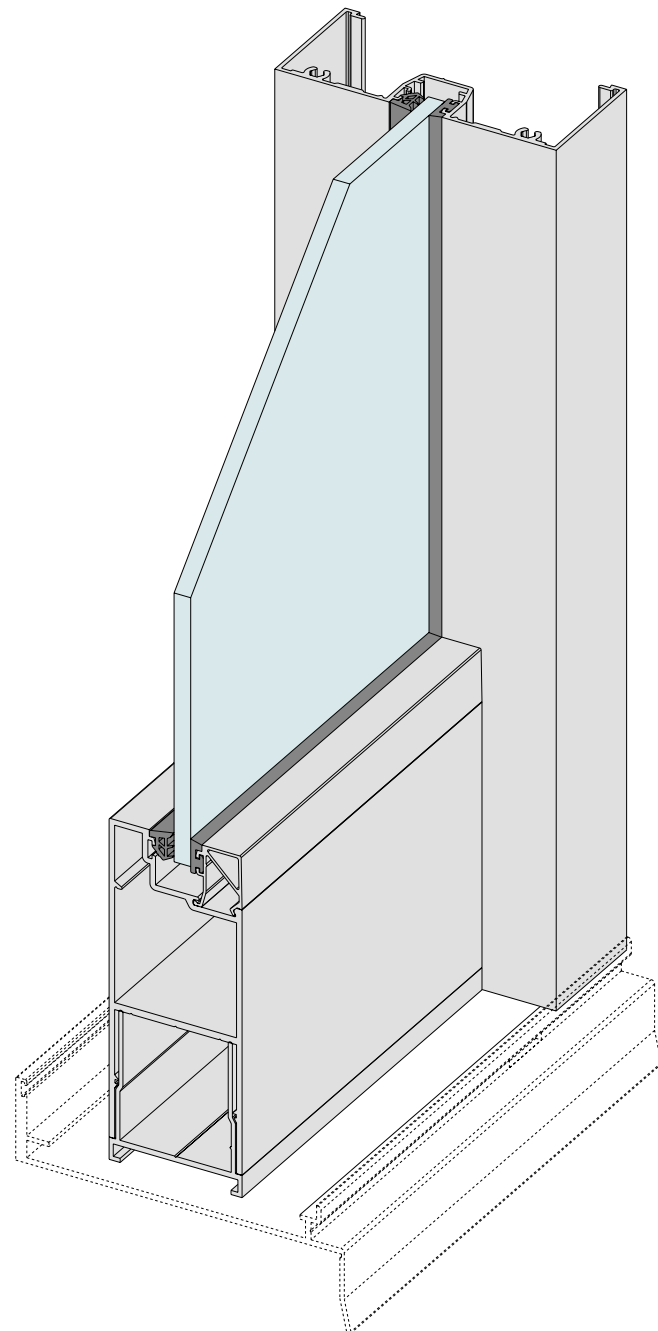
DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ALTERNATIVE TALL FIXED SILL



The special tall fixed sill (115 + 8mm) can be created with any of the three door bottom rails, Series 50 bottom rail illustrated left.

8mm rail spacer nests into the bottom rail to get the height up to align with adjoining door.



CAD file: DWG
400.PVT.1

Important Note:

Tall fixed sills can't be fitted into sub-sill.

Sub-sill as shown (dotted) is too wide for the tall sill.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

SUB-HEAD AND SUB-JAMB DETAILS

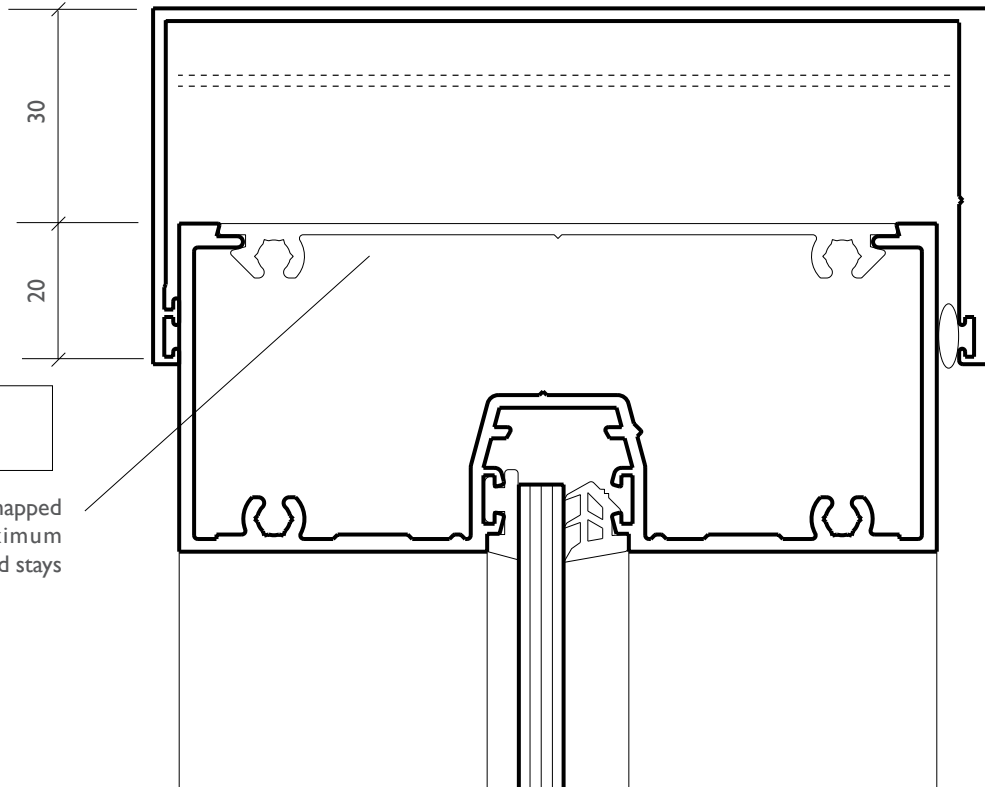
Standard 50mm deep sub-sill.

Alternative 40mm deep sub-sill shown dotted.



CAD file: DWG
400.FXD.1

150mm lengths of flat filler snapped into head @ 450mm maximum centres to ensure that the head stays a tight fit in the sub-head.

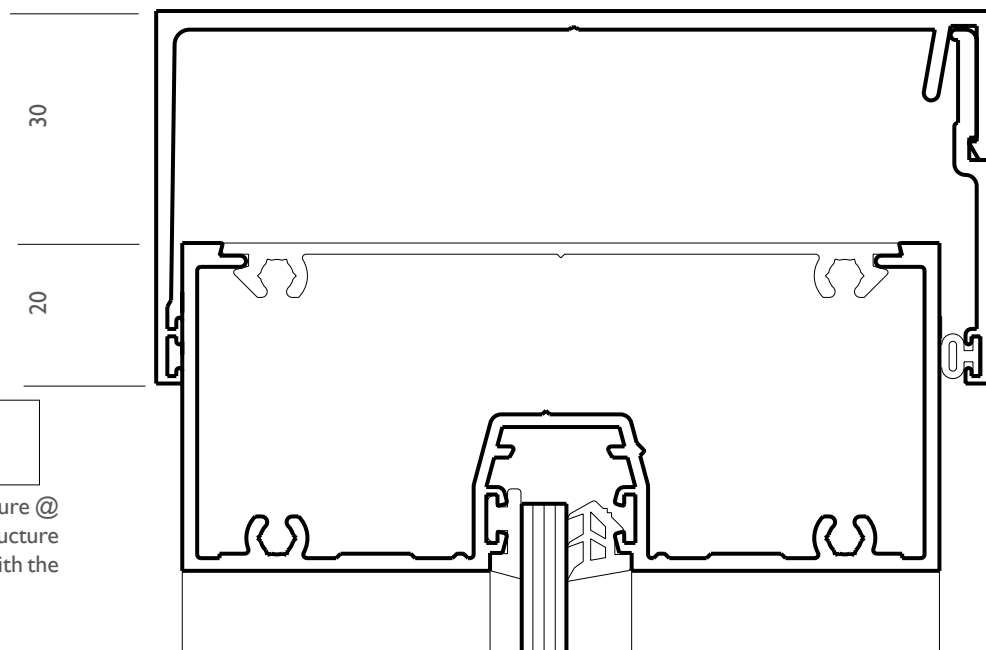


Two piece sub-jamb



CAD file: DWG
400.FXD.2

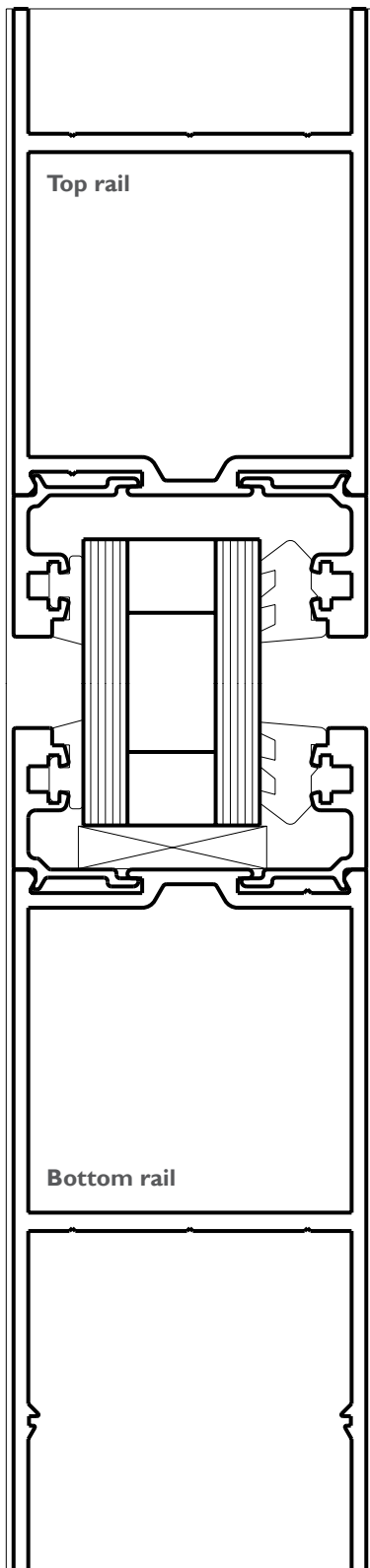
Fix the sub-jamb base to structure @ 450mm max.centres. Seal to structure on the inner line to match up with the sub-sill caulking.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

DOUBLE GLAZED DOOR



Series 52 door can be fitted with dedicated glazing beads that allow this door to accept up to 34mm insulating glass units (IGUs).

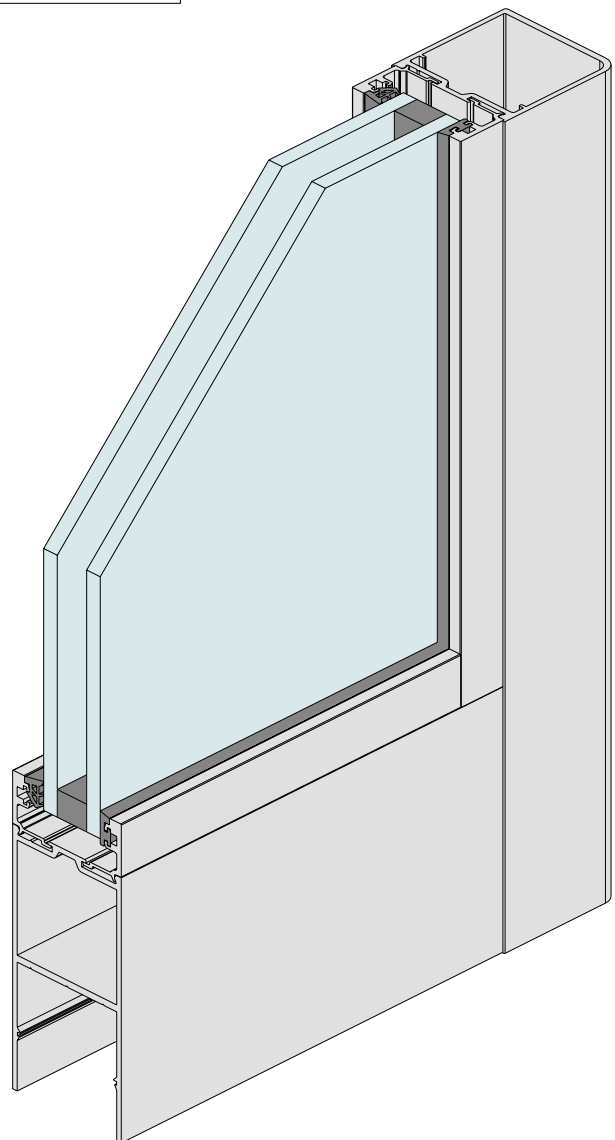
Double glazed doors will be heavy and require a heavy duty frame with more hinges to support the weight.

We also have a 125mm midrail that will accept up to 34mm IGUs.

Refer Series 424 for additional details on double glazed doors and framing.



CAD file: DWG
52.DOOR



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

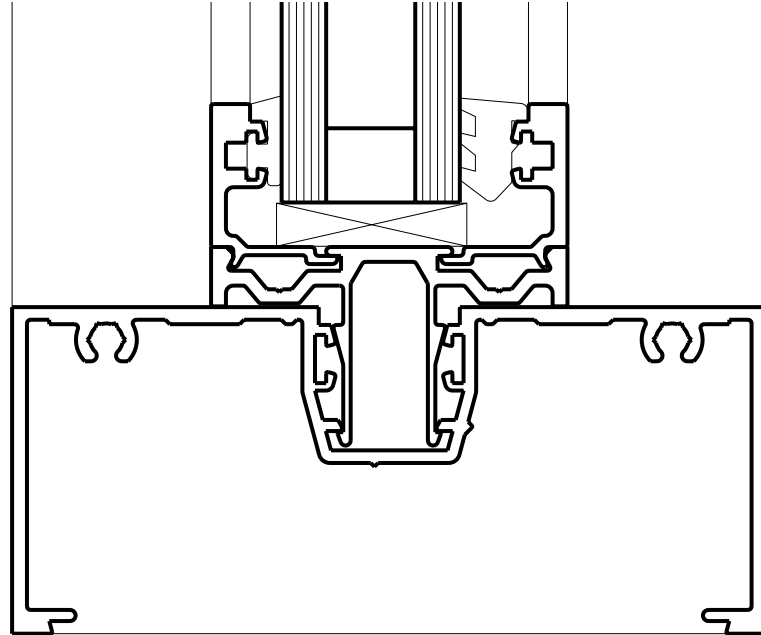
DOUBLE GLAZED FIXED LIGHTS

Elevate™ has a custom adaptor that snaps into any of the centre glazed pocket frames as shown right.

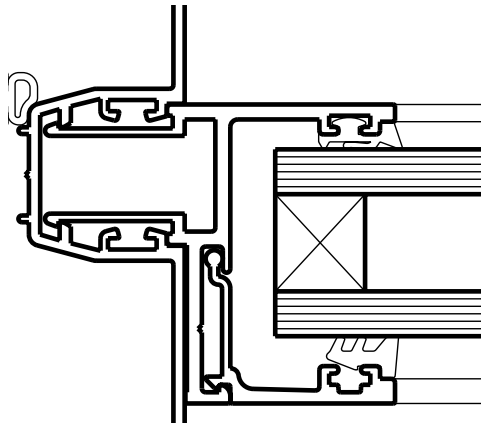
Double glazed units up to 24mm thick can be security glazed the same as single glazing, with captive wedge on the outside and roll-in wedge on the inside.

Notes:

- Double glazing adaptor won't snap to beaded sill/transoms.
- We also have a 125mm midrail that will accept IGUs.
- We also offer a dedicated double glazed 102mm framing system - Series 424 I.151



CAD file: DWG
400.FXD.5

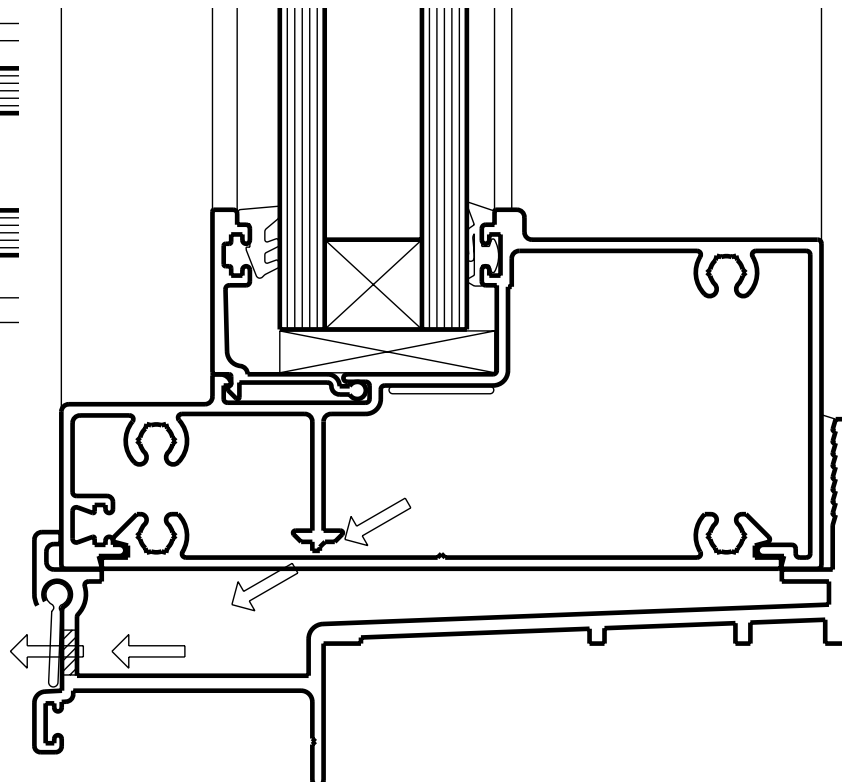


Elevate™ also has a custom sill and jamb adaptor (shown above) that will accept a variety of glazing beads that allow double glazing.

Double glazed units up to 24mm thick can be security glazed the same as single glazing, with captive wedge on the outside and roll-in wedge on the inside.

Important Note:

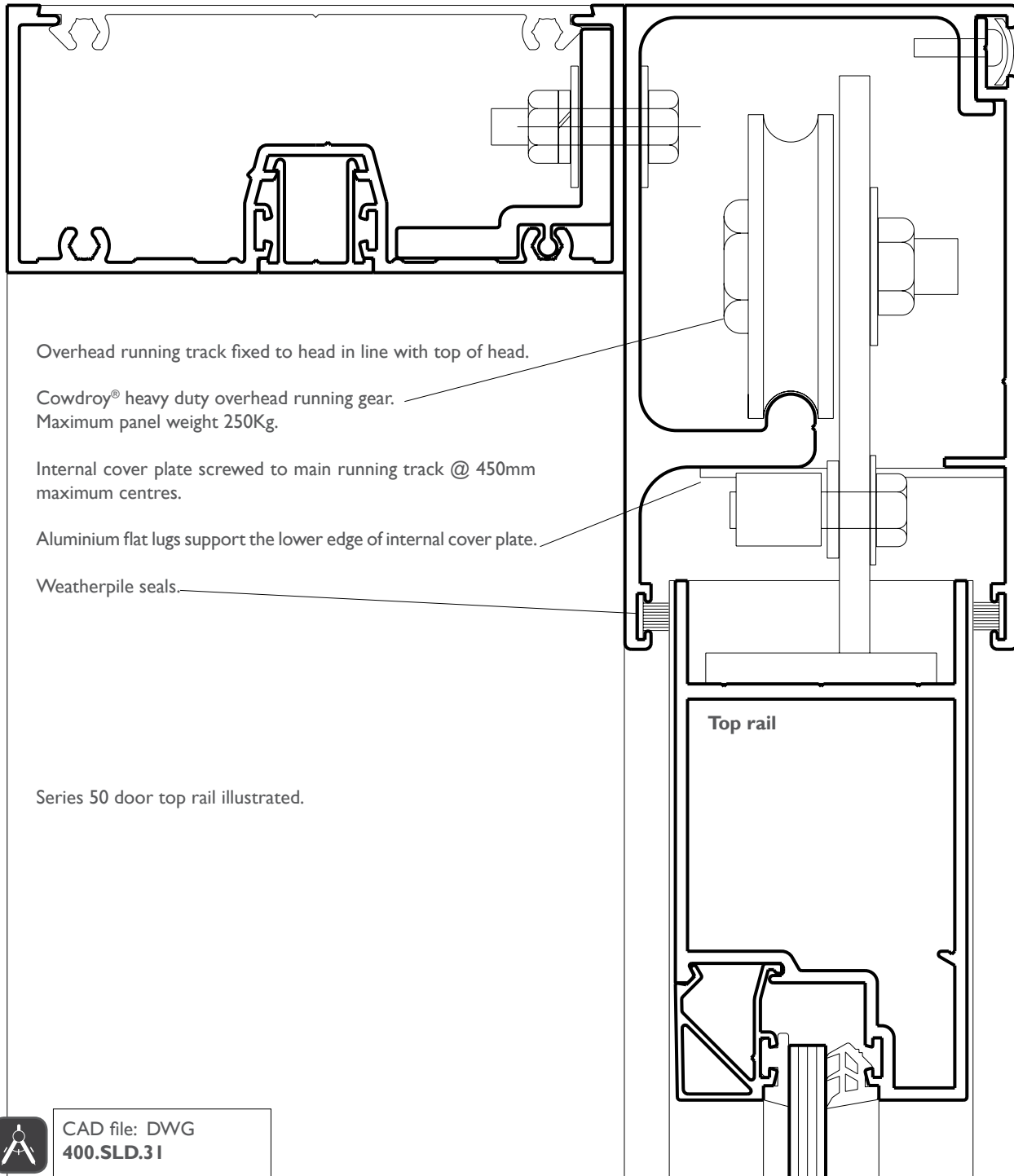
We always recommend sub-sills under commercial frames.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

OVERHEAD SLIDING DOOR - HEAD

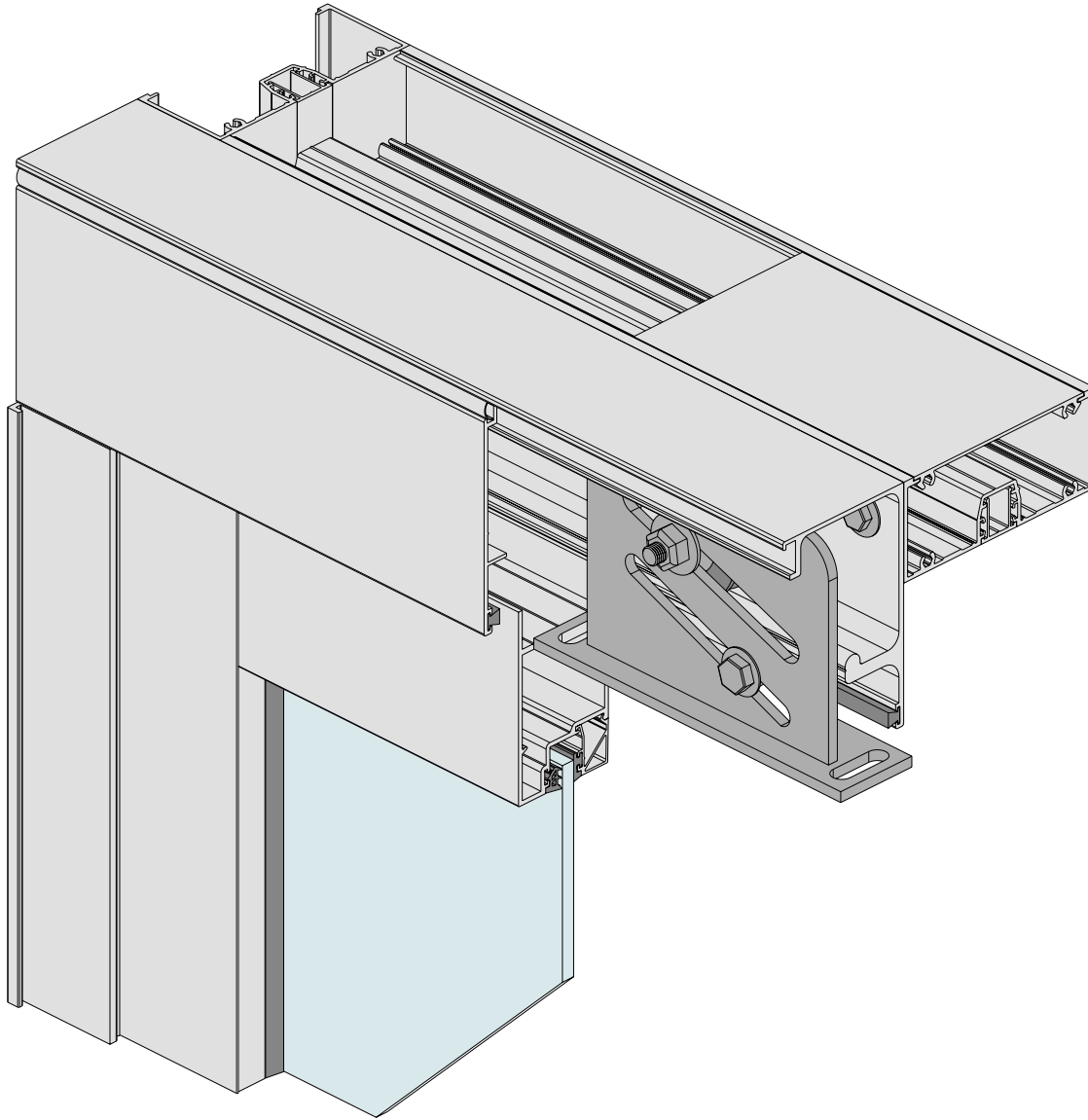


CAD file: DWG
400.SLD.31

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

OVERHEAD SLIDING DOOR - HEAD

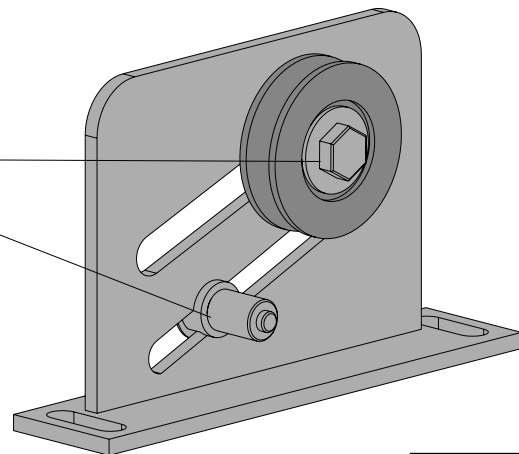


Height of doors can be adjusted using the wheel bolt.

Make sure the anti-lift roller bearing is within 1mm of the underside of running rail. This keeps the rollers on the rail.

Sliding doors can be heavy so make sure the frame head is secured to something substantial that can carry the load. With very heavy doors you may need to get an engineer involved to design a strong enough header.

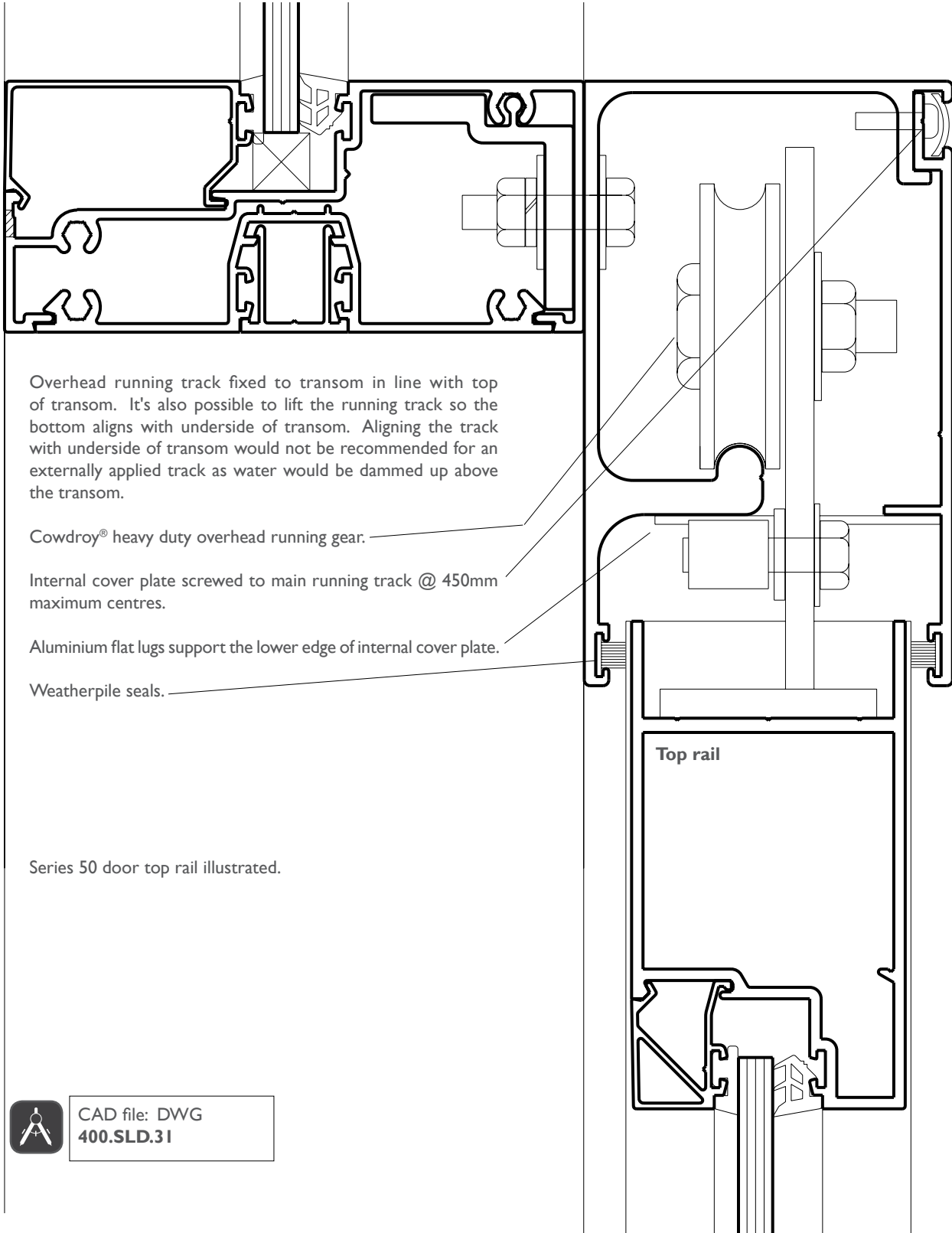
This Cowdroy TT225 roller system will support door panels up to 250Kg.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

OVERHEAD SLIDING DOOR - TRANSOM



Overhead running track fixed to transom in line with top of transom. It's also possible to lift the running track so the bottom aligns with underside of transom. Aligning the track with underside of transom would not be recommended for an externally applied track as water would be dammed up above the transom.

Cowdroy® heavy duty overhead running gear.

Internal cover plate screwed to main running track @ 450mm maximum centres.

Aluminium flat lugs support the lower edge of internal cover plate.

Weatherpile seals.

Series 50 door top rail illustrated.

