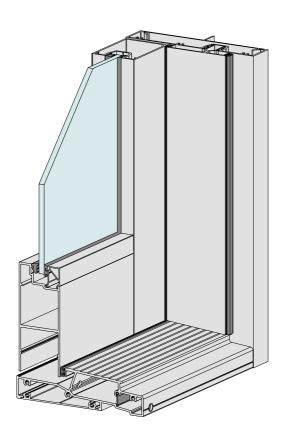
Series 650 Commercial Entry Door



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

KEY FEATURES/PERFORMANCE CHARACTERISTICS



- Entry door framing system designed to accept heavy duty 50mm thick commercial swing doors.
- 50mm thick door options including fully beaded. A major feature
 with these 50mm thick doors is strength, being approximately 70%
 stronger than industry standard 45mm thick stiles. Having stronger
 stiles is important when doors are high.
- Series 52 swing doors will accept insulating glass units up to 34mm thick.
- Four midrail sizes to choose from (50mm, 115mm, 125mm and 200mm deep).
- Two door thresholds cover both internal and external swing hinged doors.
- Sub-sills available for commercial applications.
- Snap-fit nailing fin adaptor for brick veneer and cavity brick installations.
- Will accept awning and casement sashes.
- Recessed clean fixed sidelights and highlights pocket glazed similar to commercial framing.
- Hinged flyscreen door/s can be fitted into the frame recess on the outside on internal swing hinged doors.
- Series 650 hinged doors can be fitted with a large variety of lever locks including multi-point lever compression locks.
- Series 650 can also be fitted with centre pivot doors.

Series 650 Hinged Entry Framing. External view.

| Maximum Panel Height* | 3000mm |
|-------------------------|--------|
| Maximum Panel Width* | 1000mm |
| Maximum Glass Thickness | ≤34mm |

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



2D & 3D CAD FILES AVAILABLE

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



MORE INFORMATION

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



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



WERS RATINGS

Single Glazed

| Window ID | Glass Type | Uw | SHGCw | Tvw | Inf |
|------------|-------------|-----|-------|------|------|
| AWS-033-01 | 5Clr | 6.0 | 0.60 | 0.63 | 0.04 |
| AWS-033-02 | 5SG | 6.0 | 0.42 | 0.52 | 0.04 |
| AWS-033-03 | 5Gy | 6.0 | 0.45 | 0.35 | 0.04 |
| AWS-033-04 | 6.38Sct | 4.4 | 0.49 | 0.57 | 0.04 |
| AWS-033-05 | 6.38VLam | 5.9 | 0.59 | 0.63 | 0.04 |
| AWS-033-06 | 6.38CPClr | 4.4 | 0.50 | 0.58 | 0.04 |
| AWS-033-07 | 4SnClr | 4.8 | 0.44 | 0.48 | 0.04 |
| AWS-033-08 | 6SnClr | 4.7 | 0.43 | 0.48 | 0.04 |
| AWS-033-09 | 6EVanBG | 4.5 | 0.33 | 0.40 | 0.04 |
| AWS-033-10 | 6EVanClr | 4.5 | 0.45 | 0.47 | 0.04 |
| AWS-033-11 | 6EVanGy | 4.5 | 0.30 | 0.23 | 0.04 |
| AWS-033-12 | 6EVanSpB | 4.5 | 0.26 | 0.27 | 0.04 |
| AWS-033-13 | 6EVanSpGn | 4.5 | 0.26 | 0.33 | 0.04 |
| AWS-033-14 | 6.38LamGy | 5.9 | 0.26 | 0.09 | 0.04 |
| AWS-033-15 | 6.38TLam | 5.9 | 0.30 | 0.23 | 0.04 |
| AWS-033-16 | 6.38SnClr | 4.7 | 0.42 | 0.48 | 0.04 |
| AWS-033-17 | 6.38SnGy | 4.7 | 0.32 | 0.23 | 0.04 |
| AWS-033-18 | 6.38CPClr | 4.4 | 0.50 | 0.58 | 0.04 |
| AWS-033-19 | 6.38CPGn | 4.4 | 0.37 | 0.50 | 0.04 |
| AWS-033-20 | 6.38CPGy | 4.4 | 0.36 | 0.27 | 0.04 |
| AWS-033-21 | 10SnClr | 4.7 | 0.42 | 0.47 | 0.04 |
| AWS-033-22 | 10.38LamClr | 5.7 | 0.46 | 0.47 | 0.04 |
| AWS-033-23 | 10.38LamGy | 4.7 | 0.42 | 0.47 | 0.04 |
| AWS-033-24 | I 0.38Tlam | 4.3 | 0.37 | 0.42 | 0.04 |
| AWS-033-25 | 10.38SnClr | 4.6 | 0.40 | 0.46 | 0.04 |

- I. Uw is the whole window U-value
- 2. SHGCw is the whole window solar heat gain coefficient
- 3. Tvw is the whole window visible (light) transmittance
 4. Maximum air infiltration is 5.0L/s.m2 at a positive pressure difference of 75 Pa as measured according to AS 2047
- 5. Static performance (Uw SHGCwTvwTdw) 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 System Series 650 Commercial Entry Door

FINISH

Powder Coat

Anodised

COLOUR

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

GLASS

Specify thickness ≤24mm

Specify thermal performance where applicable (Uv & SHGC)

Specify acoustic performance where applicable (RW)



Specification . Assistance

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



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Series 650 COMMERCIAL ENTRY DOOR

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

SPECIFIER'S CHECKLIST

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

DESIGN FEATURES

DESIGN FEATURES

Offset 150 x 30mm and 44mm pocket glazed entry door framing system designed to accept heavy duty 50mm thick commercial swing doors.

