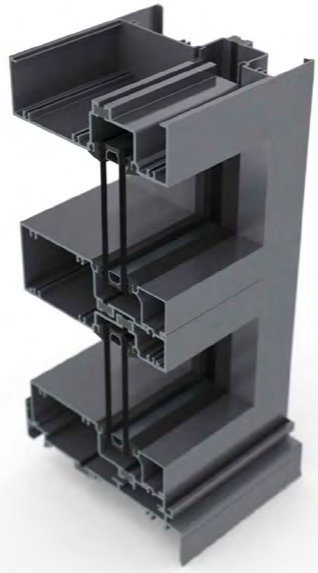


U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 1

U-MAX™ 150 Offset Double Glazed - 34mm Pocket



FEATURES:

- 150mm Frame Depth
- 60mm Sight Line generally
- Optional Low profile 44mm Outer Frame
- Glass Plane- 50mm Offset to align with 100 Centre Glaze
- Compatible with 150mm Centre Glaze & Front Glaze allowing glass in different planes
- Designed for Thermal Break Applications
- Can be offered Non-broken to maintain visual unity
- Compatible with other 150mm Max framing systems
- Accepts 24mm to 28mm IGU's
- Single Glazed Spandrel adaptor option
- 12mm Glass Bite in all configurations
- Eliminates ugly visible drain slots in the face of transoms
- External glazed only
- Awning & Casement sash options
- Truth Awning & Casement options
- Tilt & Turn Sash
- Multi Locking Awning & Casement options
- U-Max Sliding door compatible
- 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

FABRICATION:

- Easy Screw Flute Joinery Fabrication
- Simple Panelized Assembly

PRODUCT APPLICATIONS:

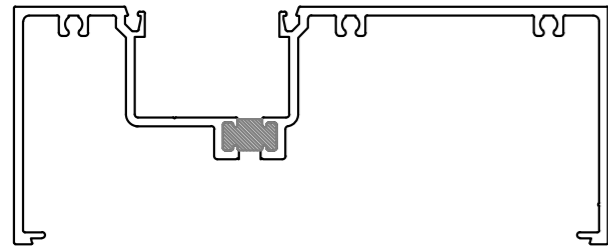
- Shopfront, Ribbon Windows or Punched Openings
- Generally Single Span, limited to 6.5 metre high applications

This system may also be ordered without polyurethane filled cavities for non-thermal applications & is completely compatible with other Max framing systems

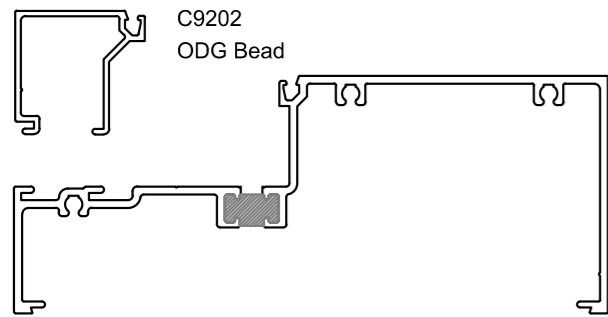
*Hobart Apartments, NRAS,
University of Tasmania,
U-MAX™ 150mm Offset Double
Glazed thermally broken frames
and custom fins*



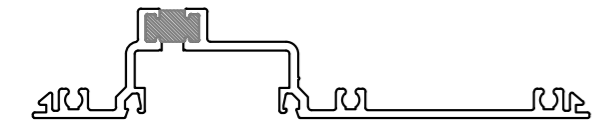
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 2
Extrusion ID



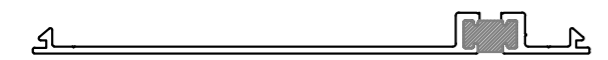
C9300U
150 x 60 ODG frame



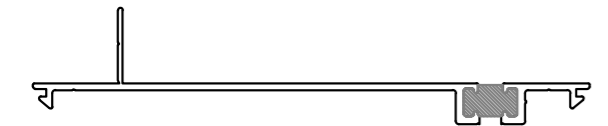
C9301U
150 x 60 ODG Sill



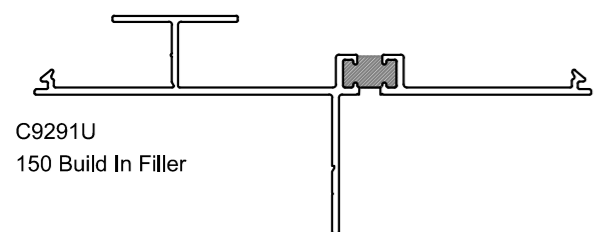
C9302U
150 ODG Pocketed filler



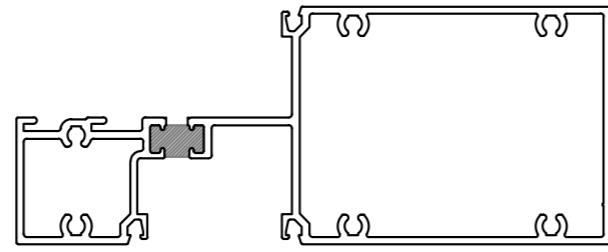
C9303U
150 Flat Filler



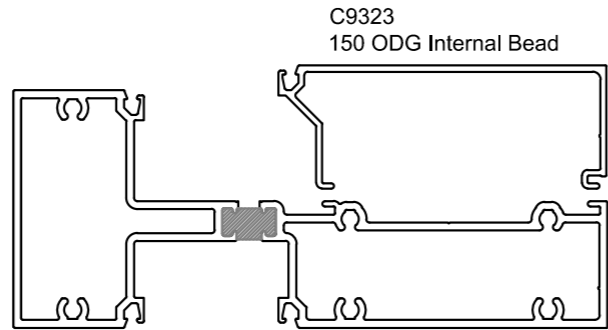
C9304U
150 Nailing Fin



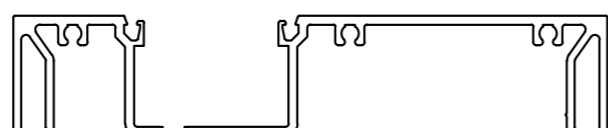
C9291U
150 Build In Filler



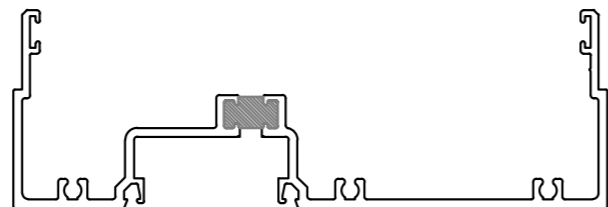
C9305U
150 x 60 ODG Transom



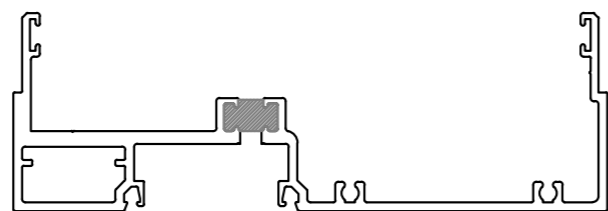
C9322U
150 ODG Internal Sill



C9306U
150 ODG Deep Mullion

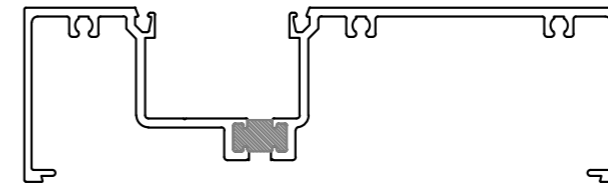


C9307U
150 ODG Shallow Mullion

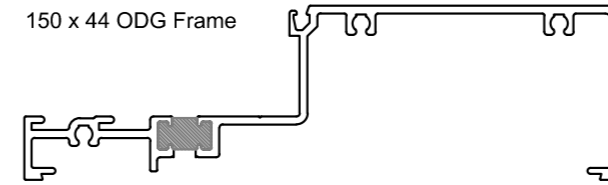


C5312U
150 ODG Shade Male Mullion

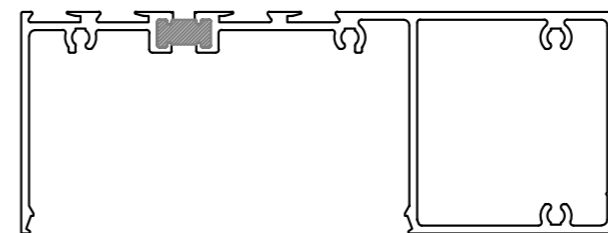
C9323
150 ODG Internal Bead



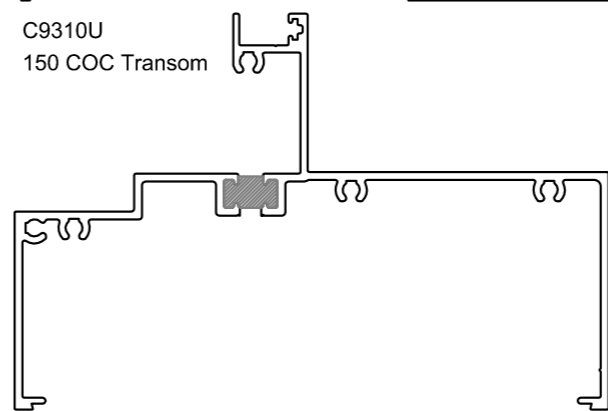
C9308U
150 x 44 ODG Frame



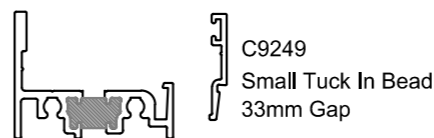
C9309U
150 x 44 ODG Sill



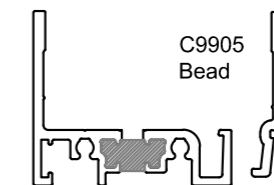
C9310U
150 COC Transom



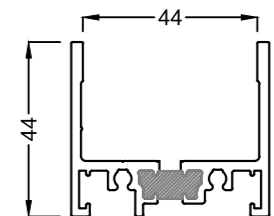
C9327U
Truth 150 x 60 Head/Sill



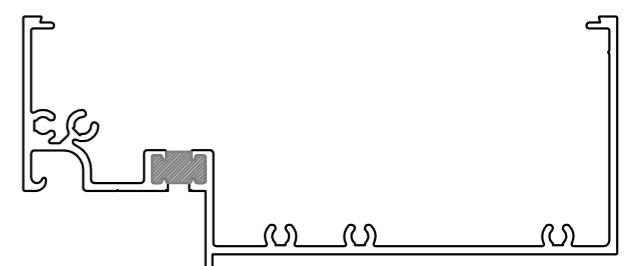
C9249
Small Tuck In Bead
33mm Gap



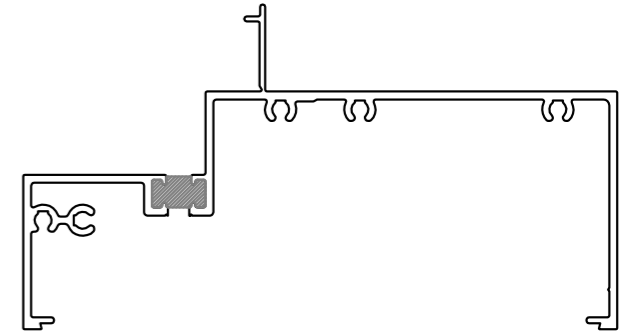
C9905
Bead



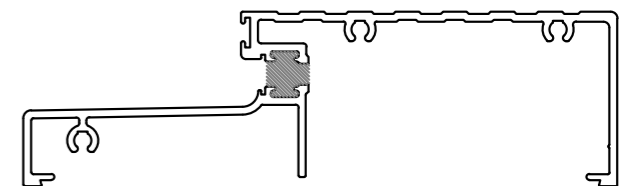
C9903U
50 x 44mm Glazing Channel



C9298U
Hinge Head 150 x 60



C9299U
Winder Sill 150 x 60



C9314U
150 x 44 Threshold O/Out



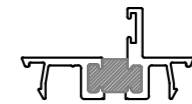
C9218U
100 Flush Filler



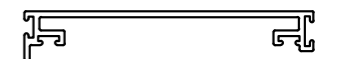
C9219
Spandrel Adaptor
19mm Pocket



C9232
Hinge Backing Plate



C9231U
50mm Door stop

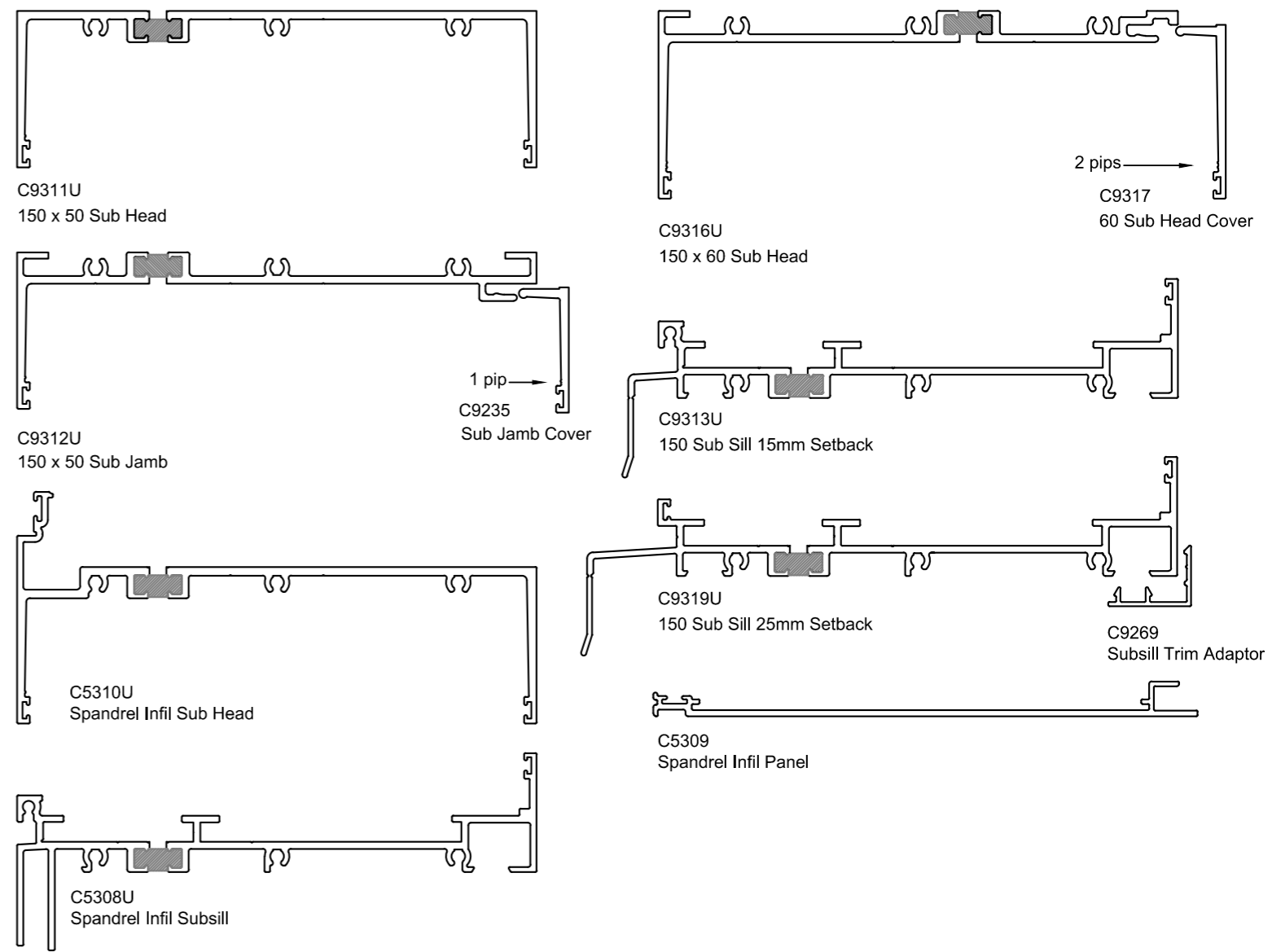
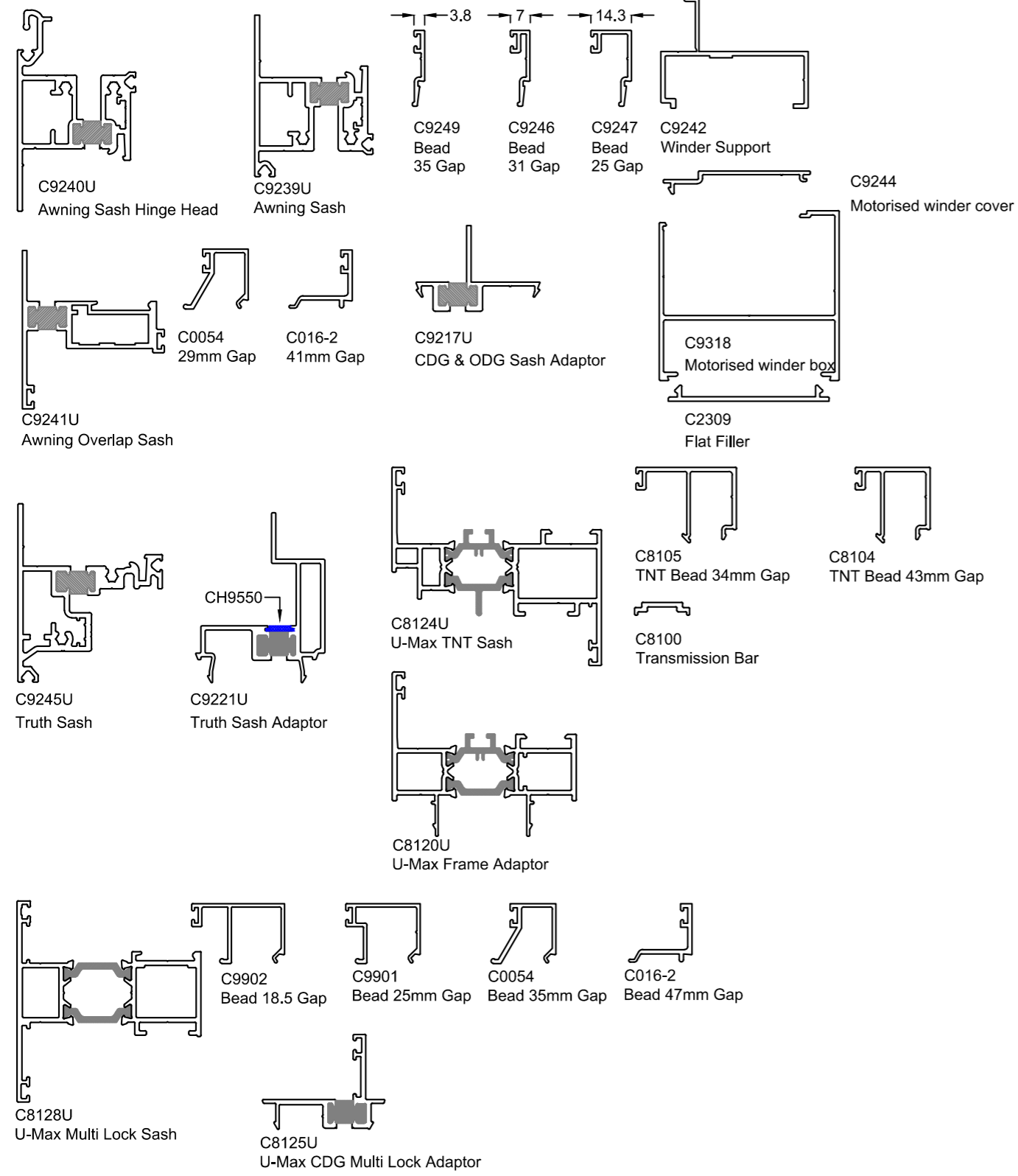