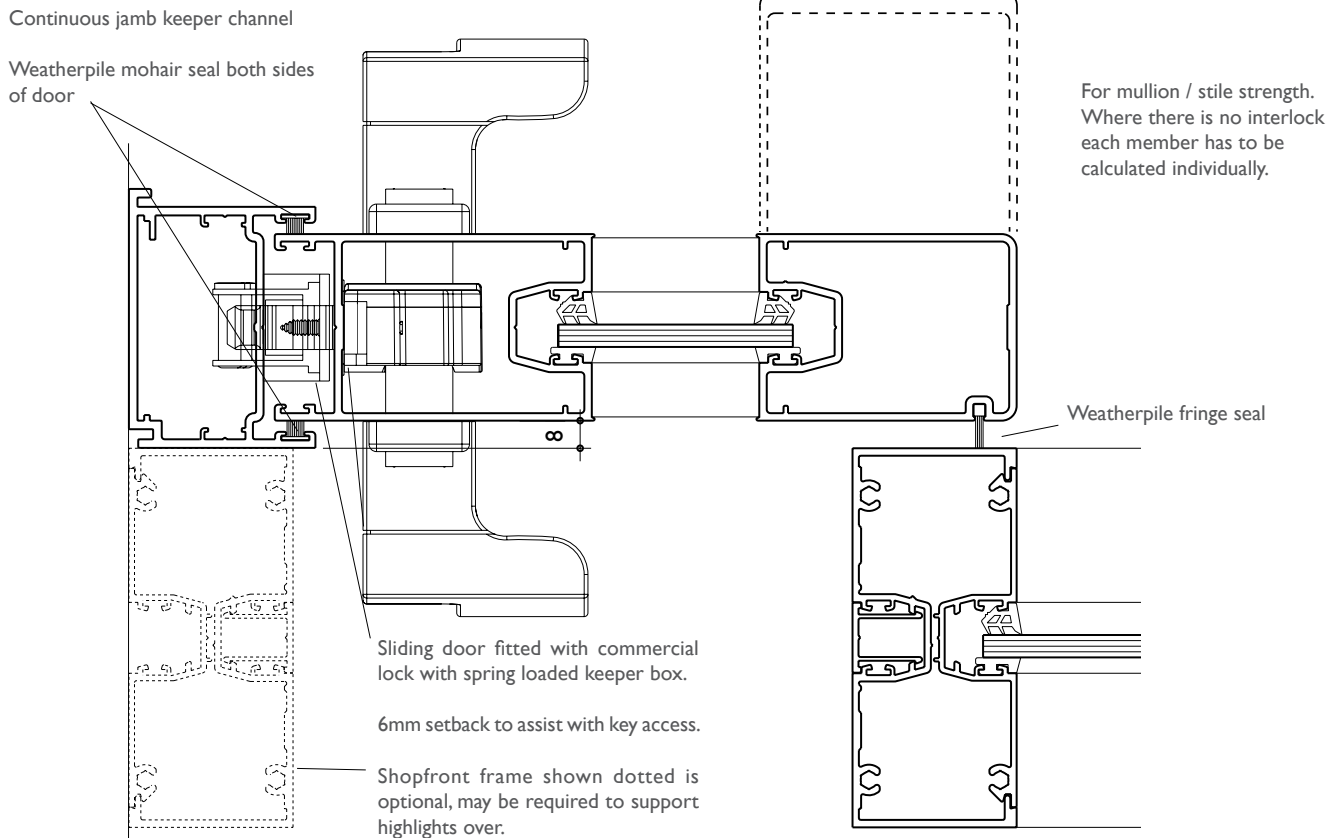


CAD file: DWG
400.SLD.31

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE

OVERHEAD SLIDING DOOR (COWDROY ROLLERS) - HORIZONTAL CROSS SECTION

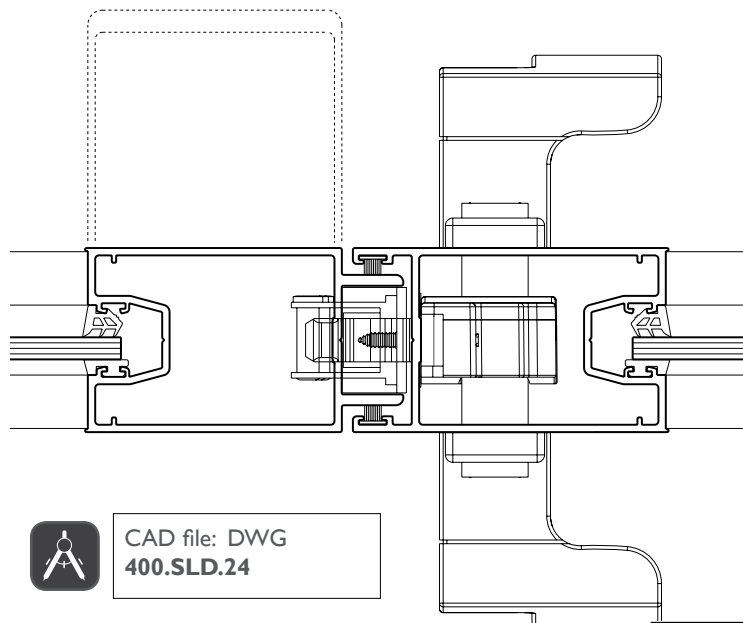


CAD file: DWG
400.SLD.32

Note:

If you are looking for a top hung sliding door to withstand weather resistance refer to I.104

Alternatively if you are looking for a bottom rolling sliding door with weather resistance refer to page I.110

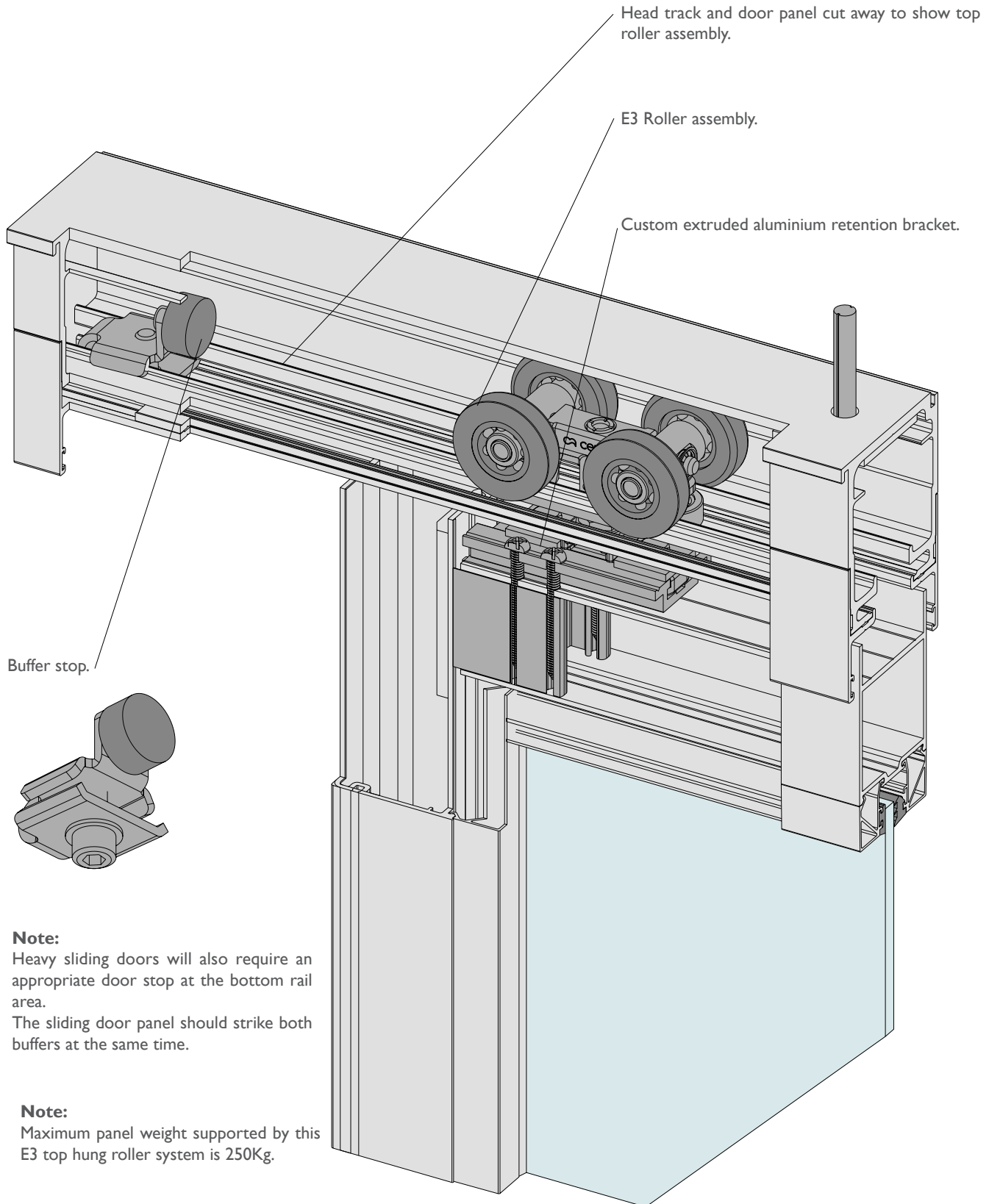


CAD file: DWG
400.SLD.24

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: NOT TO SCALE

E3 TOP HUNG SLIDING DOOR CUT AWAY TO SHOW ROLLERS



Note:
 Heavy sliding doors will also require an appropriate door stop at the bottom rail area.
 The sliding door panel should strike both buffers at the same time.

Note:
 Maximum panel weight supported by this E3 top hung roller system is 250Kg.

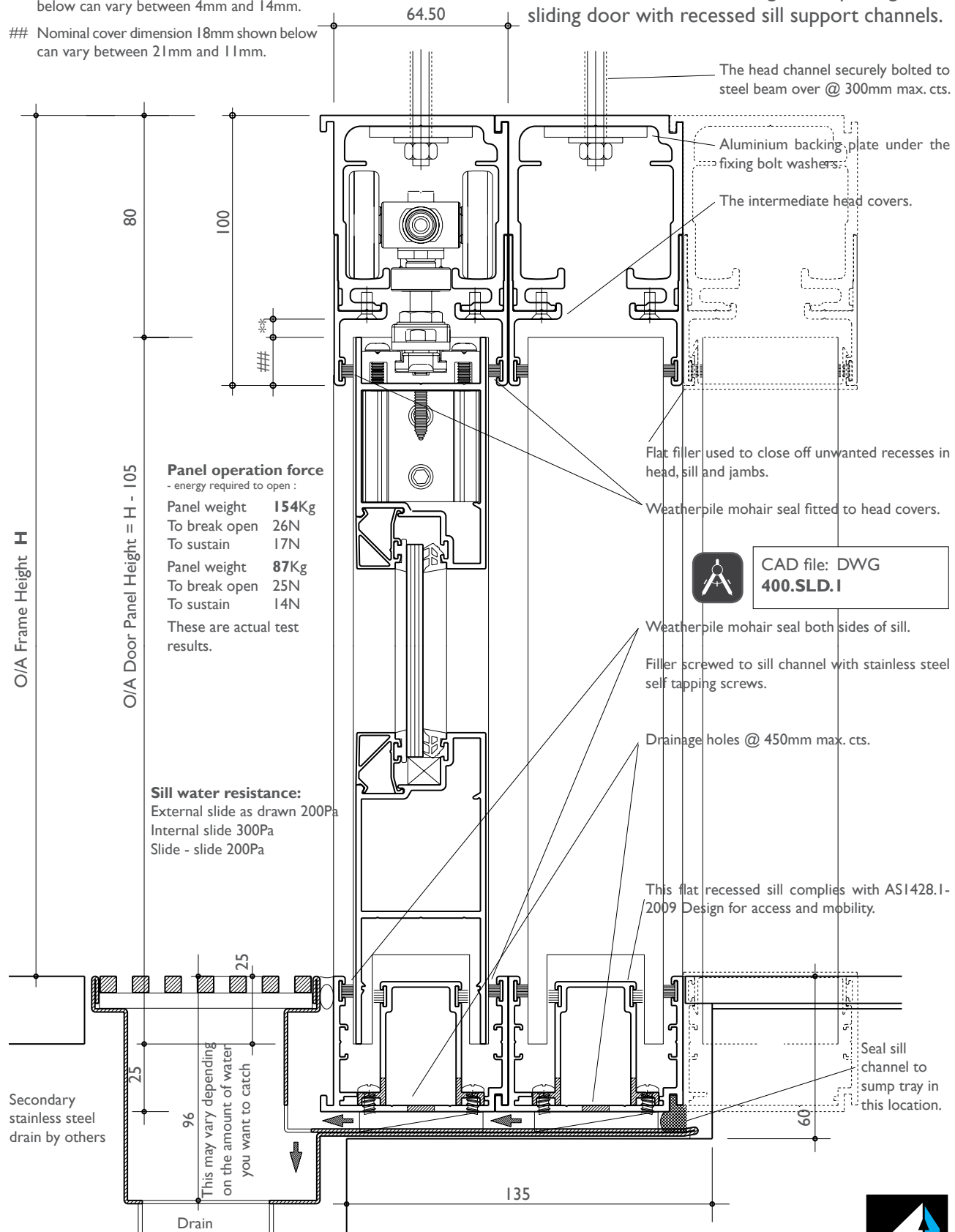
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

VERTICAL CROSS SECTION THROUGH E3 TOP HUNG SLIDING DOOR

** Nominal clearance dimension 8mm shown below can vary between 4mm and 14mm.
Nominal cover dimension 18mm shown below can vary between 21mm and 11mm.

Vertical cross section through E3 top hung sliding door with recessed sill support channels.

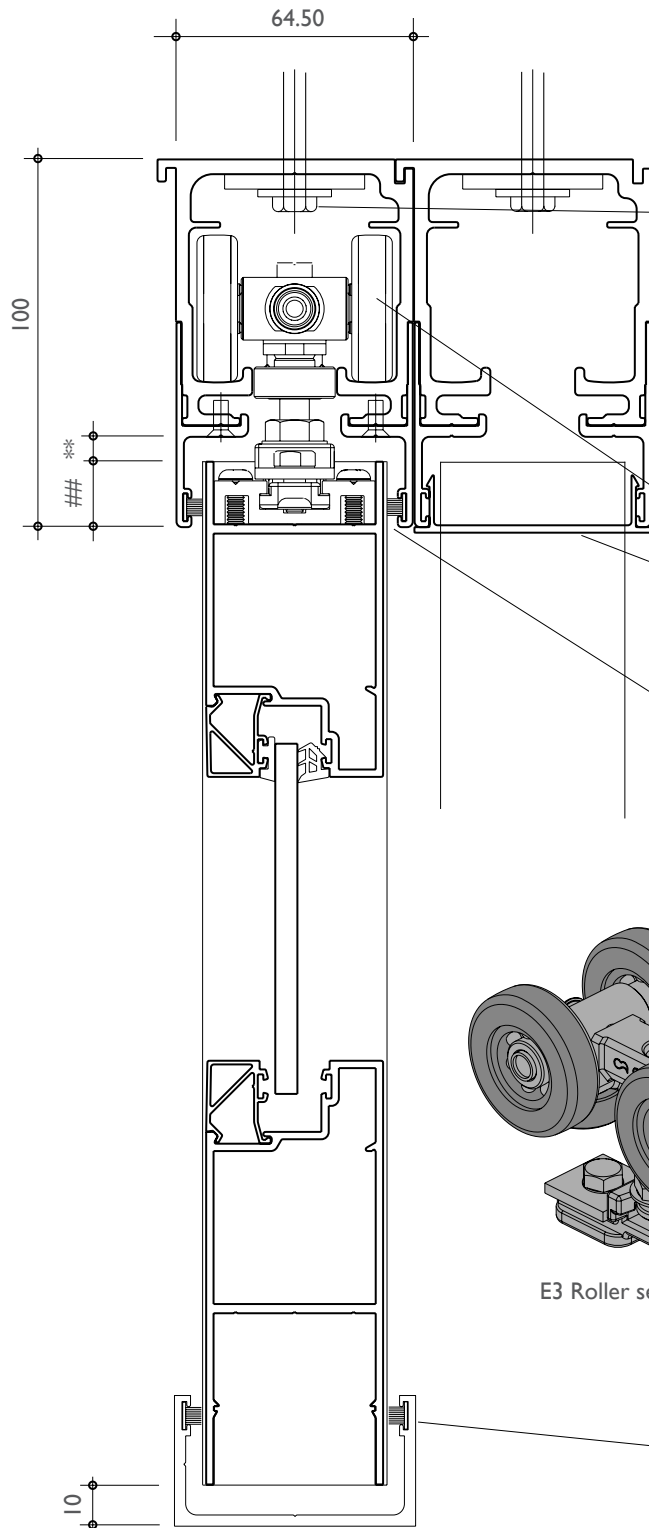


Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

VERTICAL CROSS SECTION THROUGH E3 TOP HUNG SLIDING DOOR

Flat sill - no water resistance.



CAD file: DWG
400.SLD.I

The E3 track can be stacked as shown left. The gap between panels (14.60mm) suits the interlocking meeting stiles shown on a later page.

Bolt the head running rail to support with M8 Bolts @ 600mm max. cts. The support section (steel beam) has to be capable of supporting the weight of the door panels, with a maximum allowable deflection under load of 3mm.

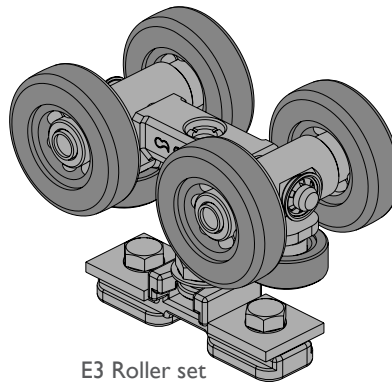
E3 top hung sliding assembly roller assembly.

Unwanted recesses in head track can be closed off with the flat filler.

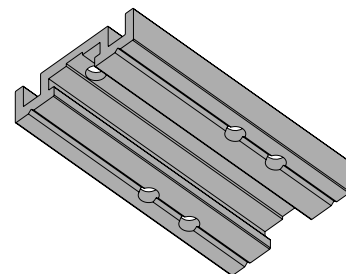
Weatherpile seal.

** Nominal clearance dimension 8mm shown above can vary between 4mm and 14mm.

Nominal cover dimension 17mm shown above can vary between 21mm and 11mm.



E3 Roller set



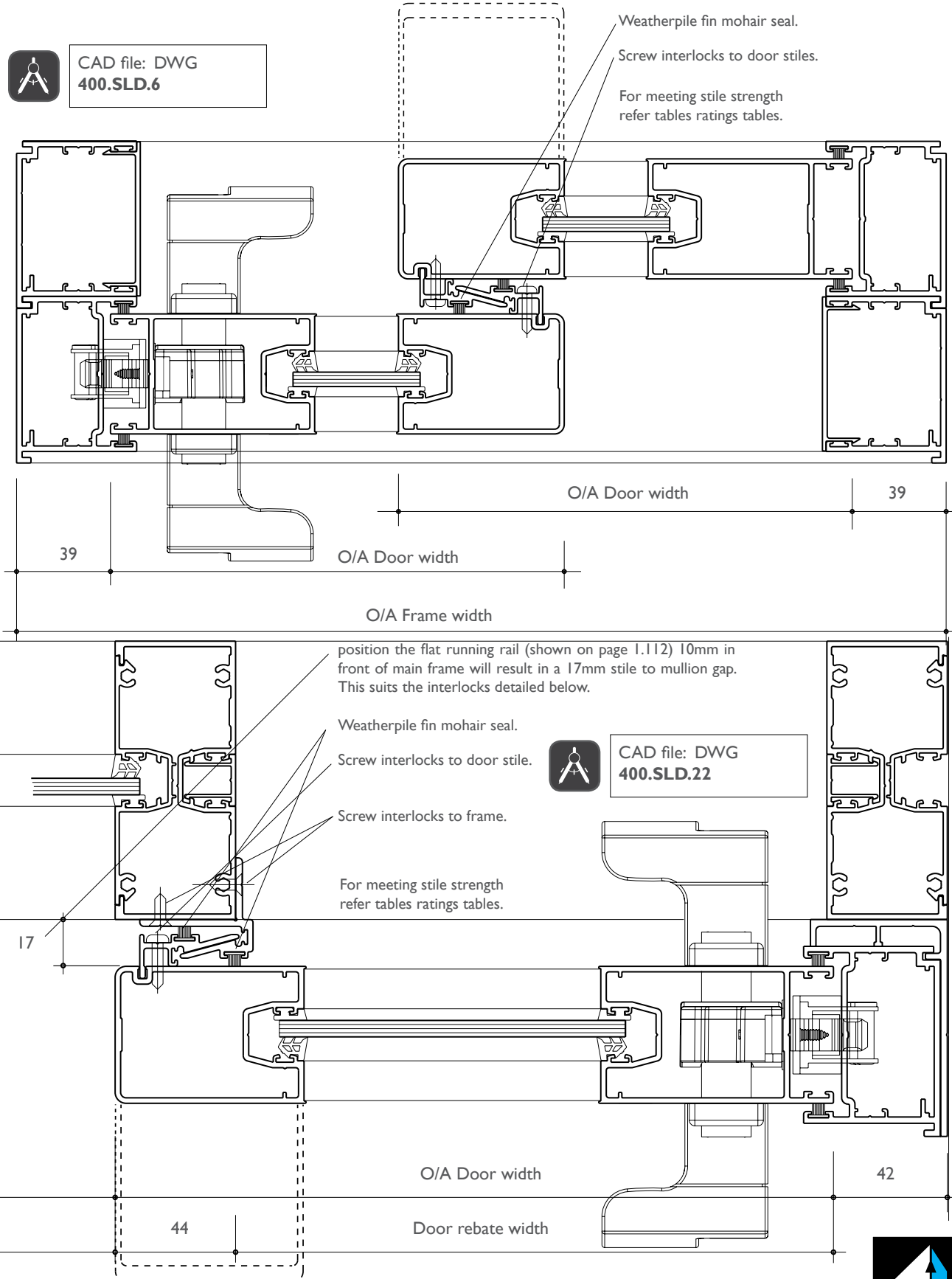
Extruded aluminium retention bracket.

Use 75mm length of edge guide, fitted with weatherpile seals.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

HORIZONTAL CROSS SECTION THROUGH BOTTOM ROLLING AND E3 TOP HUNG SLIDING DOORS



Series 400 CentreGLAZE™ Framing

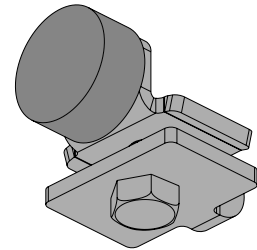
DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

OVERHEAD SLIDING DOOR - LIGHT WEIGHT

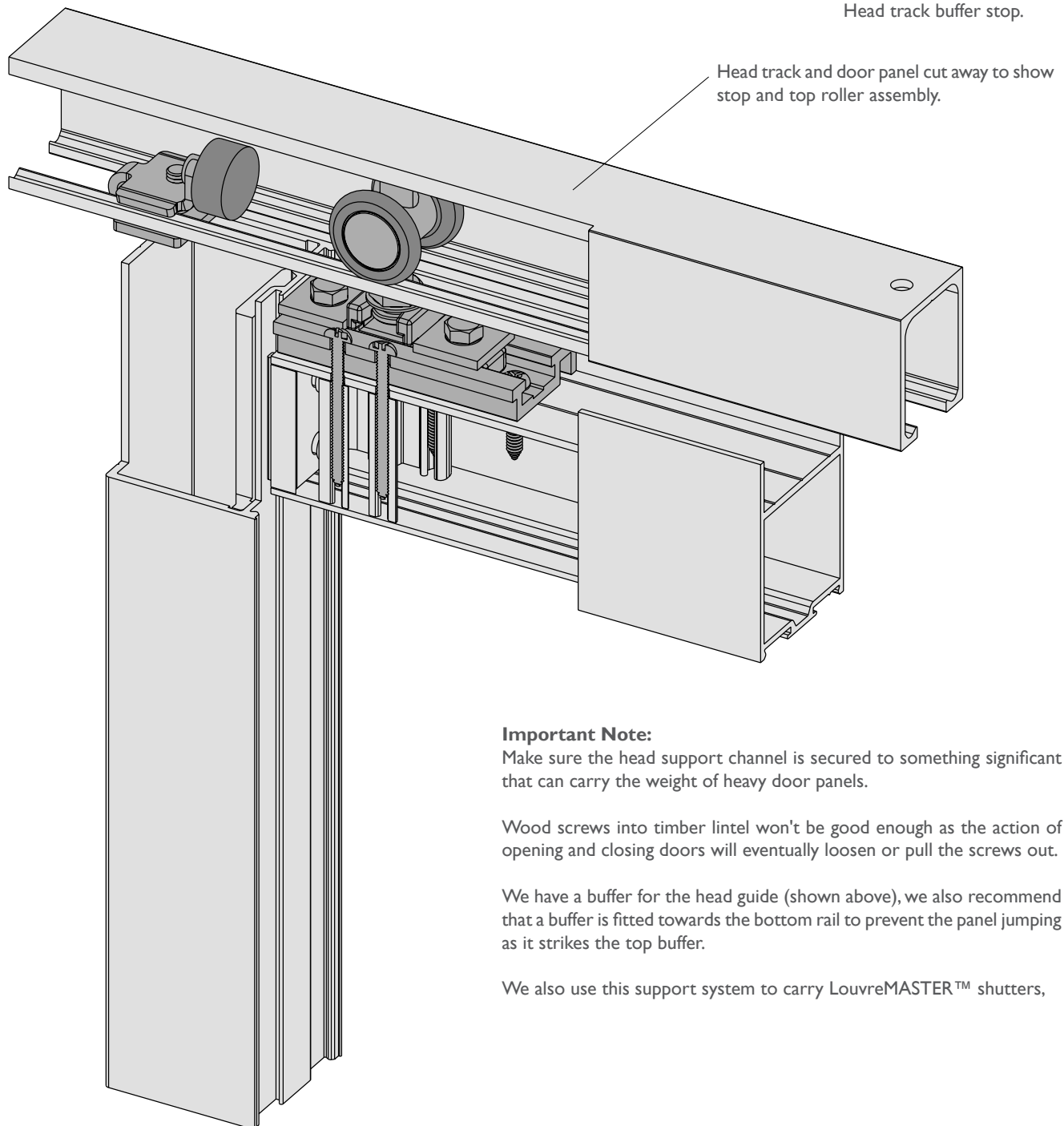
This light weight system is designed to support door panels up to 100kg.

Ideal for entry and internal doors.

Series 50 and 52 doors can be used as the top rollers are screwed down through custom retention bracket into the door corner stake



Head track buffer stop.



Head track and door panel cut away to show stop and top roller assembly.

Important Note:

Make sure the head support channel is secured to something significant that can carry the weight of heavy door panels.

Wood screws into timber lintel won't be good enough as the action of opening and closing doors will eventually loosen or pull the screws out.

We have a buffer for the head guide (shown above), we also recommend that a buffer is fitted towards the bottom rail to prevent the panel jumping as it strikes the top buffer.

We also use this support system to carry LouvreMASTER™ shutters,

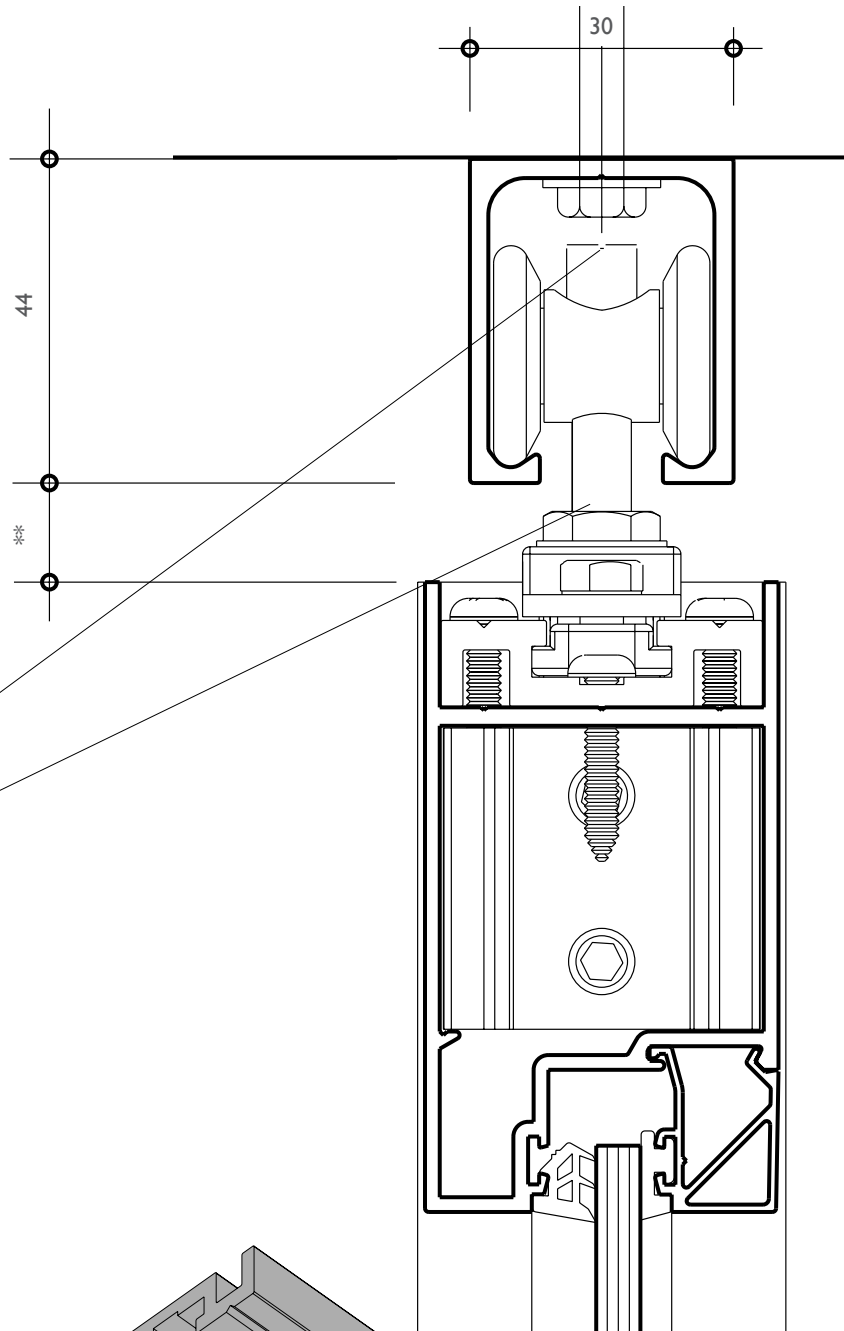
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

OVERHEAD SLIDING DOOR - HEAD



CAD file: DWG
400.SLD.I



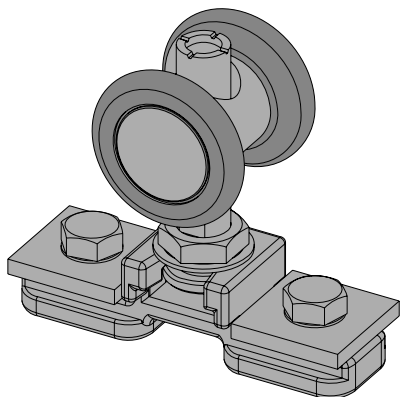
Bolt the head running rail to support @ 450mm max. cts. The support section has to be capable of supporting the weight of the door panels.

Centor E2 top hung sliding roller assembly.

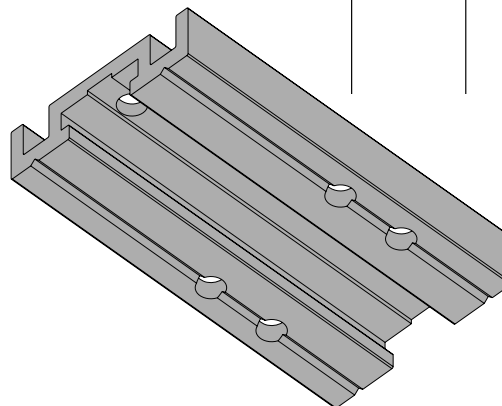
Extruded aluminium retention bracket.

** Nominal dimension 14mm. Dimension can vary between 11mm and 20mm.

Maximum panel weight that can be supported by this roller is 100kg.



