Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 1

Max 100 Front Double Glazed - 40mm Pocket

FEATURES:

- 100mm Frame Depth
- 50mm Sight Line generally
- Glass Plane-Front
- Compatible with 150mm Front Glazed -40mm Pocket allowing glass in different planes
- Accepts 28mm to 34mm IGU's
- Single Glazed Spandrel adaptor option
- Eliminates ugly visible drain slots in the face of transoms
- Can be Internal or External glazed
- Awning & Casement Sash options
- Hinged, Pivot, Sliding & Multi sliding door tracks
- Accepts standard 45mm Double Beaded & Max 50mm Pocket Glazed Doors
- Dry Glazed with High performance Santoprene Gaskets
  - o Anti Stretch Gaskets
  - o Anti-Dropout Gasket Design
- Suited to wet glazed if preferred
- Watershed -Concealed Transom drainage system
- Screw fixing in front of glazing pocket to support transom

FABRICATION:

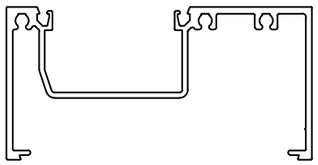
- Easy Screw Flute Joinery Fabrication
- Simple Panelized Assembly

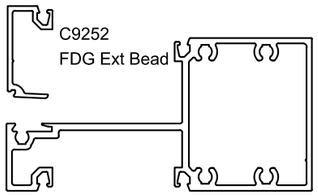
PRODUCT APPLICATIONS:

- Shopfront, Ribbon Windows or Punched Openings
- Generally Single Span, limited to 6.5 metre high applications

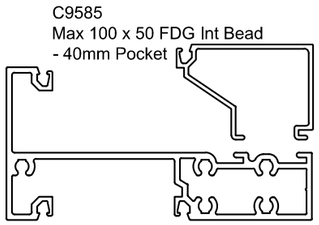
Arte Apartments, Canberra
MAX™ 100mm Front Double Glazed frames

Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 2
Extrusion ID

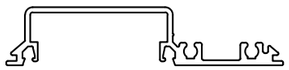

C9582
Max 100 x 50 FDG Frame - 40mm Pocket

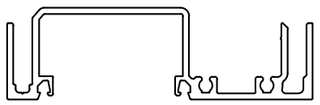


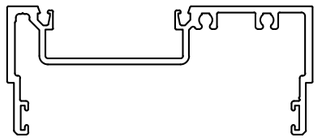
C9583
Max 100 x 50 FDG Ext Sill/Tsm - 40mm Pocket

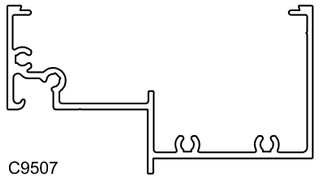


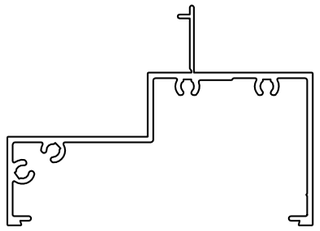
C9584
Max 100 x 50 FDG Int Sill/Tsm - 40mm Pocket

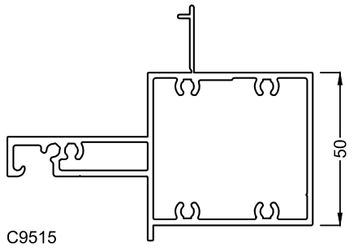

C9588
100 FDG-40 Pocketed Filler


C9586
Max 100 x 50 FDG Male Mull - 40mm Pocket

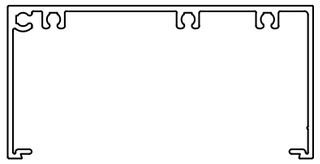

C9587
Max 100 x 50 FDG Female Mull - 40mm Pocket


C9507
100 x 50 Hinge Head

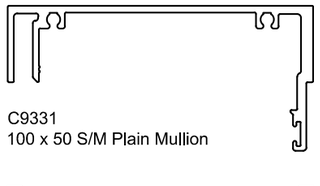

C9508
100 x 50 Winder Sill

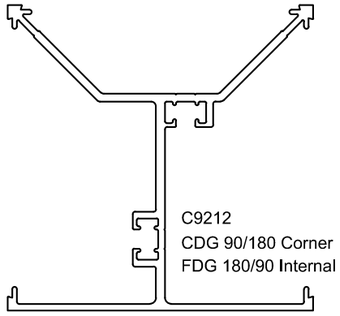


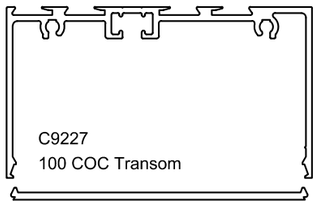
C9515
Double Hinge Head Transom

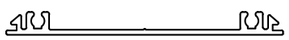

C9502
100 x 50 Plain Frame


C9604
100 x 25 Plain Frame

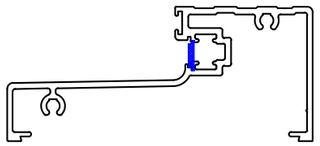

C9331
100 x 50 S/M Plain Mullion

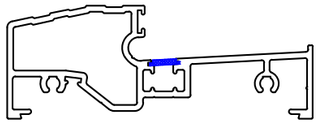

C9212
CDG 90/180 Corner
FDG 180/90 Internal


C9227
100 COC Transom
C9228
COC Filler Plate

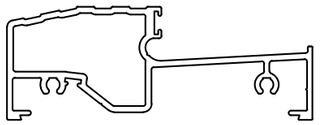

C9321
100 Flat Filler - screw flutes


C405
100 Flat Filler

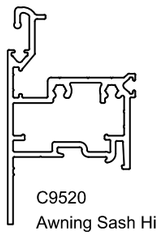

C9229
100 Threshold Open Out (50 door)


C9230
100 Threshold Open IN (50 door)

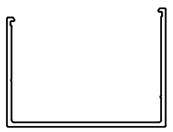
C9622
100 Threshold Open Out (45 door)

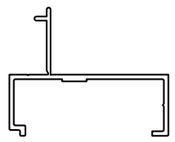

C9623
100 Threshold Open IN (45 door)


C9589
FDG Sash Adaptor
suit C9519, C9241

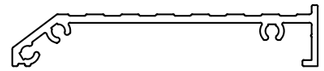

C9520
Awning Sash Hinge Head

C9244
Winder Box Cover

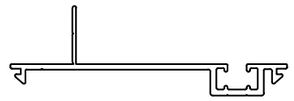

C9243
Elevation Motorised Winder Box

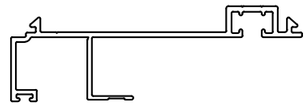

C9242
Winder Support

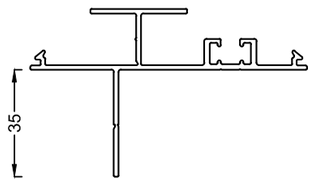

C200R
25 x 11 Extruded Screen


C9621
100 x 20 Flat Threshold

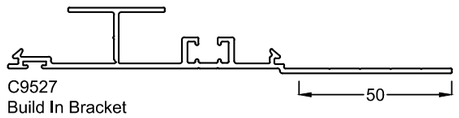

C469
100 x 13 Wheelchair Threshold


C9205
100 Nailing Fin

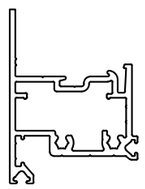

C9608
In Line Reveal Adaptor

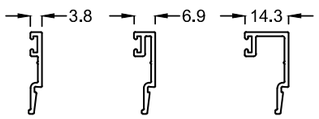


C9266 (replaces C9626)
Build In Adaptor



C9527
Build In Bracket

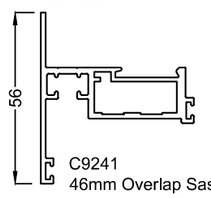

C9519
Inset Sash



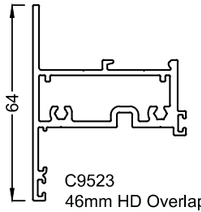
C9249
Bead
35 Gap

C9246
Bead
31 Gap

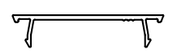
C9247
Bead
25 Gap



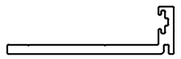
C9241
46mm Overlap Sash
suit CH1317 cornerstake

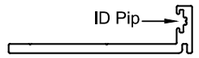


C9523
46mm HD Overlap Sash (16mm stays)
suit CH131737 cornerstake


C9598
100 Flush Filler - 40 Pocket


C9232
Hinge Backing Plate


C9809
Plant On Door Stop
(45 door)



C9565
Max Plant On Door Stop
(50 door)