Three 50mm wide door options including fully beaded. These heavy duty 50mm thick commercial doors are ideal for oversize door panels, refer ratings tables later in these notes.

50mm thick doors when compared to industry standard 45mm are approximately 70% stronger and ideal for tall panels.

Series 52 swing doors will accept 24mm thick insulating glass.

Four midrail sizes to choose from (50mm, 115mm, 125mm and 200mm deep).

The Elevate[™] doors that go with Series 650 framing will accept a variety of commercial locks and the proprietary ANDO™, MIRO™ or ICON™ locks. These locks are available in multipoint locking and will significantly improve water resistance and security.

Two door thresholds cover both internal and external swing hinged doors.

Sub-sills available for commercial applications.

Snap fit nailing fin adaptor for brick veneer and cavity brick installations.

Will accept awning and casement sashes.

Recessed clean fixed sidelights and highlights pocket glazed similar to commercial framing.

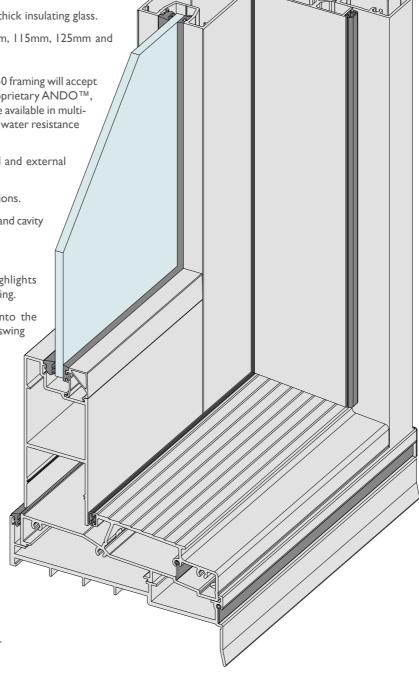
Hinged flyscreen door/s can be fitted into the frame recess on the outside on internal swing hinged doors.

Compatibility:

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

- Series 702 SlideMASTER™ high performance sliding door (150mm).
- Series 704 SlideMASTER™ Commercial architectural sliding door (150mm).
- Series 600 Wide Offset 150mm Framing
- Series 620 Single Glazed Centre Glazed 150mm Framing
- Series 624 Double glazed CentreGLAZE™ framing.
- Series 626 Double glazed FrontGLAZE™ framing.

Illustration shows sill sitting in optional sub-sill.





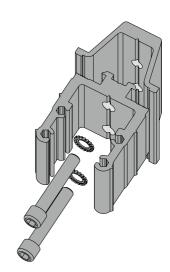
DATE: MAY 13
REPLACES: JUNE 06
SCALE: FULL SIZE & NTS

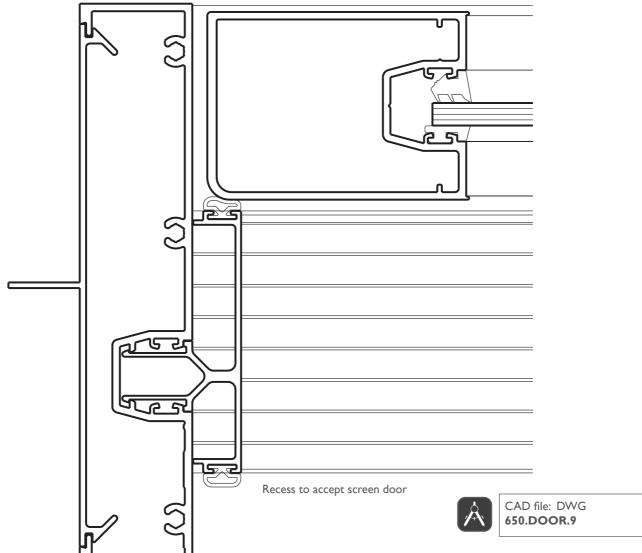
FRAME DESIGN FEATURES

SERIES 650 – STANDARD 30mm NARROW JAMB

Features:

- The standard 30mm jamb matches other Elevate™ Architectural Series windows.
- We also offer an alternative 44mm wide jamb for those customers looking for bold, wide framing.
- Jamb can be fitted with nailing fin adaptor for brick veneer or cavity brick installations.
- Custom door stop designed to allow screen doors to be fitted on the outside if required.
- Co-extruded Santoprene seal between door panel and frame ensures that most of the water stays on the outside.
- $\bullet\,$ The detail right shows the heavy duty corner spigots used on Series 50 doors.