C9290
Plant On Door Stop

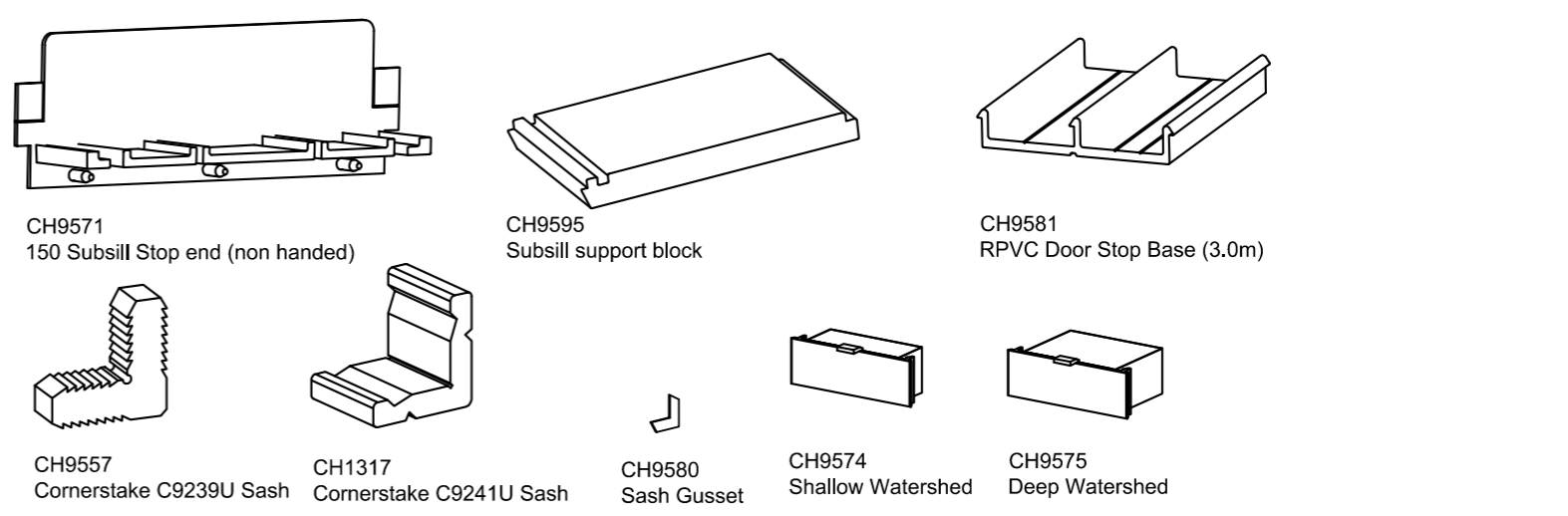
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

U-Max Framing Systems: U150ODG - 3

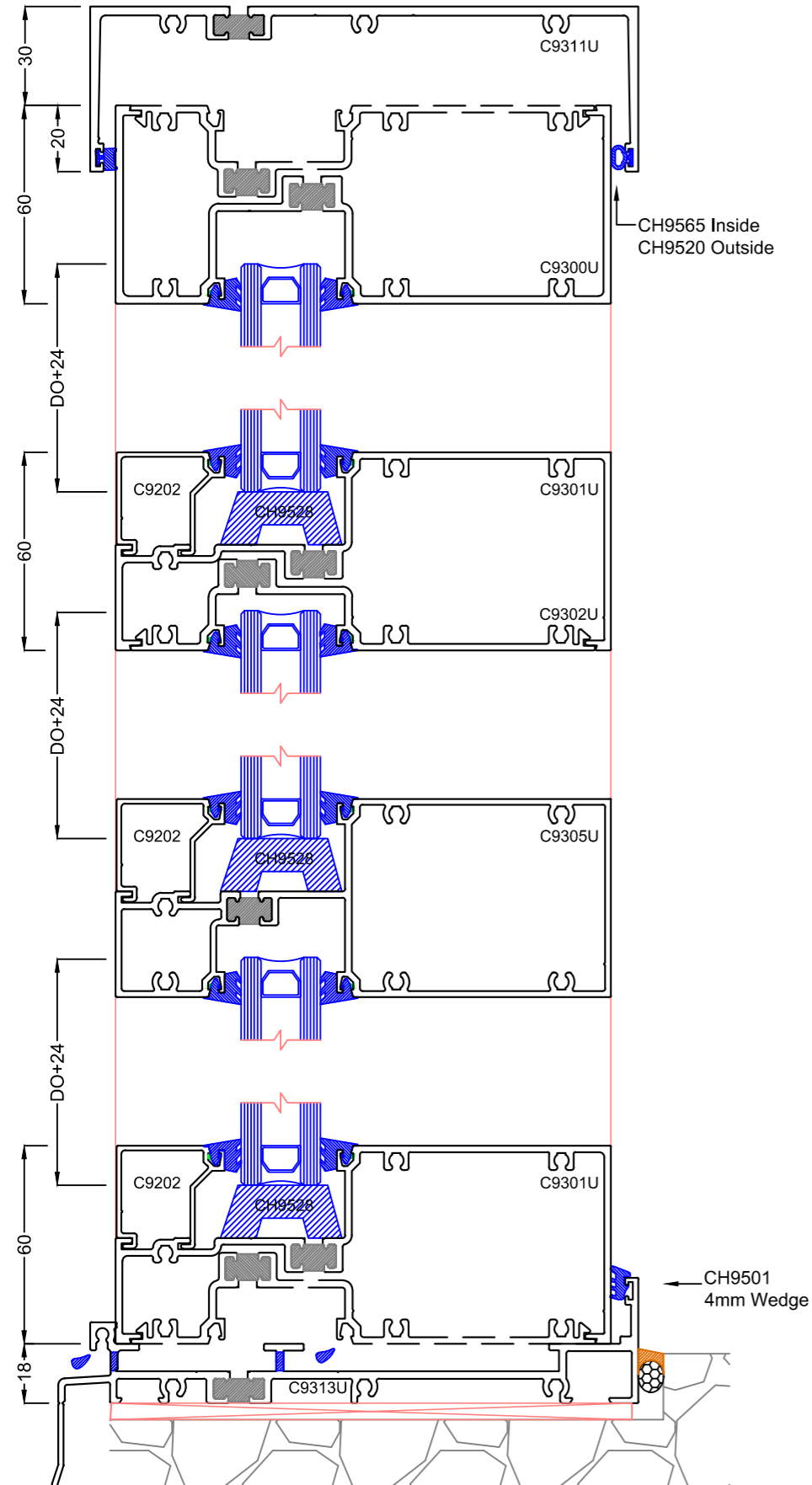
Extrusion ID



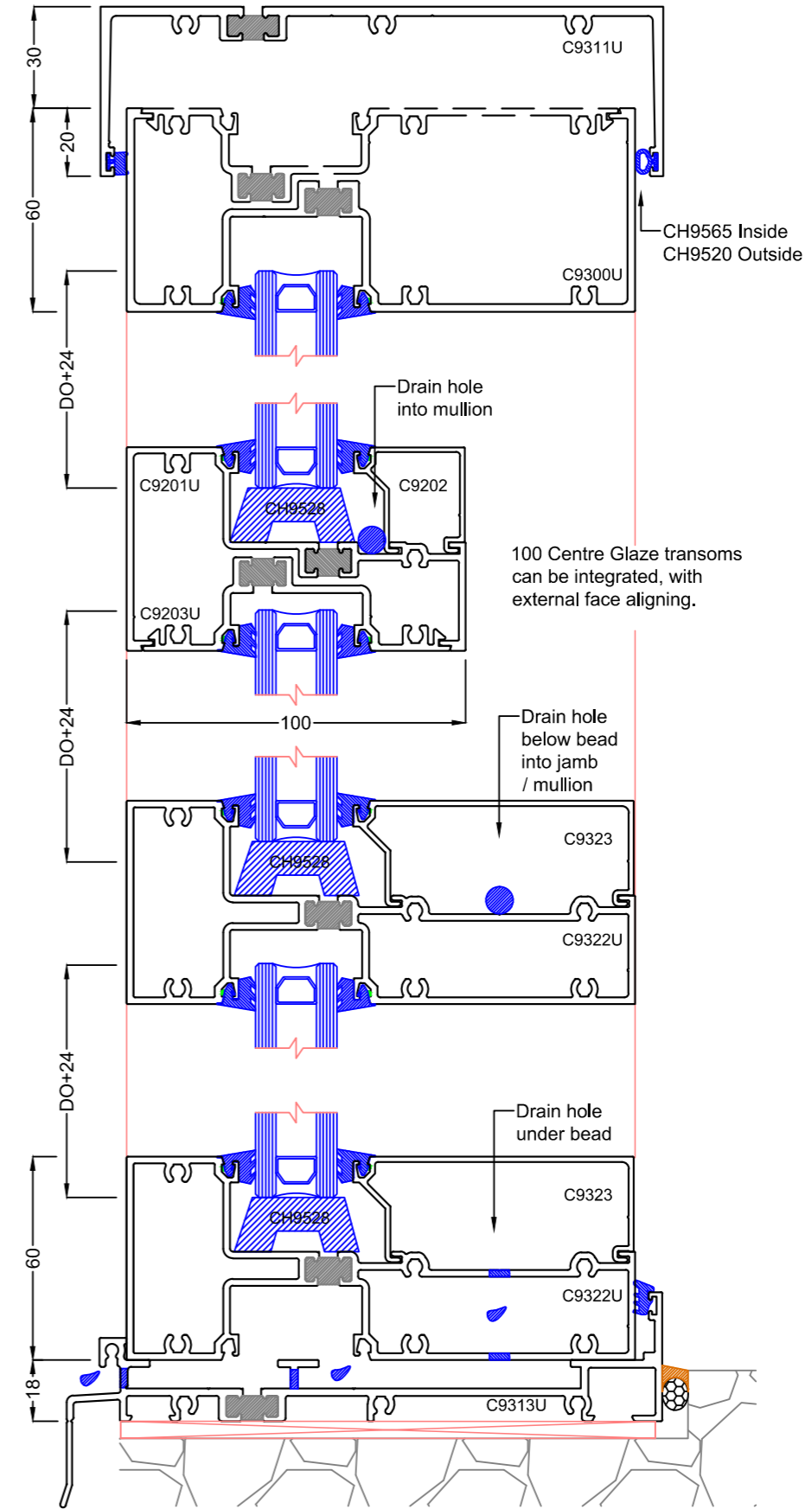
Component ID



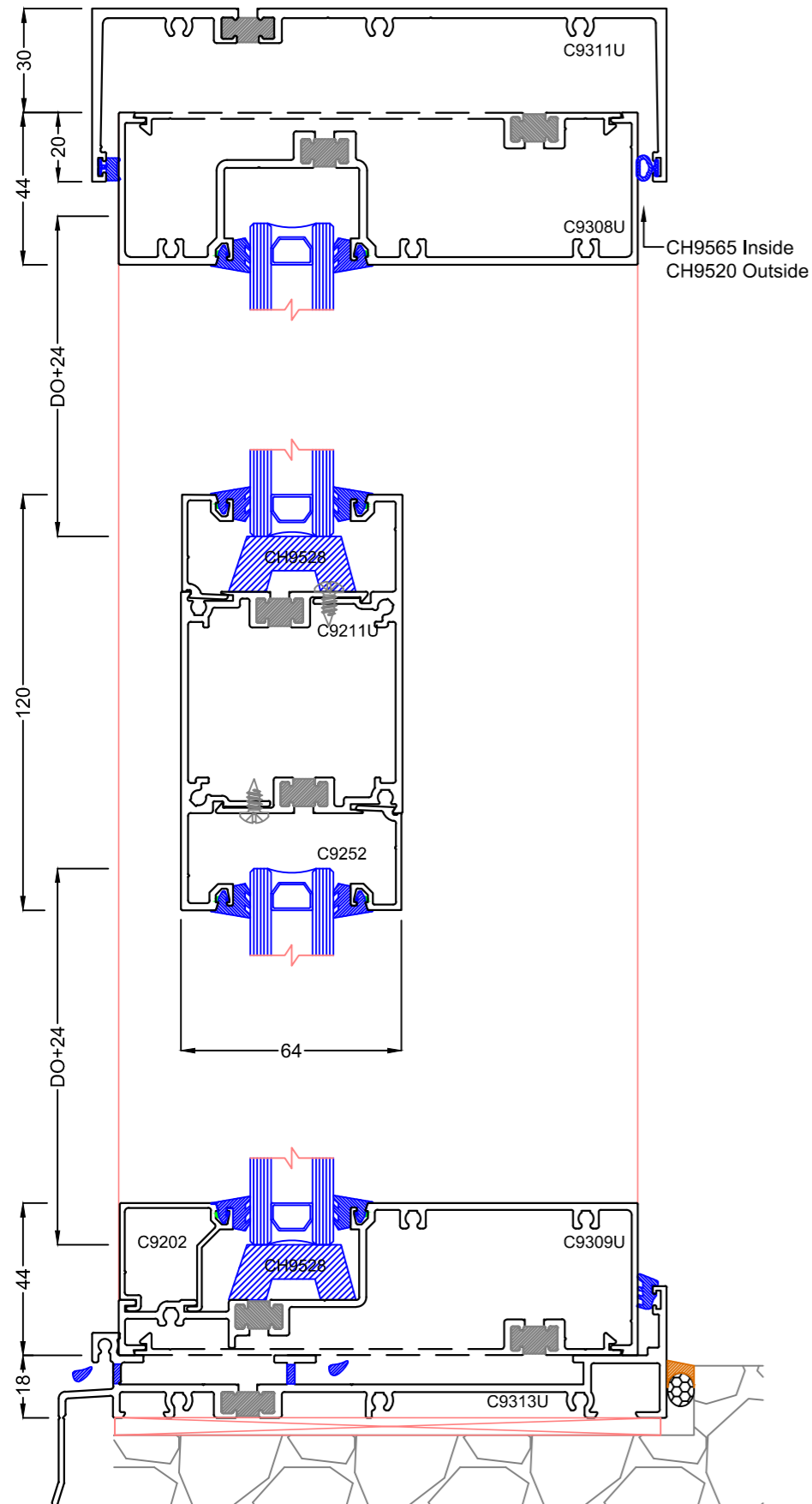
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 4
60mm Head & Sill External Glazed



