

Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate
Max Framing Systems: SG150 - 1

MAX™ Structural Glazed 150 Framing



FEATURES:

- 150mm frame depth
- Same frame depth as 150 Front & Offset glaze
- 50mm face dimensions on mullions & transoms
- Reduced head & sill sight lines to maximize the "all glass" appearance
- Accepts 24mm to 28mm IGU's
- Accepts Standard Structural Tape or 3M VHB structural glazing tape
- Dedicated Curtain Wall Stack Joint
- A range of mullion combinations
- Designed for factory glazing & easy site installation
- Optional pocketed jamb for site installation
- Minimal external face, reduces energy loss
- Provides for vertical movement with deep sub head
- Can be installed from inside or outside the building
- Structural glazed multi locking Sash option
- Concealed motorised winder box option

FABRICATION:

- Square cut manufacture
- Simple panelized assembly

PRODUCT APPLICATIONS:

Factory & office facades structurally glazed

LIMITATIONS:

- External glazed only
- Factory Glazed - not recommended for site glazing

TESTING:

- Tested to AS2047 & AS4284 (curtain wall)
- Sash tested to AS2047 & AS4284

NOTE:

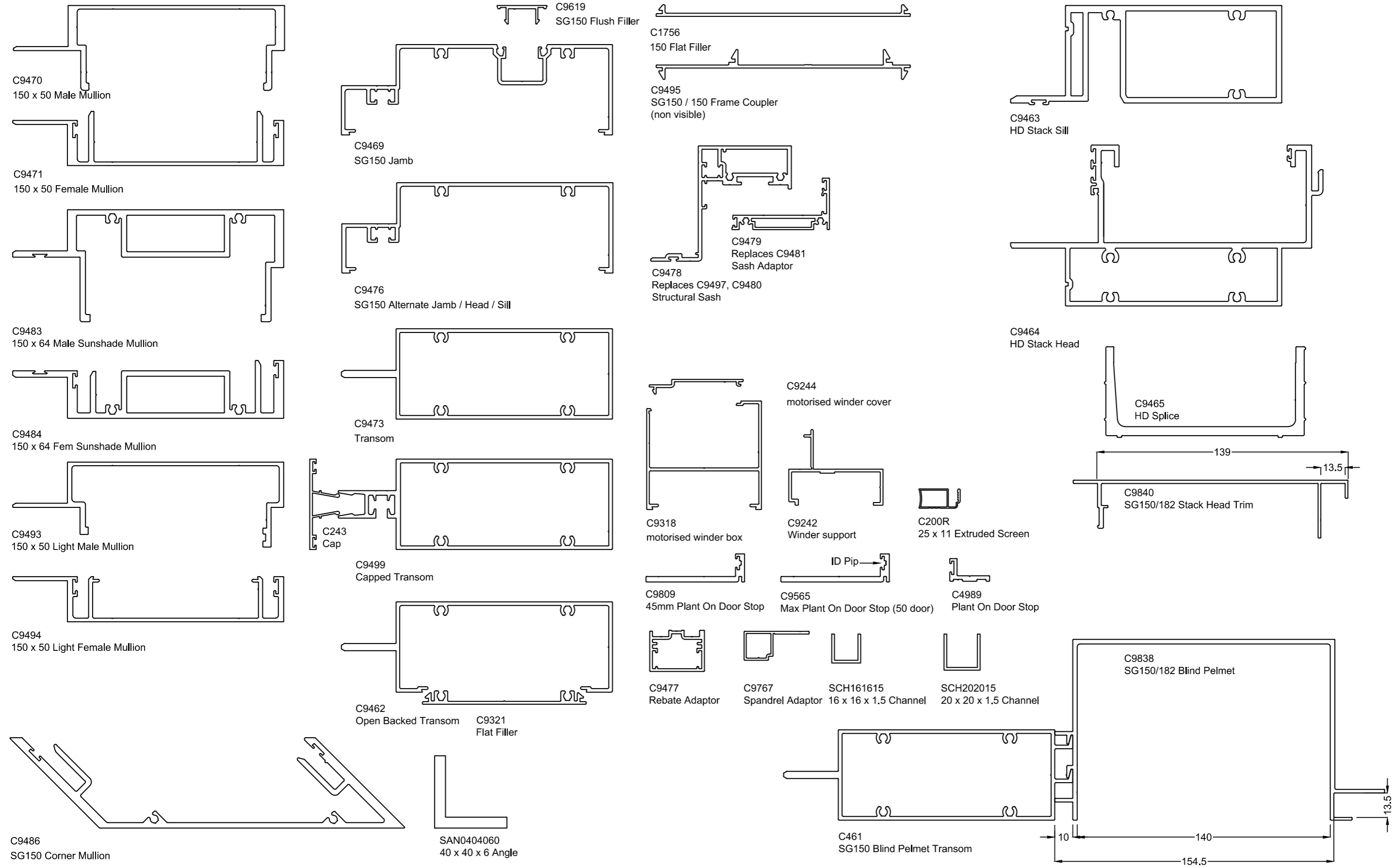
- The use of 4 sided structural glazing requires great attention to detail in the glazing of frames. Ideally frames are factory glazed in a clean, controlled atmosphere & dust free environment
- Glazing methodology, glass cover & silicone bite should be referred to tape & silicone suppliers for suitability to the application



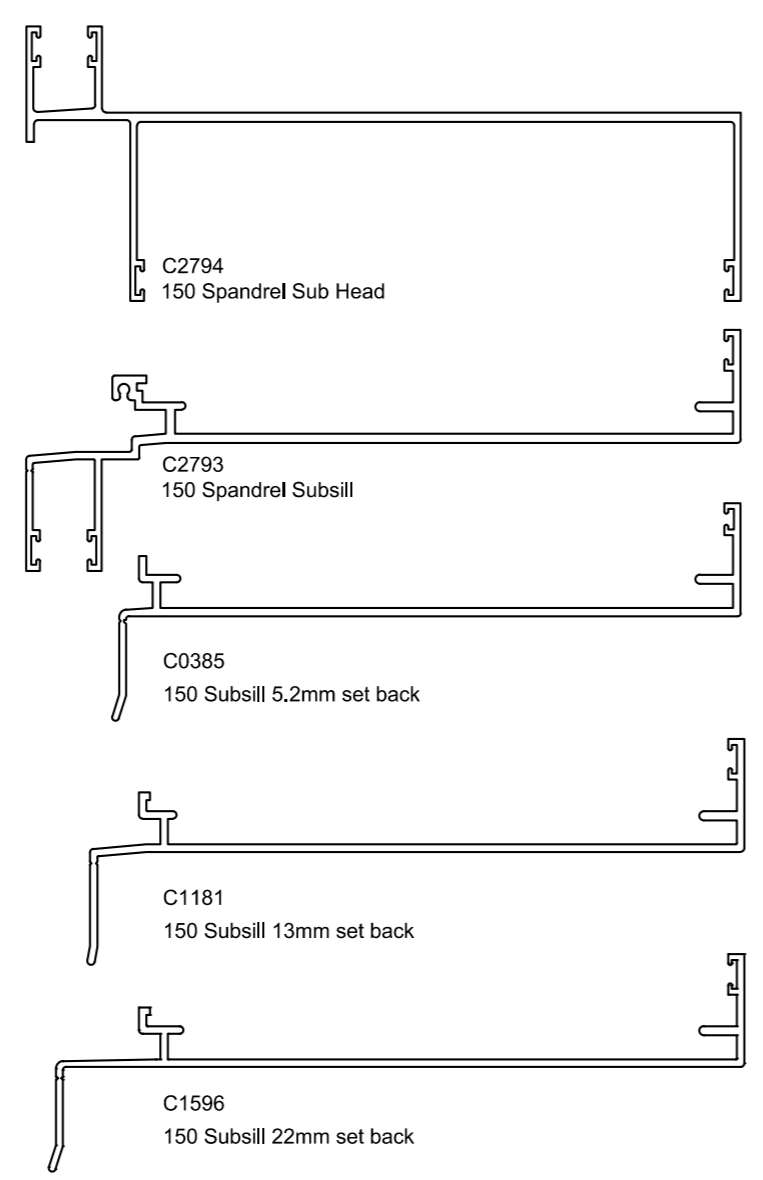
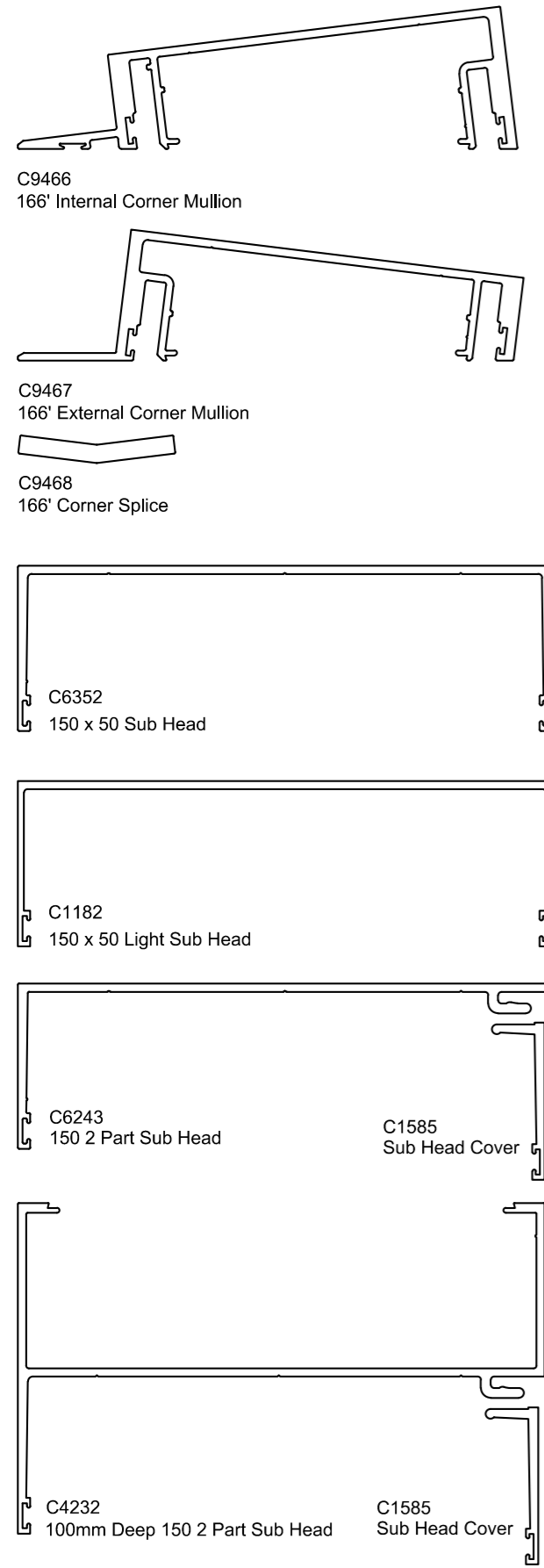
University of Melbourne, School of Design
MAX™ 150mm Structural Double Glazed frames
with sunshade mullions, louvres and operable sashes

Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

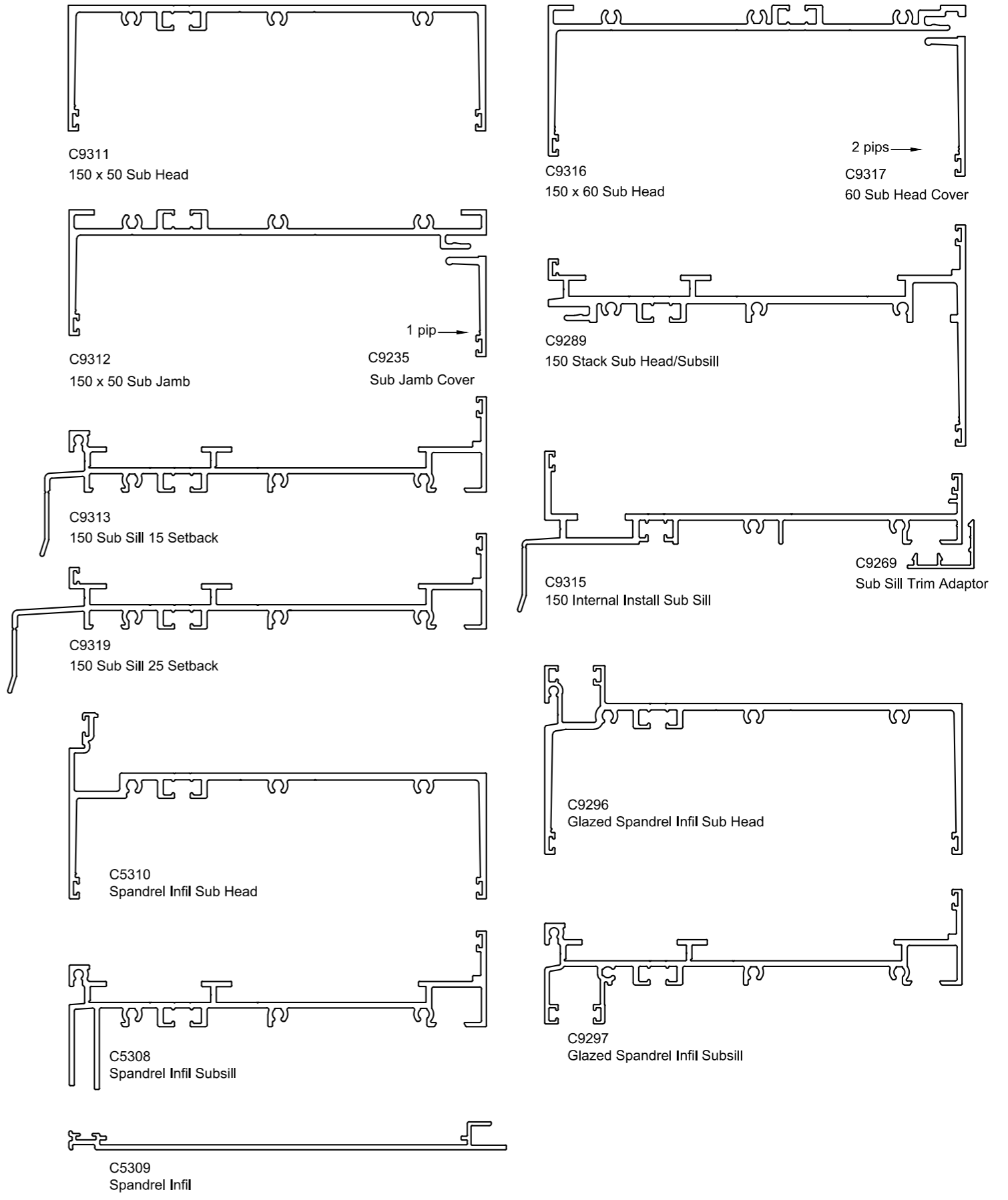
**Max Framing Systems: SG150 - 2
Extrusion ID**



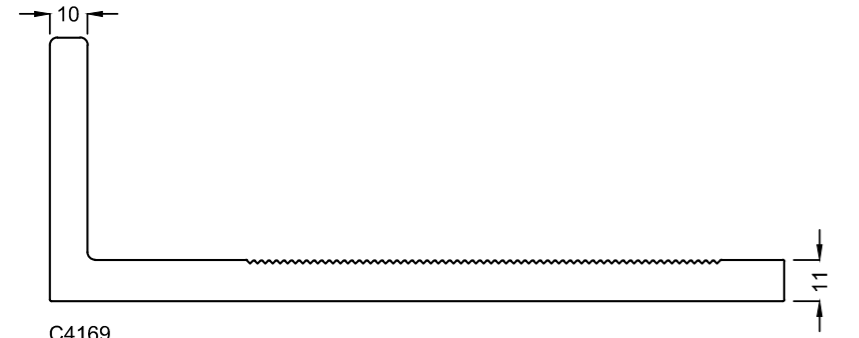
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate
Max Framing Systems: SG150 - 3
Extrusion ID



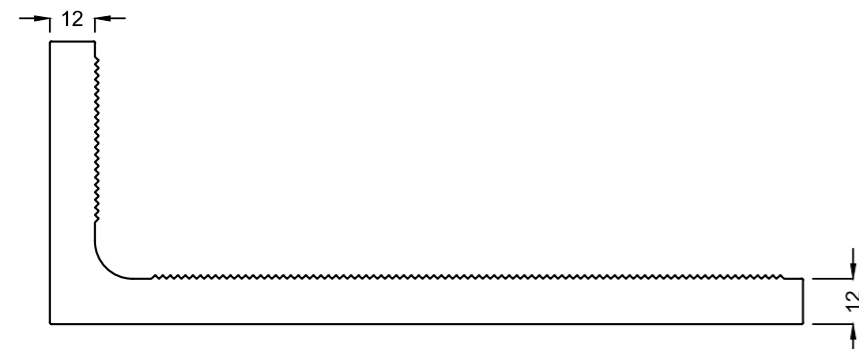
Max Sub Frame Extrusion ID



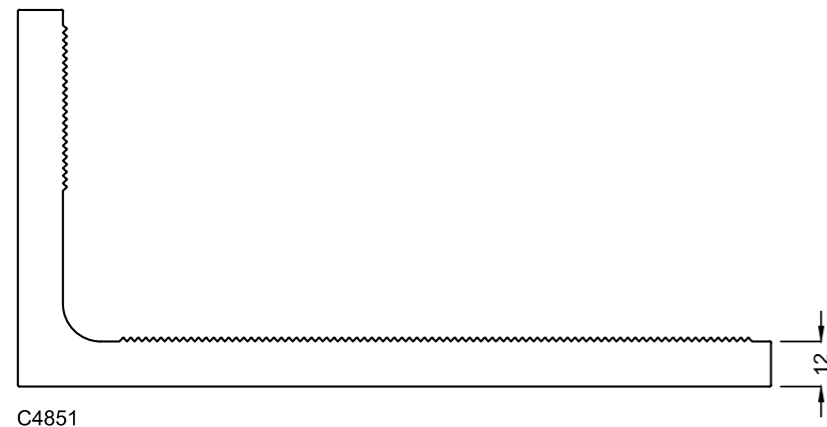
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate
Max Framing Systems: SG150 - 4
Fixing Brackets



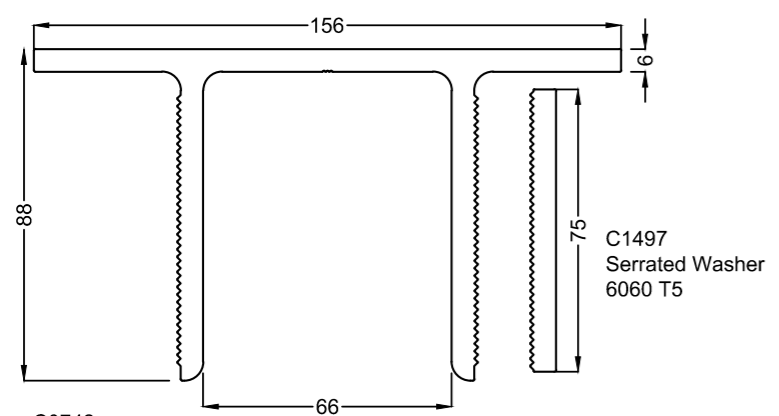
C4169
195 x 70 x 11 Fixing Bracket
6061 T6



C4235
200 x 75 x 12 Fixing Bracket
6061 T6

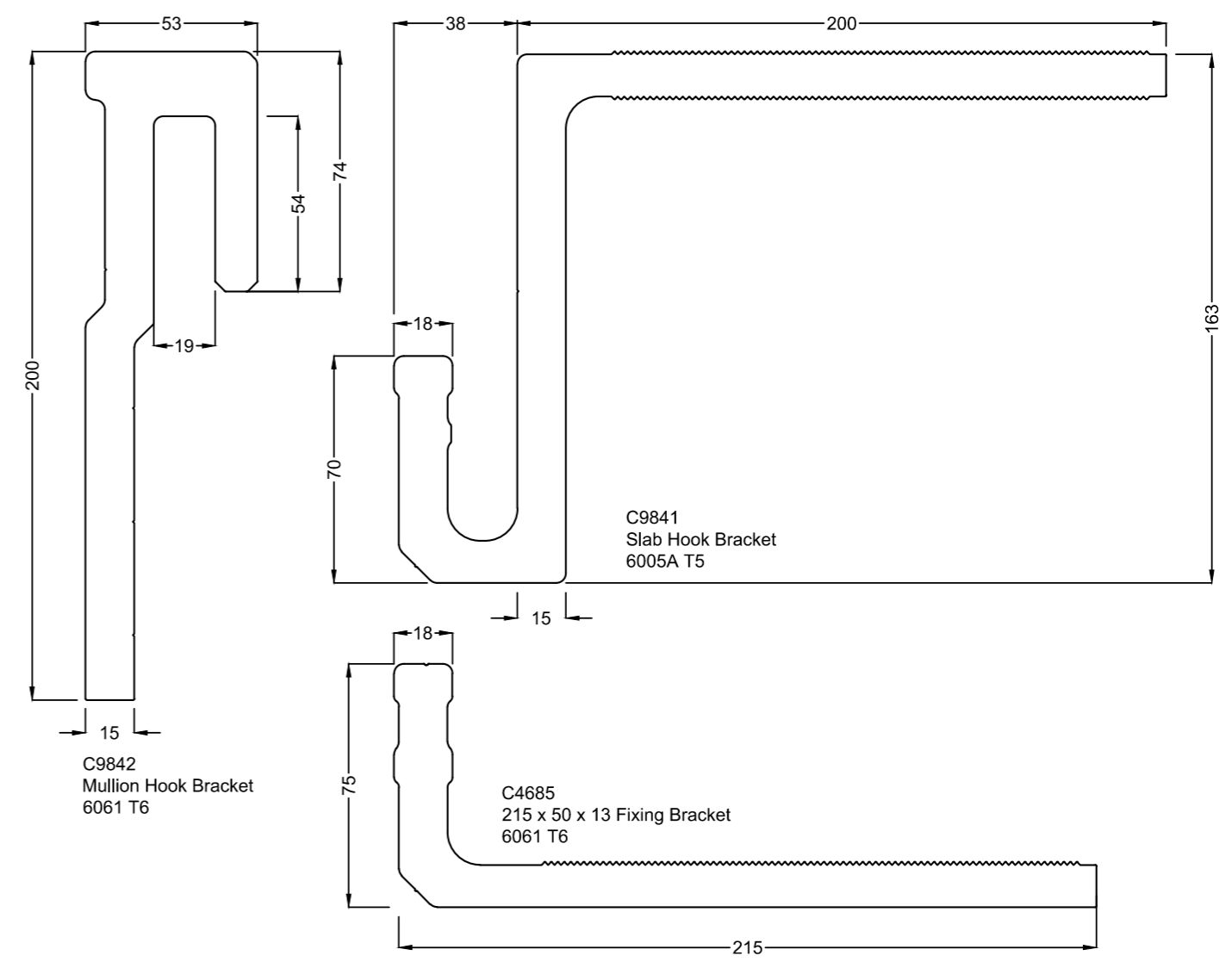


C4851
200 x 100 x 12 Fixing Bracket
6061 T6



C1497
Serrated Washer
6060 T5

C0742
156 x 88 Fixing Bracket
6005A T5



C9842
Mullion Hook Bracket
6061 T6

C9841
Slab Hook Bracket
6005A T5

C4685
215 x 50 x 13 Fixing Bracket
6061 T6

Component ID

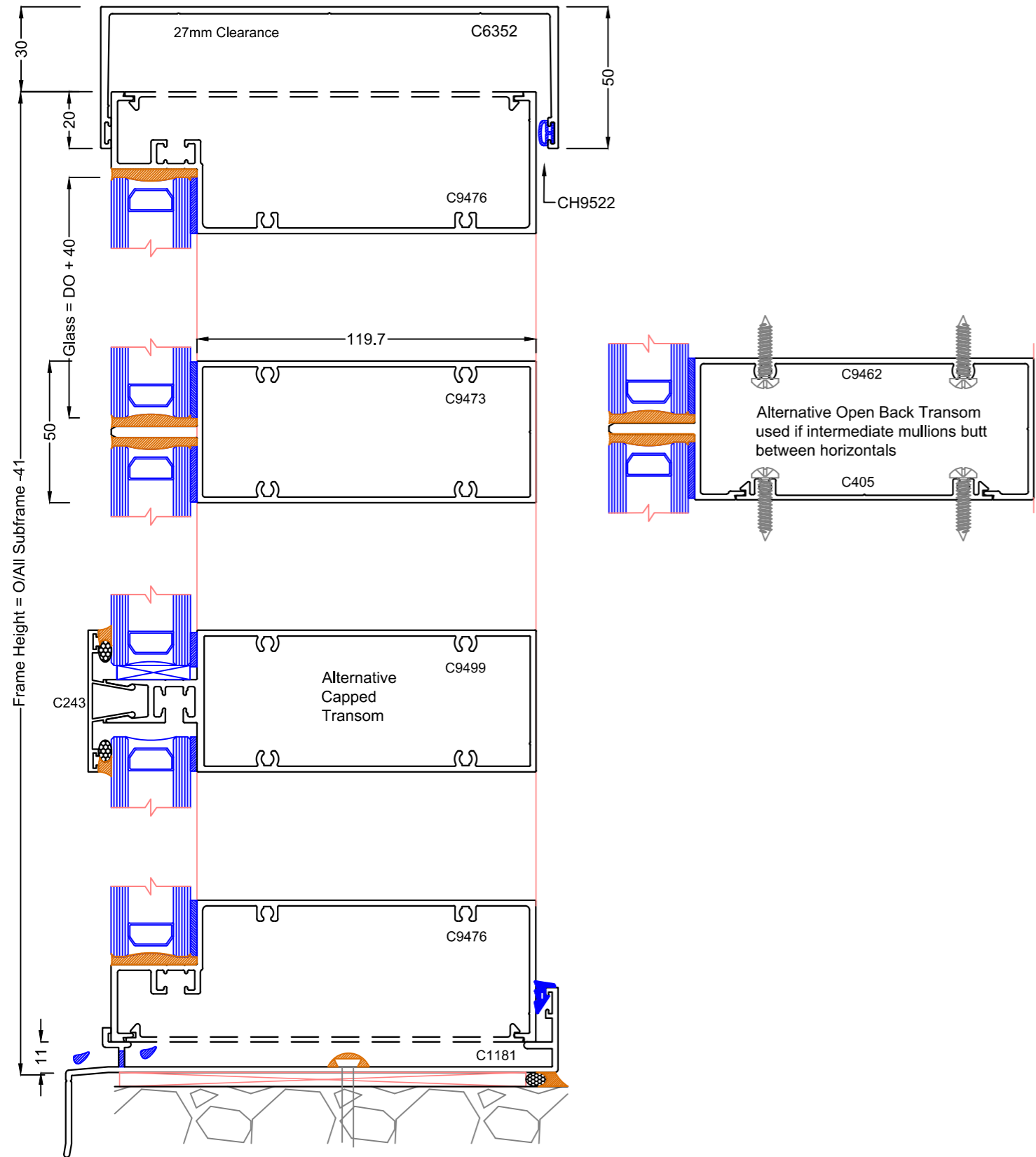
CHSE150 150 Subsill Stop end (non handed)	CH9571 Max 150 Subsill Stop end (non handed)	CH9520 U-Max Sub frame Gasket	CH9565 U-Max Sub frame Bulb Seal
CH8101337 Cornerstake 33.7mm suit C9478, C9832 Sashes	CH9815 Corner Chevron 13.9mm Suit C9832 Sash	CH9659 Co-ex Mullion Expansion Bulb	CH9627 Co-ex Sunshade Mullion Bulb Seal
		CH13NEW Sash Bulb Seal	CH9566 Stack Joint Drain Flap

