

U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
U-Max Framing Systems: U200FCDG - 1

U-Max 200 Front Capped Double Glazed



FEATURES:

- 200mm Frame Depth
- Glass Plane-Front, compatible with 150mm Front Glazed
- 50mm Sight Line generally
- Optional Low profile 44mm Outer Frame
- Optional cap profiles
- Improved head & sill detail over conventional front capped systems.
- Suitable in some configurations for use with sub heads
- Structural Glazed infill cap vertically or horizontally
- Adapts to 50mm face dimension box sections
- Accepts 24mm to 28mm IGU's
- External glazed only
- Hinged & Pivot doors
- Dry Glazed with High performance Santoprene Gaskets
 - Anti Stretch Gaskets
 - Anti-Dropout Gasket Design
- Suited to wet glazed if preferred

FABRICATION:

- Easy Screw Flute Joinery Fabrication
- Simple Panelized Assembly

PRODUCT APPLICATIONS:

- Shopfront, Ribbon Windows, Large fixed panels
- Generally Single Span, limited to 6.5 metre high applications

Whilst principally used as a fixed glazing system it is ideally suited to glazing large panels as the front cap allows full access to the glazing rebate.

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

LIMITATIONS:

- External Glazed only
- May be used as 2 sided structural glazed. Not recommended for 4 sided structural glazed.