Roller assembly

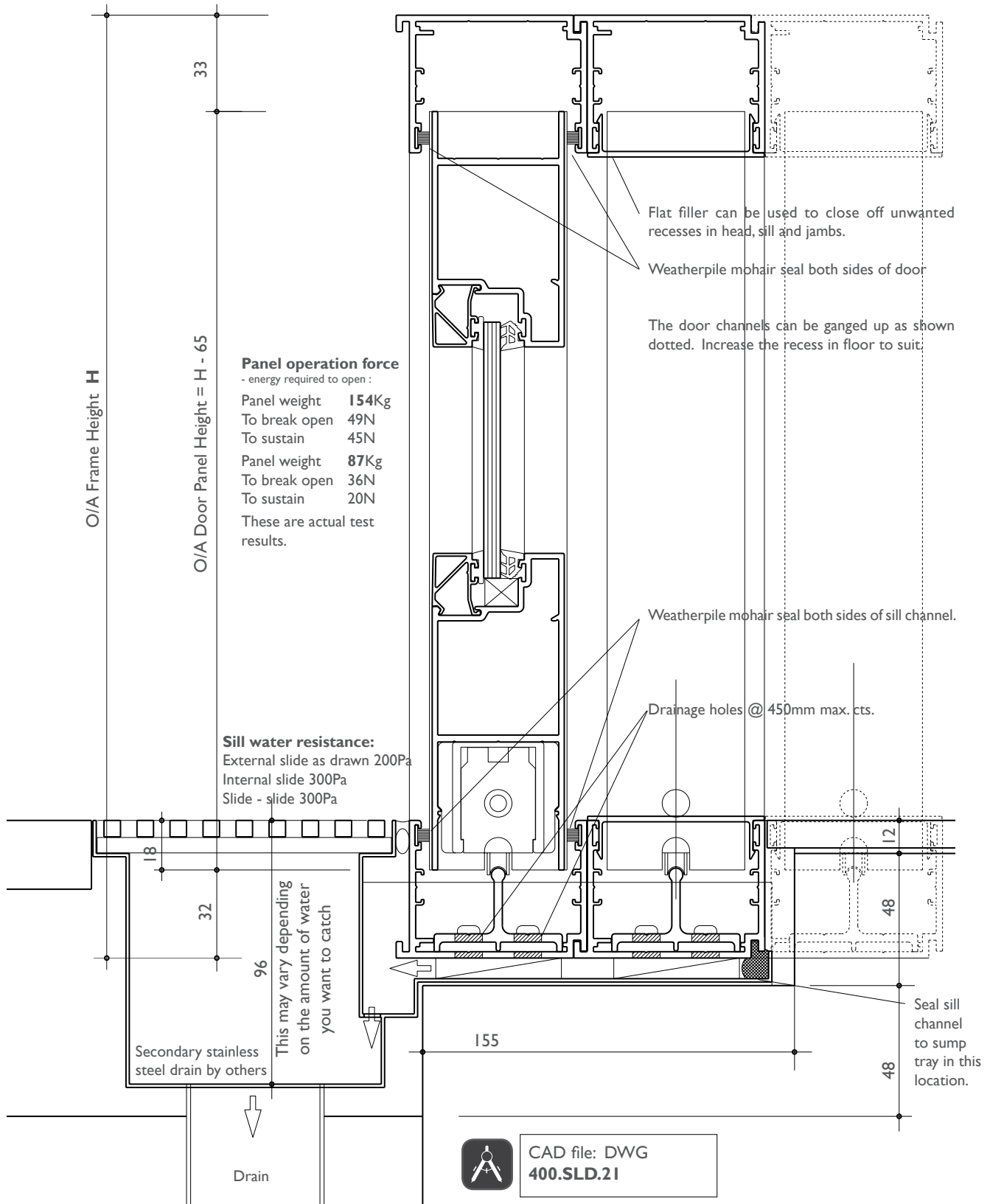


Extruded aluminium retention bracket

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE

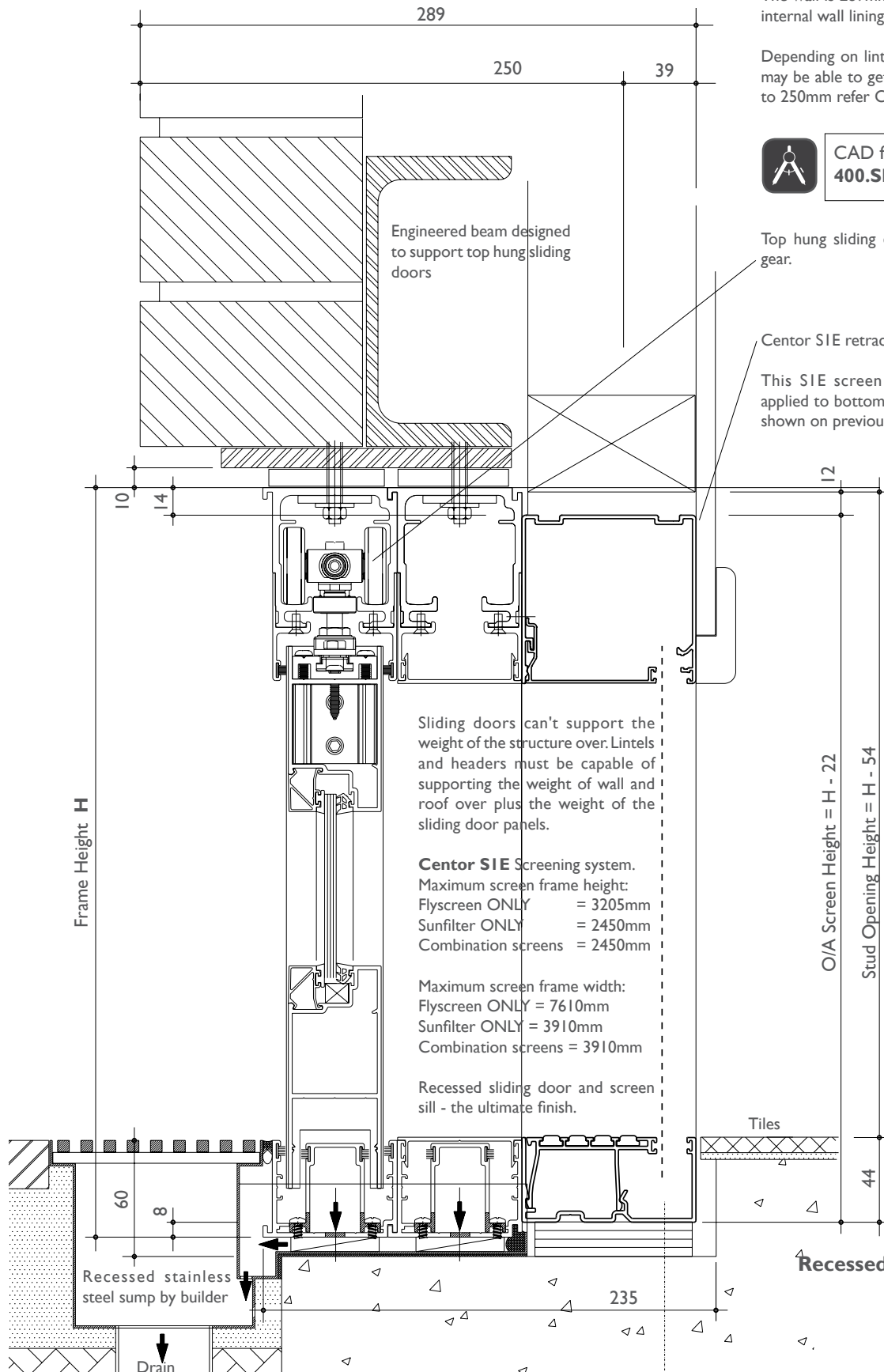
BOTTOM ROLLING SLIDING DOOR - RECESSED SILL VERTICAL CROSS SECTION



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

RETRACTABLE SCREEN BEHIND SLIDING DOOR



Important Note:

The wall is 289mm thick excluding the internal wall lining.

Depending on lintel requirements you may be able to get wall thickness back to 250mm refer CAD drawing.



CAD file: DWG
400.SLD.4

Top hung sliding door running on E3 gear.

Centor SIE retractable screen.

This SIE screen detail can also be applied to bottom rolling sliding doors shown on previous page.

Sliding doors can't support the weight of the structure over. Lintels and headers must be capable of supporting the weight of wall and roof over plus the weight of the sliding door panels.

Centor SIE Screening system.

Maximum screen frame height:
Flyscreen ONLY = 3205mm
Sunfilter ONLY = 2450mm
Combination screens = 2450mm

Maximum screen frame width:
Flyscreen ONLY = 7610mm
Sunfilter ONLY = 3910mm
Combination screens = 3910mm

Recessed sliding door and screen sill - the ultimate finish.

O/A Screen Height = H - 22
Stud Opening Height = H - 54

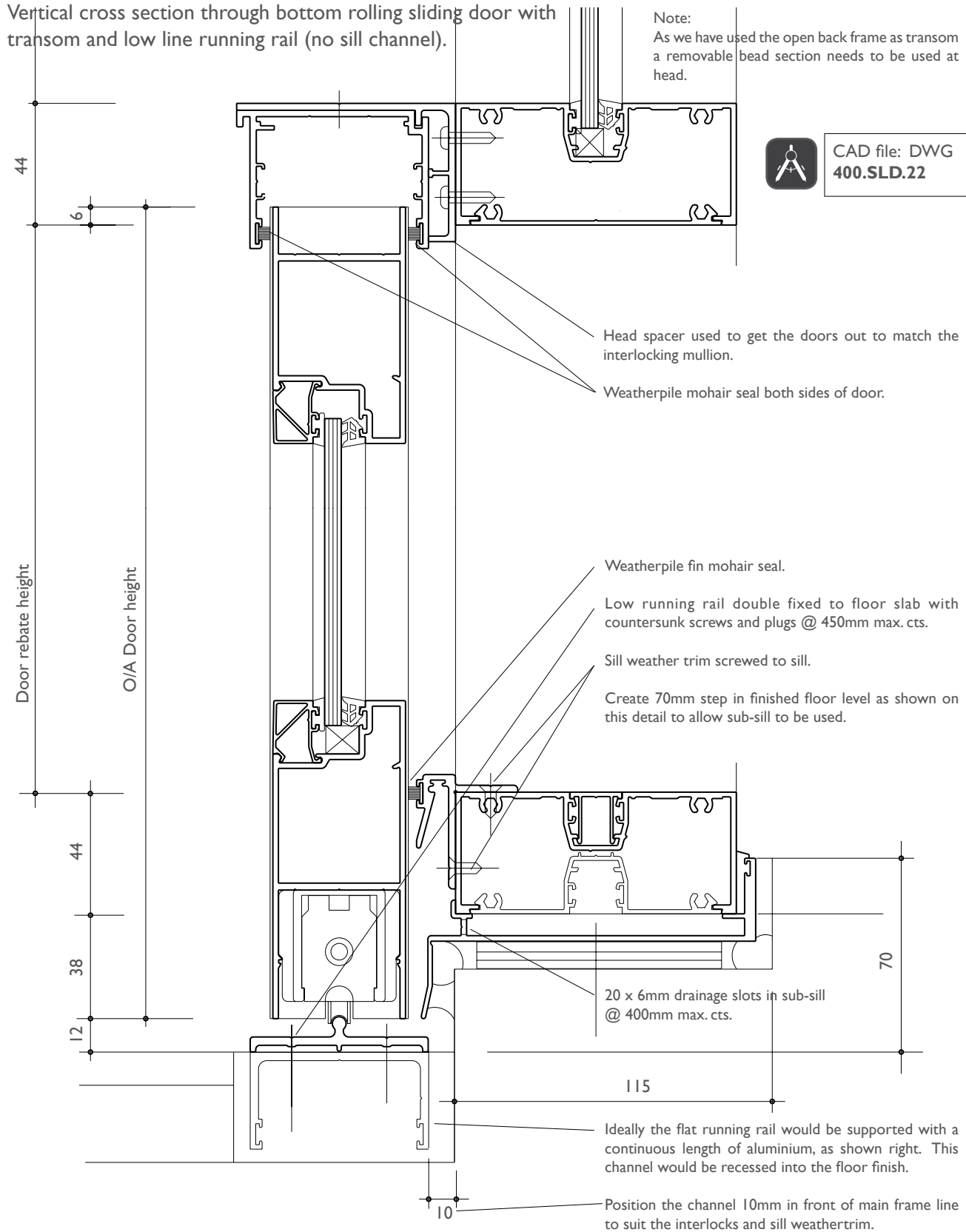
Recessed Sill Detail

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: HALF FULL SIZE

BOTTOM ROLLING SLIDING DOOR - TRANSOM

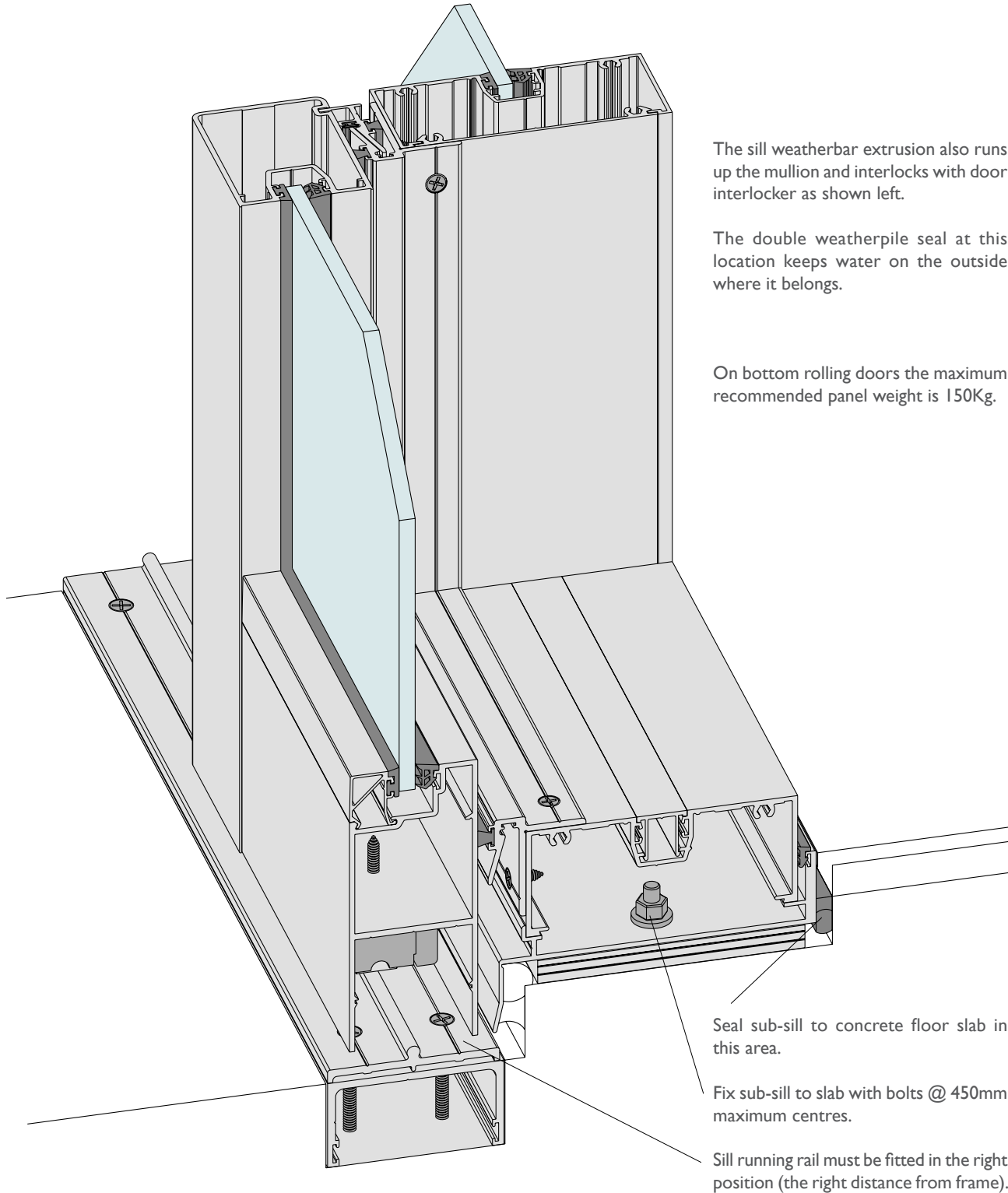
Vertical cross section through bottom rolling sliding door with transom and low line running rail (no sill channel).



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

BOTTOM ROLLING SLIDING DOOR - SILL



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

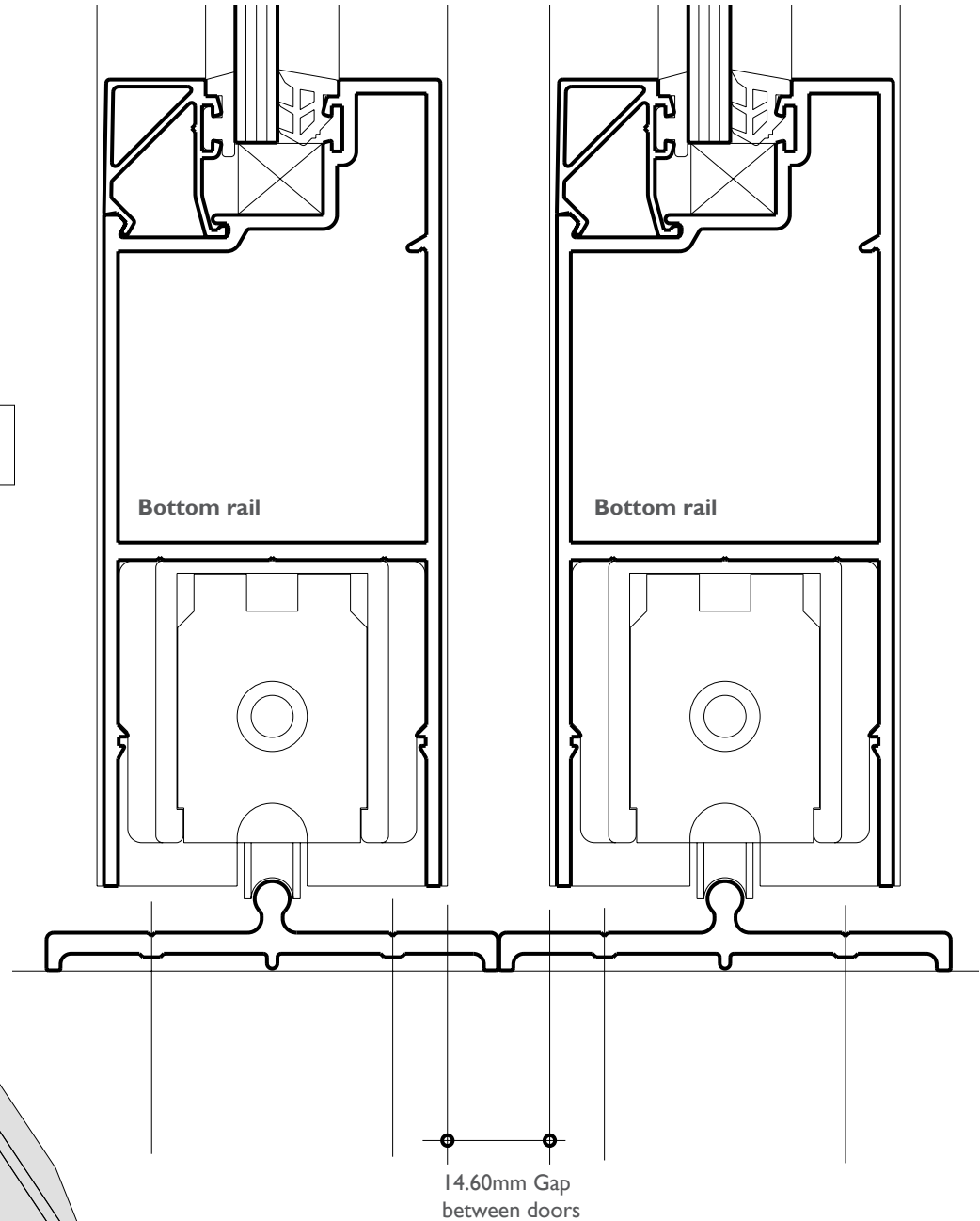
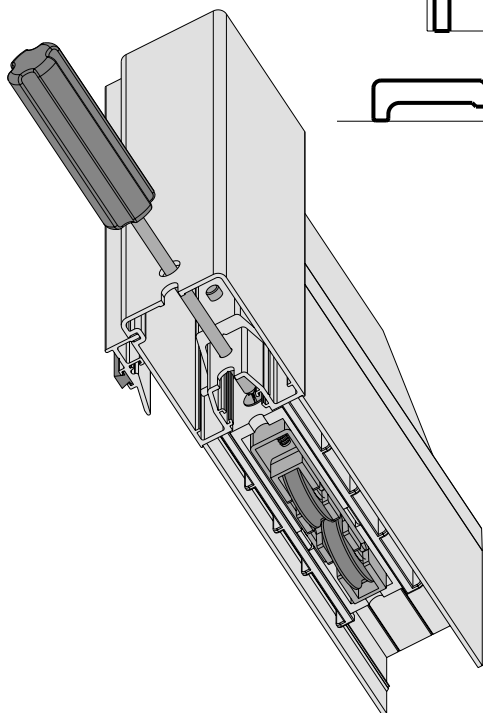
BOTTOM ROLLING SLIDING DOOR - FLAT SILL (no water resistance)

Series 50 door bottom rail illustrated.



CAD file: DWG
 400.SLD.22

On bottom rolling doors the maximum recommended panel weight is 150Kg.



The flat running rail has been designed so that when rails touch (as shown above) doors are positioned at the right gap space to suit interlocks shown on page 1.118.

Support door panel weight before adjusting the height of roller carriages.

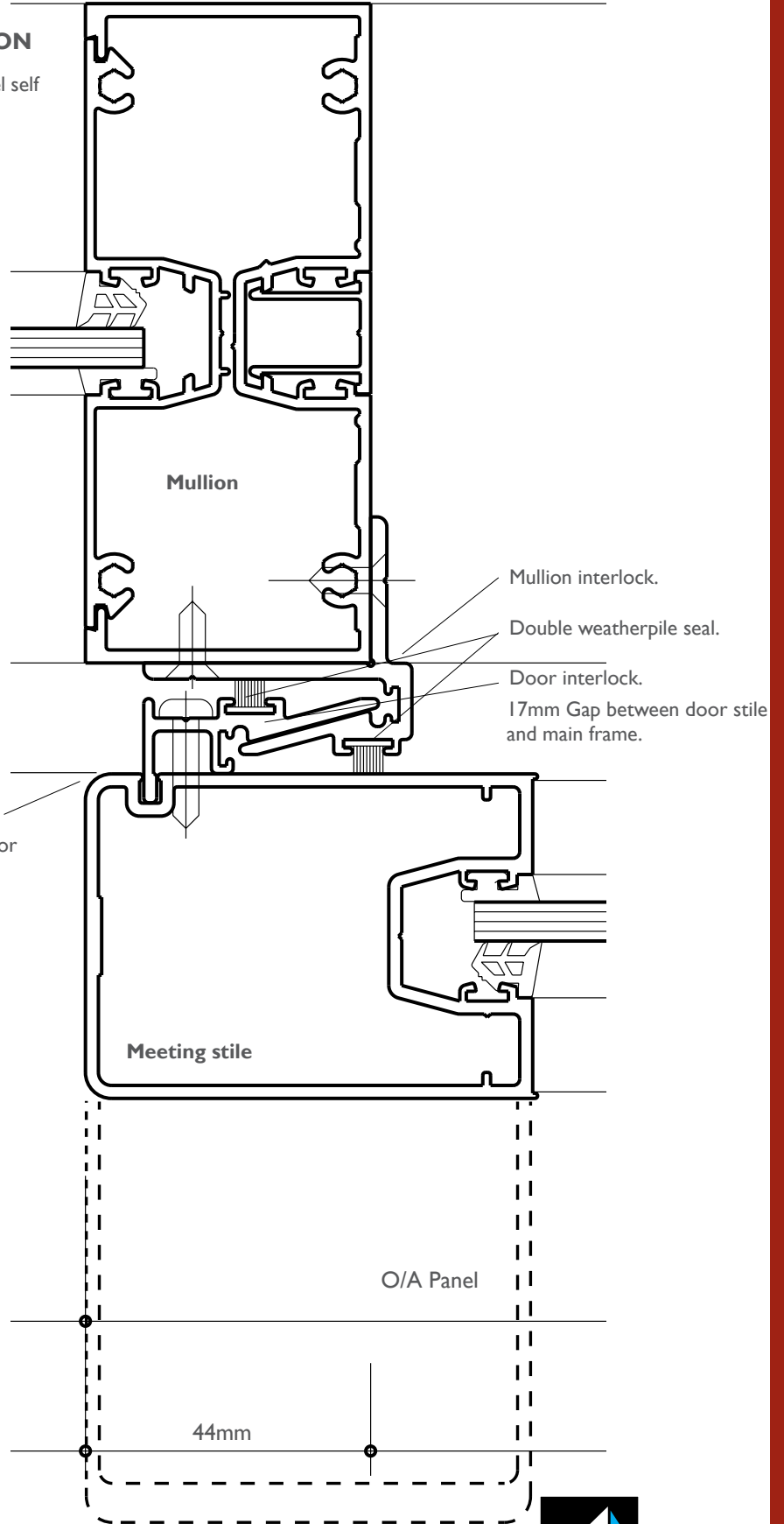
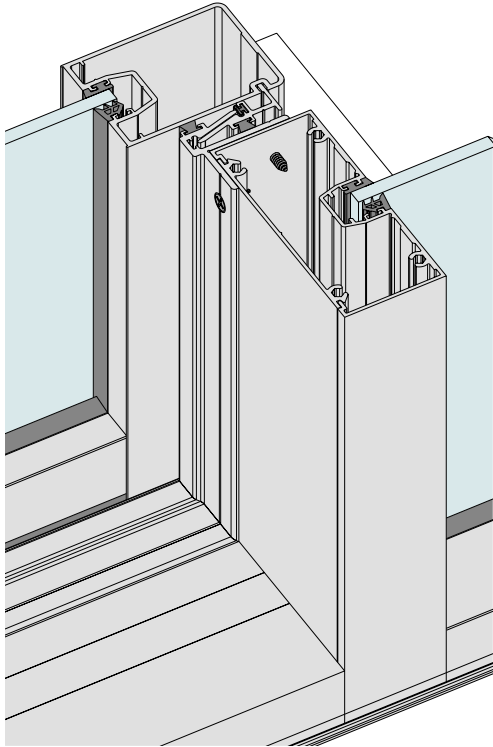
Wheel carriage can be fitted/removed without having to disassemble door panels.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

BOTTOM ROLLING & E3 TOP HUNG SLIDING DOOR - INTERLOCKING MULLION

Interlocks screwed to mullion and stile with stainless steel self tapping screws.



4mm Door corner radius.

Heavy duty meeting stile shown dotted, refer Pascal rating table for the appropriate strength combination.

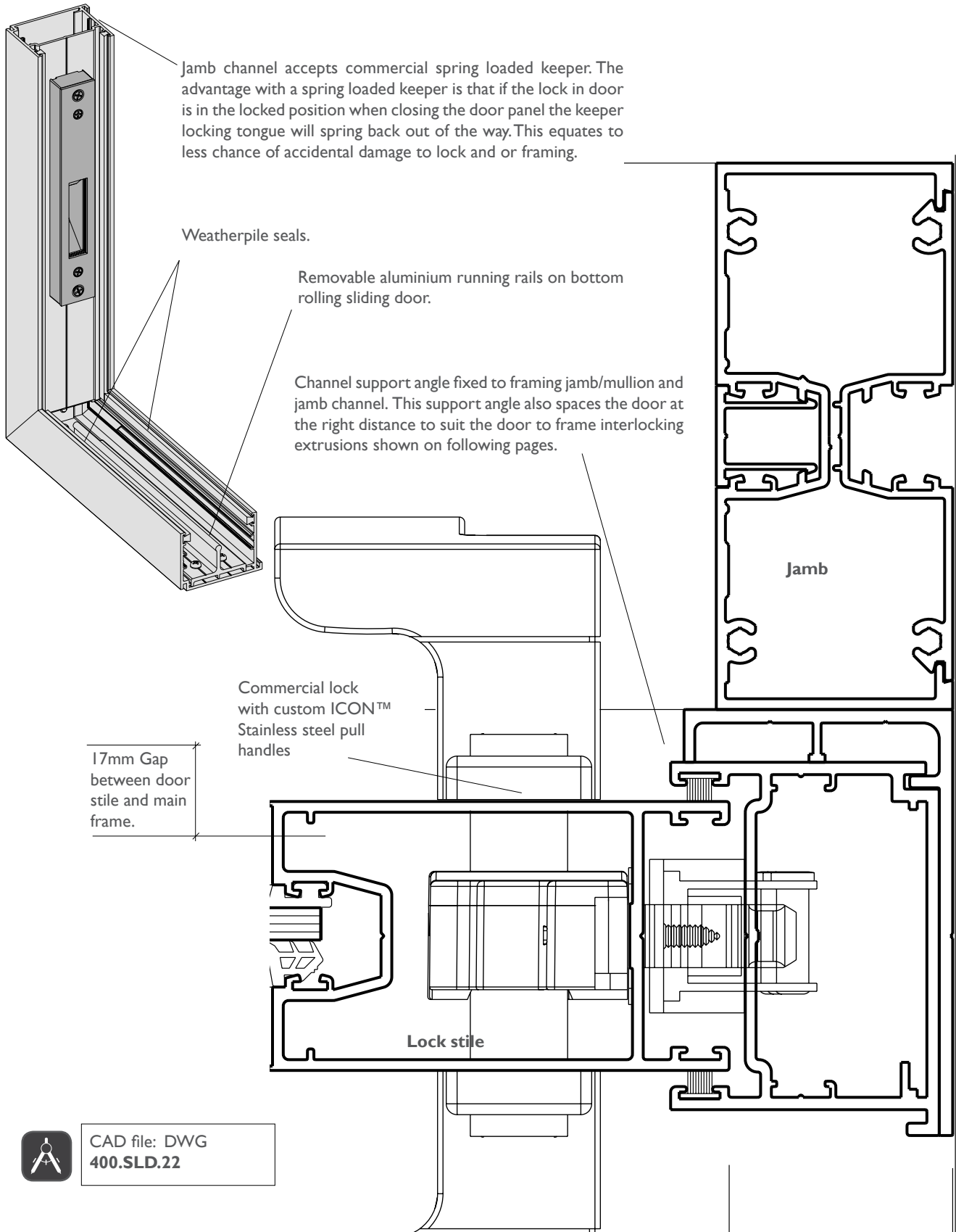


CAD file: DWG
400.SLD.22

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

BOTTOM ROLLING & E3 TOP HUNG SLIDING DOOR - LOCK SIDE JAMB

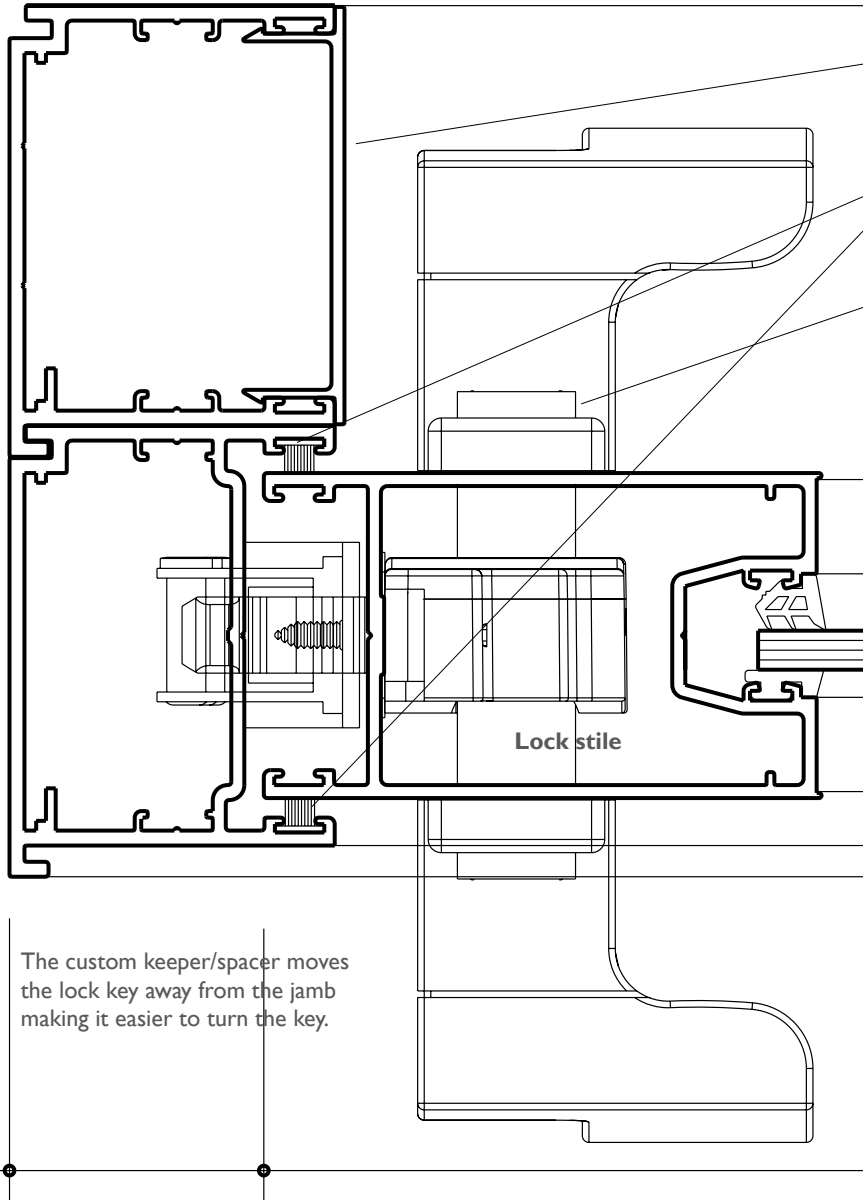


CAD file: DWG
 400.SLD.22

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

BOTTOM ROLLING & E3 TOP HUNG SLIDING DOOR - LOCK SIDE JAMB



Flat fillers close off all unwanted recesses, this significantly improves appearance and weather resistance.