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Max Framing Systems: SG150 - 5

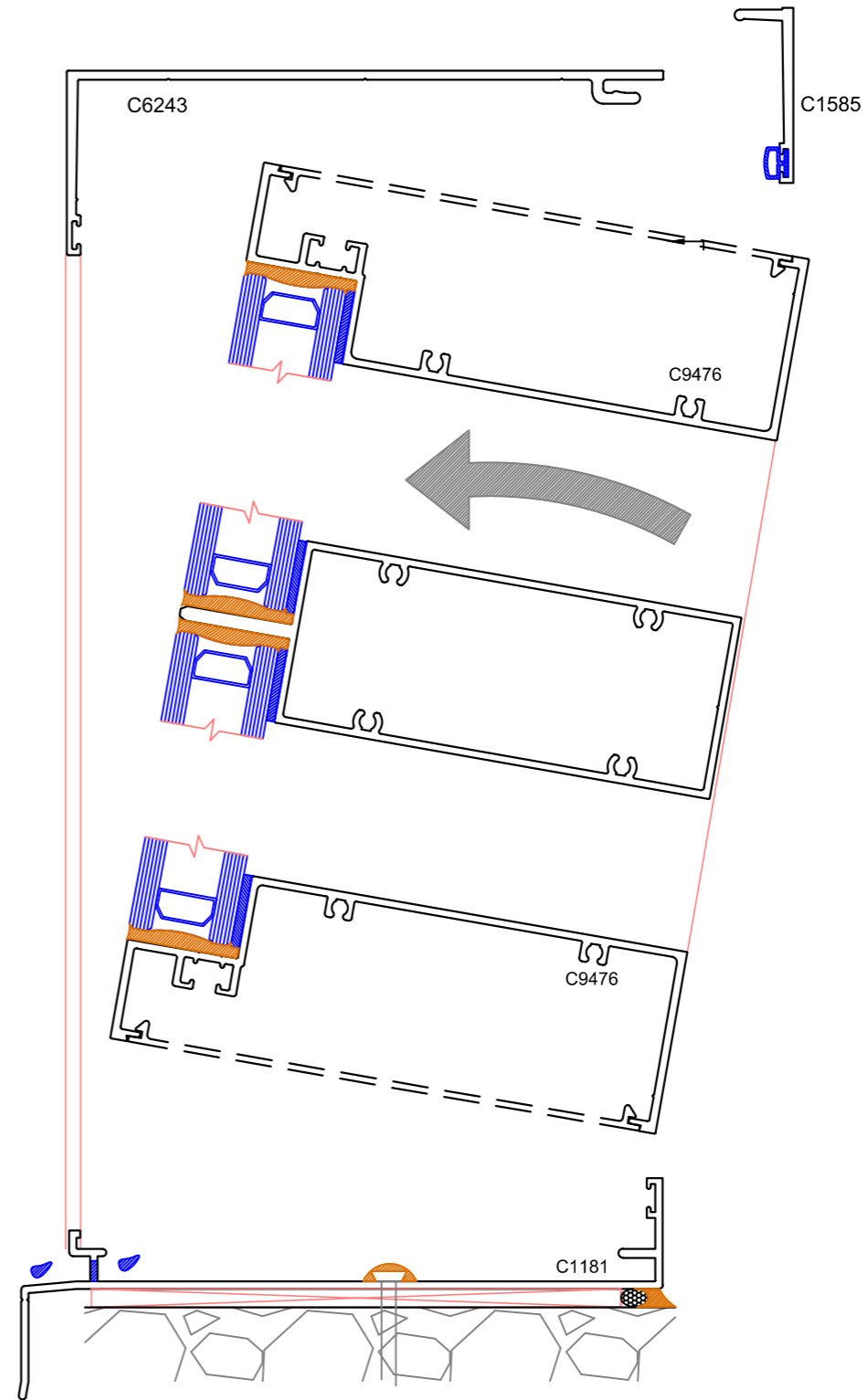
Head & Sill Detail, Internal Sub Head cover

Detail showing standard sub head & sub sill details based on pre-glazed panels, installed from inside or outside.
Note if sub jambs are used, install from inside only & recommend 2 part sub head to allow easier access to install pre-glazed panels.



Head & Sill Detail, Internal Sub Head cover

Detail showing a pre-glazed frame being installed from inside. The frame is located into the subsill & lifted to vertical, where the internal sub head cover is fitted to captivate the frame.

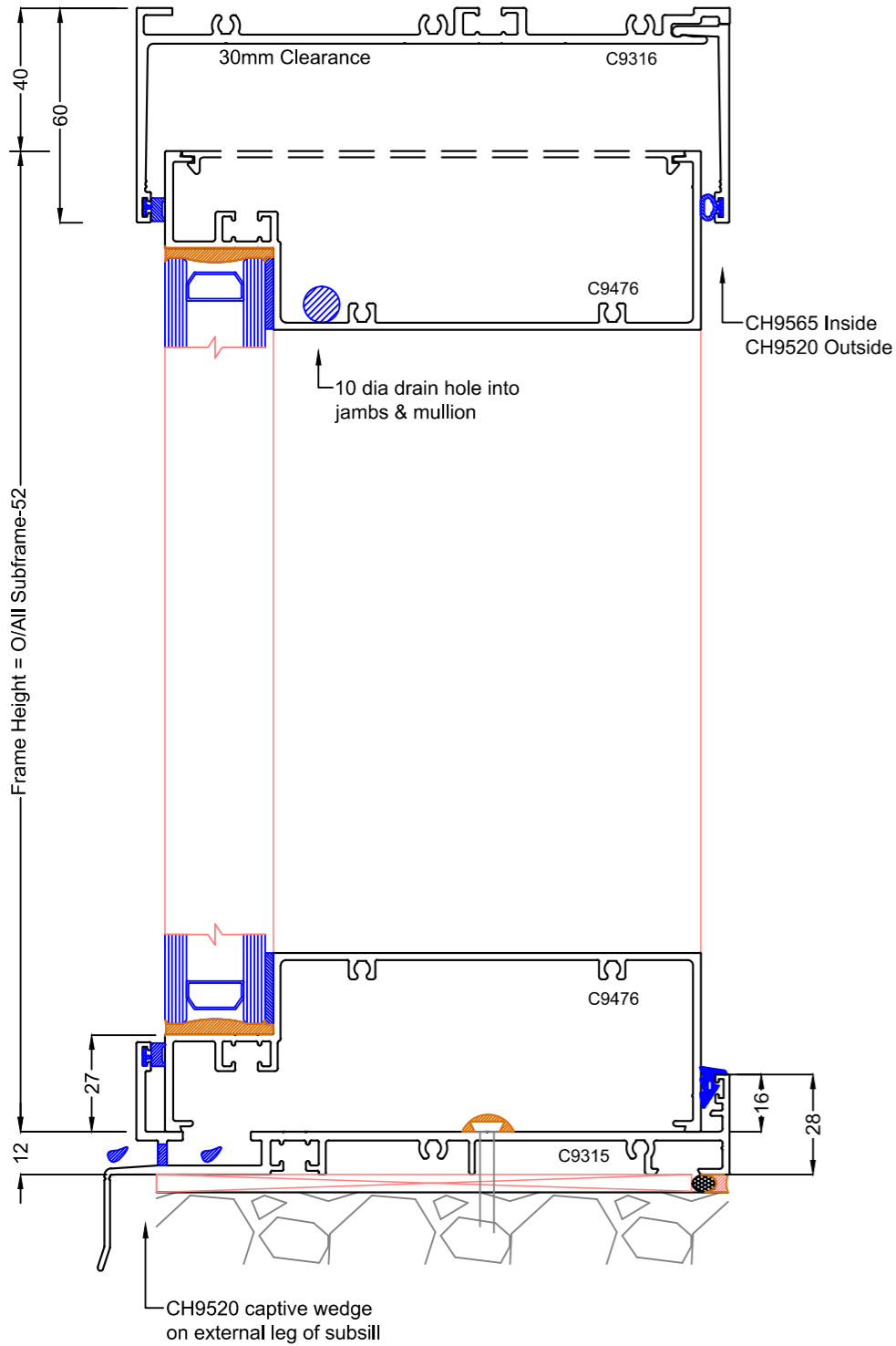


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

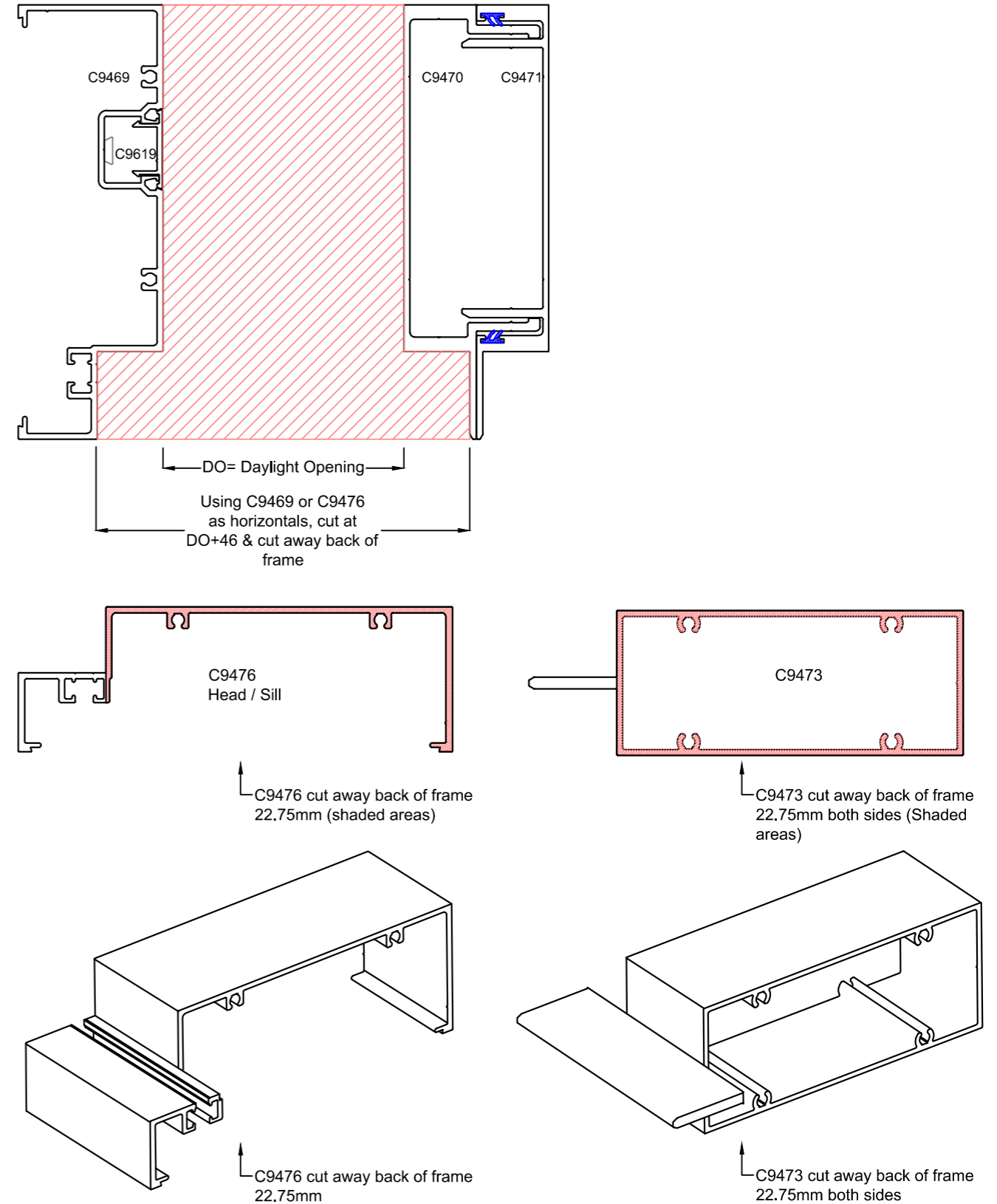
Max Framing Systems: SG150 - 6

Alternative Sub Head & Sub Sill Detail

Depicting the Max 150mm Sub framing with 2 part sub head & internal install subsill. The Max sub frame is stronger, screw assemble for easier assembly in factory or on site & the subsill provides a little more clearance for installation from inside.



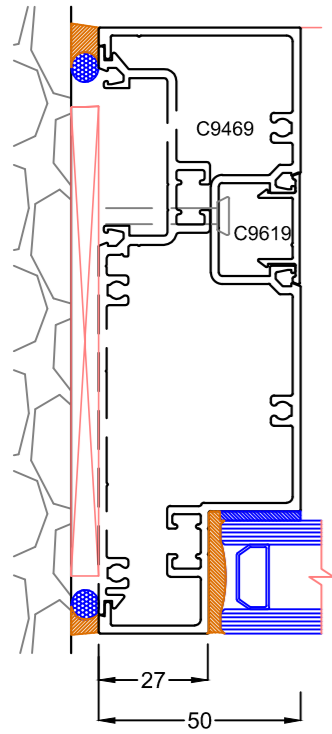
Machining Details



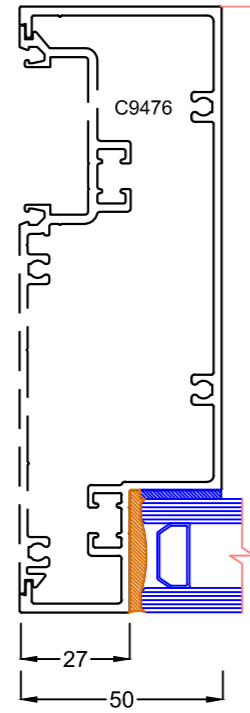
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 7

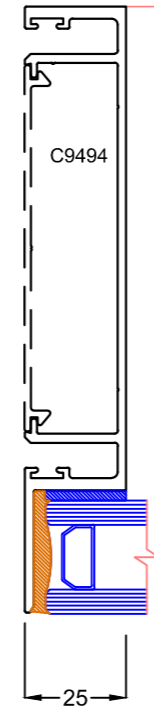
Pocketed Jamb



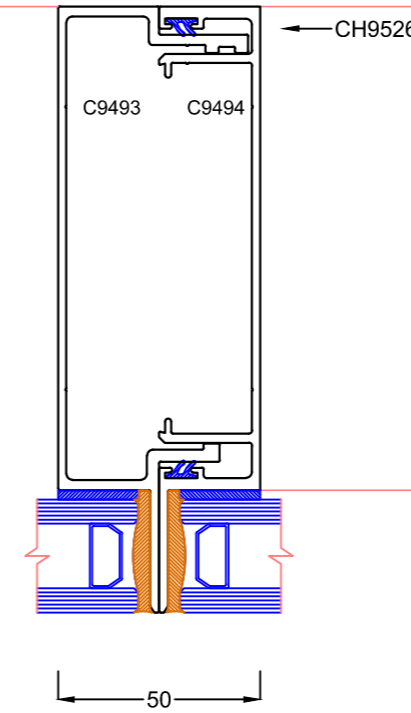
Plain Jamb



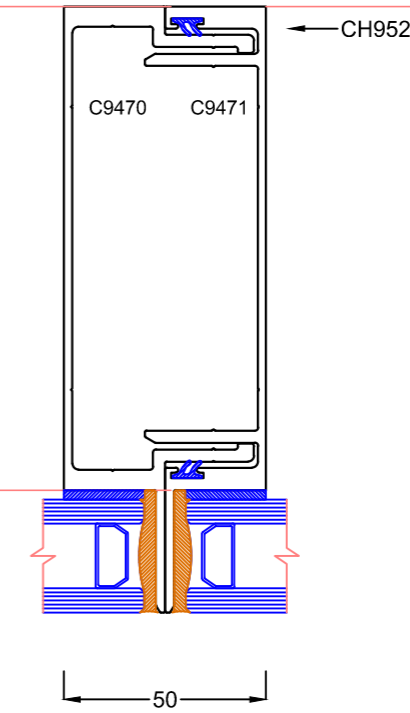
Light Female Mullion as Jamb



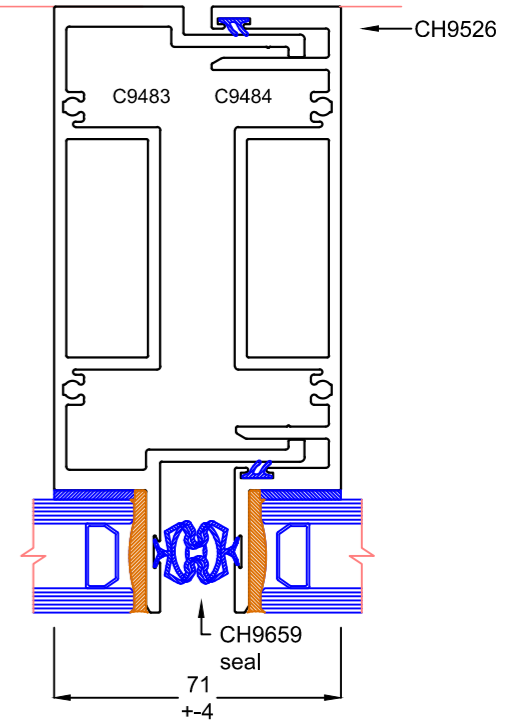
Light Split Structural Mullion



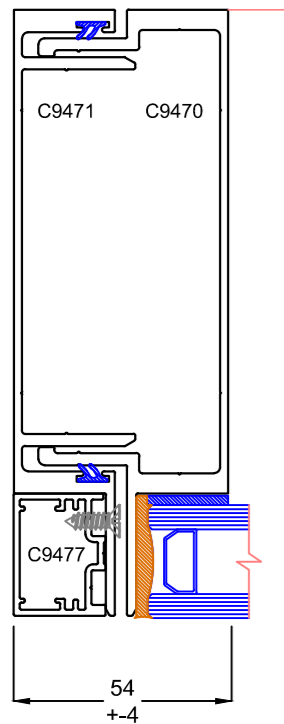
HD Split Structural Mullion



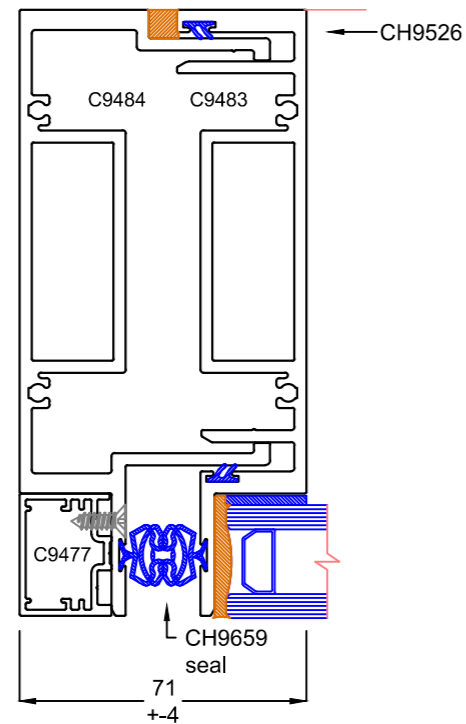
Heavy Duty or Shadescreen Mullion



Split Mullion as Jamb



Shade screen Mullion as Jamb



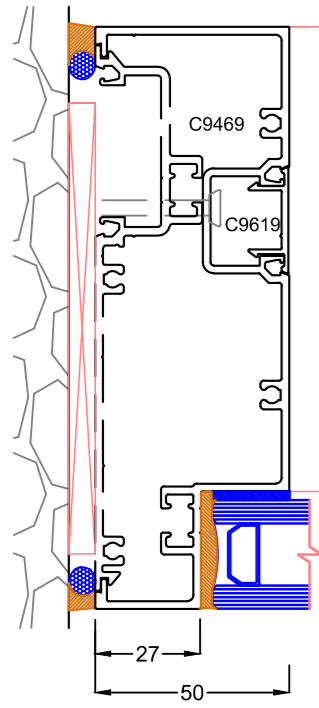
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 8

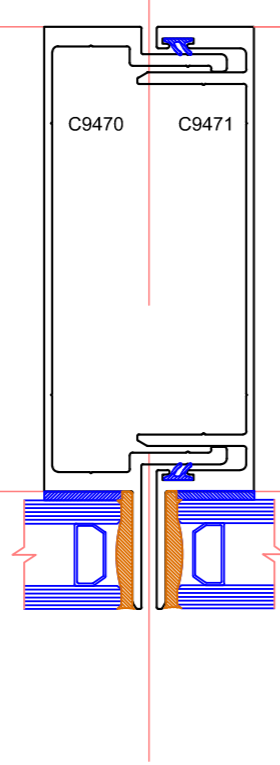
Pocketed Jamb & Standard Split Mullion

When used as a framing system, the pocketed jamb allows secret fixing of pre-glazed panels. The filler is fitted after securely fixing the frame into position.