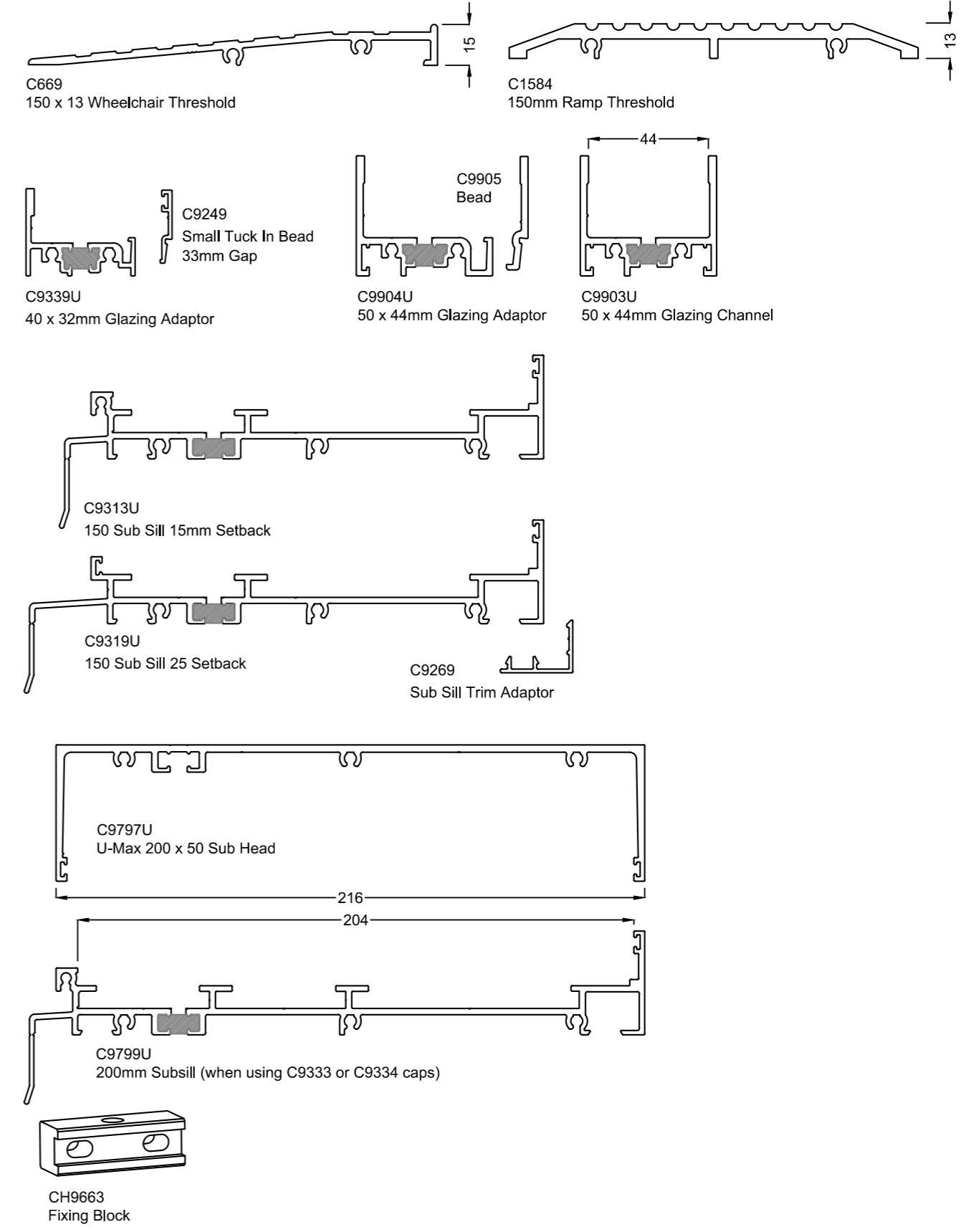
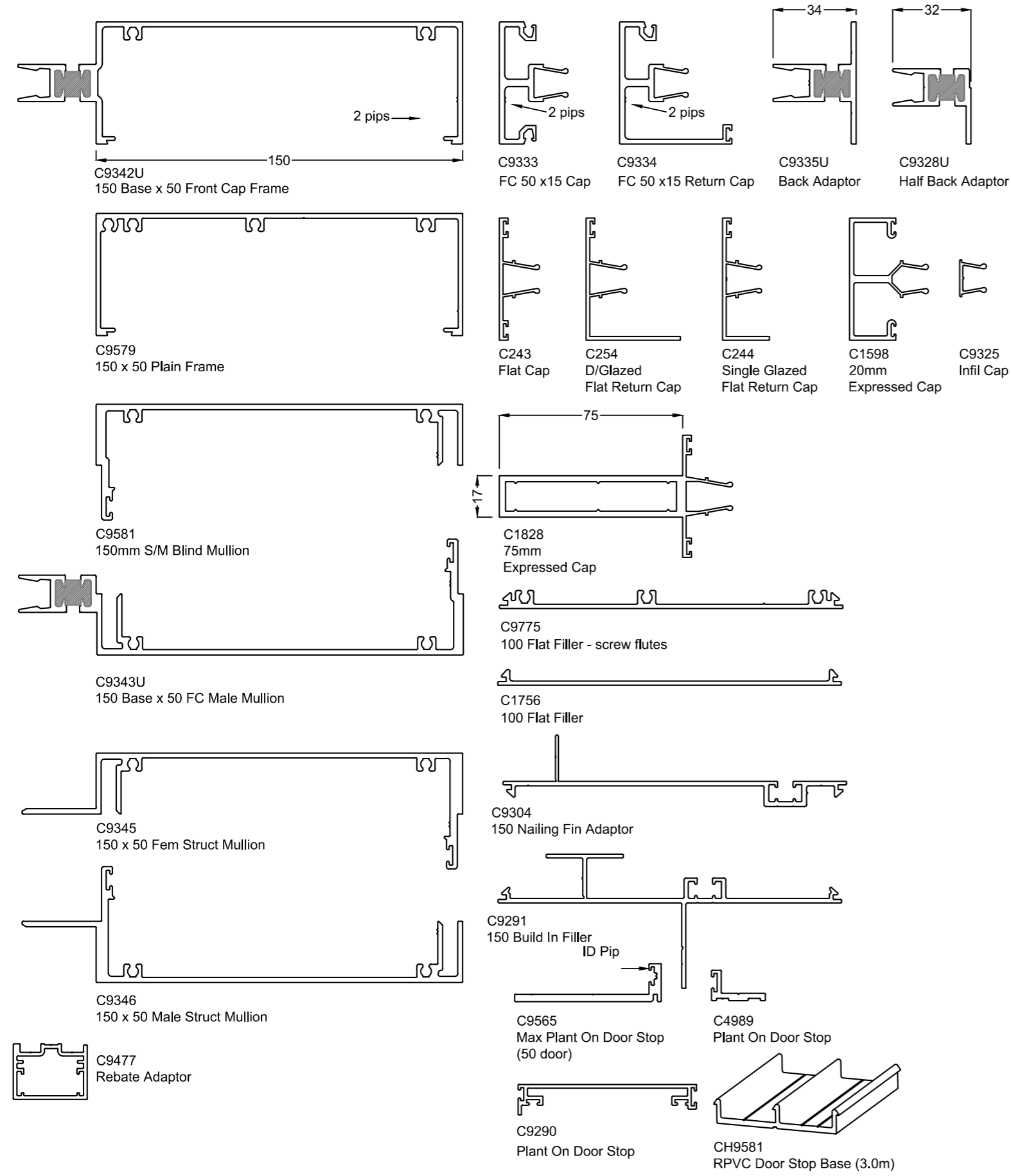
Pt. Leo Estate, Victoria
U-MAX™ 200mm Front Capped Double Glazed thermally broken frames