C9810
Spandrel Adaptor

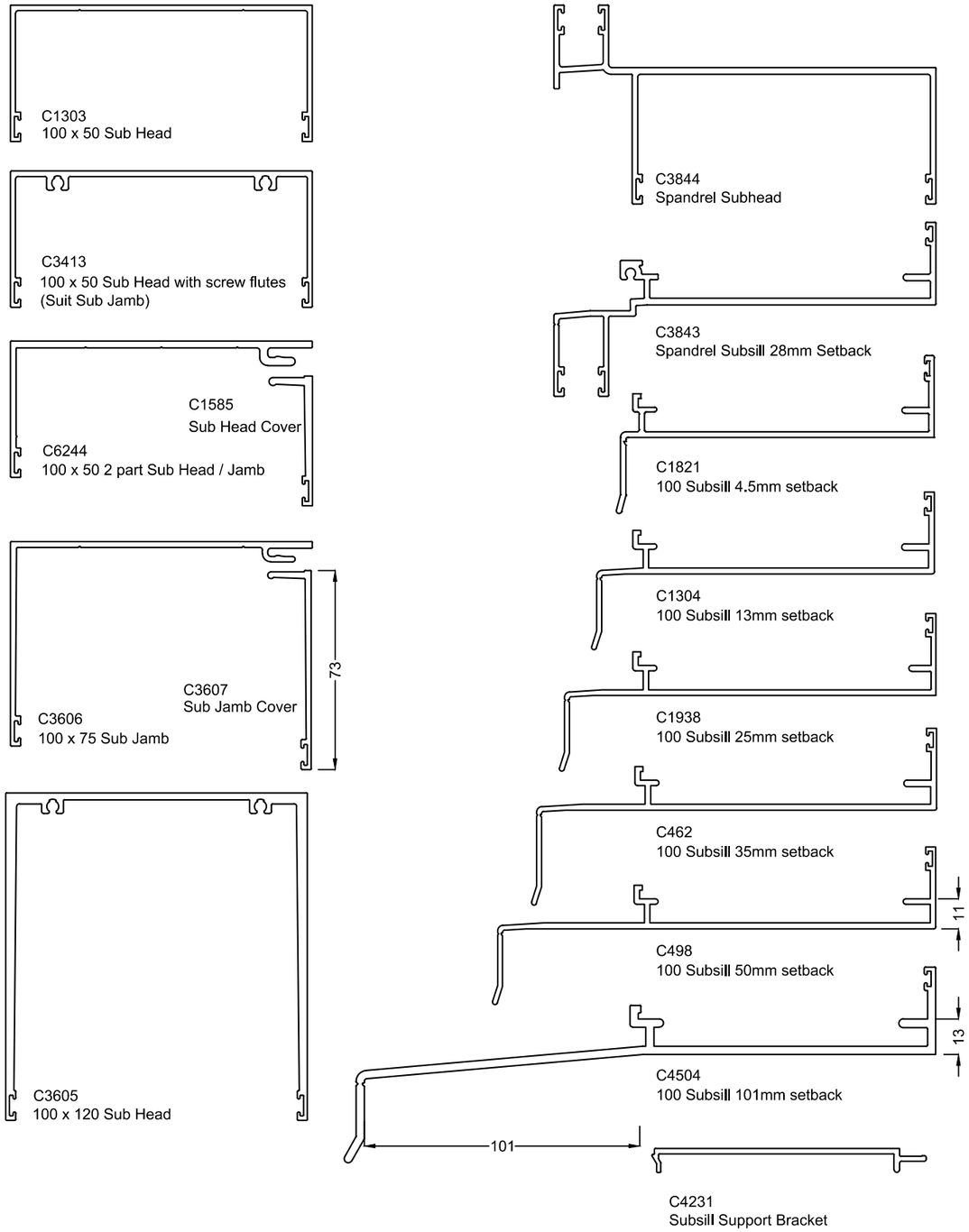
C0054
29mm Gap

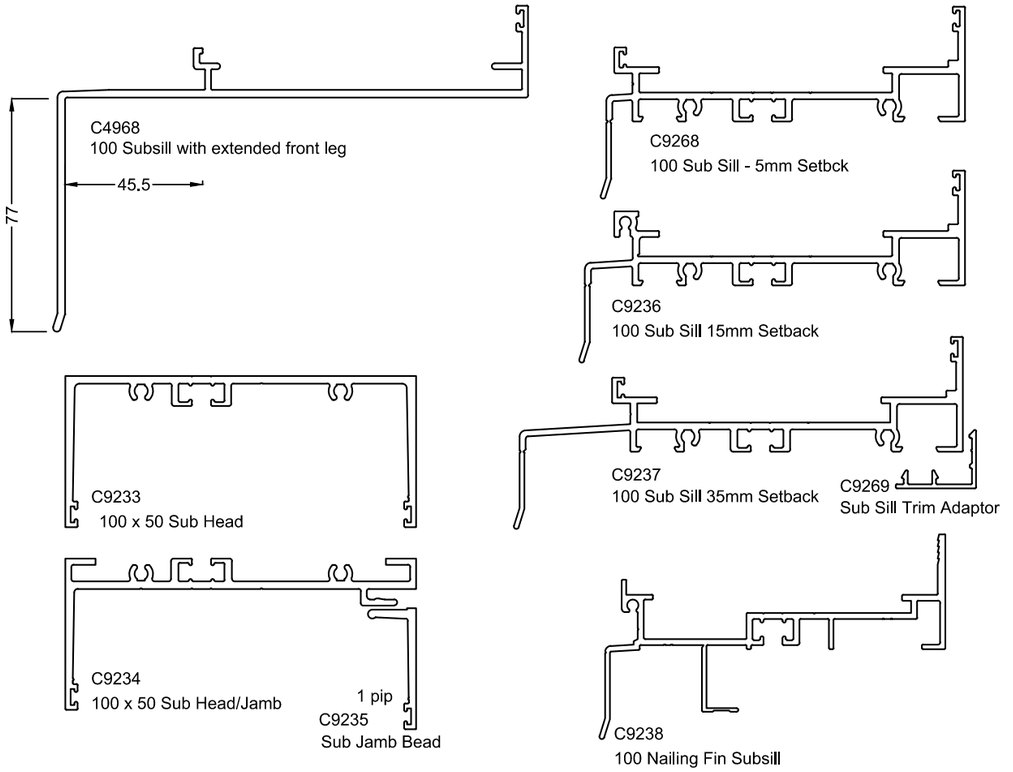
C016-2
41mm Gap

Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

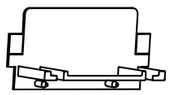
Max Framing Systems: M100FDG40 - 3

Extrusion ID

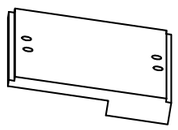




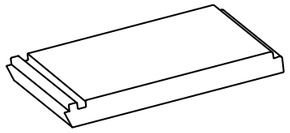
Component ID



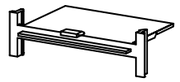
CH9570
100 Subsill Stop end (non handed)



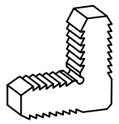
CH9573
100 Nailing Fin Subsill
end cap



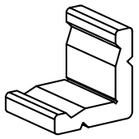
CH9595
Max Subsill support block



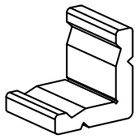
CH9611
Max Watershed, suit 40 Pocket
for Deep & Shallow pockets



CH9557
Cornerstake C9245 Sash



CH1317
Cornerstake C1317, C9241 Sash

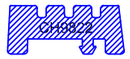


CH131737
Cornerstake C9519 Sash

CH9580
Sash Gusset

CH9600
20 x #10 Sq Drive Screw
(Front of Glazing Pocket)

CHSQDRIVE
GFB Square Drive #125 R1
100mm Long
suits CH9600 Screw

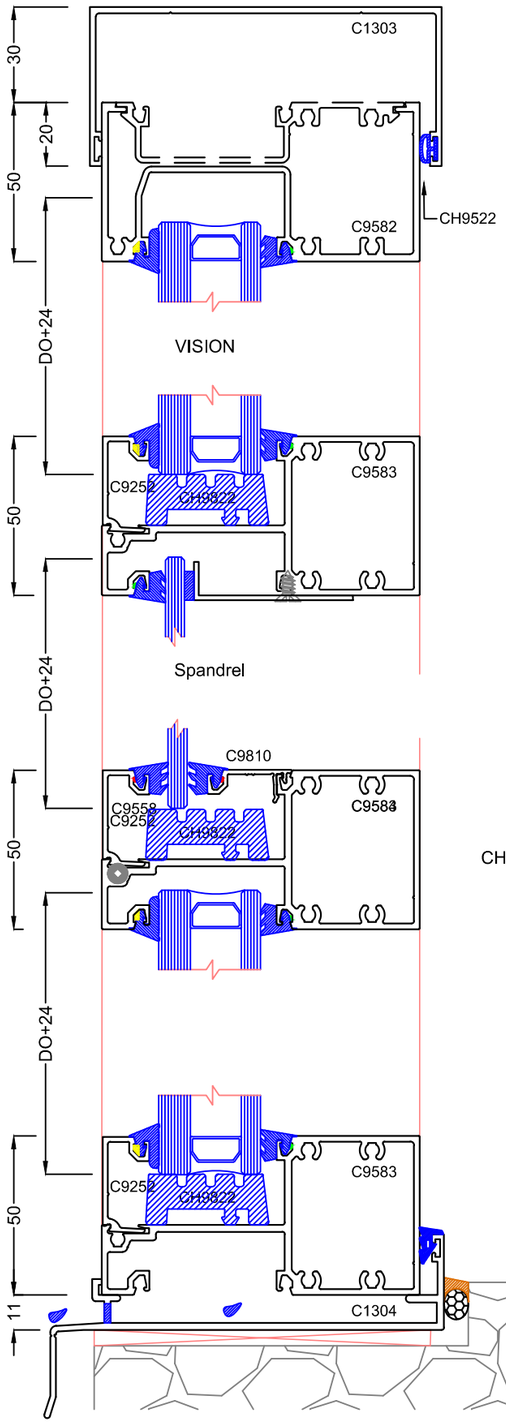


CH9822
Wide Setting Block

Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

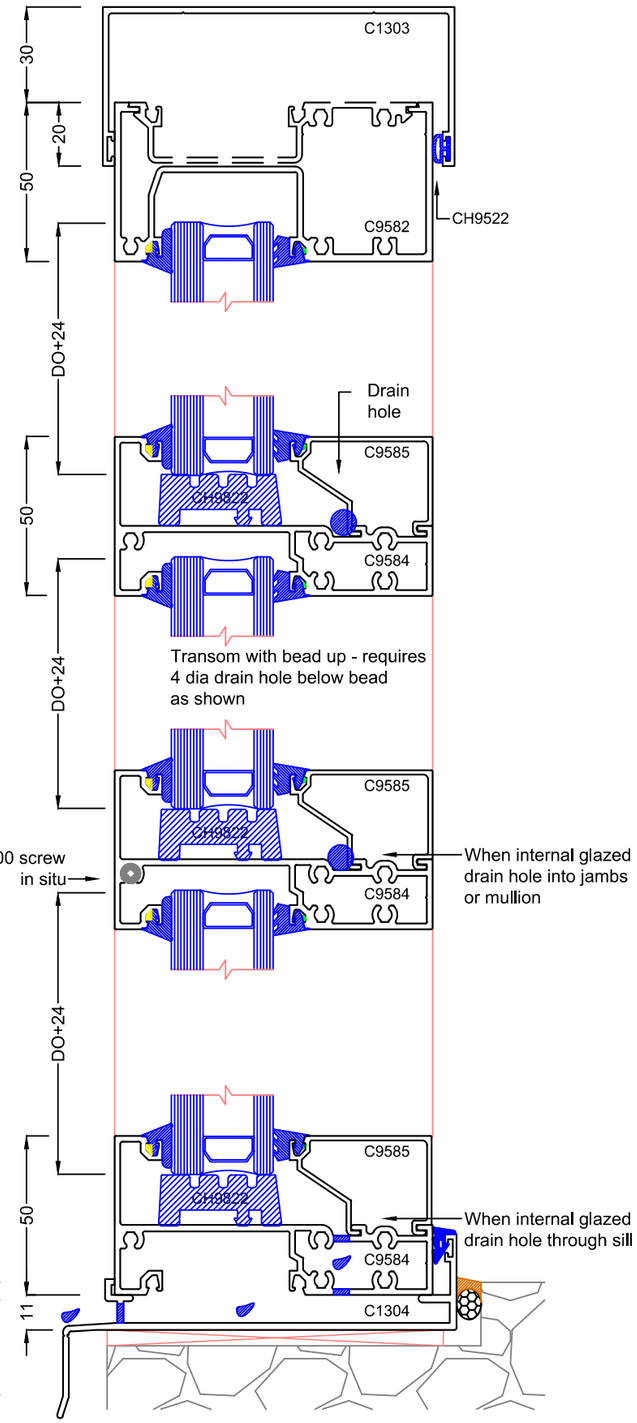
Max Framing Systems: M100FDG40 - 4

50mm Head & Sill External Glazed



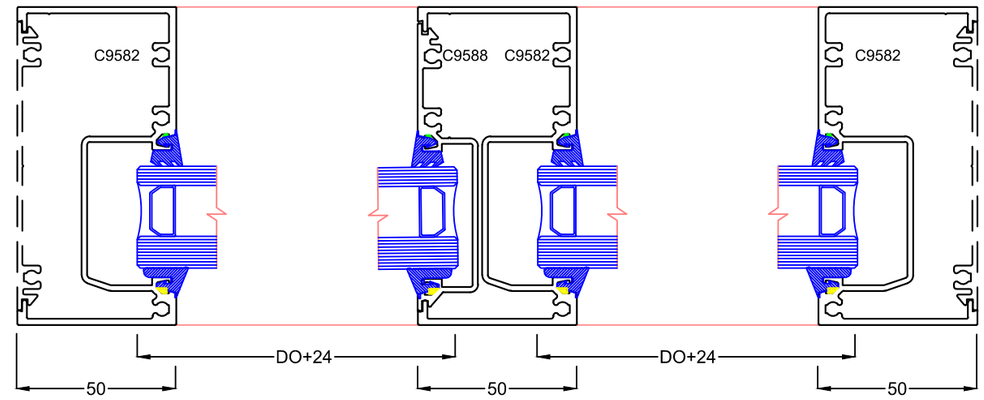
50mm Head & Sill Internal Glazed

Internally glazed transoms with "bead up"