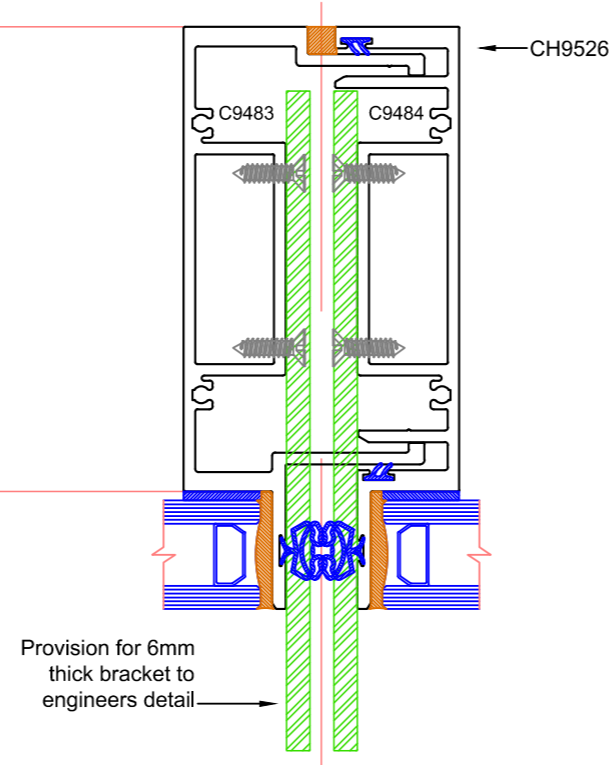
Pocketed Jamb



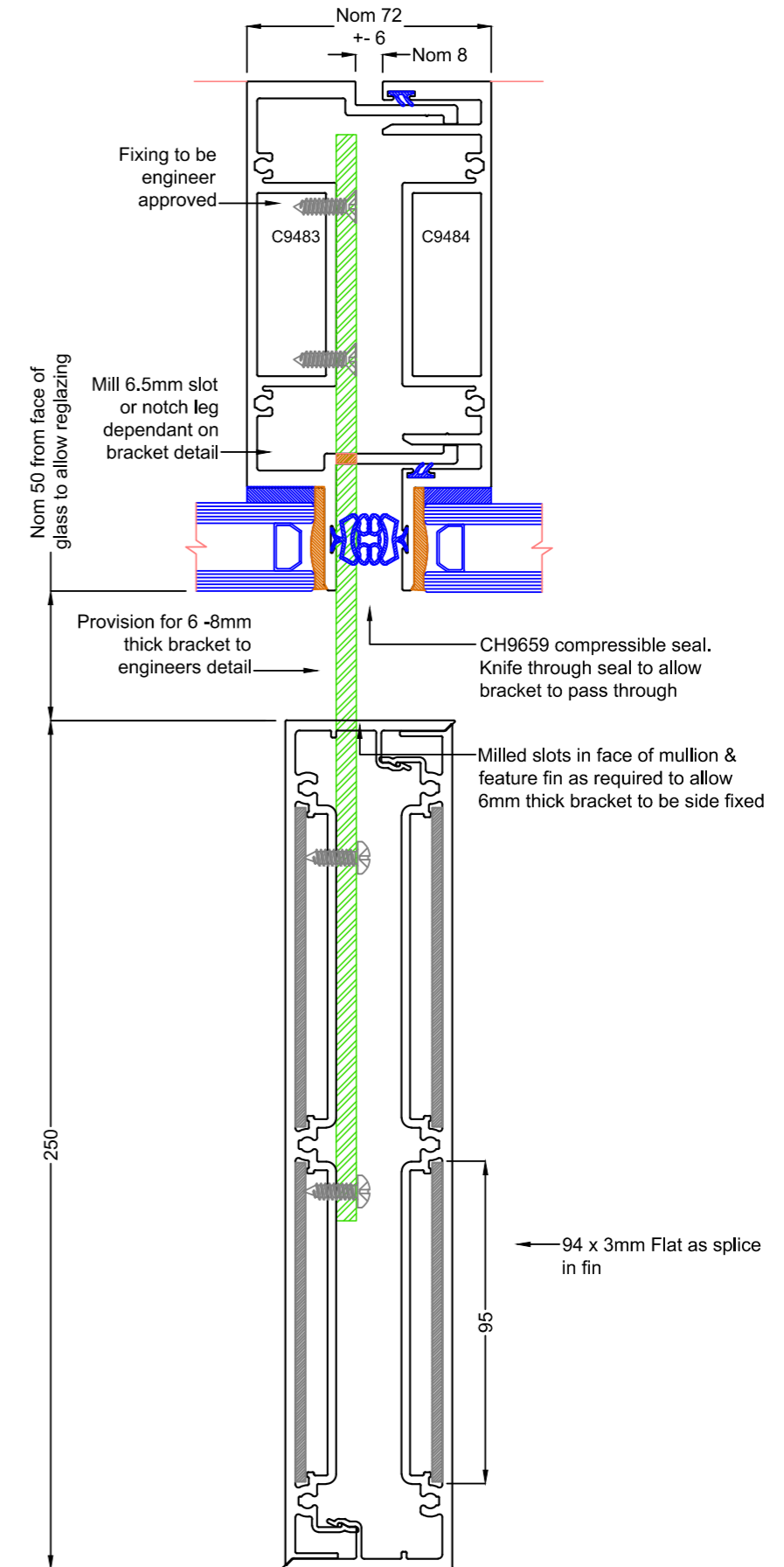
Standard Split Mullion



Heavy Duty or Shadescreen Mullion



Single Bracket suits Vertical Fin



Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

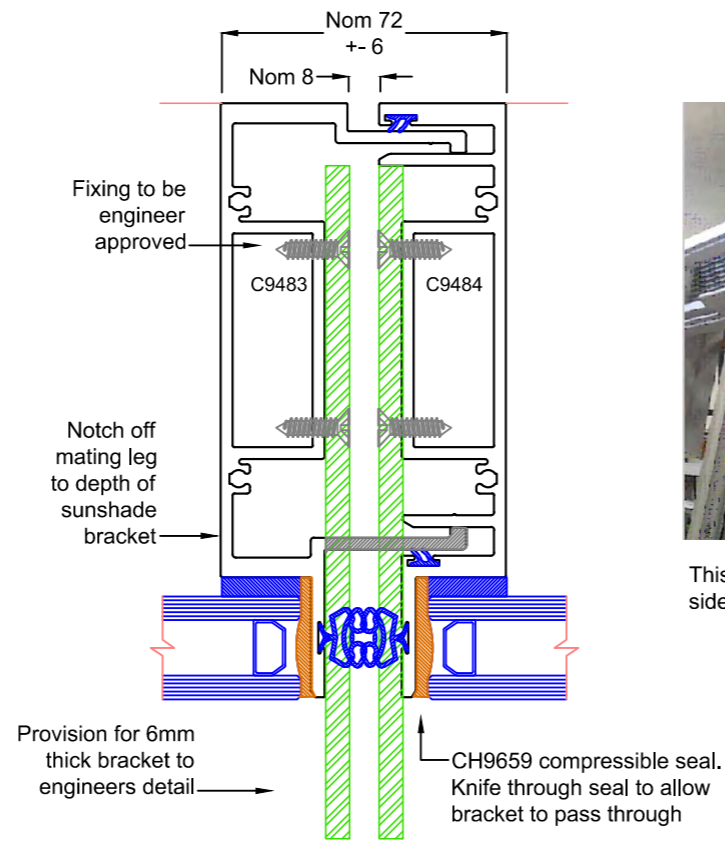
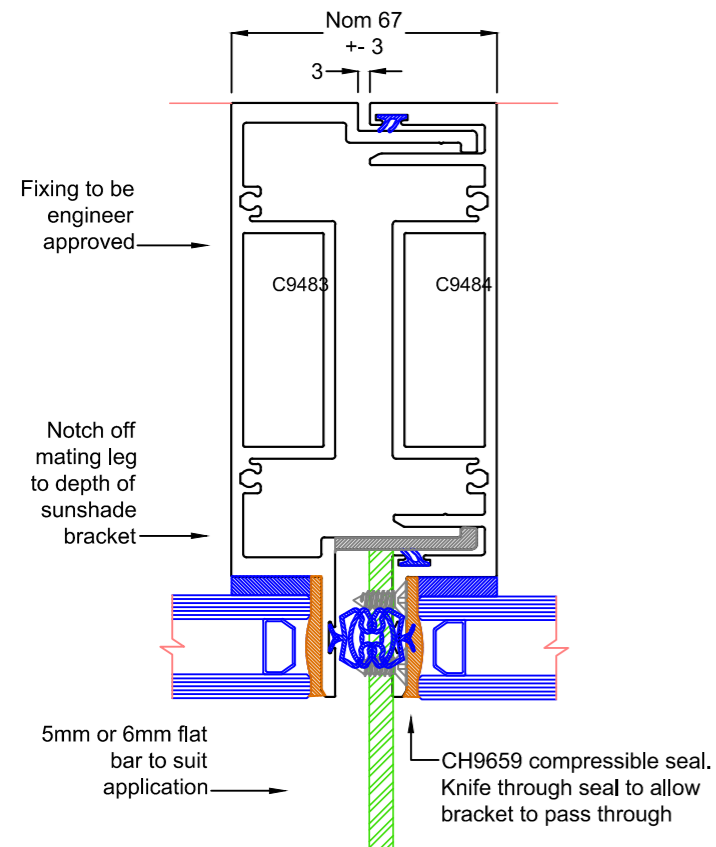
Max Framing Systems: SG150 - 9

Feature Fin Detail

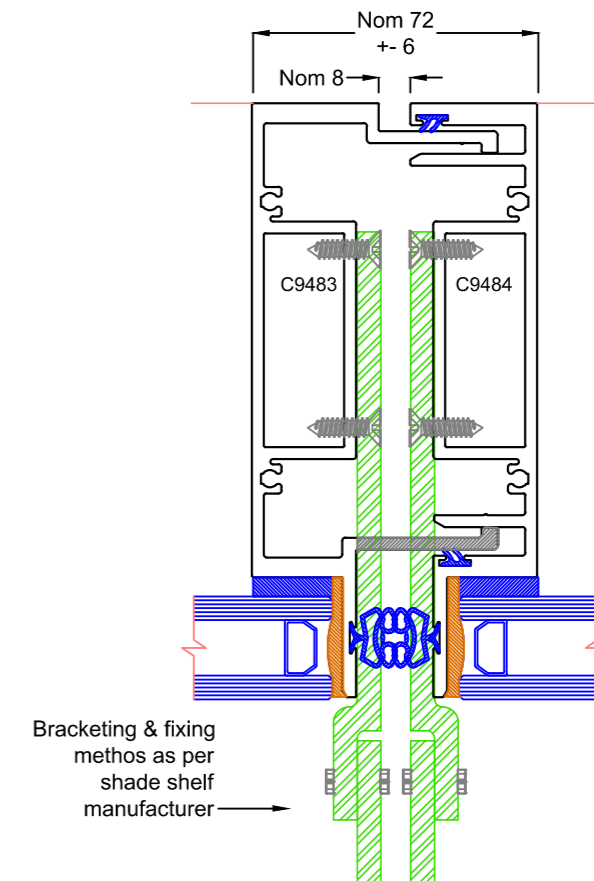
The following detail depicts a custom feature fin which can be incorporated into the SG150 system.

Sunshade Mullion Detail

The detail below illustrates a method of bracketing through the mullion to affix a horizontal sunshade. In applications where this is applicable, bracket strength & fixing method needs to be verified by a structural engineer



This detail shows the bracket side fixed to the side of a mullion



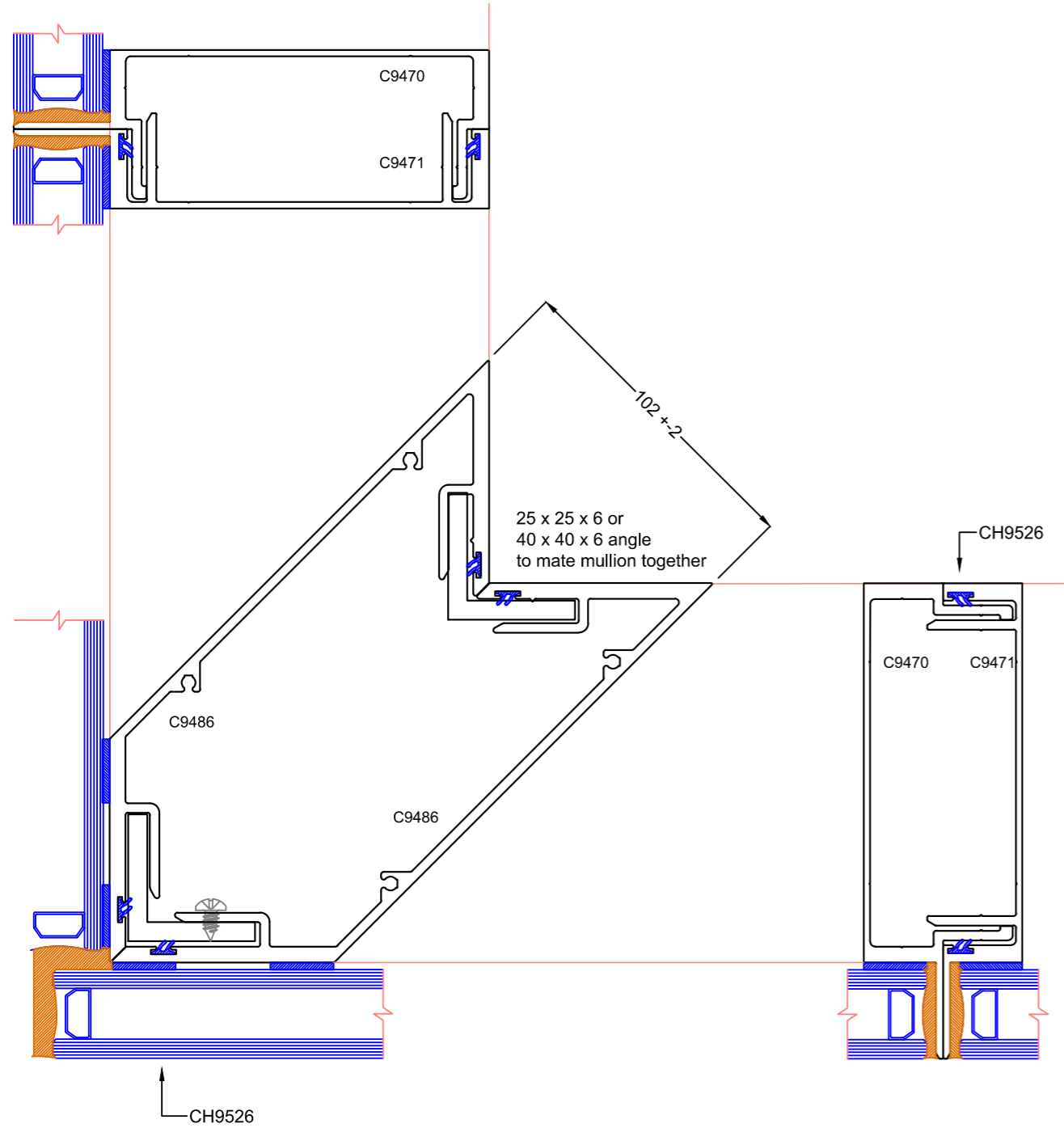
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Max Framing Systems: SG150 - 10

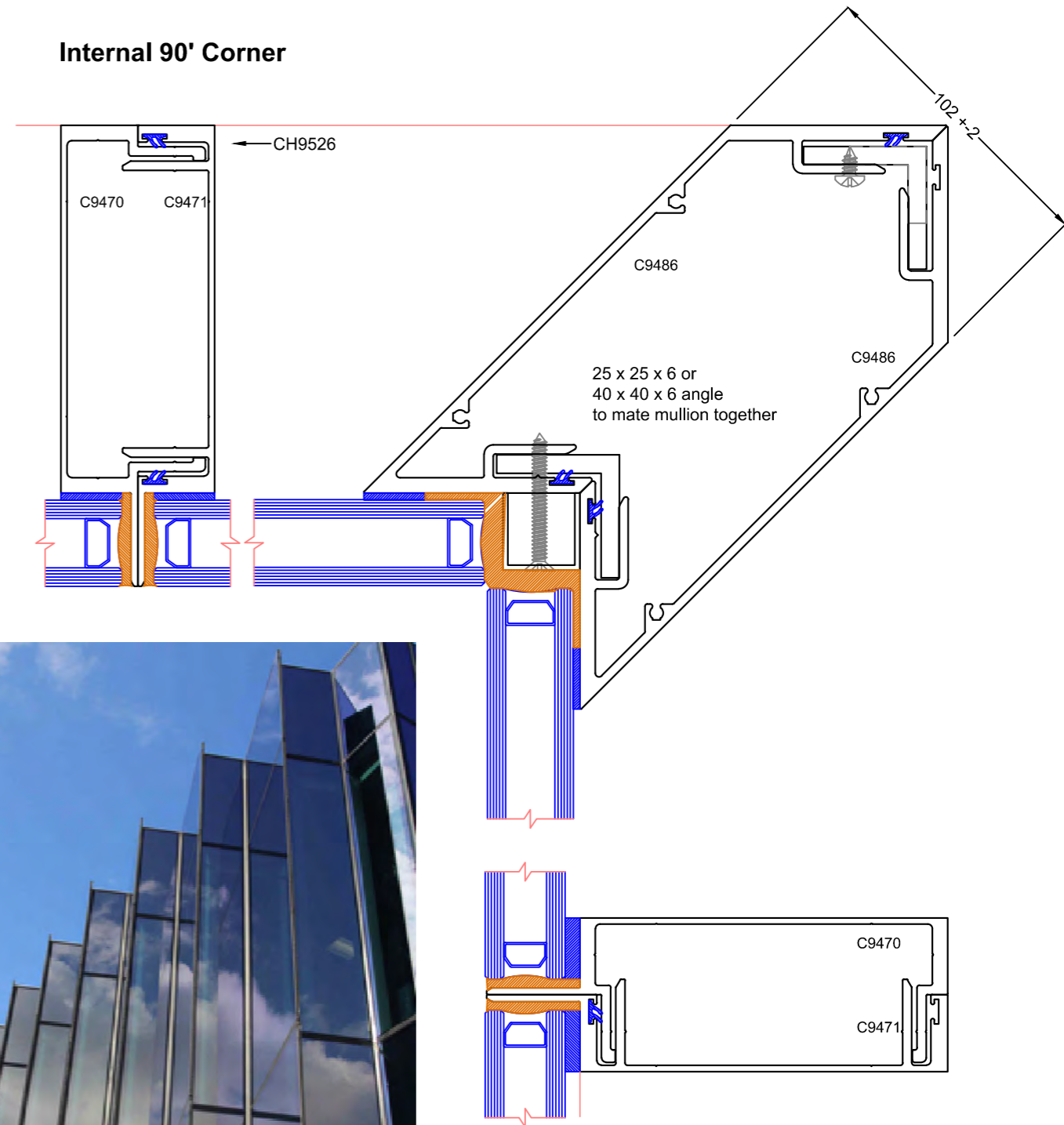
Structural Corner Mullion Detail

Corner Mullion is self mating & can be used for Internal or External corner mullion assemblies

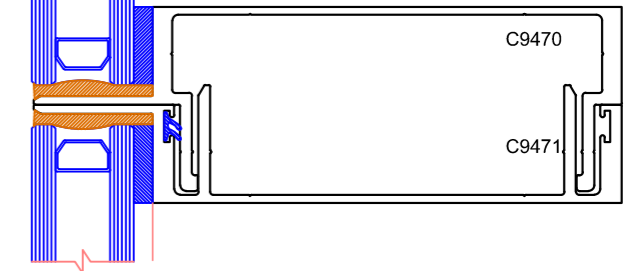
External 90° Corner



Internal 90° Corner



Springvale Cemetery, Clarence Reardon building.
Internal & External corner mullions creating a zig zag effect

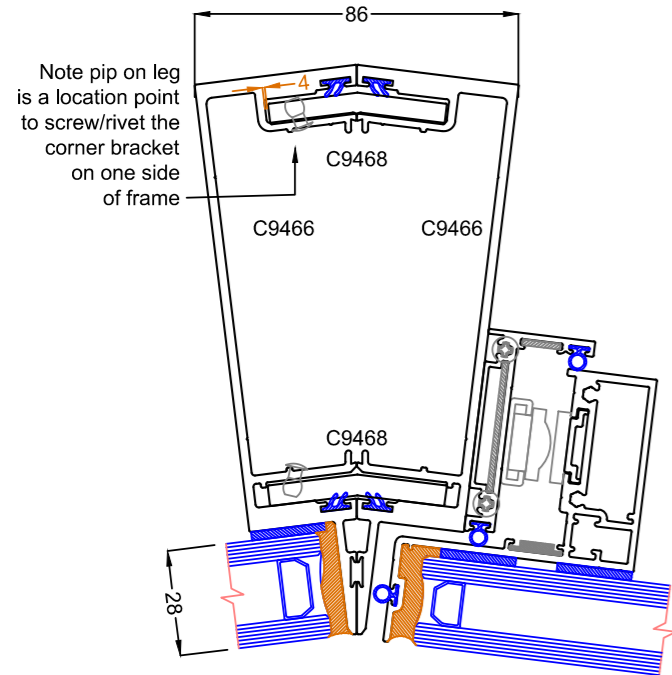


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Max Framing Systems: SG150 - 11

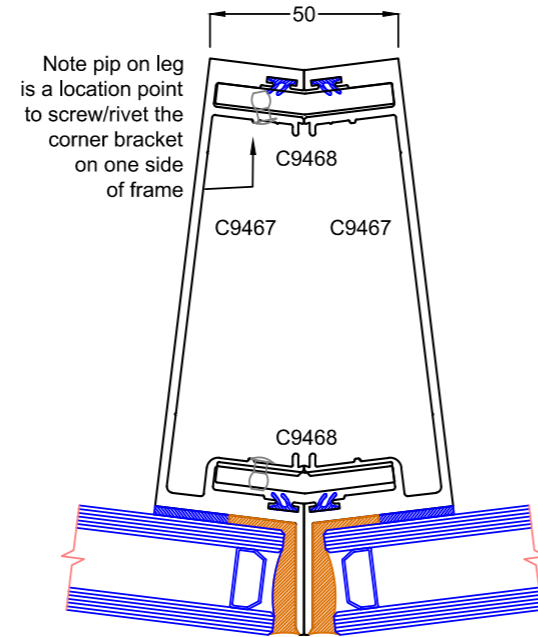
C9466 166' Structural Internal mullion

Self mates with C9468 splice & can accept fixed glazing or Sashes on an internal corner



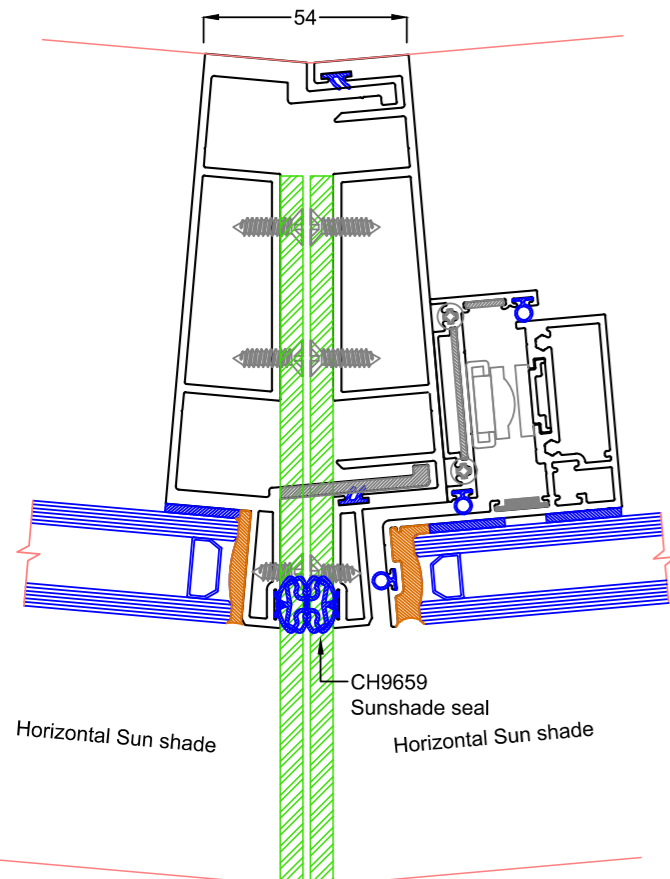
C9467 166' Structural External mullion

Self mates with C9468 splice & can accept fixed glazing only. Sashes are unsuitable on an external corner with this assembly



Concept 170' External corner mullion

Horizontal Sun shelf fixes to nom 6mm thick sunshade brackets which protrude through mullions.



Curtain Wall with stack joints & faceted mullions

SG150 curtain wall with 166' internal & external mullions. The spandrel area features a blind transom & light box behind to conceal the slab edge.

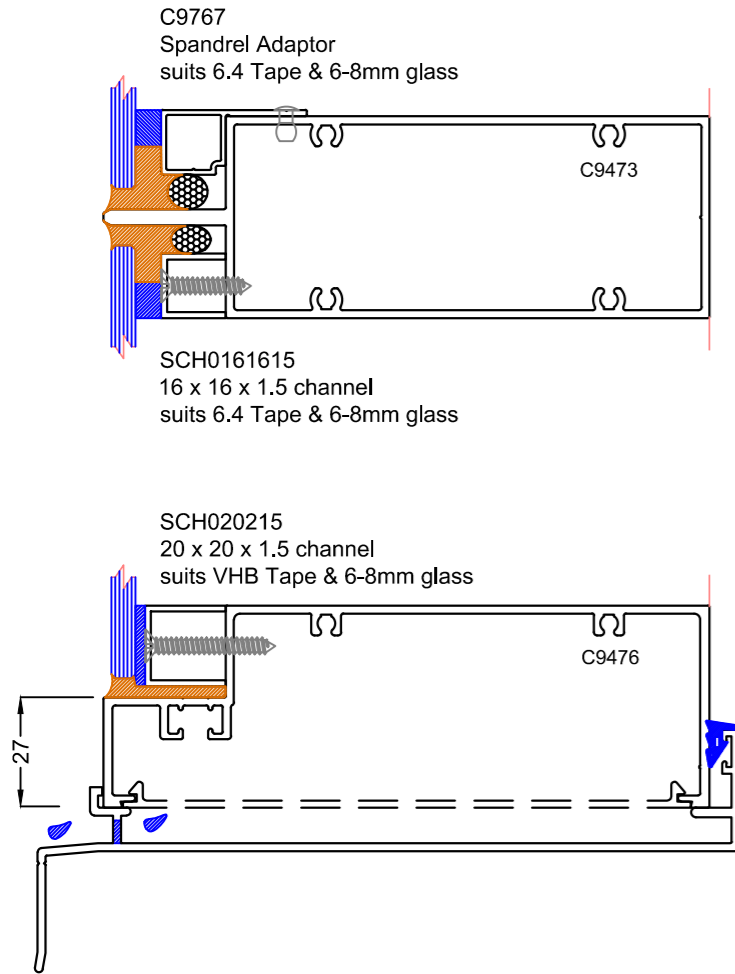


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Max Framing Systems: SG150 - 12

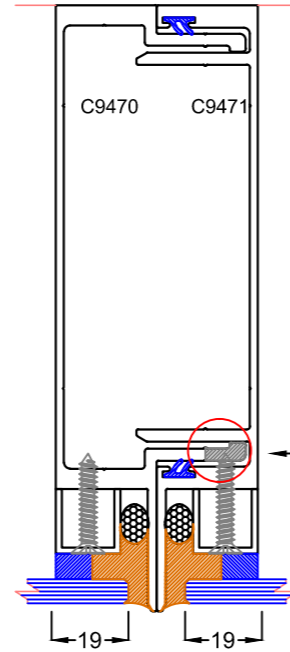
Spandrel Details

Details can vary depending on glazing method (tape thickness) & whether the spandrel area is visible from inside or concealed.