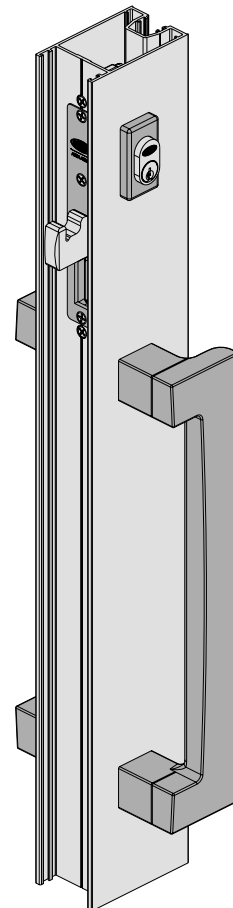
Weatherpile seals.

Commercial spring loaded keeper.

Double cylinder lock illustrated.

Series 50 door panel illustrated.

The custom keeper/spacer moves the lock key away from the jamb making it easier to turn the key.



Custom ICON™ stainless steel pull handles shown right.

We also offer a slightly small ANDO™ stainless steel pull handle.



CAD file: DWG
400.SLD.23

This door has been designed to accept heavy duty commercial lock with spring loaded keeper.

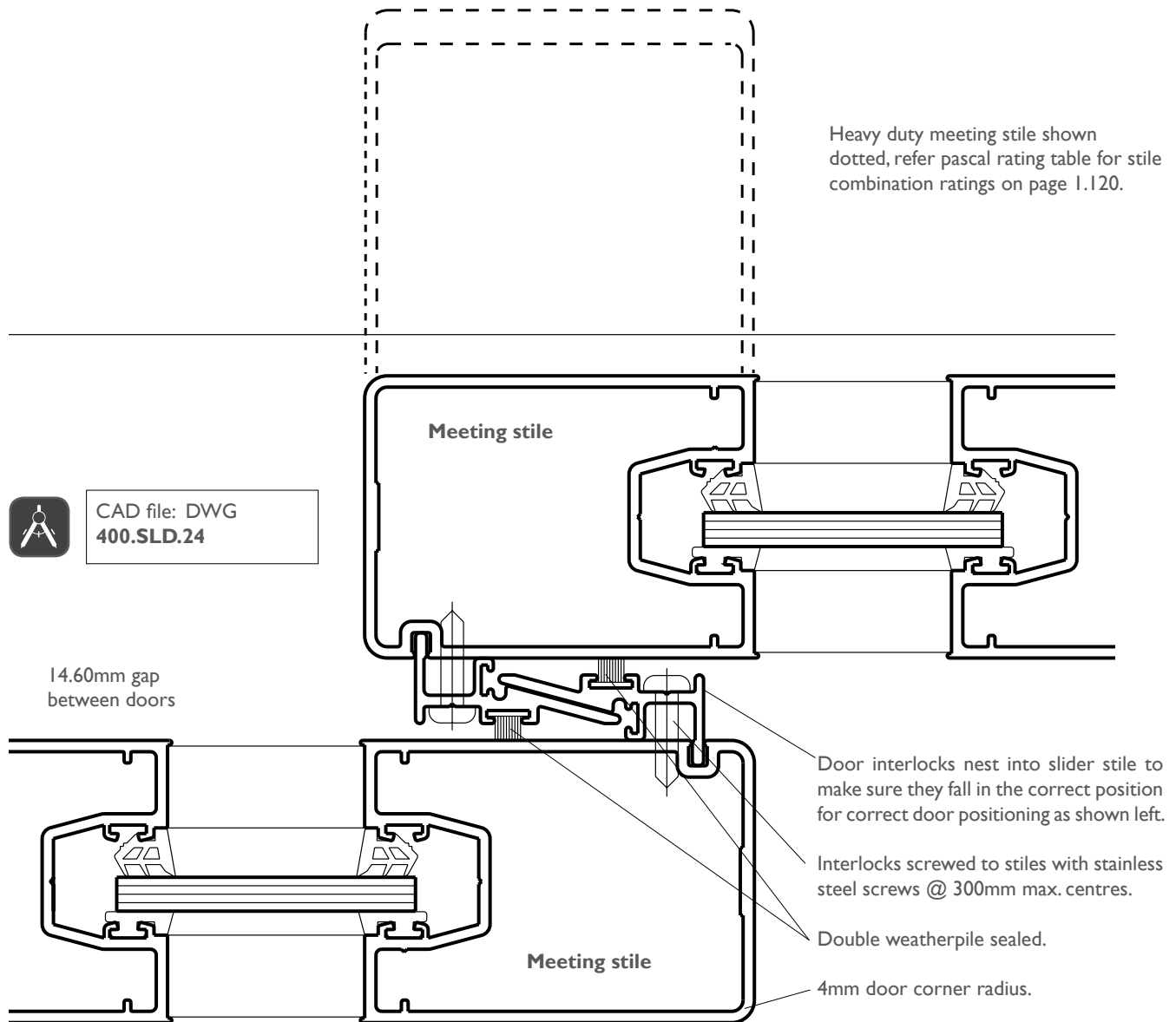
On heavy sliding doors we recommend ICON™ or ANDO™ stainless steel pull handles.

ICON™ pulls illustrated above.

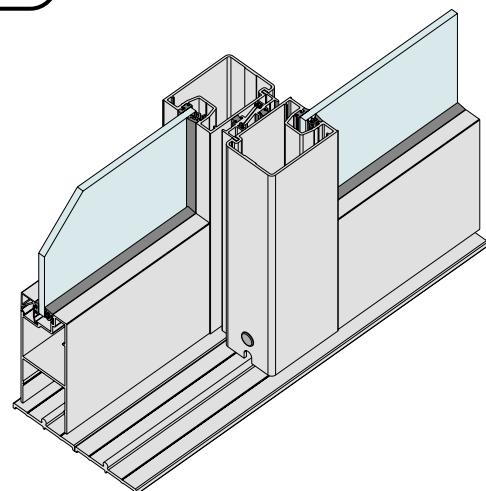
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

BOTTOM ROLLING & E3 TOP HUNG SLIDING DOOR - MEETING STILES



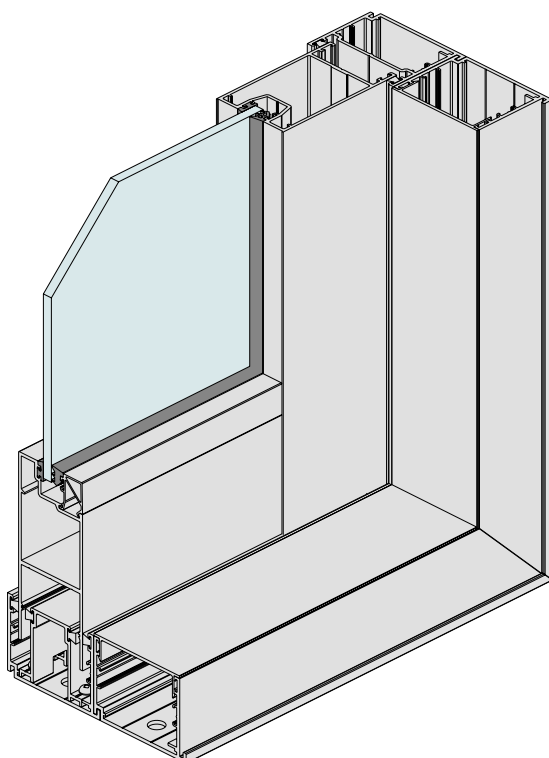
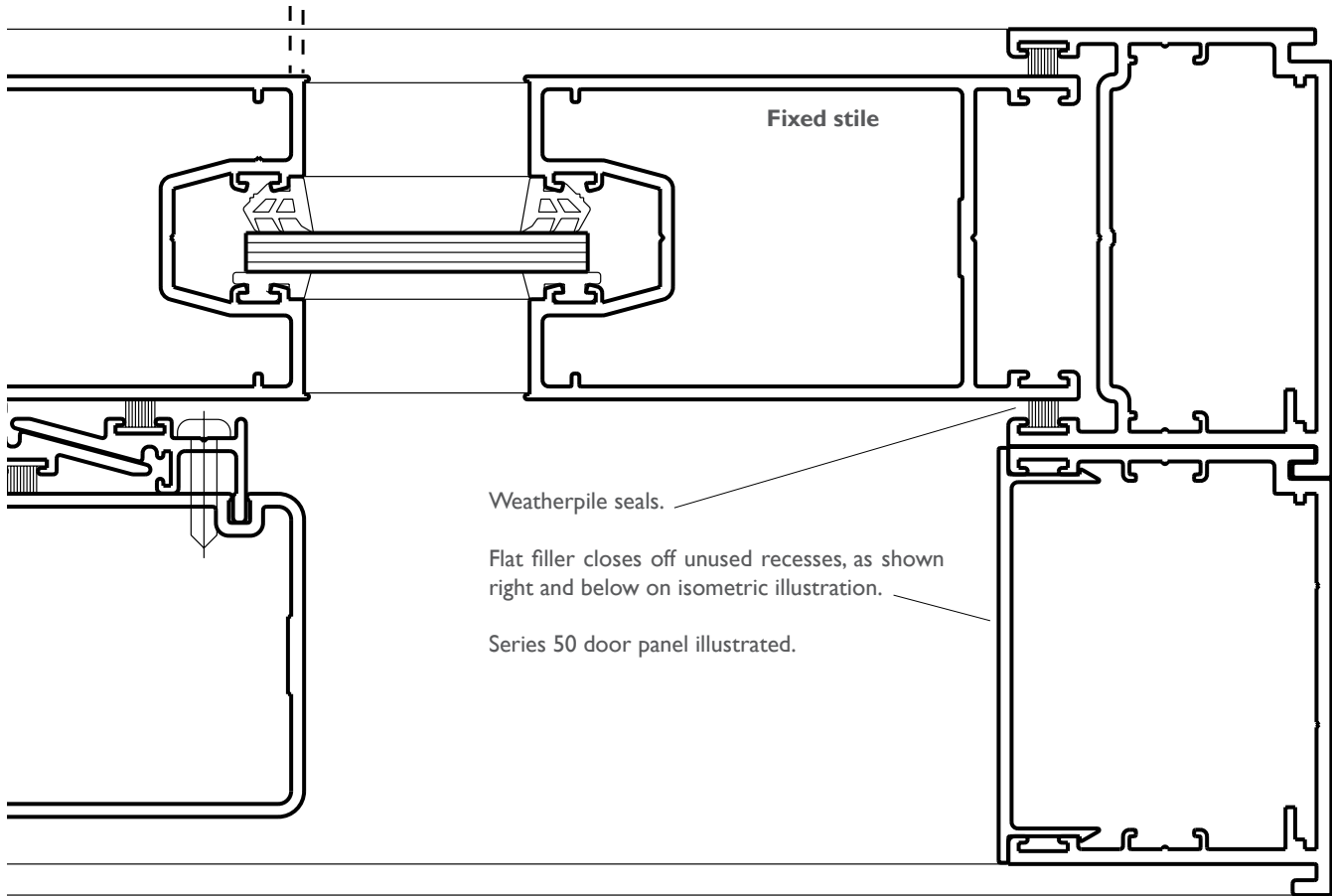
The flat running rail has been designed so that when rails touch (as shown below) doors are positioned at the right gap space to suit door to door interlocks shown above.



Series 400
CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

BOTTOM ROLLING & E3 TOP HUNG SLIDING DOOR - FIXED SIDE JAMB



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Perimeter channel has been mitred. Fitted with gussets and spigots at corners keep the joints tight and waterproof.

Alternative:
Sill corner for top hung E3 sliding door.

The sill infill reduces the gap in track to 13mm when doors are in the open position in accordance with AS 1428.1-2009 Design for access and mobility.

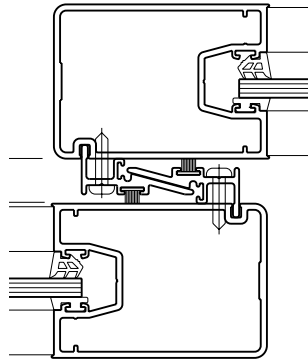


CAD file: DWG
400.SLD.24

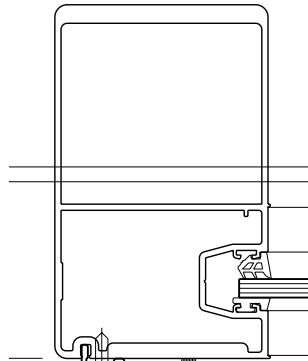
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

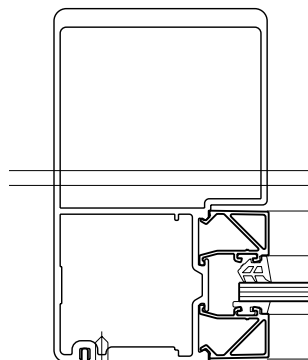
SLIDING DOOR STRENGTH



81513 with 81513
lxx = 414 x 10³ mm⁴



81513 with 81514
lxx = 2833 x 10³ mm⁴



81547 with 81548
lxx = 2338 x 10³ mm⁴

Panel Height mm	Panel Width mm	Series 50 & 51 Light 81513 - 81513		Series 50 & 51 Light 81513 - 81513		Series 52 Light 81547 - 81547		Series 52 Light 81547 - 81547	
		Deflection I/180		Deflection I/250		Deflection I/180		Deflection I/250	
		S	U	S	U	S	U	S	U
2100	900	1576	3619	1135	3619	1218	2771	877	2771
2100	1000	1444	3307	1040	3307	1116	2533	804	2533
2100	1100	1339	3059	964	3059	1035	2343	745	2343
2100	1200	1255	2859	904	2859	970	2189		
2100	1300	1187	2696	855	2696	918	2065		
2100	1400	1132	2564	815	2564	875	1963		
2100	1500	1088	2456	783	2456	841	1881		
2400	900	1037	2729	747	2729	802	2090		
2400	1000	946	2485			731	1903		
2400	1100	873	2288						
2400	1200	814	2128						
2400	1300	765	1996						
2400	1400	725	1886						
2400	1500								
2700	900	720	2134						
2700	1000								
2700	1100								
2700	1200								
2700	1300								
2700	1400								
2700	1500								

Wind Ratings (Pa) Light meeting stile combinations.

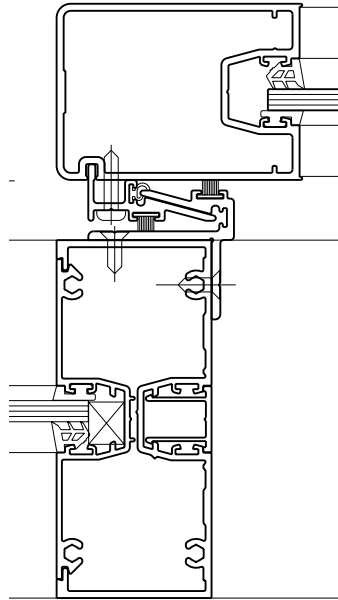
Panel Height mm	Panel Width mm	Series 50 & 51 Light 81513 - 81514		Series 50 & 51 Light 81513 - 81514		Series 52 Light 81547 - 81548		Series 52 Light 81547 - 81548	
		Deflection I/180		Deflection I/250		Deflection I/180		Deflection I/250	
		S	U	S	U	S	U	S	U
2400	900	3333	5000	3333	5000	3333	5000	3333	5000
2400	1000	3333	5000	3333	5000	3333	5000	3333	5000
2400	1100	3333	5000	3333	5000	3333	5000	3333	5000
2400	1200	3333	5000	3333	5000	3171	4757	3171	4757
2400	1300	3333	5000	3333	5000	2974	4462	2974	4462
2400	1400	3333	5000	3333	5000	2811	4216	2811	4216
2400	1500	3333	5000	3333	5000	2674	4011	2674	4011
2700	900	3333	5000	3333	5000	3181	4771	2926	4771
2700	1000	3280	5000	3225	5000	2889	4333	2662	4333
2700	1100	3280	4920	2967	4920	2653	3979	2449	3979
2700	1200	3041	4561	2756	4561	2459	3688	2274	3688
2700	1300	2842	4262	2581	4262	2298	3447	2130	3447
2700	1400	2674	4012	2434	4012	2163	3244	2009	3244
2700	1500	2533	3800	2310	3800	2048	3073	1907	3073
3000	900	3163	4744	2563	4744	2558	3836	2115	3836
3000	1000	2867	4301	2326	4301	2319	3478	1920	3478
3000	1100	2628	3942	2135	3942	2125	3187	1762	3187
3000	1200	2430	3646	1978	3646	1965	2948	1632	2948
3000	1300	2266	3398	1847	3398	1832	2748	1524	2748
3000	1400	2127	3190	1737	3190	1720	2579	1433	2579
3000	1500	2008	3012	1643	3012	1624	2436	1356	2436

Wind Ratings (Pa) Heavy meeting stile combinations.

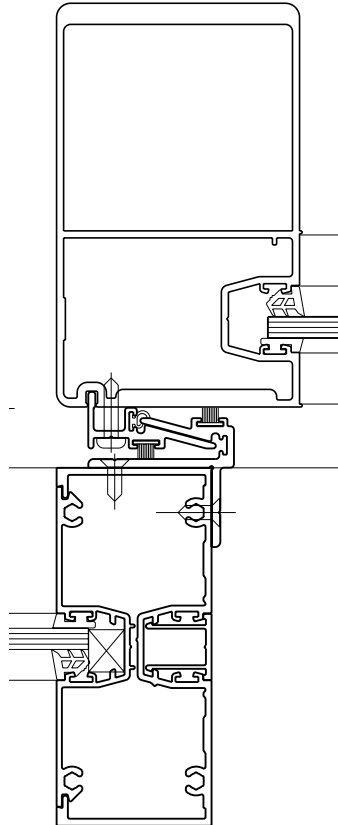
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

SLIDING DOOR STRENGTH



81012 with 81513
 $I_{xx} = 1122 \times 10^3 \text{ mm}^4$



81012 with 81514
 $I_{xx} = 3541 \times 10^3 \text{ mm}^4$

Panel Height mm	Panel Width mm	Series 50 & 51 Light 81012 - 81513		Series 50 & 51 Light 81012 - 81513		Series 52 Light 81012 - 81547		Series 52 Light 81012 - 81547	
		Deflection I/180		Deflection I/250		Deflection I/180		Deflection I/250	
		S	U	S	U	S	U	S	U
2100	900	3289	4933	3075	4933	3151	4727	2946	4727
2100	1000	3006	4509	2818	4509	2880	4320	2700	4320
2100	1100	2781	4171	2614	4171	2664	3996	2504	3996
2100	1200	2599	3898	2450	3898	2490	3734	2347	3734
2100	1300	2451	3676	2317	3676	2348	3522	2220	3522
2100	1400	2330	3495	2210	3495	2232	3349	2117	3349
2100	1500	2232	3348	2123	3348	2139	3208	2034	3208
2400	900	2480	3720	2024	3720	2376	3564	1939	3564
2400	1000	2258	3387	1846	3387	2164	3245	1769	3245
2400	1100	2080	3120	1704	3120	1993	2989	1633	2989
2400	1200	1934	2901	1589	2901	1853	2780	1522	2780
2400	1300	1814	2721	1494	2721	1738	2607	1431	2607
2400	1400	1714	2571	1415	2571	1642	2463	1356	2463
2400	1500	1631	2446	1350	2446	1562	2344	1293	2344
2700	900	1940	2909	1404	2909	1858	2788	1345	2788
2700	1000	1762	2642	1277	2642	1688	2532	1224	2532
2700	1100	1618	2427	1175	2427	1550	2325	1126	2325
2700	1200	1500	2249	1091	2249	1437	2155	1046	2155
2700	1300	1401	2102	1022	2102	1343	2014	979	2014
2700	1400	1319	1978	964	1978	1264	1896	924	1896
2700	1500	1249	1874	915	1874	1197	1795	877	1795

Wind Ratings (Pa) Mullion / Light stile combinations.

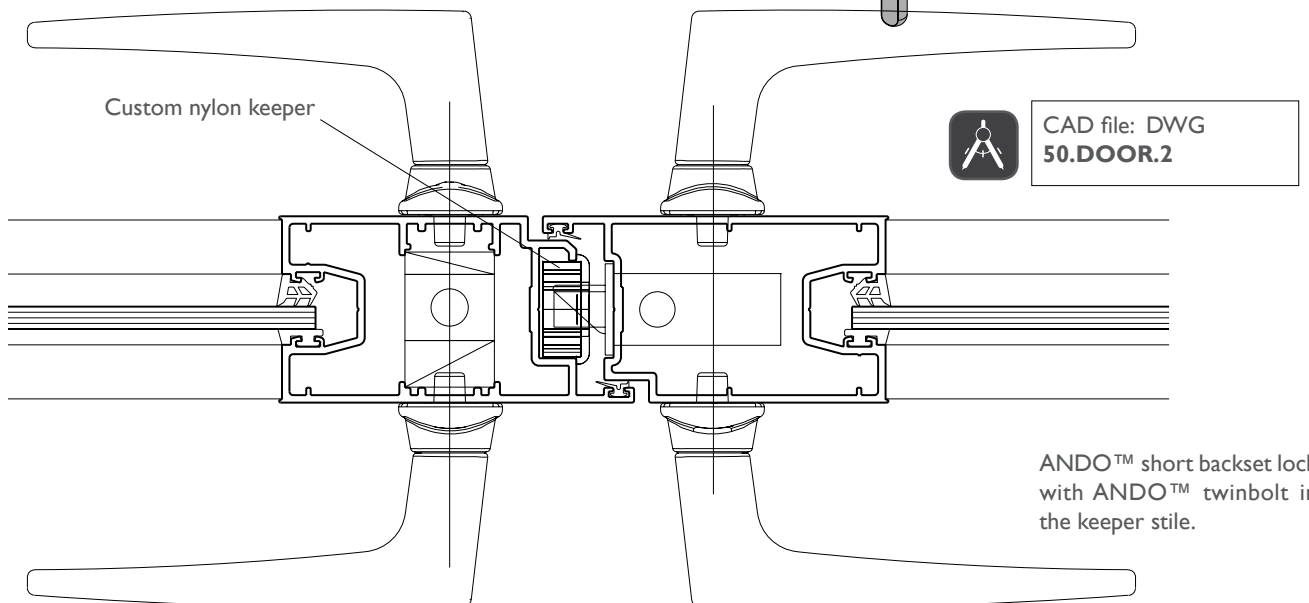
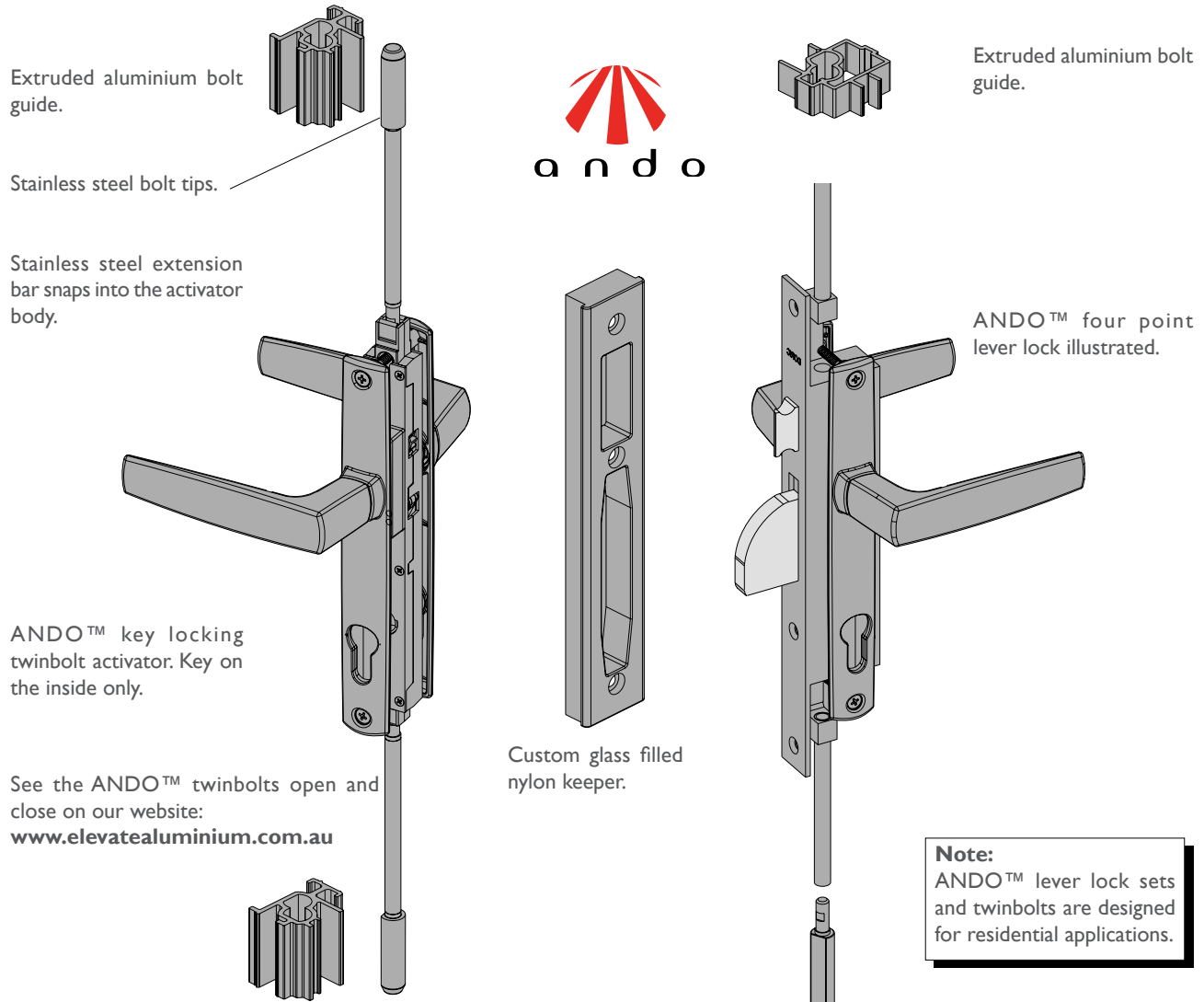
Panel Height mm	Panel Width mm	Series 50 & 51 Light 81012 - 81514		Series 50 & 51 Light 81012 - 81514		Series 52 Light 81012 - 81548		Series 52 Light 81012 - 81548	
		Deflection I/180		Deflection I/250		Deflection I/180		Deflection I/250	
		S	U	S	U	S	U	S	U
2400	900	3333	5000	3333	5000	3333	5000	3333	5000
2400	1000	3333	5000	3333	5000	3333	5000	3333	5000
2400	1100	3333	5000	3333	5000	3333	5000	3333	5000
2400	1200	3333	5000	3333	5000	3171	4757	3171	4757
2400	1300	3333	5000	3333	5000	2974	4462	2974	4462
2400	1400	3333	5000	3333	5000	2811	4216	2811	4216
2400	1500	3333	5000	3333	5000	2674	4011	2674	4011
2700	900	3333	5000	3333	5000	3181	4771	3181	4771
2700	1000	3333	5000	3333	5000	2889	4333	2889	4333
2700	1100	3280	4920	3280	4920	2653	3979	2653	3979
2700	1200	3041	4561	3041	4561	2459	3688	2459	3688
2700	1300	2842	4262	2842	4262	2298	3447	2298	3447
2700	1400	2674	4012	2674	4012	2163	3244	2163	3244
2700	1500	2533	3800	2533	3800	2048	3073	2048	3073
3000	900	3163	4744	3203	5000	2558	3836	2558	3836
3000	1000	2867	4301	2908	5000	2319	3478	2319	3478
3000	1100	2628	3942	2669	5000	2125	3187	2125	3187
3000	1200	2430	3646	2472	4982	1965	2948	1965	2948
3000	1300	2266	3398	2309	4644	1832	2748	1832	2748
3000	1400	2127	3190	2171	4359	1720	2579	1720	2579
3000	1500	2008	3012	2053	4116	1624	2436	1624	2436

Wind Ratings (Pa) Mullion / Heavy stile combinations.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: HALF FULL SIZE & NTS

ANDO™ LEVER LOCK SET

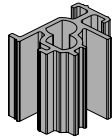


Series 400 CentreGLAZE™ Framing

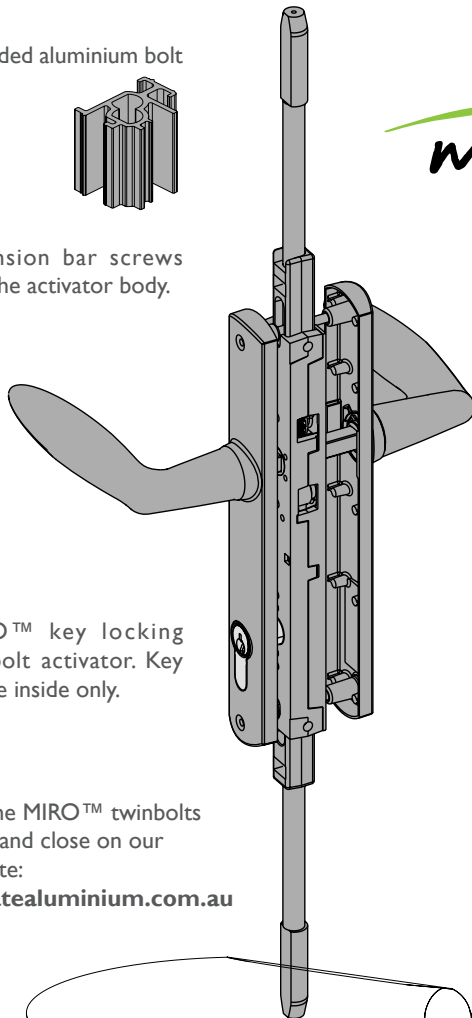
DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

MIRO™ & ICON™ LEVER LOCK SET

Extruded aluminium bolt guide.