50mm Jamb

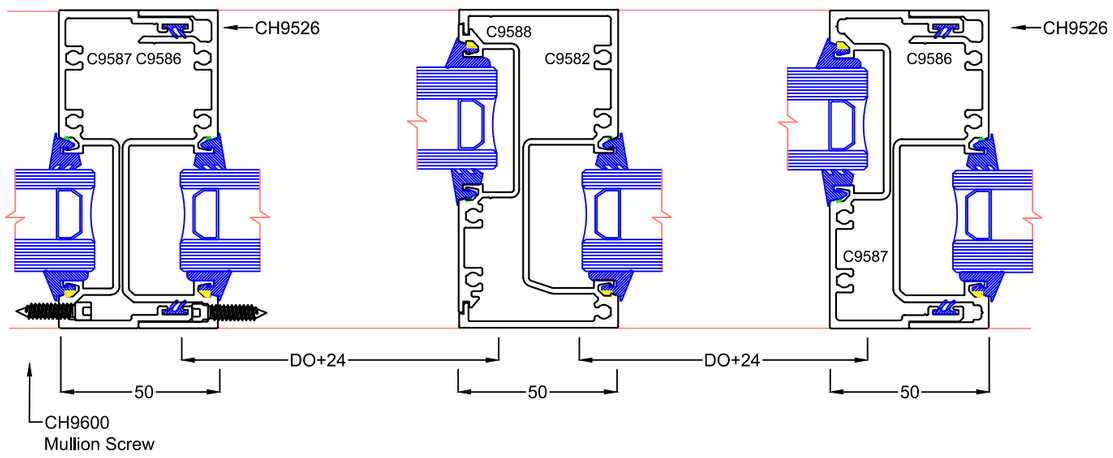
50mm Standard Mullion



50mm Split Mullion

Front/Reversed Std Mullion

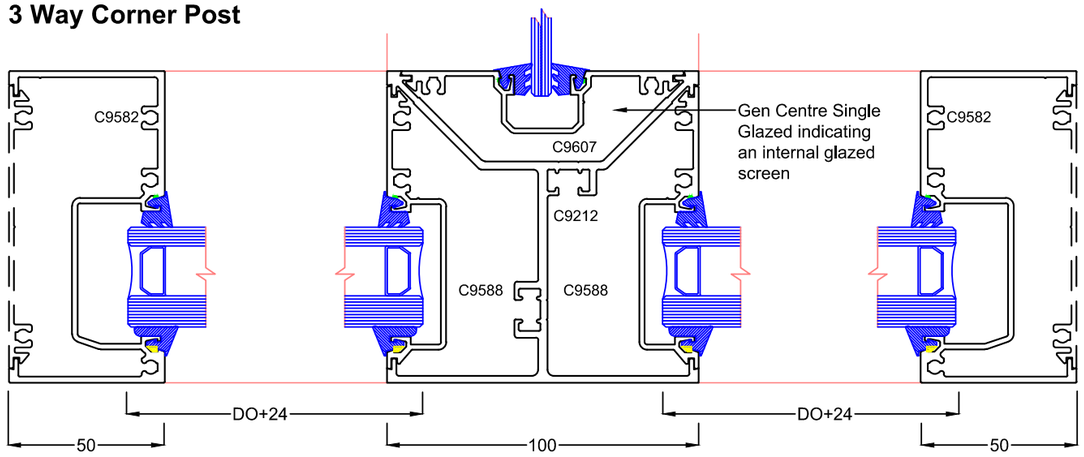
Front/Reversed Split Mullion



Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

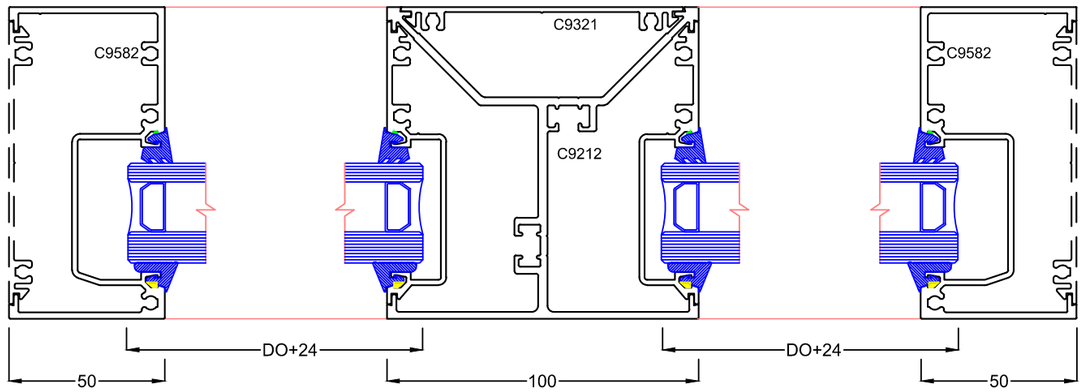
Max Framing Systems: M100FDG40 - 5

3 Way Corner Post

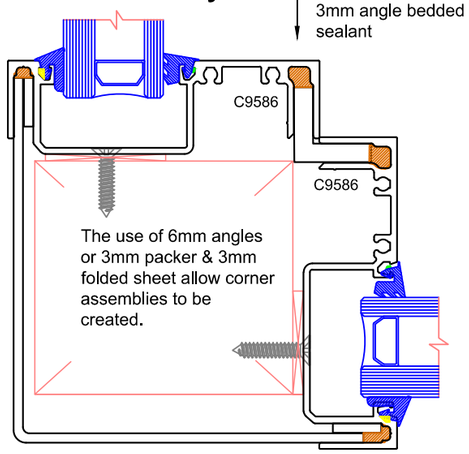


Note:
A 3 way configuration typically occurs where an internal partition wall adjoins. In this situation the front glazed adaptor cannot be used on the internal side.

180 Degree Post

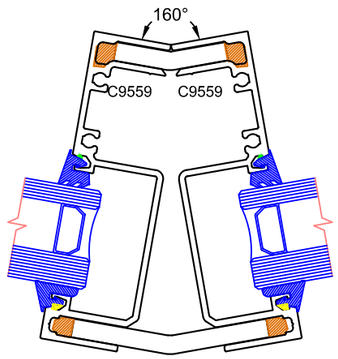


Corner Assembly

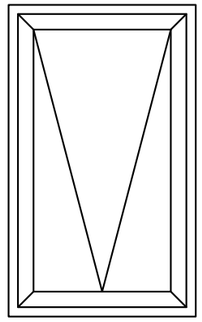


Splayed corner

6mm folded aluminium plate sleeved inside mullion, siliconed into place. Angles less than 160' would require mullions to be spread further apart.



Inset Awning Sash

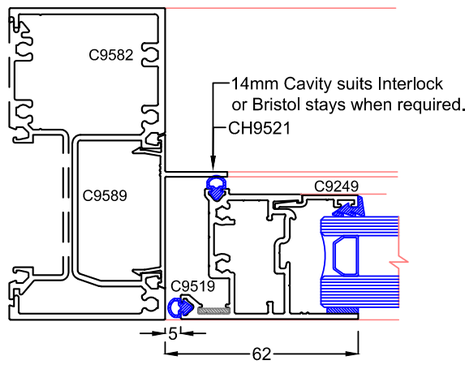


Note:
Maximum Sash weights generally are 30kg for a single chain winder & 70kg for a dual chain winder & 70kg with stays.

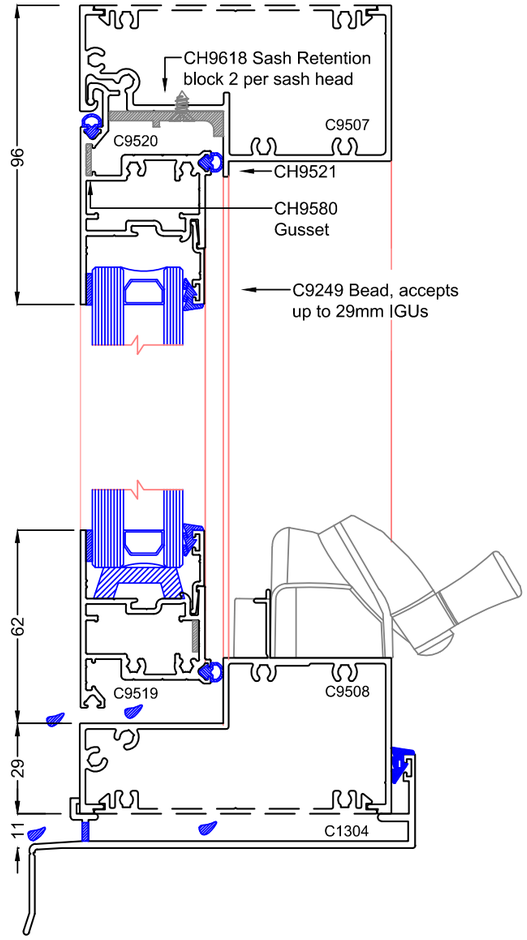
- Max Sash Height: 1600mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass: 6mm - 28mm
- Accepts Q-Lon acoustic seals

Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

Jamb Detail



50mm Hinge Head, Winder Sill

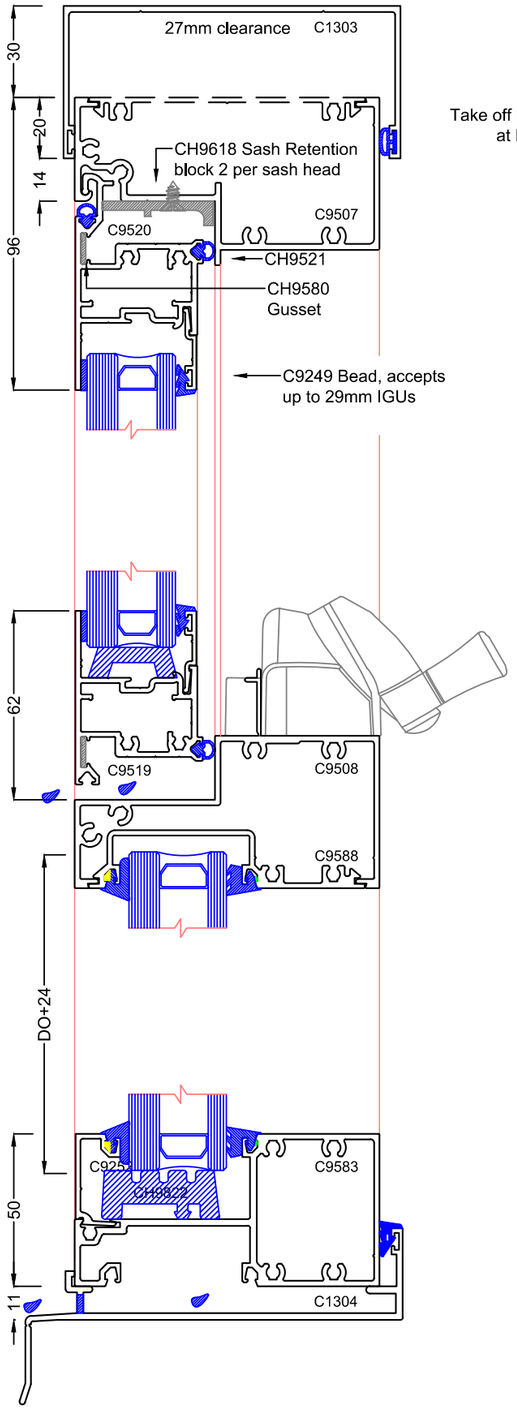


Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

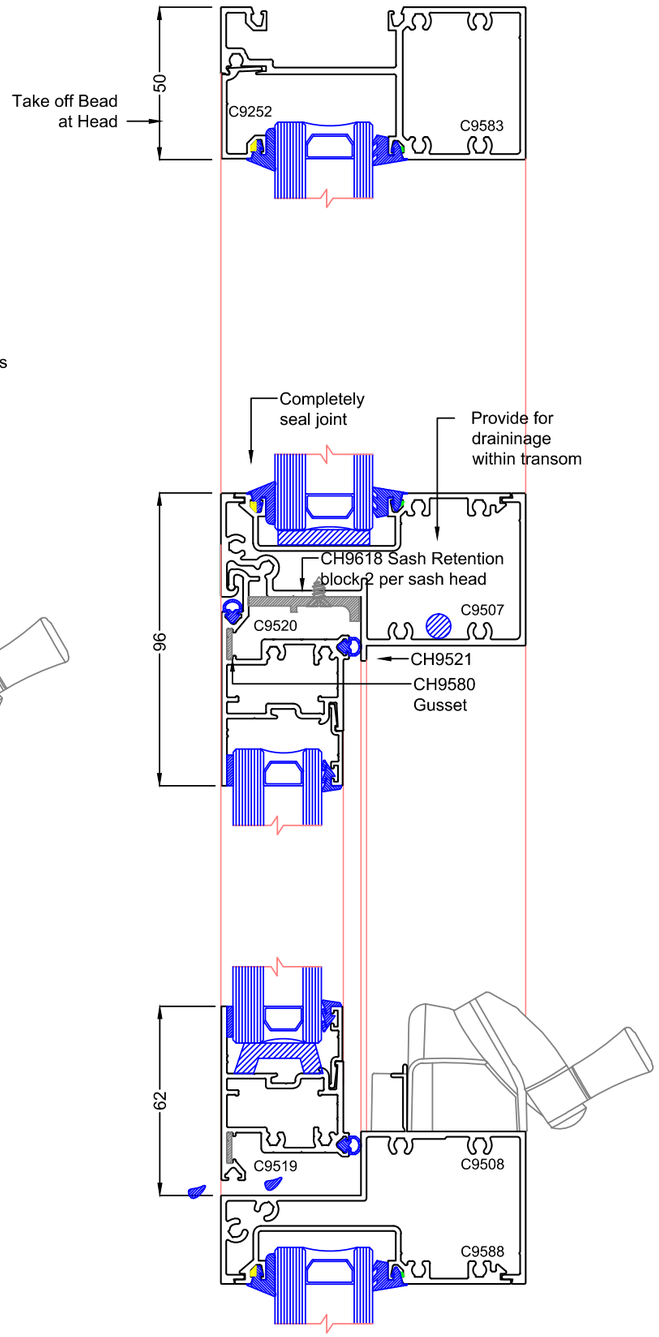
Max Framing Systems: M100FDG40 - 6

50mm Hinge Head & Winder Sill Transom

with 50mm Head & Sill with Sill Transom

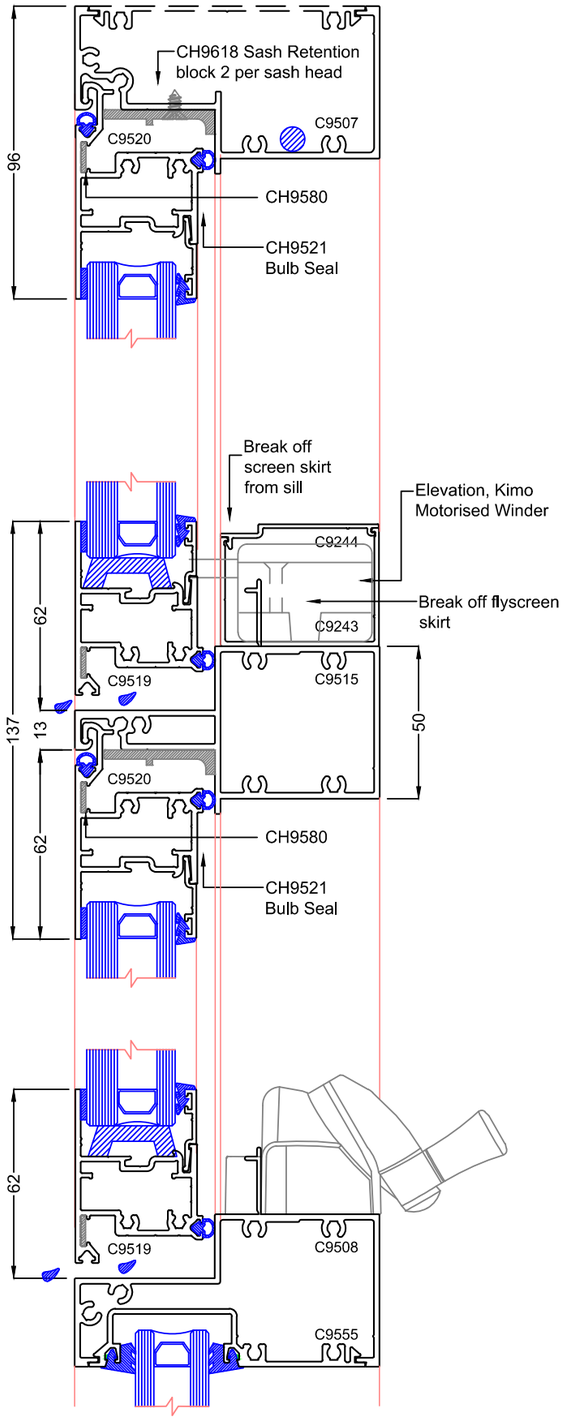


50mm Head & Sill with Head Transom



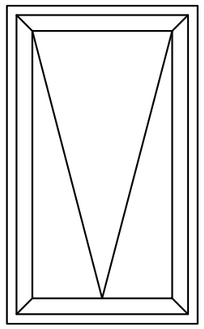
Hinge Head & Double Winder Transom

Motorised winder detailed on highlight & concealed winder box (50kg Sash weight). Note transom only suits hinge head sash.



Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 7

46mm Overlap Awning Sash

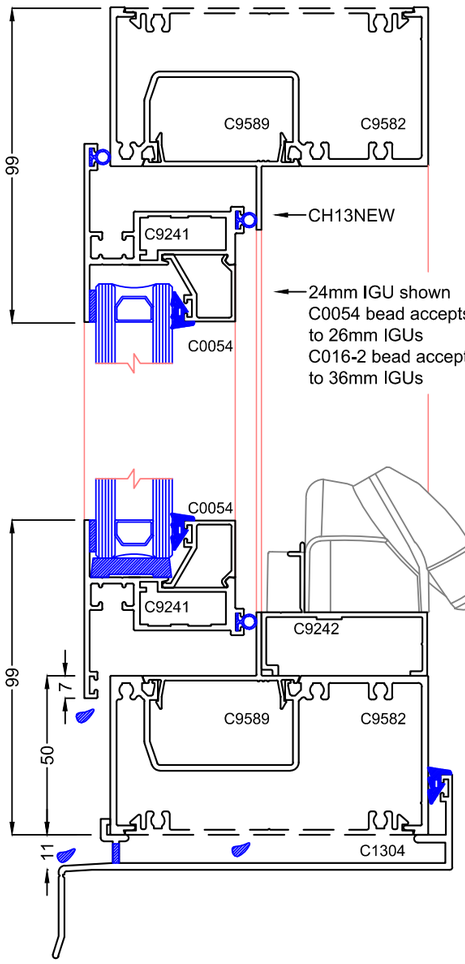


Note:
The Overlap Sash depicted requires awning stays but elegantly suits the hinge head & winder sill. This Sash is depicted as it matches the glass thickness of the frame.
Maximum Sash weights generally are 30kg for a single chain winder & 70kg for a dual chain winder & 70kg with stays.

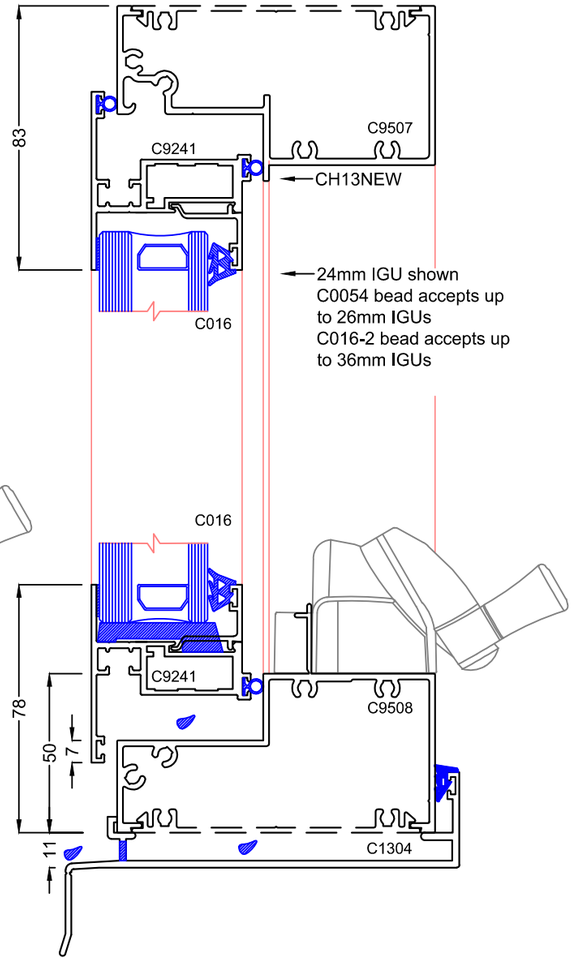
- Max Sash Height: 1600mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass: 6mm - 35mm
- Accepts Q-Lon acoustic seals

Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

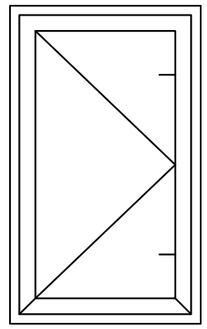
50mm Head & Sill



Hinge Head & Winder Sill
with overlap sash on stays



46mm Overlap Casement Sash

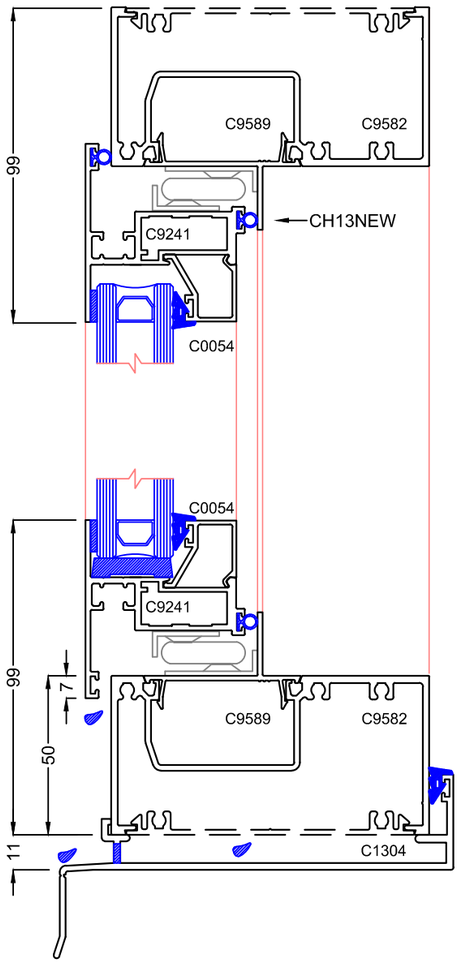


Note:
Left Hand Sash depicted

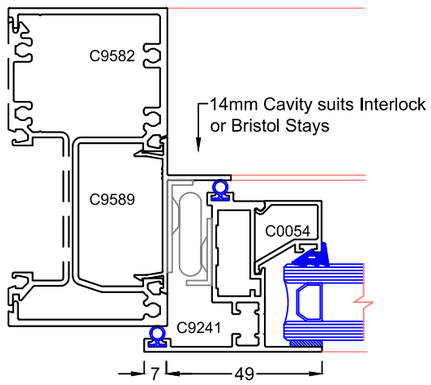
- Maximum Sash weights generally are 30kg, imited by the hardware.
- Maximum Sash width is 900mm.

Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

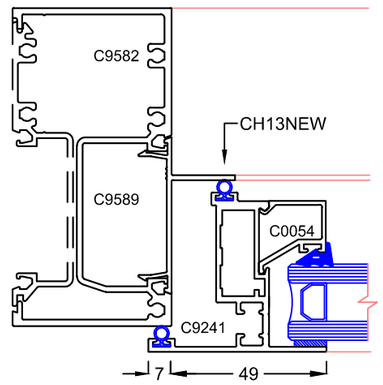
50mm Head & Sill



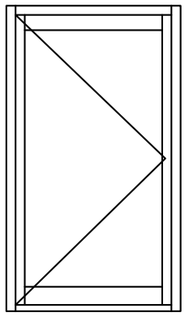
50mm Jamb



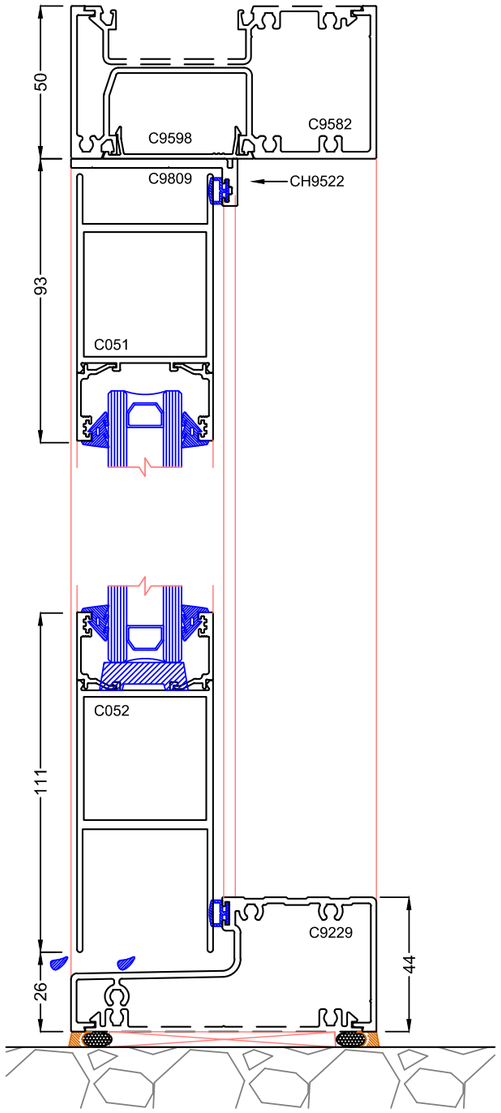
Casement 50mm Jamb "Hinge Side"



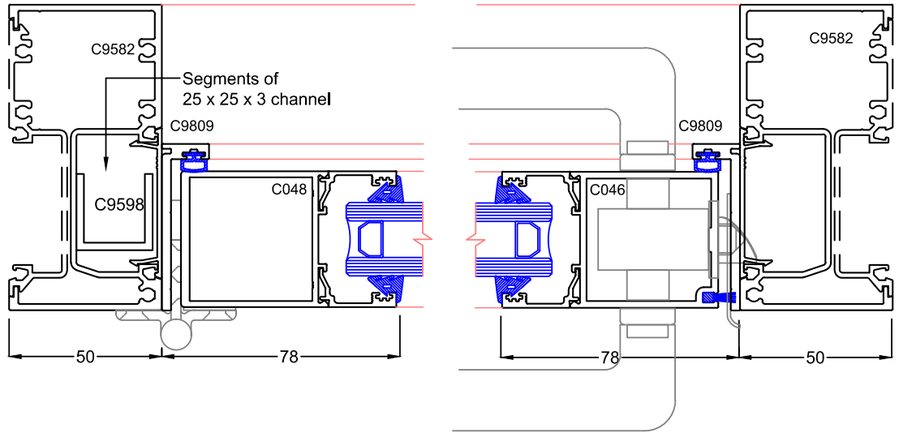
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 8
Hinged Door Open OUT