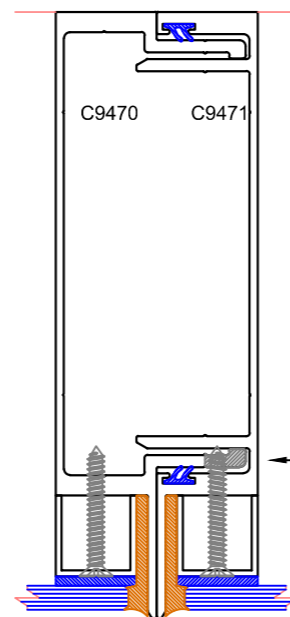


16mm Plant on Channel

Suited to 6mm glass & 6.4mm backing tape

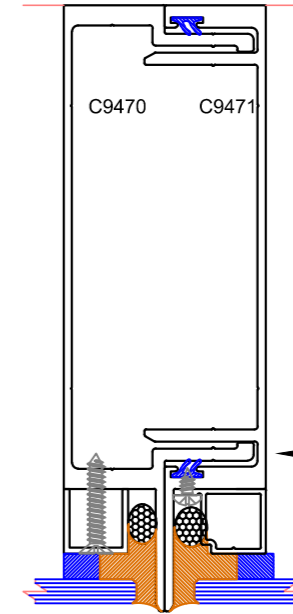
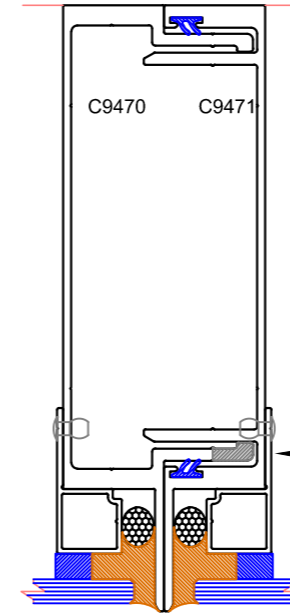


20mm Plant on Channel
Suited to 6mm glass & VHB Tape



C9767 Spandrel Adaptor

Suited to 6mm glass & 6.4mm backing tape



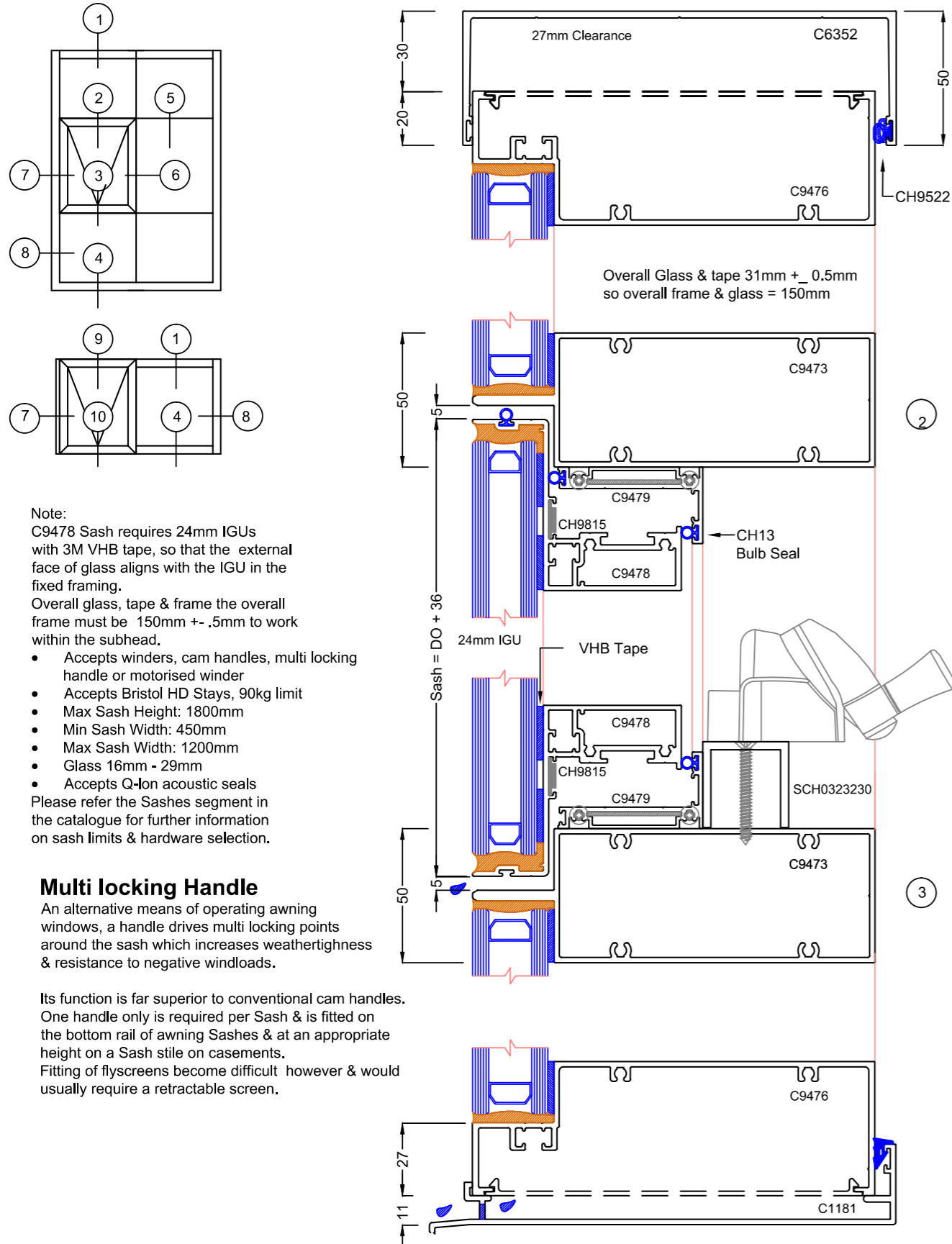
C9767 can be oriented several ways & is can be used in conjunction with SCH0161615 channel

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Max Framing Systems: SG150 - 13

Structural Glazed Sash C9478

The structural glazed Sash is designed to work the SG150 suite & suits 24mm IGUs with VHB Tape.



Note:
C9478 Sash requires 24mm IGUs with 3M VHB tape, so that the external face of glass aligns with the IGU in the fixed framing.

Overall glass, tape & frame the overall frame must be 150mm +/- .5mm to work within the subhead.

- Accepts winders, cam handles, multi locking handle or motorised winder
- Accepts Bristol HD Stays, 90kg limit
- Max Sash Height: 1800mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass 16mm - 29mm
- Accepts Q-Ion acoustic seals

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

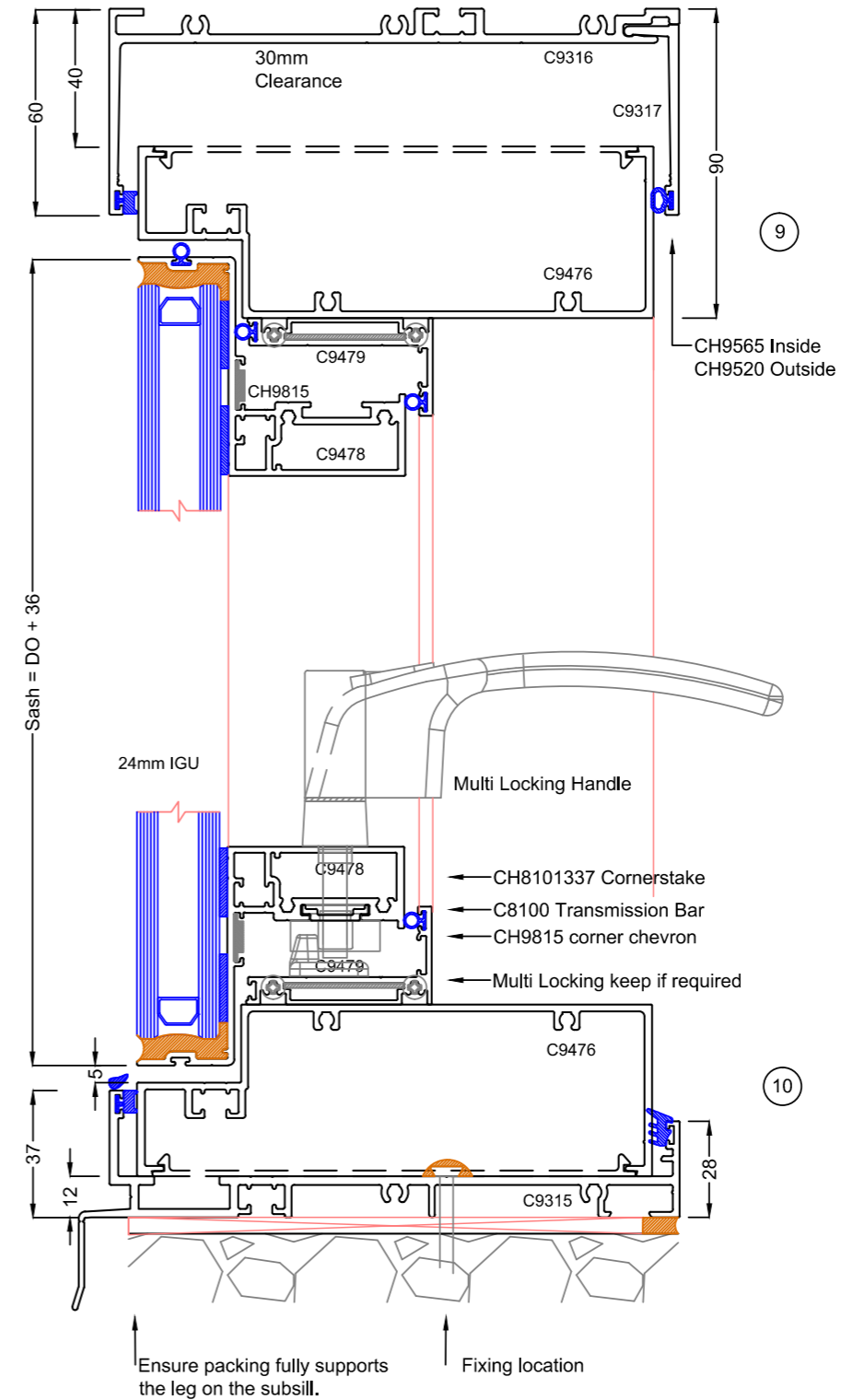
Multi locking Handle

An alternative means of operating awning windows, a handle drives multi locking points around the sash which increases weathertightness & resistance to negative 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 however & would usually require a retractable screen.

Structural Glazed Sash C9478

Note the Sash requires 24mm IGUs with 3M VHB tape, so that the external face of glass aligns with the IGU in the fixed framing.

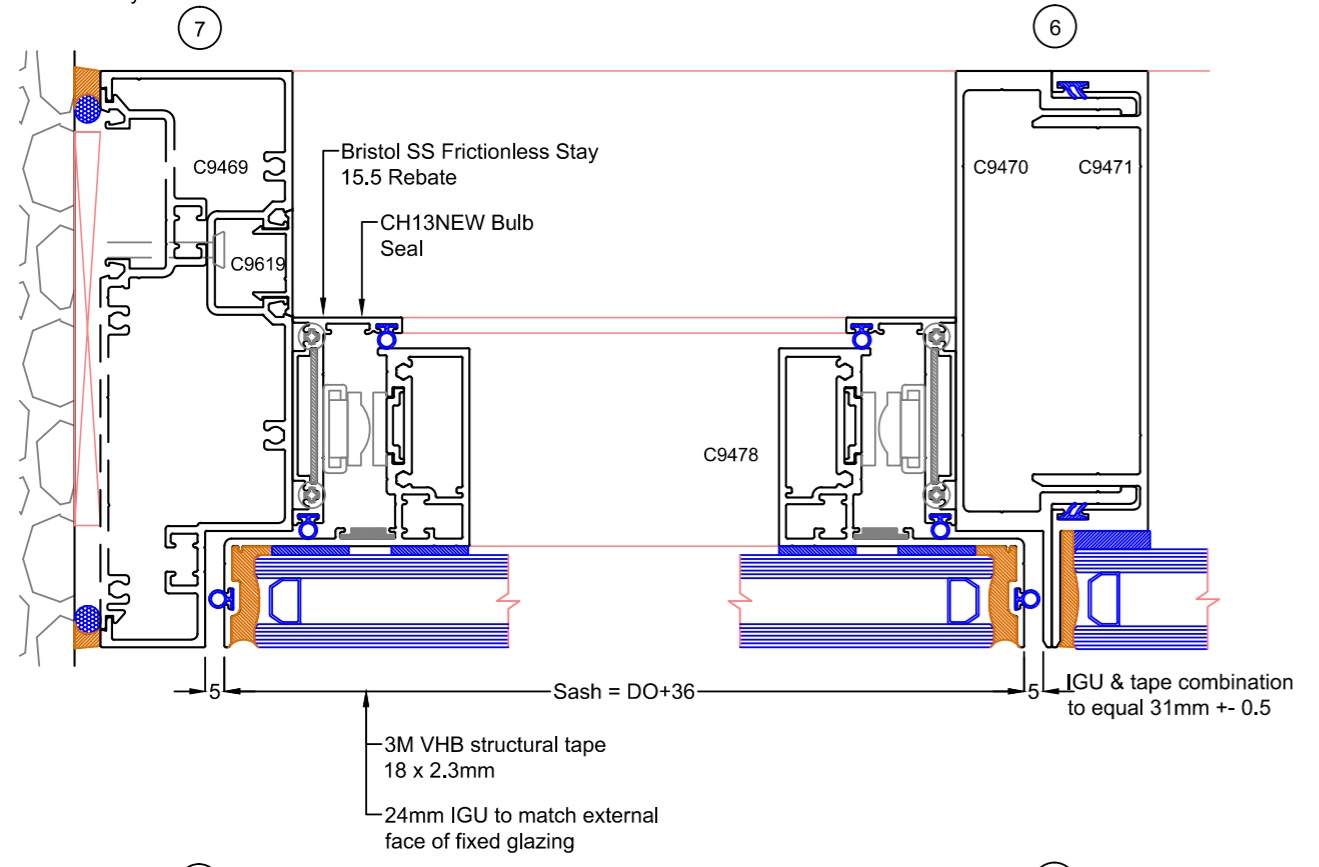


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

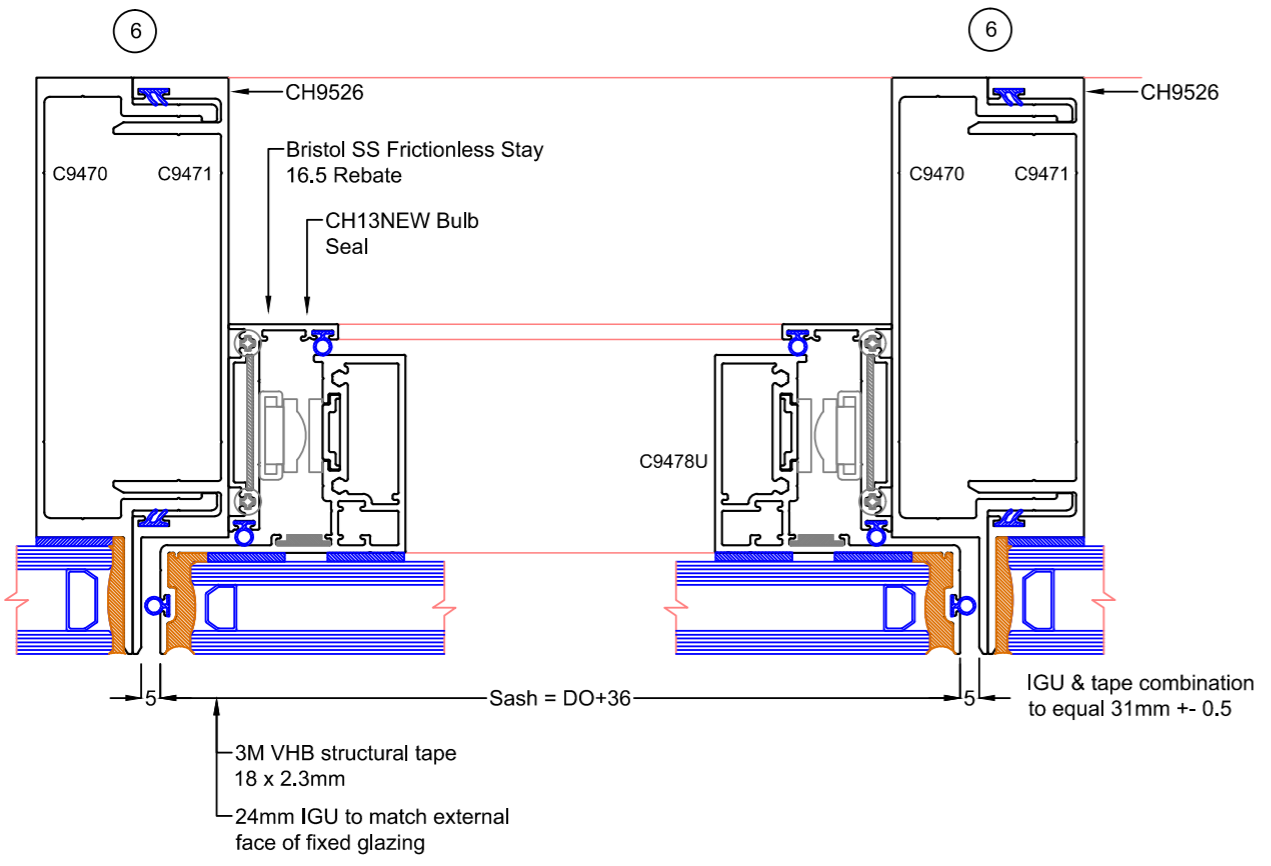
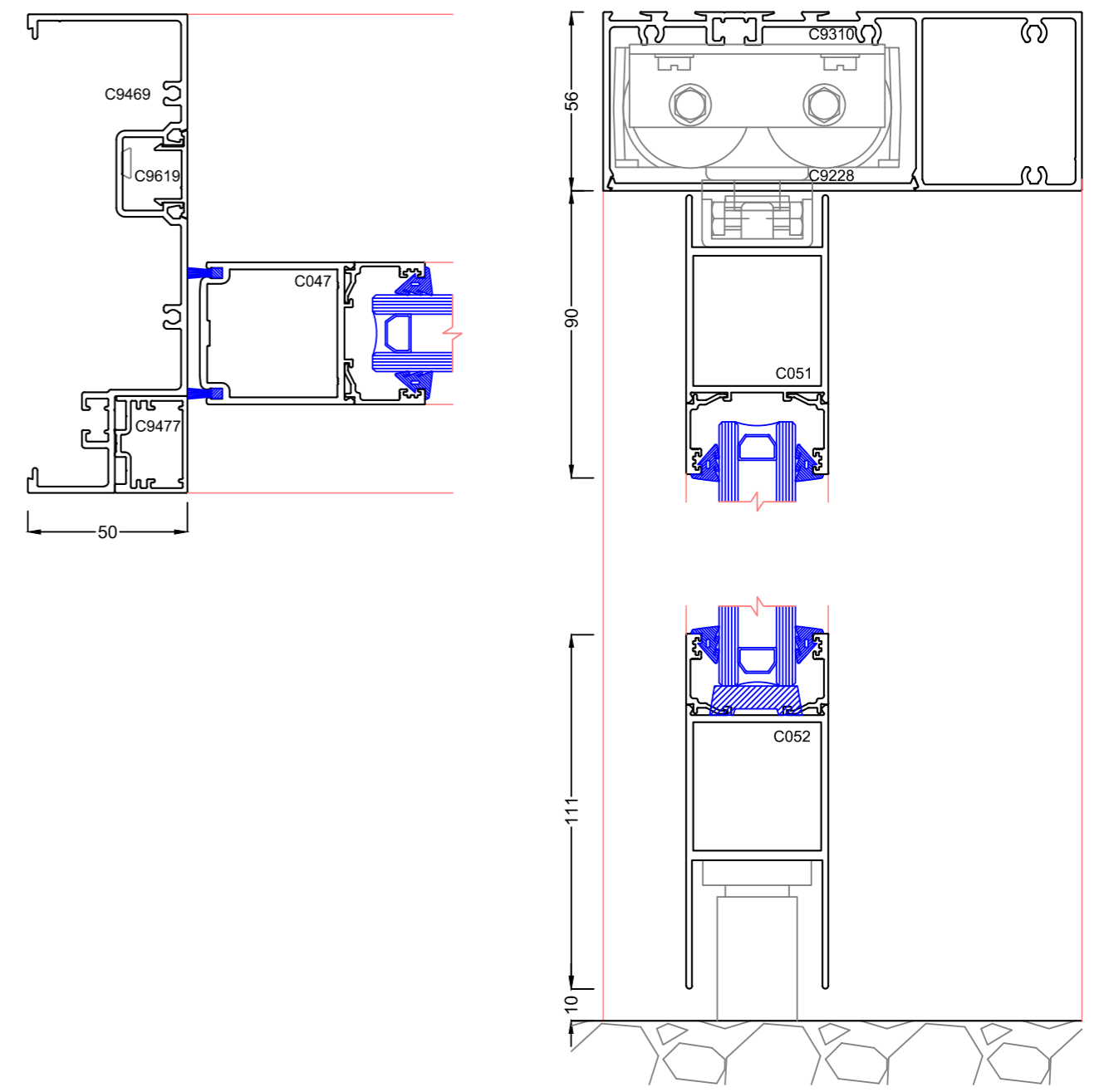
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Structural Glazed Sash C9480 Jamb & Mullion Detail

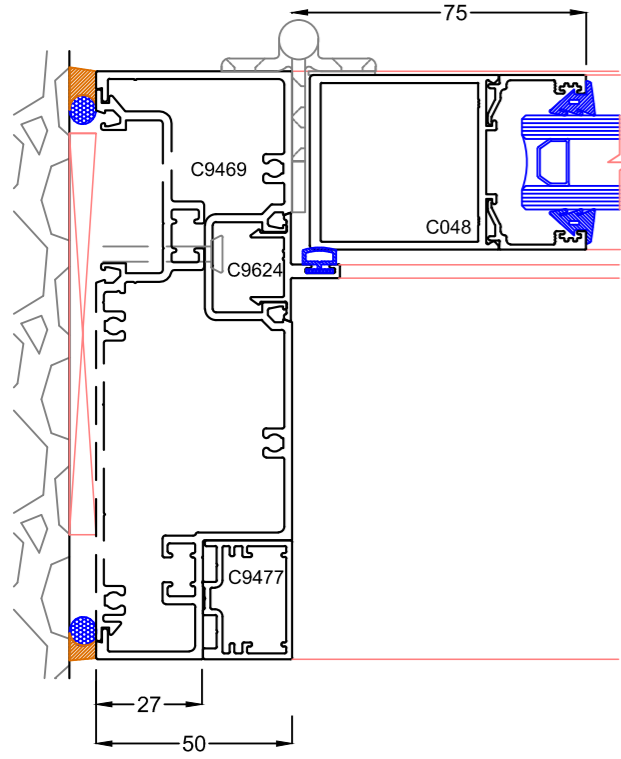
Note: the Sash requires 24mm IGUs with 3M VHB tape, so that the external face of glass aligns with the IGU in the fixed framing.
C9469 Pocketed Jamb allows concealed fixing through the pocket. The awning Sash can be fully assembled onto the frame & Flush Filler C9619 be fitted after installation.



