

**Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket**  
**Max Framing Systems: M150FDG40 - 1**

## Max 150 Front Double Glazed - 40mm Pocket



### FEATURES:

- 150mm Frame Depth
- 50mm Sight Line generally
- Glass Plane-Front
- Accepts 29mm to 34mm IGU's with standard 40mm pocket
- Single Glazed Spandrel adaptor option
- Flush Glazed with 12mm Glass Bite in all configurations
- Eliminates ugly visible drain slots in the face of transoms
- External glazed
- Awning & Casement Sash options
- Hinged, Pivot, Sliding & Multi sliding door tracks
- Dry Glazed with High performance Santoprene Gaskets
  - Anti Stretch Gaskets
  - 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
- Stack joint detail for low rise curtain walls

### NOTE:

This system is completely compatible with U-Max thermally broken framing systems

### LIMITATION:

External Glazed option only at this stage  
May be 2 sided structurally glazed. Not recommended for 4 sided structural glazed

### ALTERNATIVES:

Standard 150mm frame with 34mm pocket

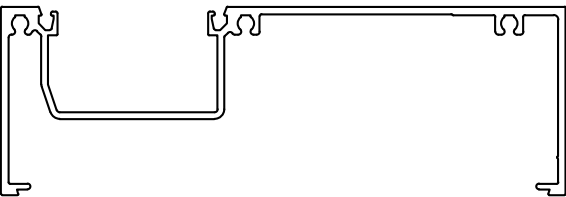
VicRoads - Hub@Sunshine  
MAX™ 150mm Front Double Glazed frames



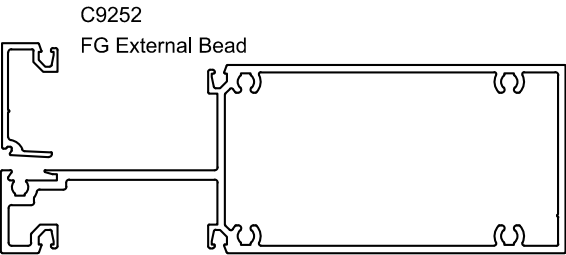
Slater + Gordon  
1800 555 777



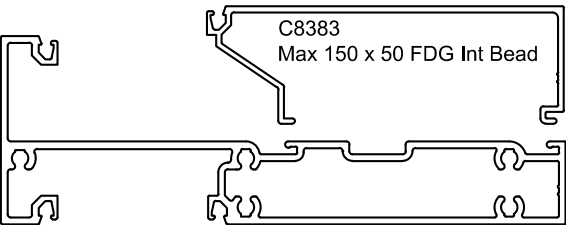
Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket  
Max Framing Systems: M150FDG40 - 2  
Extrusion ID



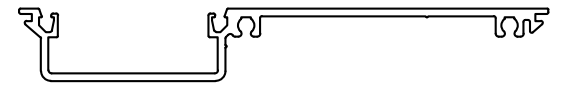
C9590  
Max 150 x 50 FDG 40mm Pocket Frame



C9591  
Max 150 x 50 FDG Ext Sill 40mm Pocket



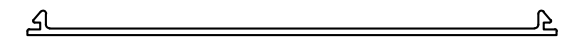
C9592  
Max 150 x 50 FDG Int Sill 40mm Pocket



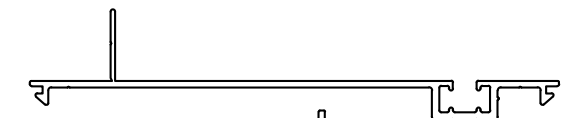
C9593  
Max 150 x 50 FDG Pocketed Filler 40mm Pocket



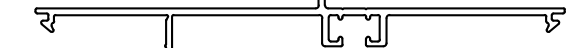
C9775  
Max 150 Flat Filler - Screw flutes



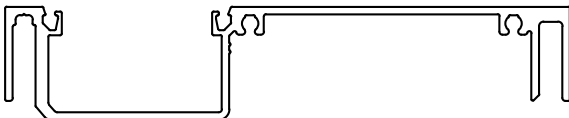
C1756  
150 Flat Filler



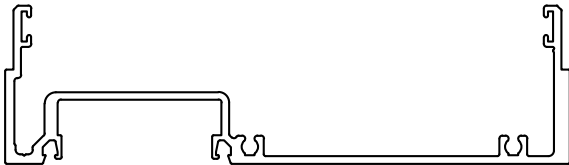
C9304  
150 Nailing Fin



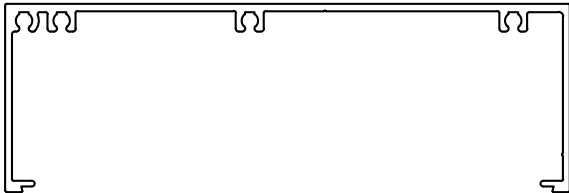
C9291  
150 Build In Fin



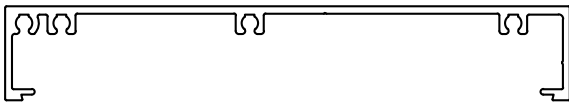
C9594  
150 FDG 40mm Pocket Deep Mullion



C9595  
150 FDG 40mm Pocket Shallow Mullion



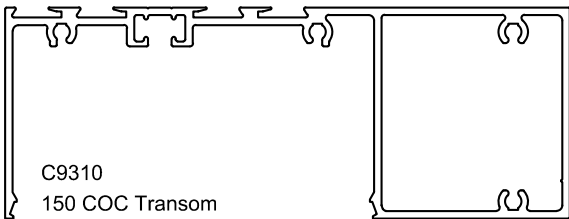
C9579  
150 X 50 Plain Frame



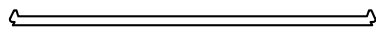
C9580  
150 x 25 Plain Frame



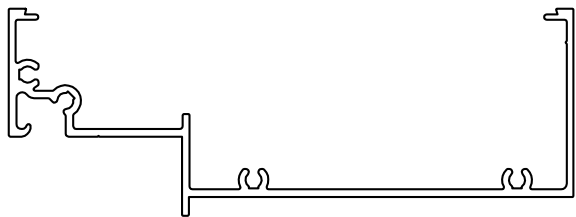
C9581  
150 S/Mating Plain Frame



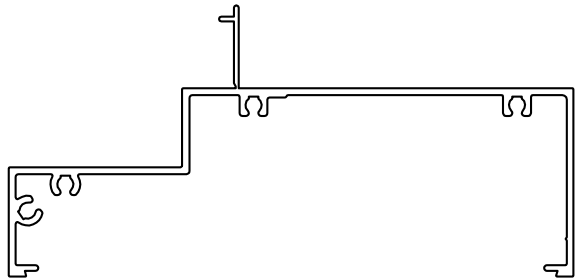
C9310  
150 COC Transom



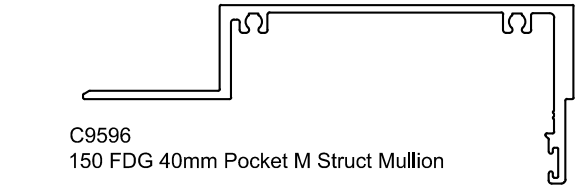
C9228  
COC Filler Plate



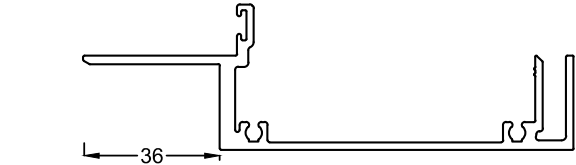
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150 x 50 Hinge Head



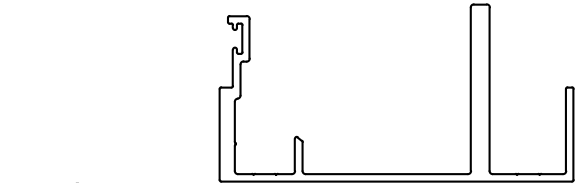
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150 x 50 Winder Sill



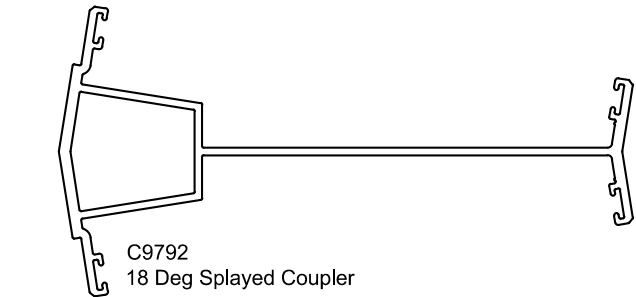
C9596  
150 FDG 40mm Pocket M Struct Mullion



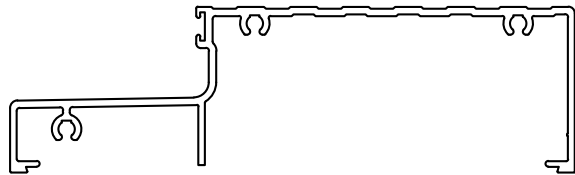
C9597  
150 FDG 40mm Pocket F Struct Mullion



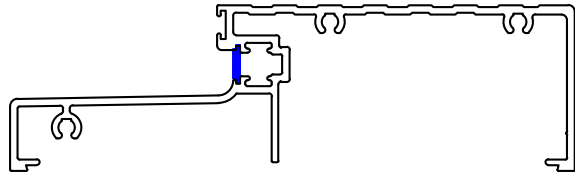
C9599  
150 FDG 40mm S/M Blind Mullion



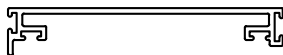
C9792  
18 Deg Splayed Coupler



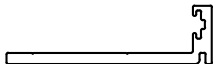
C9528  
150 x 44 Threshold - Open Out (45 door)



C9314  
150 x 44mm Threshold Open Out (50 door)



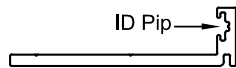
C9290  
Plant On Door Stop



C9809  
Plant On Door Stop (45 door)



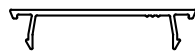
C4989  
Plant On Door Stop



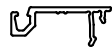
C9565  
Max Plant On Door Stop (50 door)



C9219  
25mm pocket

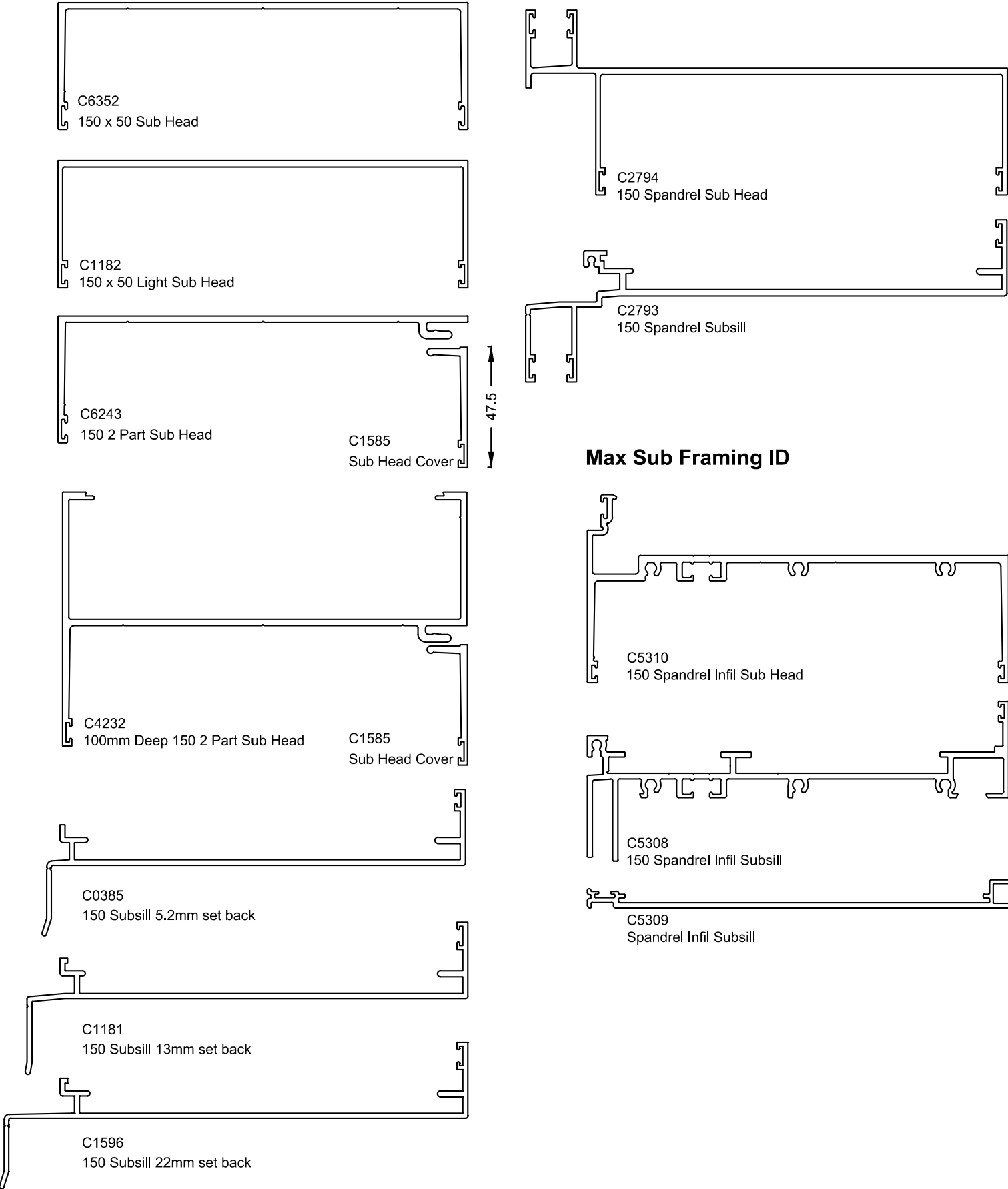
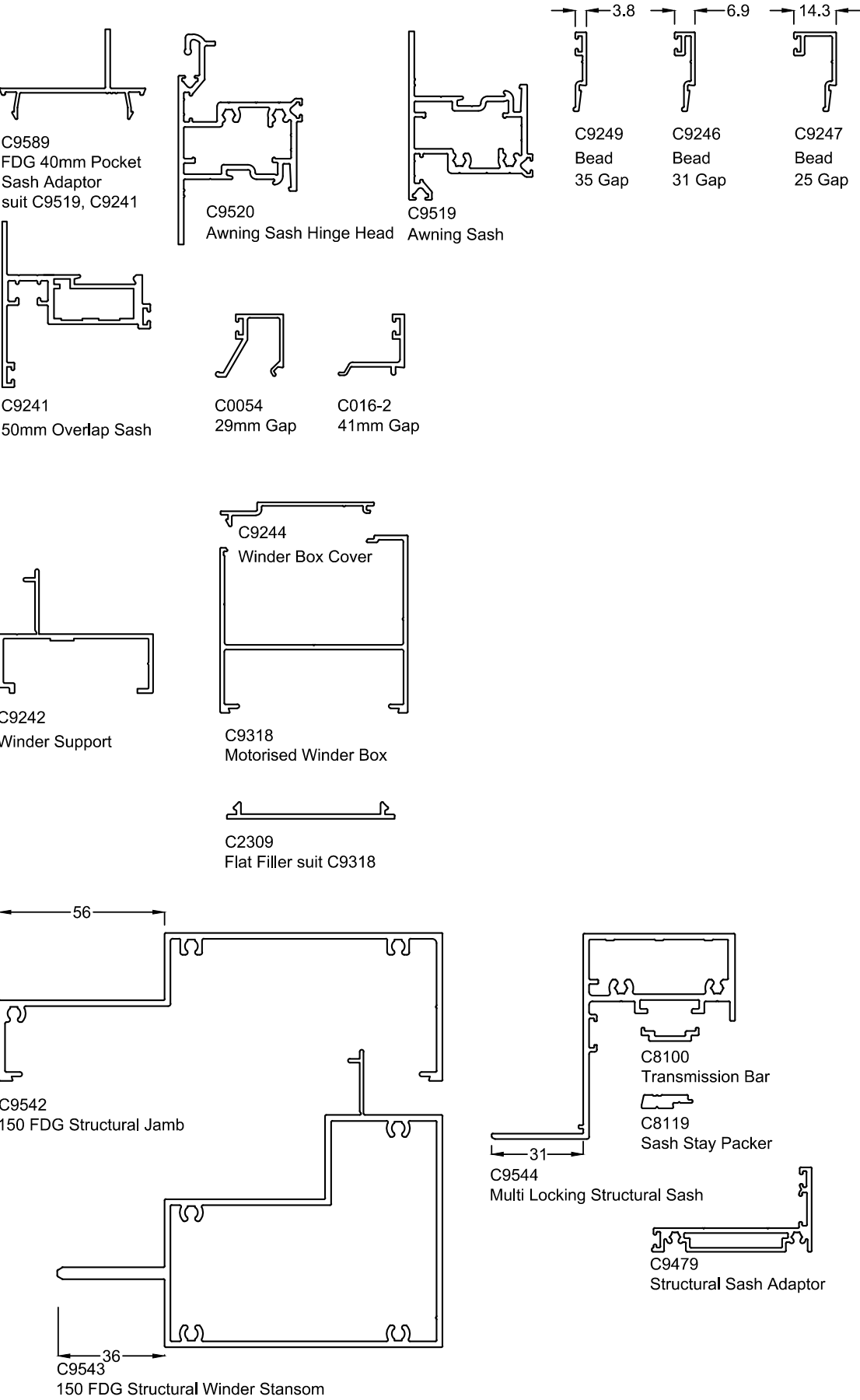