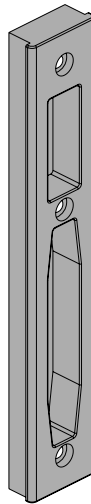


Extension bar screws into the activator body.



MIRO™ key locking twinbolt activator. Key on the inside only.

See the MIRO™ twinbolts open and close on our website:
elevatealuminium.com.au

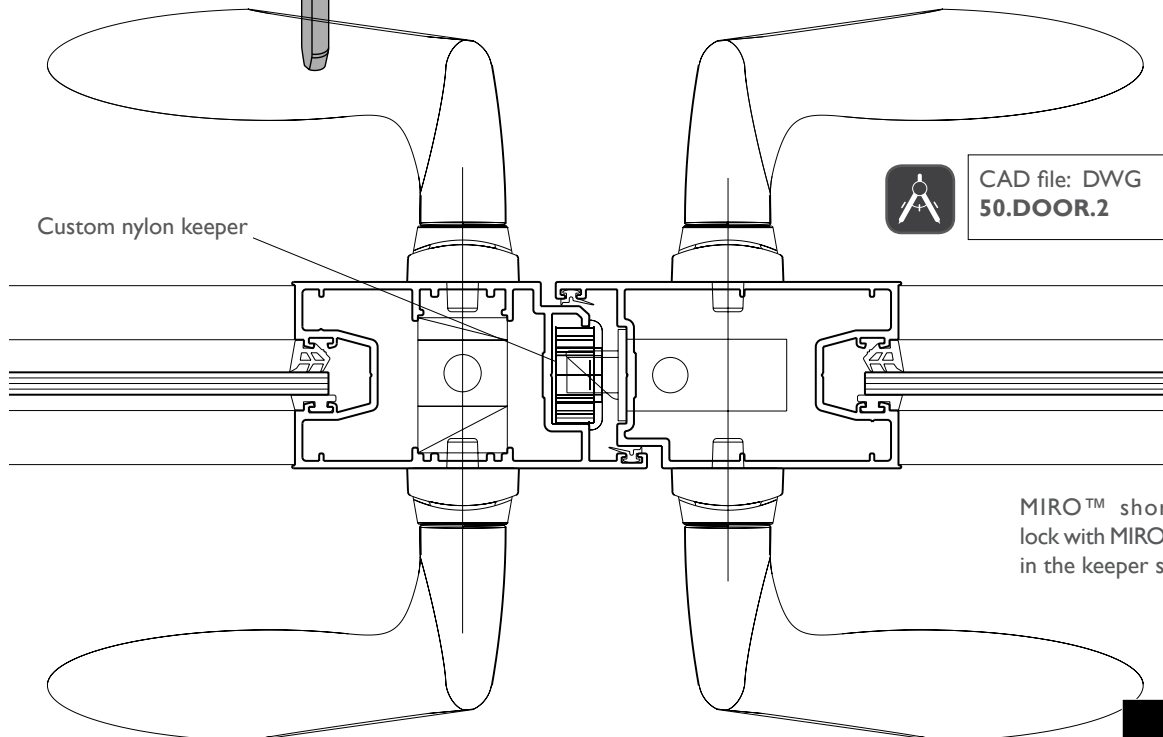


Custom glass filled nylon keeper.



ICON™ locks are only available in 316 stainless steel finish.

Note: MIRO™ & ICON™ lever lock sets and twinbolts are designed for residential applications.



Custom nylon keeper



CAD file: DWG
50.DOOR.2

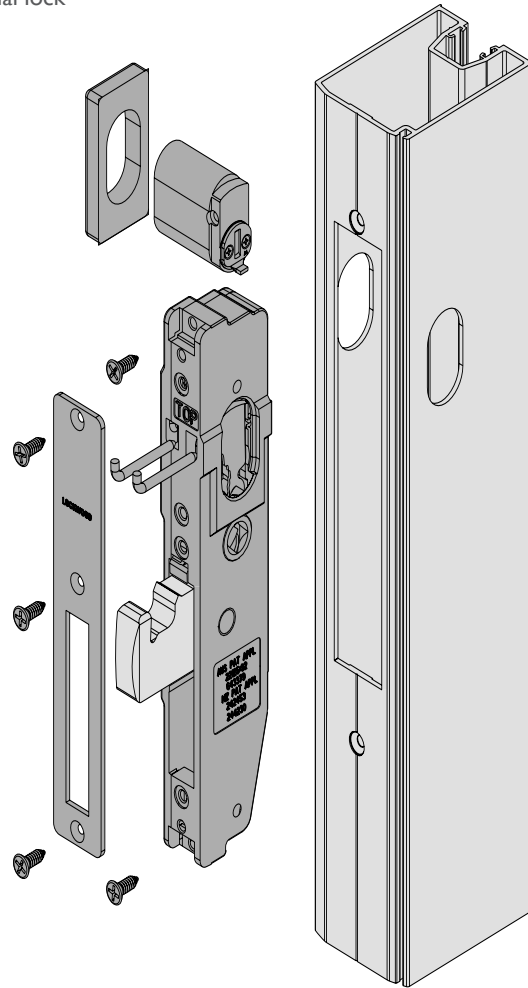
MIRO™ short backset lock with MIRO™ twinbolt in the keeper stile.

Series 400 CentreGLAZE™ Framing

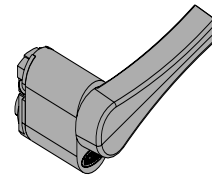
DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

HINGED DOOR LOCK DETAILS

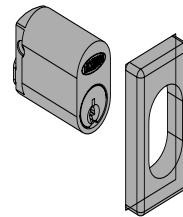
23mm backset commercial lock



Optional lever latch cylinder

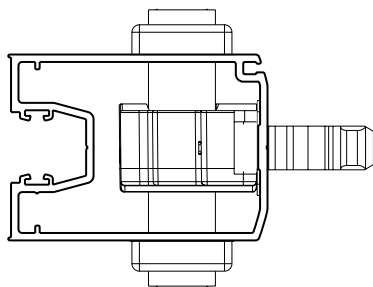
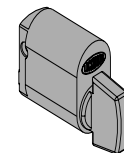


Standard lock cylinder



Cover plates

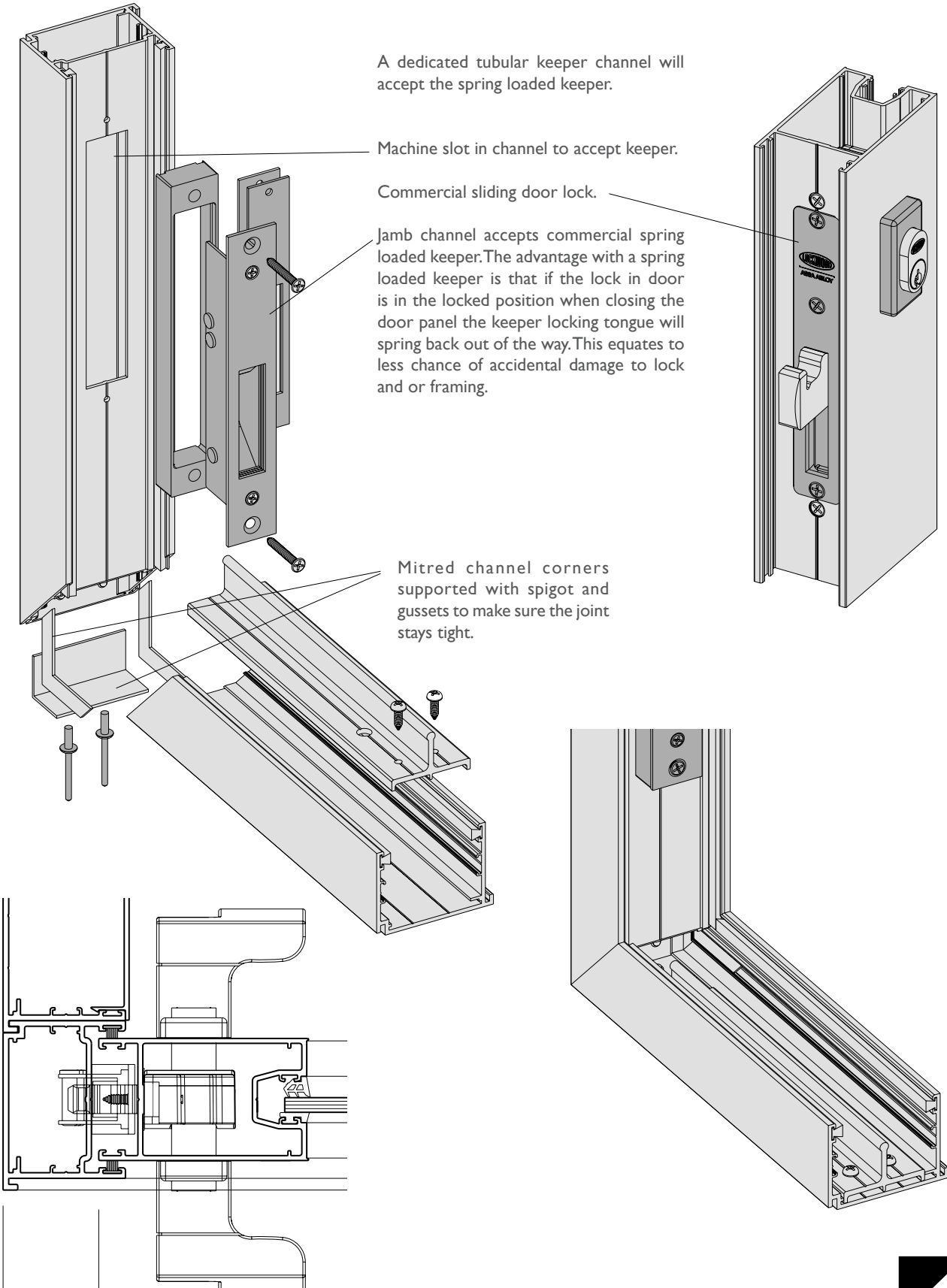
Optional snib cylinder



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

SLIDING DOOR LOCK DETAILS

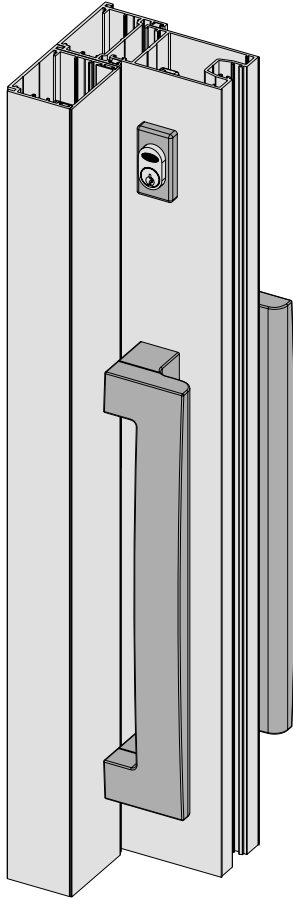


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Series 400 CentreGLAZE™ Framing

DATE: NOV 13
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SCALE: NOT TO SCALE

SLIDING DOOR PULL HANDLE OPTIONS

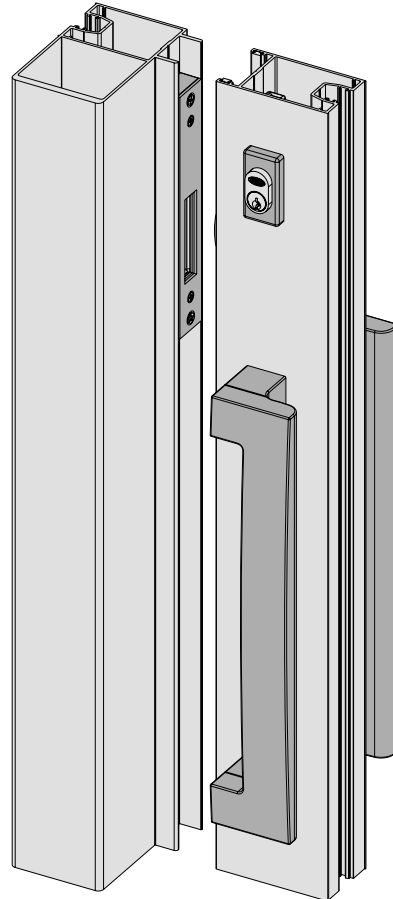


Lock stile to Jamb

Commercial mortice lock.

Custom spring loaded keeper.

ICON™ Pull handles - 316 stainless steel finish.



Lock stile to Keeper Stile

Heavy duty keeper meeting stile illustrated. In most large door configurations this heavy duty bi-parting keeper stile will be required.

Typical strength example:

On a door with panels 2700mm high x 900mm wide with maximum allowable deflection 1/250.

Light meeting stile combination would rate:

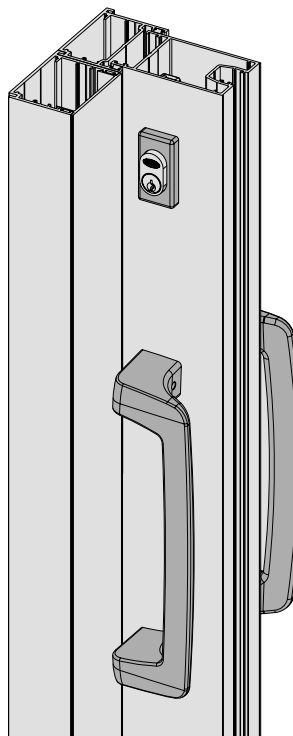
Serviceability 720Pa
Ultimate 2134Pa

Using the heavy meeting stiles illustrated above a door with panels 3000mm high x 1500mm wide with maximum allowable deflection 1/250.

Heavy meeting stile combination would rate:

Serviceability 2008Pa
Ultimate 3012Pa

The strength of the combination is the same as the interlocking stiles shown on page 1.120.



Lock stile to Jamb

Commercial mortice lock.

ANDO™ Pull handles - 316 stainless steel finish. this handle is also available in powder coat finish over 316 stainless steel.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

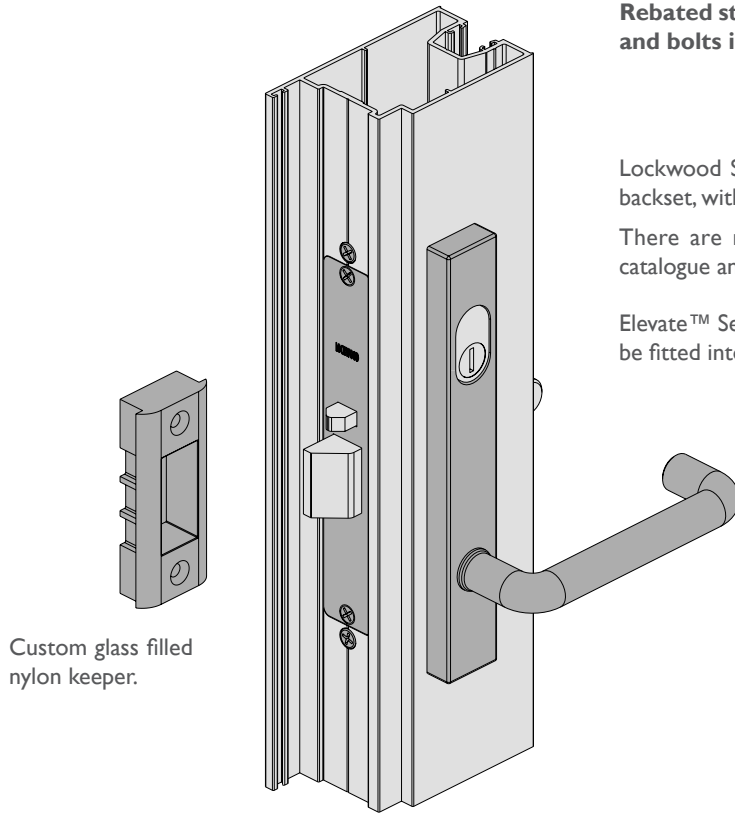
HINGED DOOR LOCK DETAILS

Rebated stiles have been designed to accept a variety of locks and bolts in the keeper stile as shown later in these notes.

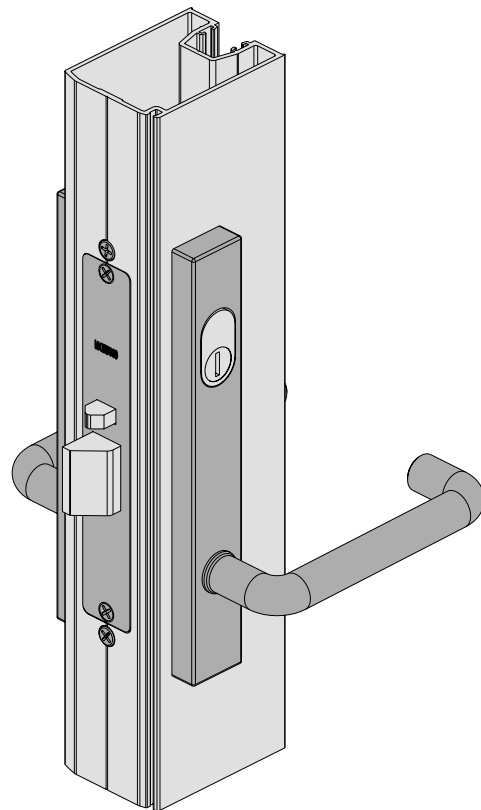
Lockwood Series 3580 short backset cylinder mortice lock - 30mm backset, with Lockwood Series 4800 or 5800 furniture.

There are numerous lock and furniture options refer Lockwood catalogue and/or website (www.lockwoodsecurity.com).

Elevate™ Series 50/51 door French stile illustrated. This lock can also be fitted into Series 52 fully beaded French stile.



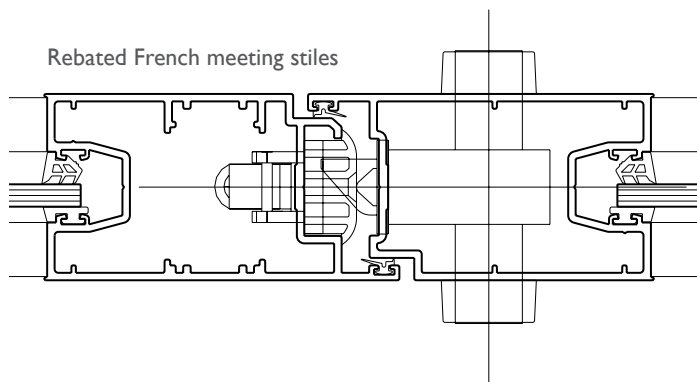
Custom glass filled nylon keeper.



Lockwood Series 3580 short backset cylinder mortice lock - 23mm backset. The 25.40mm backset lock will also fit into Elevate™ stiles, this would move the furniture another 2.40mm off the edge of lock stile, with Lockwood Series 4800 or 5800 furniture.

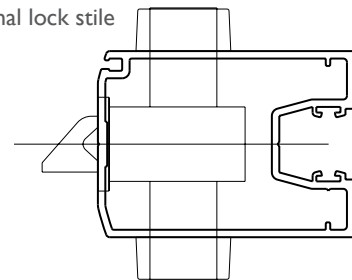
There are numerous lock and furniture options - refer Lockwood catalogue and/or website (www.lockwoodsecurity.com).

Elevate™ Series 50/51 door wiper stile illustrated. This lock can also be fitted into Series 52 fully beaded wiper stile.



Rebated French meeting stiles

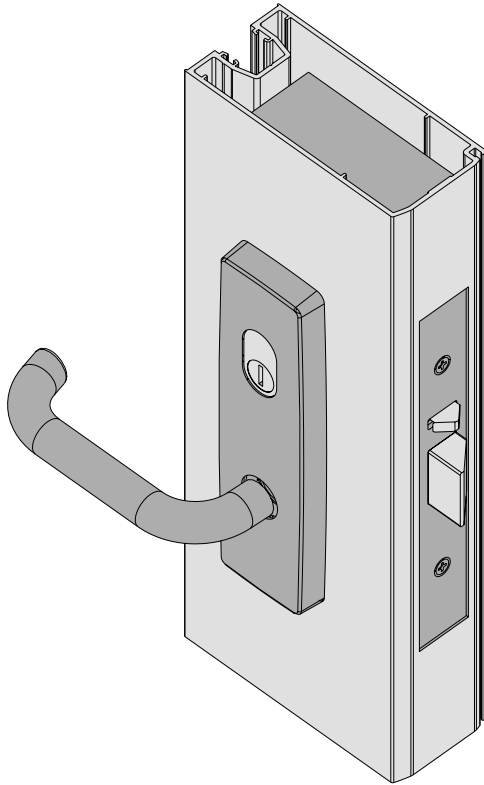
Conventional lock stile



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: HALF FULL SIZE & NTS

LOCKWOOD 3572 LOCK DETAILS

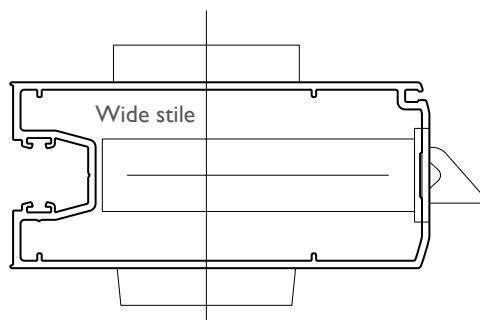
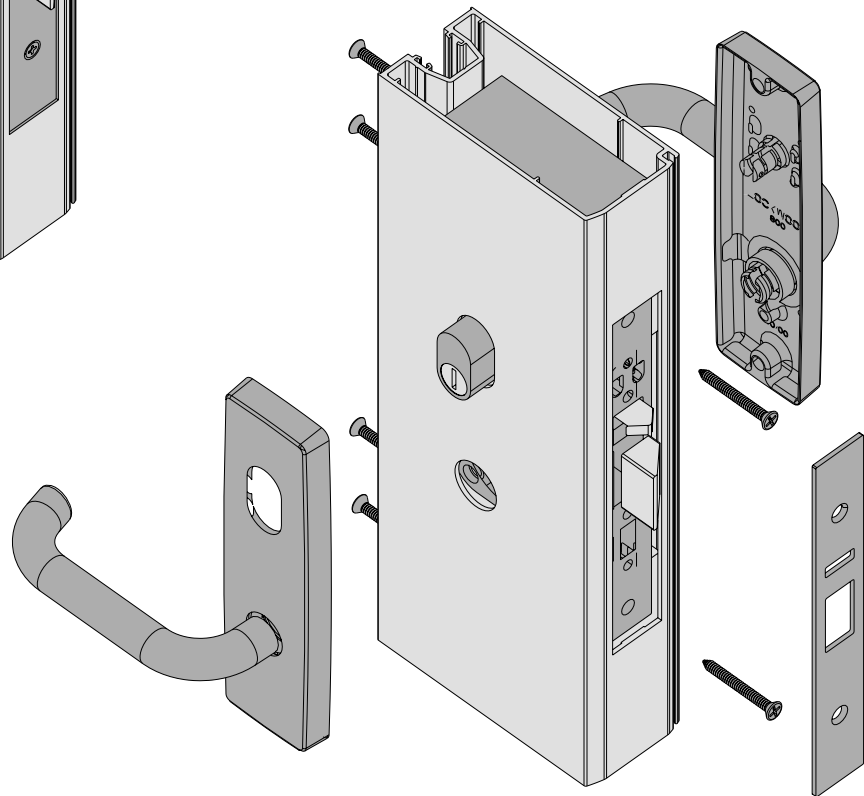


Lockwood Series 3572 vestibule lock - 60mm backset, with Lockwood Series 1800 or 2800 furniture.

There are numerous lock and furniture options - refer Lockwood catalogue and/or website (www.lockwoodsecurity.com).

Elevate™ Series 50/51 door wide wiper stile illustrated. This lock can also be fitted into Series 52 fully beaded wide wiper stile.

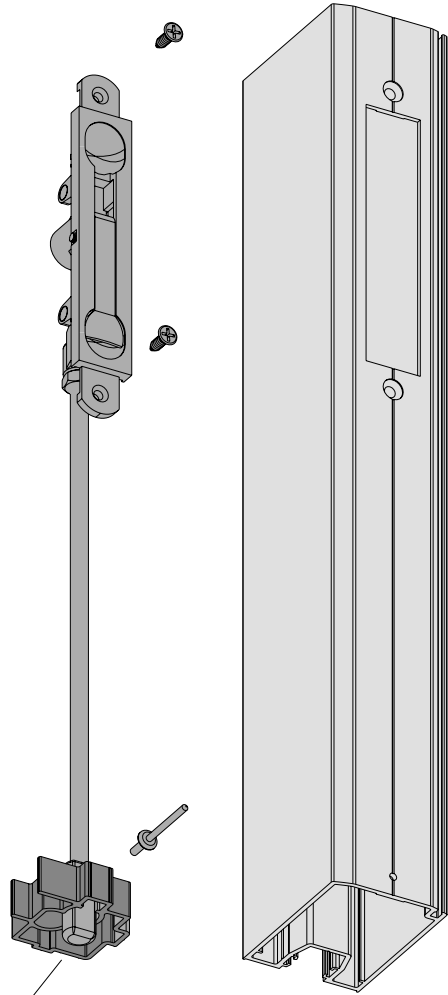
Basically this is a timber lock so we have fitted two treated hardwood timber blocks into stile above and below lock. These blocks are screwed to stile from the glazing pocket area. The lock is then screwed to timber blocks.



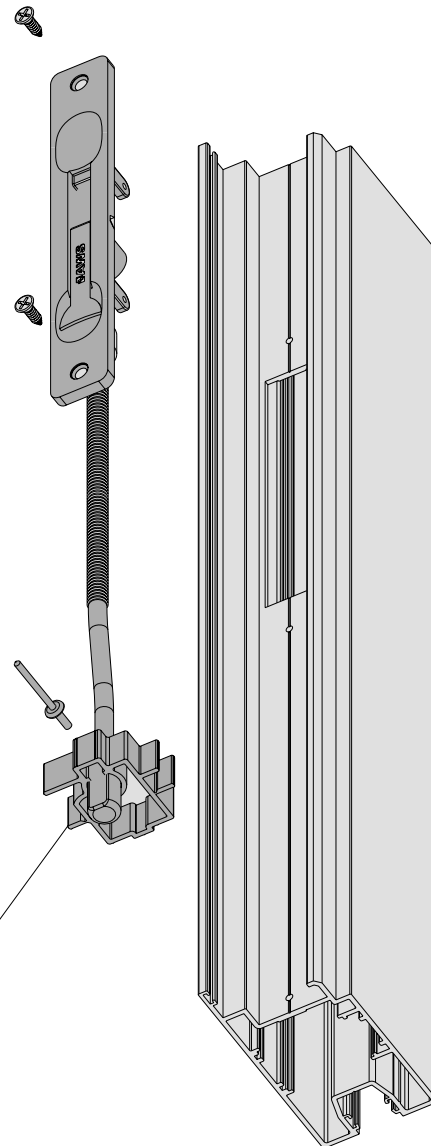
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: NOT TO SCALE

FLUSHBOLT DETAILS



Recessed finger operated flush bolt. Used on conventional door stiles and sliding door stiles.



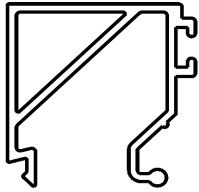
Surface mounted finger operated flushbolt. Used on rebated French meeting stiles.

Custom aluminium bolt guide prevents the bolt from turning and dropping.

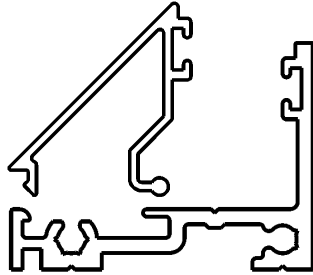
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

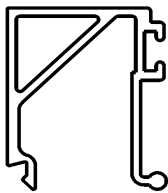
COMMERCIAL GLAZING ADAPTORS



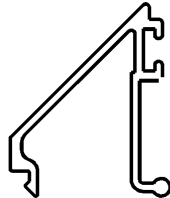
Alternative square bead



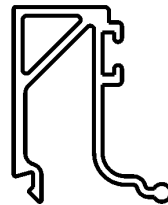
Splayed bead
12mm glazing gap
suits glass up to 6.76mm thick



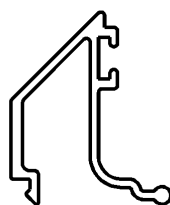
Alternative square bead



Splayed bead
16mm glazing gap
suits glass up to 12.38mm thick

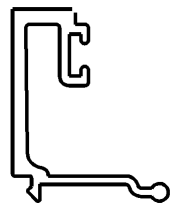


Alternative square bead

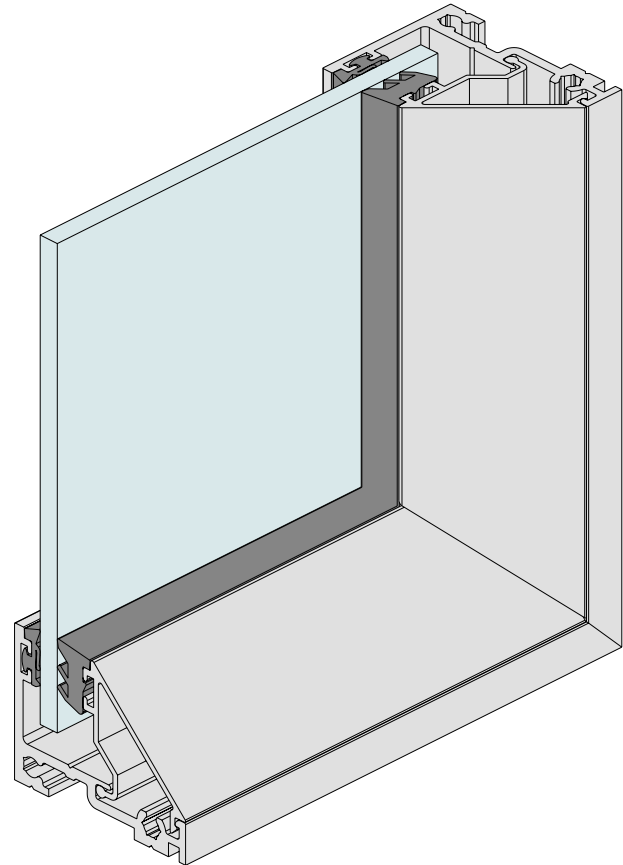
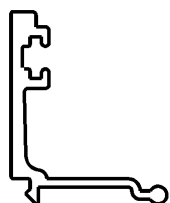


Splayed bead
22mm glazing gap
suits glass up to 16mm thick

Square bead
26mm glazing gap
suits glass up to 20mm thick



Square bead
31mm glazing gap
suits glass up to 24mm thick



40mm wide glazing adaptor

This glazing adaptor has been designed to take the large variety of beads.

The adaptor measures 40mm wide by 30mm high.

The glazing area suits captive wedge one side with roll-in wedge on the other as shown above.

Beading options:

- Splayed all round (up to 22mm gap).
- Splayed horizontals with square verticals (up to 22mm gap).
- Square all round (up to 31mm gap).