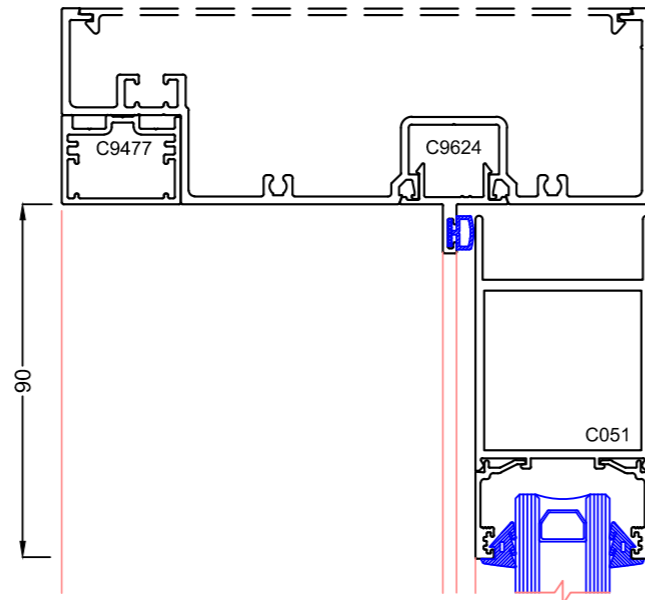
Pivot Door Detail using C9477 Rebate Adaptor



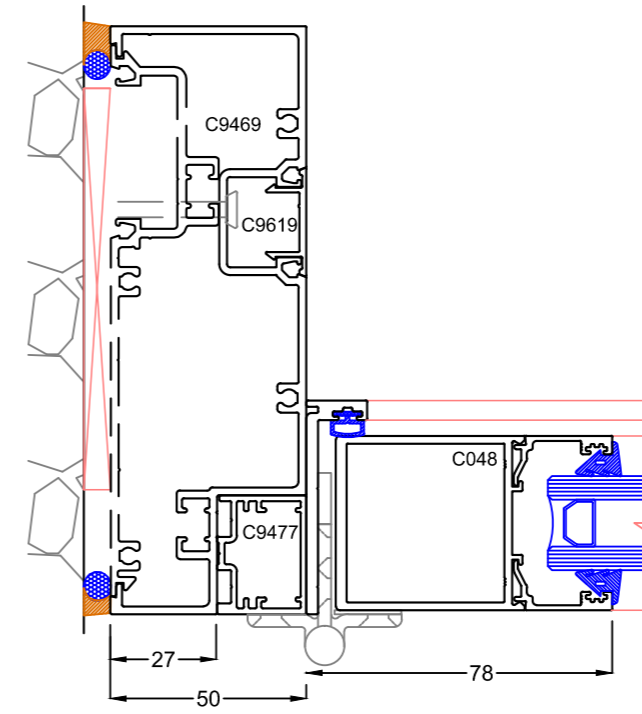
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45mm Beaded Door Open IN



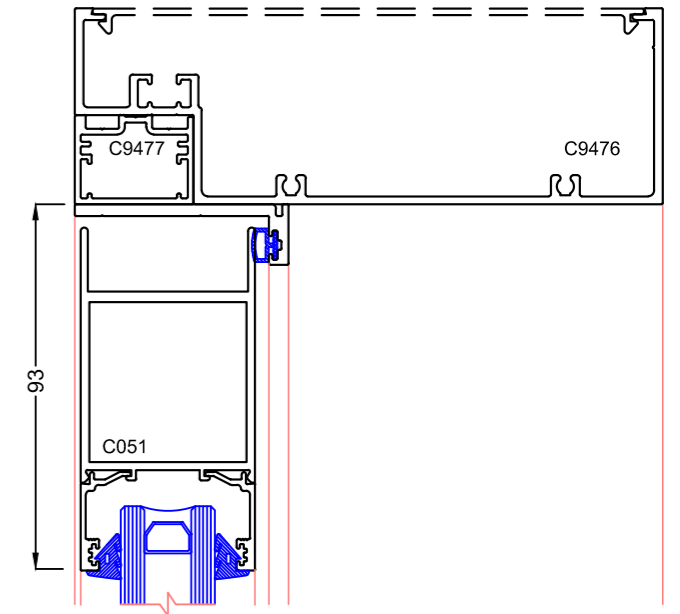
Head Detail 45mm Beaded Door



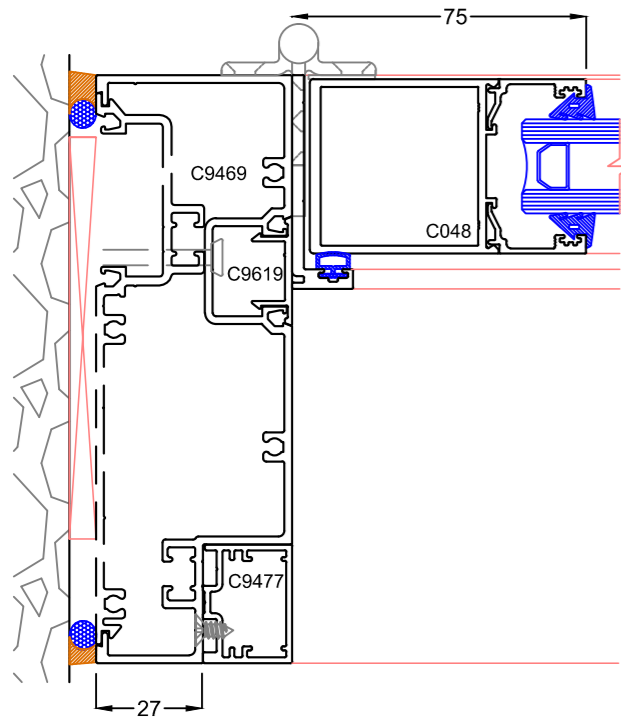
45mm Beaded Door Open IN



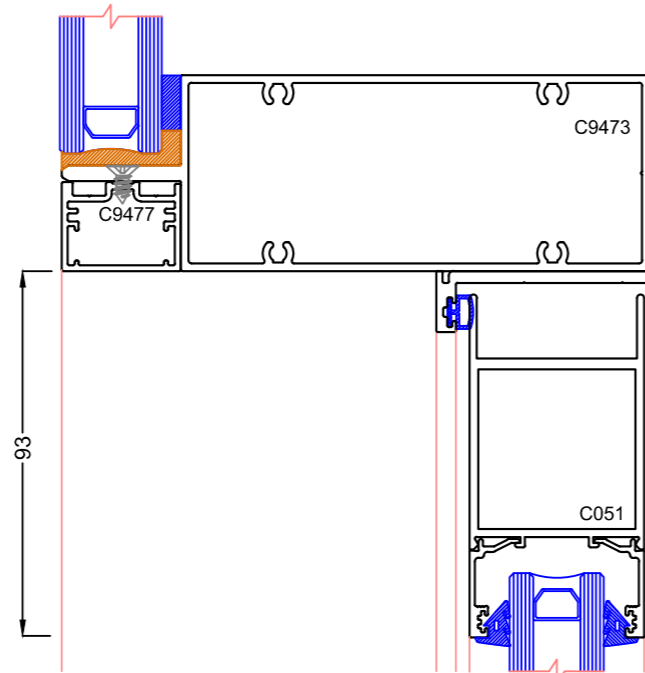
Head Detail 45mm Beaded Door



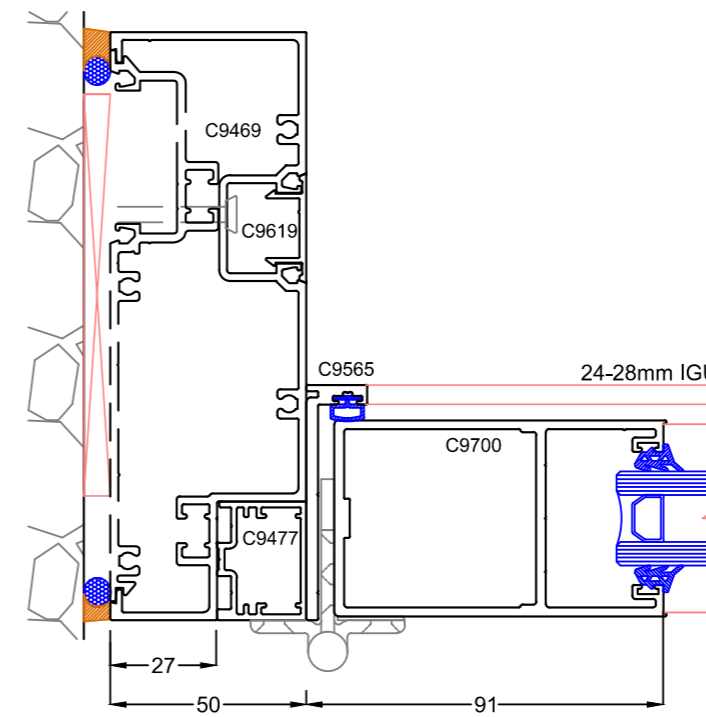
Jamb Detail 45mm Beaded Door Open IN



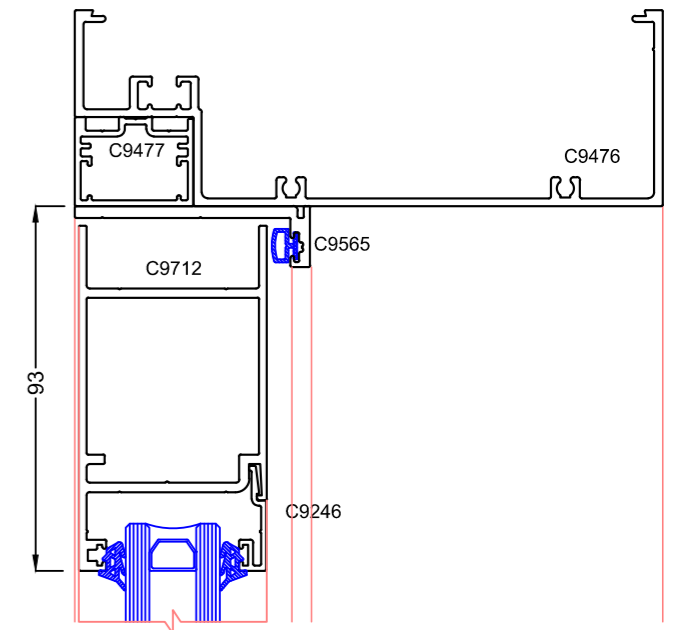
Transom Detail 45mm Beaded Door Open IN



Max 50mm Pocketed Door Open Out



Head Detail Max 50mm Pocketed Door

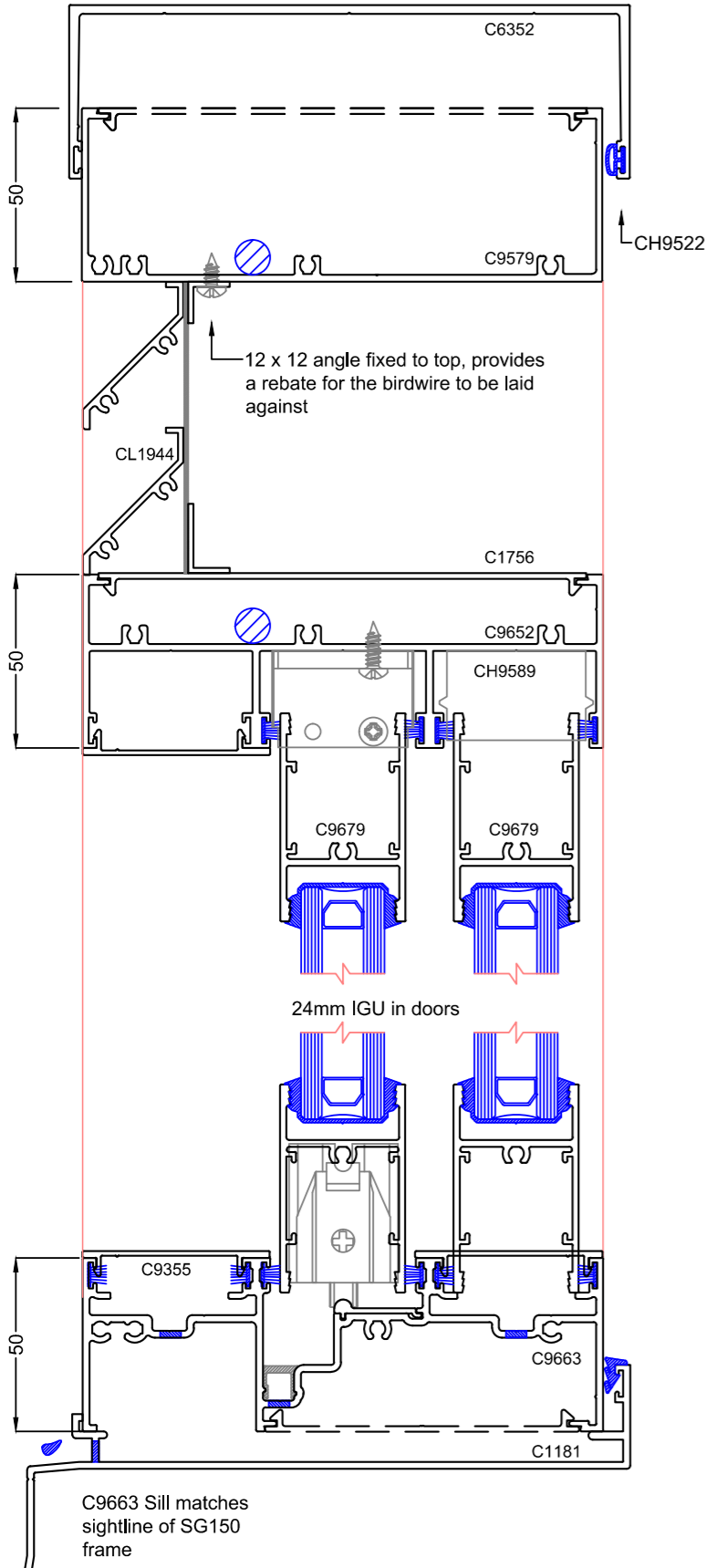


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

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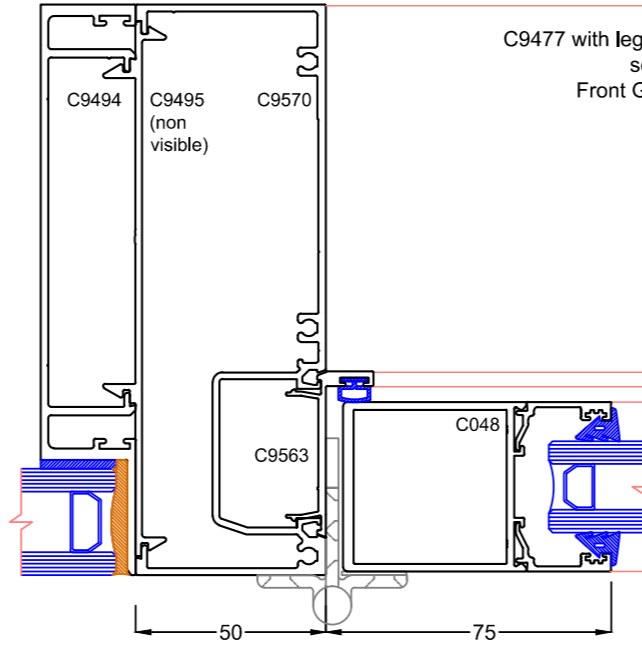
Max Sliding door integrating with SG150

By coupling to SG150 sidelights the Max Sliding door matches sightlines of head, sill & transom



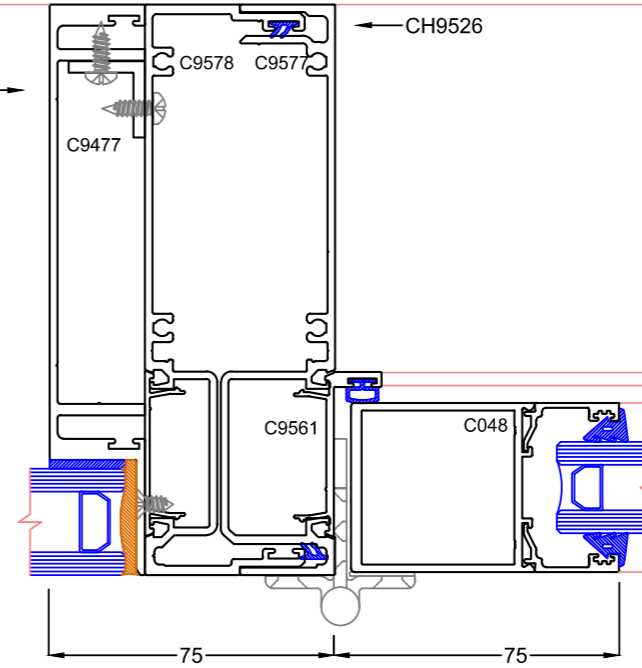
Intermediate Coupler

Enables SG150 to couple to 150mm Framing systems or sliding doors



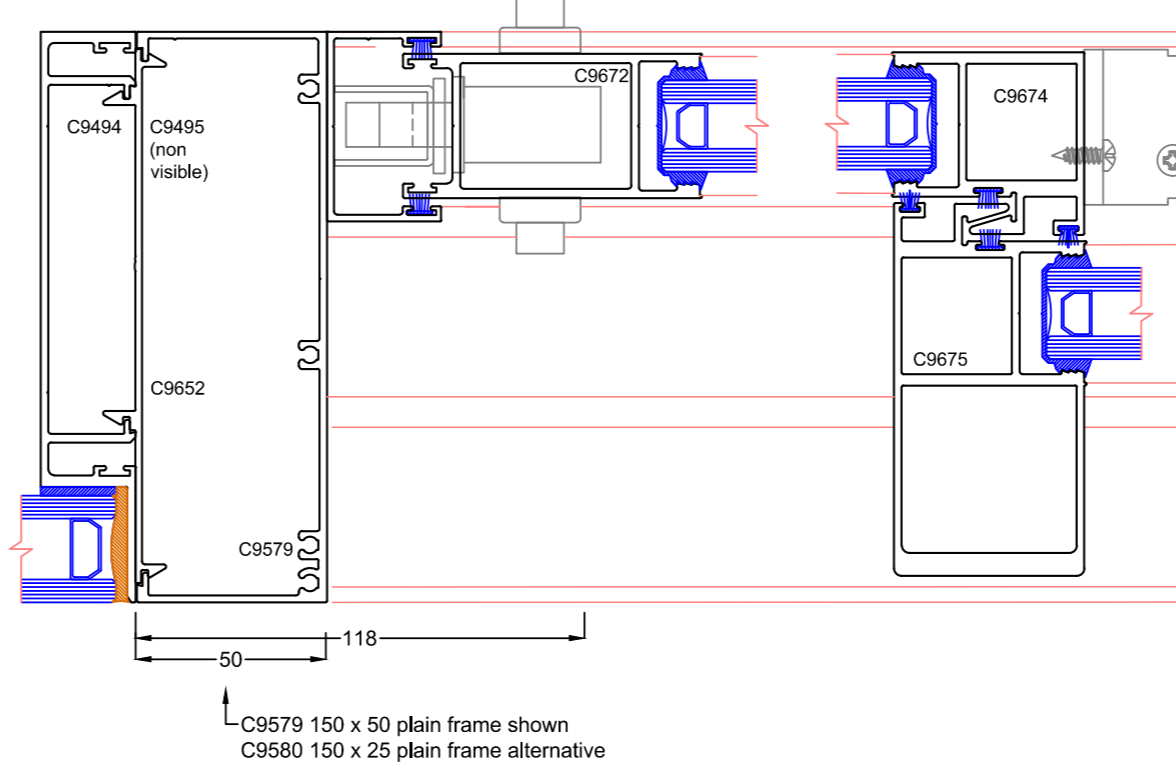
Screw fixing to 150 Front Double Glaze

Enables SG150 to couple to 150mm Framing systems or sliding doors



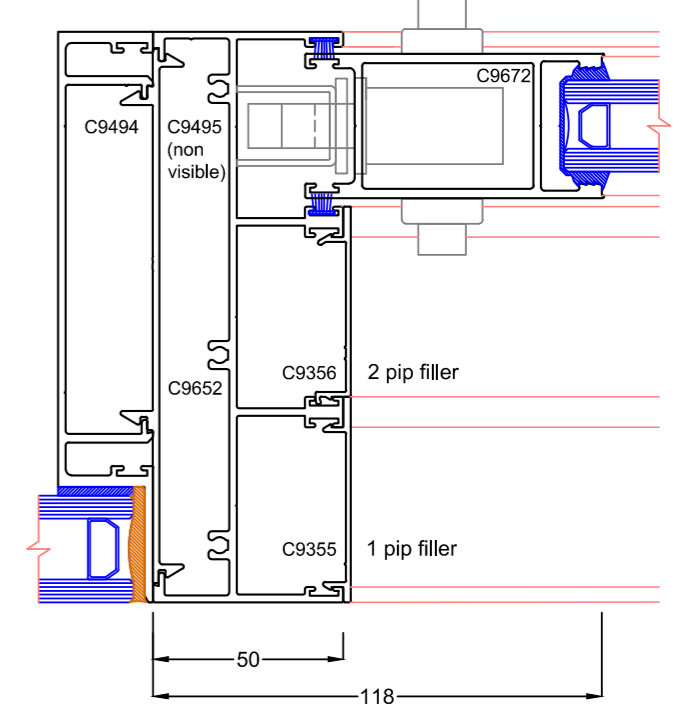
Intermediate Coupler

Adapting to Max Sliding Door with or without highlight (150 frame)



Intermediate Coupler

Adapting to Max Sliding Door without highlight (150 frame)

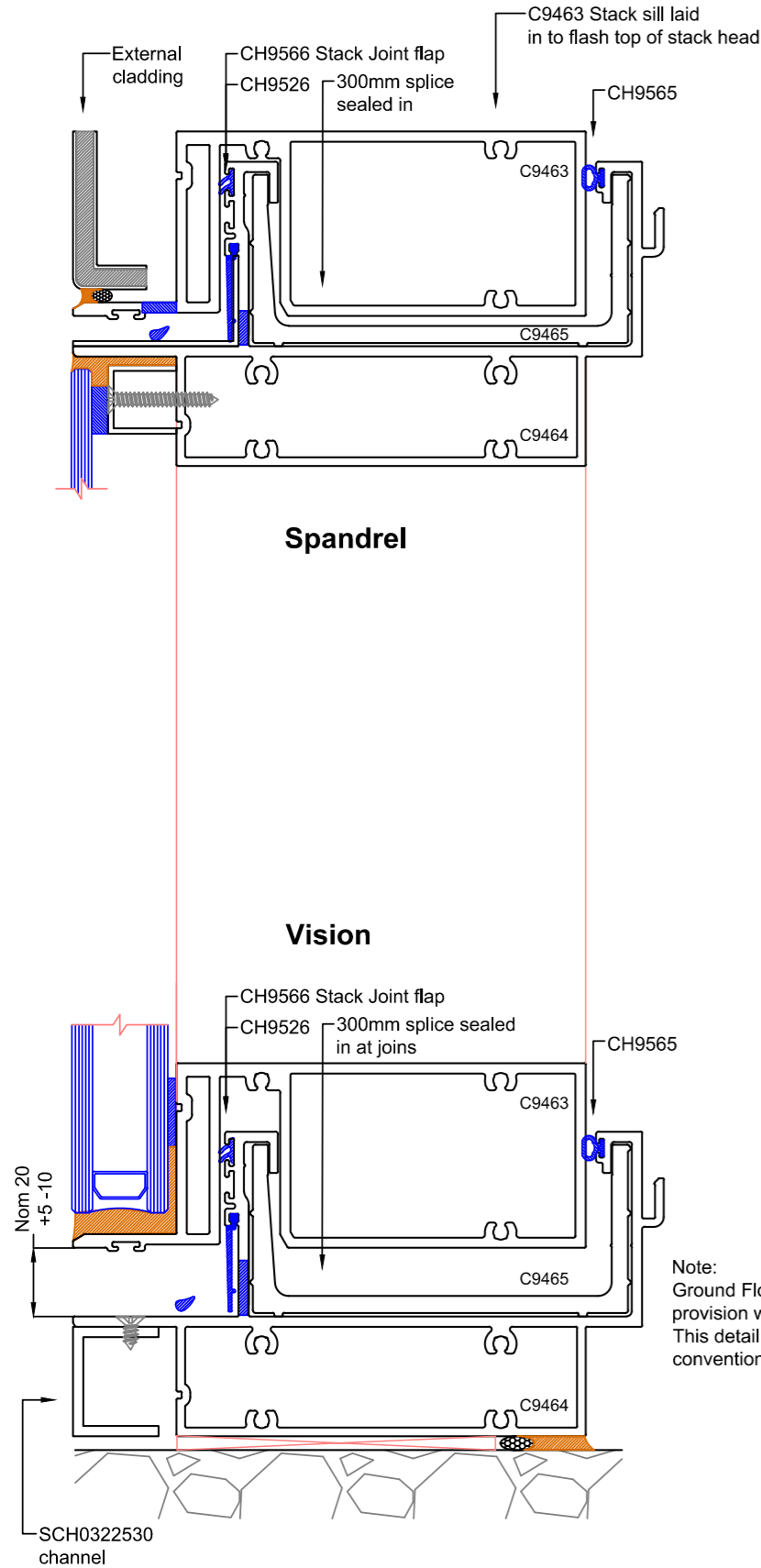


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 17

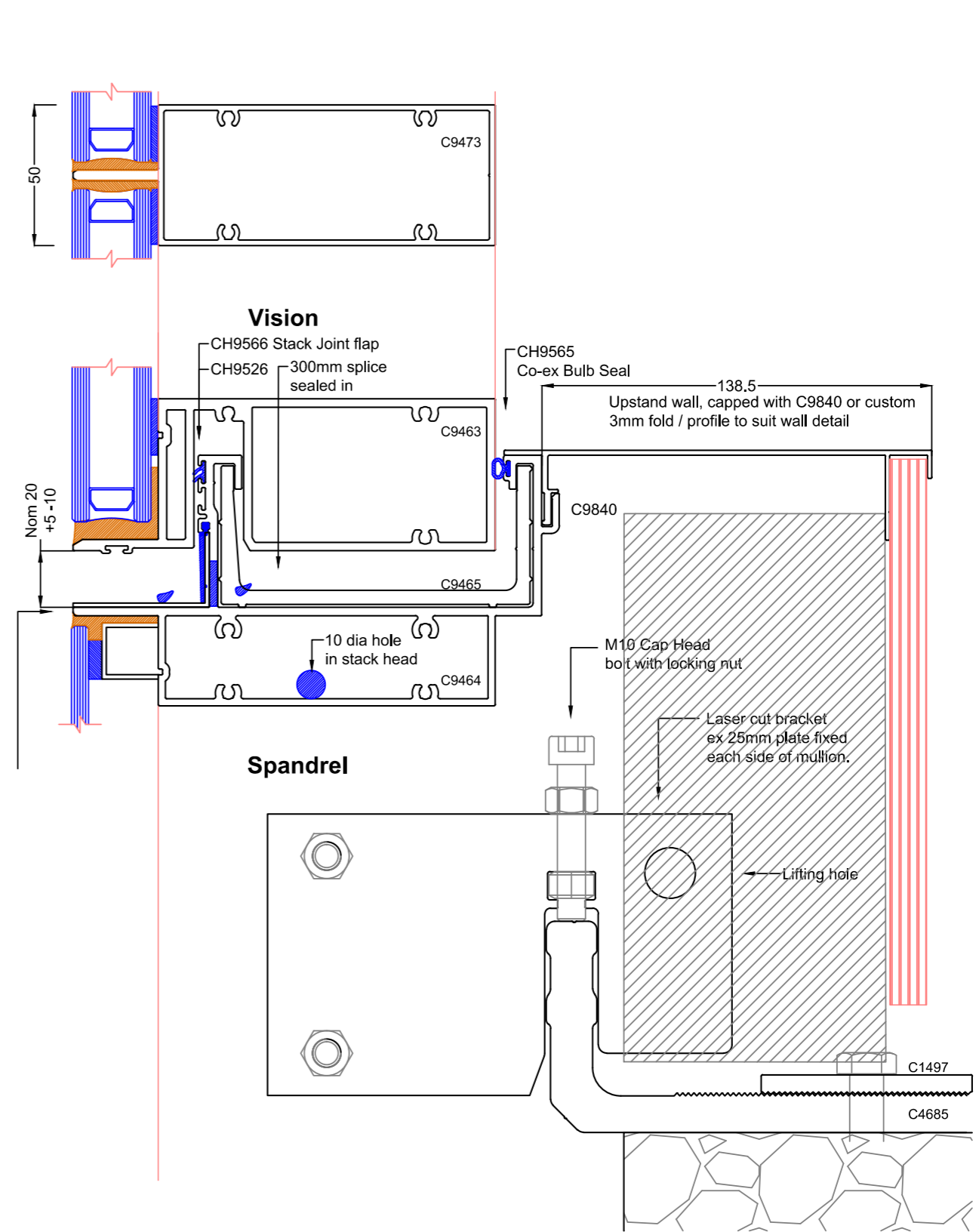
Unitised Curtain Wall & Soffit & Sill detail

Stack joints provide vertical movement within the curtain wall & can differ each project. It is important to confirm the engineered slab deflection / movement in the system before deciding if this assembly is suitable.