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

FRAME DESIGN FEATURES

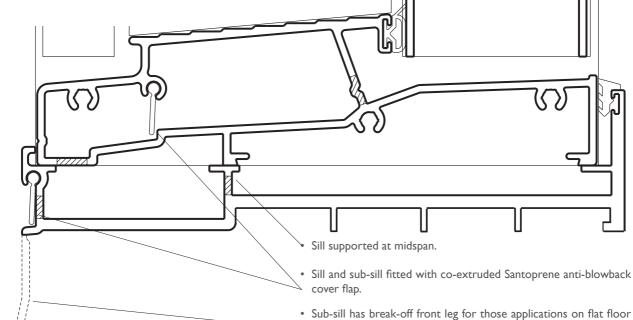
SERIES 650 - SILL DESIGNED FOR HEAVY DUTY 50mm DOORS

The advantage with heavy duty doors are obvious:

- Tall doors require stiles that can withstand the wind loads. 50mm thick stiles are significantly stronger (approximately 70%) than industry standard 45mm thick light duty doors.
- Doors are only as good as the joinery (stile to rail junction). Elevate™
 Series 50 and 52 doors are fitted with heavy duty aluminium spigots and
 backing plates.
- These commercial grade doors can be fitted with custom glass blocking system that allows the panels to be jacked back into square to match the frame if necessary.
- Besides the standard square glazing bead shown right, we offer 25° and 45° splayed beads. On the double beaded Series 52 door we also offer beads that will accept insulating glass units (IGU's) up to 34mm thick.
- Doors and adjoining fixed sidelights can be fitted with a variety of midrails
 as detailed later in these notes. A production feature with our glazing
 pocket is the ability to use the same midrail in doors and the fixed sidelight
 using the screw ports on the fixed lights, refer details later in these notes.
- The custom sill shown below suits internal swing doors. This detail is rated at 300Pa water resistance with sub-sill and 150pa water resistance without sub-sill.
- Co-extruded Santoprene seal between door panel and frame ensures that most of the water stays on the outside.



CAD file: DWG 650.DOOR.7



slab

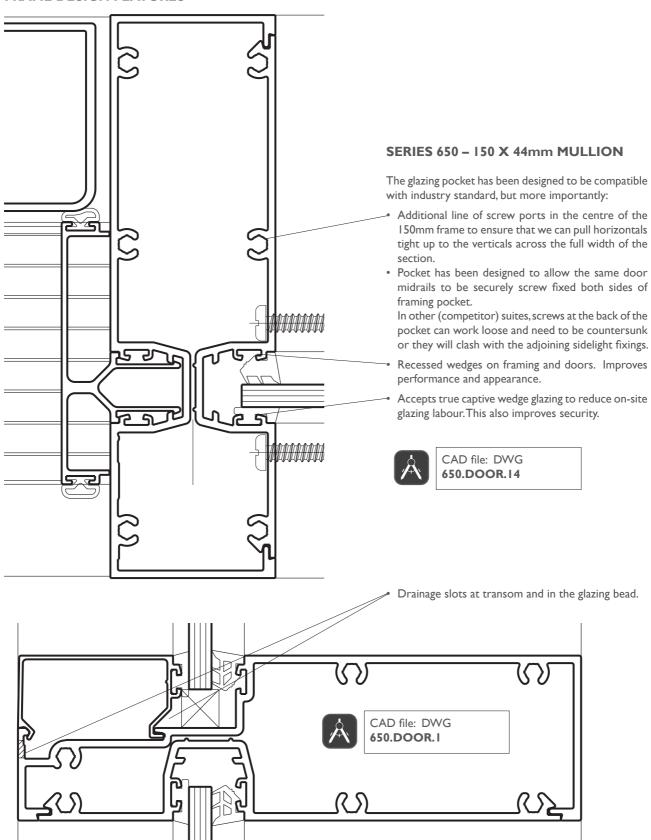
floor finish.



Note: For the best finish, recess the internal edge of sill into the

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

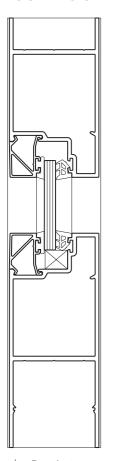
FRAME DESIGN FEATURES





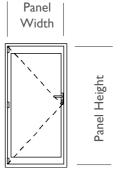
DATE: MAY 13
REPLACES: JUNE 06
SCALE: HALF SIZE

DOOR DESIGN FEATURES - SERIES 50



FEATURES

- 50mm wide doors are significantly stronger (approximately 70%) than industry standard 45mm wide doors. Basically 50mm wide doors are ideal for overheight doors – they comply.
- Series 50 doors have removable snap-on glazing beads on horizontals and wrap around stiles as shown on this page.
- Stile to rail joint is securely fixed with custom spigot assembly as shown above.
- Door glass can be blocked with custom stile glazing block and adjustable setting block as shown later in these notes.
- Series 50 doors will accept glass up to 10.50mm thick.
- Horizontal rails can be fitted with square or splayed glazing beads.
- 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 200m deep.
- Lock stile wide enough to accept most lock types.
- · Rebated French meeting stiles.
- Dedicated hardware makes life easier.



Maximum Recommended Series 50 Door Panel Sizes

Hinge quantity 3 hinges – height less than or equal to 2200mm.

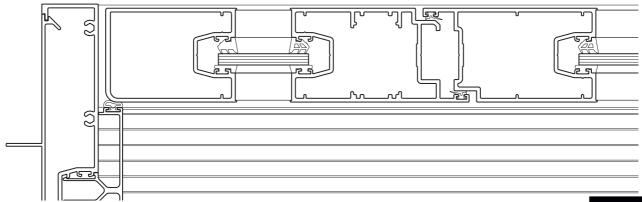
4 hinges – height greater than to 2200mm.