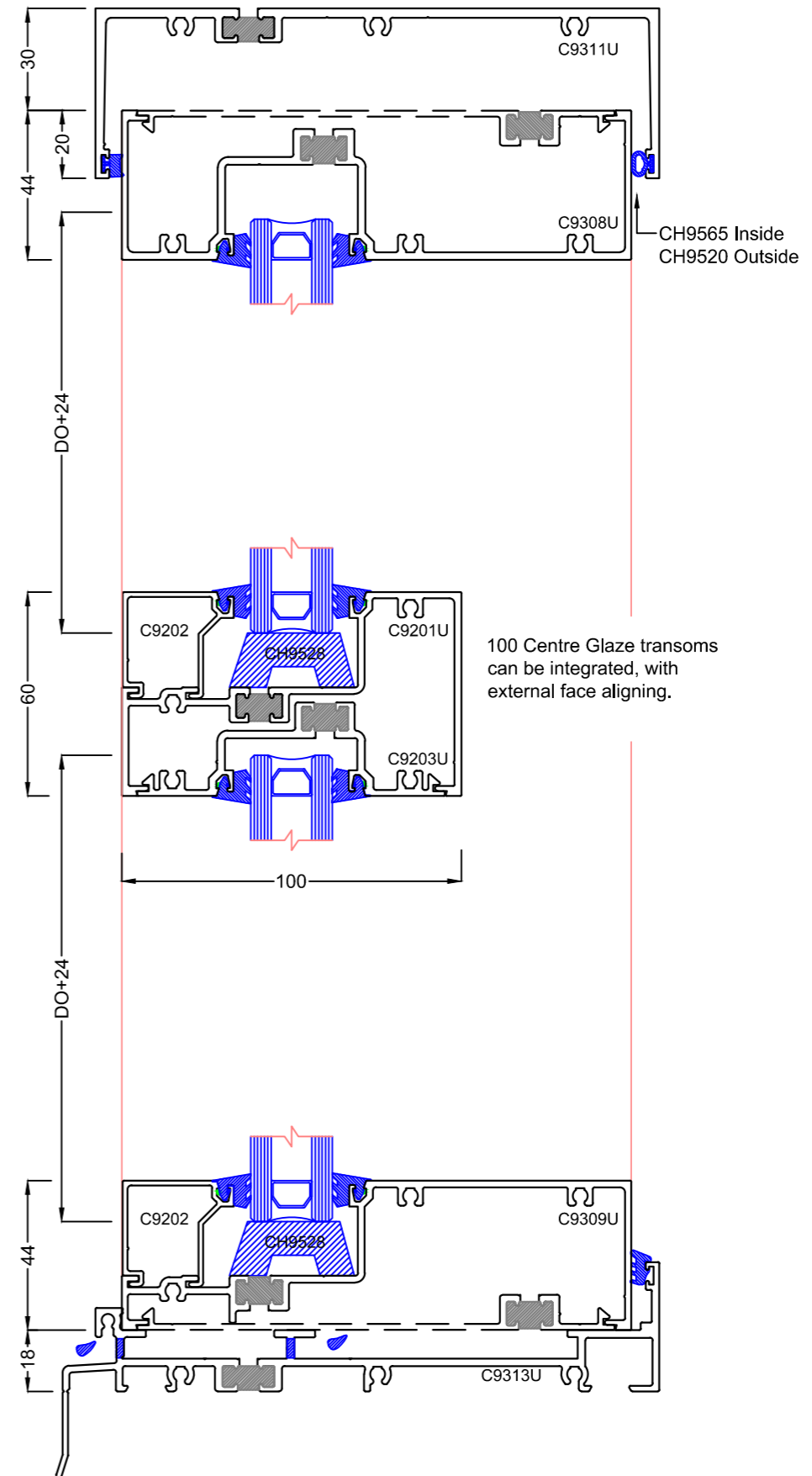
60mm Head & Sill - Internal Glazed



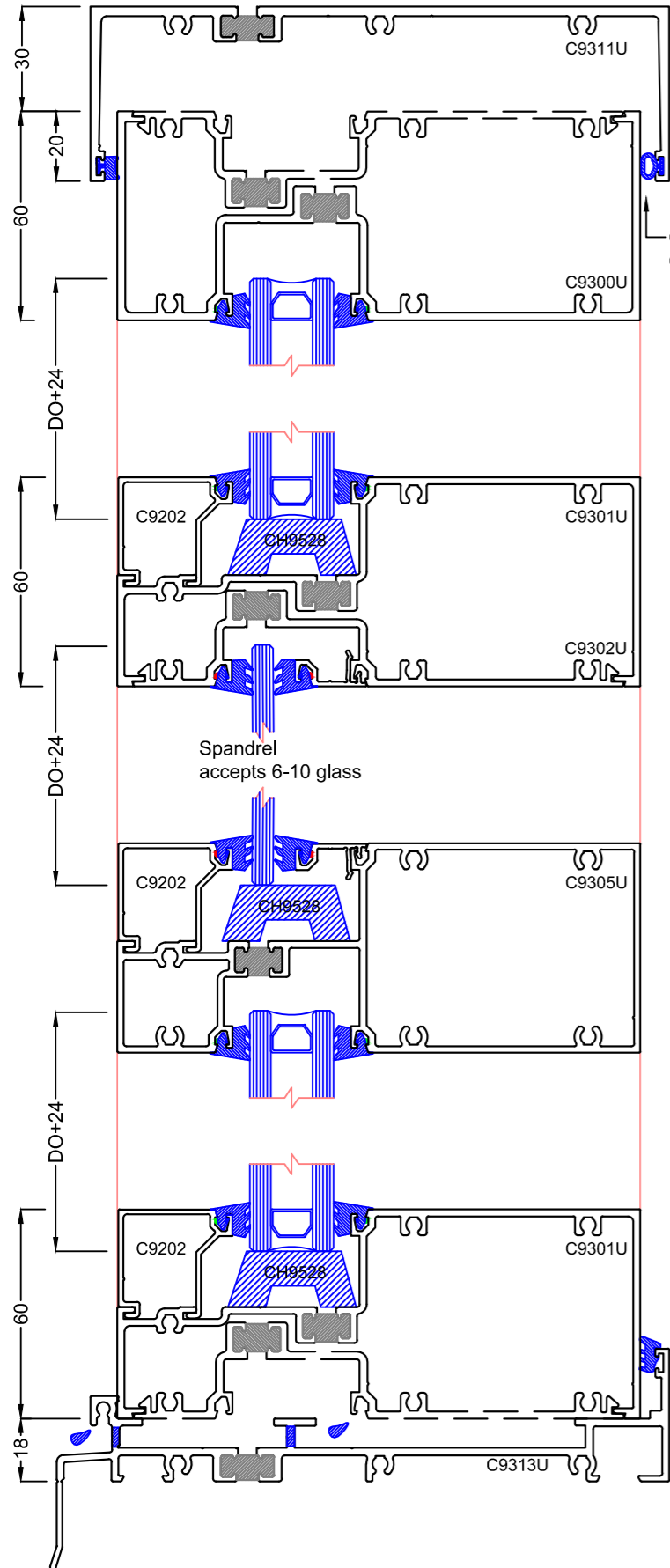
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 5
44mm Head & Sill with midrail



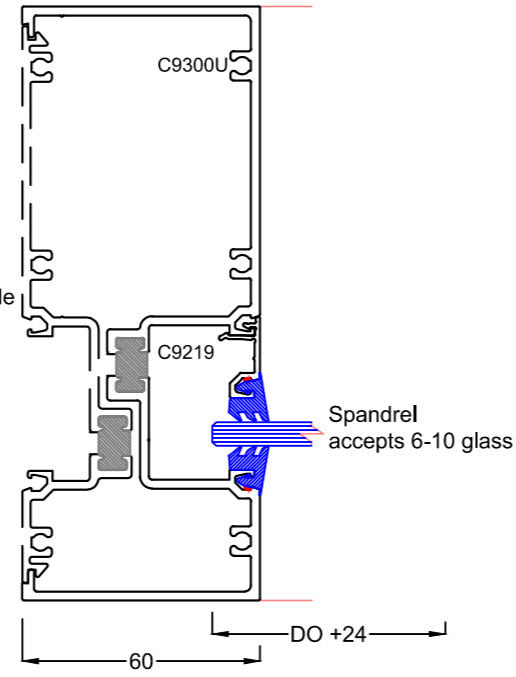
44mm Head & Sill with 100 Centre Glaze Transom



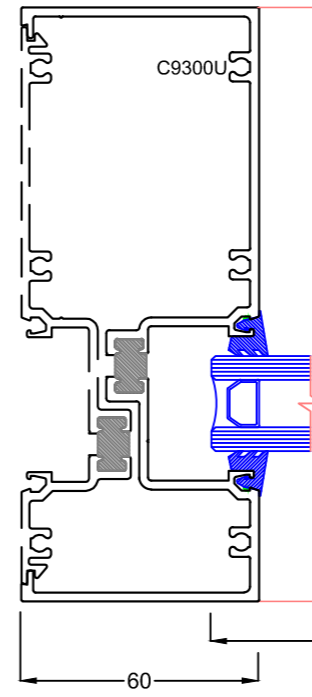
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 6
60mm Head & Sill - Single glazed Spandrel



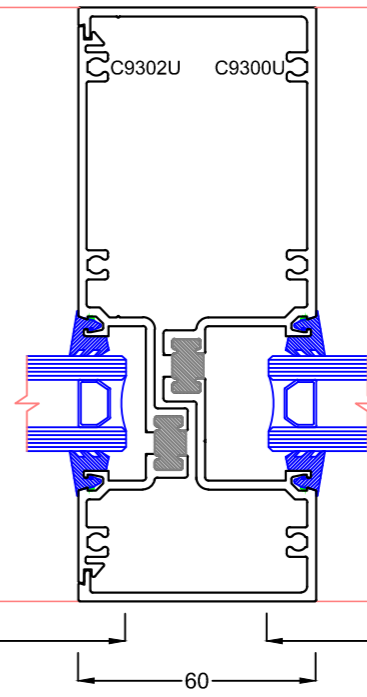
60mm Jamb with Spandrel Adaptor



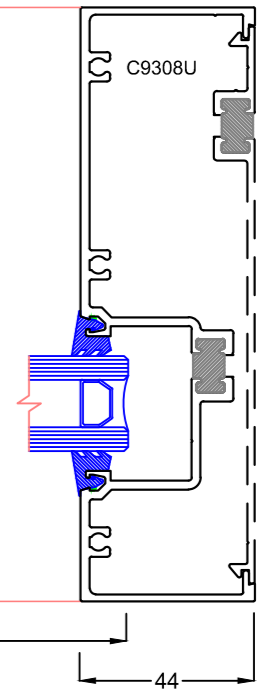
60mm Jamb



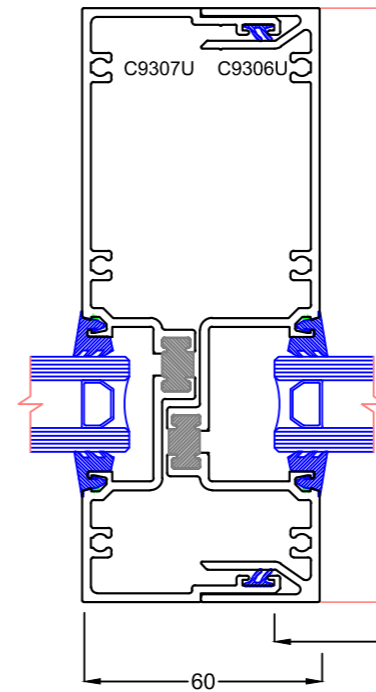
Standard Mullion



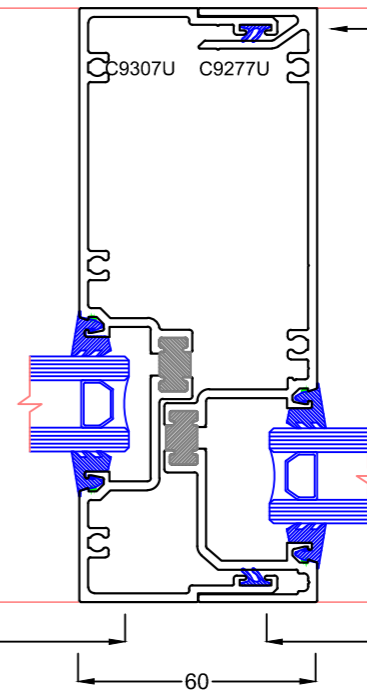
44mm Jamb



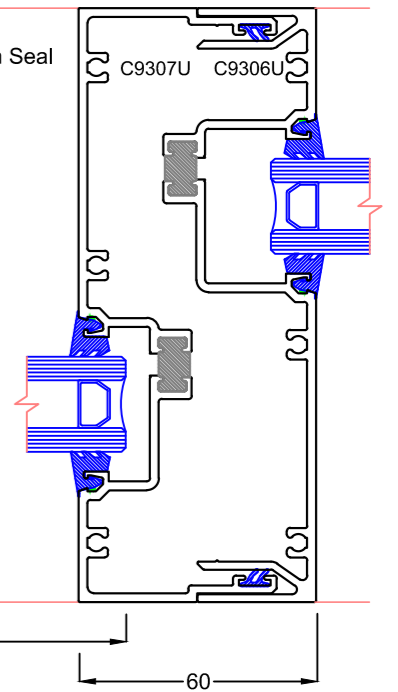
Standard Split Mullion



Offset/Front Mullion



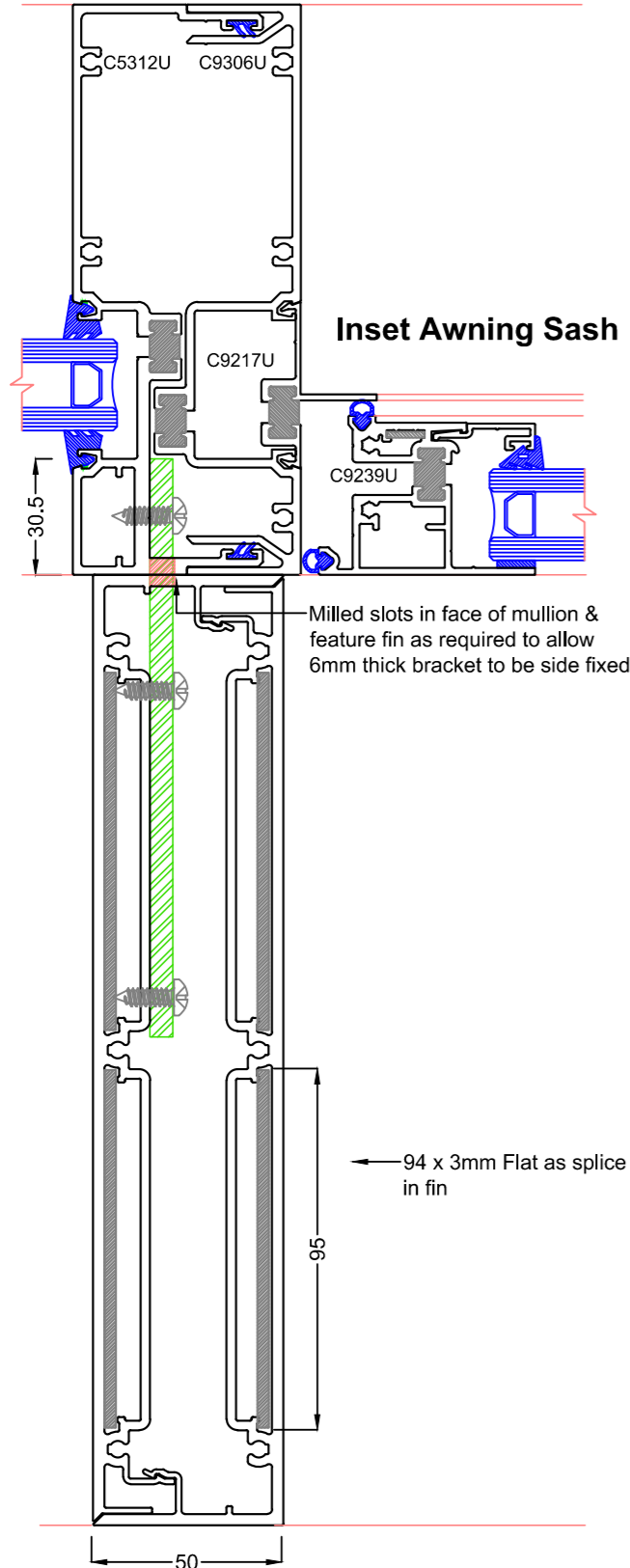
Offset/Offset Reversed



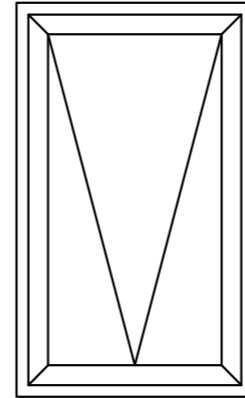
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 7

Feature Fin Mullion detail

Offset glazing allows an area in front of the glazing pocket where a bracket can be fitted in order to attach a feature fin. It is difficult to do this in front glazed framing & thus this product uniquely allows a framing system to offer this ability.



46mm Overlap Awning Sash



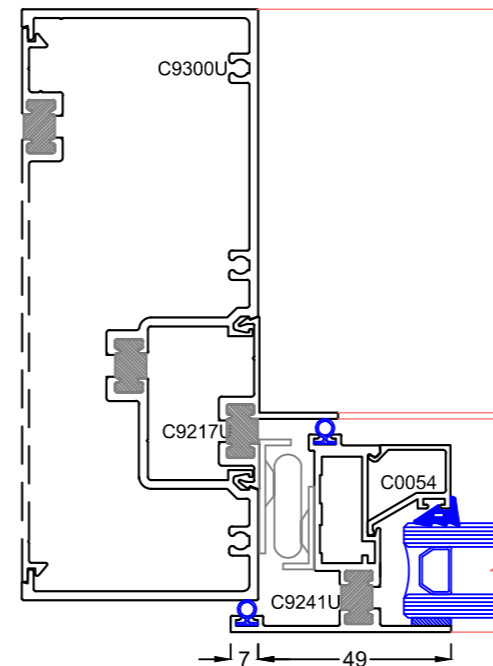
The Overlap Sash depicted requires awning stays but also elegantly suits the hinge head & winder sill for a lower profile appearance.