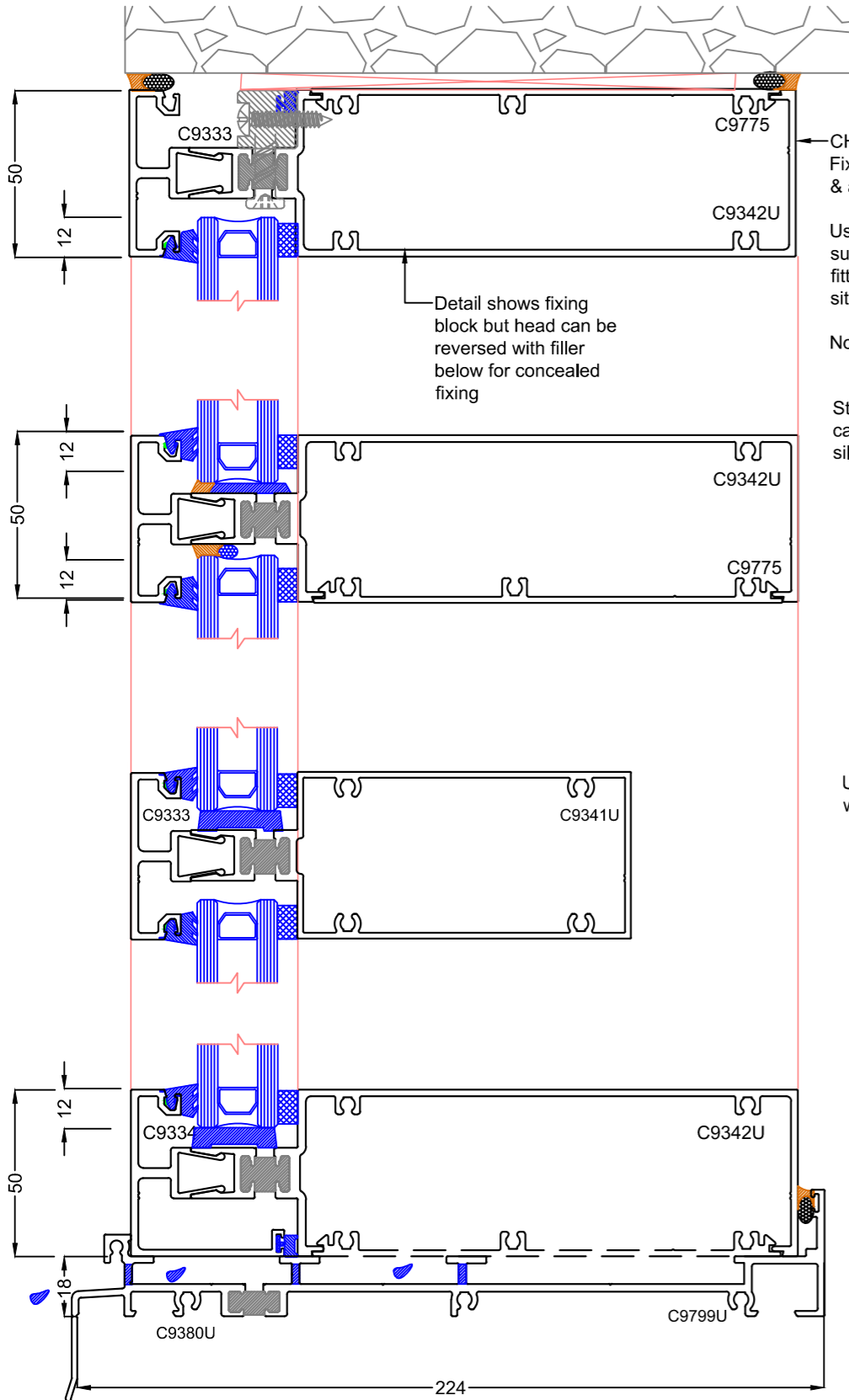
U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED

U-Max Framing Systems: U200FCDG - 2

Extrusion ID



U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
U-Max Framing Systems: U200FCDG - 3
50mm Front Capped Head, Sill & transoms



CH9663 fixing block.
Fix within 50mm of Jamb & Mullion
& at nom 450 ctrs elsewhere.

Using the fixing block, it properly
supports packing & can be factory
fitted & pre-drilled to simplify
site installation.