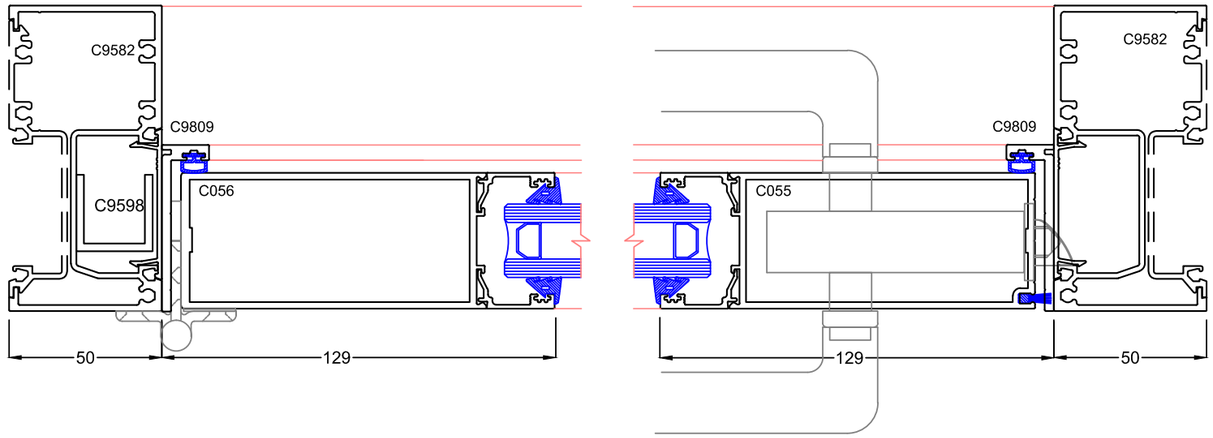
Note:
Maximum Door height 2700mm
Maximum Panel width 1000mm



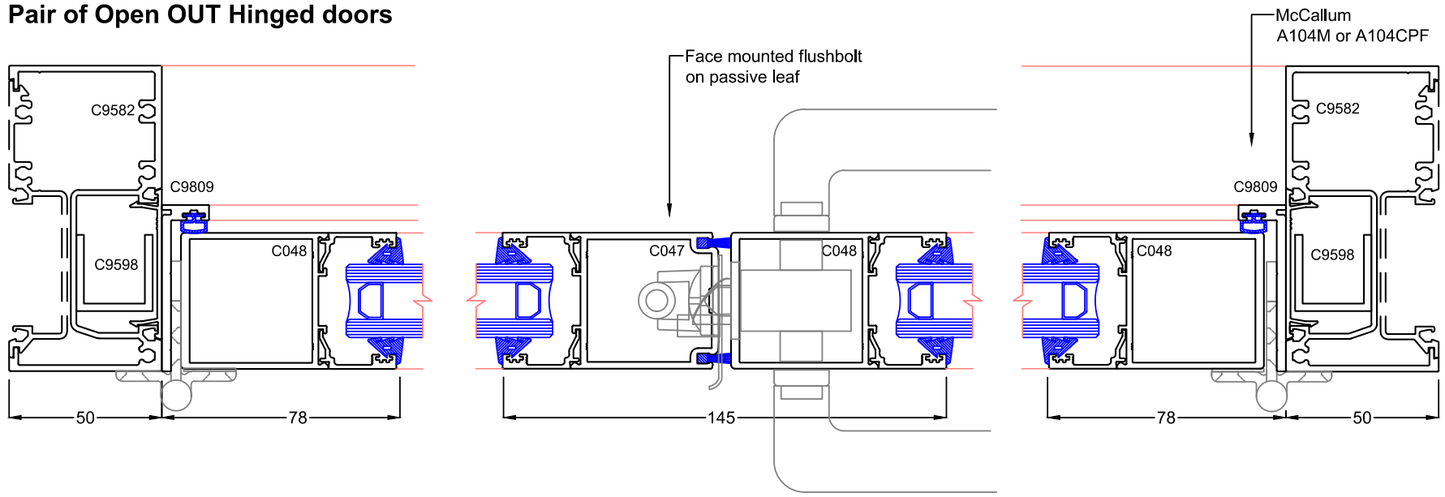
Left Hand Open OUT



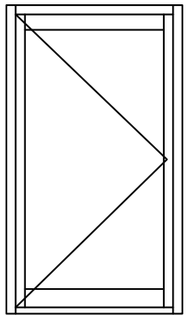
Left Hand Open OUT Door with Wide Plain & Lock Stile



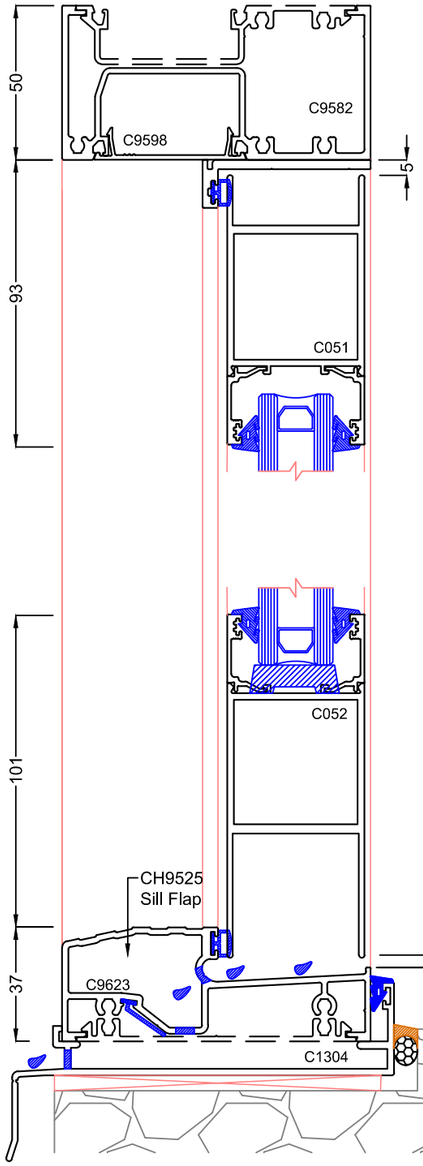
Pair of Open OUT Hinged doors



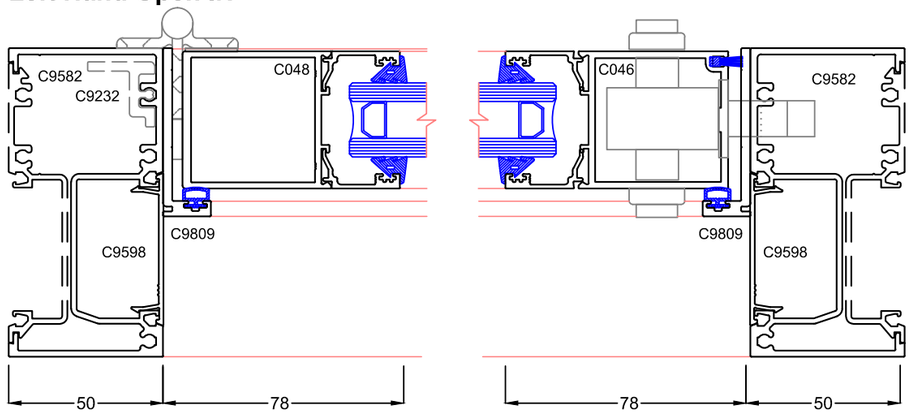
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 9
Hinged Door Open IN



Note:
Maximum Door height 2700mm
Maximum Panel width 1000mm

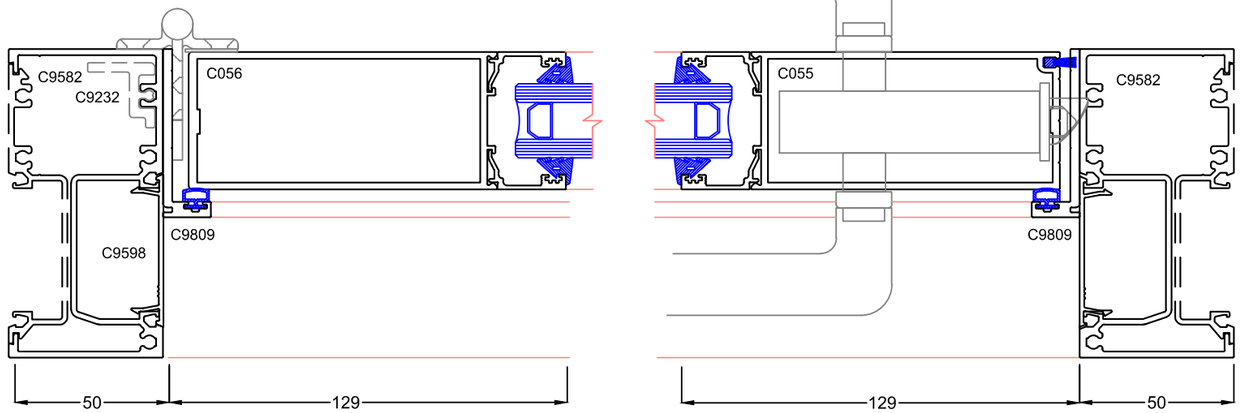


Left Hand Open IN

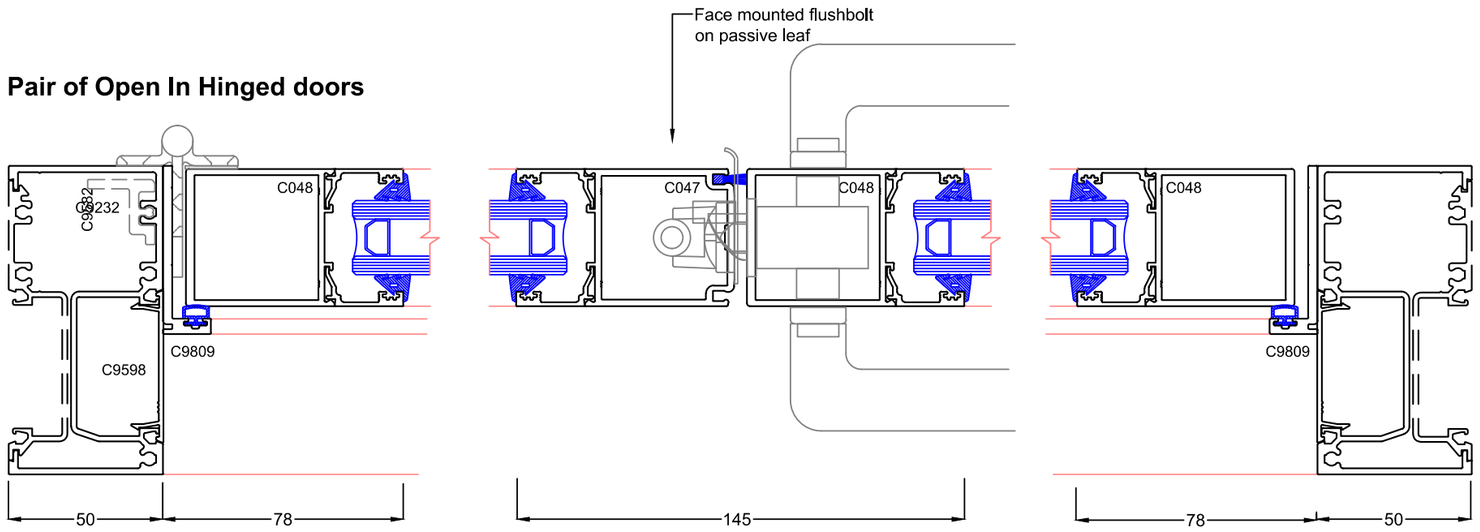


Note:
Open IN conditions where there are no highlights or sidelights, a door frame is better made using centre glaze extrusions as it allows the use of hinge backing plate

Left Hand Open In Door with Wide Plain & Lock Stile
Deep rails are usually used with wide stiles to accentuate the door leaf



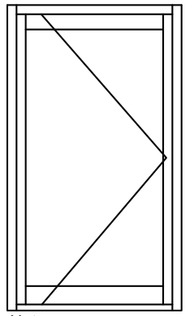
Pair of Open In Hinged doors



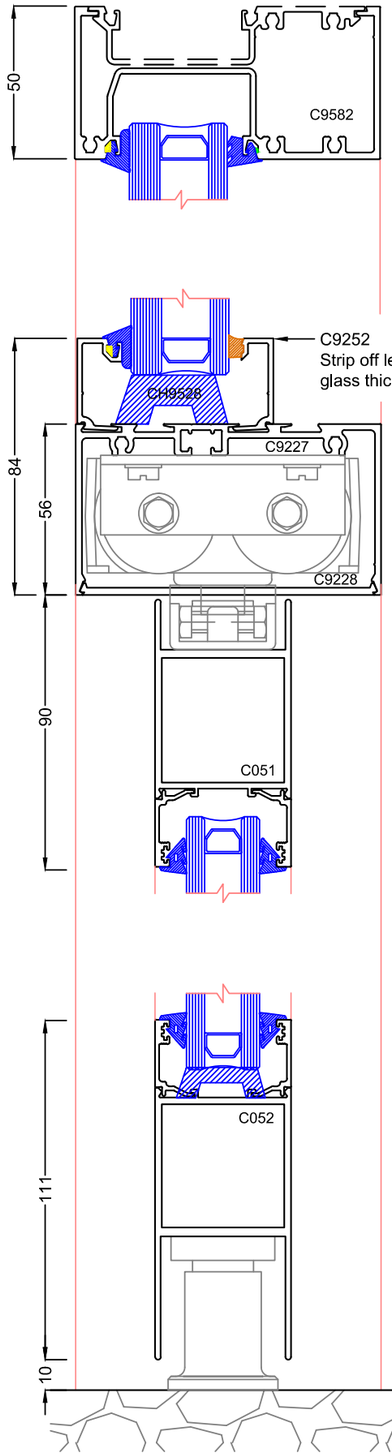
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 10