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

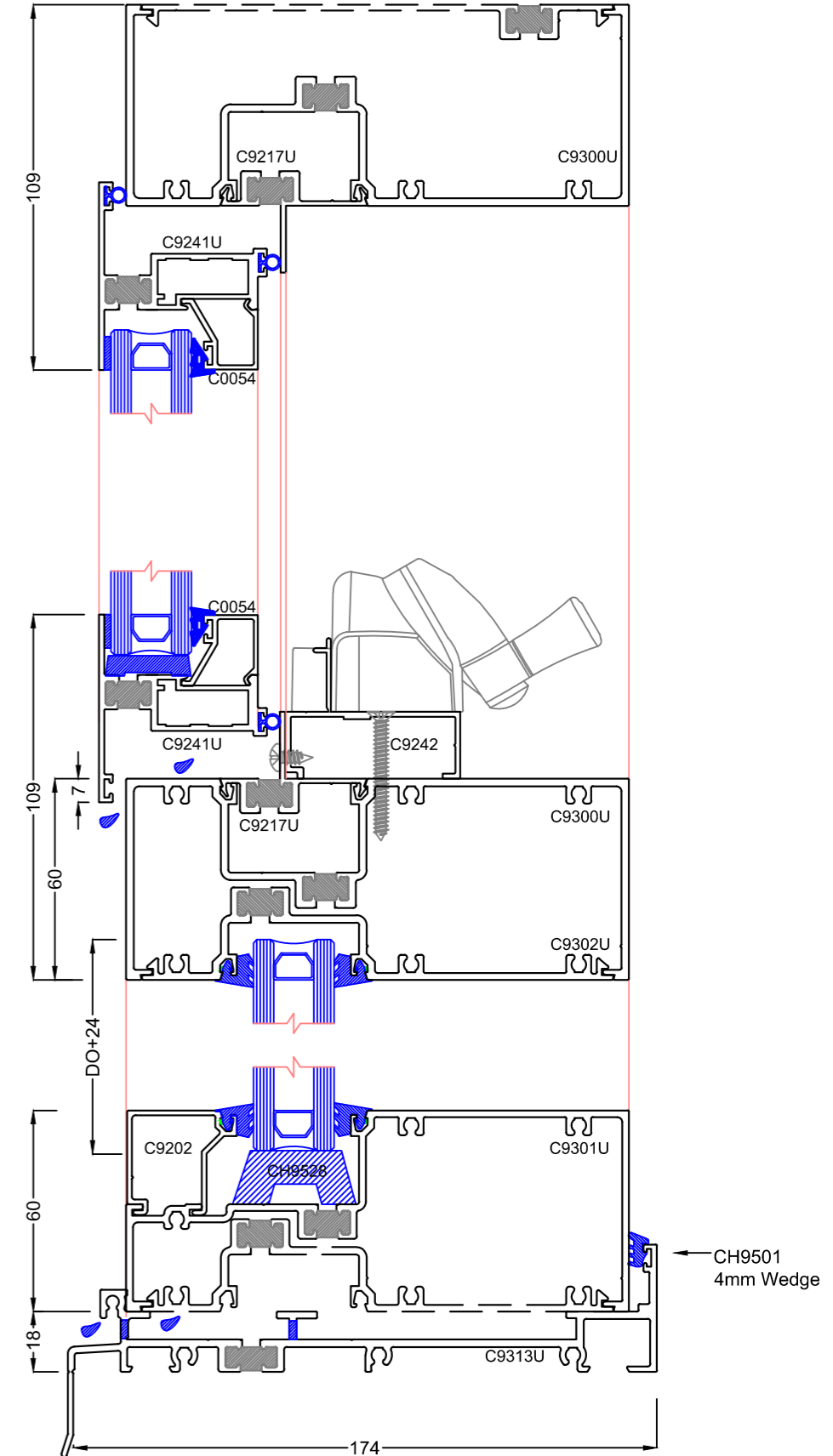
- Max Sash Height: 1600mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass: 6mm - 35mm

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

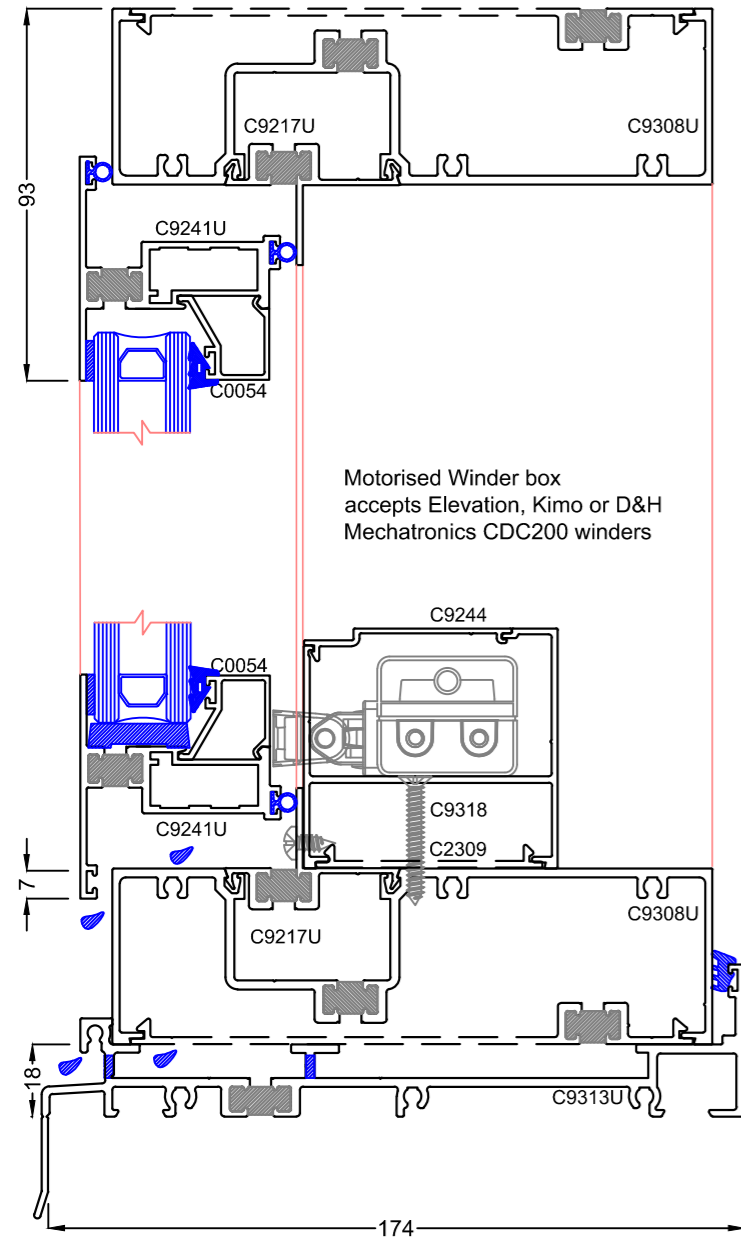
60mm Jamb



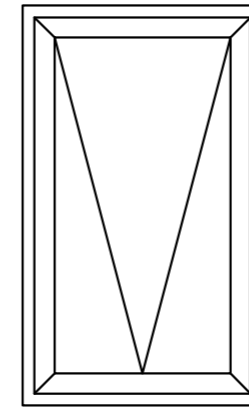
60mm Head & Sill



U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 8
44mm Head & Sill, Motorised Winder



Inset Awning Sash

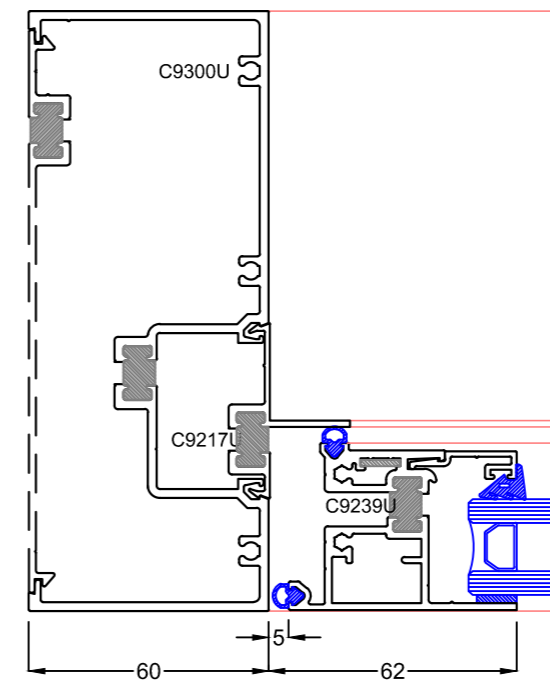


Maximum Sash weights generally are 30kg for a single chain winder & 70kg for a dual chain winder & 70kg with stays.

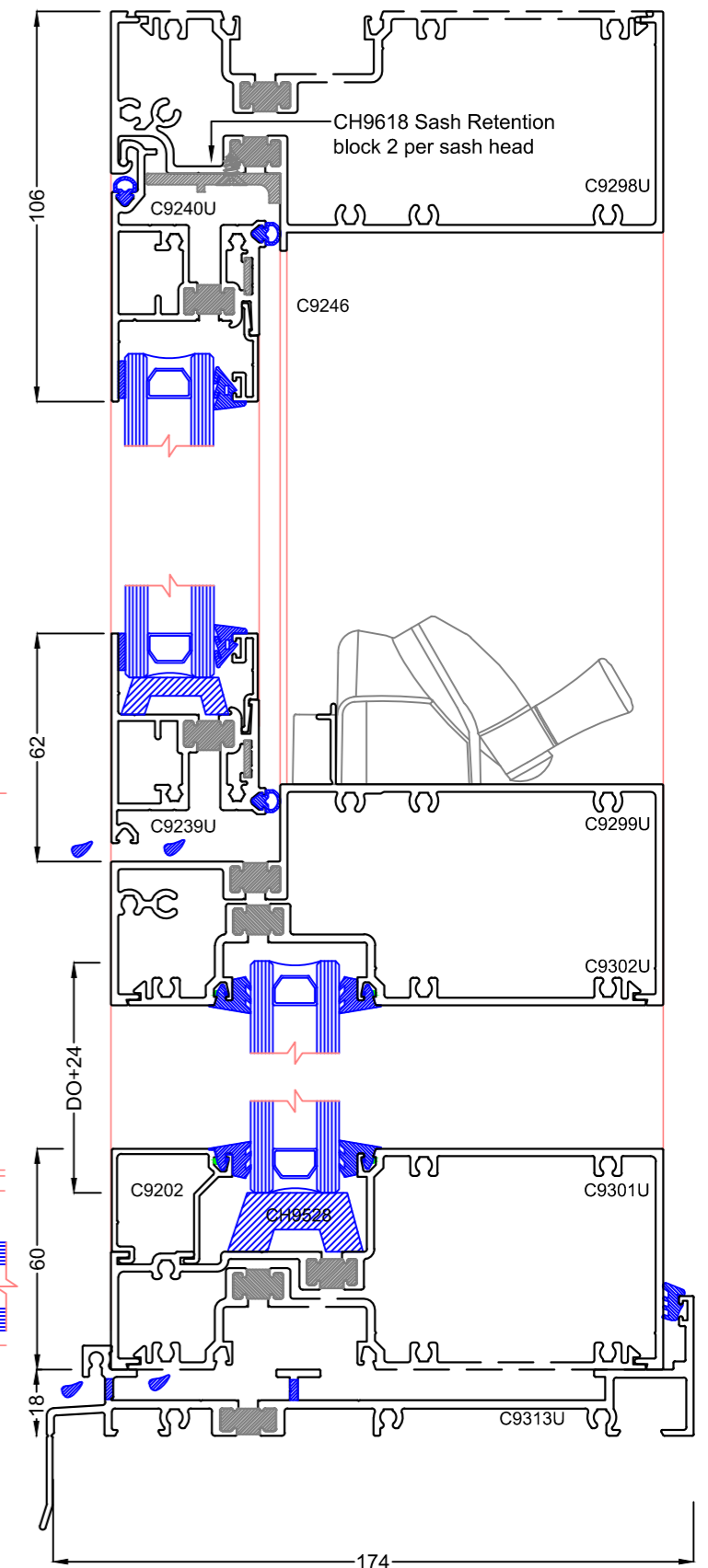
- Max Sash Height: 1600mm
- Min Sash Width: 450mm
- Max Sash Width: 1200mm
- Glass: 6mm - 28mm

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

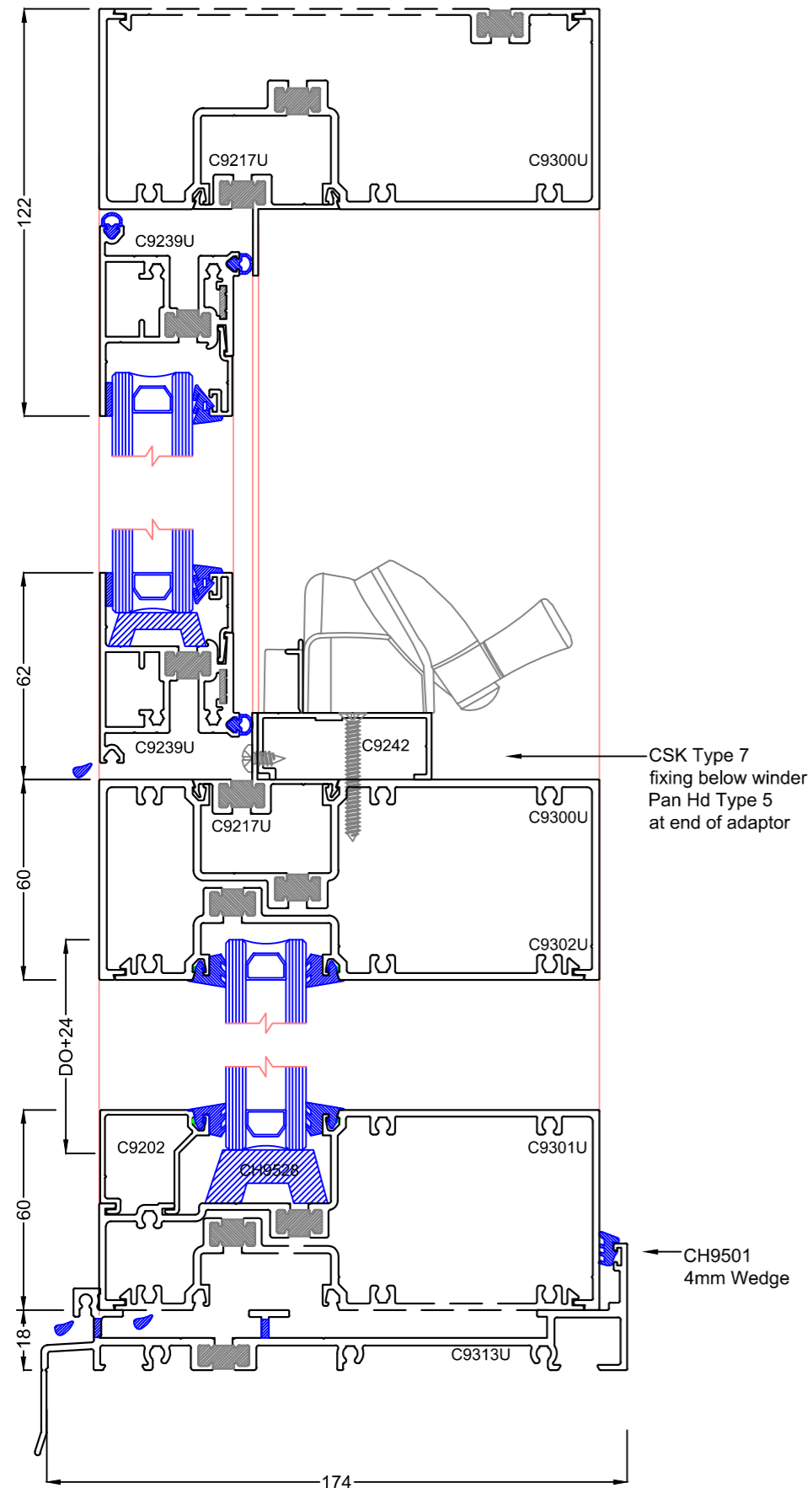
60mm Jamb



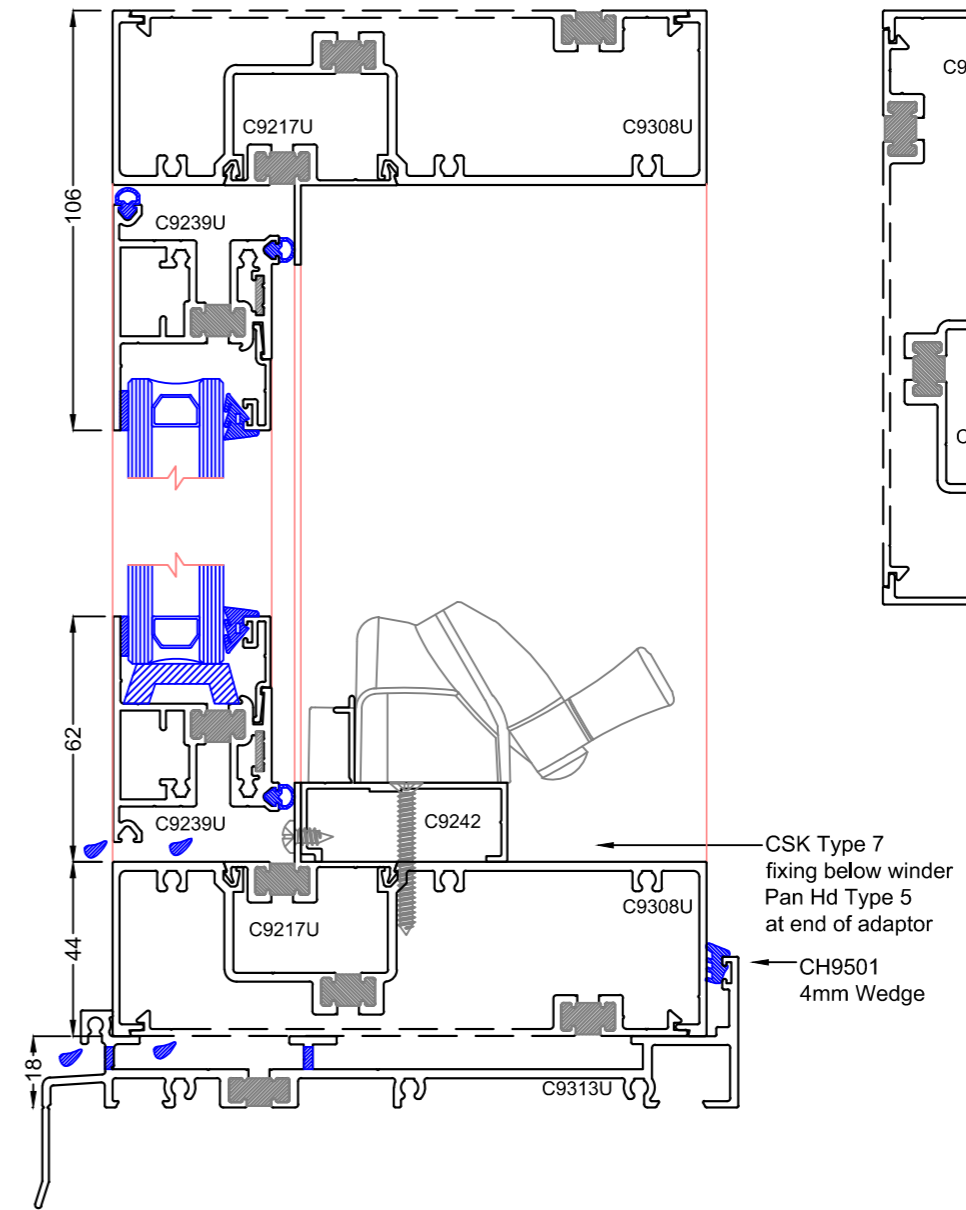
60mm Hinge Head & Winder Sill Transom



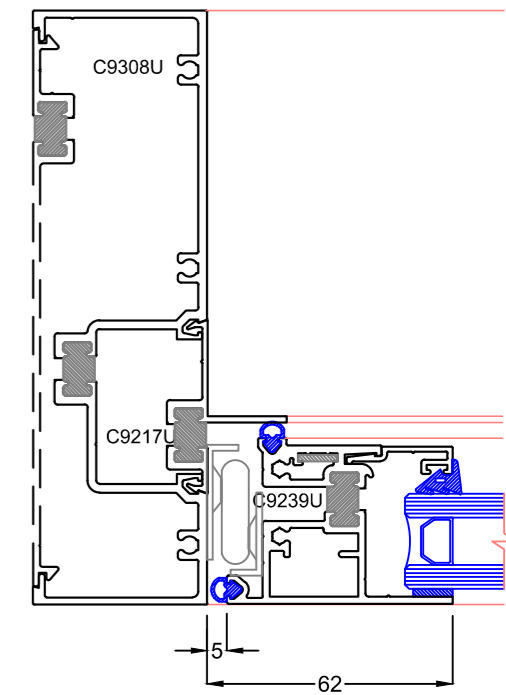
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 9
Inset Awning Sash on Stays with 60mm Head & Sill