C9598  
FDG 40mm Flush Filler



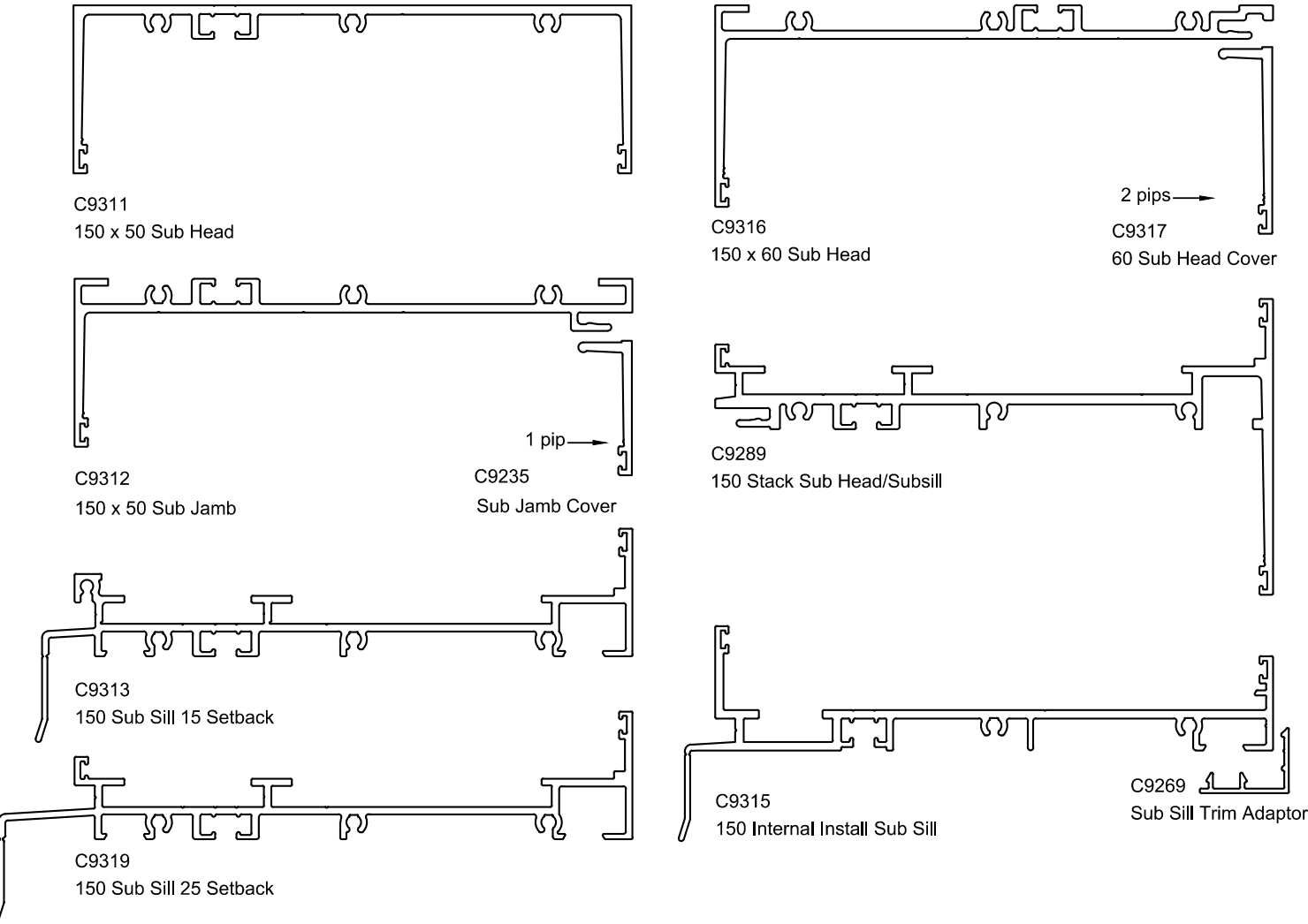
C9810  
18mm Spandrel Adaptor

Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket  
Max Framing Systems: M150FDG40 - 3  
Extrusion ID

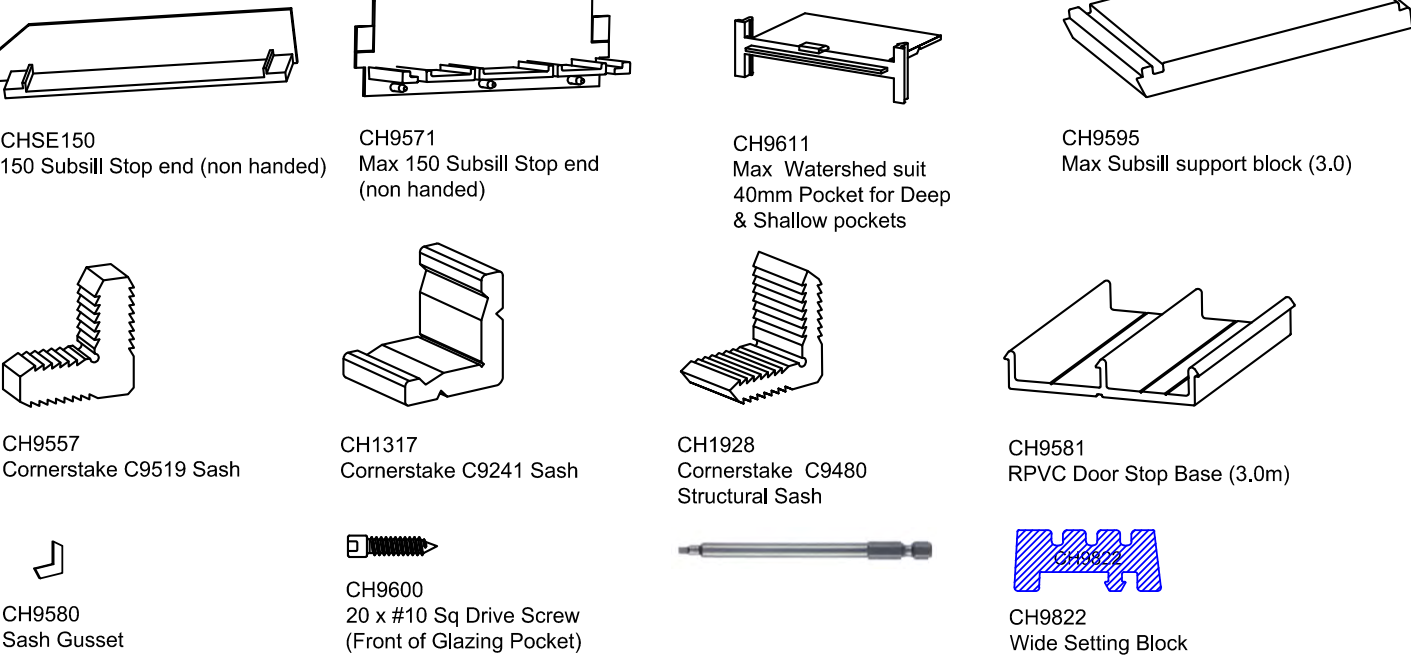


Max Sub Framing ID

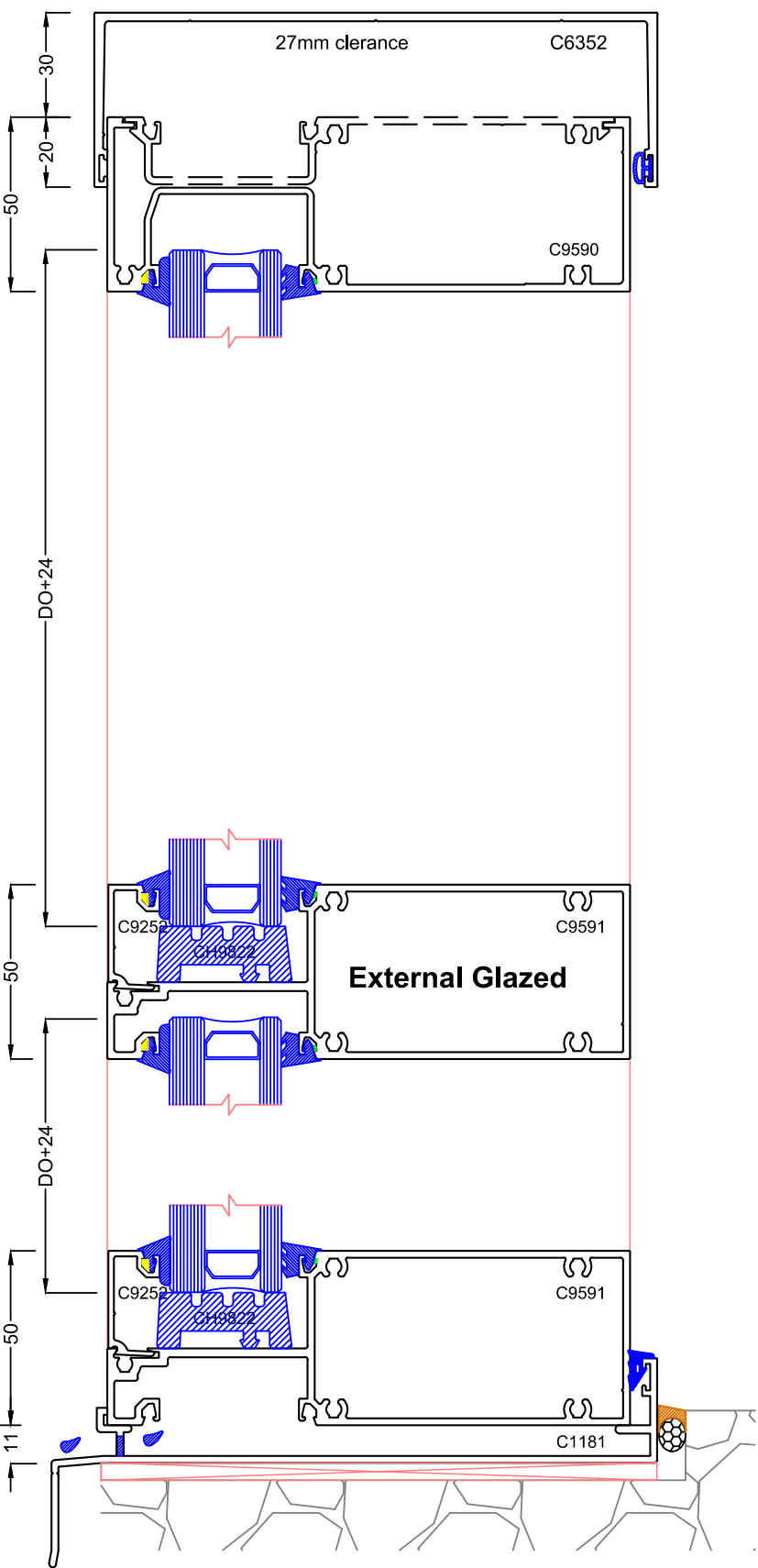
Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket  
Max Framing Systems: M150FDG40 - 4  
Extrusion ID