Maximum weight with 3 hinges 30 kg

with 4 hinges 50 kg

Maximum panel width 1000mm

Maximum panel height 3000mm (subject to wind load)

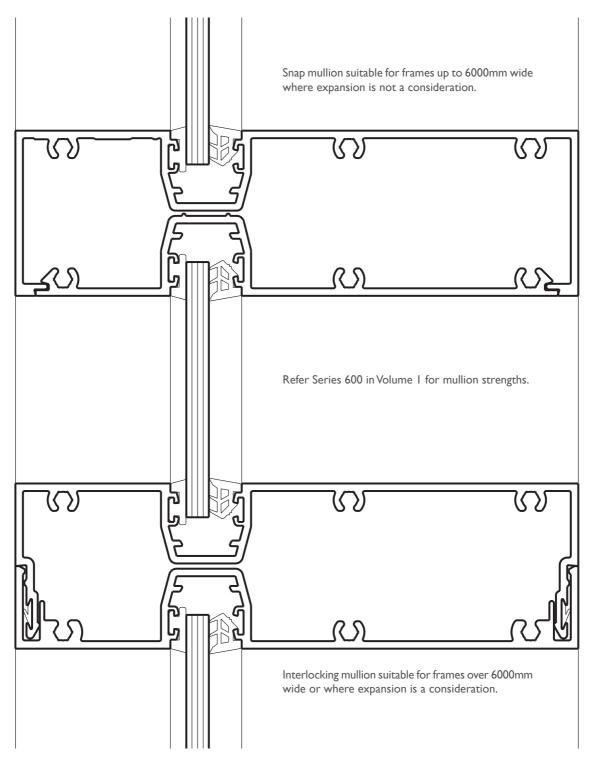




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Series 650 COMMERCIAL ENTRY DOOR

FIXED MULLIONS





DATE:

SCALE:

REPLACES:

MAY 13

JUNE 06

FULL SIZE

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

MULLION STRENGTH

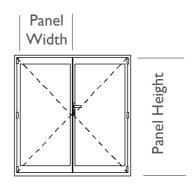
Don't ignore the strength of the door meeting stiles.

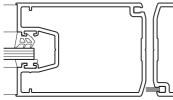
S = Serviceability limit state (deflection = L/250).

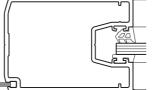
U = Ultimate strength limit state (factored yield strength = 104 MPa).

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.

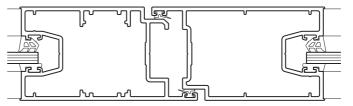






U

1879 2209



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

Rebated French meeting stiles (Series 50/51 illustrated)

| Pivot D | oor Mee | ting Stile | Strength | Guide |
|---------|---------|------------|-----------|------------|
| Panel | Panel | Ratings - | Pivot mee | ting stile |

| Panel | Panel | Ratings - Pivot meeting stiles | | | | | |
|--------|-------|--------------------------------|---|------|--|------|--------------|
| Height | Width | Series 50 & 51 | | | | Seri | es 52 |
| mm | mm | s | | U | | S | U |
| 2100 | 700 | 139 | 5 | 4492 | | 1070 | 343 |
| 2100 | 800 | 123 | 8 | 3978 | | 950 | 303 |
| 2100 | 900 | 111 | 8 | 3584 | | 858 | 273 |
| 2100 | 1000 | 102 | 5 | 3276 | | 786 | 250 |
| 2400 | 700 | 92. | 5 | 3409 | | 710 | 260 |
| 2400 | 800 | 818 | 3 | 3009 | | 627 | 229 |
| 2400 | 900 | 736 | 5 | 2703 | | 565 | 200 |
| 2400 | 1000 | 67 | | 2461 | | 515 | 187 |
| 2600 | 700 | 724 | 4 | 2892 | | 555 | 220 |
| 2600 | 800 | 639 | 9 | 2550 | | - | - |
| 2600 | 900 | 574 | 1 | 2286 | | - | - |
| 2600 | 1000 | 523 | 3 | 2078 | | - | - |
| 2800 | 700 | 577 | 7 | 2485 | | - | - |
| 2800 | 800 | 509 |) | 2189 | | - | - |
| 2800 | 900 | - | | - | | - | - |
| 2800 | 1000 | - | | - | | - | - |
| 3000 | 700 | - | | - | | - | - |
| 3000 | 800 | - | | - | | - | - |
| 3000 | 900 | - | | - | | - | - |

| Ratings | - | Rebated | French | meeting | stiles |
|---------|---|---------|--------|---------|--------|

| Series 50 & 51 | | Serie | es 52 |
|----------------|------|-------|--------------|
| S | U | S | U |
| 1741 | 5000 | 1416 | 4310 |
| 1545 | 4764 | 1256 | 3816 |
| 1395 | 4293 | 1135 | 3439 |
| 1278 | 3923 | 1040 | 3143 |
| 1154 | 4083 | 939 | 3270 |
| 1020 | 3604 | 830 | 2887 |
| 918 | 3237 | 747 | 2593 |
| 838 | 2947 | 681 | 2361 |
| 903 | 3464 | 734 | 2775 |
| 797 | 3054 | 648 | 2446 |
| 716 | 2738 | 582 | 2193 |
| 652 | 2489 | 530 | 1994 |
| 720 | 2976 | 586 | 2384 |
| 635 | 2621 | 516 | 2100 |
| 569 | 2348 | - | - |
| 518 | 2131 | - | - |
| 583 | 2586 | - | - |
| 514 | 2275 | - | - |
| - | - | - | - |
| - | - | - | - |