Unitised Curtain Wall & HD Stack Joint - side fixed bracket

Stack joints provide vertical movement within the curtain wall & can differ each project. It is important to confirm the engineered slab deflection / movement in the system before deciding if this assembly is suitable.



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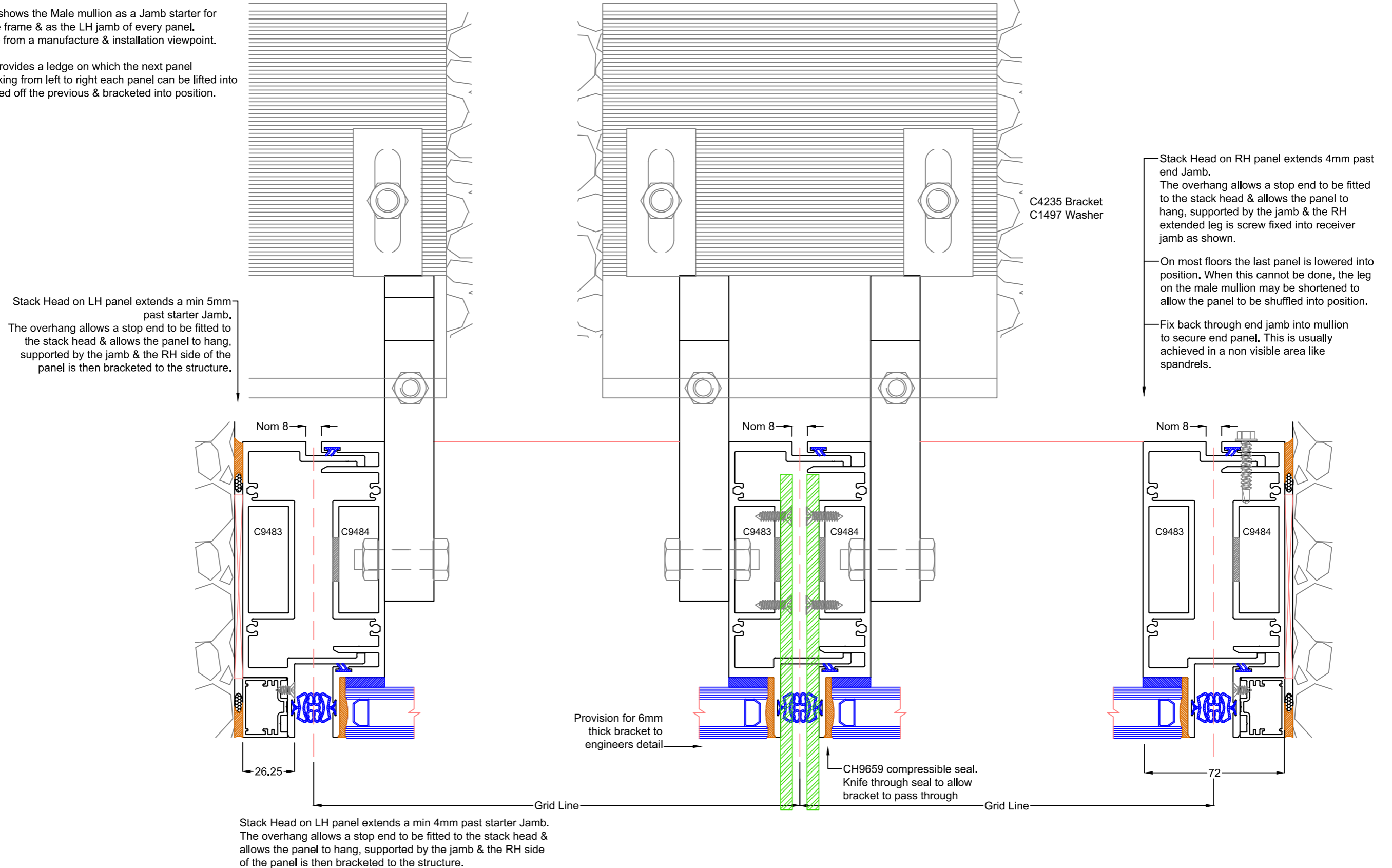
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Split Mullion as Jamb

It is important to determine grid line dimensions so they can be repeated across facades with minimal variations. This gives unity to the facade & would usually only require the last panel to be adjusted in size.

The detail below shows the Male mullion as a Jamb starter for the LH side of the frame & as the LH jamb of every panel. This is imperative from a manufacture & installation viewpoint.

The stack head provides a ledge on which the next panel references & working from left to right each panel can be lifted into position, referenced off the previous & bracketed into position.



Stack Head on LH panel extends a min 5mm past starter Jamb. The overhang allows a stop end to be fitted to the stack head & allows the panel to hang, supported by the jamb & the RH side of the panel is then bracketed to the structure.

Typical Mullion Detail

Bracketed each side of Mullion

Typical End Jamb Detail

Stack Head on RH panel extends 4mm past end Jamb. The overhang allows a stop end to be fitted to the stack head & allows the panel to hang, supported by the jamb & the RH extended leg is screw fixed into receiver jamb as shown.

On most floors the last panel is lowered into position. When this cannot be done, the leg on the male mullion may be shortened to allow the panel to be shuffled into position.

Fix back through end jamb into mullion to secure end panel. This is usually achieved in a non visible area like spandrels.

C4235 Bracket
C1497 Washer

Provision for 6mm thick bracket to engineers detail

CH9659 compressible seal. Knife through seal to allow bracket to pass through

Stack Head on LH panel extends a min 4mm past starter Jamb. The overhang allows a stop end to be fitted to the stack head & allows the panel to hang, supported by the jamb & the RH side of the panel is then bracketed to the structure.

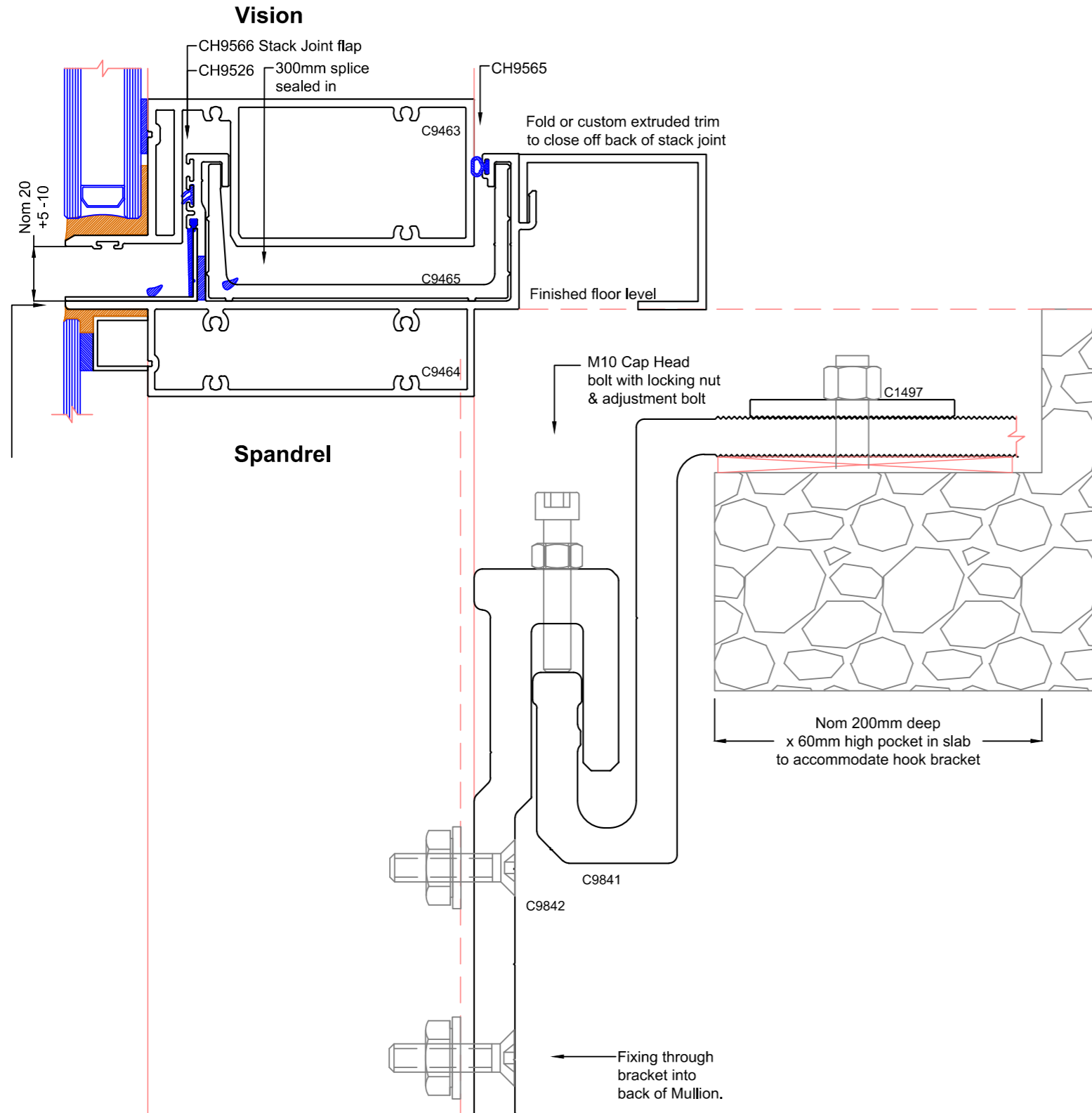
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 19

Unitised Curtain Wall & HD Stack Joint - back fixed bracket

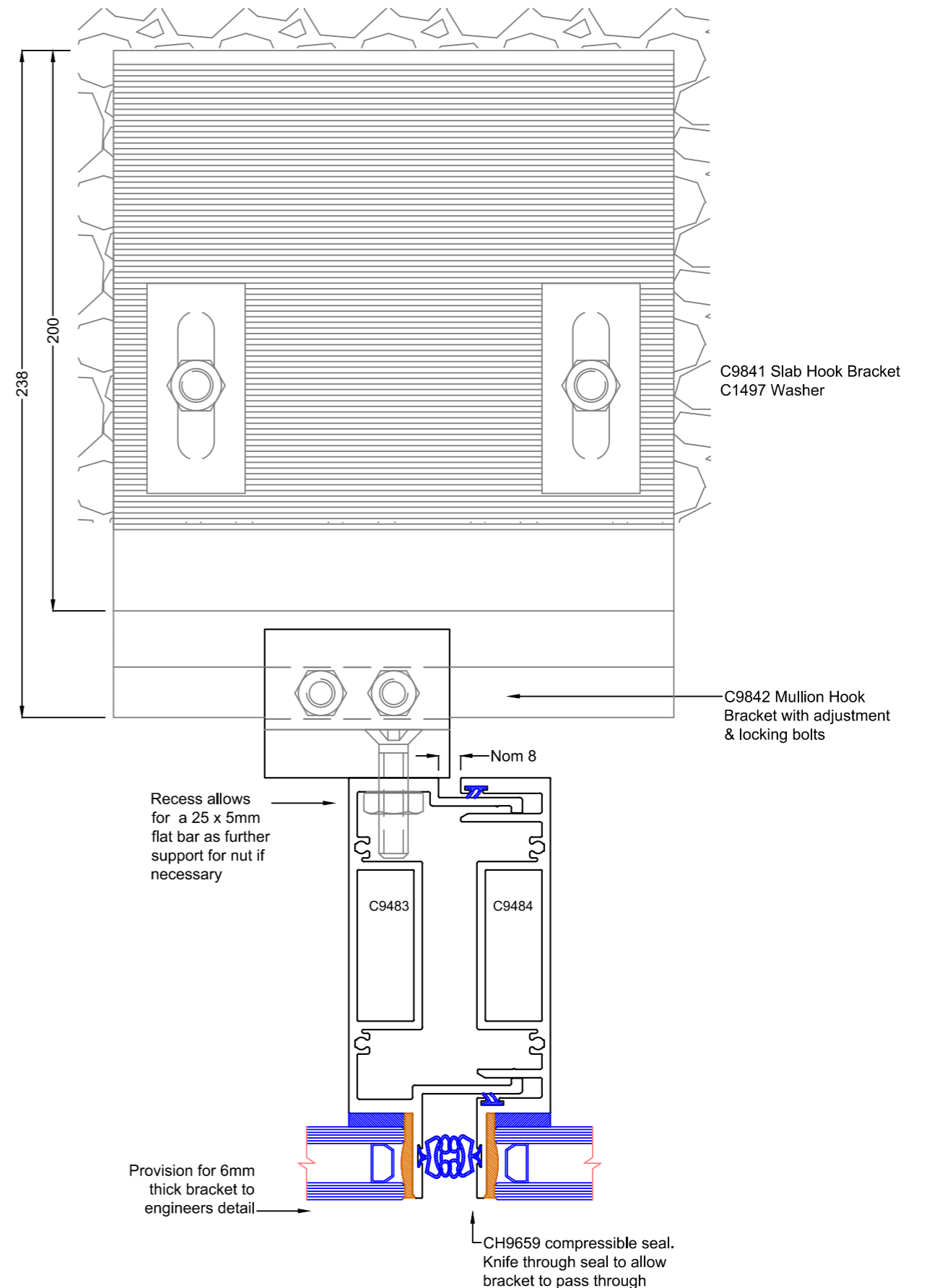
This bracketing method works on the HD Split Mullions where it can be bolted through the back of the mullion.

Stack joints provide vertical movement within the curtain wall & can differ each project. It is important to confirm the engineered slab deflection / movement in the system before deciding if this assembly is suitable.



Typical Mullion Detail with hook bracket

Bracketed at back of Male Mullion

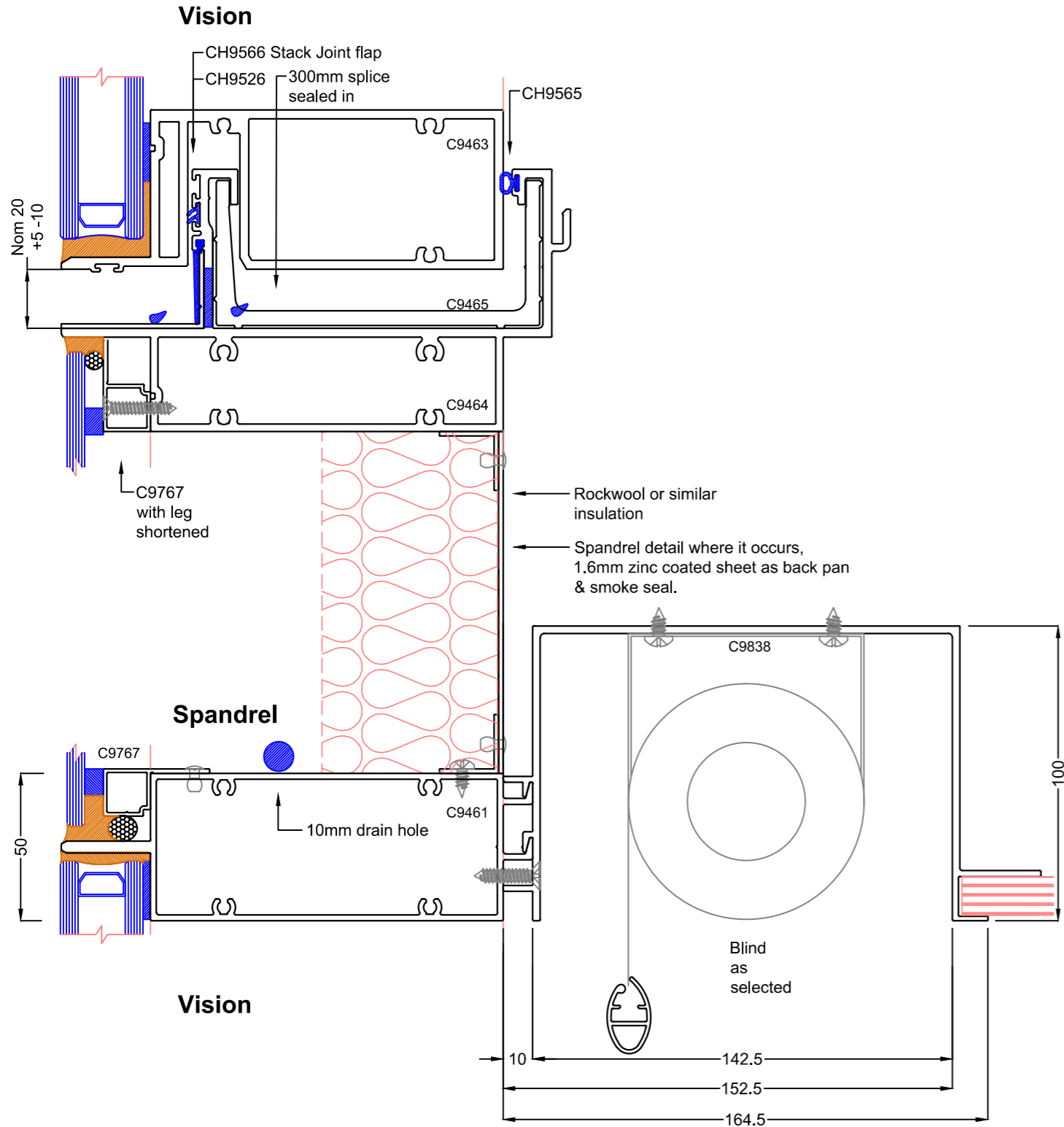


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 20

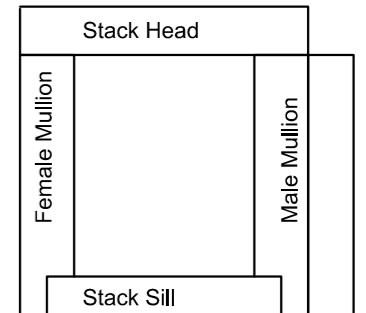
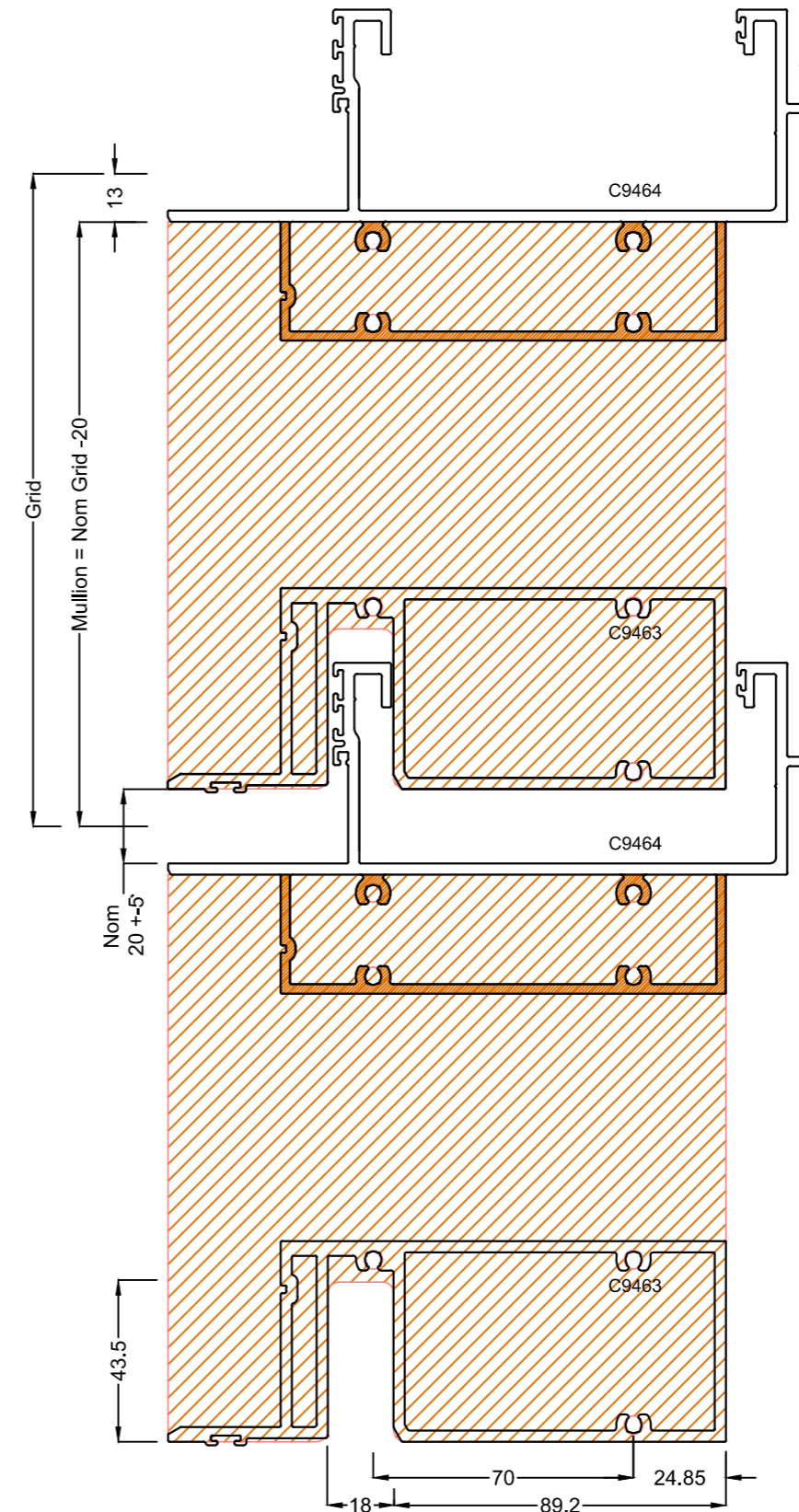
Blind Pelmet Transom Detail

This detail can be used at the top of vision panels & connecting with the ceiling grid.



Stack Joint dimensions

The sizes here are dependant on the nominal stack joint gap & may vary for each project dependant on slab deflection / movement required.



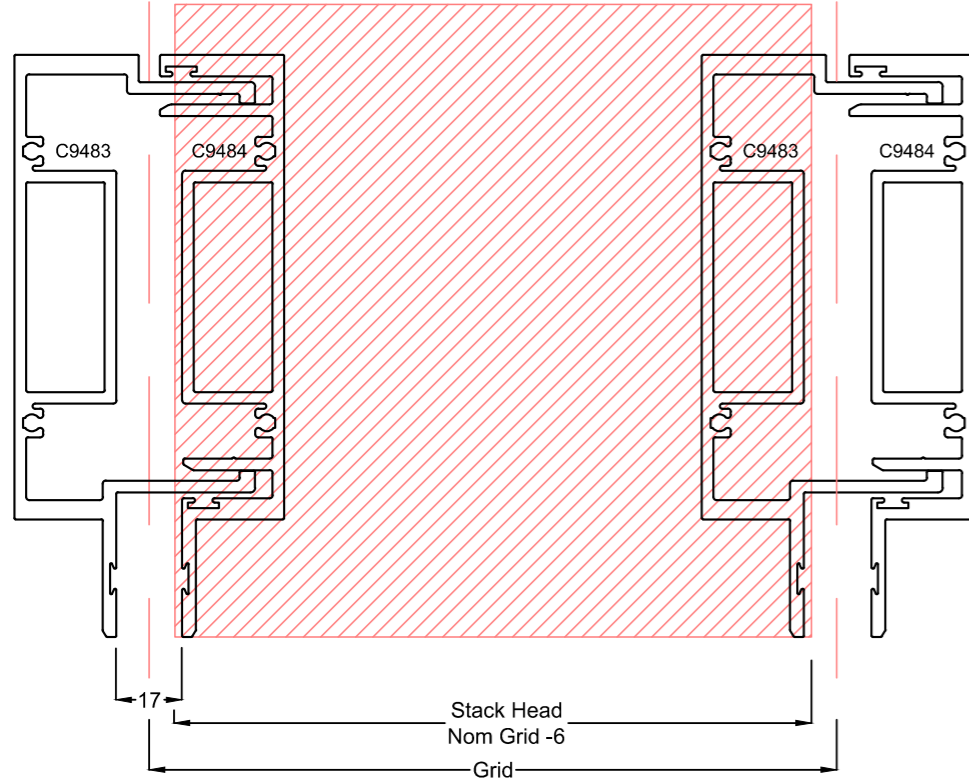
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 21

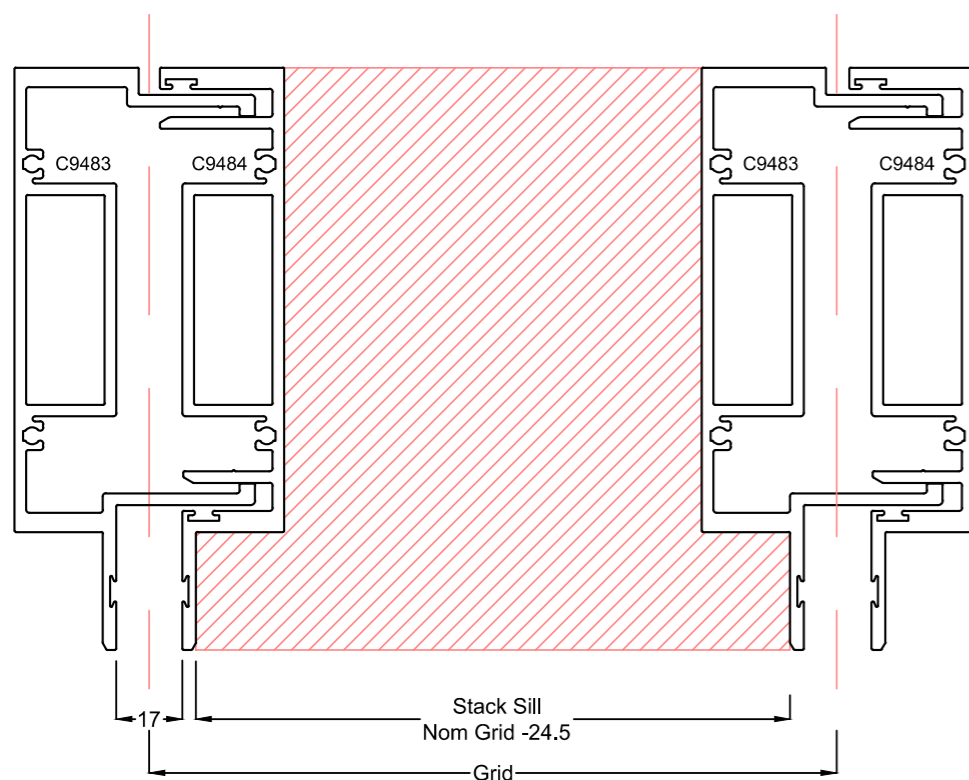
Stack Head / Stack Sill Cutting - Shadescreen Mullion

These dimensions vary dependant on the selected mullion & the nominal gap required between mullions. This detail for the shadescreen mullion provides a 6mm internal gap & 17mm external gap when used with shadescreen brackets.