Component ID



50mm Head & Sill Details External Glazed





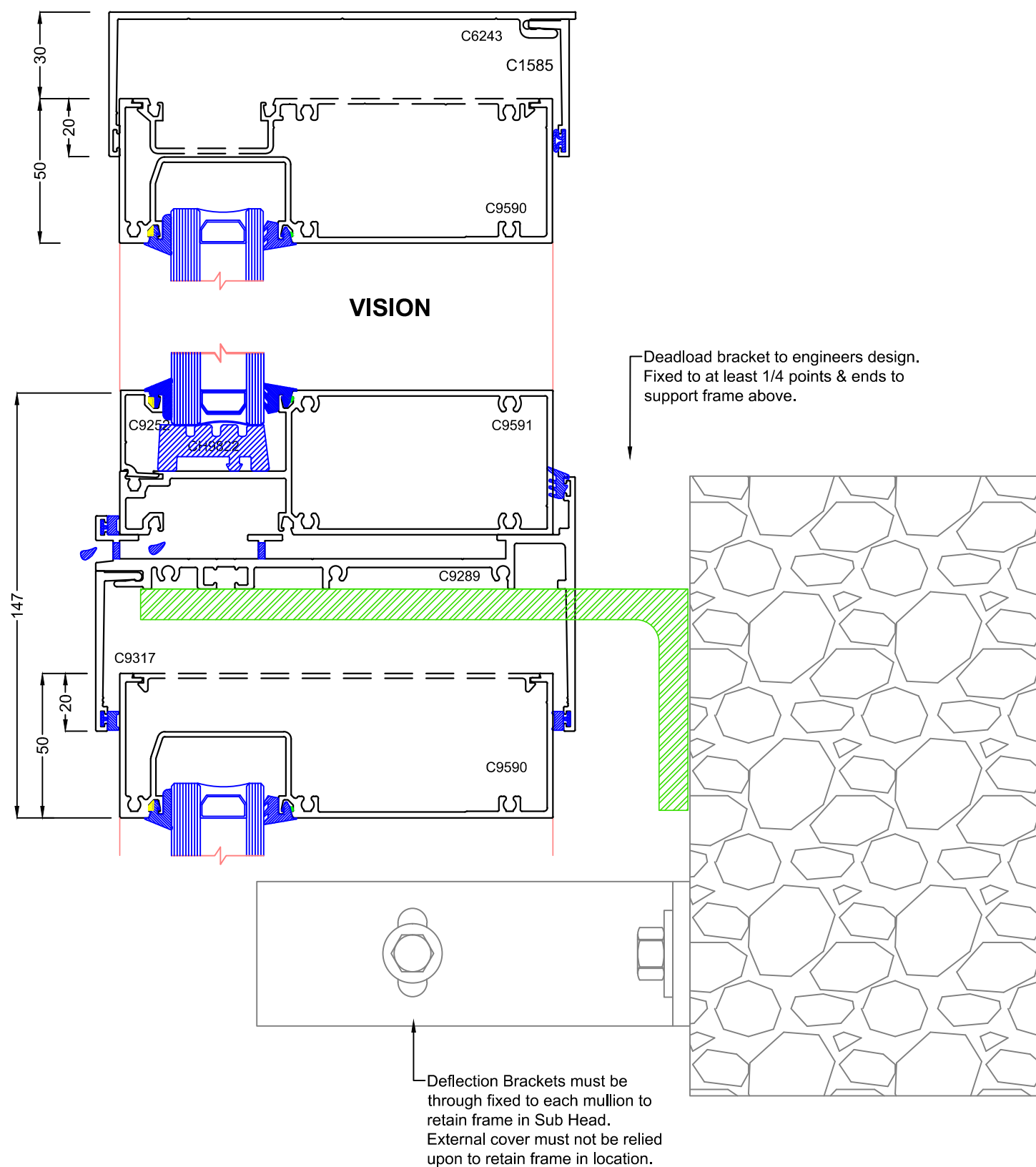


## Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

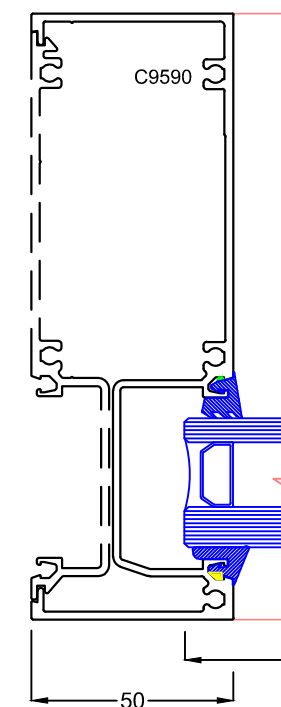
### Max Framing Systems: M150FDG40 - 6

#### 50mm Head & Sill with Stack Sub Head / Sill

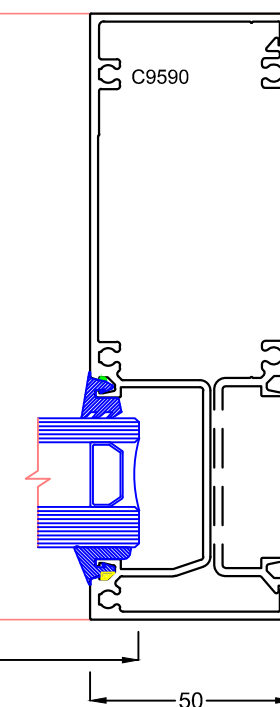
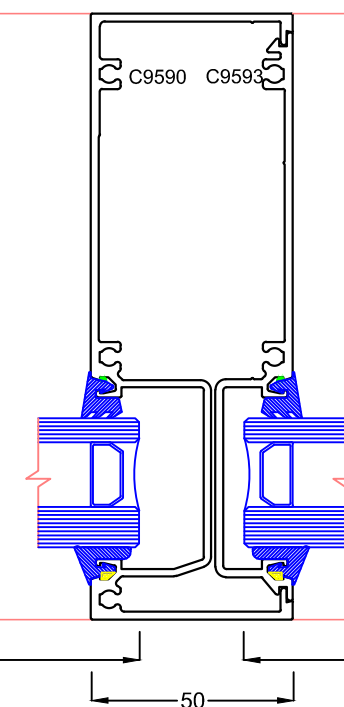
Used where mullion fixing isn't available on the frame above, as required by a stack joint. The top frame is retained by a sub head & the stack sub head/sill is bracketed back to the structure to take the weight of the frame below.



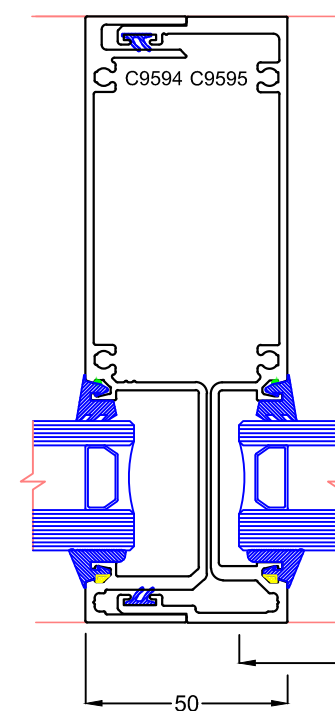
#### 50mm Jamb



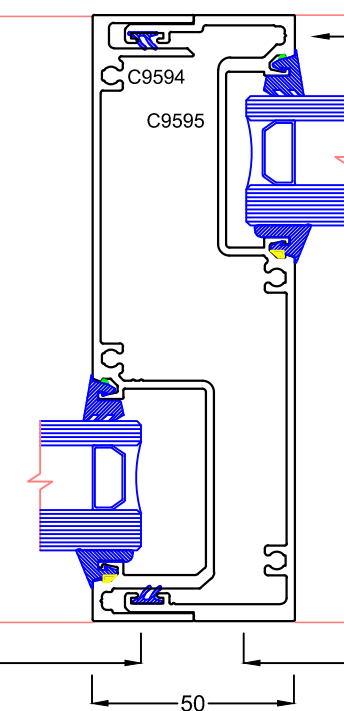
#### 50mm Standard Mullion



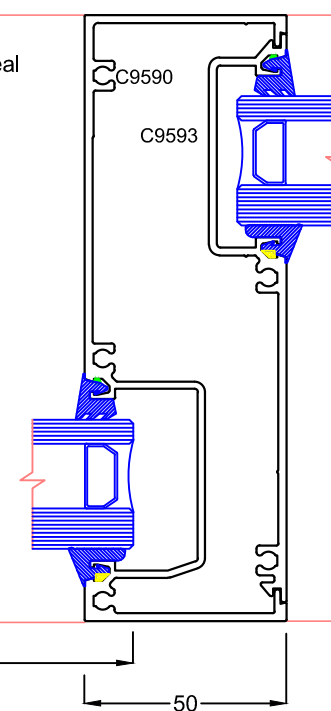
#### 50mm Split Mullion



#### Front Reversed Split Mullion



#### Front Reversed Std Mullion





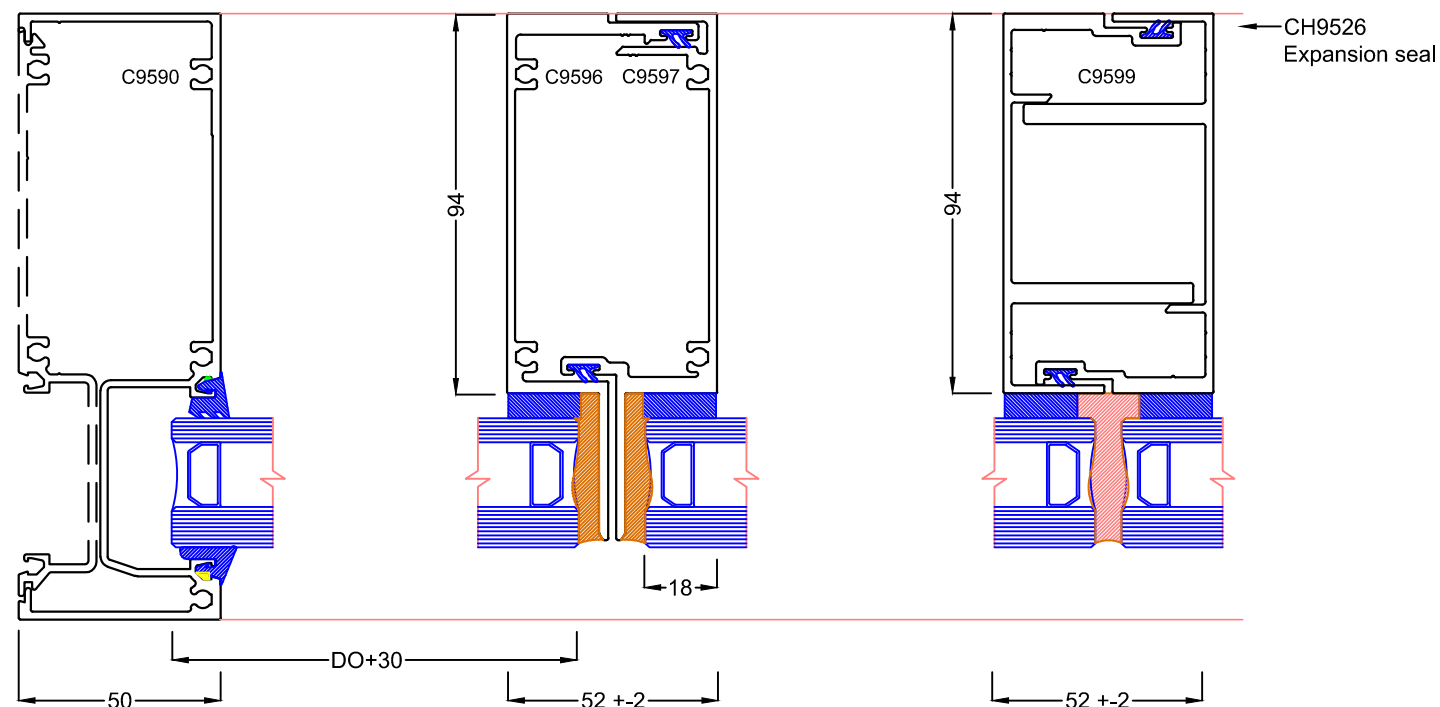
## Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M150FDG40 - 7

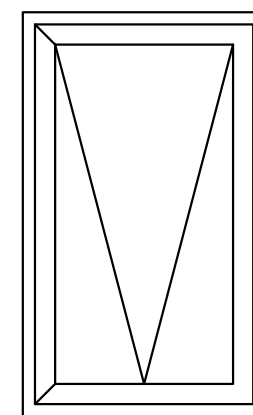
50mm Jamb

50mm Structural  
Split Mullion

50mm Blind  
Structural Mullion



46mm Overlap Awning Sash



### Note:

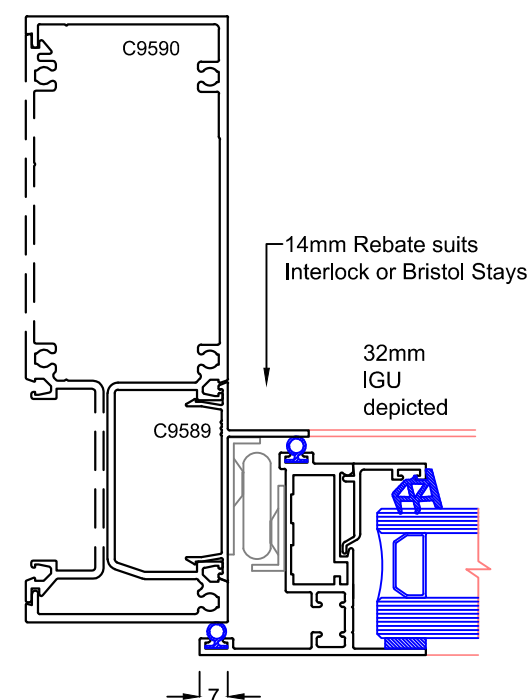
The Overlap Sash depicted requires awning stays but elegantly suits the hinge head & winder sill. This Sash is depicted as it matches the glass thickness of the frame.

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

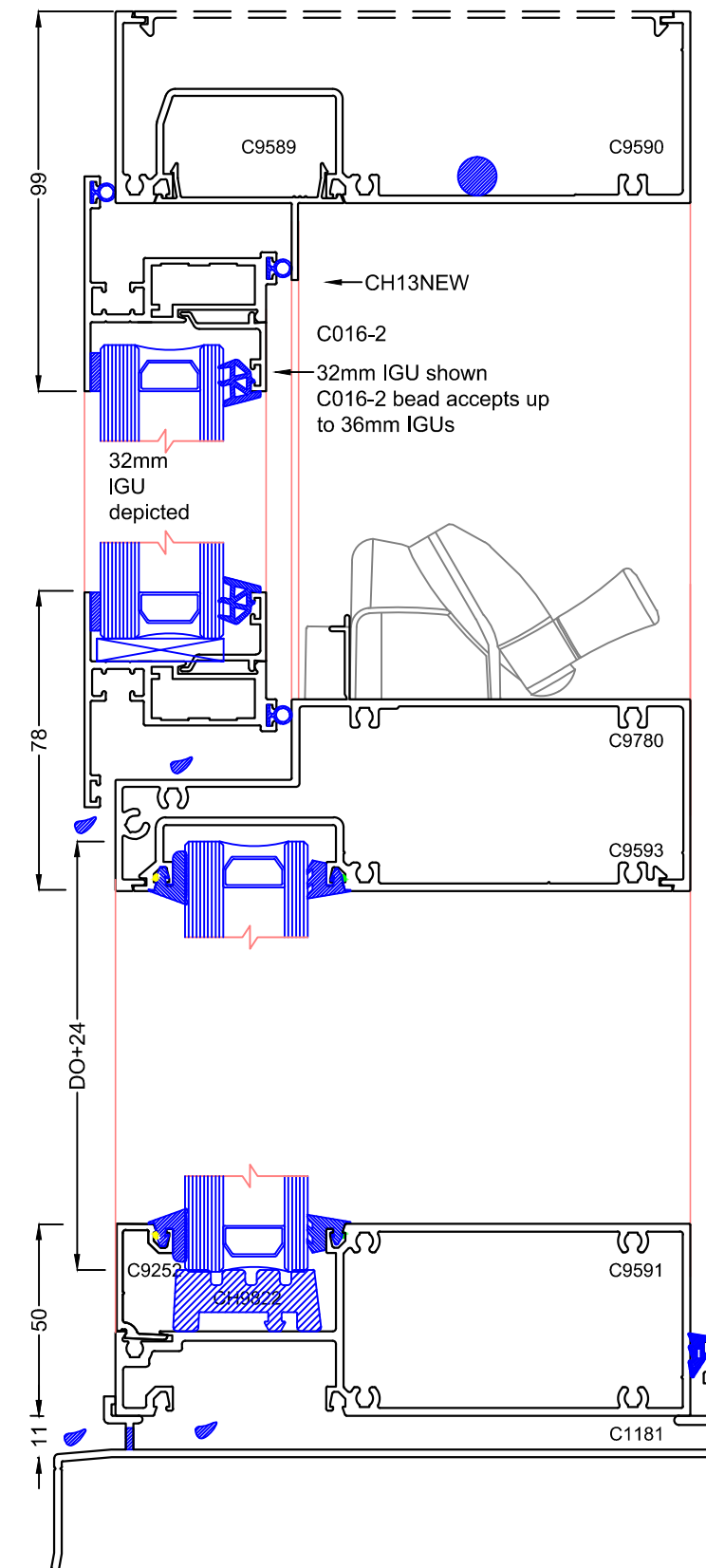
- Max Sash Height: 1600mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass: 6mm - 35mm
- Accepts Q-Lon acoustic seals