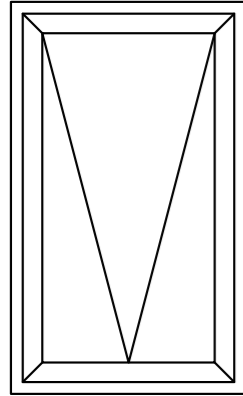
Alternative 44mm Head & Sill



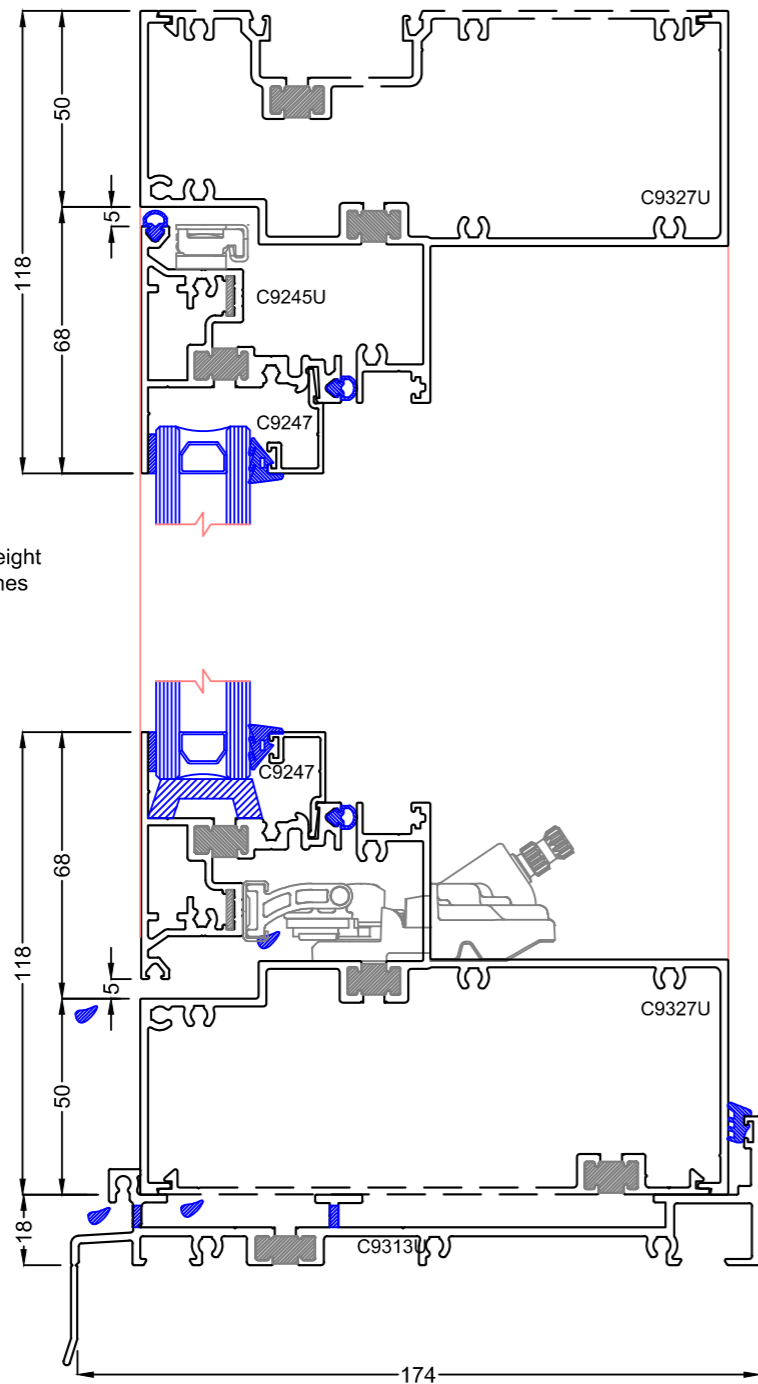
44mm Jamb



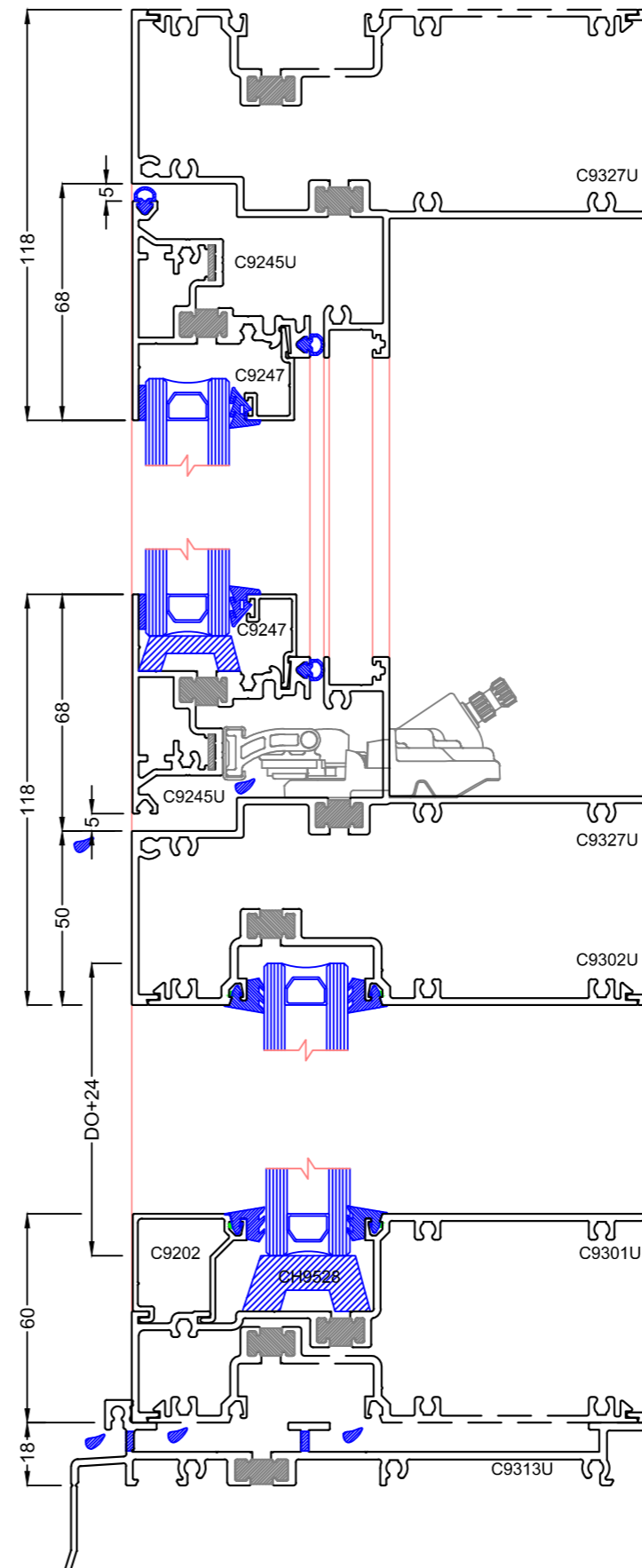
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 10
Truth Awning Sash **60mm Head & Sill**



- Maximum sash weights generally up to 100kg, limited by the hardware.
- Maximum sash height 2100mm
 - Sash width dependant on sash height
 - Multi-lock should be used on sashes over 1600mm high.
 - Glass 6mm - 38mm
- Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

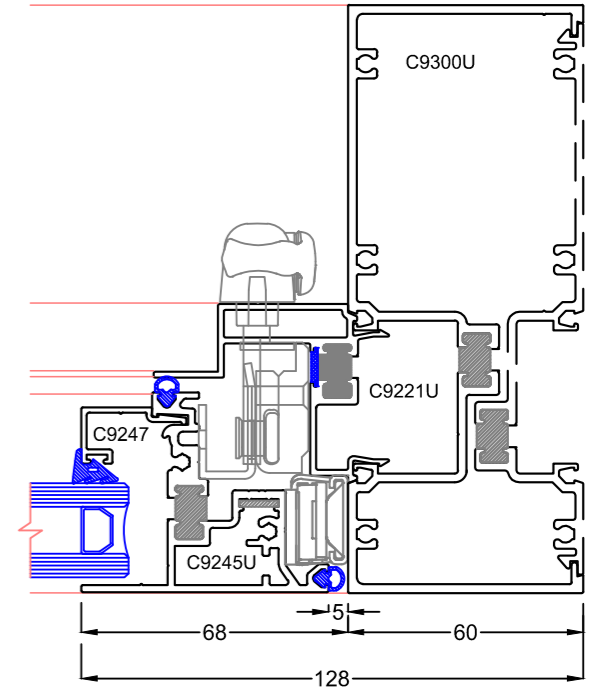


Truth Transom Awning Sash



Truth Awning Jamb Detail

Right Hand Jamb shown to illustrate multi locking handle, used generally for sashes over 1600mm



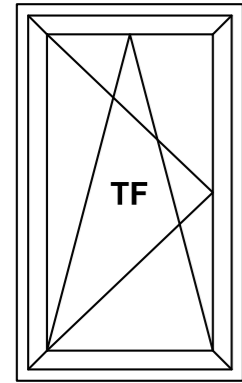
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

U-Max Framing Systems: U150ODG - 11

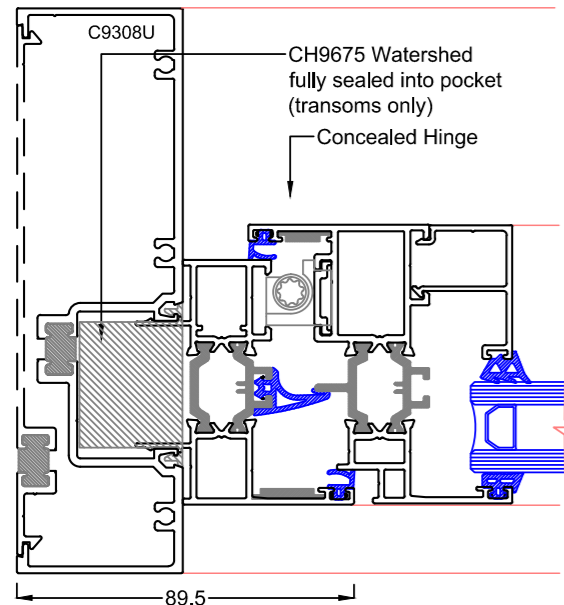
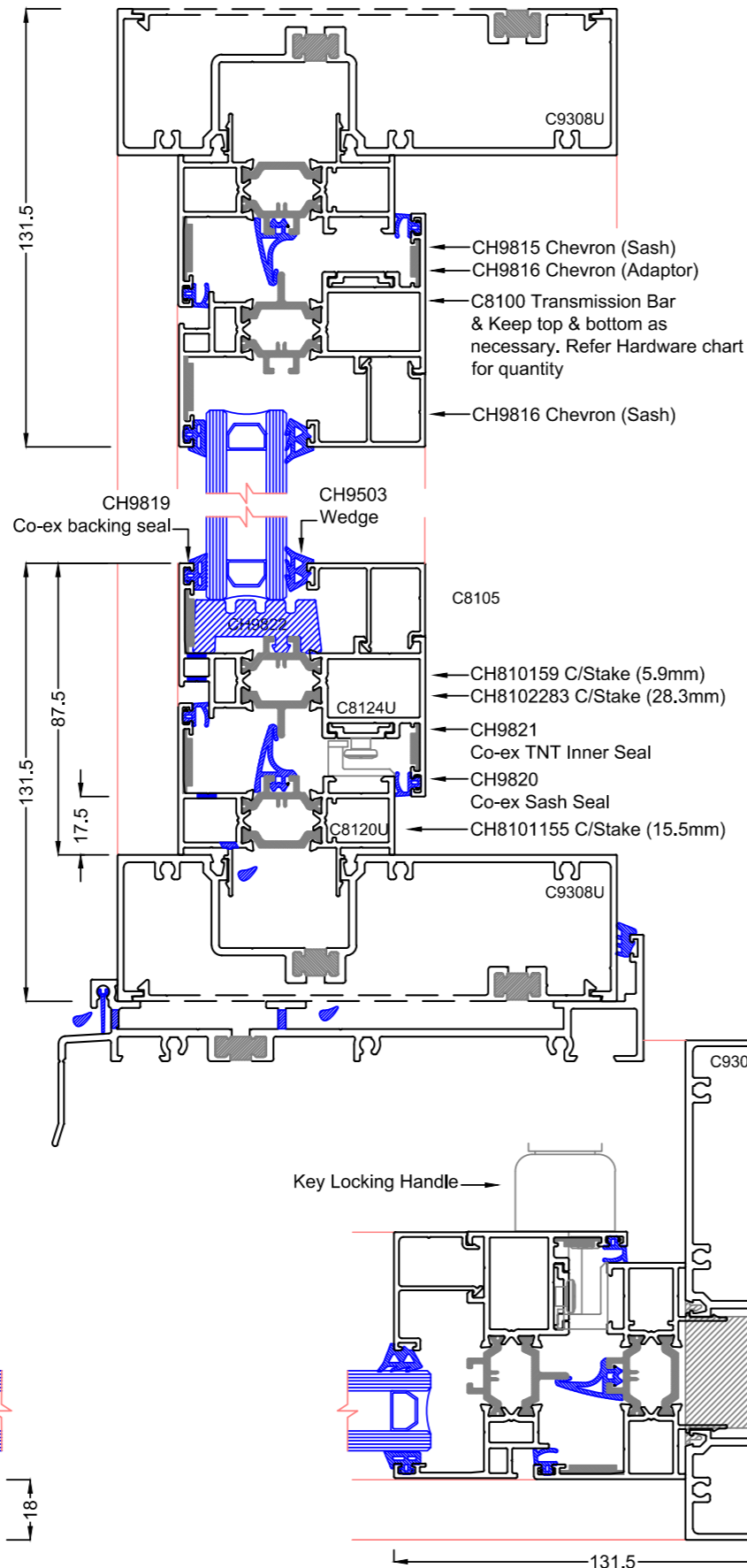
Tilt & Turn Sash (Tilt First)