Pivot Doors

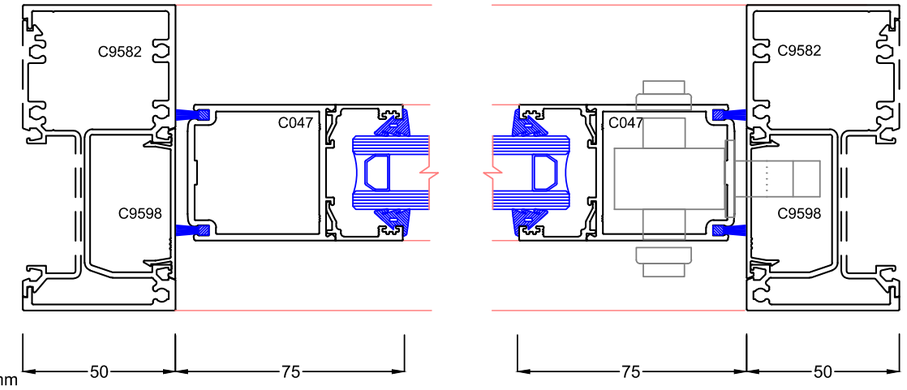


Note:
Maximum door height 2700mm
Maximum Panel width 1000mm
Pivot point usually 100mm



C9252
Strip off leg to accept
glass thicker than 28mm

Left Hand Pivot Door

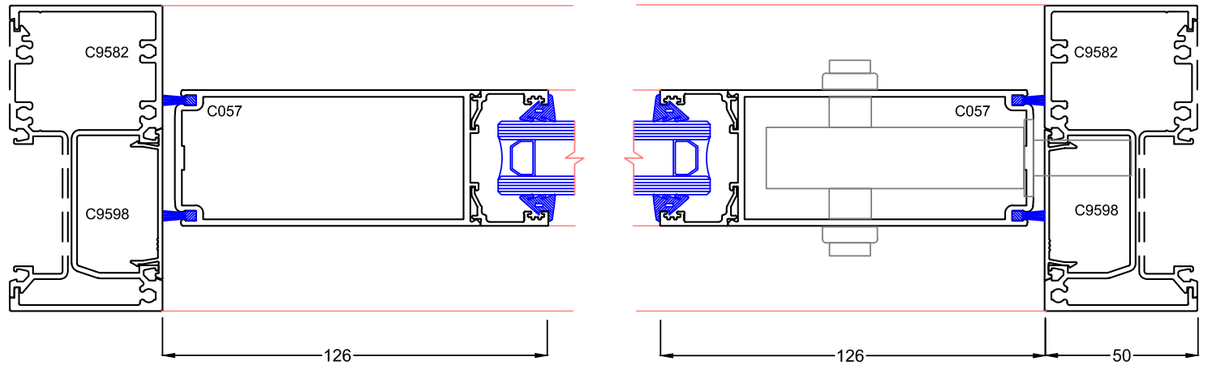


Note:
Pivot door frames are better manufactured from Centre Glaze framing where the flush filler is centrallised on the frame.

Alternatively using a plain frame as a jamb or 1/2 mullion will be more asethetically pleasing provided the frame does not have a highlight

Left Hand Pivot Door with Wide Stiles

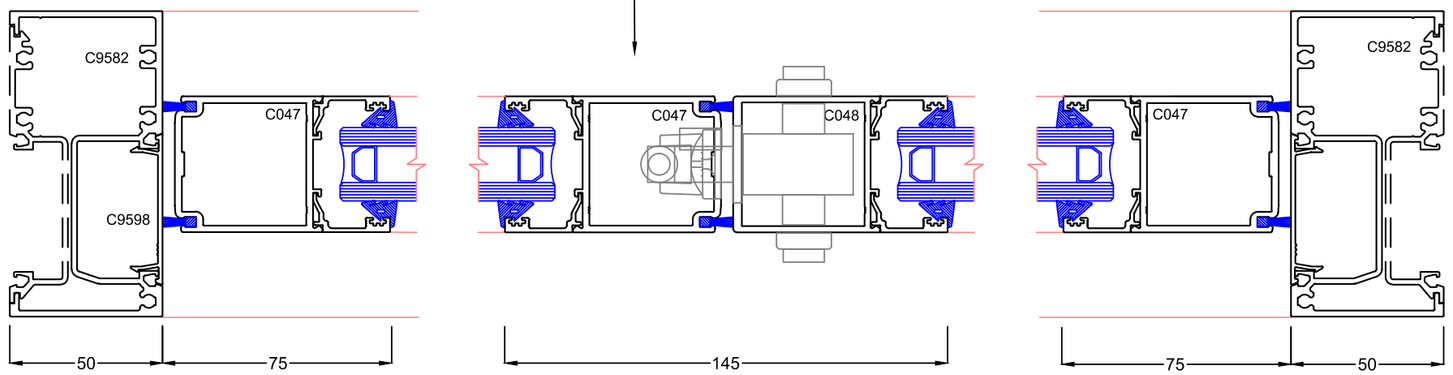
Deep rails are usually used with wide stiles to accentuate the door leaf.



Pair of Pivot Doors with Plain & Pivot Stiles

Best suited to commercial public access applications where doors are not exposed & weathering is not a priority as these doors cannot use a weathered threshold.

Face mounted flushbolt on passive leaf

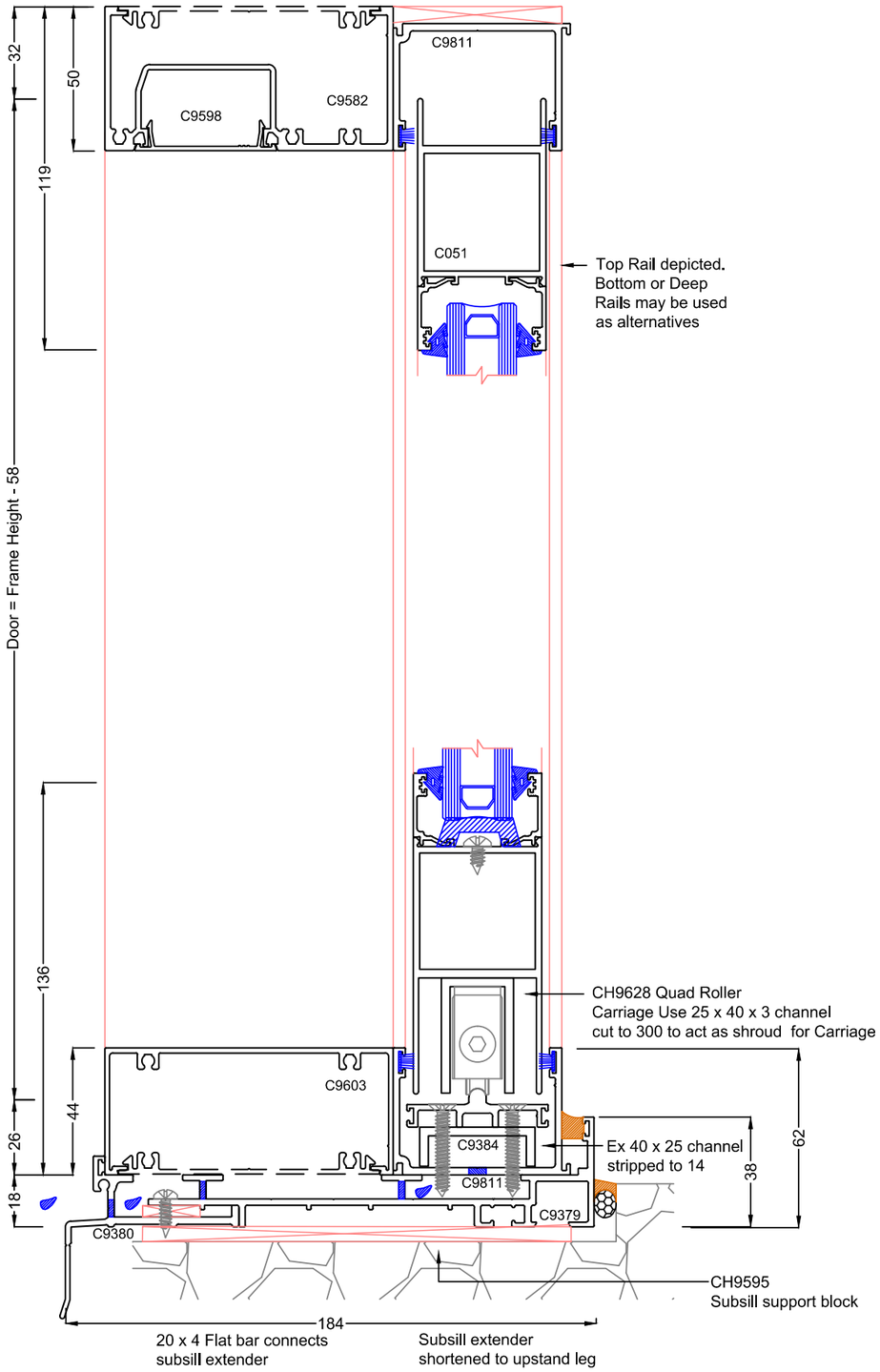


Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 11

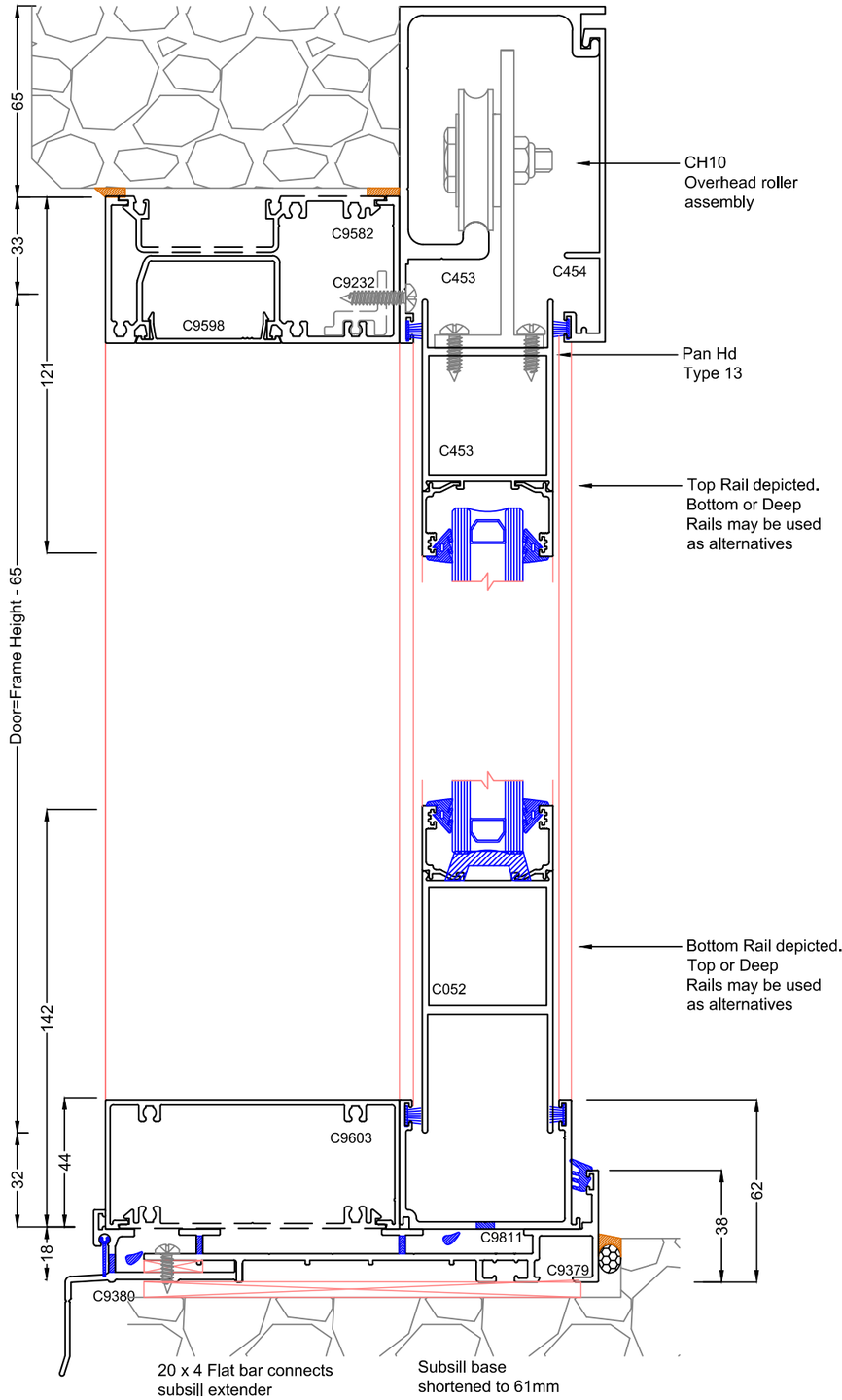
Sliding Bottom Track - 300kg panel weight