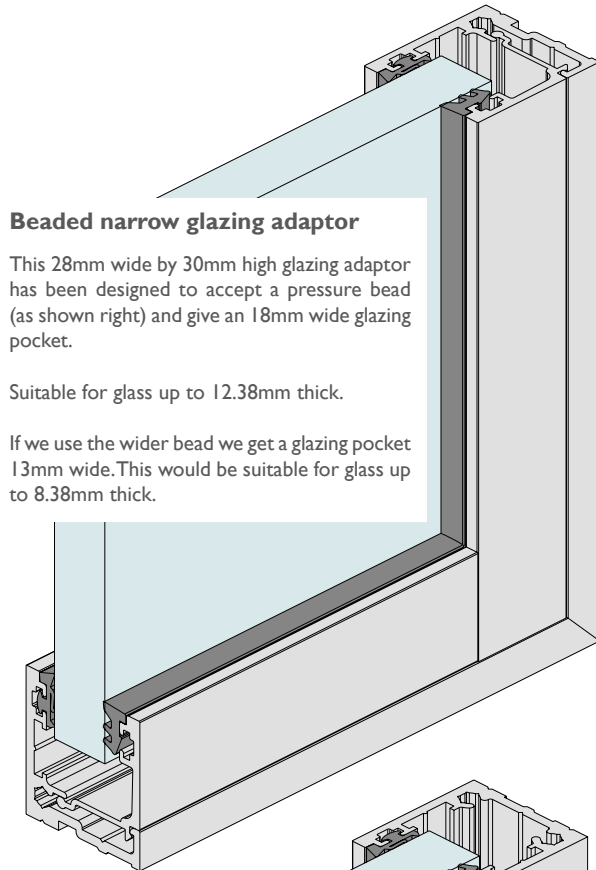


CAD file: DWG
400.FXD.5

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

COMMERCIAL GLAZING ADAPTORS

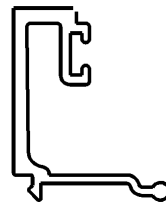


Beaded narrow glazing adaptor

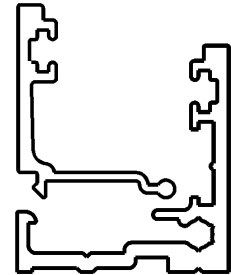
This 28mm wide by 30mm high glazing adaptor has been designed to accept a pressure bead (as shown right) and give an 18mm wide glazing pocket.

Suitable for glass up to 12.38mm thick.

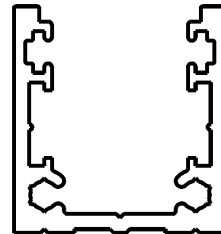
If we use the wider bead we get a glazing pocket 13mm wide. This would be suitable for glass up to 8.38mm thick.



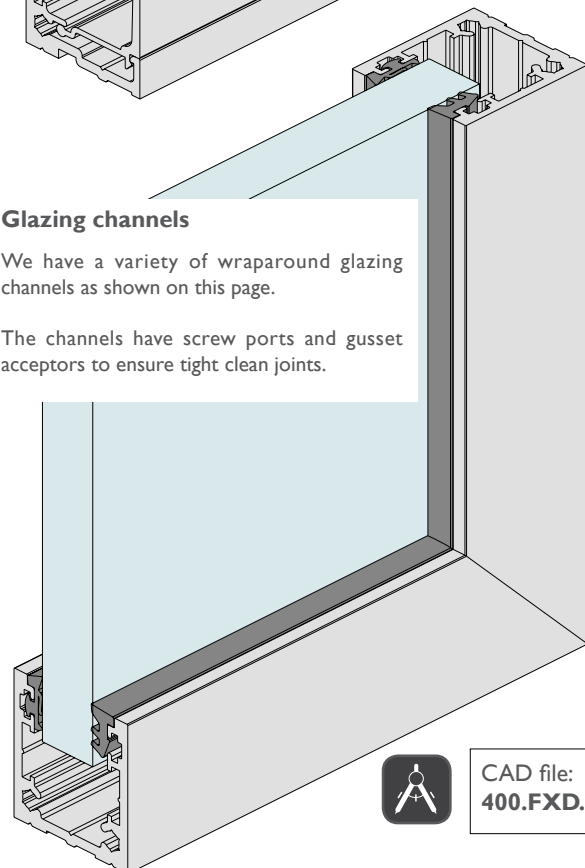
Using a wider bead all round we could reduce the pocket width to 13mm, making it suitable for 8.38mm glass.



Narrow beaded glazing adaptor. 18mm glazing gap suits glass up to 12.38mm thick.



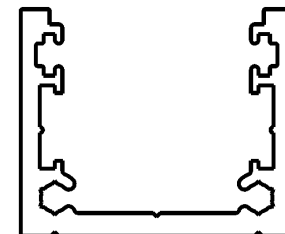
Narrow wraparound glazing channel 28mm wide by 30mm deep. 18mm glazing gap suits glass up to 12.38mm thick.



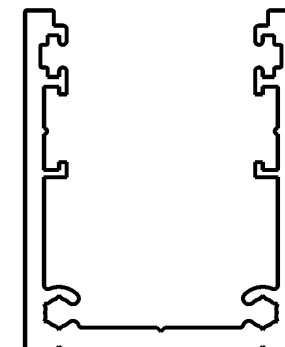
Glazing channels

We have a variety of wraparound glazing channels as shown on this page.

The channels have screw ports and gusset acceptors to ensure tight clean joints.



Wraparound glazing channel 36mm wide by 30mm deep. 25mm glazing gap suits glass up to 20mm thick.



Wraparound glazing channel 36mm wide by 45mm deep. 25mm glazing gap suits glass up to 20mm thick.

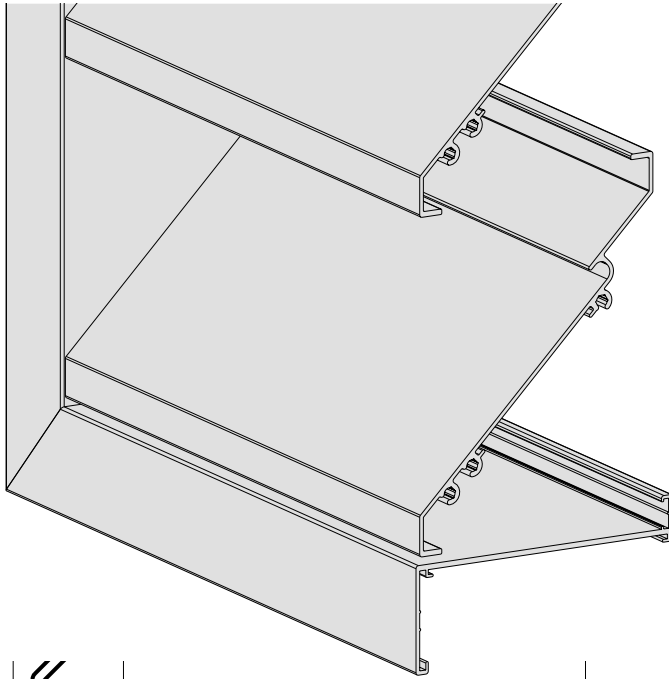


CAD file: DWG
400.FXD.5

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ALUMINIUM FIXED LOUVRES



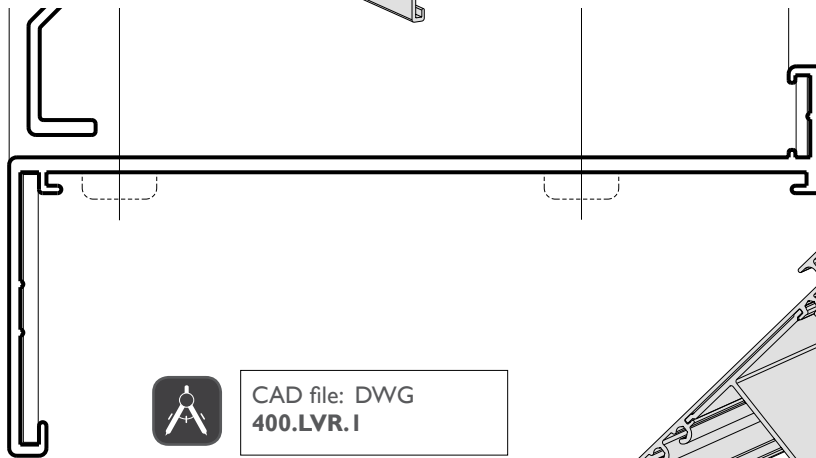
102mm perimeter 'Z' frame

This frame would be ideal for stand-alone frames into prepared openings.

Will accept both of the 102mm blades (single and double throated).

Frame corners are mitred and spiggoted.

Blades can also be installed into 102mm CentreGLAZE™ or FrontGLAZE™ framing as shown below.



CAD file: DWG
400.LVR.1

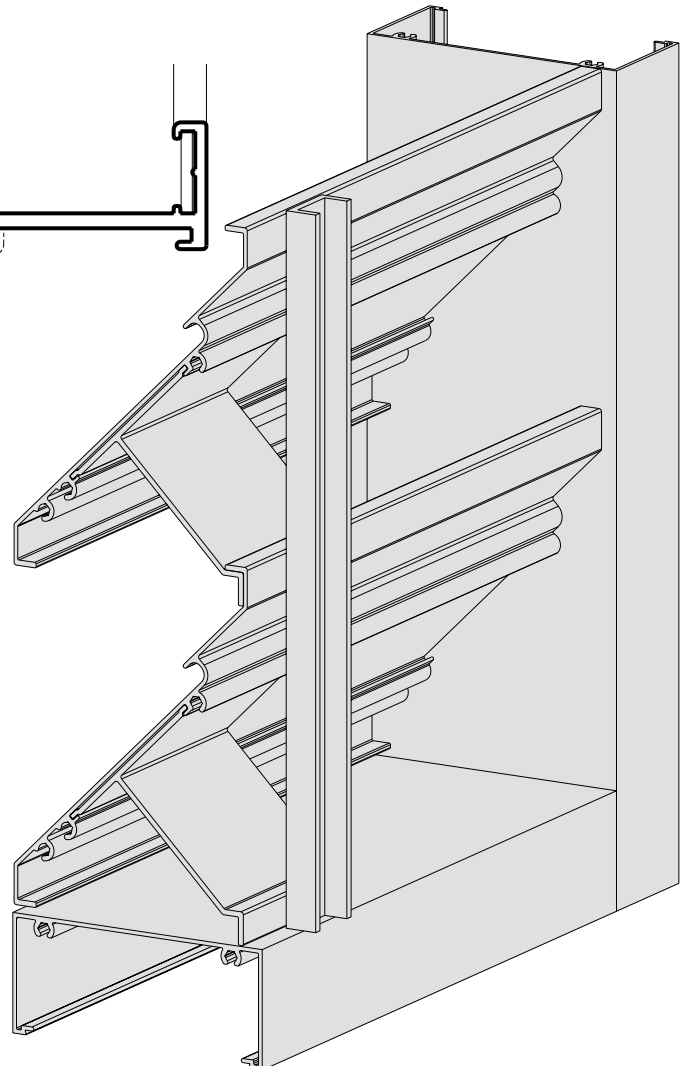
102mm blade support bracket

If the blade length exceeds 1200mm fit 50mm lengths of support bracket. Fix the brackets to channel support.

There will also be situations in higher wind load areas where you may want to fit the brackets at less than 1200mm centres.

Note:

These support brackets can only be used when blades are at the standard pitch, as shown on following page.



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

ALUMINIUM FIXED LOUVRES

Single throated 102mm blade

The airflow through the blades varies as the pitch of the blades closes up, typical examples shown below:

Pitch	Blade air flow
Standard 111mm	55%
100mm	54%

Blade fixing centres:

This blade can be fitted into Series 400 CentreGLAZE™ and Series 406 FrontGLAZE™ framing.



CAD file: DWG
400.LVR.1

If the blade length exceeds 1200mm fit 50mm lengths of support bracket to stabilise the blades.

Note:

These support brackets can only be used when blades are at the standard pitch.

Double throated 102mm blade

The airflow through the blades varies as the pitch of the blades closes up, typical examples shown below:

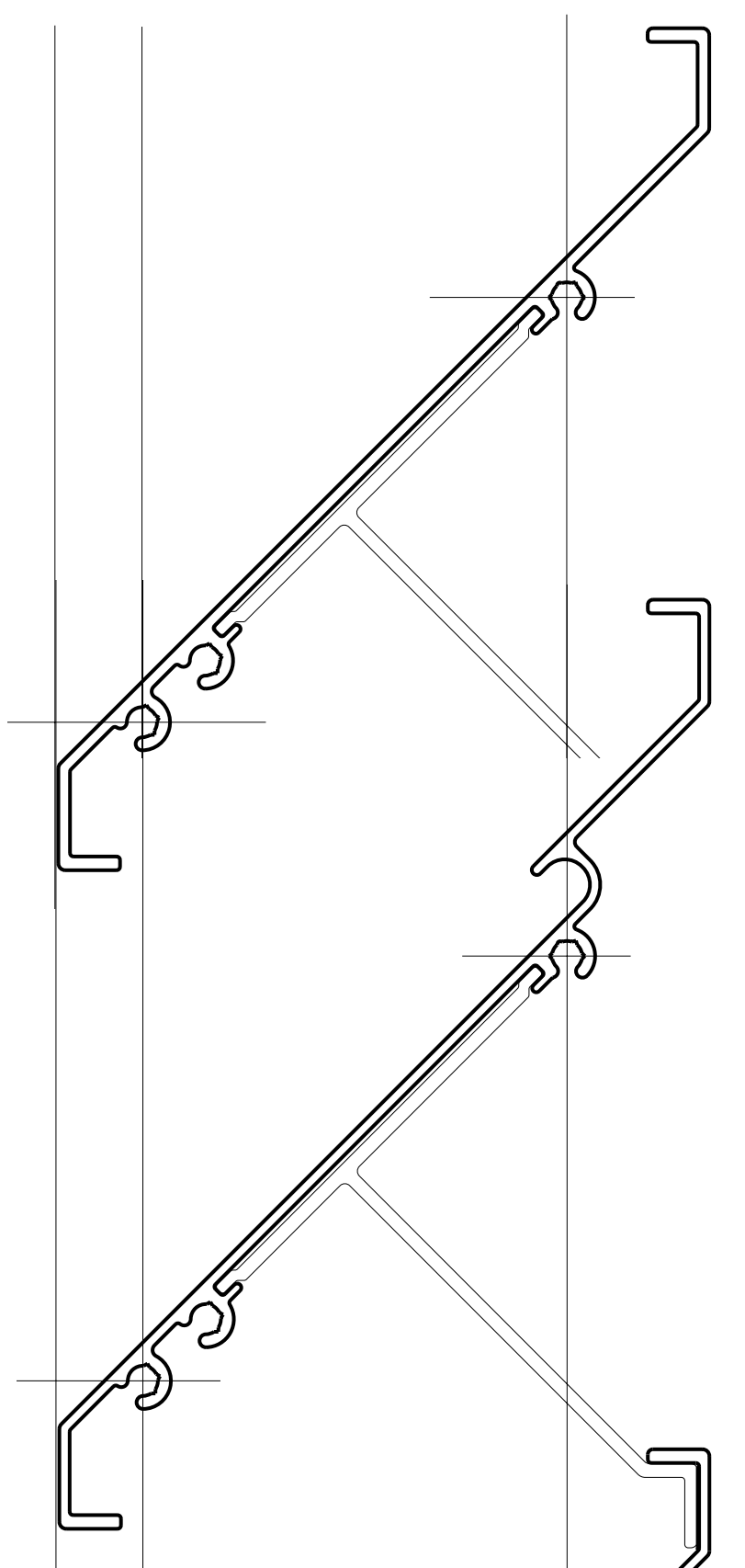
Pitch	Blade air flow
Standard 124mm	50%
115mm	48%
100mm	45%

Blade fixing centres:

This blade can be fitted into Series 400 CentreGLAZE™ and Series 406 FrontGLAZE™ framing.



CAD file: DWG or DXF
AWS_400_7



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

ALUMINIUM FIXED LOUVRES IN DOOR PANEL

Double throated 50mm blade

This blade has been designed to go into the 50mm thick Series 50 and Series 51 doors.

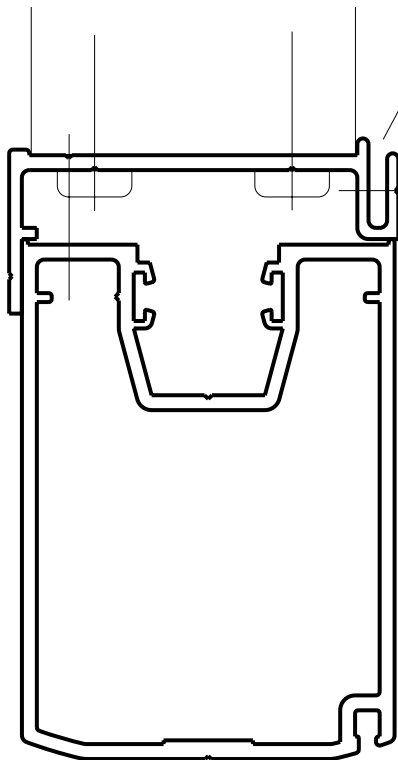
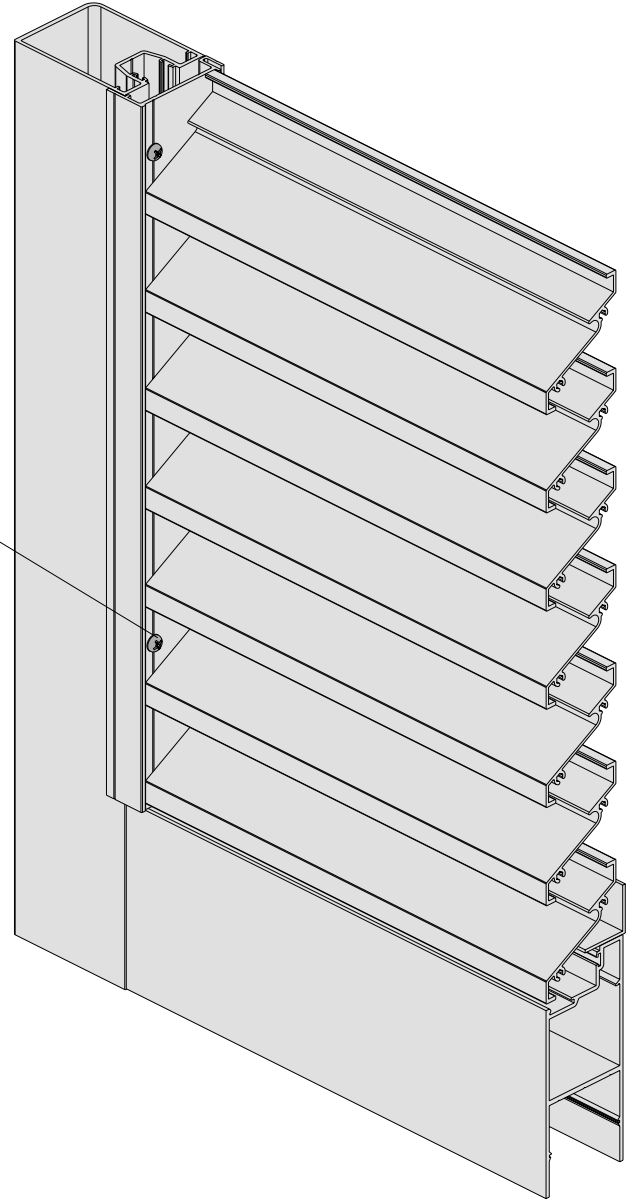
The louvres are fabricated as a unit with a jamb inlay adaptor.

Insert the louvre frame into an assembled door panel.

Screw fix the louvre panel to the door stile.



CAD file: DWG
 400.LVR.1



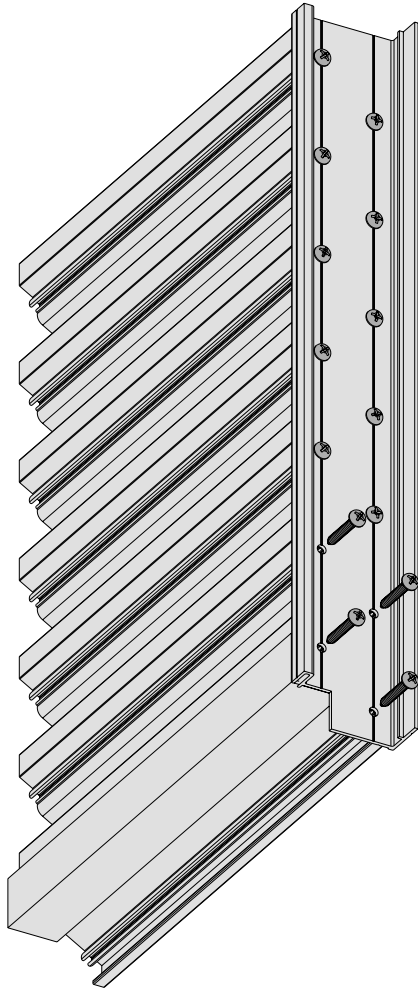
The 2.50mm wide gap on jamb inlay adaptor will accept bird wire.

Louvres can be installed into hinged, bi-fold and sliding doors.

Series 400 CentreGLAZE™ Framing

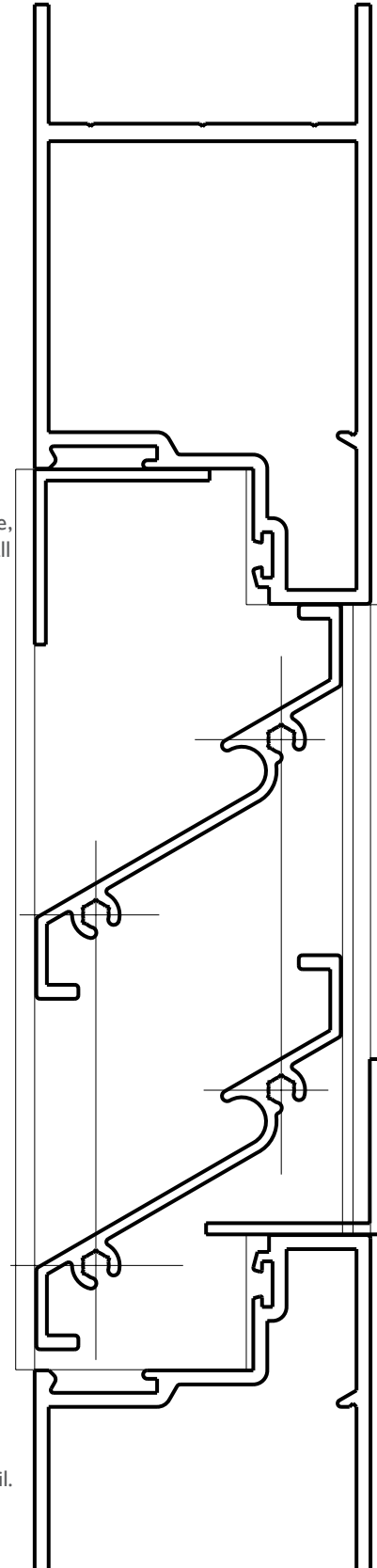
DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ALUMINIUM FIXED LOUVRES IN DOOR PANEL



Series 50 door top rail.

1.6mm aluminium angle,
size will vary to suit overall
panel height.



Series 50 door bottom rail.

Double throated 50mm blade

The airflow through the blades is shown below:

Pitch	Blade air flow
Standard 50mm	44%

Blade fixing centres:

This blade can be fitted into Series 50 and Series 51 doors as shown on this page.



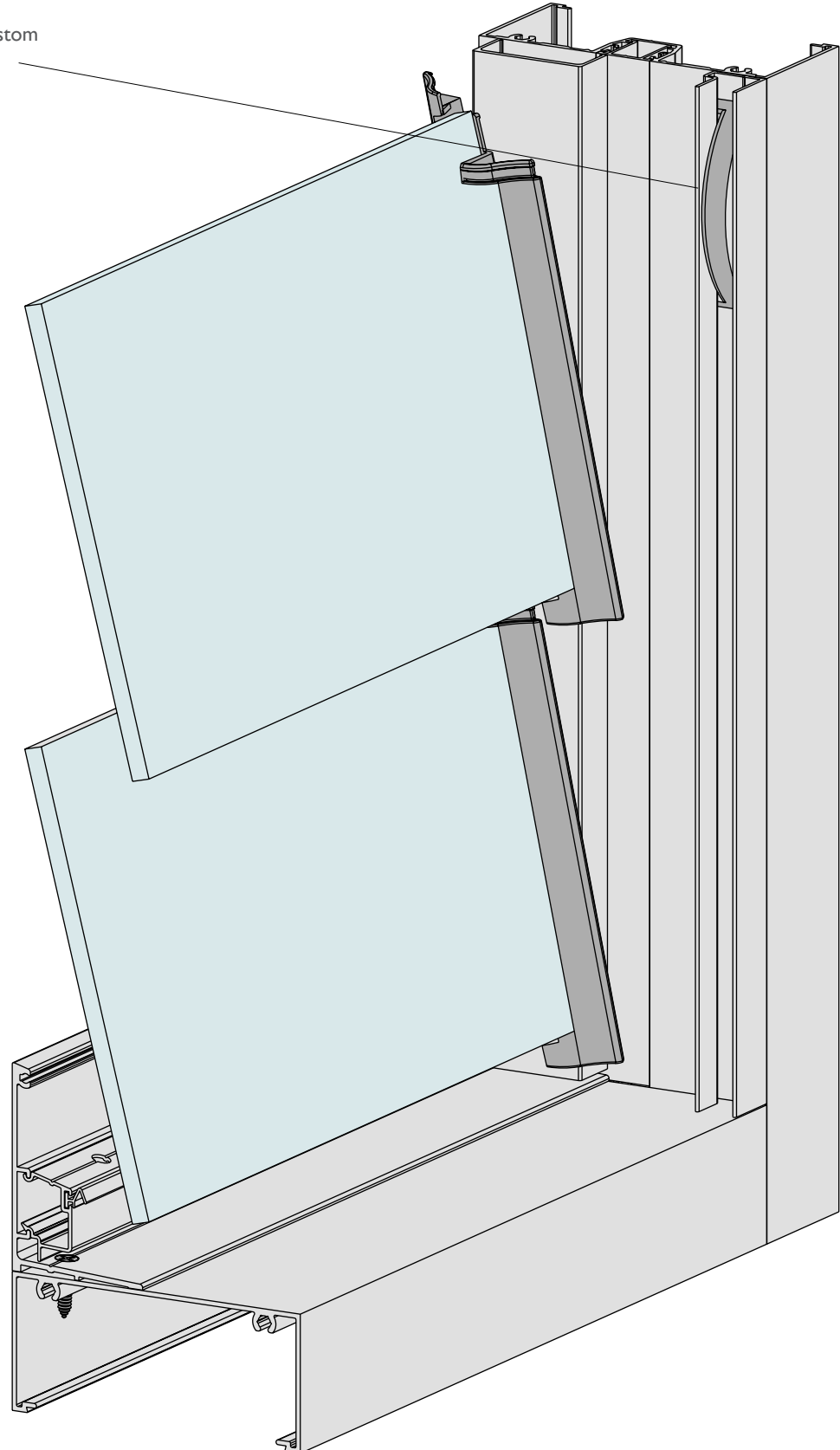
CAD file: DWG
400.LVR.1

Series 400
CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: NOT TO SCALE

ADJUSTABLE GLASS LOUVRE INSERT

Flyscreen insert channel with custom nylon spring clips.



Louvre sill/head adaptor. Designed to accept aluminium weather bar and co-extruded Santoprene louvre weather flap.

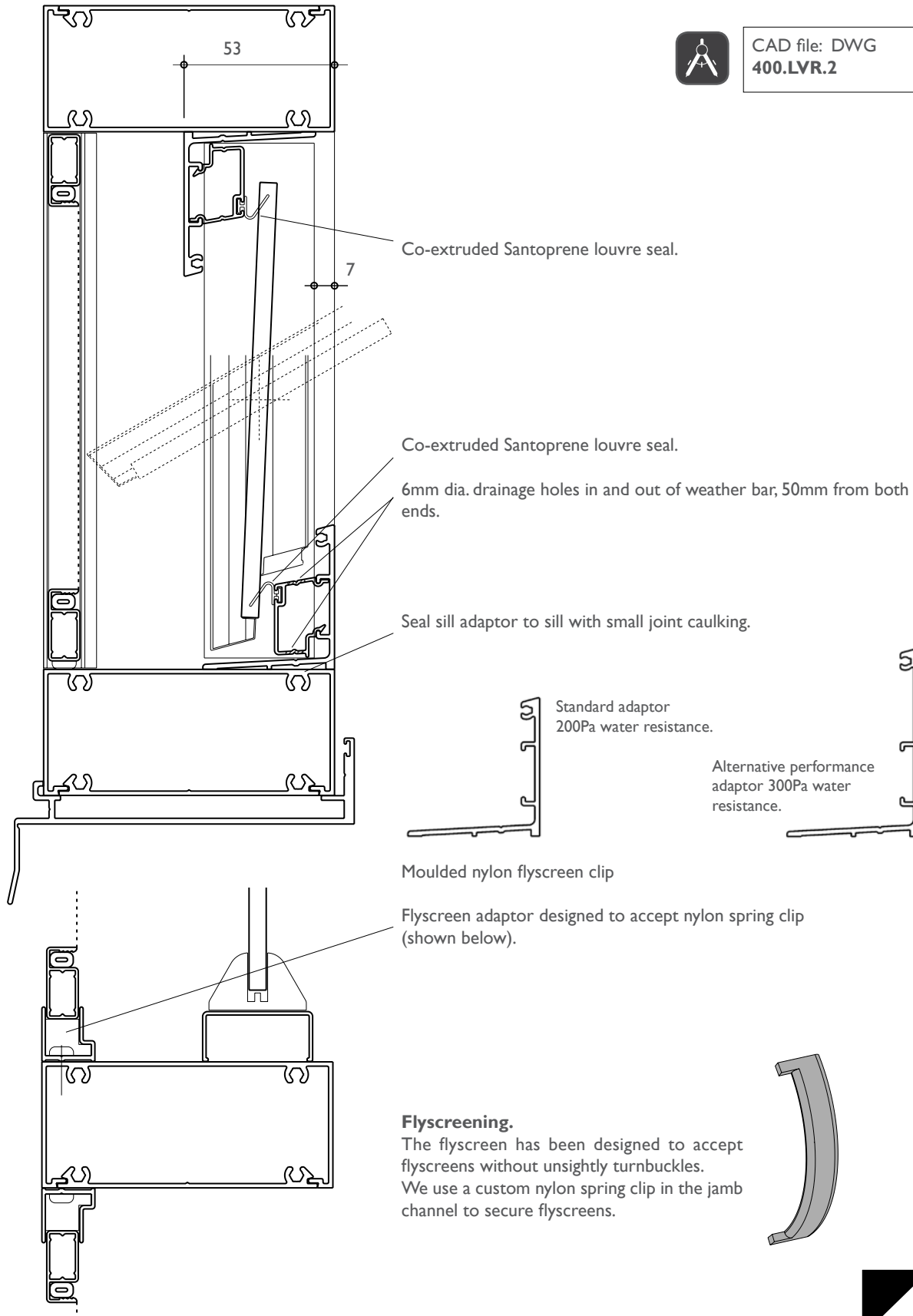
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: HALF FULL SIZE & NTS

ADJUSTABLE GLASS LOUVRE INSERT



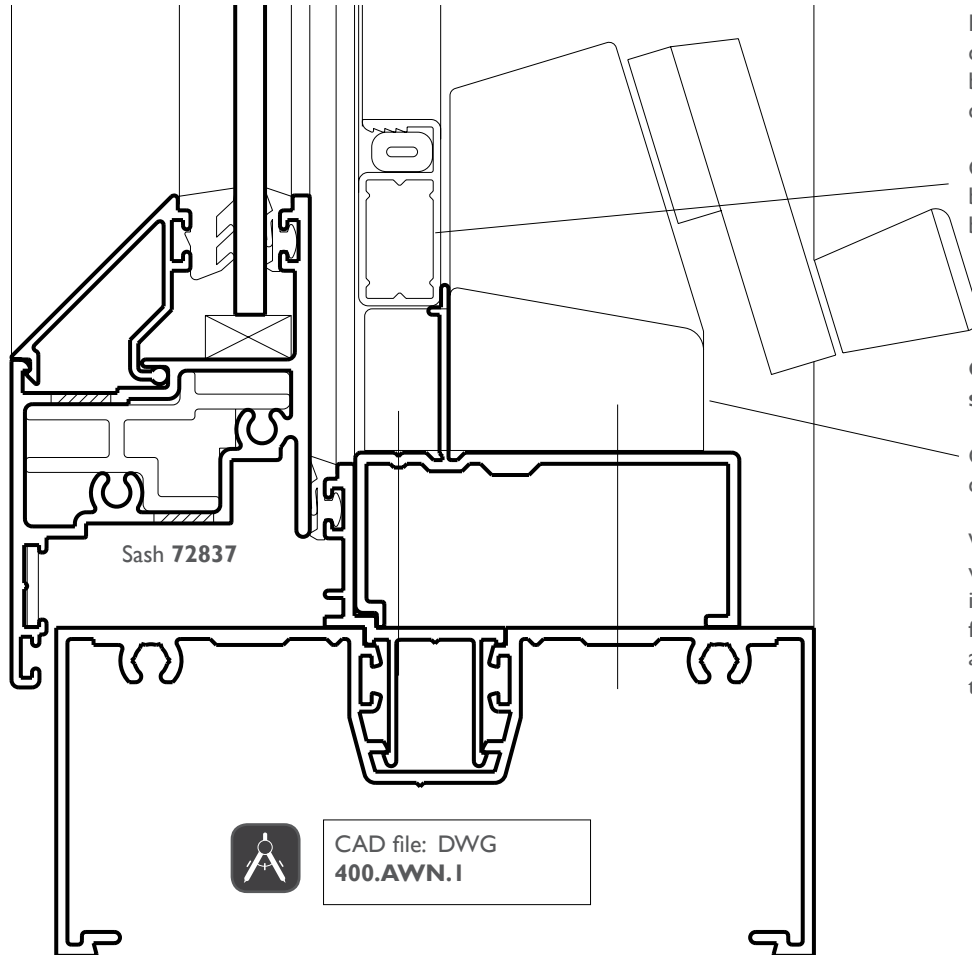
CAD file: DWG
400.LVR.2



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

AWNING SASH IN COMMERCIAL FRAMING



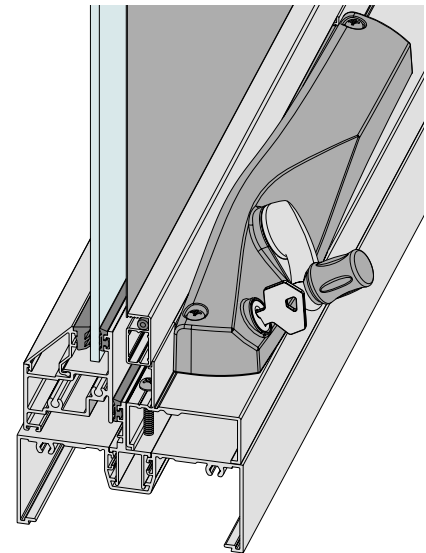
Manual chain winder with corrosion resisting Polesium™ body and base and stainless steel chain as standard.