44mm Frame shown for clarity, C9300U 60mm frame can also be used

44mm Head & Sill

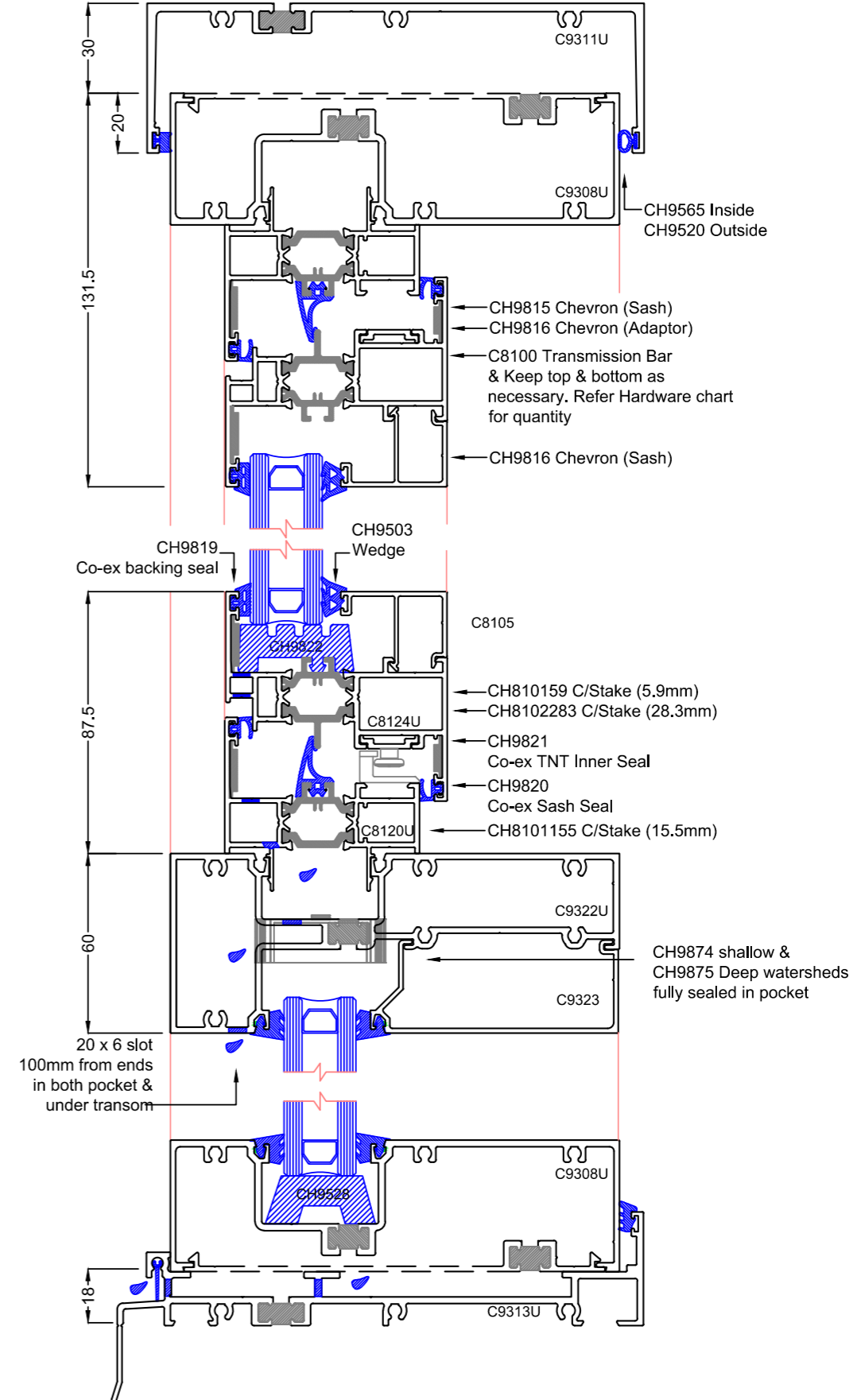


- Maximum Sash weights generally are 150kg with concealed hardware.
 - Heavier hardware options are available
 - Handle Operated key locking
 - Initial tilt in, then key override to hinge as standard function
 - Sash height must exceed Sash width - a tilt only solution may allow this.
 - Min Sash Height: 555 (590 daylight opening)
 - Min Sash Width: 500 (590 daylight opening)
 - Max Sash Width: 1300 (1335 daylight opening)
 - 150kg sash weight
 - Generally suited to 24-28mm IGU
- Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.



Tilt & Turn Sash with drained transom

44mm Frame shown for clarity, C9300U 60mm frame can also be used

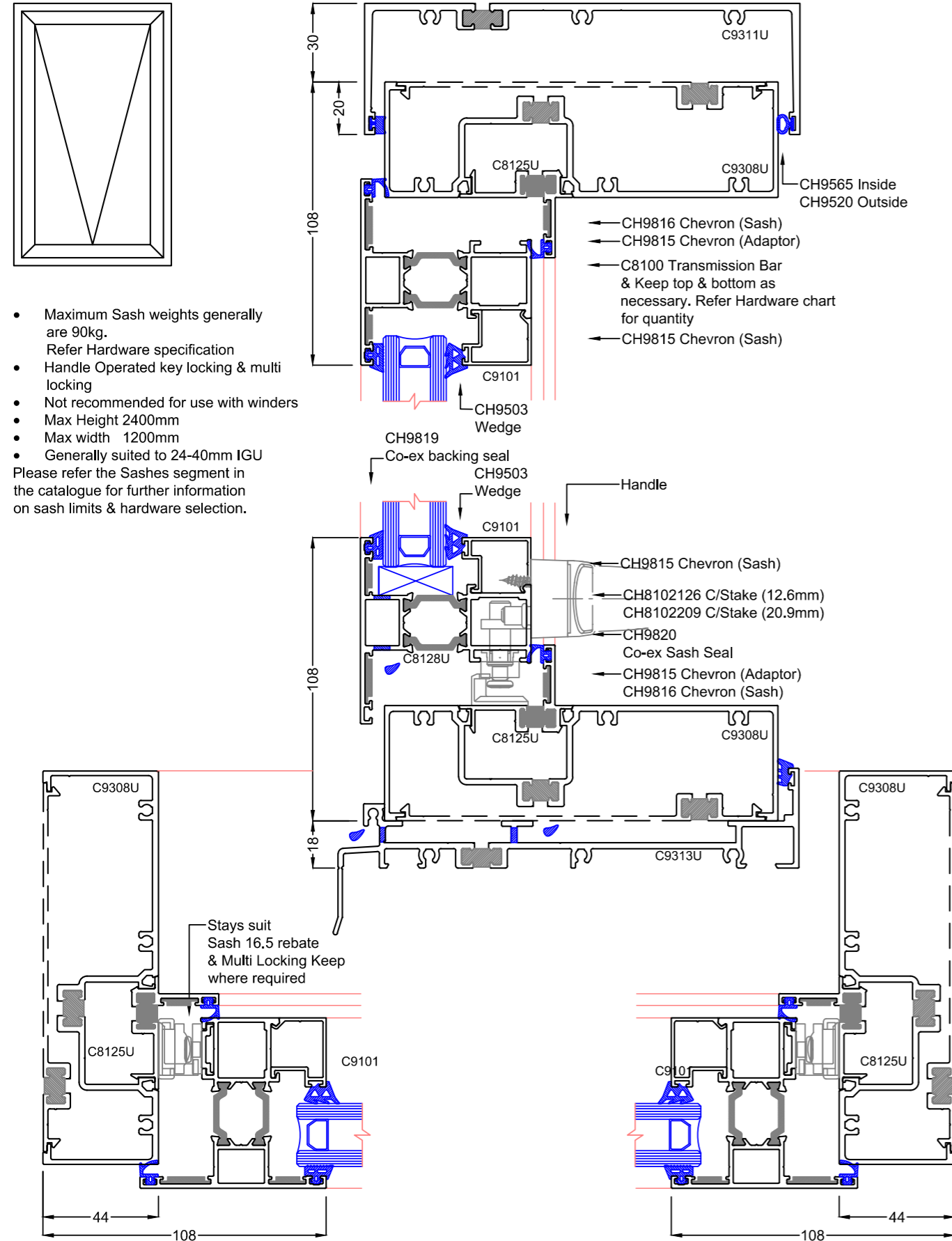


U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

U-Max Framing Systems: U150ODG - 12

Multi Locking Awning Sash 44mm Head & Sill

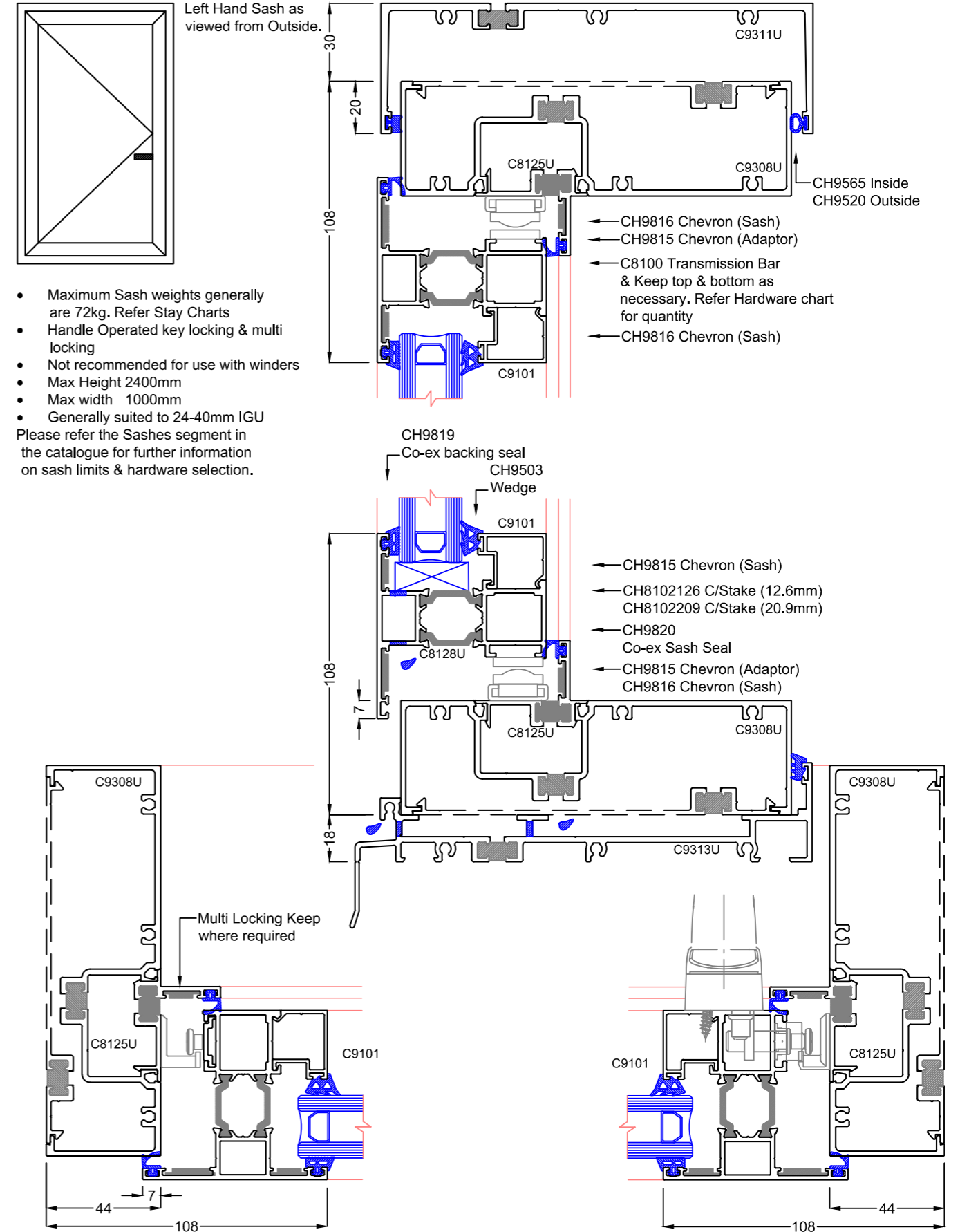
44mm Frame shown for clarity, C9300U 60mm frame can also be used



- Maximum Sash weights generally are 90kg. Refer Hardware specification
 - Handle Operated key locking & multi locking
 - Not recommended for use with winders
 - Max Height 2400mm
 - Max width 1200mm
 - Generally suited to 24-40mm IGU
- Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

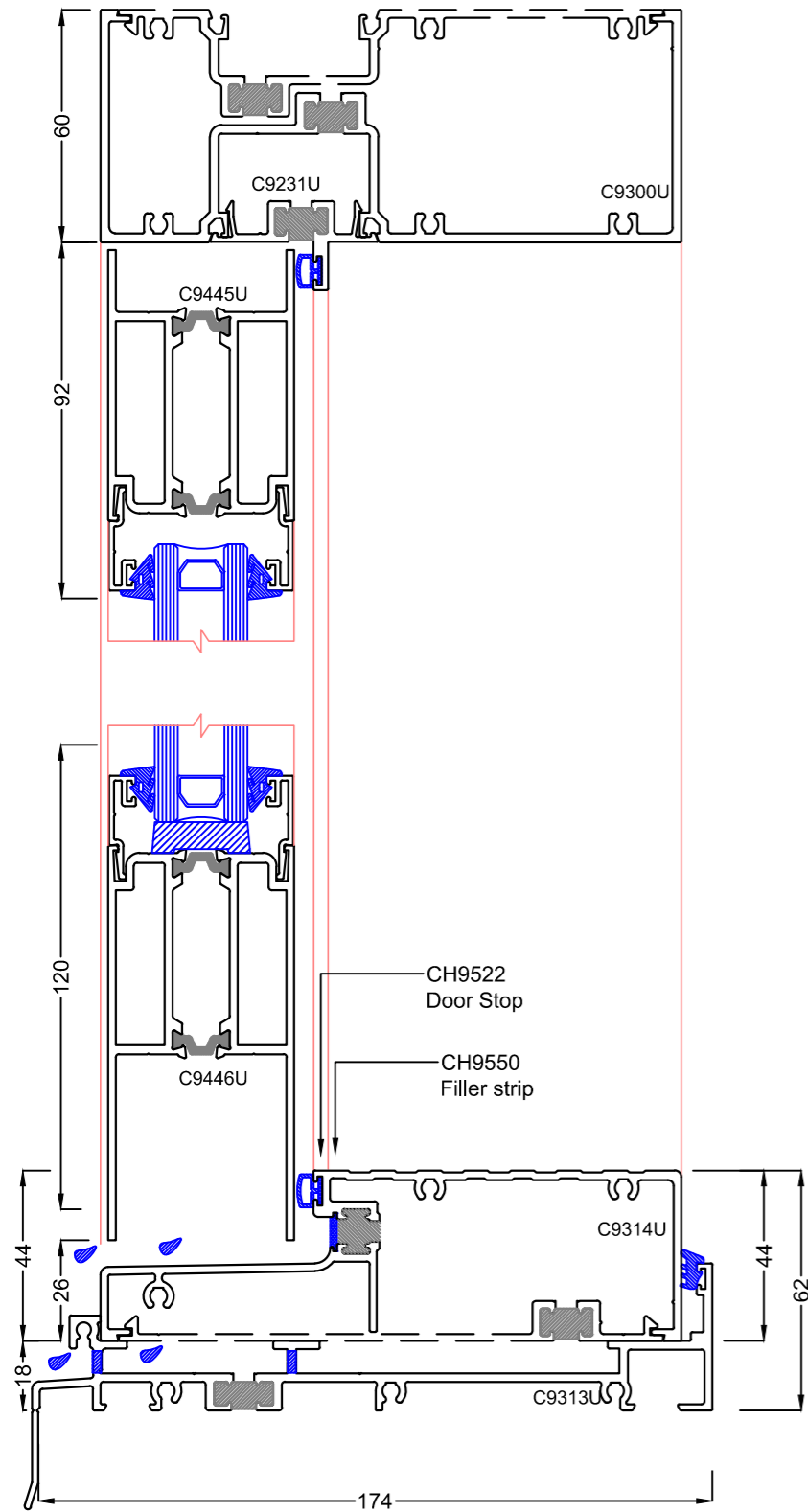
Multi Locking Casement Sash 44mm Head & Sill

44mm Frame shown for clarity, C9300U 60mm frame can also be used

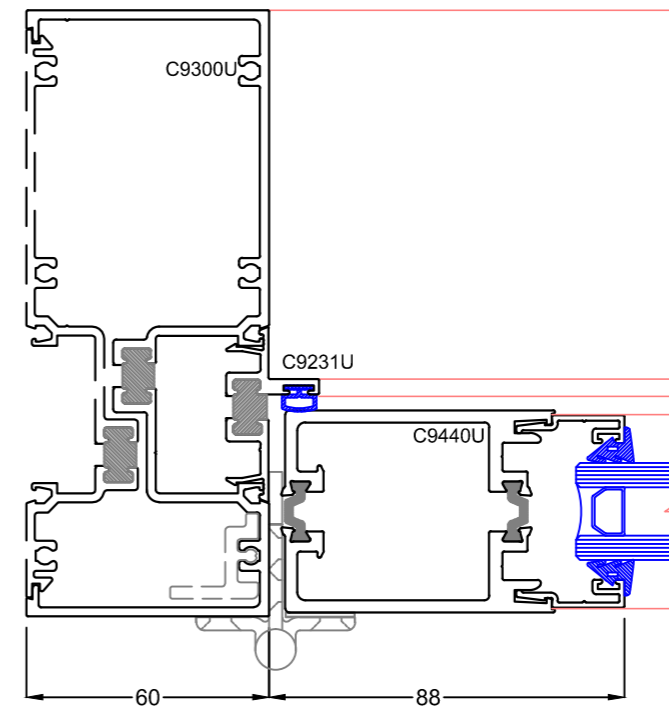


- Maximum Sash weights generally are 72kg. Refer Stay Charts
 - Handle Operated key locking & multi locking
 - Not recommended for use with winders
 - Max Height 2400mm
 - Max width 1000mm
 - Generally suited to 24-40mm IGU
- Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.