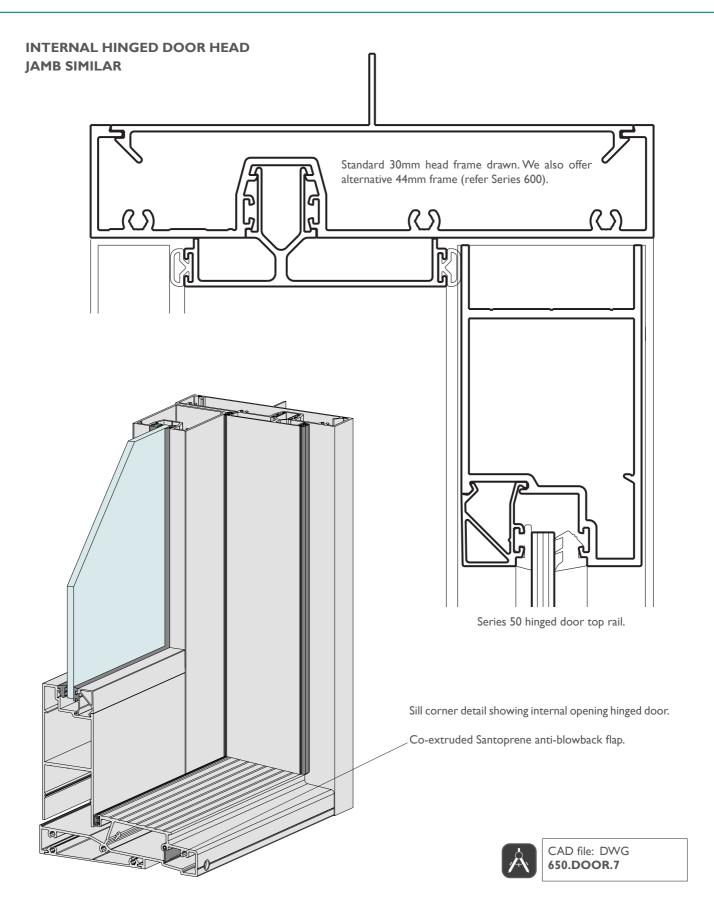
1000

3000

DATE: MAY 13

REPLACES: JUNE 06

SCALE: FULL SIZE & NTS



DATE: MAY 13 REPLACES: JUNE 06

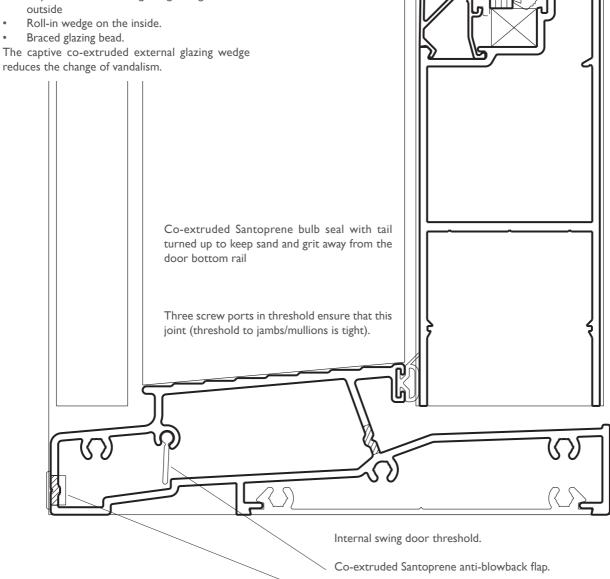
FULL SIZE & NTS SCALE:

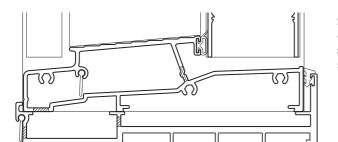
INTERNAL HINGED DOOR SILL

Detail right shows standard glazing detail:

- Captive co-extruded glazing wedge on the outside
- Braced glazing bead.

The captive co-extruded external glazing wedge





Sill can be fitted into custom stepped sub-sill as detailed left for even higher water resistance, sub-sill also fitted with anti-blowback flap to cover drainage slots.

Drainage holes.