using 50mm Head & 44mm sill



Overhead Sliding Track - 250kg Panel Weight

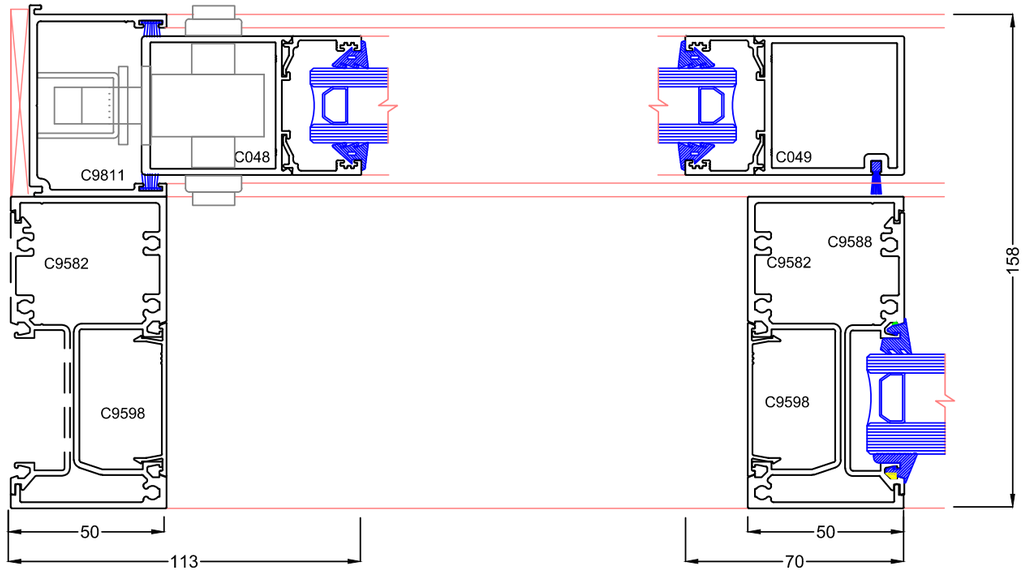
using 50mm Head & 44mm Sill



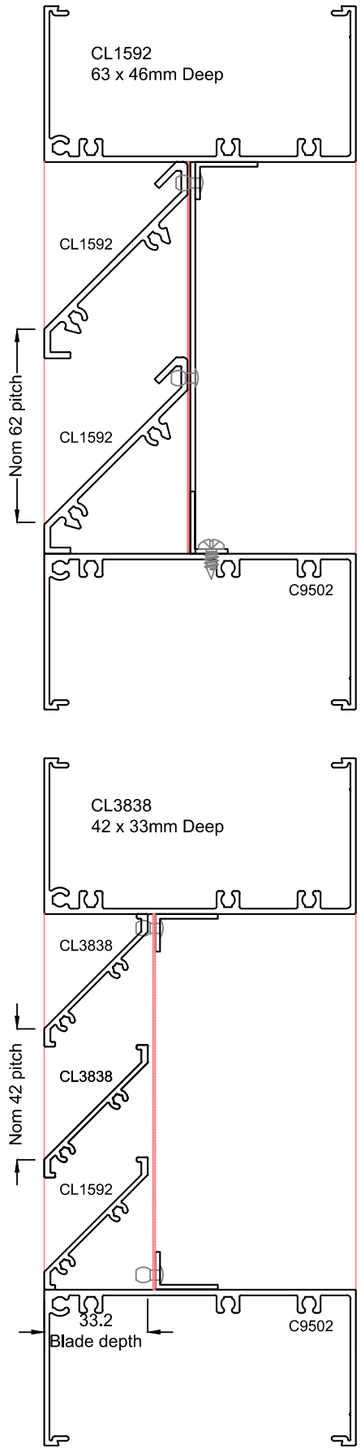
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 12

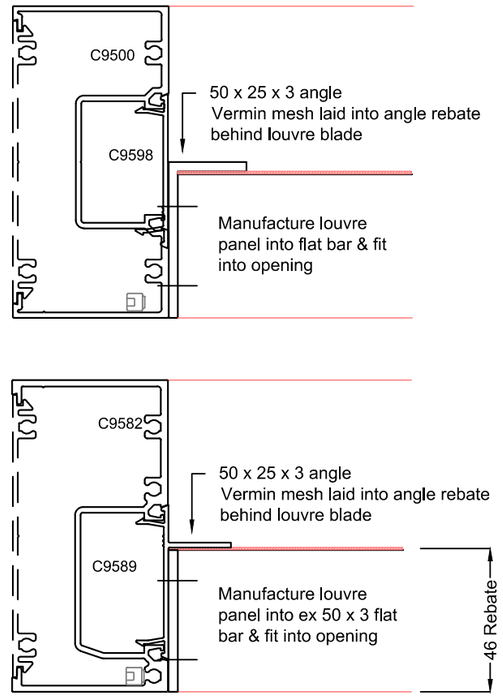
Sliding Door with Closing Jamb in 100 Fixed framing

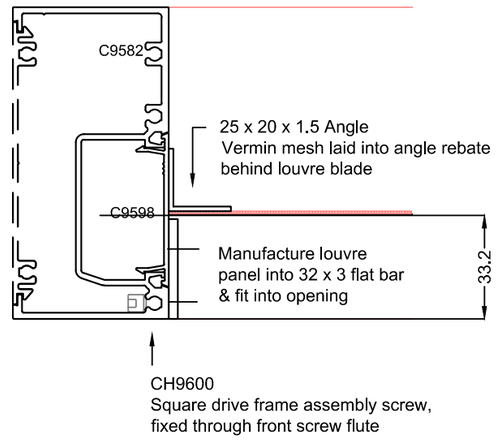


Louvres



Jamb Detail

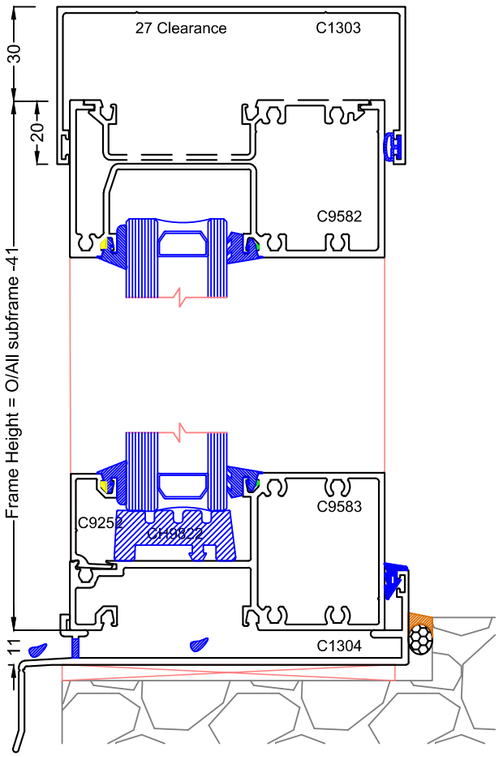




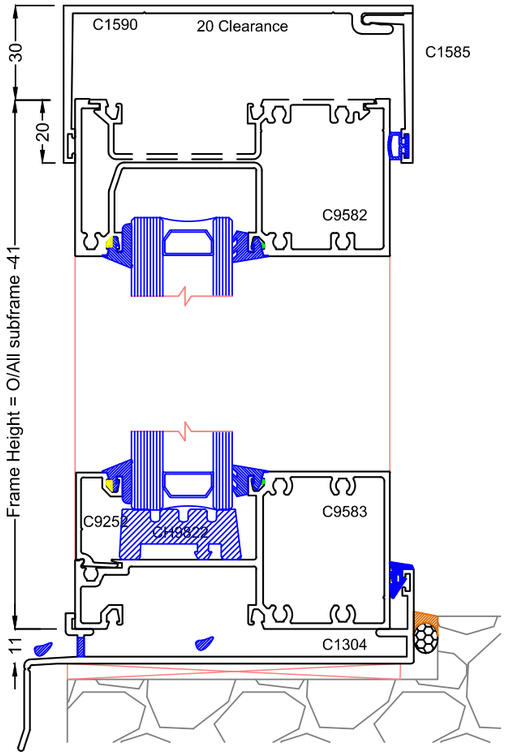
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 13

One Piece Sub Head (50 deep)

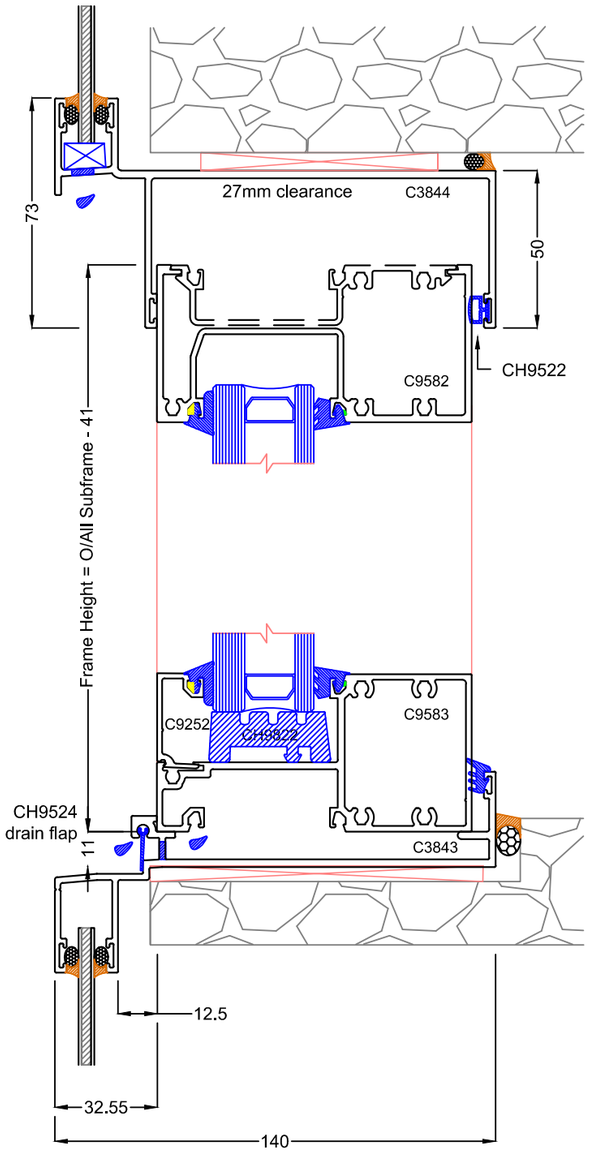


Two Part Sub Head (50 deep)



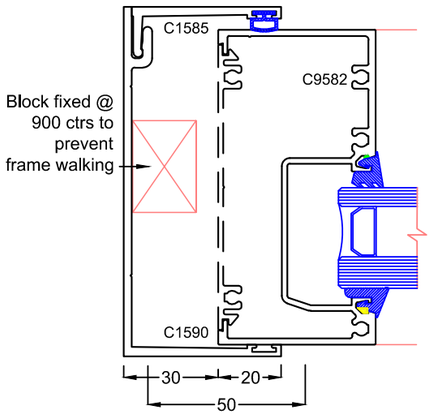
Spandrel Sub Head & Subsill

Spandrels areas above or below frames can be captured by the Spandrel sub frames, especially sheet or composite panels.



Two Part Sub Jamb

used in conjunction with One Piece or Two Part sub head for internal Installation



The use of Sub frames & subsills

Commercial window systems are designed for drainage through the system. Horizontal members act as "gutters", collecting water & allowing it to flow to Vertical members which act as "downpipes".

It then becomes mandatory to adequately flash frames at the sill - this can be done via a folded flashing, impervious rebate, but usually by the use of a subsill.

The subsill allows easy preparation of an opening & ready access to subsill fixings so they can be appropriately sealed prior to frame installation.

A subsill is fitted with a stop end, which contains water within the subsill & is fitted & sealed around during the fitting of a subsill. Without this, water would run to the ends of the subsill & leak back into the building.

Sub heads are used to allow for either vertical movement or as a more efficient means of installation, especially in above ground installations where it might be desirable to install frames from inside.