Custom extruded flyscreen can be fitted neatly on the winder base upstand.

One of the double seal facing sashes illustrated.

Custom winder base to support chain winder.

We also offer an Architectural version of this window with integrated winder base and nailing fin frame - ideal for brick veneer and cavity brick installation. Refer to Series 466.



Polesium™ body chain winder come with 304 stainless steel chains as standard. Standard chain throw is 250mm, on heavier sashes this will be reduced.



SOUND REDUCTION

Series 400 CentreGLAZE™ framing with an awning sash insert will achieve sound reduction numbers listed below.

Glass Description	Rating
6.38mm Laminated glass	Rw32
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	Rw31
10.38mm Laminated glass	Rw36
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

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

AWNING SASH IN COMMERCIAL FRAMING

Concealed electric winder

Custom extruded flyscreen can be fitted neatly onto the winder cover.

Snap-on cover allows future access to winder.

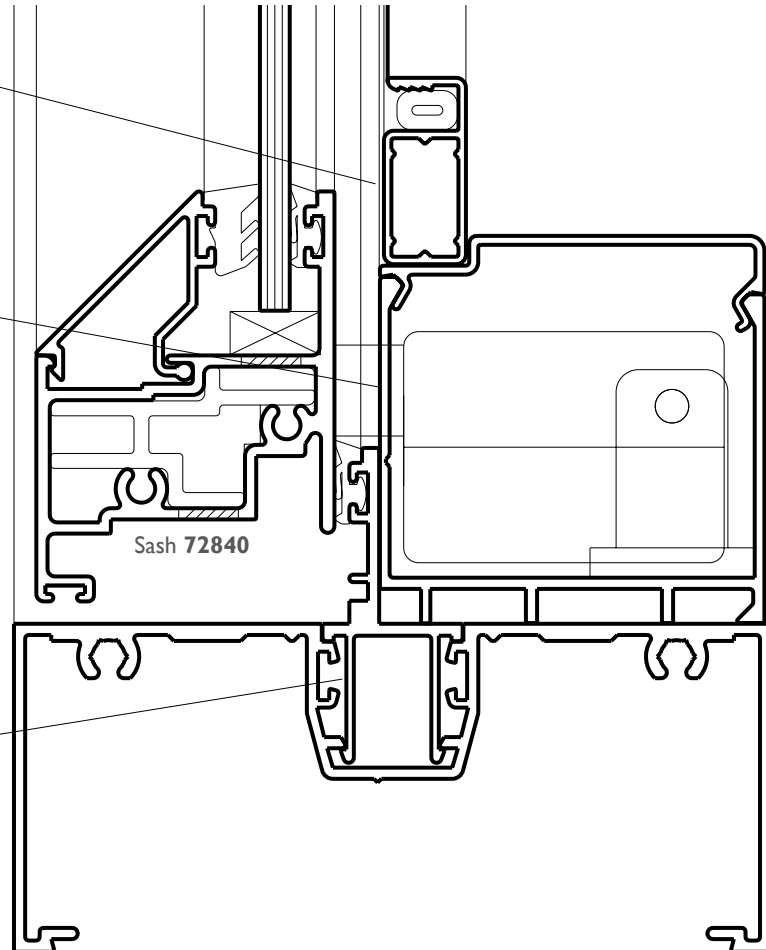
Splayed glazing beads illustrated, square beads also available.

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

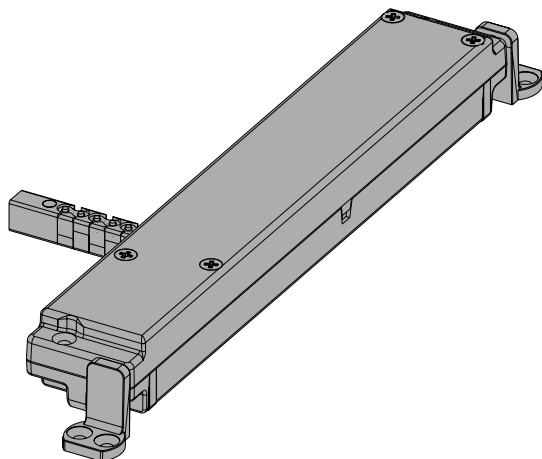
One of the single seal non-facing sashes illustrated.

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

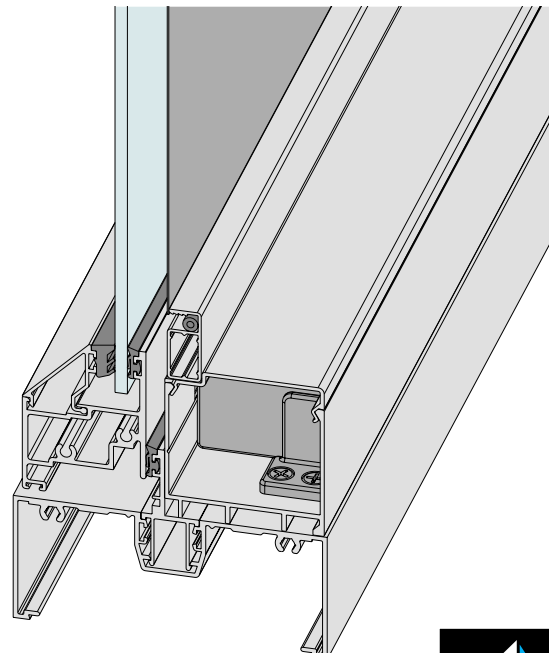
Sash stop snaps into any Elevate™ CentreGLAZE™ pocketed frame.



CAD file: DWG
400.AWN.2



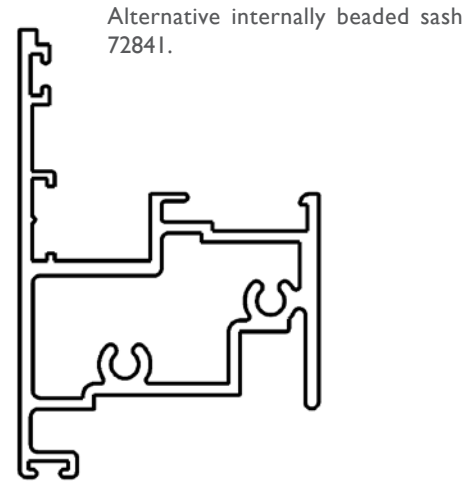
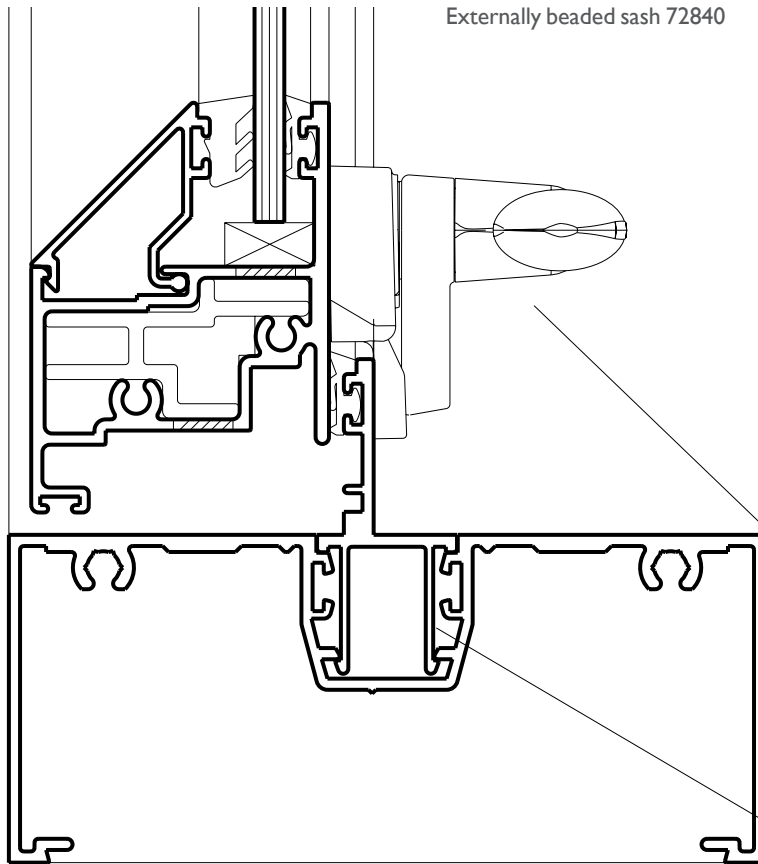
Concealed heavy duty electric winder



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

AWNING SASH IN COMMERCIAL FRAMING



MIRO™ Wedgeless cam handles

These custom cam handles are designed to match other AWS hardware.

The important features with this type of cam handle:

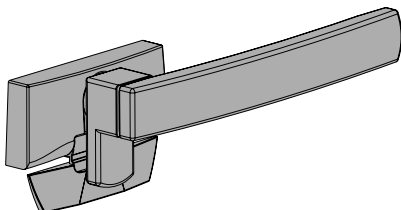
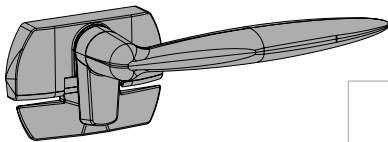
- Keeper is part of the cam handle.
- No keeper fixings required through the weatherbar. Holes and screws or rivets through the weatherbar are potential leak spots.

Sash stop snaps into any Elevate™ CentreGLAZE™ pocketed frame.

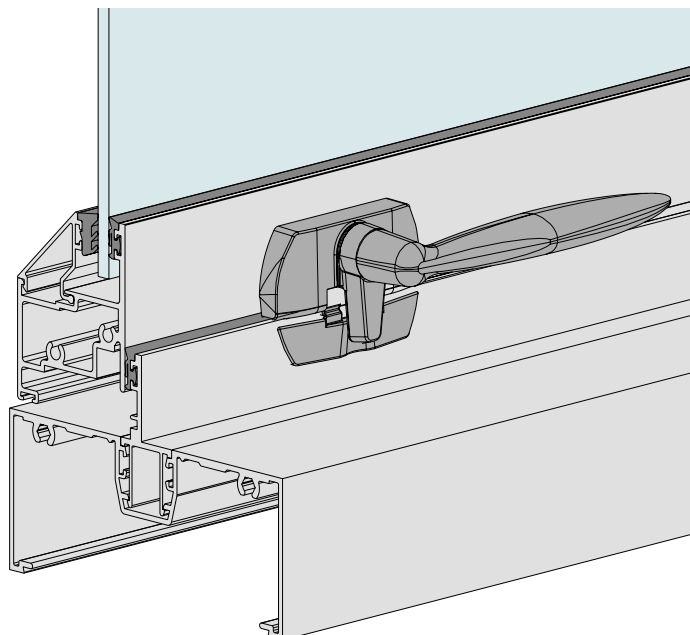


CAD file: DWG
400.AWN.2

See the MIRO™ cam handles open and close on our website: www.elevatealuminium.com.au



Cam handle comes in left and right hand, right hand cam handles illustrated above.

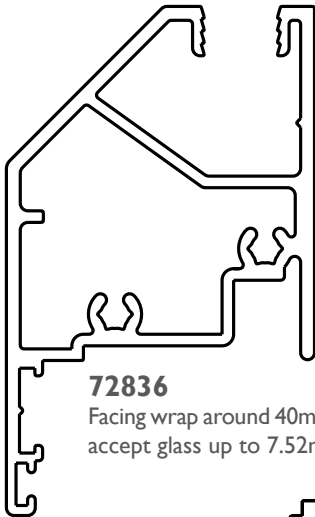


Series 400
CentreGLAZE™ Framing

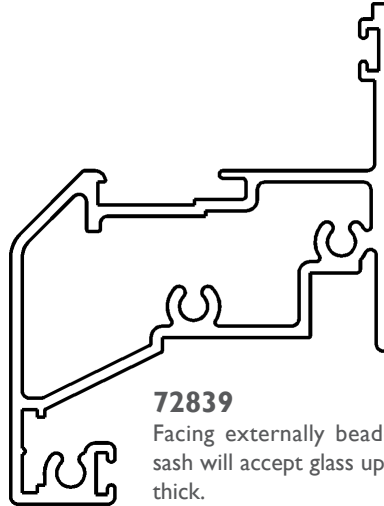
DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE

AWNING SASH IN COMMERCIAL FRAMING

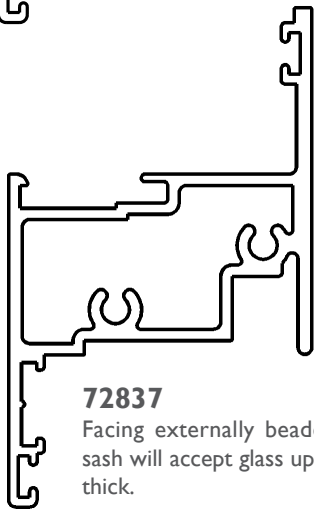
Sash Options



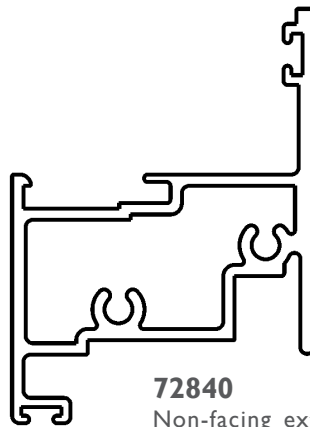
72836
Facing wrap around 40mm sash will accept glass up to 7.52mm thick.



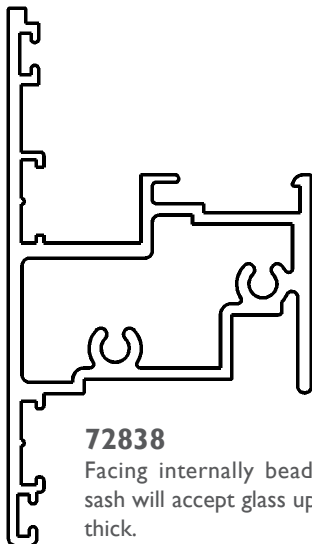
72839
Facing externally beaded 50mm sash will accept glass up to 24mm thick.



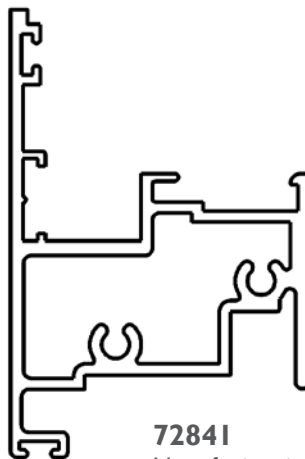
72837
Facing externally beaded 40mm sash will accept glass up to 24mm thick.



72840
Non-facing externally beaded 40mm sash will accept glass up to 24mm thick.



72838
Facing internally beaded 40mm sash will accept glass up to 24mm thick.



72841
Non-facing internally beaded 40mm sash will accept glass up to 24mm thick.



CAD file: DWG
400.AWN.5

Series 400 CentreGLAZE™ Framing

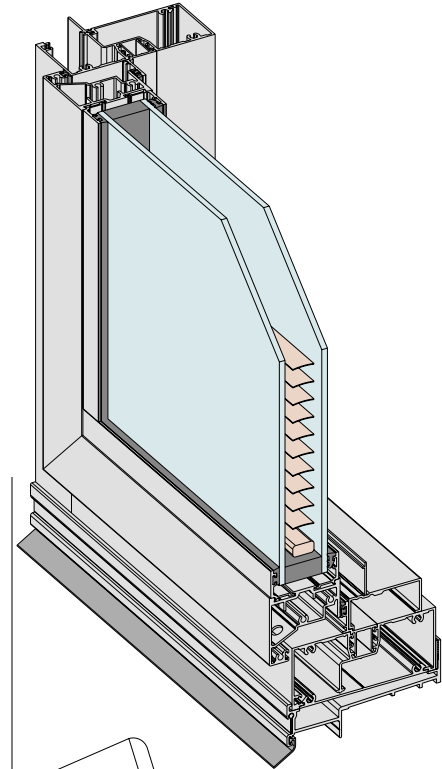
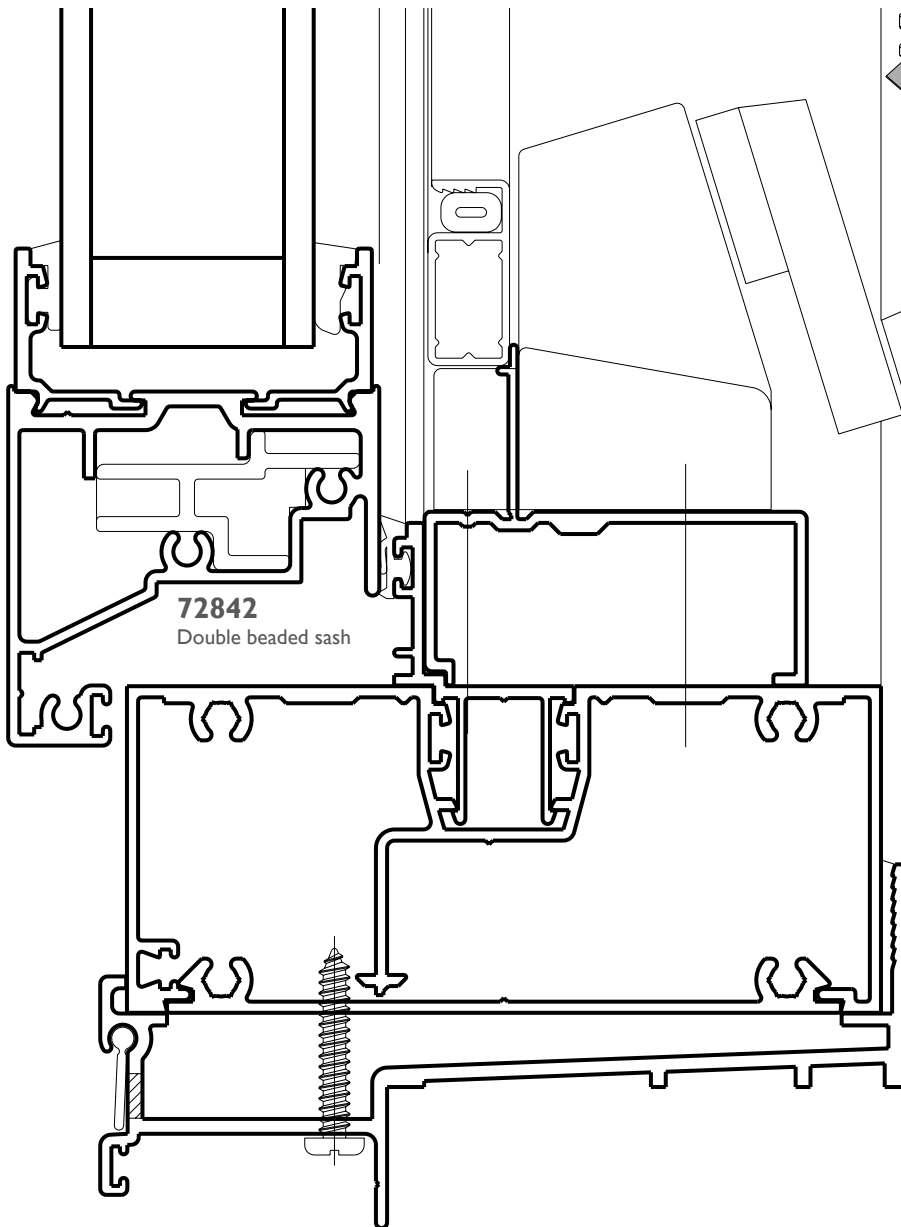
DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FILL SIZE & NTS

AWNING SASH IN COMMERCIAL FRAMING

34mm Insulating Glass Unit (IGU) with integrated venetian blind

Awning and casement sashes

- Custom double beaded sash that will accept 34mm thick insulating glass with inbuilt venetian blind.
- This glass can be inlaid into awnings and casements.
- Awning sashes can be operated with manual or concealed electric winders or cam handles.
- Minimum sash width 400mm.

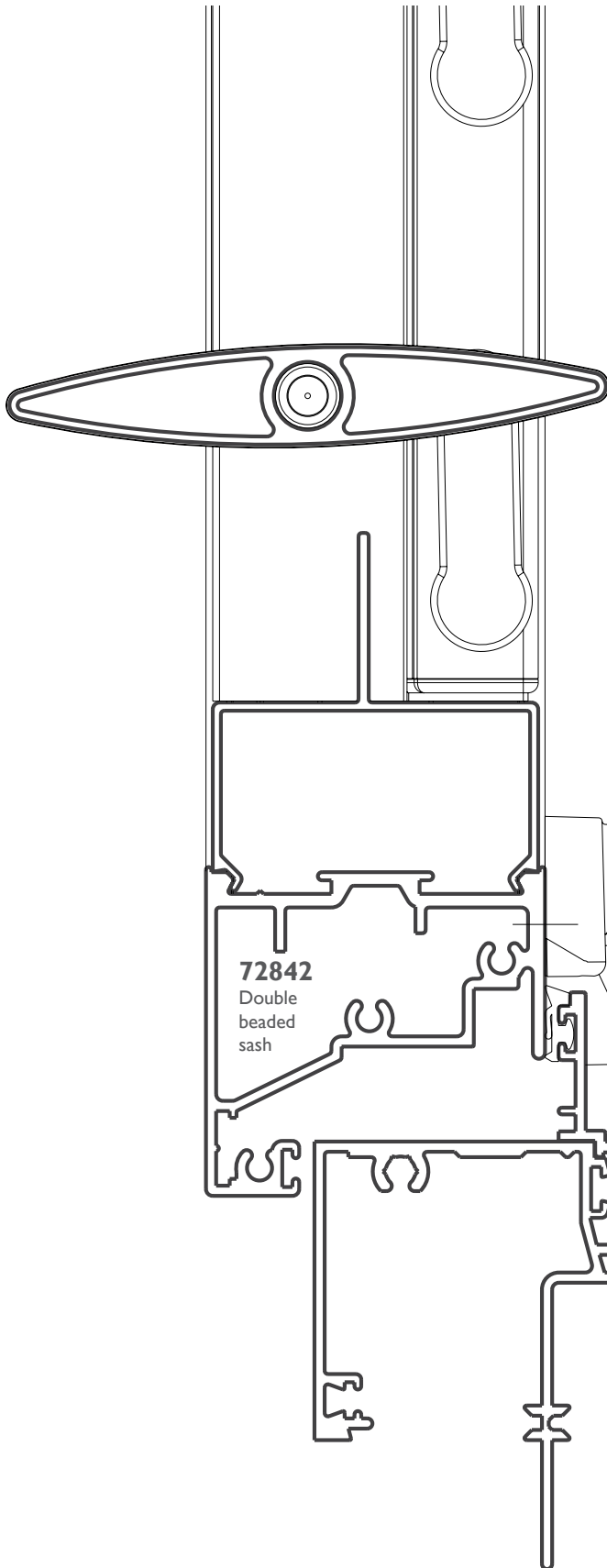


Manual chain winder with with corrosion resisting Polesium™ body and base and stainless steel chain as standard.

Series 400
CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

AWNING SASH IN COMMERCIAL FRAMING



LouvreMASTER™ sun control shutters into
Awning and casement sashes

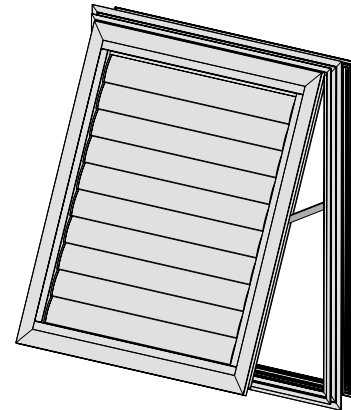
- LouvreMASTER™ shutters can be snapped into awnings and casements as shown on this page.
- We have cut a dedicated double beaded sash to accept the shutter adaptors.
- Awning sashes can be opened and closed and secured with:
 - Manual cam handles.
 - Manual chain winders.
 - Concealed electric chain winders.
- The sashes have been shown in the 44mm nailing fin frame. This could be any of the Series 400 CentreGLAZE™, Series 406 and 606 FrontGLAZE™ and Series 80 Narrow offset frames.

Important Note:

Awning and casement sashes fitted with LouvreMASTER™ shutters are **not waterproof**.

Size Limitations:

Minimum sash height = 462mm
Maximum sash height = 2100mm
Maximum sash width = 1000mm

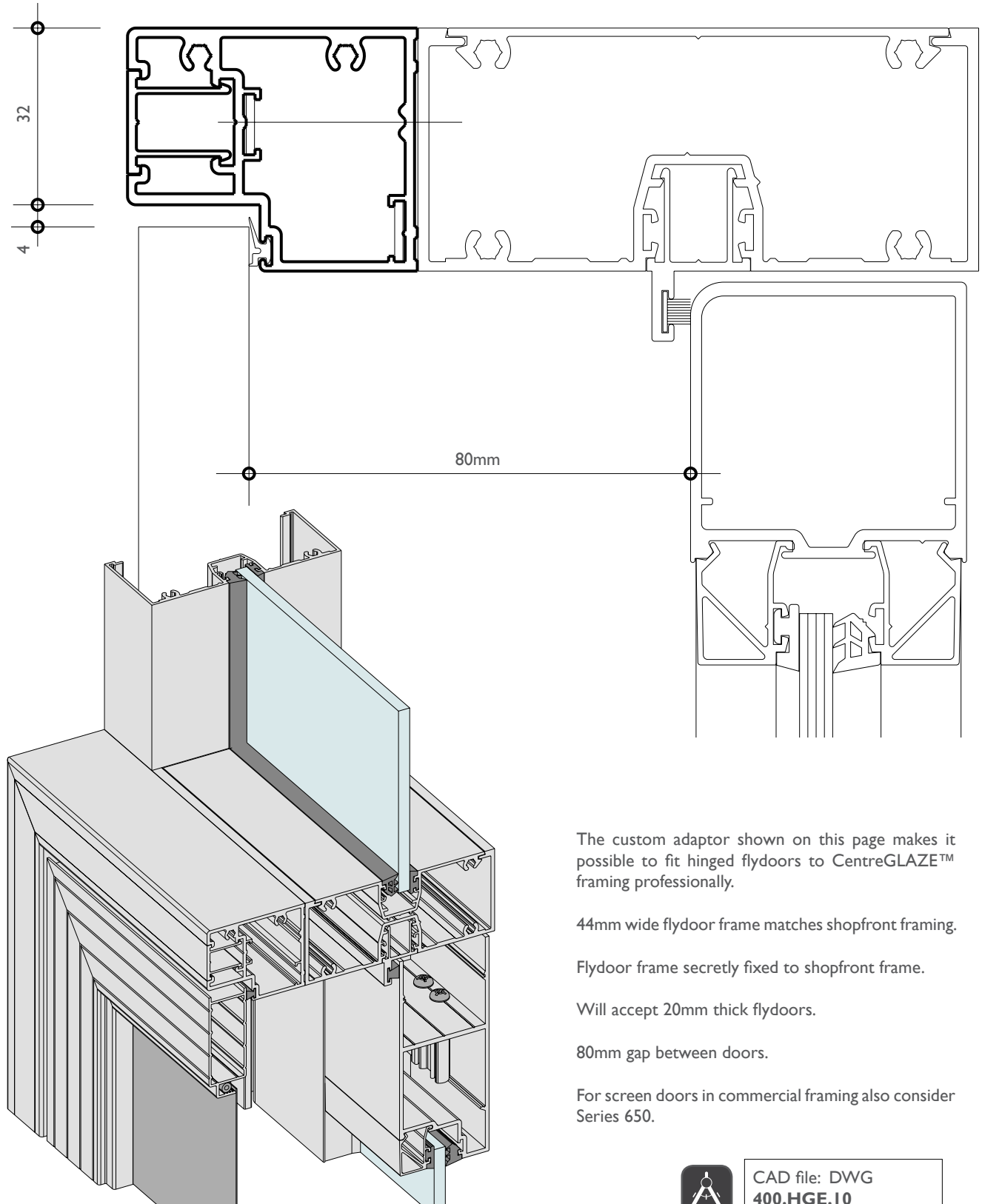


CAD file: DWG
417.LVR.8

Series 400
CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

FLYDOOR INLAY



The custom adaptor shown on this page makes it possible to fit hinged flydoors to CentreGLAZE™ framing professionally.

44mm wide flydoor frame matches shopfront framing.

Flydoor frame secretly fixed to shopfront frame.