CAD file: DWG 650.DOOR.7

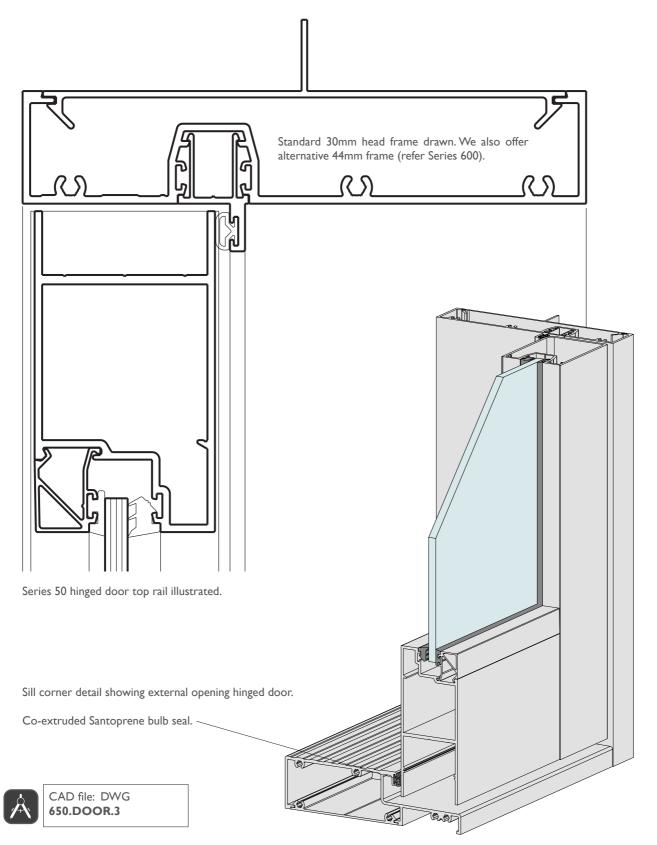


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Series 650 COMMERCIAL ENTRY DOOR

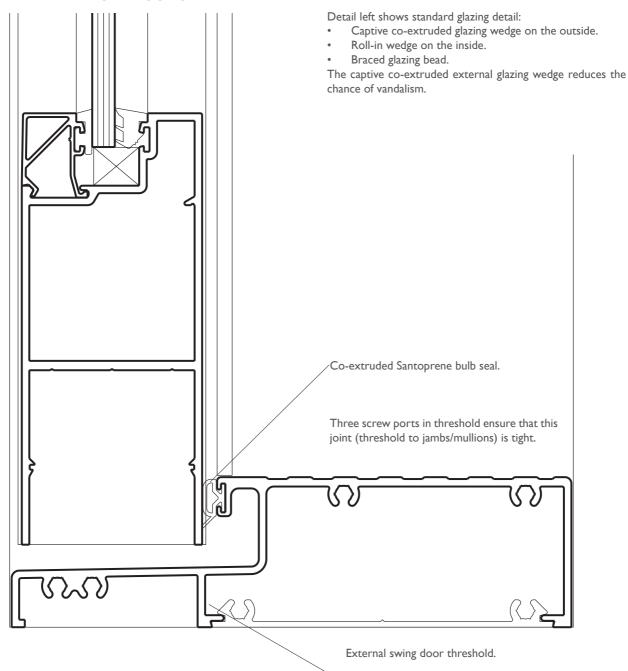
DATE: MAY 13
REPLACES: JUNE 06
SCALE: FULL SIZE & NTS

EXTERNAL HINGED DOOR HEAD JAMB SIMILAR



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

EXTERNAL HINGED DOOR SILL





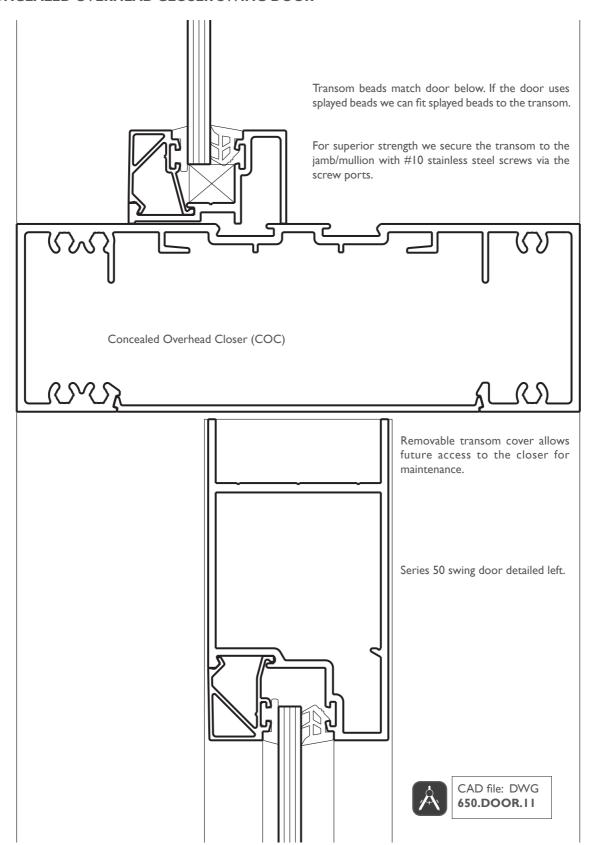


Threshold fitted with central support leg, this supports the threshold when dead load (shoe or

wheelchair) is applied.