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

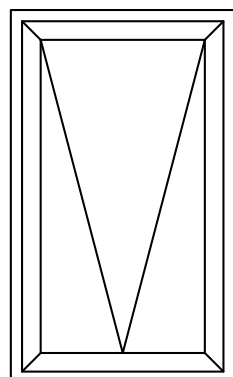
### Jamb Detail



50mm Head & Winder Sill Transom

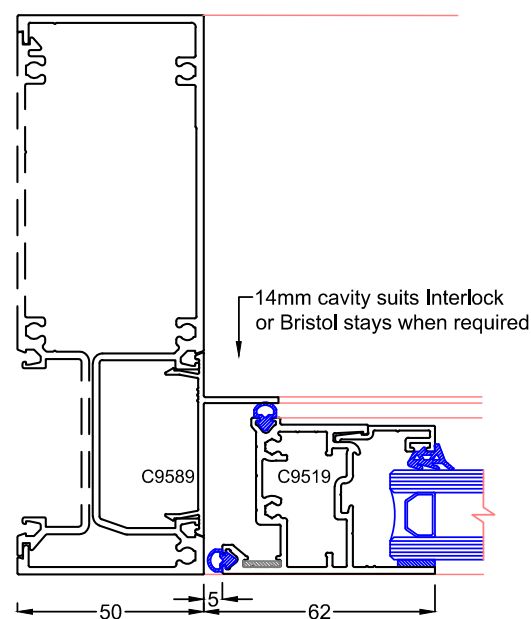


**Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket**  
**Max Framing Systems: M150FDG40 - 8**  
**Inset Awning Sash**

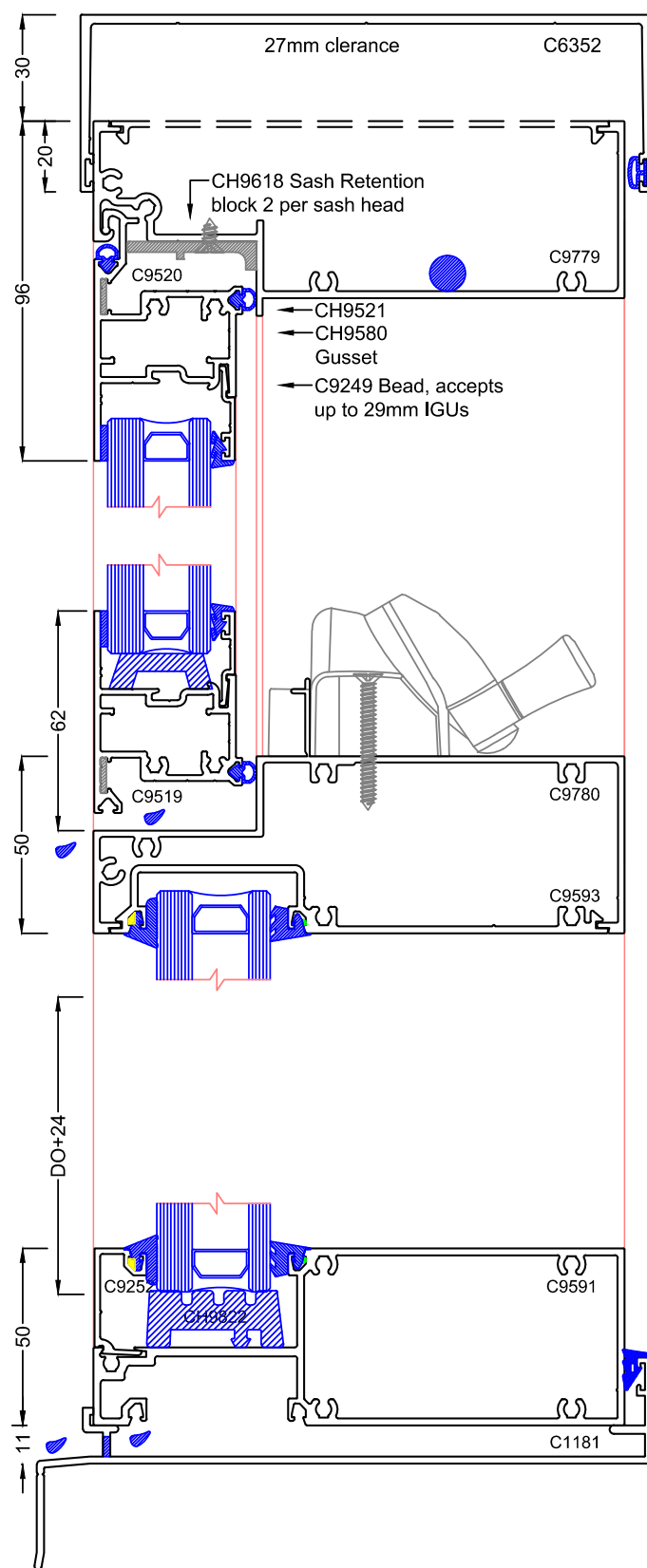


Note:  
Maximum Sash weights generally are 30kg for a single chain winder & 70kg for a dual chain winder & 70kg with stays.  
• Max Sash Height: 1600mm  
• Min Sash Width: 450mm  
• Max Sash Width: 1200mm  
• Glass: 6-28mm  
• Accepts Q-Lon acoustic seals  
Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

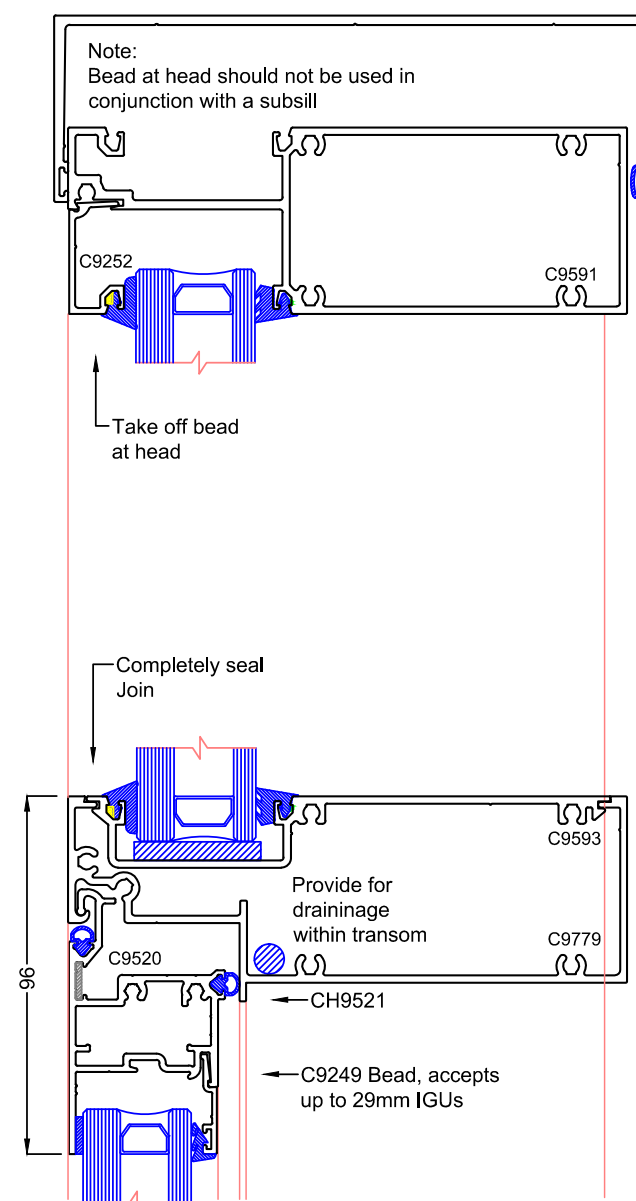
**Jamb Detail**



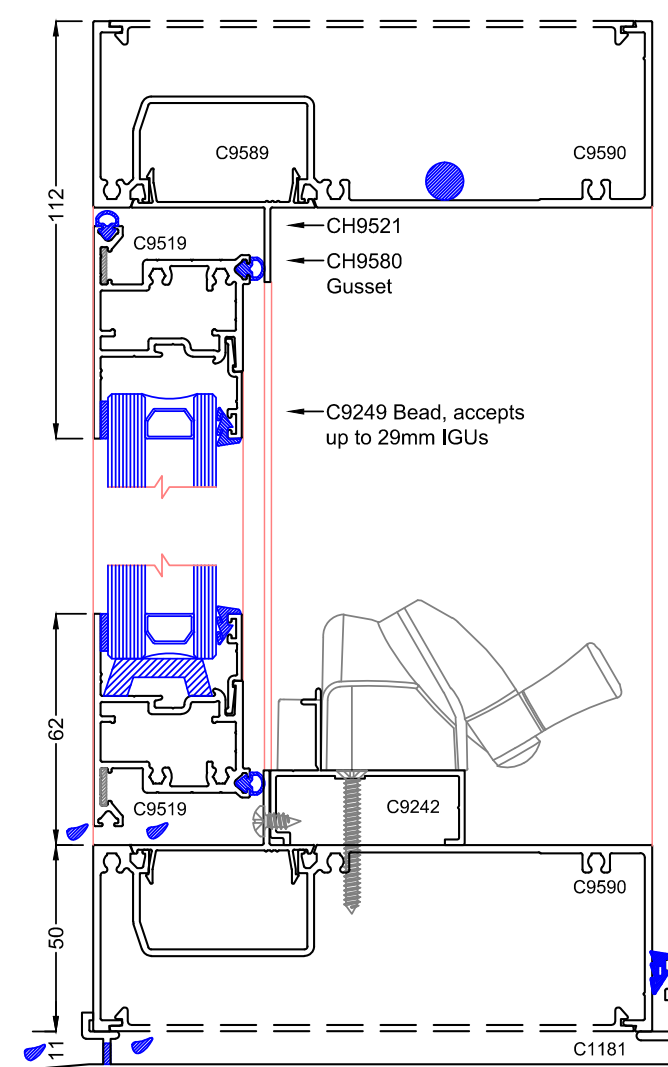
**50mm Hinge Head & Winder Transom**



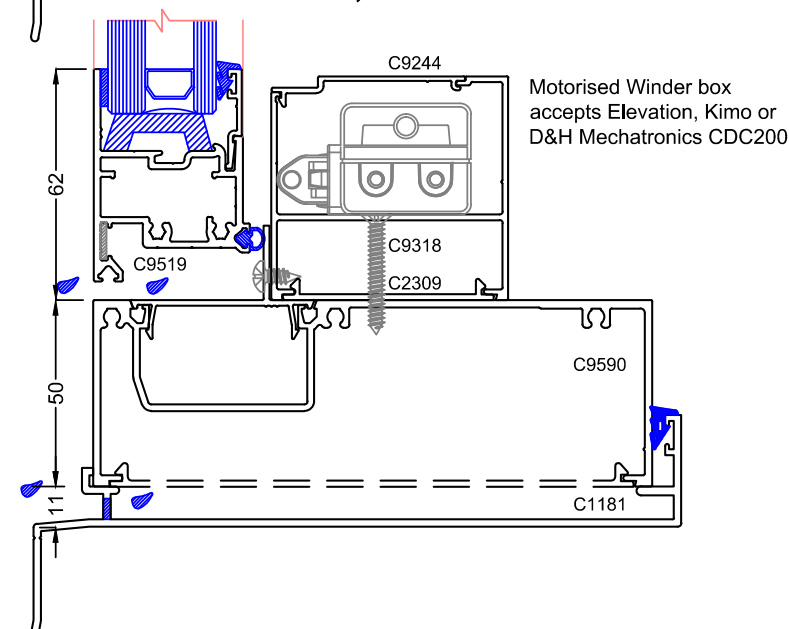
**50mm Hinge Head Transom**



**Inset Awning Sash on stays with winder**



**50mm Head & Sill, with Motorised remote winder**



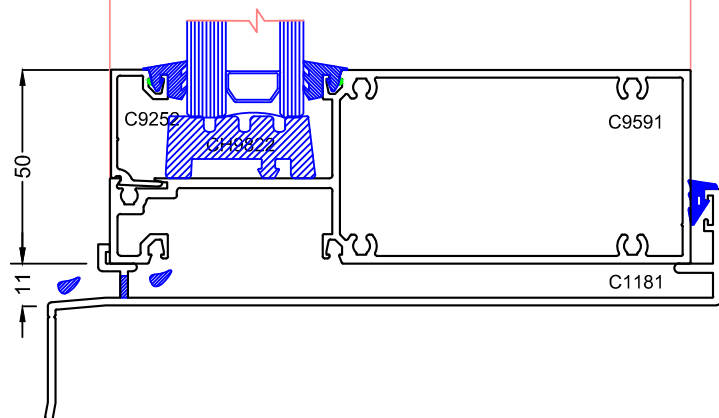
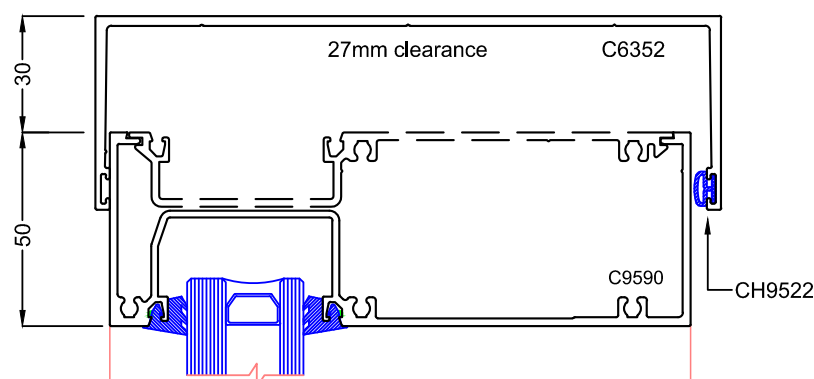


## Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

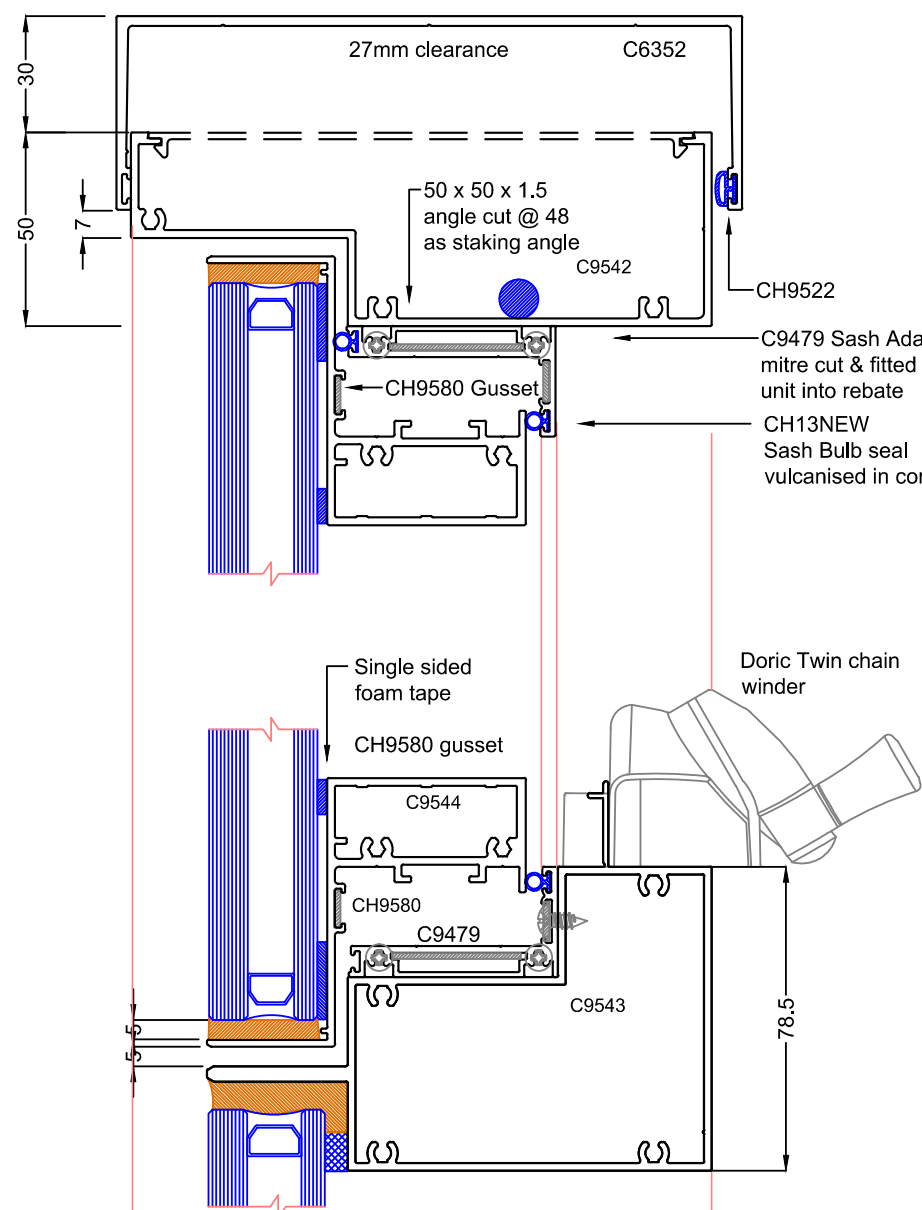
### Max Framing Systems: M150FDG40 - 9

#### Structural Glazed Awning Sash with pocketed frame

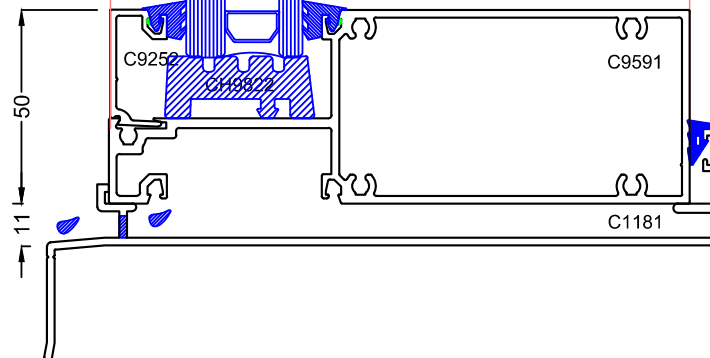
This detail was developed for applications where it was preferred to site glaze & where possible to use captivated horizontals. Care needs to be taken with the configurations & machining associated with the mix of structural & pocketed assemblies.



#### Structural Glazed Sash with Winder transom



#### External Beaded Sill

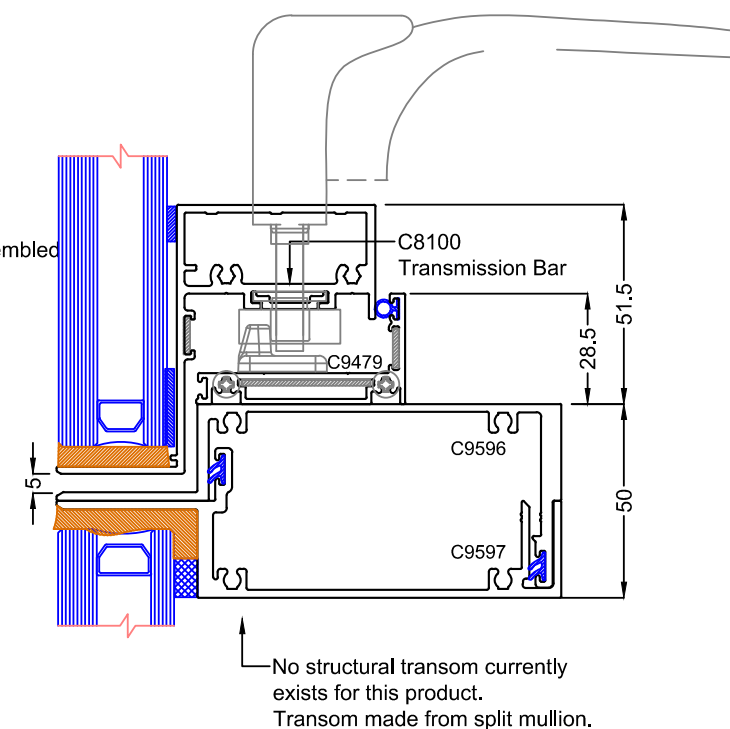


#### Structural Glazed Sash with Multi locking handle

An alternative means of operating awning windows, a handle drives multi locking points around the sash. This increases weathertightness & resistance to windloads.

Its function is far superior to conventional cam handles. One handle only is required per Sash & is fitted on the bottom rail of awning Sashes & at an appropriate height on a Sash stile on casements.

Fitting of flyscreens become difficult & would usually require a retractable screen.



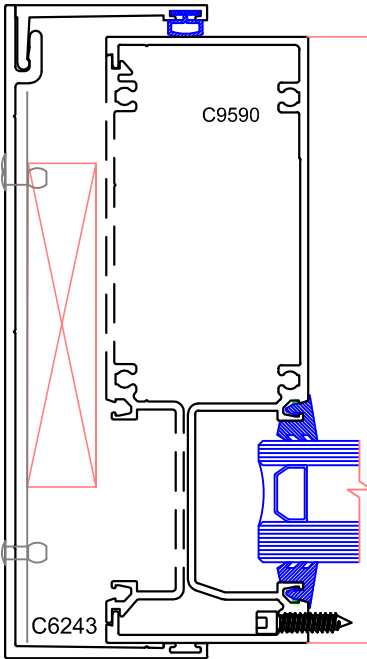
# Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

## Max Framing Systems: M150FDG40 - 10

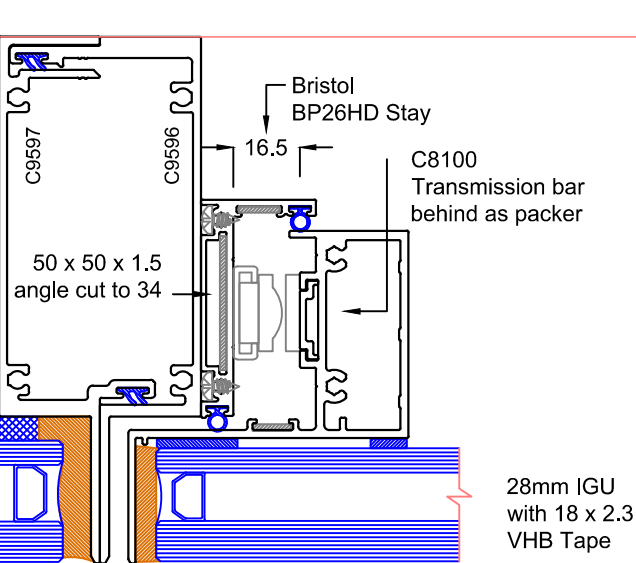
### Structural Glazed Sash with pocketed frame

This detail was developed for applications where it was preferred to site glaze & where possible use captivated horizontals. Care needs to be taken with the configurations & machining associated with the mix of structural & pocketed assemblies.

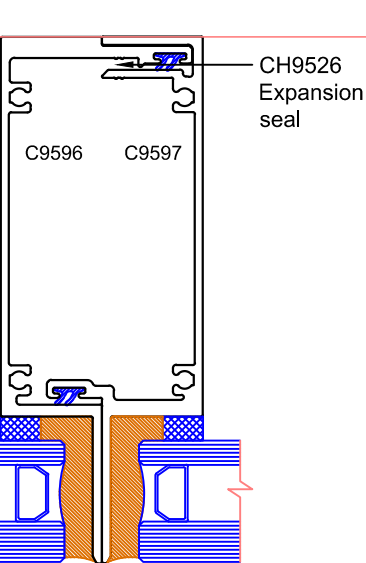
#### Pocketed Jamb in Sub Jamb



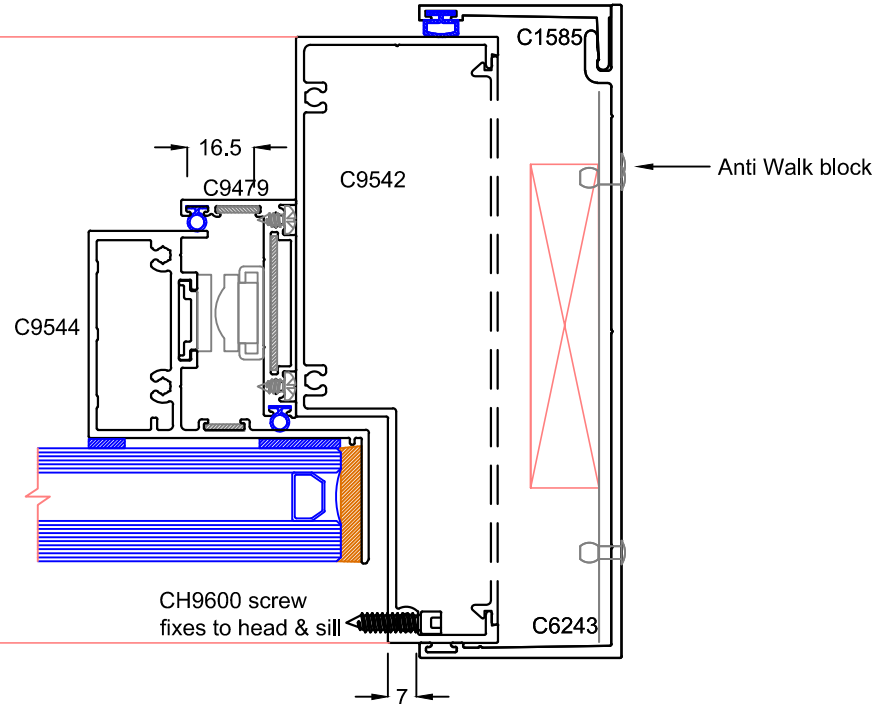
#### Sub Jamb Detail with sash



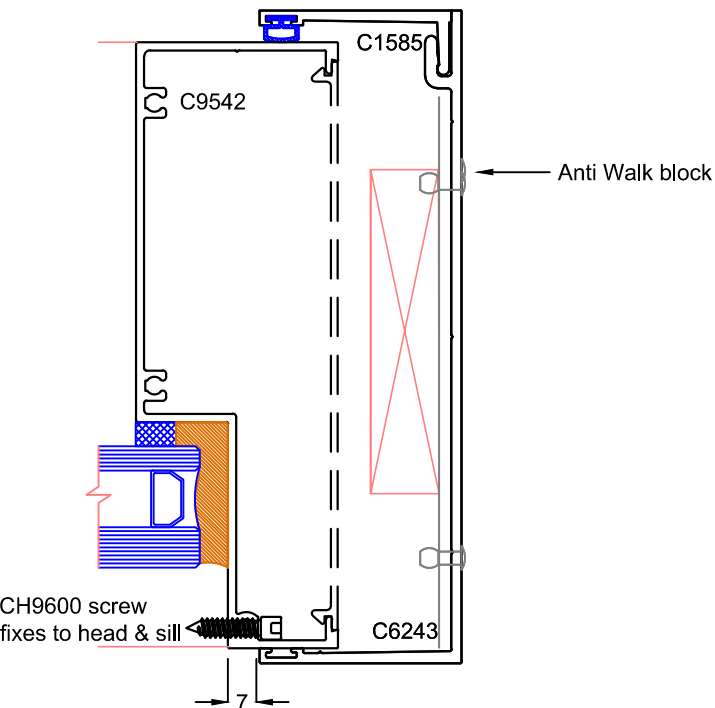
#### Structural Mullion



#### Rebated Jamb in Sub Jamb



#### Rebated Jamb in Sub Jamb



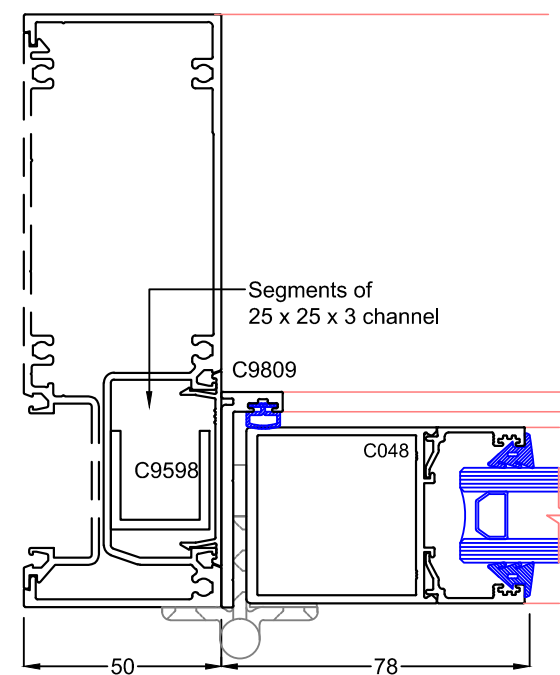
NOTE: Fixedlight detail below Sash, structural glaze into Rebated Jamb



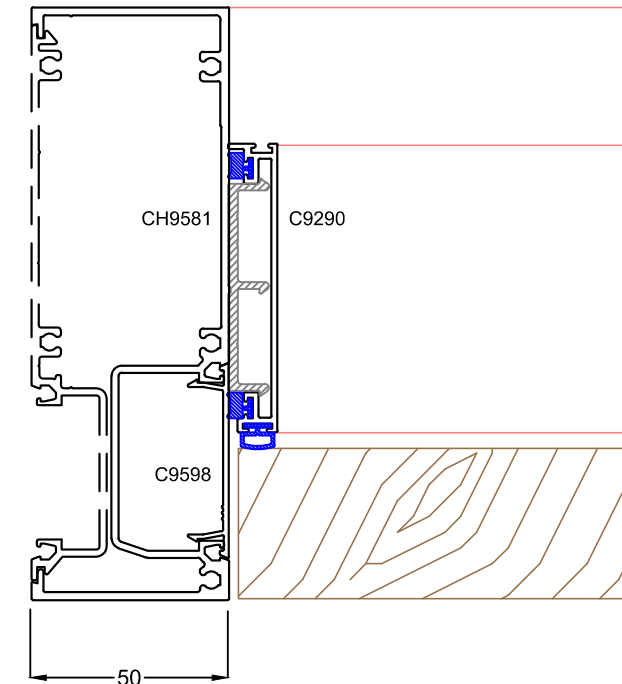
# Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M150FDG40 - 11