Will accept 20mm thick flydoors.

80mm gap between doors.

For screen doors in commercial framing also consider Series 650.



CAD file: DWG
400.HGE.10

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ARCHITECTURAL AWNING AND CASEMENT WINDOWS

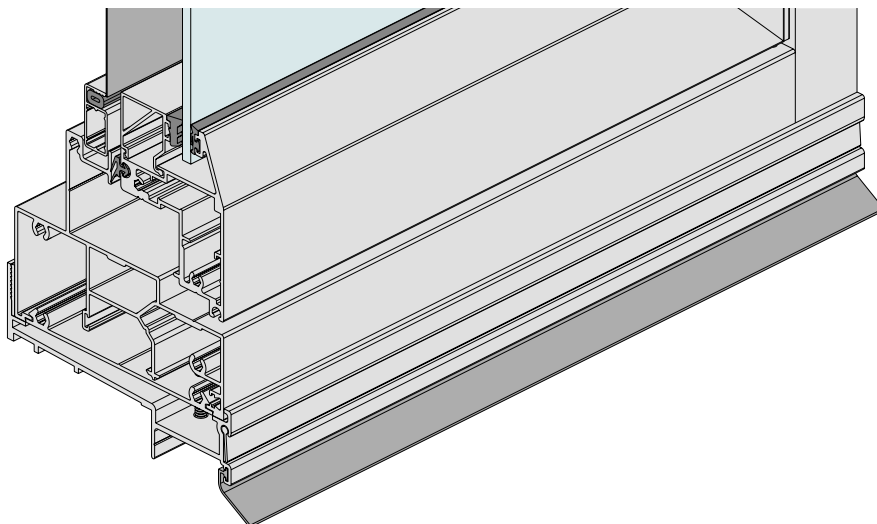
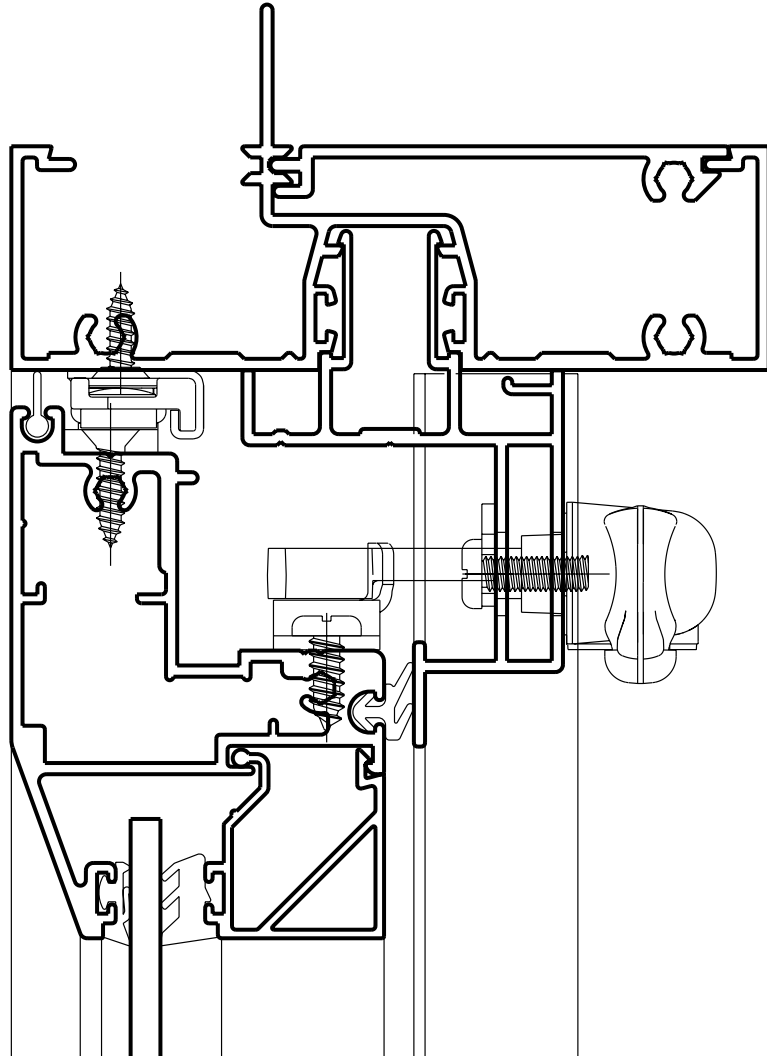
This Elevate™ Architectural commercial system has dedicated frame and jamb adaptor extrusions to accept custom heavy duty awning and casement sashes designed to accept Truth™ hardware.

The frame will accept flyscreens.

Heavy duty glass filled nylon corner stakes and gussets ensure that the sash corners are up to the job.

Sashes will accept glass from 4mm to 24mm thick.

See Series 467 for more details on this Architectural commercial window.



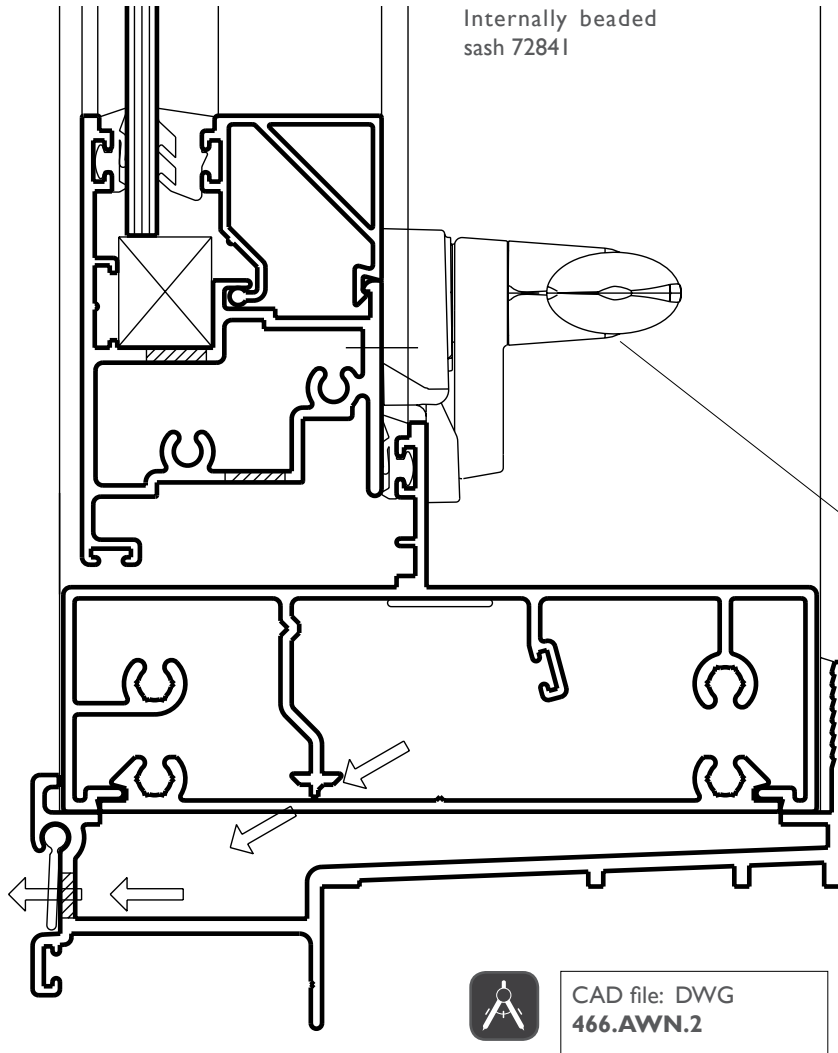
CAD file: DWG
467.AWN.I

Nailing fin sub-sill as shown left is standard on Series 467 windows.

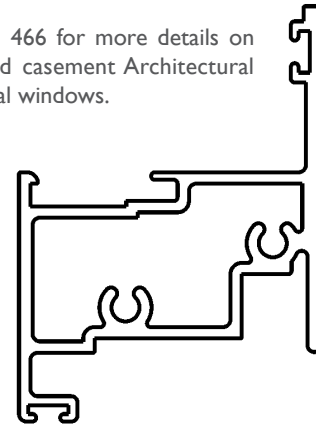
Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ARCHITECTURAL AWNING AND CASEMENT WINDOWS



Alternative externally beaded sash 72840.
See Series 466 for more details on awning and casement Architectural commercial windows.



MIRO™ Wedgeless cam handles.

These custom cam handles are designed to match other AWS hardware.

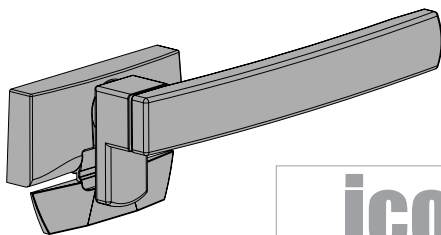
The important features with this type of cam handle:

- Keeper is part of the cam handle.
- No keeper fixings required through the weatherbar. Holes and screws or rivets through the weatherbar are potential leak spots.

Sub-sill standard on Series 466 windows.

See Series 466 for more details.

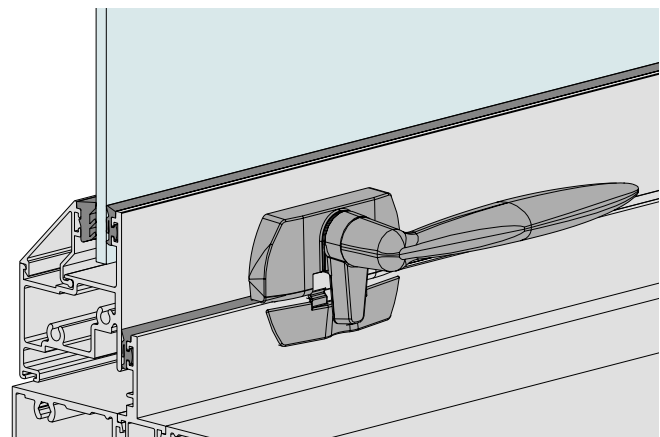
See the ICON™ and MIRO™ cam handles open and close on our website: www.elevatealuminium.com.au



icon

The cam cowling clips over the cam handle after fixing to sash. This conceals the cam to sash fixing screws.

Cam handle comes in left and right hand. Right hand cams illustrated above.

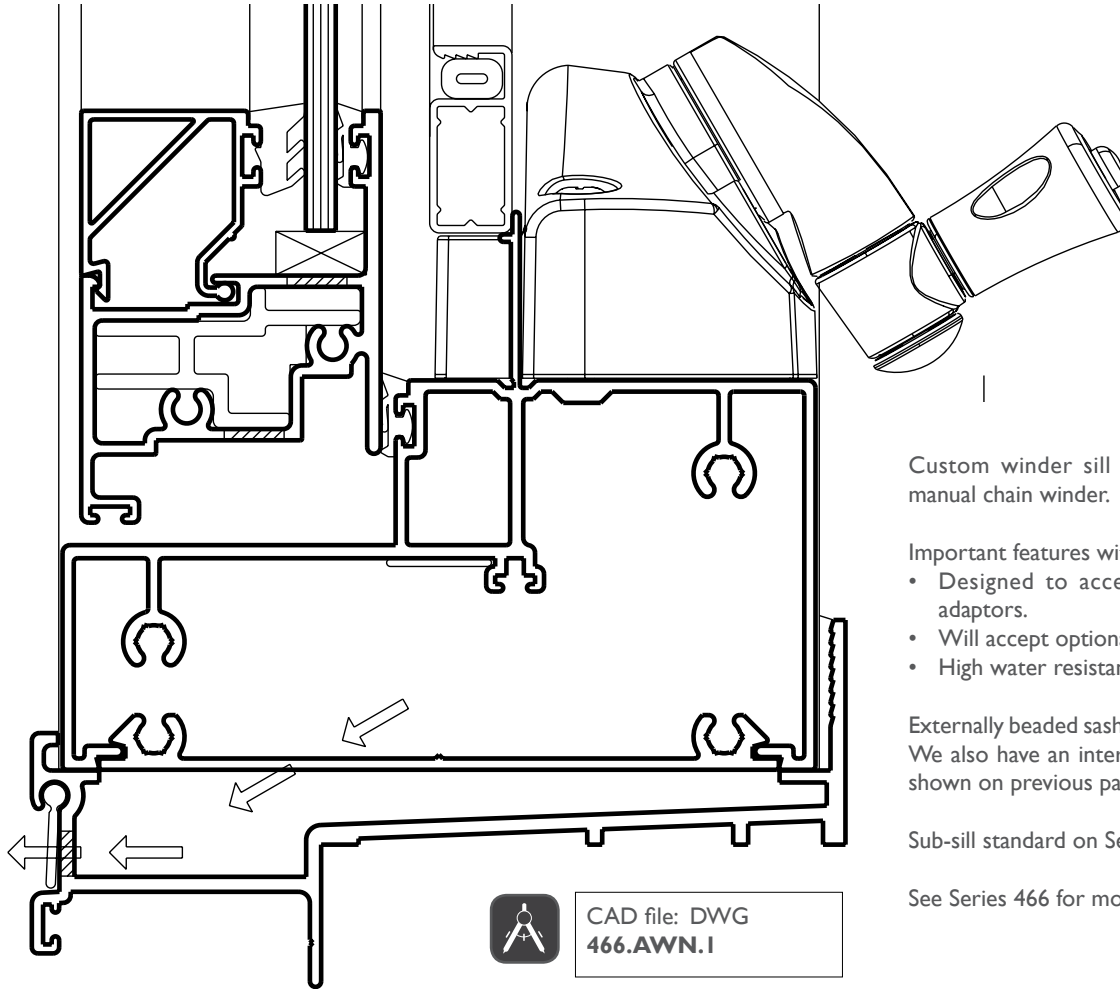


MIRO

Series 400
CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ARCHITECTURAL AWNING AND CASEMENT WINDOWS



Custom winder sill designed to accept manual chain winder.

Important features with this type of sill:

- Designed to accept winder without adaptors.
- Will accept optional flyscreens.
- High water resistance.

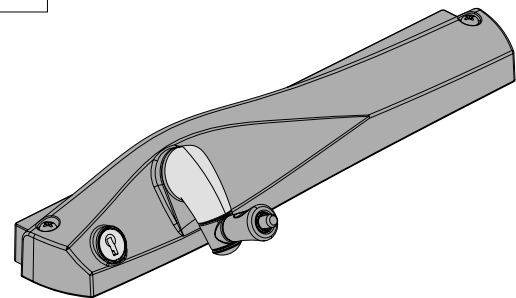
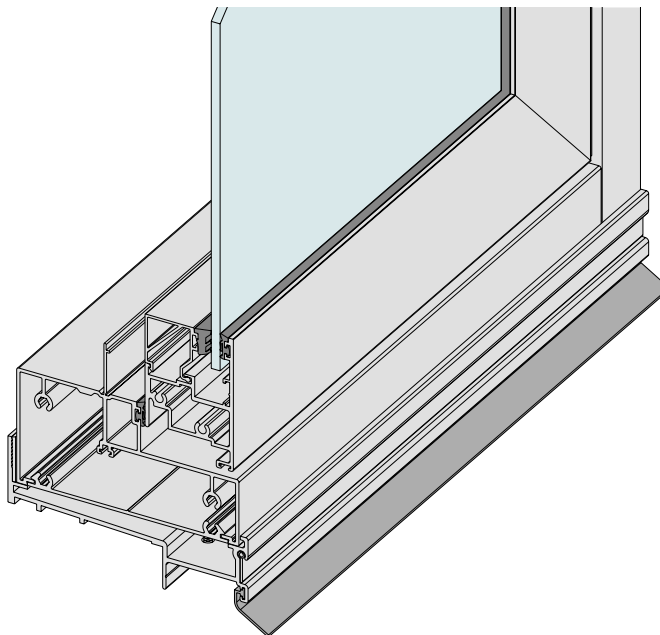
Externally beaded sash shown on this detail. We also have an internally beaded sash as shown on previous page.

Sub-sill standard on Series 466 windows.

See Series 466 for more details.



CAD file: DWG
466.AWN.I



Corrosion resistant chain winder features:

- 304 Stainless steel chain.
- Corrosion resistant nylon base.
- Key lockable.
- Fold down handle to clear curtains and blinds.

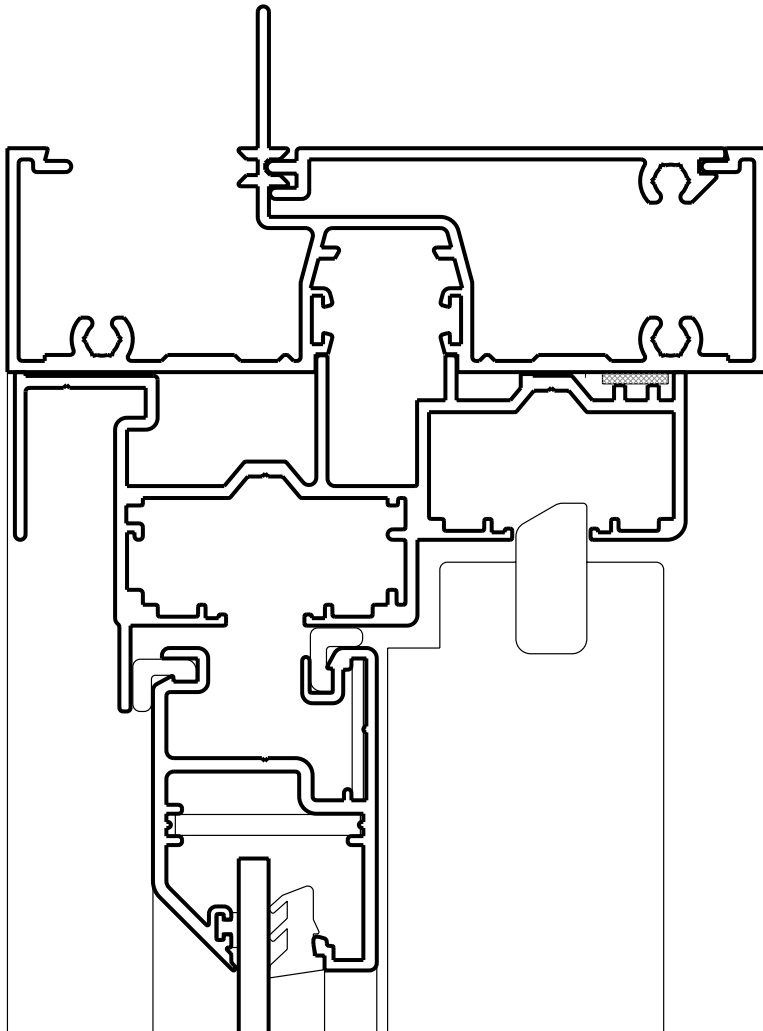
See the chain winder open and close on our website: www.elevatealuminium.com.au

This window can also be fitted with concealed electric winder.

Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ARCHITECTURAL DOUBLE-HUNG INLAY



Jamb

Standard 30mm nailing fin jamb shown above.

We have dedicated frames and sashes that allow us to fabricate this heavy duty Architectural window.

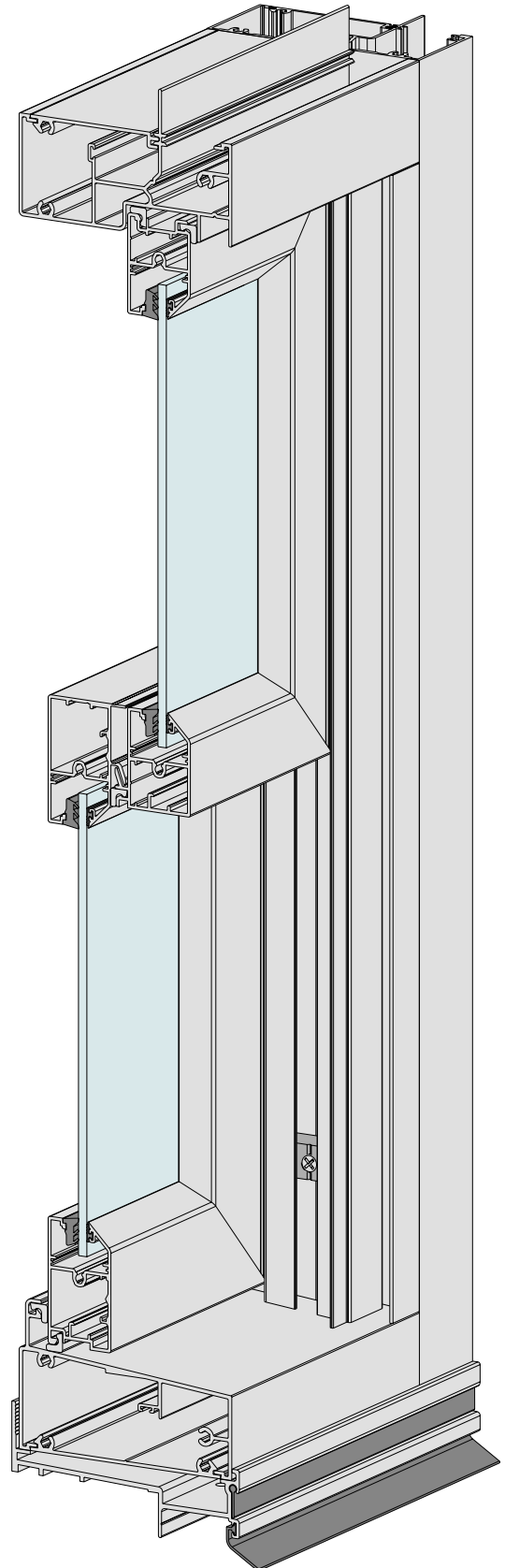
See Series 463 for more details on this Architectural commercial window.

Alternative 44mm wide jamb also available.

Sub-sill standard on Series 463 windows.



CAD file: DWG
463.DHW.I



Series 400 CentreGLAZE™ Framing

DATE: NOV 13
REPLACES: MARCH 08
SCALE: FULL SIZE & NTS

ARCHITECTURAL SASHLESS DOUBLE-HUNG WINDOW

Jamb

Alternative 44mm nailing fin jamb.

ClearVENT™ jamb insert has been designed to sit tight into the custom frame.

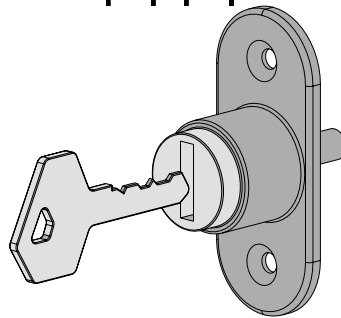
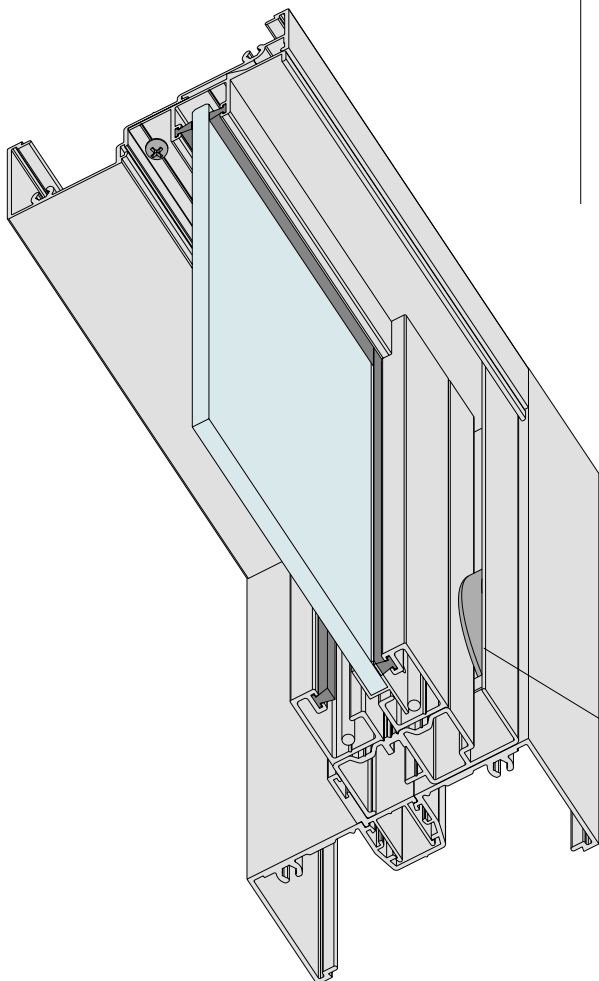
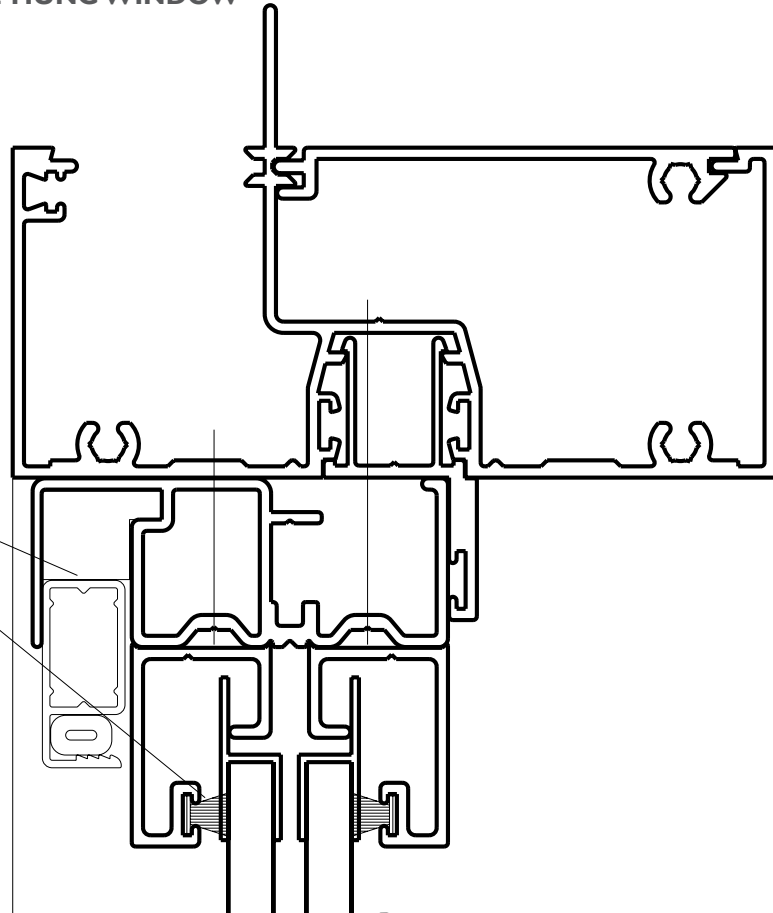
Elevate™ offer two types of ClearVENT™ insert:

- Flyscreen version (shown left).
- Non-flyscreen version - no external screen acceptor channel also available.

Custom optional extruded flyscreen.

Weatherpile sealed.

See Series 464 for more details on this Architectural commercial window. Including full size sections through head and sill.



ClearVENT™ panels can be secured with press button keylock, shown above.

Flyscreen retained with custom nylon clips that snap into screen acceptor channel - no rivets or turnbuckles required.

External view of head to jamb intersection with flyscreen option.

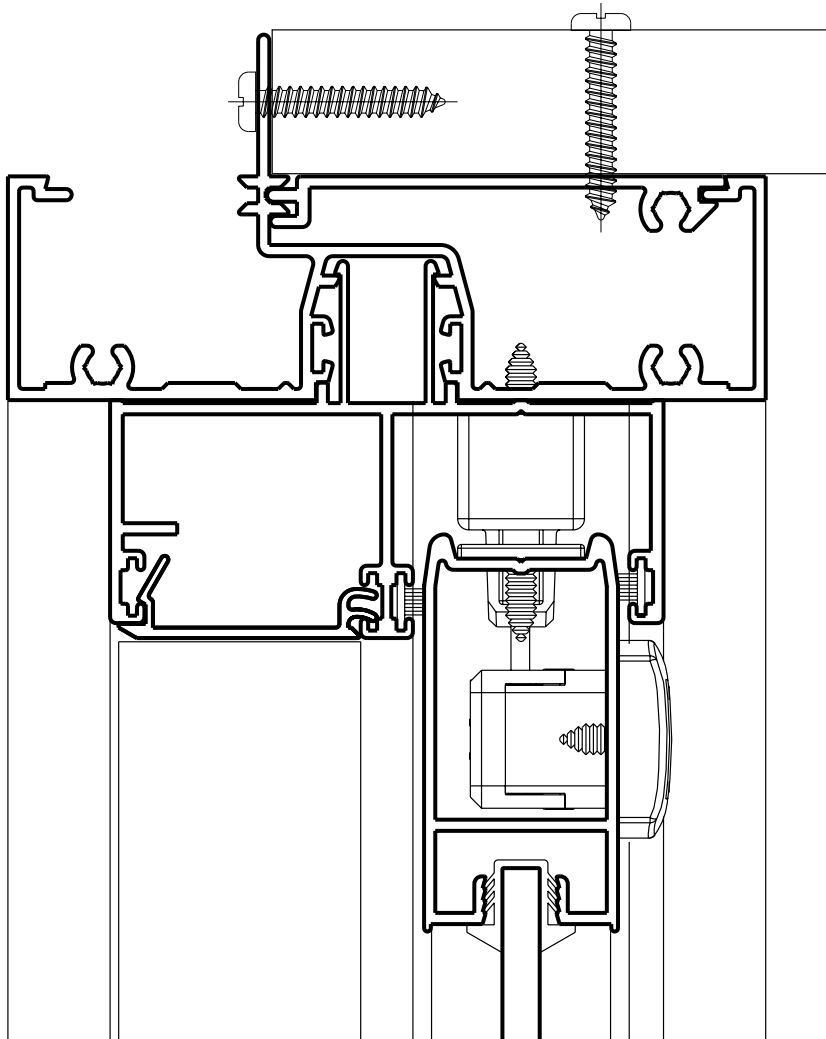


CAD file: DWG
464.CVT.1

Series 400
CentreGLAZE™ Framing

DATE: NOV 13
 REPLACES: MARCH 08
 SCALE: FULL SIZE & NTS

ARCHITECTURAL SLIDING WINDOW INLAY



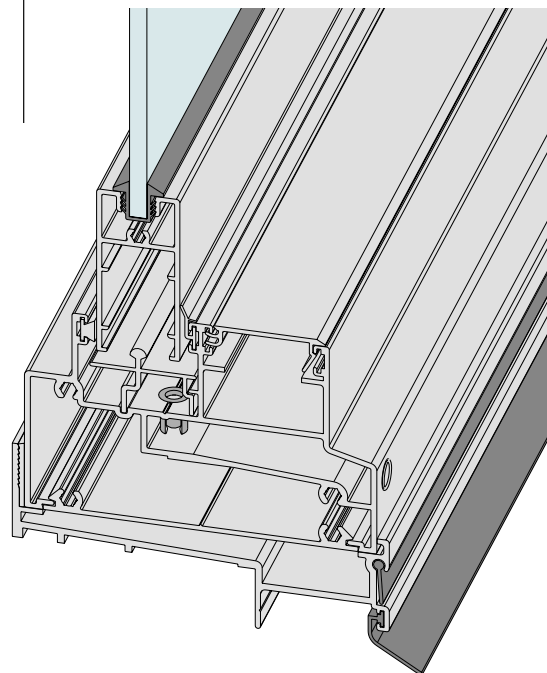
Jamb

We have dedicated frames and sashes that allow us to fabricate this heavy duty Architectural window.

Refer to Series 461 and 462 for more details on this Architectural commercial window. Including full size sections through head and sill.

30mm standard nailing fin frame illustrated. Alternative 44mm jamb also available.

Window can be fitted with surface mounted or mortice type locks. You can view the lock options in colour on our website www.elevatealuminium.com.au



Sub-sill standard on Series 462 windows.



CAD file: DWG or DXF
462.SLW.I