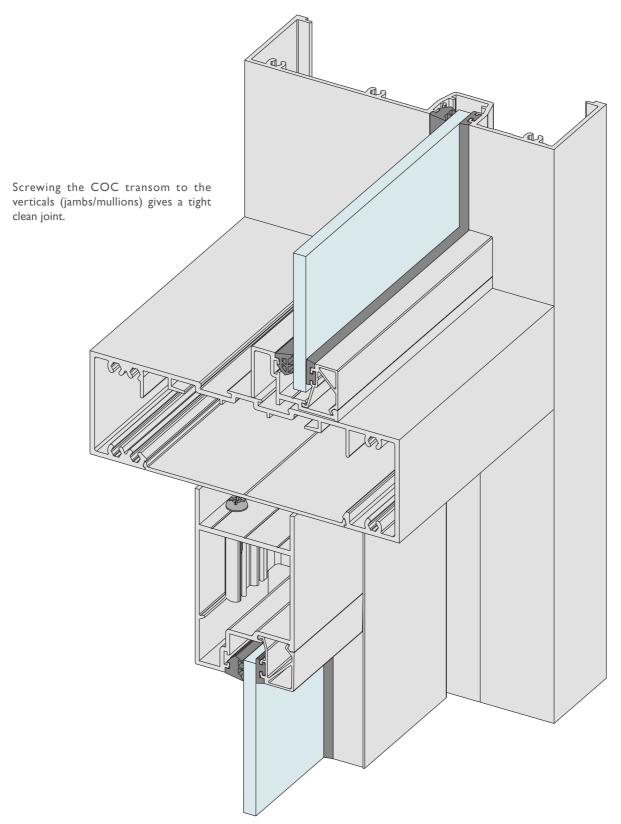
DATE: MAY 13
REPLACES: JUNE 06
SCALE: FULL SIZE

CONCEALED OVERHEAD CLOSER SWING DOOR



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

CONCEALED OVERHEAD CLOSER SWING DOOR





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

AWNING/CASEMENT INLAY

Non-facing Awning and Casement sashes can be inlaid into Series 650 framing using custom inlay adaptor.

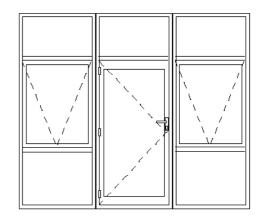
Sashes can be fitted with a large variety of hardware as shown on these pages:

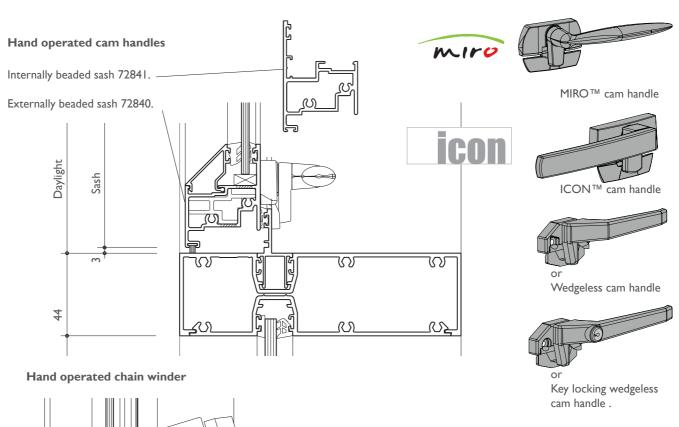
- MIRO™ cam handles.
- ICON™ cam handles
- · Wedgeless cam handles.
- · Manually operated chain winders.
- · Concealed electrically operated winders.

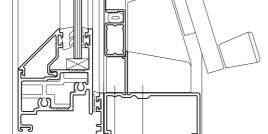
Notes:

If you want to fit flyscreens, fit one of the winder options.

If the sashes are elevated (over doors) consider using electric winders.







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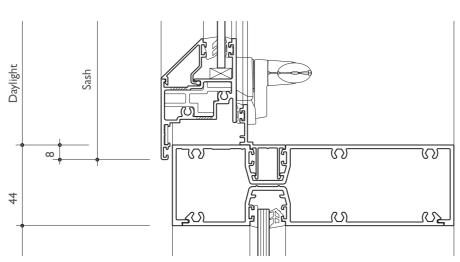


CAD file: DWG 600.AWN.2

DATE: MAY 13 REPLACES: JUNE 06 SCALE:

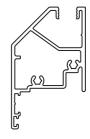
HALF FULL SIZE

FACING AWNING SASH OPTIONS

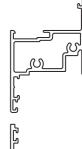


72836 Wraparound 40mm thick sash.

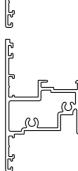
Alternative facing sashes



72837 Externally beaded 40mm thick sash.



72838 Internally beaded 40mm thick sash.

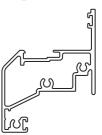


Glazing beads

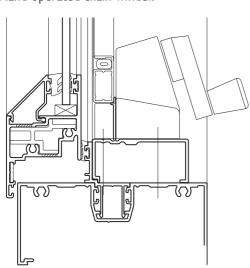
Hand operated cam handles.

We have a large range of splayed and square glazing beads that will accept glass up to 24mm thick.

72839 Externally beaded 50mm thick sash.



Hand operated chain winder.