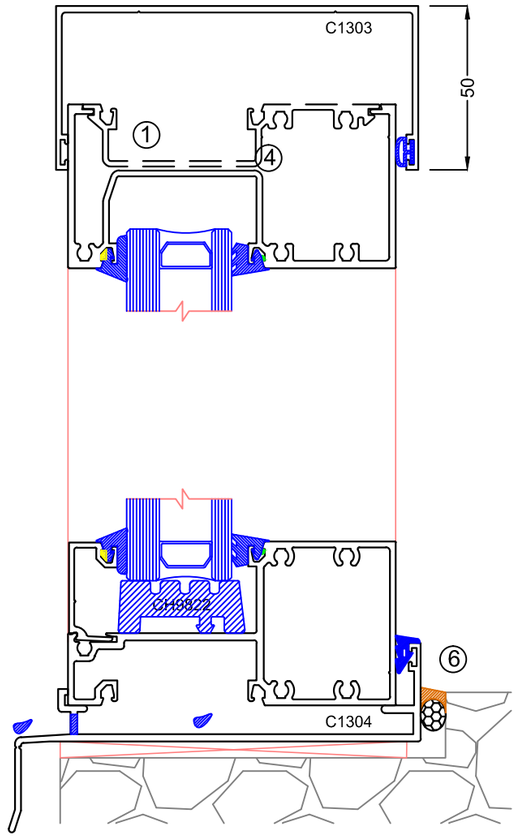
Sub frames likewise can be used in this situation, but are especially needed in ventilated cavities (like cavity brick) where there is airflow that may allow water to be driven over subsill stop ends, or it is difficult to contain water within a window opening.

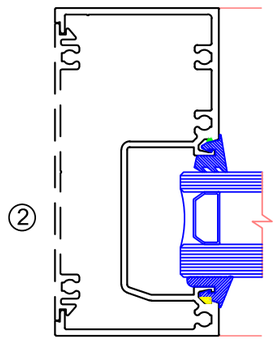
It must be remembered that all window installations require a continuous internal seal especially & the use of subsills & sub frames are especially useful in achieving this.

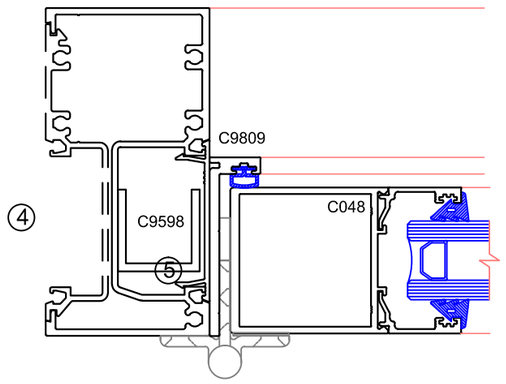
Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 14

Principles Adopted in General Arrangement Drawings



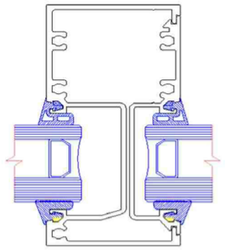




1. Dashed lines represent typically 100mm long pieces to brace outer frame members or as backings for fixings
2. Solid lines represent continuous extrusions. Jambs are recommended for use with continuous fillers to maintain frame tolerances & to allow continuous caulk lines.
4. Pocketed fillers preferred for support behind jambs, especially on door frames, on heads within a subhead, to stop potential water tracking & at 1/4 points on sill profiles to support the sill from weight of glass & fixings.
   Lower profile sills & heads however require a flat filler & are depicted this way on drawings.
5. Hinge backing plates should be used in 200mm segments to support hinges & door tracks where applicable
6. Rebate details are typical only & indicate internal seals against the back of subsills to exclude air & water entry beyond the back of frames, subsill. Fixing methods vary considerably & are not detailed.

Mullion Structural Tables

Mullion Combination: Max 100-40 Pocket STD C9582 C9588



These tables use theoretical section properties. The resulting Serviceability and Ultimate should be read in conjunction with the requirements of AS1170.

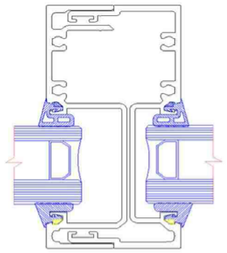
Note the following:
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ulltimate.

This chart is to be used as a guide only. Where Serviceability exceeds 3kPa or for more information, contact Capral.

Frame Height (mm)		Design Wind Pressure (Pa)							
2200	*S*	*2802*	*2312*	*2002*	*1797*	*1661*	*1574*	*1525*	*1509*
	U	*4407*	*3620*	*3118*	*2783*	*2557*	*2410*	*2326*	*2298*
2400	*S*	*2140*	*1757*	*1511*	*1346*	*1232*	*1154*	*1104*	*1075*
	U	*3669*	*3000*	*2570*	*2277*	*2074*	*1933*	*1839*	*1785*
2600	*S*	*1672*	*1367*	*1170*	*1036*	*942*	*875*	*828*	*797*
	U	*3103*	*2529*	*2157*	*1901*	*1720*	*1590*	*1498*	*1435*
2800	*S*	*1331*	*1085*	*926*	*816*	*737*	*680*	*639*	*610*
	U	*2659*	*2161*	*1837*	*1613*	*1451*	*1333*	*1247*	*1184*
3000	*S*	*1078*	*877*	*745*	*654*				
	U	*2304*	*1869*	*1584*	*1386*				
3200	**S**	*885*	*718*	*609*					
	U	*2016*	*1632*	*1381*					
3400	**S**	*736*							
	U	*1779*							
3600	**S**	*618*							
	U	*1581*							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket
Max Framing Systems: M100FDG40 - 15
Mullion Structural Tables

Mullion Combination: **Max 100-40 Pocket Split C9586 C9587**



These tables use theoretical section properties. The resulting Serviceability and Ultimate should be read in conjunction with the requirements of AS1170.

Note the following:
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ulltimate.

This chart is to be used as a guide only. Where Serviceability exceeds 3kPa or for more information, contact Capral.

Frame Height (mm)		Design Wind Pressure (Pa)							
2200	*S*	*3720*	*3069*	*2657*	*2385*	*2205*	*2089*	*2024*	*2003*
	U	*5859*	*4812*	*4145*	*3700*	*3400*	*3204*	*3092*	*3055*
2400	*S*	*2840*	*2332*	*2006*	*1787*	*1636*	*1532*	*1465*	*1427*
	U	*4878*	*3989*	*3416*	*3028*	*2757*	*2570*	*2445*	*2373*
2600	*S*	*2219*	*1814*	*1553*	*1375*	*1250*	*1161*	*1099*	*1058*
	U	*41.26*	*3362*	*2867*	*2527*	*2286*	*2113*	*1991*	*1908*
2800	*S*	*1767*	*1441*	*1229*	*1083*	*979*	*903*	*848*	*809*
	U	*3535*	*2873*	*2442*	*2144*	*1930*	*1773*	*1658*	*1575*
3000	*S*	*1431*	*1163*	*989*	*869*	*782*	*718*	*670*	*635*
	U	*3063*	*2485*	*2106*	*1843*	*1652*	*1510*	*1404*	*1325*
3200	**S**	*1175*	*953*	*809*	*708*	*635*			
	U	*2680*	*2170*	*1836*	*1602*	*1431*			
3400	**S**	*977*	*791*	*670*					
	U	*2365*	*1912*	*1614*					
3600	**S**	*821*	*664*						
	U	*2102*	*1697*						
3800	**S**	*696*							
	U	*1880*							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Glazing Methodology

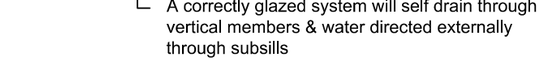
This system has been designed to self drain within the system via a patented watershed component in transoms, traditionally the area most prone to leakage in commercial systems.

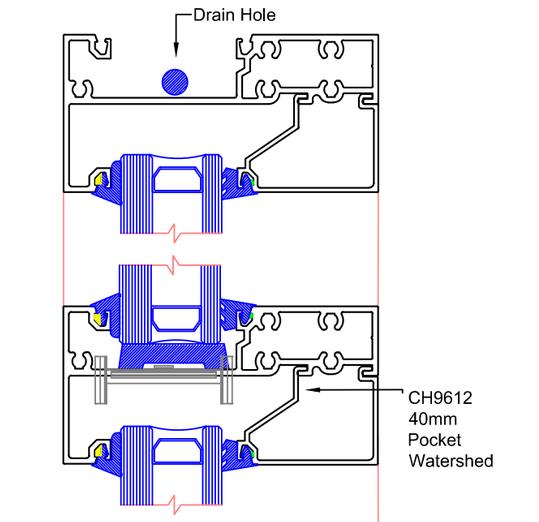
Most other commercial systems attempt to deal with drainage through ugly external drain slots or rely on silicone to stop water entry.

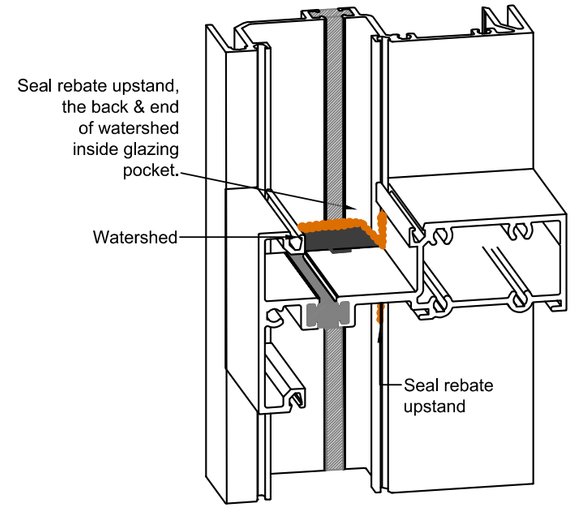
Using "top loaded" high performance co-extruded wedges which are shrink resistant, the system allows easy in-factory fitting of backing wedges & easy fitting of wedges on the side from which the system is being glazed.

Wedges are colour coded according to thickness for ease of identification, refer the chart below.

Note: This page describes one method of glazing. Wet Glazing or combinations of wet and dry glazing can be done. For further information on Glazing methodology & frame sealing please refer the Information pages in the U-Max Manual.







Preparing the Glazing Rebate:

a. Ends of horizontal frame joints are end buttered prior to assembly.

b. Fit the watershed device while assembling transoms

c. Seal into the captive groove on the transom's vertical rebate. This is done on top & below the transom.

d. Seal the back end end of watershed within the pocket. DO not seal in front of Watershed as infiltrated water is drained through here.

Backing Wedge (rebate size) Fitting method:
Backing wedges can be fitted either side dependant on which side it is being glazed: outside for internal glaze or inside for external glaze. The diagram depicted is externally glazed, so backing wedges would be factory fitted to the inside.

- Wedges size appropriate to glass thickness should be cut approx 18mm/metre oversize from DO (Daylight opening).
- Vertical wedges butt between horizontal wedges & are bunched towards corners.
- Pull corners back 50mm & bed into sealant & apply sealant to the butted ends.

Site Preparation of the glazing rebate:

- Clean the glazing rebate & wipe glazing grooves
- Check the watershed devices are in place & overseal where appropriate.
- Place setting blocks at 1/4 points. Setting blocks should be no closer than 150mm from the edge of glass in normal conditions.

Wedge Fitting method on the glazing side

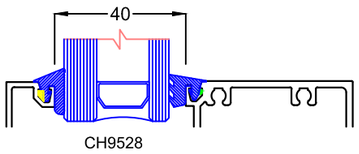
- Wedges size appropriate to glass thickness should be cut approx 18mm/metre oversize from DO (Daylight opening).
- If glazing internally, repeat the method of sealing corners as per backing wedges.

Max™ 100 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M100FDG40 - 16

Wedge glazing charts for Max Framing - 40mm pocket

Note: when different wedges are used, the smaller wedge must go on the rebate side to allow room to fit the glazing bead



CH9505
1mm wedge SANT
Black backing

CH9506
3mm wedge SANT
Yellow backing

Spandrel Glazing

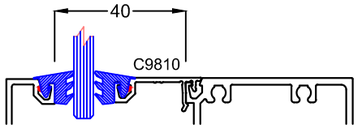
Note: C9810 Spandrel adaptor achieves a 19mm pocket

CH9507
5mm wedge SANT
Green backing

CH9508
6mn wedge SANT
Red backing

CH9509
7mm wedge SANT
Blue backing

CH9510
9mm wedge SANT
Purple backing



	Glass thickness	Example	Rebate wedge	Gap	Glazing wedge	Gap
Max Framing	28mm	8/12/8	CH9508	6mm	CH9508	6mm
	29mm	8.38/12/8.38	CH9507	5mm	CH9508	6mm
	30mm	10/12/8	CH9507	5mm	CH9507	5mm
	31mm	10.38/12/8.38	CH9507	5mm	CH9507	5mm
	32mm	10/12/10	CH9506	3mm	CH9507	5mm
	33mm	10.38/12/8.38	CH9506	3mm	CH9507	5mm
	34mm	13.52/12/6	CH9505	1mm	CH9507	5mm
	Glass thickness	Spandrel Adaptor	Rebate wedge	Gap	Glazing wedge	Gap
Max spandrel Glazing	6mm	C9810	CH9506	5mm	CH9509	7mm
	8mm	C9810	CH9506	5mm	CH9507	5mm
	10mm	C9810	CH9503	3mm	CH9507	5mm

Urbanest LaTrobe St, Victoria
MAX™ 100mm Front Double Glazed frames,
MAX™ 150mm Structural Glazed