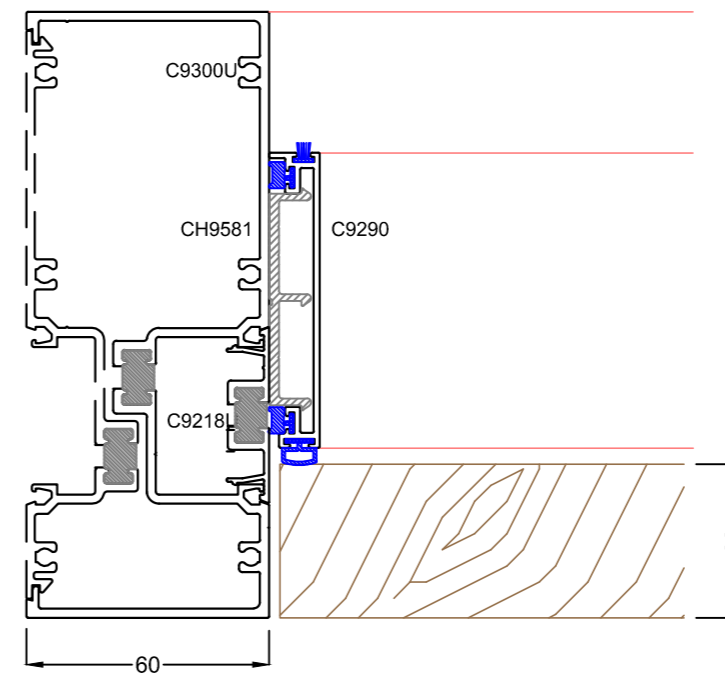
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 13
Hinged Door, Open OUT



Jamb Detail Open OUT Door



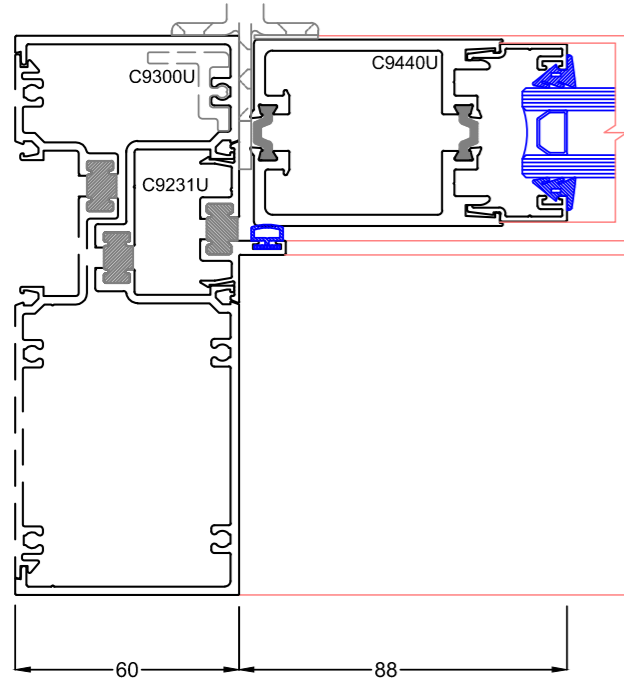
Jamb Detail Open OUT Timber Door



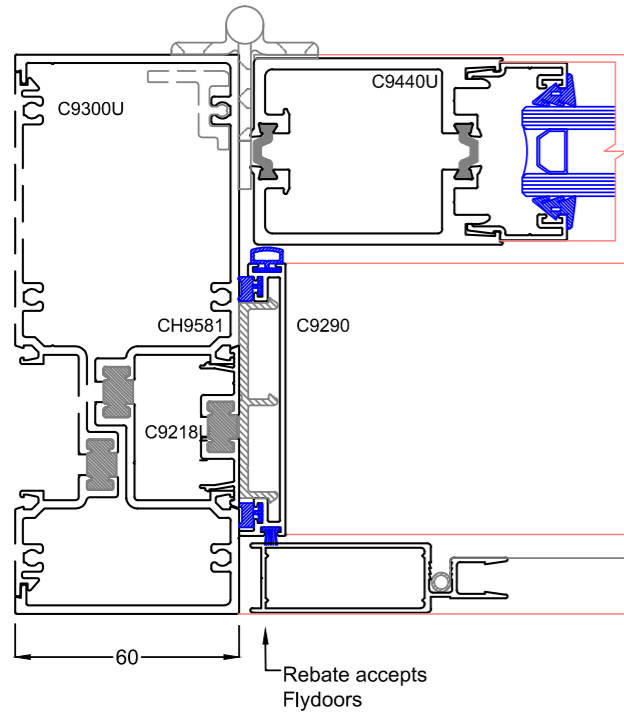
U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

U-Max Framing Systems: U150ODG -14

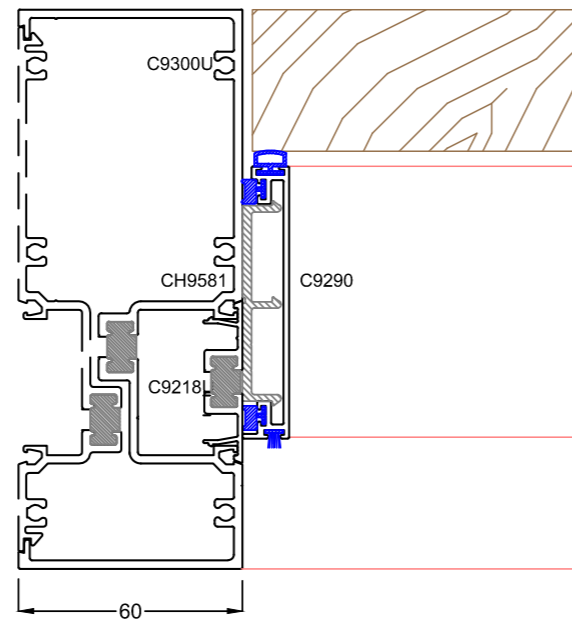
Jamb Detail Open IN Door



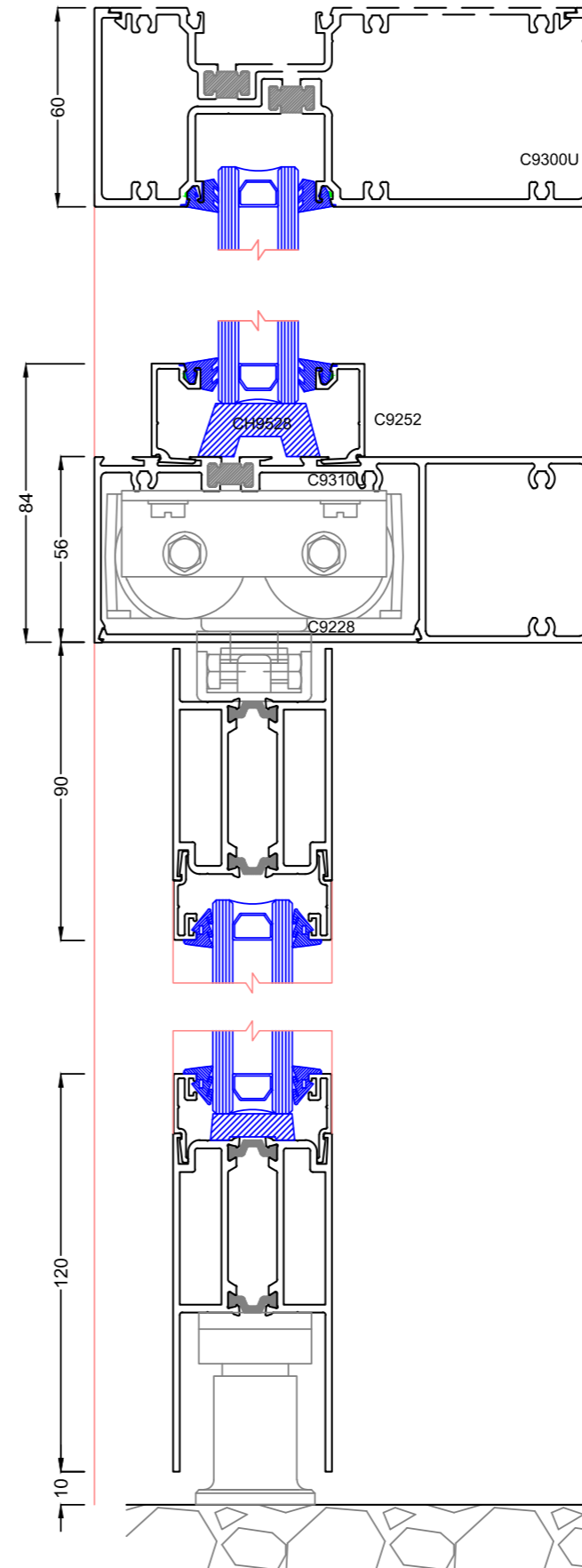
Jamb Detail Open IN Door & Flydoor



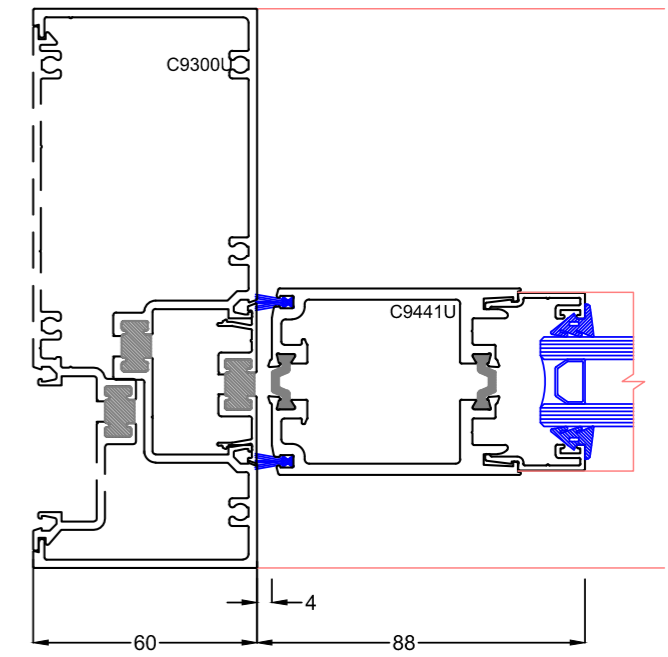
Jamb Detail Open IN Timber Door



Pivot Door & Highlight



Jamb Detail Pivot Door

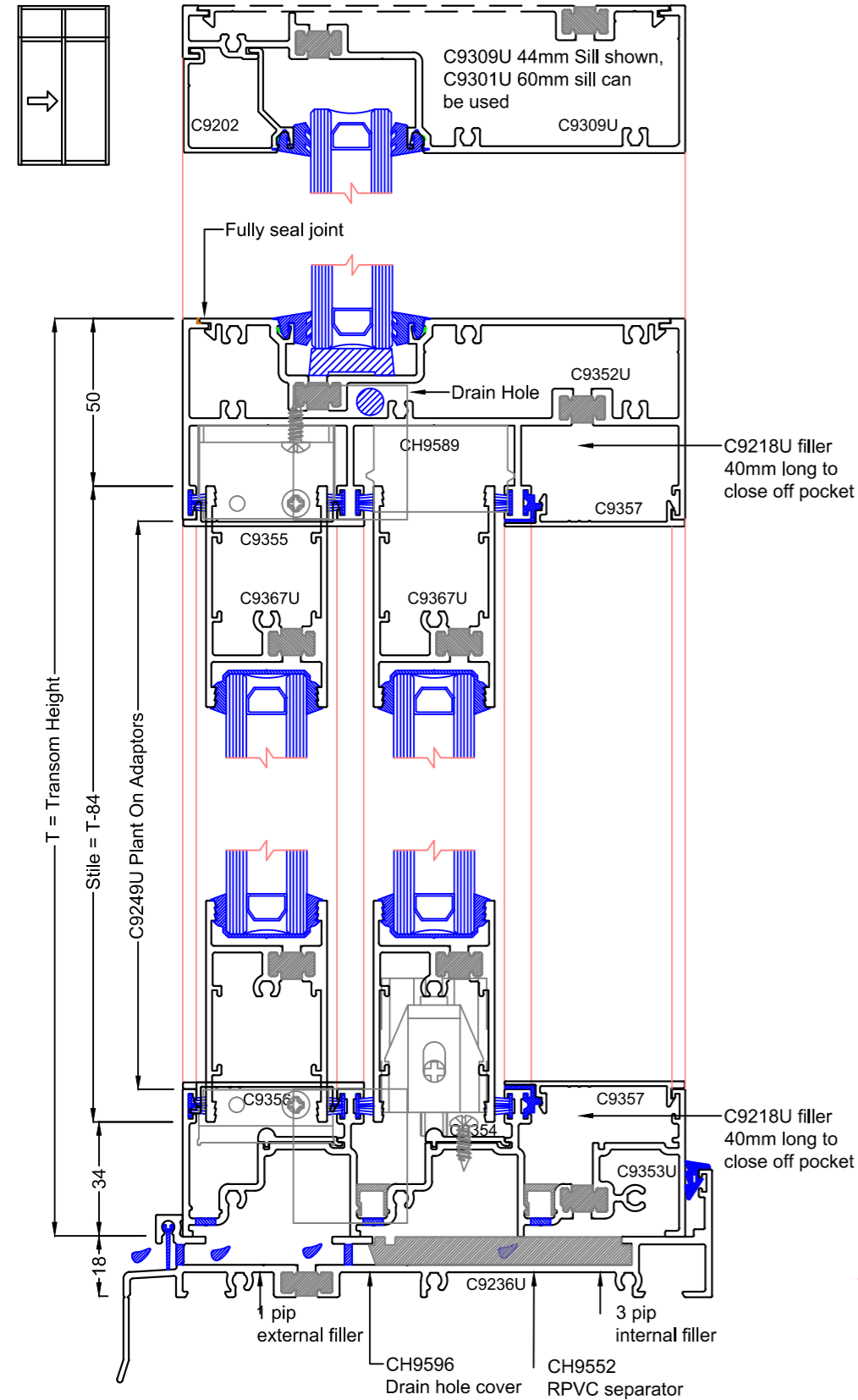


U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

U-Max Framing Systems: U150ODG -15

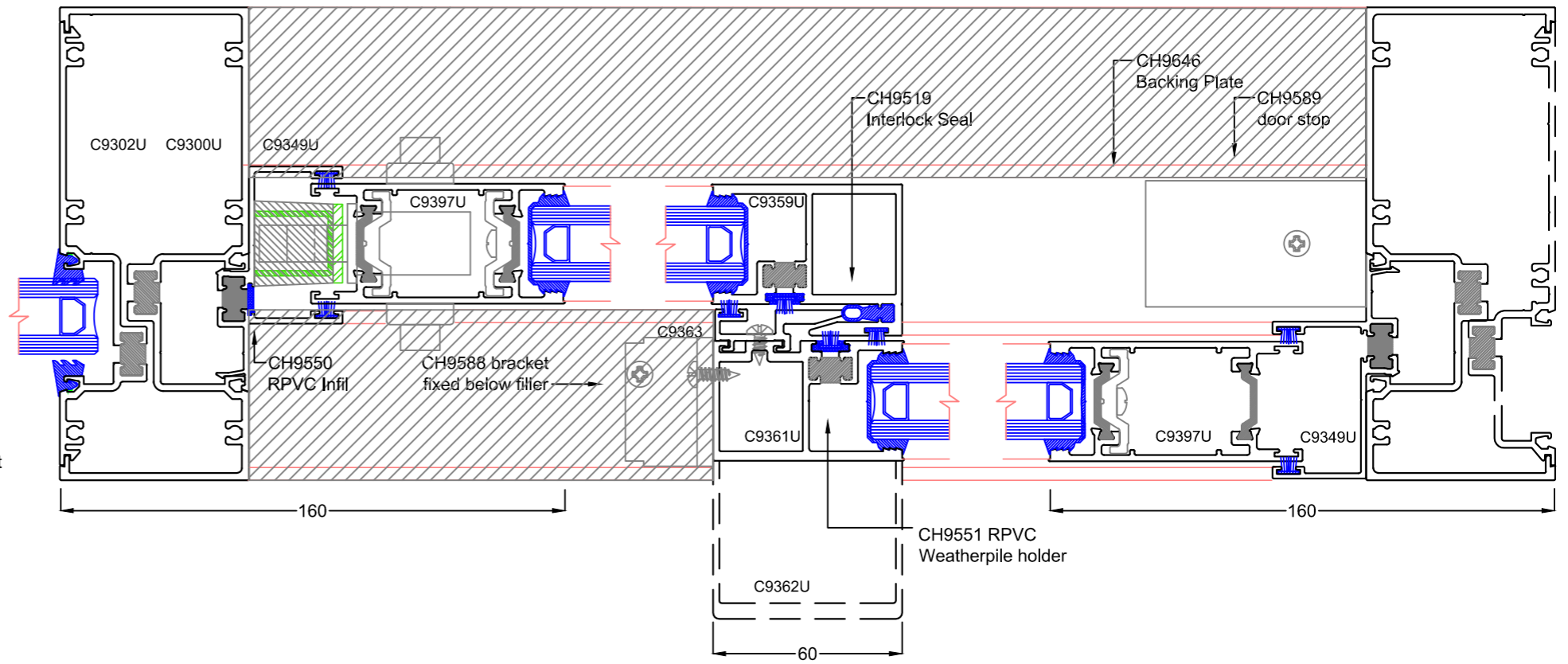
U-Max 150mm Sliding Door with highlight

150mm Offset framing is ideal for most doors with highlights, XO, OXO, XOO (2 track) doors with flydoors & XXO, OXXXXO (3 track) doors.



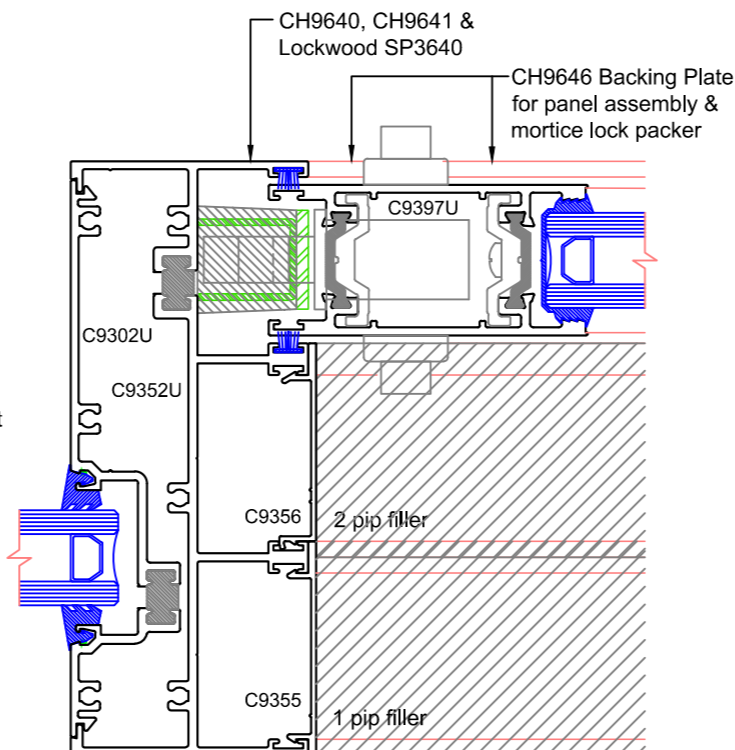
U-Max Sliding Door coupling to 150mm Offset with highlight

C9349U receiver channel is used inside & out. The inner track in this condition is not used and has thermal fillers fitted.