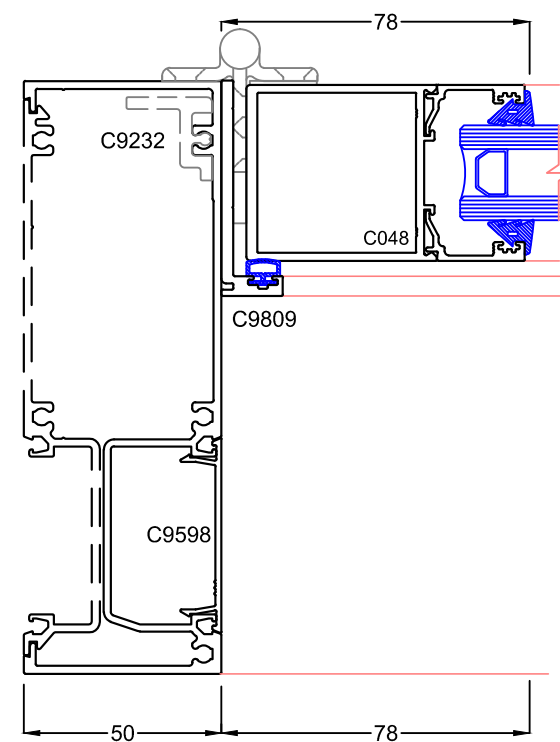
Open OUT Door & 45 door stop



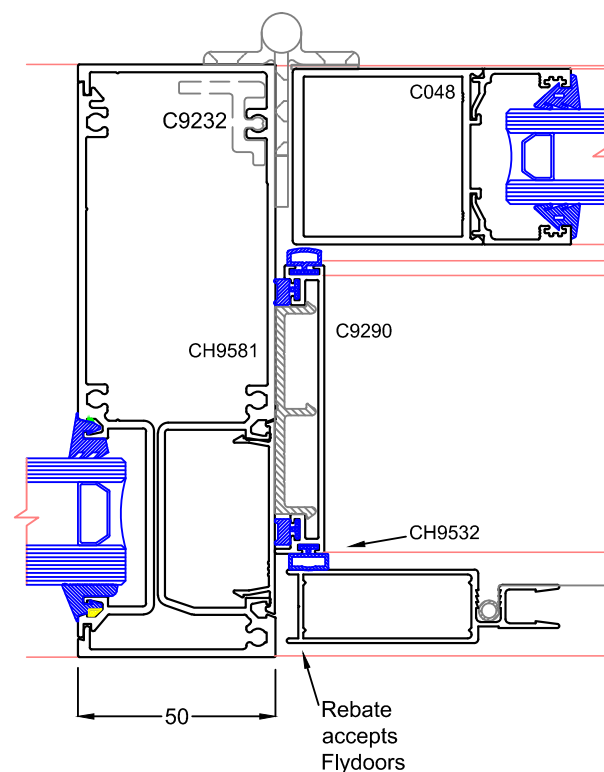
Open OUT Timber Door



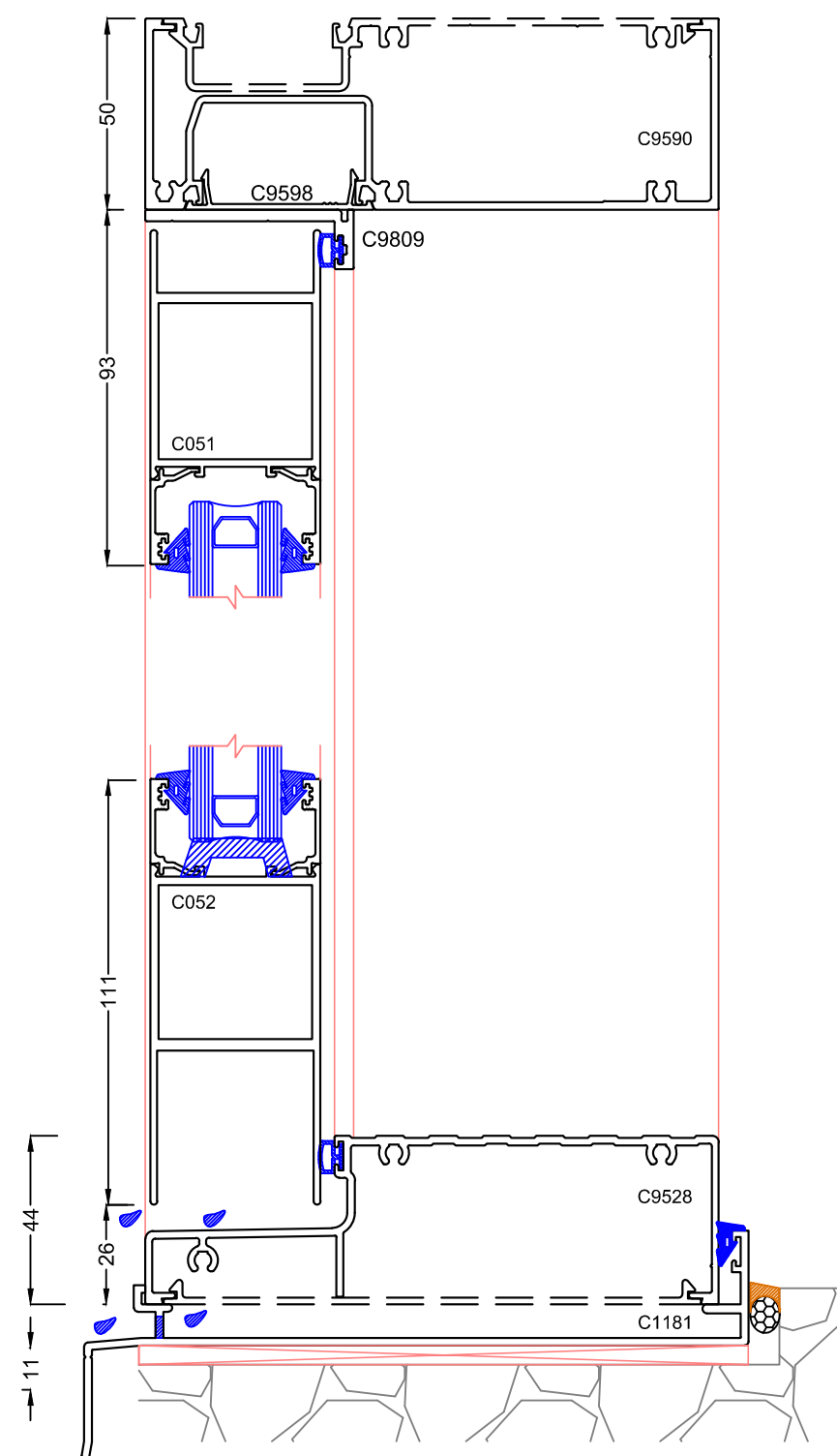
Open IN Door



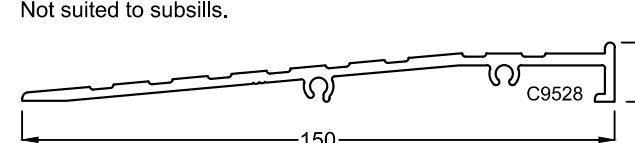
Open IN Door with  
conceal fix on door stop



Open OUT Door



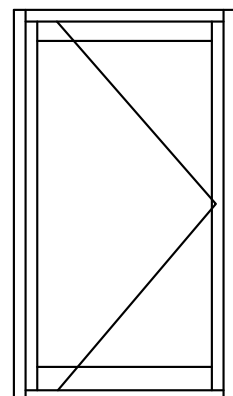
Wheelchair Threshold C669  
Not suited to subsills.



## Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

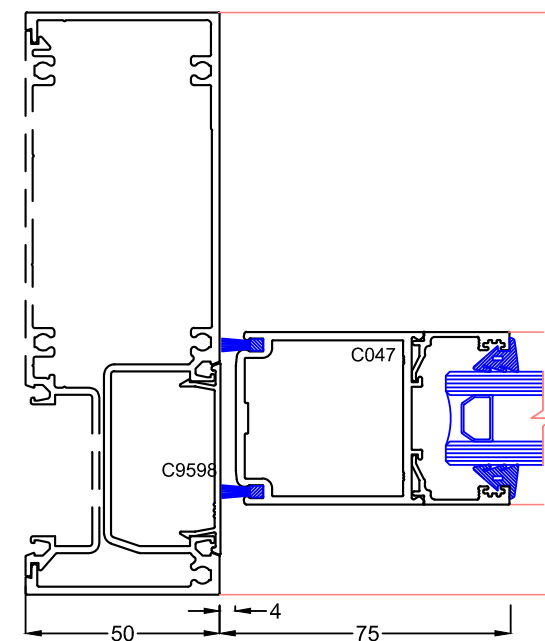
Max Framing Systems: M150FDG40 - 12

### Pivot Door

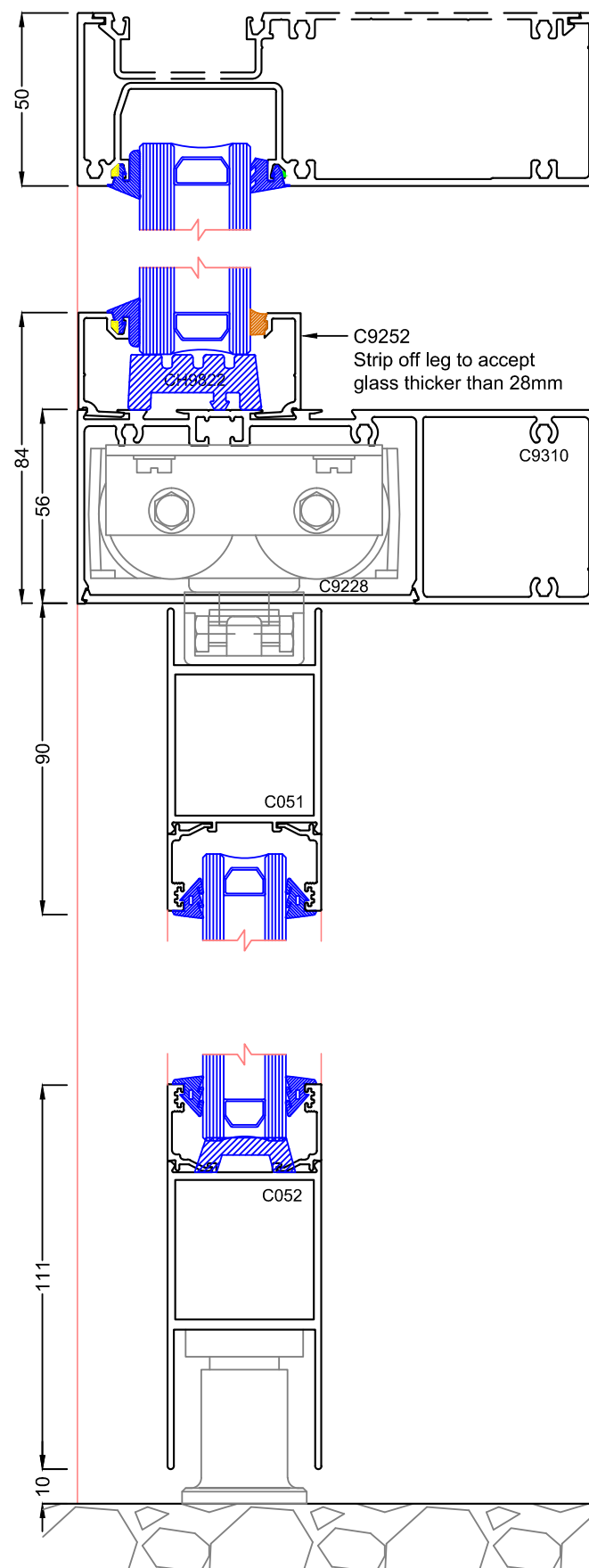


Note:  
Maximum door height 2700mm  
Maximum Panel width 1000mm  
Pivot point usually 100mm

### Jamb Detail

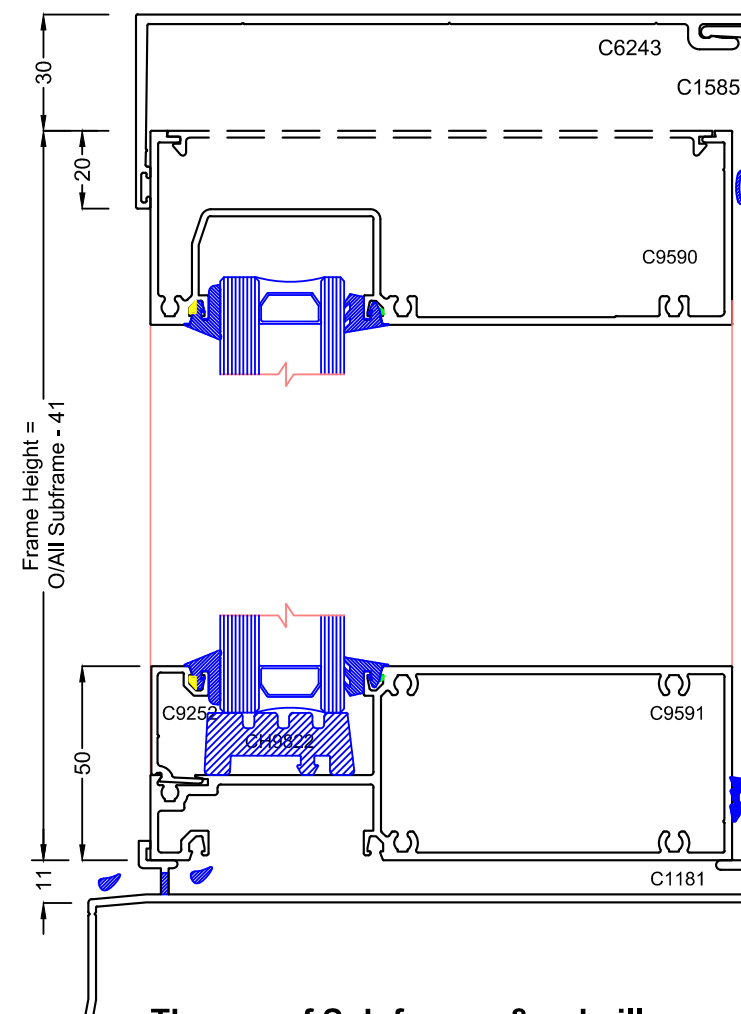


### Pivot Door & Highlight



### One Piece Sub Head (50 deep)

Typical detail for installation from outside



### 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 is sealed during installation of the subsill & contains water within the 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.

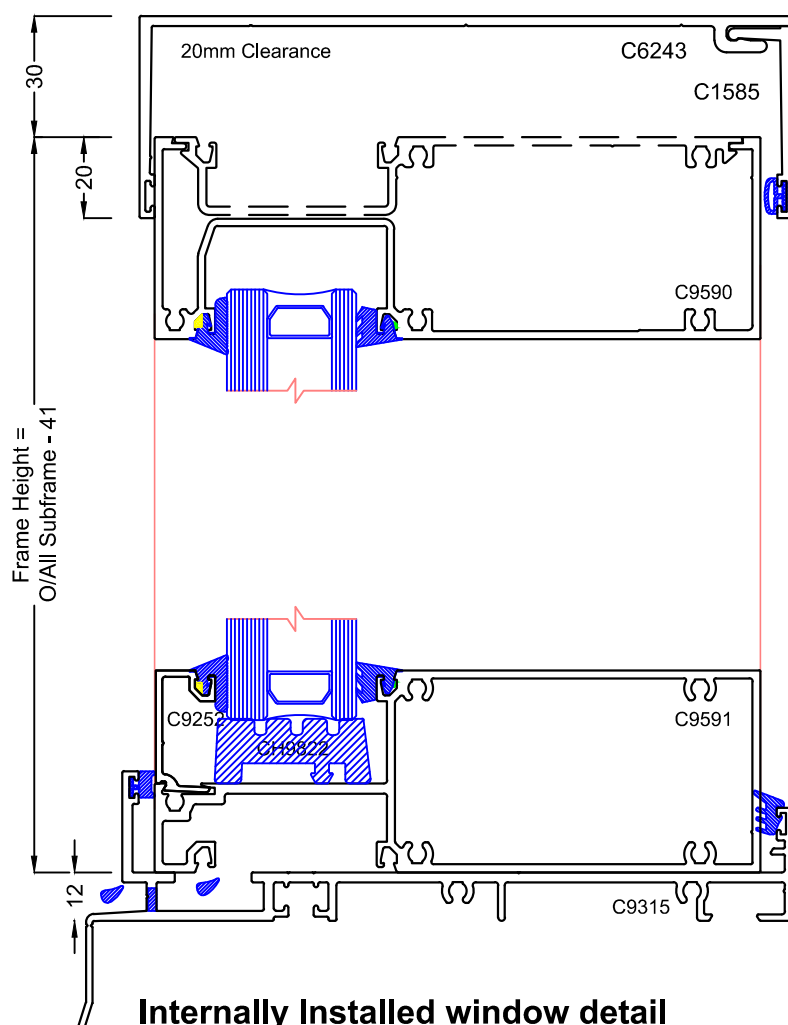
It must be remembered that all window installations require a continuous internal seal especially & the use of subsills & subframes are especially useful in achieving this.



## Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

### Max Framing Systems: M150FDG40 - 13

#### Two Part Sub Head & Subsill



#### Internally Installed window detail

This detail depicts a 2 part sub head & unique subsill designed for internal frame installation.

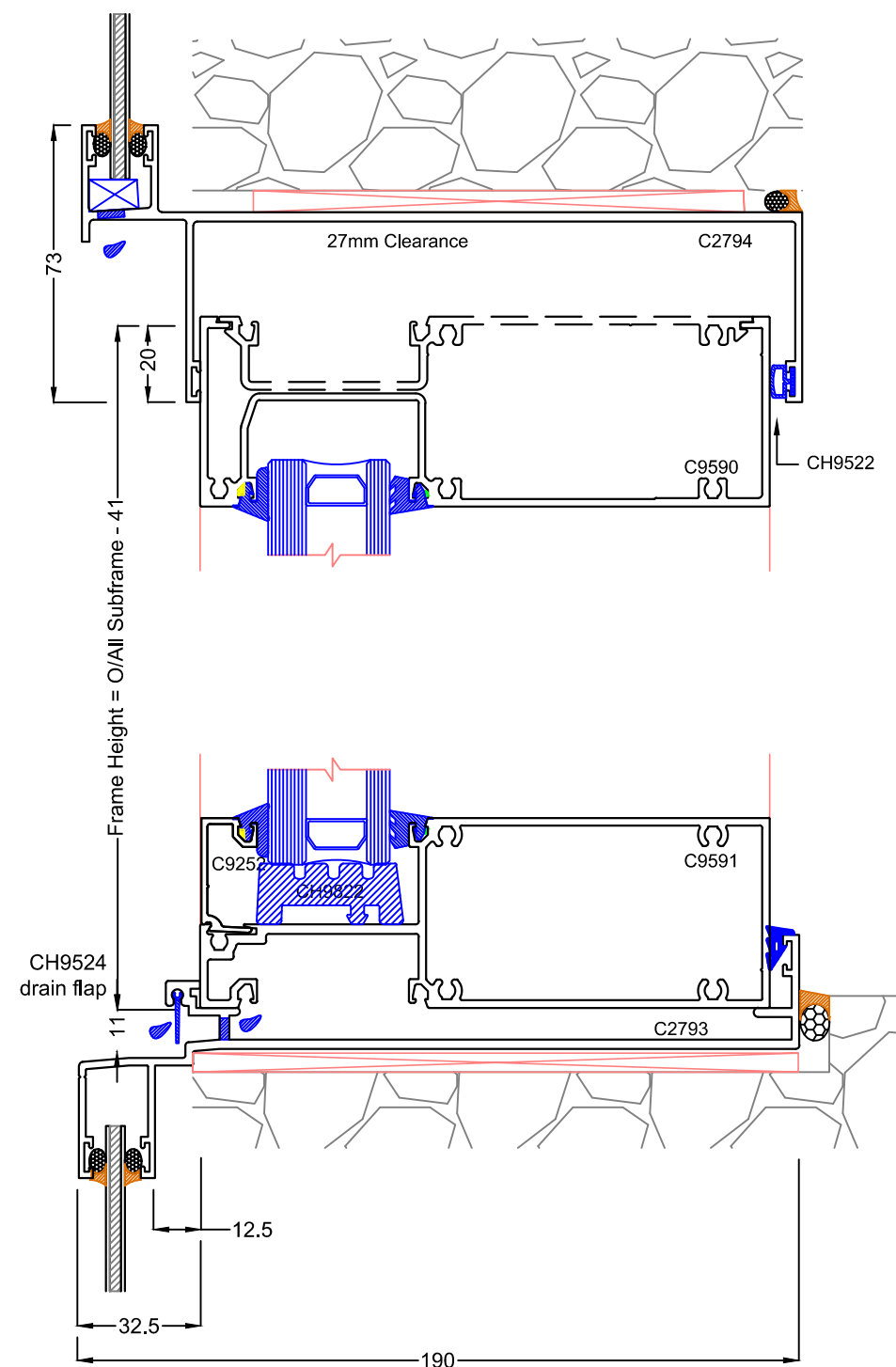
With the sub head & subsill fitted, the frame has an external rebate which aids the installation of frames from inside.

The frame is angled into the subsill first where the external rebate gives it a positive alignment, & is then straightened to vertical & the sub head cover fitted to captivate the head.

Depending on the application this detail can be used with a sub jamb as well.

#### Spandrel Sub Head & Subsill

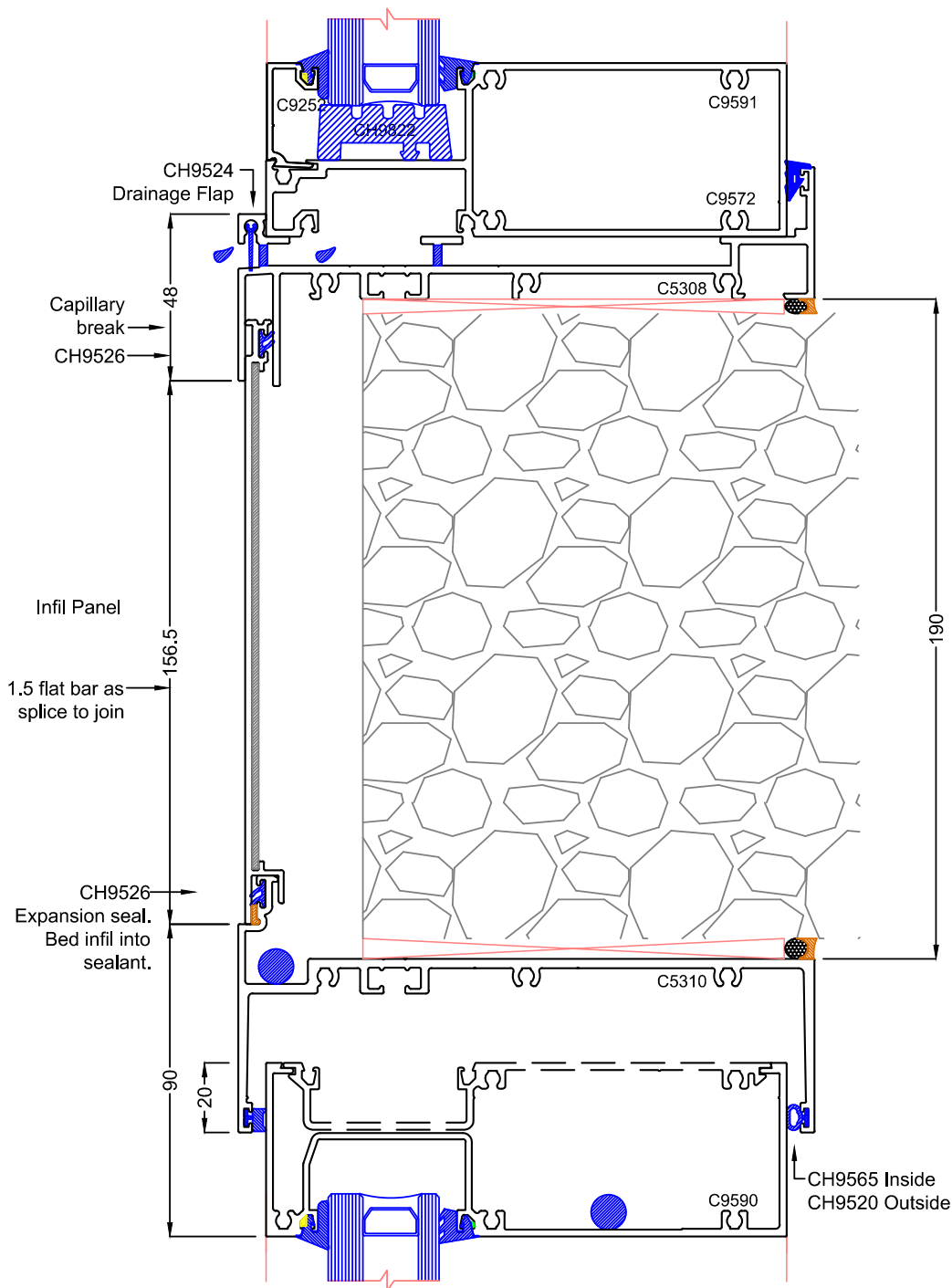
Spandrels areas above or below frames can be captured by the Spandrel sub frames, especially sheet or composite panels.



# **Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket** **Max Framing Systems: M150FDG40 - 14**

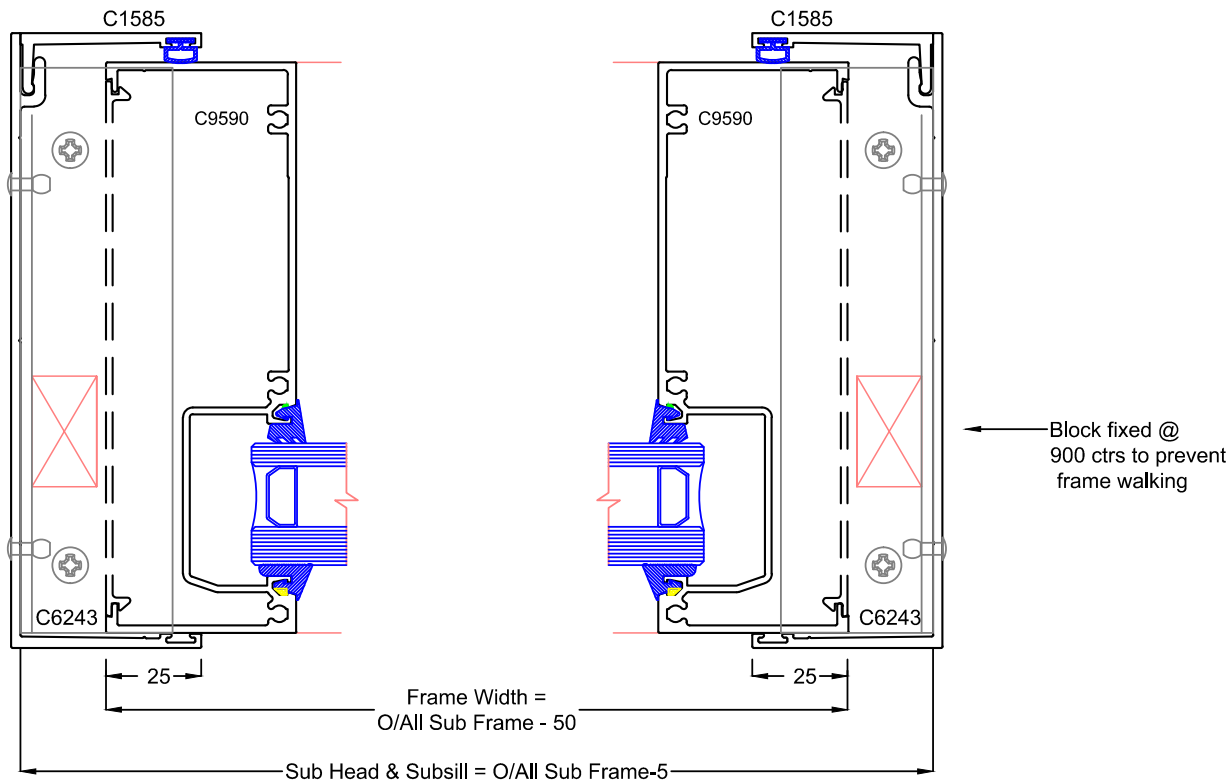
## **Spandrel Infil Sub Head & Subsill**

Used in a similar manner to other spandrel sub framing, this has been especially developed to suit a specific size extruded infil to cover the face of a slab.



## **Two Part Sub Jamb (50 face )**

Typical detail for frame installation from inside.



## **Sub Jamb Detail**

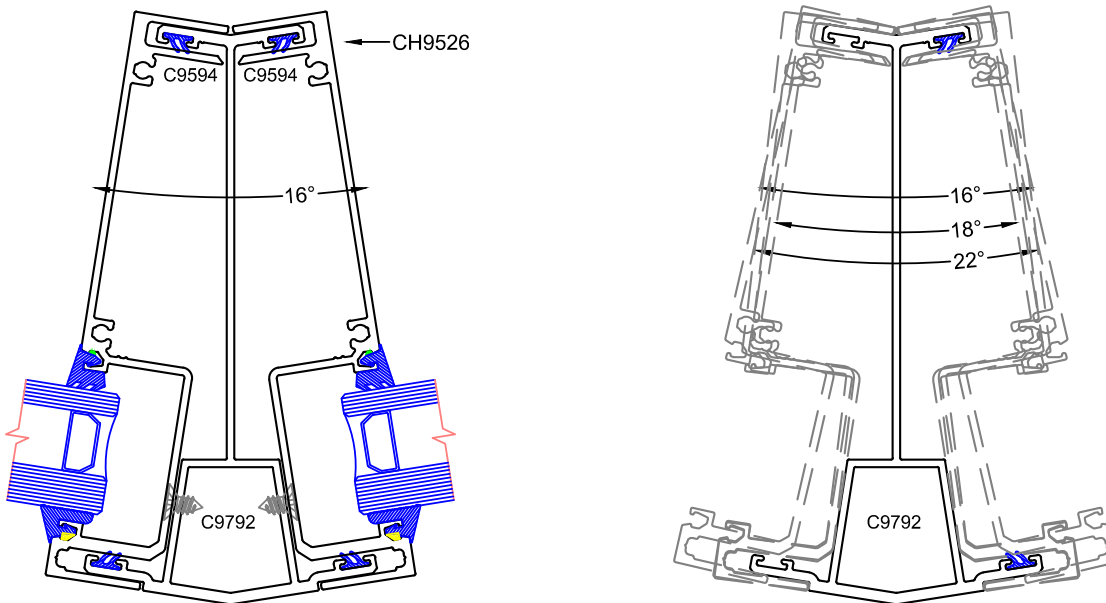
This detail depicts a 2 part sub jamb which is typically used for multi level applications & internal frame installation. The one piece sub head C9311 is usually used with this arrangement.

It is designed to be screw assembled & thus can be shipped to site pre-assembled & lifted to the appropriate level. Alternatively it is easy to factory pre-machine & assemble on site.

The 2 part subhead C9316 is not recommended as an alternative to this detail.