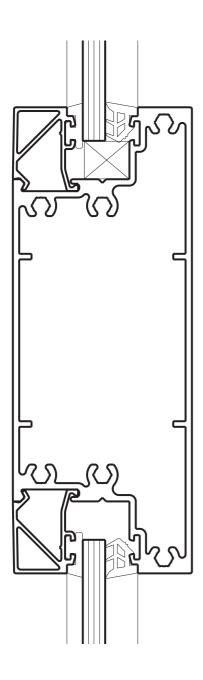


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Series 650 COMMERCIAL ENTRY DOOR

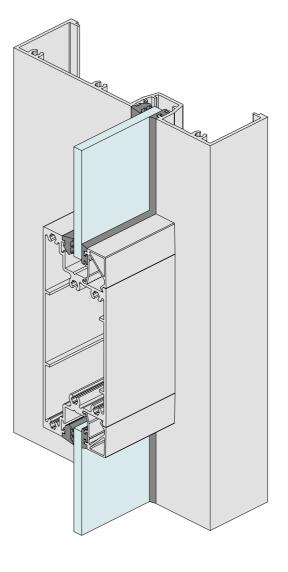
DATE: MAY 13
REPLACES: JUNE 06
SCALE: FULL SIZE & NTS

TYPICAL MIDRAIL



125mm standard midrail illustrated left, we also offer 50mm, 115mm and 200mm midrails.

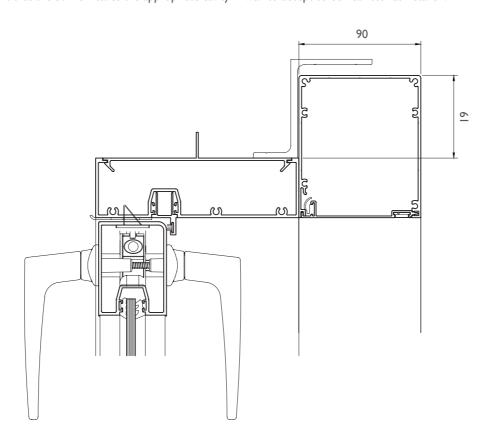
The glazing pocket is designed to allow Elevate[™] midrails to be screwed to verticals via screw ports as shown right.

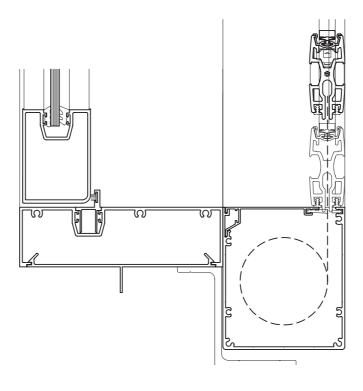




DATE: AUG 20
REPLACES: MAY 13
SCALE: NOT TO SCALE

CENTOR S4 SCREEN OPTION - EXTERNAL SWING DOOR WITH SINGLE SCREEN

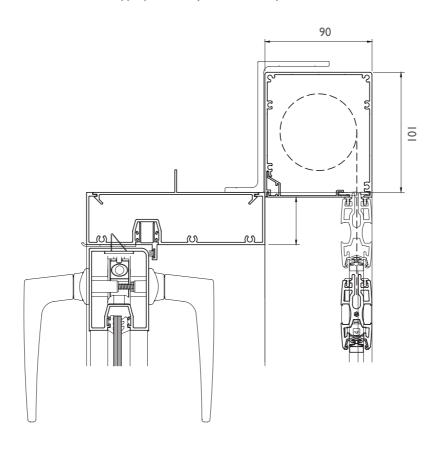


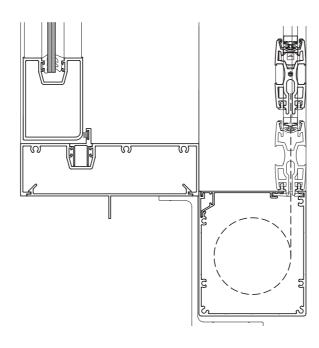




DATE: AUG 20
REPLACES: MAY 13
SCALE: NOT TO SCALE

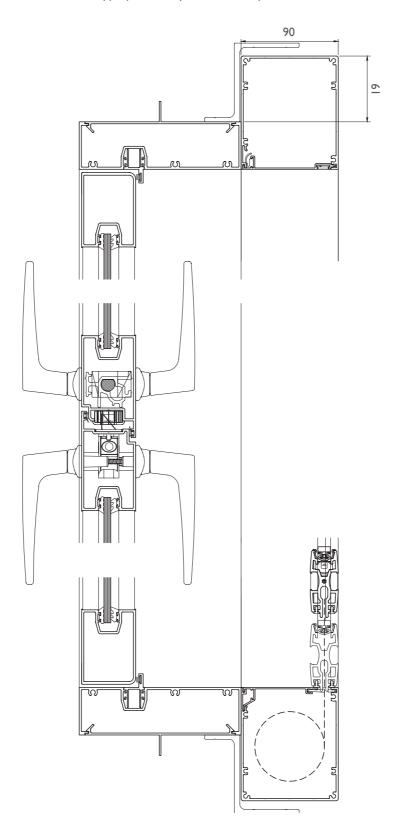
CENTOR S4 SCREEN OPTION - EXTERNAL SWING DOOR WITH DOUBLE SCREEN





DATE: AUG 20
REPLACES: MAY 13
SCALE: NOT TO SCALE

CENTOR S4 SCREEN OPTION - EXTERNAL SWING DOUBLE HINGED DOOR WITH SINGLE SCREEN





DATE: AUG 20
REPLACES: MAY 13
SCALE: NOT TO SCALE

CENTOR S4 SCREEN OPTION - EXTERNAL SWING DOUBLE HINGED DOOR WITH DOUBLE SCREEN