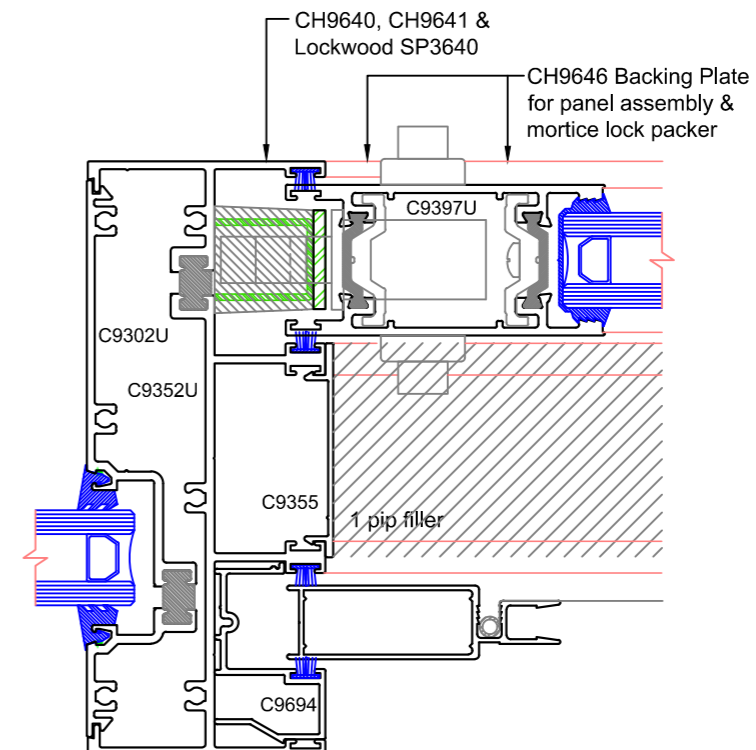
U-Max Sliding Door coupling to 150mm Offset

Using standard C9352 Jamb. The inner track in this condition is not used and has thermal fillers fitted.



U-Max Sliding Door coupling to 150mm Offset

XO Sliding door with Flydoor using standard C9352 Jamb.

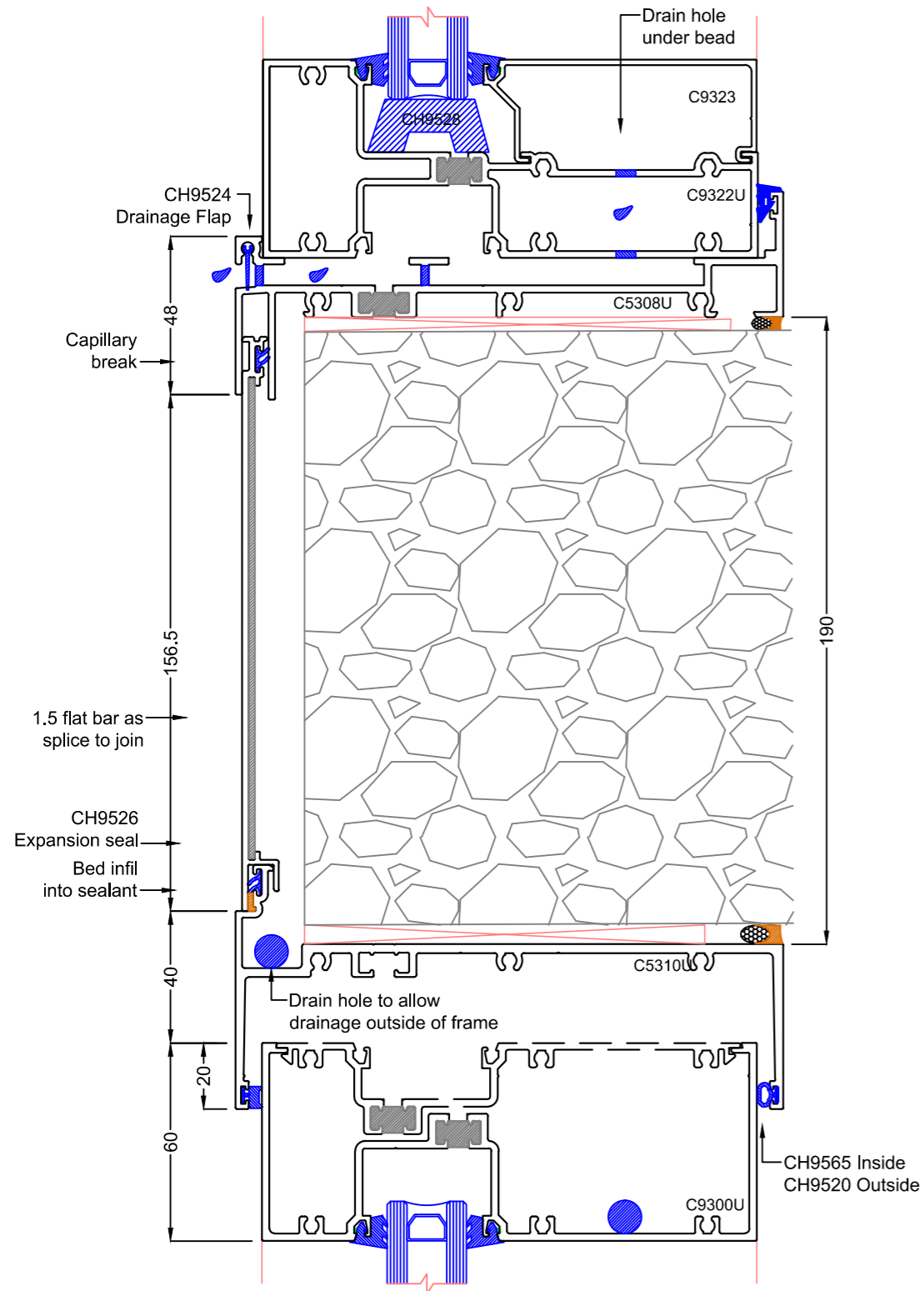


U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket

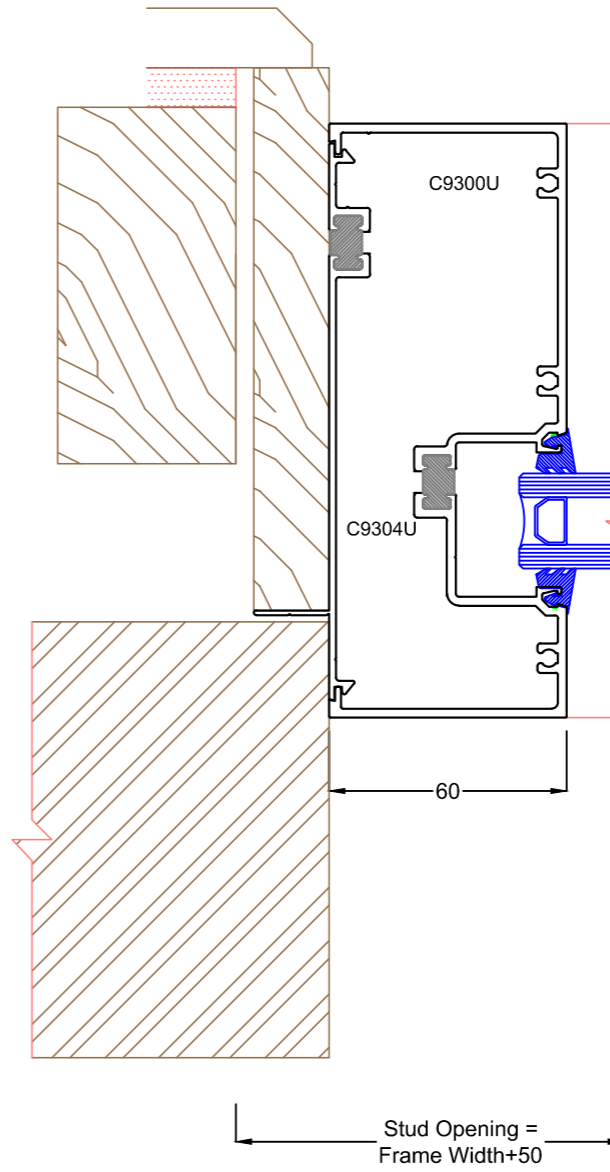
U-Max Framing Systems: U150ODG - 16

Spandrel Sub Head & Subsill

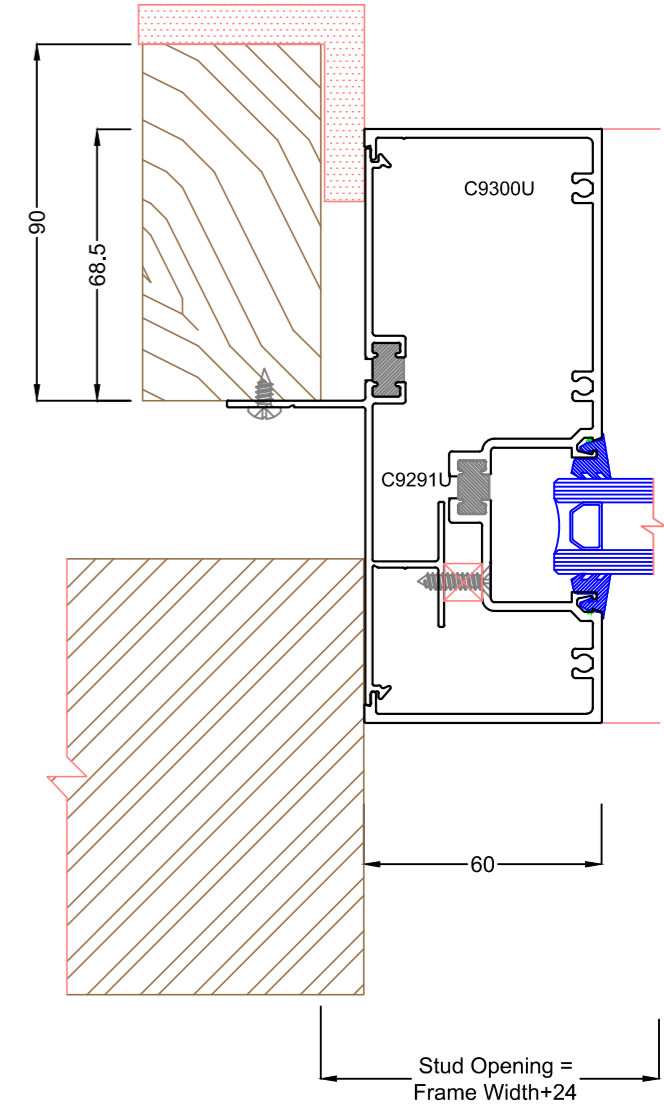
with custom aluminium infill



C9304U Reveal Adaptor



C9291U Build In Adaptor

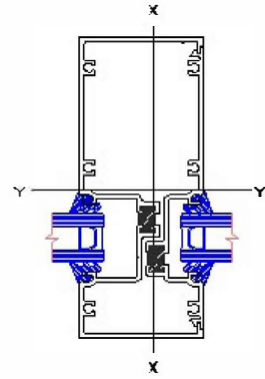


U-MAX™ 150 Offset Double Glazed

U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 17

Mullion Structural Tables

Mullion Combination: U-Max 150 STD ODG C9300, C9302



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

Note the following:

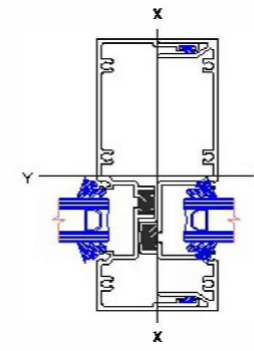
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ulltimate.

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

2200	S	7409	6085	5241	4679	4299	4052	3910	3863
	U	7409	6085	5241	4679	4299	4052	3910	3863
2400	S	6148	5028	4306	3816	3475	3239	3082	2991
	U	6148	5028	4306	3816	3475	3239	3082	2991
2600	S	4843	3960	3390	3002	2728	2534	2399	2309
	U	5184	4224	3602	3175	2873	2655	2501	2398
2800	S	3857	3144	2682	2363	2136	1971	1852	1766
	U	4428	3599	3059	2685	2417	2220	2076	1972
3000	S	3123	2539	2159	1896	1706	1566	1462	1385
	U	3826	3103	2630	2301	2063	1886	1754	1655
3200	S	2564	2081	1765	1545	1385	1266	1177	1109
	U	3338	2703	2286	1995	1783	1624	1503	1411
3400	S	2132	1727	1462	1276	1141	1040	962	903
	U	2937	2374	2005	1746	1556	1413	1303	1218
3600	S	1791	1449	1225	1067	952	865	798	746
	U	2603	2102	1772	1541	1370	1241	1141	1063
3800	S	1520	1228	1036	902	802	727	669	624
	U	2322	1874	1578	1369	1216	1099	1008	937
4000	S	1301	1050	885	769	683	618		
	U	2084	1680	1413	1225	1086	980		
4200	S	1122	905	762	661				
	U	1881	1515	1273	1102				
4400	S	975	786	661					
	U	1705	1373	1153					
4600	S	852	686						
	U	1552	1249						
4800	S	749	603						
	U	1419	1141						
5000	S	662							
	U	1302							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Mullion Structural Tables

Mullion Combination: U-Max 150 Split ODG C9306, C9307



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.

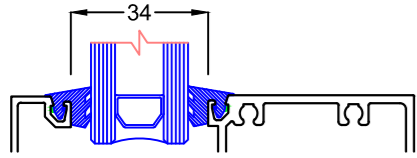
This chart is to be used as a guide only. Where Serviceability exceeds 3kPa or for more information, contact Capral.







2200	S	9424	7740	6667	5951	5469	5154	4974	4914
	U	9424	7740	6667	5951	5469	5154	4974	4914
2400	S	7809	6385	5469	4847	4414	4113	3914	3798
	U	7809	6385	5469	4847	4414	4113	3914	3798
2600	S	6274	5130	4392	3889	3535	3283	3108	2991
	U	6573	5357	4568	4027	3643	3367	3172	3041
2800	S	4997	4073	3474	3061	2767	2554	2399	2288
	U	5607	4558	3874	3400	3061	2812	2629	2498
3000	S	4045	3290	2797	2456	2210	2029	1894	1795
	U	4838	3924	3326	2910	2609	2385	2218	2093
3200	S	3322	2696	2286	2001	1795	1641	1525	1437
	U	4214	3412	2886	2519	2251	2050	1898	1781
3400	S	2761	2237	1894	1653	1478	1347	1247	1170
	U	3703	2994	2528	2201	1962	1782	1643	1536
3600	S	2321	1877	1586	1382	1233	1120	1034	966
	U	3278	2647	2232	1940	1725	1563	1437	1339
3800	S	1969	1591	1343	1168	1040	942	867	808
	U	2921	2356	1984	1722	1529	1382	1268	1178
4000	S	1685	1361	1147	996	885	801	735	683
	U	2618	2110	1775	1539	1364	1231	1127	1045
4200	S	1454	1173	987	856	760	686	629	
	U	2359	1900	1597	1383	1224	1103	108	
4400	S	1263	1018	856	742	657			
	U	2136	1720	1444	1249	1105			
4600	S	1104	889	747	647				
	U	1943	1563	1312	1134				
4800	S	971	781	656					
	U	1774	1426	1196					
5000	S	858	690						
	U	1625	1307						
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

U-Max™ THERMAL BREAK 150 x 60mm OFFSET DOUBLE GLAZED - 34mm Pocket
U-Max Framing Systems: U150ODG - 18

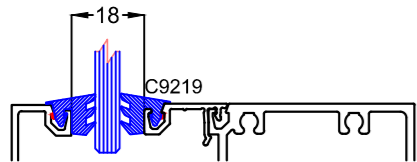
Wedge glazing charts for Max Framing

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 | CH9507
5mm wedge SANT
Green backing | CH9508
6mm wedge SANT
Red backing | CH9509
7mm wedge SANT
Blue backing | CH9510
9mm wedge SANT
Purple backing |

C9219 Spandrel adaptor achieves a 18mm pocket
C9810 Spandrel adaptor achieves a 12mm pocket



	Glass thickness	Example	Rebate wedge	Gap	Glazing wedge	Gap
U-Max Framing	22mm	5/12/5	CH9507	5mm	CH9509	7mm
	23mm	6/12/5	CH9507	5mm	CH9509	7mm
	24mm	6/12/6	CH9507	5mm	CH9507	5mm
	25mm	6.38/12/6	CH9507	4mm	CH9507	5mm
	26mm	8/12/6	CH9506	3mm	CH9507	5mm
	27mm	8.38/12/6	CH9506	3mm	CH9507	5mm
	28mm	8/12/8	CH9505	1mm	CH9507	5mm
	29mm	8/12/8	CH9505	1mm	CH9506	3mm
U-Max Spandrel Glazing	Glass thickness	Spandrel Adaptor	Rebate wedge	Gap	Glazing wedge	Gap
	3mm	C9810	CH9507	7mm	CH9507	5mm
	6mm	C9219	CH9506	5mm	CH9509	7mm
	8mm	C9219	CH9506	5mm	CH9507	5mm
	10mm	C9219	CH9503	3mm	CH9507	5mm

Hobart Apartments, University of Tasmania, NRAS
U-MAX™ 150mm Offset Double Glazed thermally broken frames and custom fins