## **Splayed Mullion Coupler**

Allows nom 16-22mm splayed angles

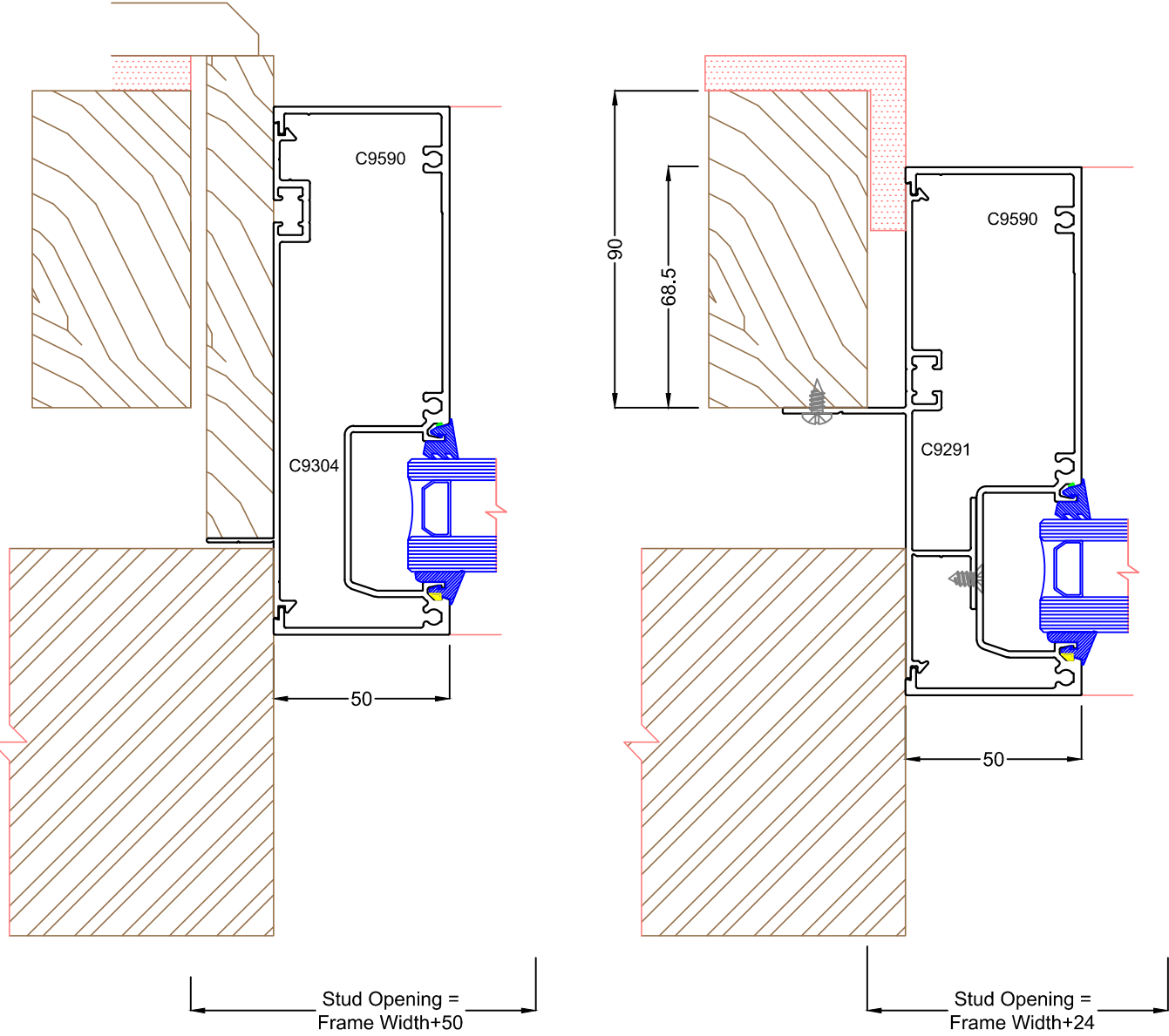


Max™ 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket

Max Framing Systems: M150FDG40 - 15

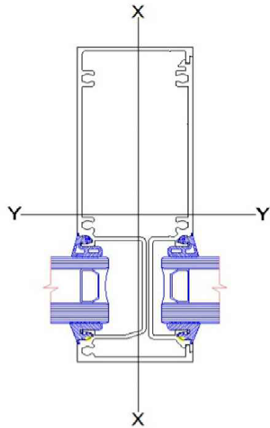
C9304 Reveal adaptor

C9291 Build In adaptor



Mullion Structural Tables

Mullion Combination: Max 150-40 mm Pocket STD C9590, C9593



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 Ultimate.

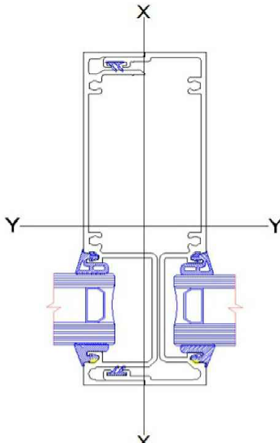
This chart is to be used as a guide only. Where Serviceability exceeds 3kPa or for more information, contact Capral.

Frame Height (mm)		Design Wind Pressure (Pa)							
2200	S	6864	5638	4856	4335	3983	3754	3623	3579
	U	6864	5638	4856	4335	3983	3754	3623	3579
2400	S	5688	4651	3984	3531	3215	2996	2851	2767
	U	5688	4651	3984	3531	3215	2996	2851	2767
2600	S	4559	3728	3191	2826	2568	2386	2258	2173
	U	4789	3903	3328	2934	2654	2453	2311	2215
2800	S	3631	2960	2524	2224	2011	1855	1743	1663
	U	4086	3321	2822	2478	2230	2049	1916	1820
3000	S	2939	2390	2032	1784	1606	1474	1376	1304
	U	3525	2859	2424	2121	1901	1738	1616	1525
3200	S	2413	1959	1661	1454	1304	1192	1108	1044
	U	3071	2487	2104	1836	1640	1494	1383	1298
3400	S	2006	1625	1376	1201	1074	979	906	850
	U	2699	2182	1843	1604	1430	1299	1198	1120
3600	S	1686	1364	1153	1004	896	814	751	702
	U	2389	1930	1627	1414	1258	1139	1048	976
3800	S	1431	1156	976	849	755	685	630	
	U	2129	1718	1447	1255	1115	1008	924	
4000	S	1225	989	833	724	643			
	U	1909	1539	1294	1122	995			
4200	S	1056	852	717	622				
	U	1720	1386	1165	1008				
4400	S	917	739	622					
	U	1558	1254	1053					
4600	S	802	646						
	U	1417	1140						
4800	S	705							
	U	1294							
5000	S	623							
	U	1186							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200



Max<sup>™</sup> 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket  
Max Framing Systems: M150FDG40 - 16  
Mullion Structural Tables

Mullion Combination: Max 150-40 mm Pocket Split C9594, C9595



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

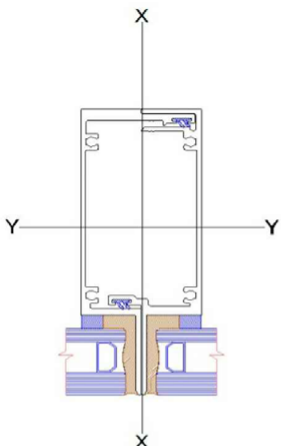
- Note the following:
- Maximum Stress = 110Mpa
  - Serviceability based on Span/250
  - Italics indicate where Serviceability is limited by Ulltimate.

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	9814	8096	7010	6293	5816	5511	5340	5285
	U	10123	8314	7162	6393	5874	5536	5343	5278
2400	S	7494	6151	5292	4714	4315	4043	3865	3764
	U	8367	6842	5860	5193	4729	4408	4194	4070
2600	S	5855	4787	4098	3629	3298	3064	2900	2791
	U	7027	5726	4884	4305	3894	3600	3391	3250
2800	S	4663	3801	3242	2857	2582	2383	2238	2135
	U	5980	4861	4131	3627	3264	2999	2804	2664
3000	S	3775	3069	2610	2291	2062	1893	1768	1675
	U	5148	4175	3539	3097	2776	2538	2360	2227
3200	S	3100	2515	2133	1867	1675	1531	1423	1341
	U	4474	3623	3064	2674	2390	2177	2015	1891
3400	S	2577	2088	1767	1543	1379	1257	1163	1091
	U	3923	3172	2678	2332	2079	1888	1741	1627
3600	S	2165	1752	1480	1290	1151	1045	965	902
	U	3465	2798	2359	2051	1824	1652	1519	1415
3800	S	1837	1485	1253	1090	970	879	809	754
	U	3081	2485	2093	1817	1613	1458	1338	1243
4000	S	1573	1270	1070	929	826	747	686	638
	U	2756	2221	1869	1620	1436	1296	1186	1100
4200	S	1356	1094	921	799	709	640		
	U	2478	1996	1678	1453	1286	1159		
4400	S	1178	950	799	692	613			
	U	2239	1803	1514	1310	1158			
4600	S	1030	830	697	604				
	U	2032	1635	1372	1186				
4800	S	906	729	612					
	U	1852	1489	1249					
5000	S	801	644						
	U	1693	1361						
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Mullion Structural Tables

Mullion Combination: Max 150-40 Pocket Struct C9596, C9597



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	4938	4056	3493	3118	2865	2701	2606	2575
	U	4938	4056	3493	3118	2865	2701	2606	2575
2400	S	3956	3247	2793	2488	2278	2134	2040	1987
	U	4095	3348	2868	2541	2314	2157	2052	1992
2600	S	3090	2527	2163	1915	1741	1617	1531	1473
	U	3450	2811	2397	2113	1912	1767	1665	1596
2800	S	2461	2006	1711	1508	1363	1258	1181	1127
	U	2945	2393	2034	1786	1607	1477	1381	1312
3000	S	1992	1620	1378	1209	1088	999	933	884
	U	2542	2062	1748	1529	1371	1254	1165	1100
3200	S	1636	1328	1126	986	884	808	751	708
	U	2216	1795	1518	1325	1184	1078	998	937
3400	S	1360	1102	933	814	728	663	614	
	U	1949	1576	1330	1158	1033	938	865	
3600	S	1143	925	781	681	607			
	U	1726	1394	1175	1022	909			
3800	S	970	784	661					
	U	1539	1242	1046					
4000	S	830	670						
	U	1380	1113						
4200	S	716							
	U	1245							
4400	S	622							
	U	1128							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Max<sup>™</sup> 150 x 50mm FRONT DOUBLE GLAZED - 40mm Pocket  
Max Framing Systems: M150FDG40 - 17

Glazing Methodology

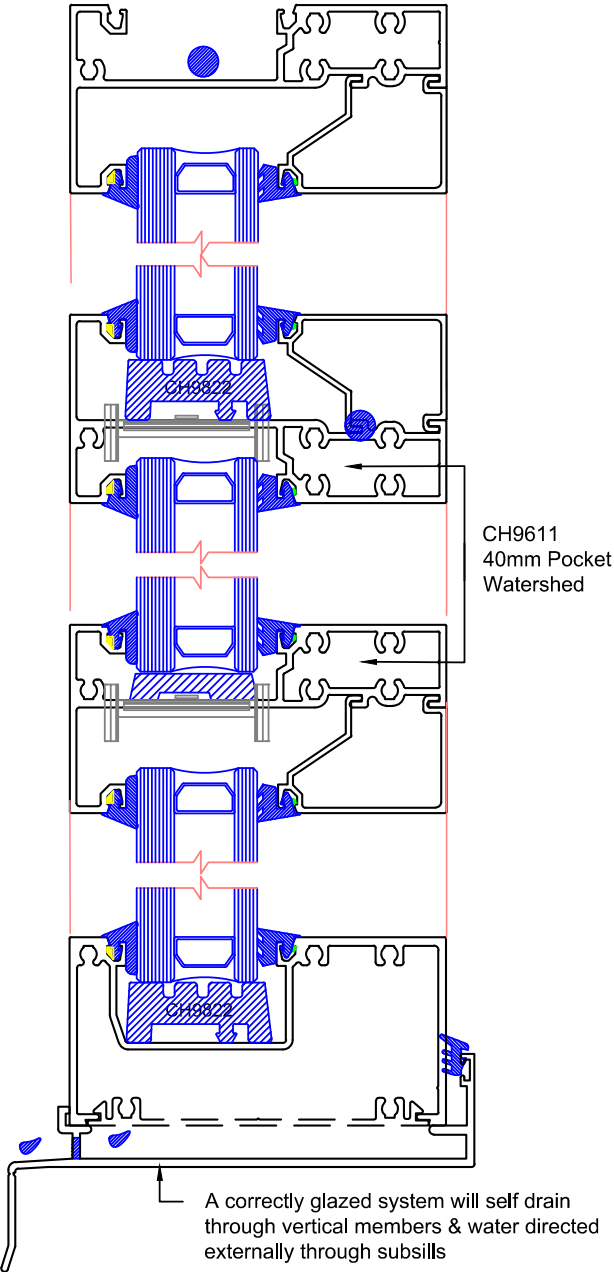
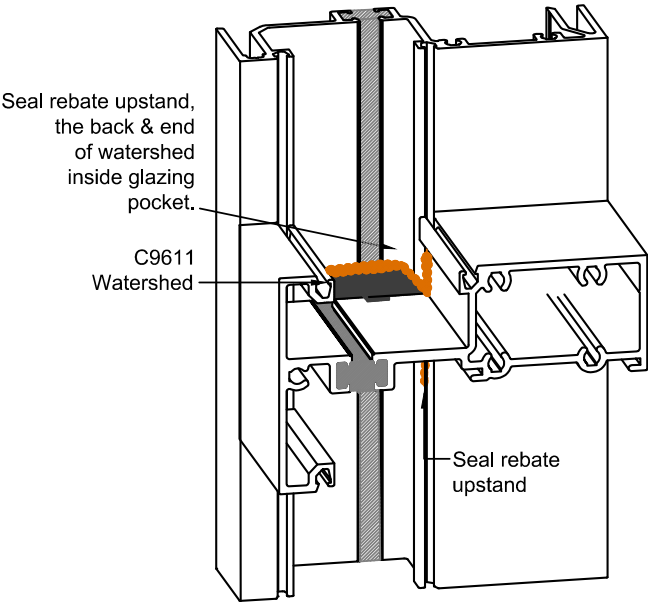
This system has been designed to self drain within the system via a patented watershed component in transoms, traditionally the area most prone to leakage in commercial systems.

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:

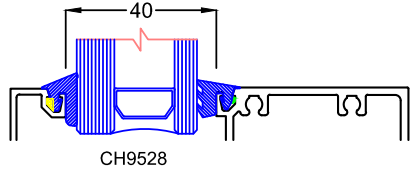
- Clean the glazing rebate & wipe glazing grooves
- Check the watershed devices are in place & overseal where appropriate.
- Place setting blocks at 1/4 points. Setting blocks should be no closer than 150mm from the edge of glass in normal conditions.

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.

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

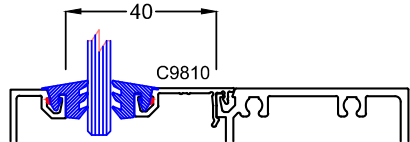


CH9505  
1mm wedge SANT  
Black backing

CH9506  
3mm wedge SANT  
Yellow backing

Spandrel Glazing

Note: C9810 Spandrel adaptor achieves a 19mm pocket



CH9507  
5mm wedge SANT  
Green backing

CH9508  
6mm 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
Max Spandrel Glazing	Glass thickness	Spandrel Adaptor	Rebate wedge	Gap	Glazing wedge	Gap
	6mm	C9810	CH9506	5mm	CH9509	7mm
	8mm	C9810	CH9506	5mm	CH9507	5mm
	10mm	C9810	CH9503	3mm	CH9507	5mm