Stack Head machining



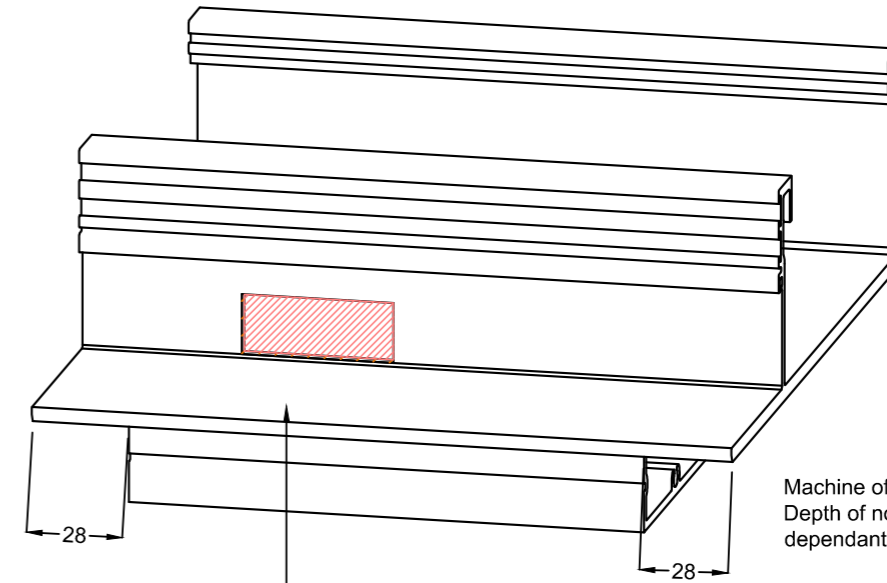
Stack Sill machining



Stack Joint Machining Details

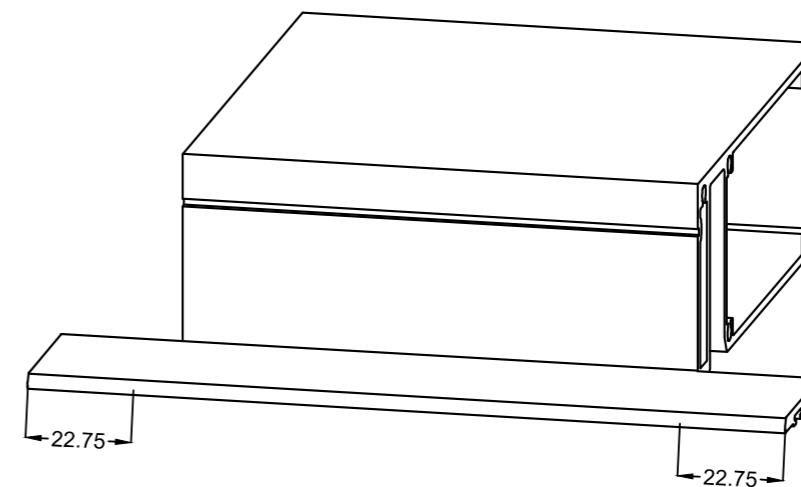
Machining is based on the use of C9816, C9817 mullion extrusions which have a 40 x 32mm rebate.
Note that frame extrusions C9828, C9829 have 40 x 25mm & machining changes accordingly

C9464 Stack Head Machining - Standard Panels



40 x 16mm slots, min 200mm from each end of stack head so that the slot is clear of the splice. An additional central slot for panels over 1500mm. Slots may also provide a point where panels may need to be ratcheted to shift panels into place.

C9463 Stack Sill Machining - Standard Panels



Notch off body of stack sill 32mm from each end

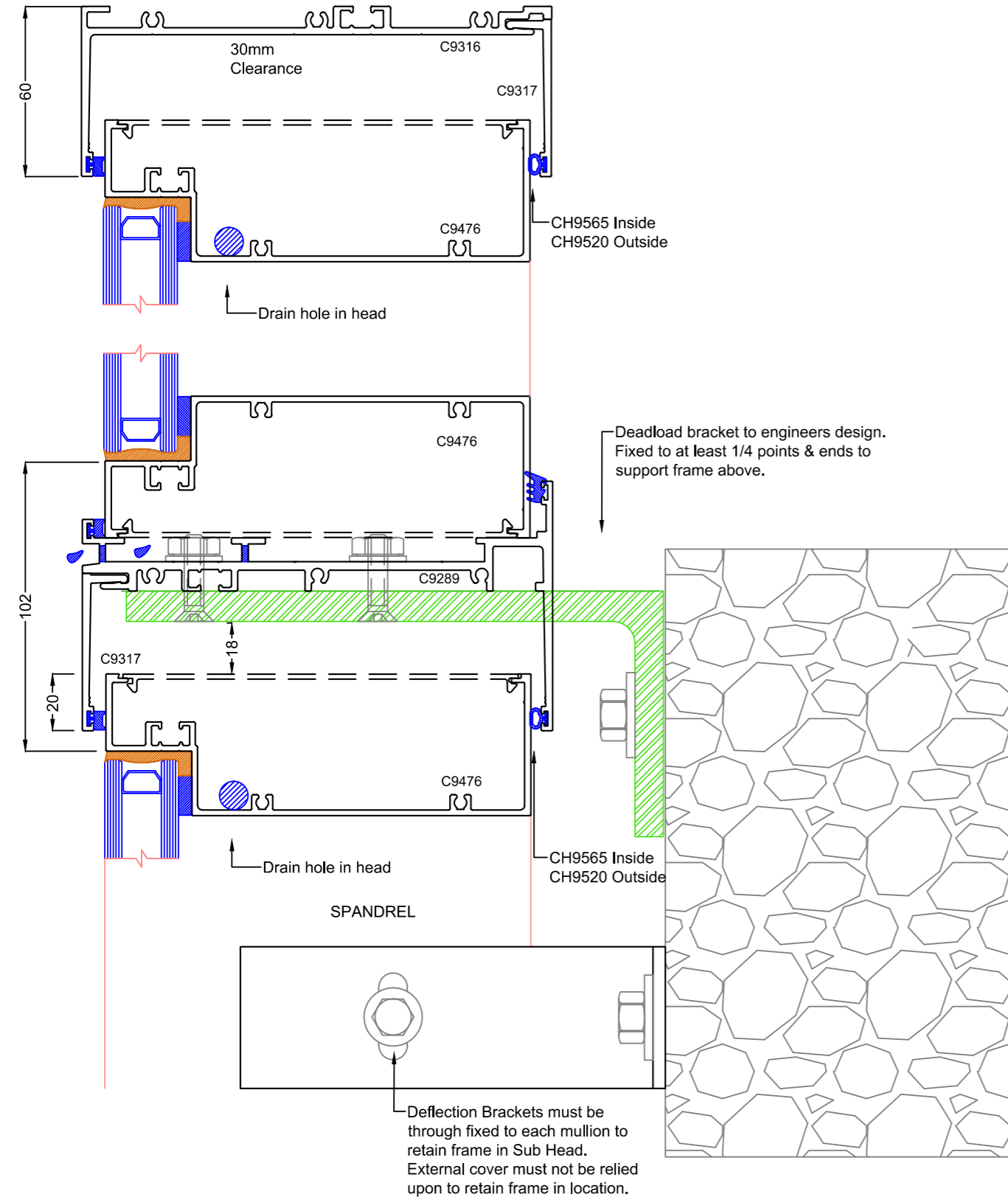
Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 22

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

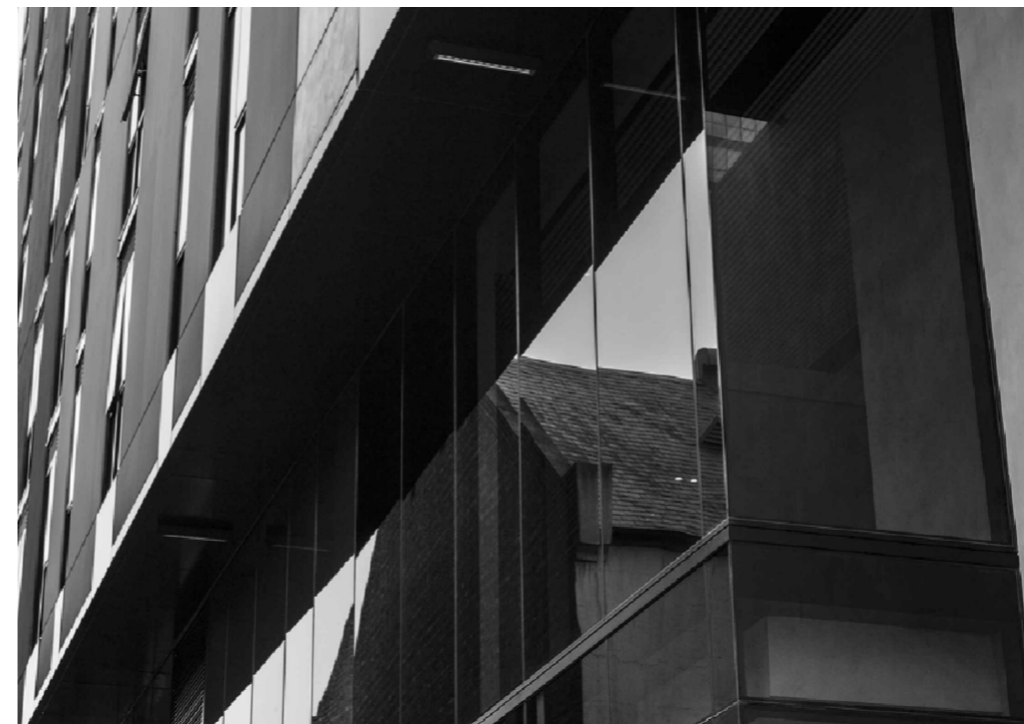
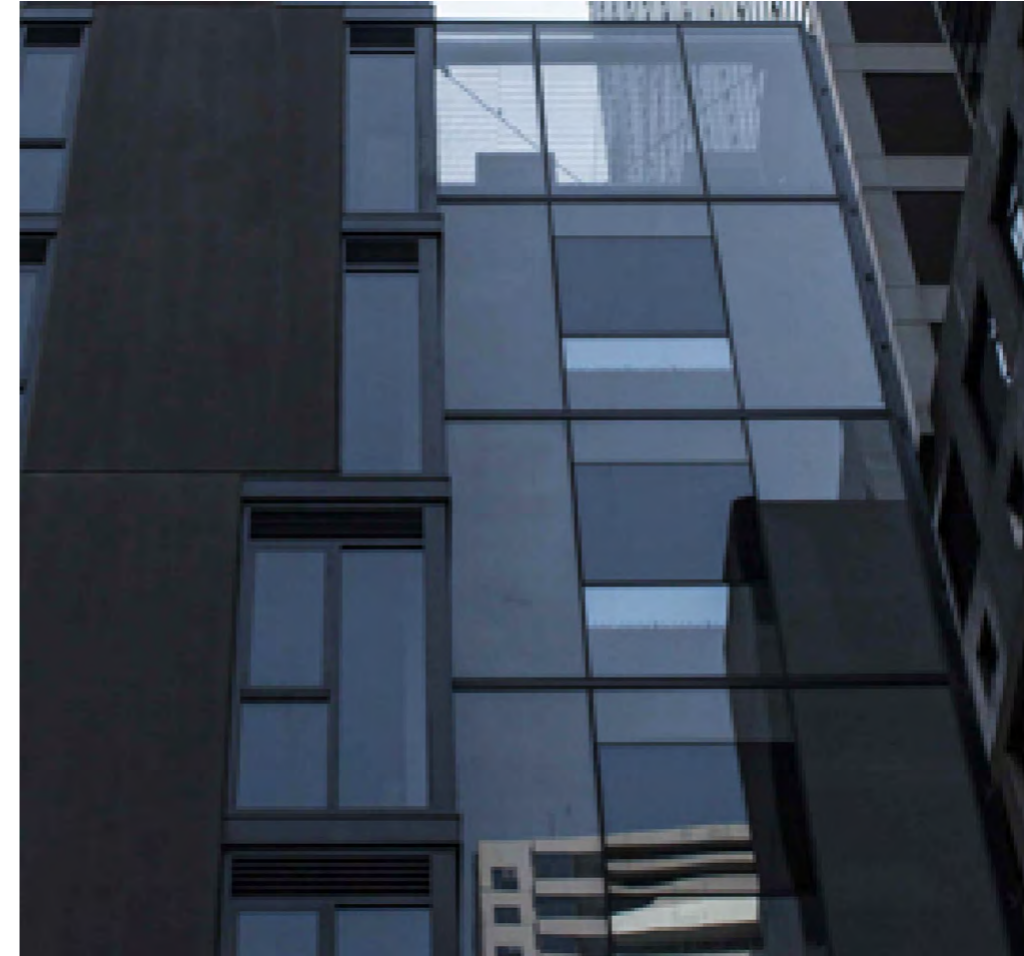
Used where mullion fixing isn't available on the frame above, as required by a stack joint. The top frame is retained by a sub head & the stack sub head/sill is bracketed back to the structure to take the weight of the frame below.

- Note: (a) Deadload supporting bracket to engineers detail
 (b) Deflection brackets required on every mullion.
 (c) The external subhead must not be relied on alone to retain the frame in location



Stack Sub Head / Sub Sill

The detail shown below is a project at 312 Latrobe St Melbourne using the stack subhead/subsill in a 5 storey curtain wall.

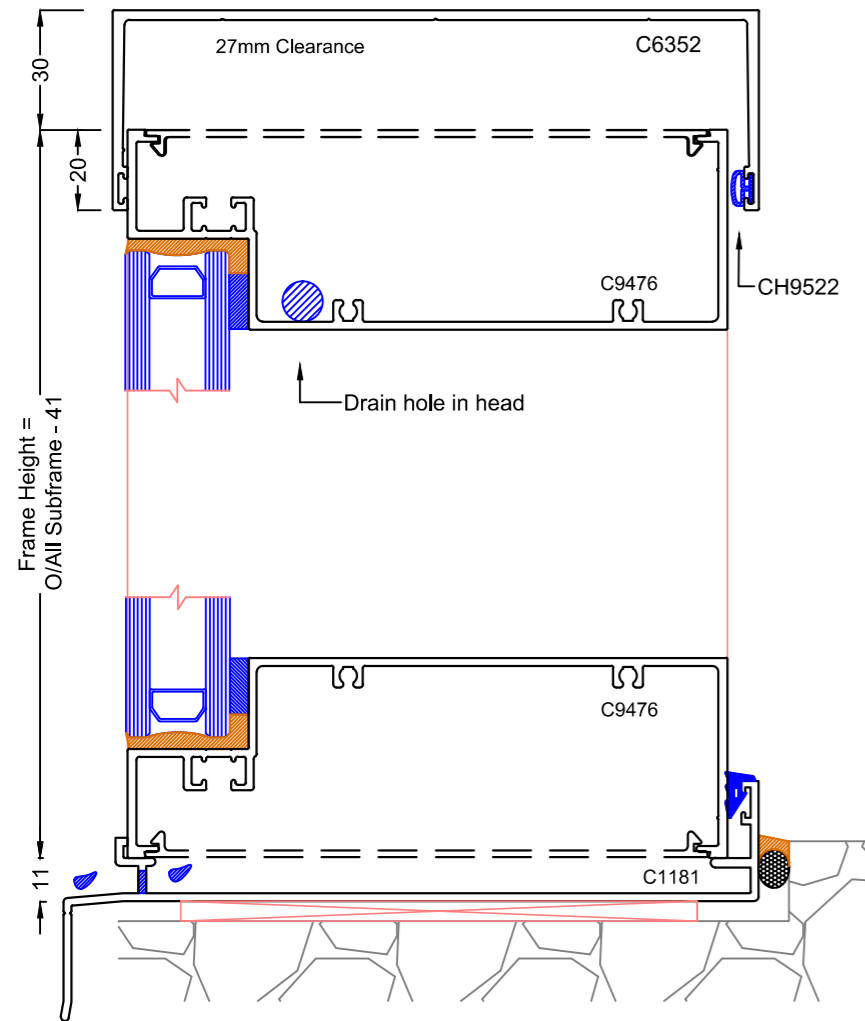


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 23

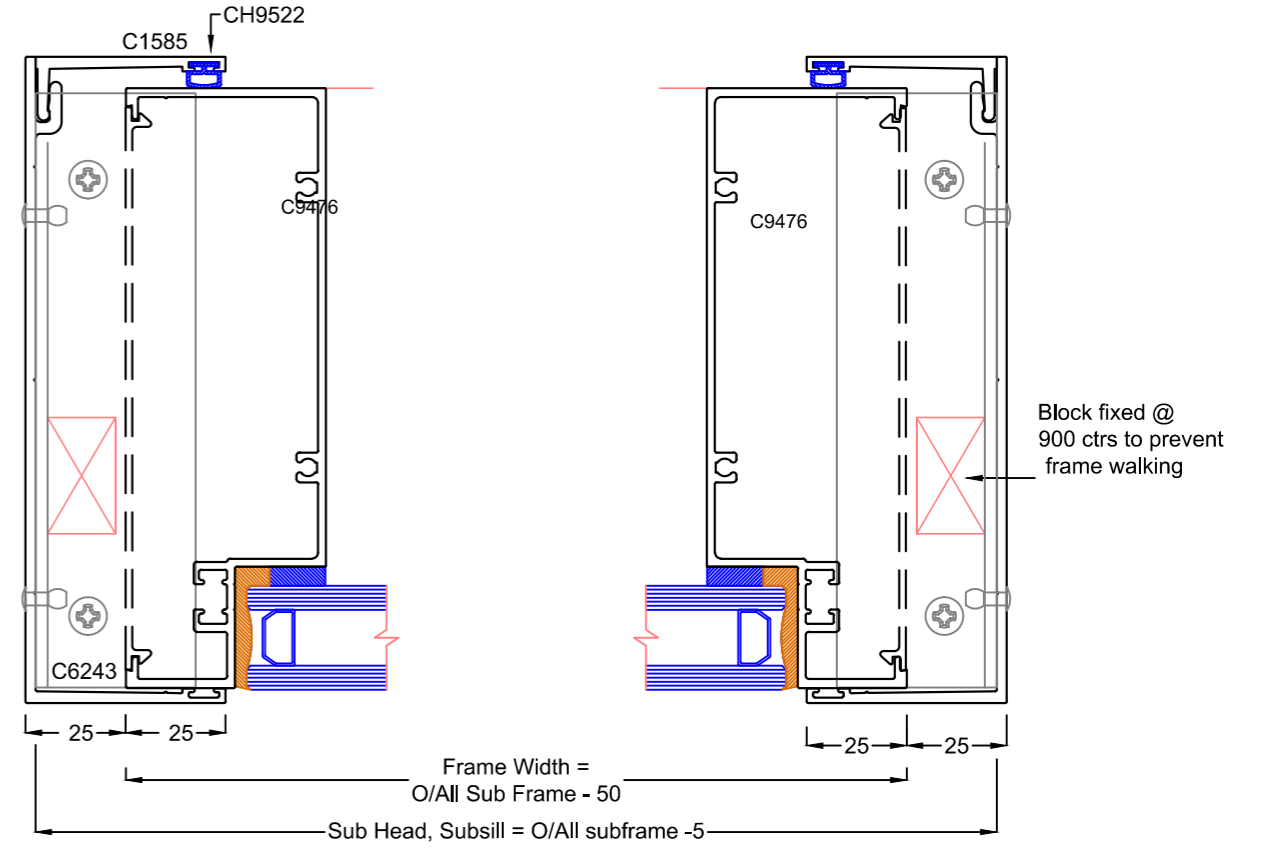
One Piece Sub Head (50 deep)

Typical detail for installation from outside



Two Part Sub Jamb (50 face)

Compatible with standard 150mm Sub Heads & Subsills
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.

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.

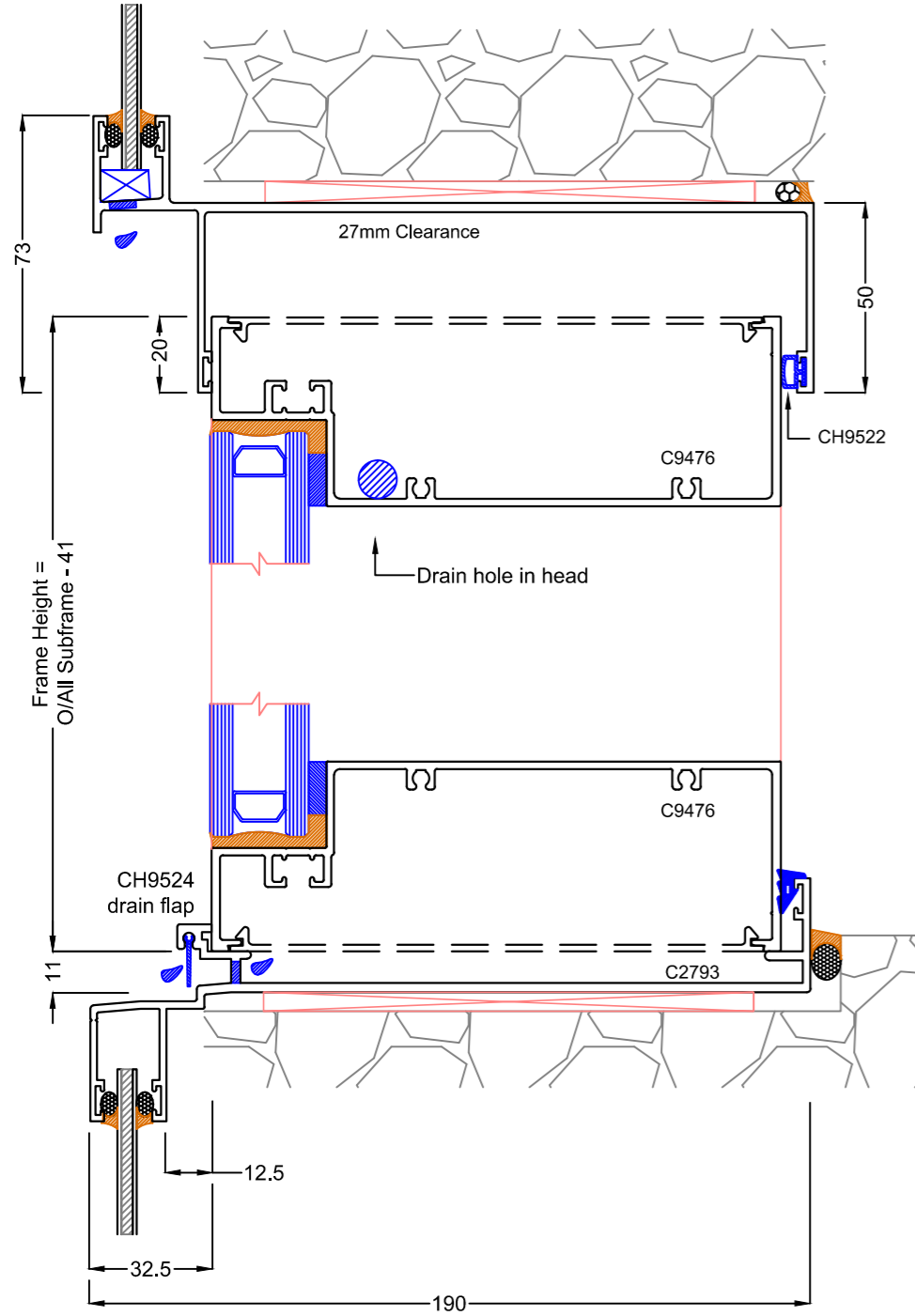
It must be remembered that all window installations require a continuous internal seal especially & the use of subsills & subframes are especially useful in achieving this.

Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 24

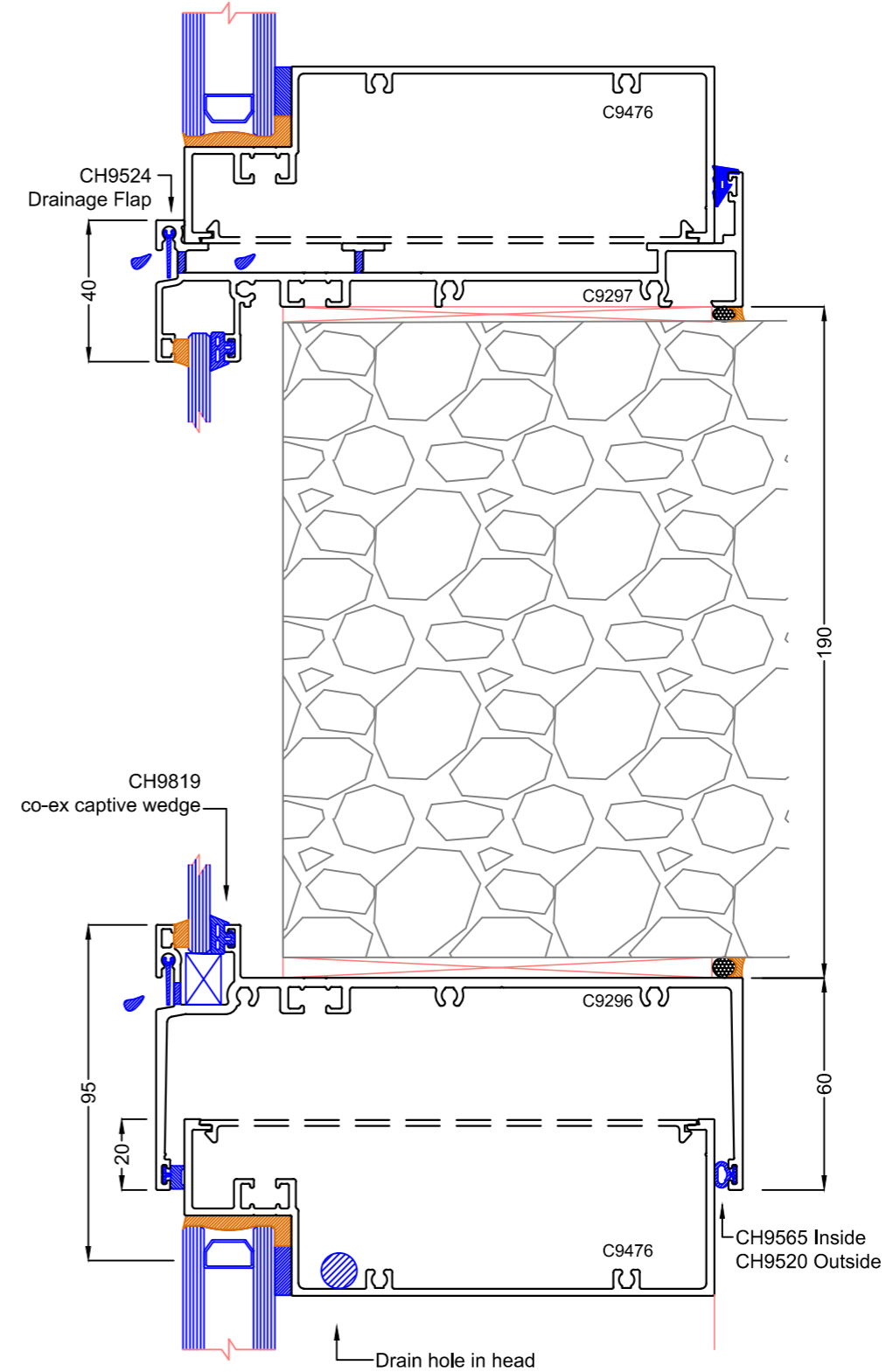
Glazed Spandrel Sub Head / Sill

Compatible with standard 150mm Sub Jamb
Spandrels areas above or below frames can be captured by the spandrel sub frames, especially sheet or composite panels.



Max Glazed Spandrel Sub Head / Sill

Compatible with Max 150mm Sub Jamb allowing a subframe to screw assemble & glazed panels installed from inside.
Spandrels areas above or below frames can be captured by the spandrel sub frames, especially sheet or composite panels.

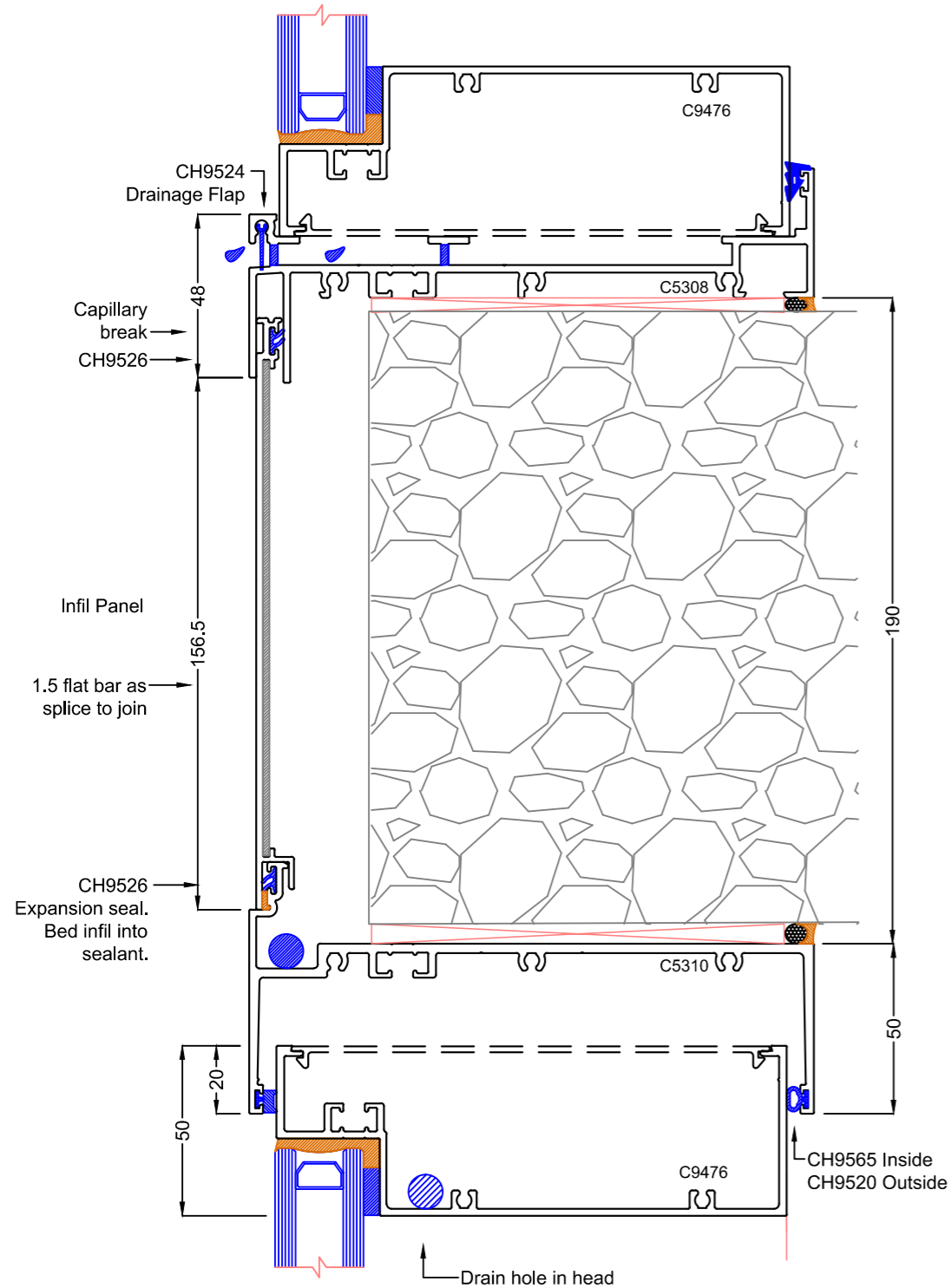


Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate

Max Framing Systems: SG150 - 25

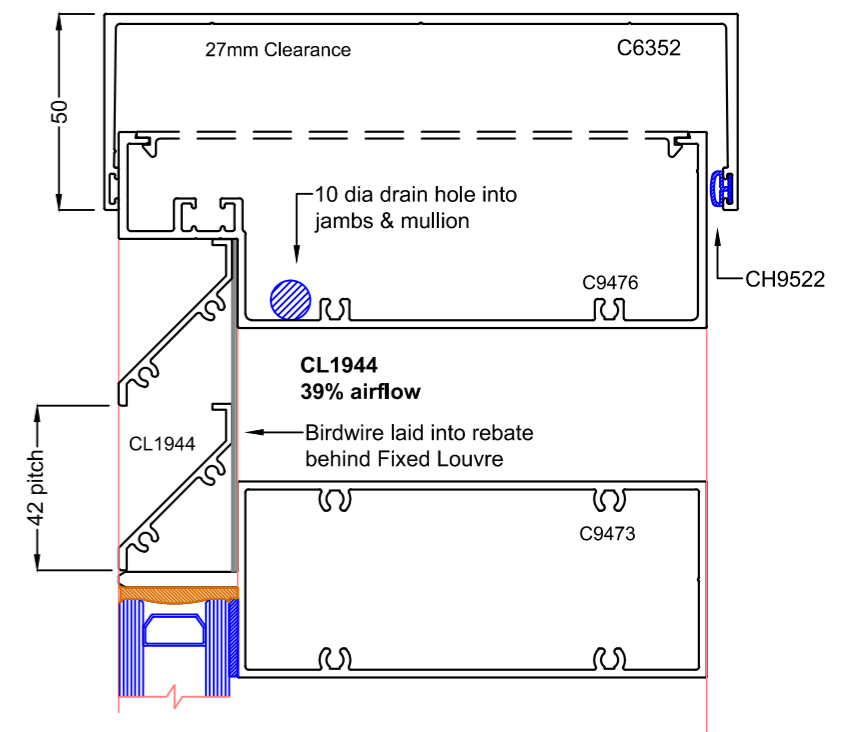
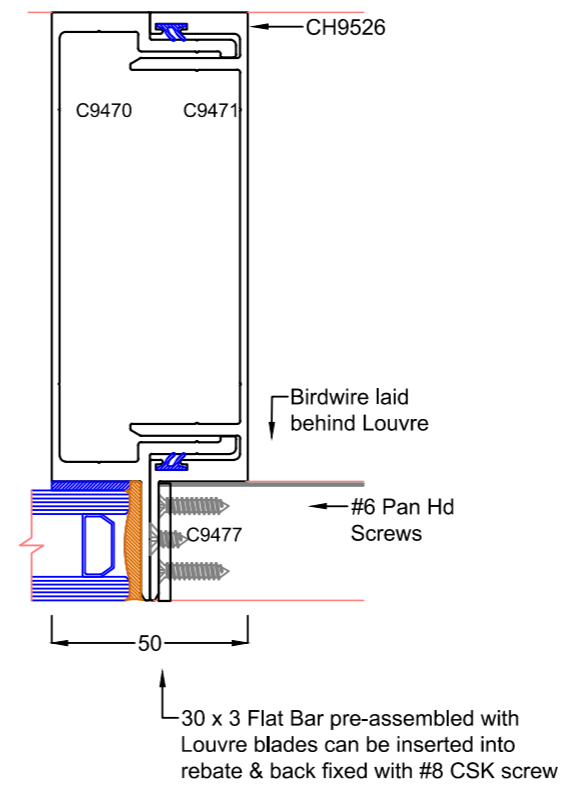
Max Spandrel Infil Sub Head & Subsill

Compatible with Max Sub Jamb, able to be screw assembled.
Used in a similar manner to other spandrel sub framing, this has been especially developed to suit a specific size extruded infill to cover the face of a slab



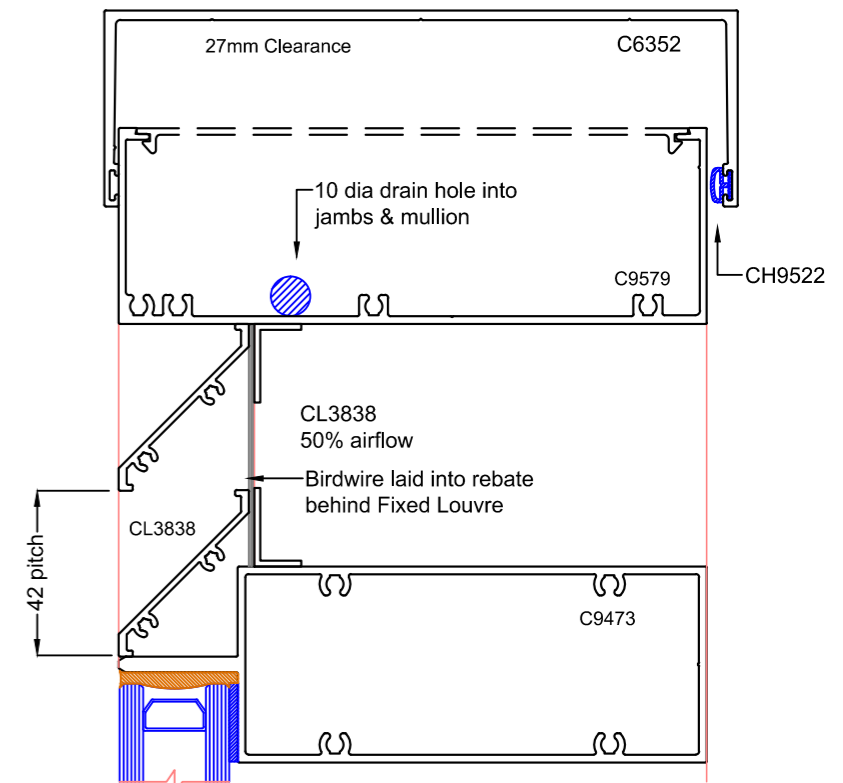
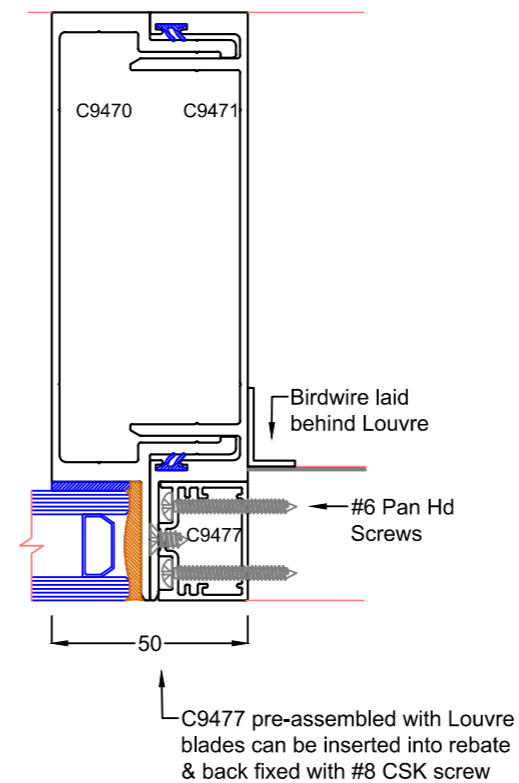
Louvres

CL1944 Louvre fits into the standard rebate. C9477 adaptor can be used for a number of purposes to allow other louvres, doors or other inserts to be fitted into the standard frame.



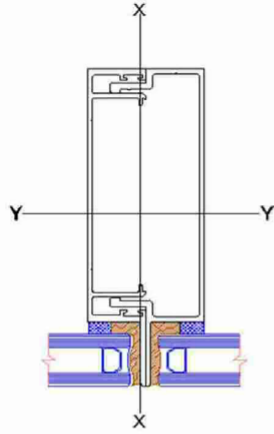
Alternative method of fitting

Detail depicts CL3838



Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate
Max Framing Systems: SG150 - 26
Mullion Structural Tables

Mullion Combination: Max SG150 LT C9493, C9494



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

Note the following:

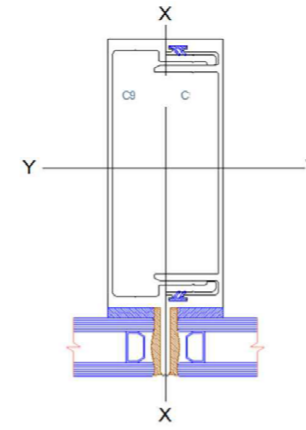
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ulltimate.

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)							
		800	1000	1200	1400	1600	1800	2000	2200
2200	S	6552	5381	4635	4137	3802	3583	3458	3416
	U	6552	5381	4635	4137	3802	3583	3458	3416
2400	S	5426	4437	3800	3368	3067	2858	2719	2639
	U	5426	4437	3800	3368	3067	2858	2719	2639
2600	S	4565	3720	3173	2797	2530	2338	2203	2112
	U	4565	3720	3173	2797	2530	2338	2203	2112
2800	S	3579	2918	2488	2193	1982	1829	1718	1639
	U	3892	3163	2689	2360	2124	1952	1825	1734
3000	S	2898	2356	2003	1759	1583	1453	1357	1286
	U	3356	2722	2307	2019	1810	1655	1539	1452
3200	S	2379	1931	1638	1433	1285	1175	1092	1029
	U	2922	2366	2001	1747	1561	1422	1316	1235
3400	S	1978	1602	1356	1184	1059	965	893	838
	U	2566	2075	1752	1526	1360	1235	1139	1065
3600	S	1662	1345	1136	990	883	802	740	692
	U	2271	1834	1546	1344	1195	1083	996	928
3800	S	1410	1140	962	837	745	675	621	
	U	2022	1632	1374	1192	1059	957	878	
4000	S	1207	975	821	713	634			
	U	1812	1461	1229	1065	944			
4200	S	1041	840	707	613				
	U	1632	1315	1105	957				
4400	S	904	729	613					
	U	1477	1189	999					
4600	S	791	637						
	U	1343	1080						
4800	S	695							
	U	1225							
5000	S	615							
	U	1122							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Mullion Structural Tables

Mullion Combination: Max 150 Struct DG C9470, C9471



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

Note the following:

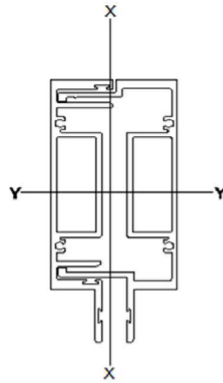
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ulltimate.

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)							
		800	1000	1200	1400	1600	1800	2000	2200
2200	S	8151	6695	5767	5148	4730	4458	4302	4250
	U	8151	6695	5767	5148	4730	4458	4302	4250
2400	S	6753	5522	4729	4191	3817	3557	3385	3285
	U	6753	5522	4729	4191	3817	3557	3385	3285
2600	S	5658	4626	3950	3482	3150	2912	2743	2629
	U	5684	4632	3950	3482	3150	2912	2743	2629
2800	S	4506	3673	3132	2761	2495	2303	2163	2064
	U	4848	3940	3349	2940	2646	2431	2273	2159
3000	S	3648	2966	2522	2214	1993	1829	1708	1618
	U	4182	3392	2875	2515	2255	2062	1917	1809
3200	S	2995	2431	2062	1805	1618	1479	1375	1295
	U	3642	2949	2495	2177	1945	1772	1640	1539
3400	S	2490	2017	1707	1491	1333	1215	1124	1055
	U	3200	2587	2184	1902	1696	1540	1420	1327
3600	S	2092	1693	1430	1246	1112	1010	932	871
	U	2832	2287	1928	1676	1491	1350	1242	1157
3800	S	1776	1435	1211	1053	937	850	782	729
	U	2523	2036	1714	1488	1321	1194	1095	1018
4000	S	1520	1227	1034	898	798	722	663	616
	U	2261	1823	1533	1329	1178	1063	974	902
4200	S	1311	1057	890	772	685	619		
	U	2037	1641	1379	1194	1058	953		
4400	S	1139	918	772	669				
	U	1845	1485	1247	1079				
4600	S	995	802	674					
	U	1677	1350	1133					
4800	S	875	705						
	U	1531	1231						
5000	S	774	622						
	U	1403	1128						
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Max™ SG150 STRUCTURAL GLAZED FRAMING & CURTAIN WALL - 31mm Rebate
Max Framing Systems: SG150 - 27
Mullion Structural Tables

Mullion Combination: Structural Shadescreen C9483, C9484



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)							
		S	U	S	U	S	U	S	U
2200	S	11350	9322	8030	7168	6586	6207	5990	5918
	U	11350	9322	8030	7168	6586	6207	5990	5918
2400	S	9421	7703	6598	5847	5325	4962	4722	4582
	U	9421	7703	6598	5847	5325	4962	4722	4582
2600	S	7852	6421	5520	4866	4402	4069	3833	3674
	U	7943	6473	5520	4866	4402	4069	3833	3674
2800	S	6254	5098	4348	3831	3463	3196	3002	2864
	U	6787	5516	4688	4116	3704	3403	3182	3023
3000	S	5063	4117	3500	3073	2766	2539	2371	2246
	U	5864	4756	4032	3528	3162	2891	2688	2537
3200	S	4157	3374	2861	2505	2246	2053	1908	1798
	U	5116	4143	3504	3058	2733	2489	2304	2162
3400	S	3456	2800	2370	2069	1850	1686	1560	1464
	U	4502	3640	3073	2676	2385	2166	1998	1867
3600	S	2904	2350	1985	1730	1543	1402	1294	1209
	U	3991	3223	2717	2362	2101	1903	1750	1630
3800	S	2464	1991	1680	1462	1301	1179	1085	1011
	U	3561	2873	2419	2100	1864	1685	1546	1436
4000	S	2109	1703	1435	1246	1108	1002	920	855
	U	3196	2577	2168	1879	1666	1503	1376	1275
4200	S	1819	1467	1235	1072	951	859	787	730
	U	2884	2323	1953	1691	1497	1349	1233	1140
4400	S	1580	1274	1071	928	823	742	679	628
	U	2615	2105	1768	1530	1353	1217	1111	1026
4600	S	1381	1113	935	810	717	645		
	U	2382	1916	1608	1390	1228	1104		
4800	S	1215	978	821	710	628			
	U	2177	1751	1469	1269	1120			
5000	S	1074	864	725	627				
	U	1998	1606	1346	1162				
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Glazing Methodology

It is possible to glaze the SG150 system in a number of ways - either as a site glazed or factory glazed system. When factory glazed, panels are assembled as individual units (glass & frame bonded panels) in a controlled environment. This allows for proper surface preparation & tape application procedures to be maintained as well as implementation of quality & process control programs. This product has been successfully glazed using 3M™ VHB™ Structural Glazing Tape or traditional double sided tape & structural silicone. If the outdoor temperature is below 15°C it is required that the assembled panels be kept in the warmer, controlled environment of the factory shop for 24 hours before exposing the panel to colder site temperatures.

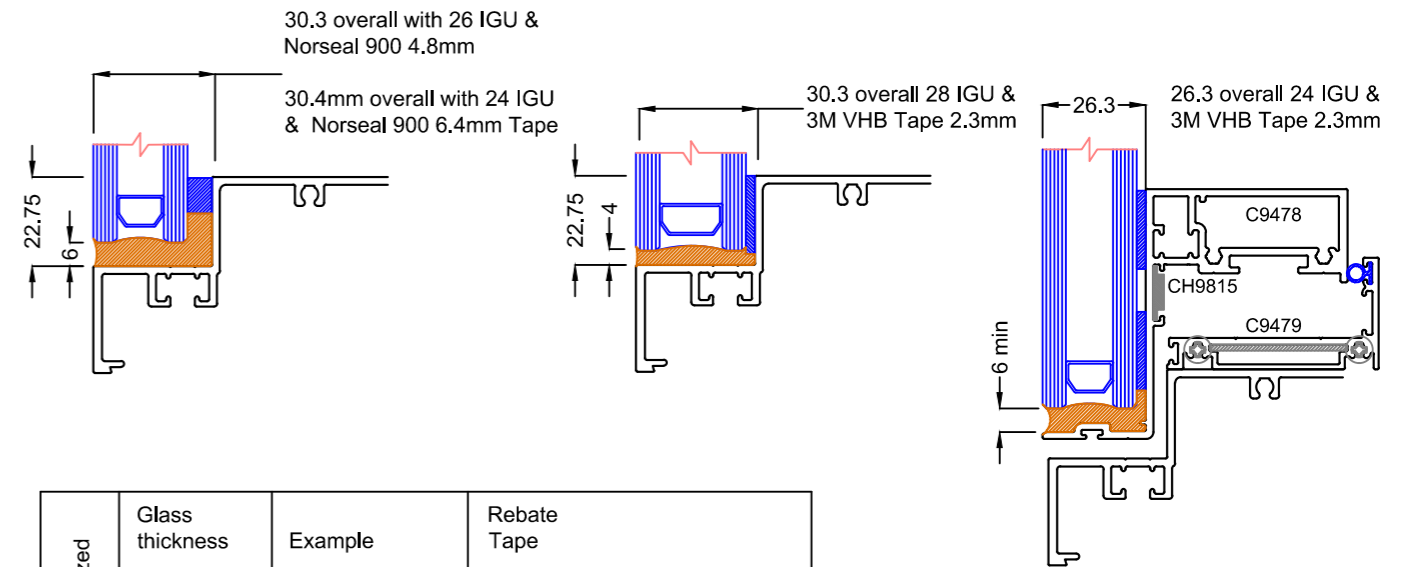
Note:

The use of 4 sided structural glazing requires great attention to detail in the glazing of frames. An instructional fabricators manual is available that gives an overview of both procedures however glazing methodology, glass cover & silicone bite should be referred to tape and silicone suppliers for suitability to the application.

Glazing Charts for Max SG150 Framing

The following chart has been prepared to depict suggested tape & wedge combinations for U-Max Structural Glazed framing.

Note that glass deduction sizes vary between glazing methods ie: structural silicone glazing & VHB tape. Note that the overall of frame & glass should be 150mm in combinations of IGU & tape as detailed below. This size is critical to the system operating within sub heads & sub sills as detailed.



Max SG150 Structural Glazed	Glass thickness	Example	Rebate Tape
	24mm	6/12/6	Norseal V900 Tape 12 x 6.4
26mm	6/14/6	Norseal V900 Tape 12 x 4.8	
	10/10/6	Norseal V900 Tape 12 x 4.8	
28mm	6/16/6	3M VHB Tape 18 x 2.3mm	
	10/12/6	3M VHB Tape 18 x 2.3mm	
C9478 Structural Glazed Sash (26.3 rebate)			
24mm	6/12/6	3M VHB Tape 18 x 2.3mm	