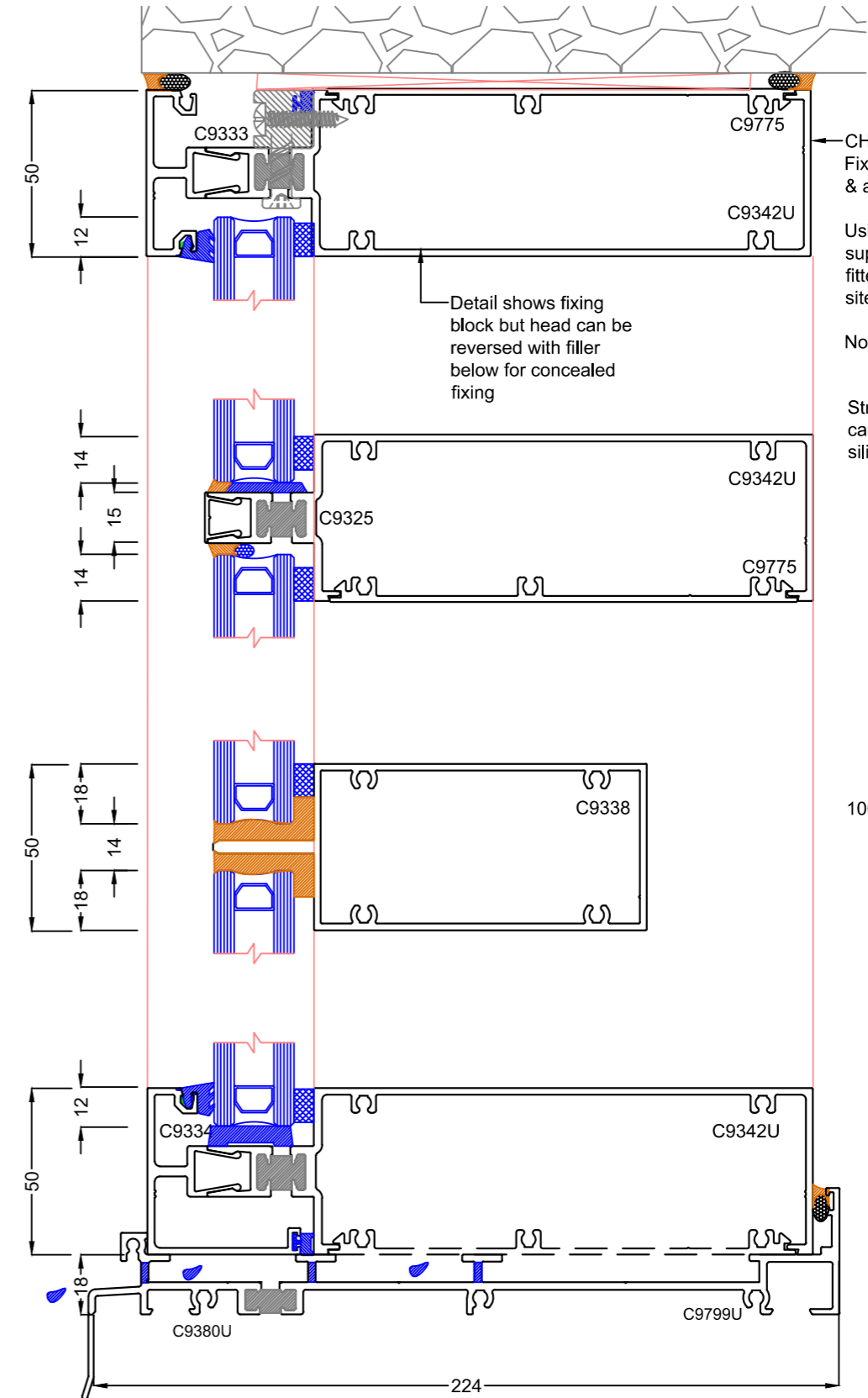
Note that a return cap isn't necessary

Structural Glazed Transom, C9325 infill
can be black powdercoat to blend with
silicone glazing

U-Max 150 Transoms can be combined
with U-Max 200 Front Capped.

Front Capped Head & Sill, contained within a 200mm one piece subsill & the
glazing leg is fully supported. The bead is captivated in the subsill & must use
Front Capped jambs to allow correct glazing.
In this arrangement, a subhead must never be used.

50mm Front Capped Head & Sill with structural transoms



CH9663 fixing block.
Fix within 50mm of Jamb & Mullion
& at nom 450 ctrs elsewhere.

Using the fixing block, it properly
supports packing & can be factory
fitted & pre-drilled to simplify
site installation.

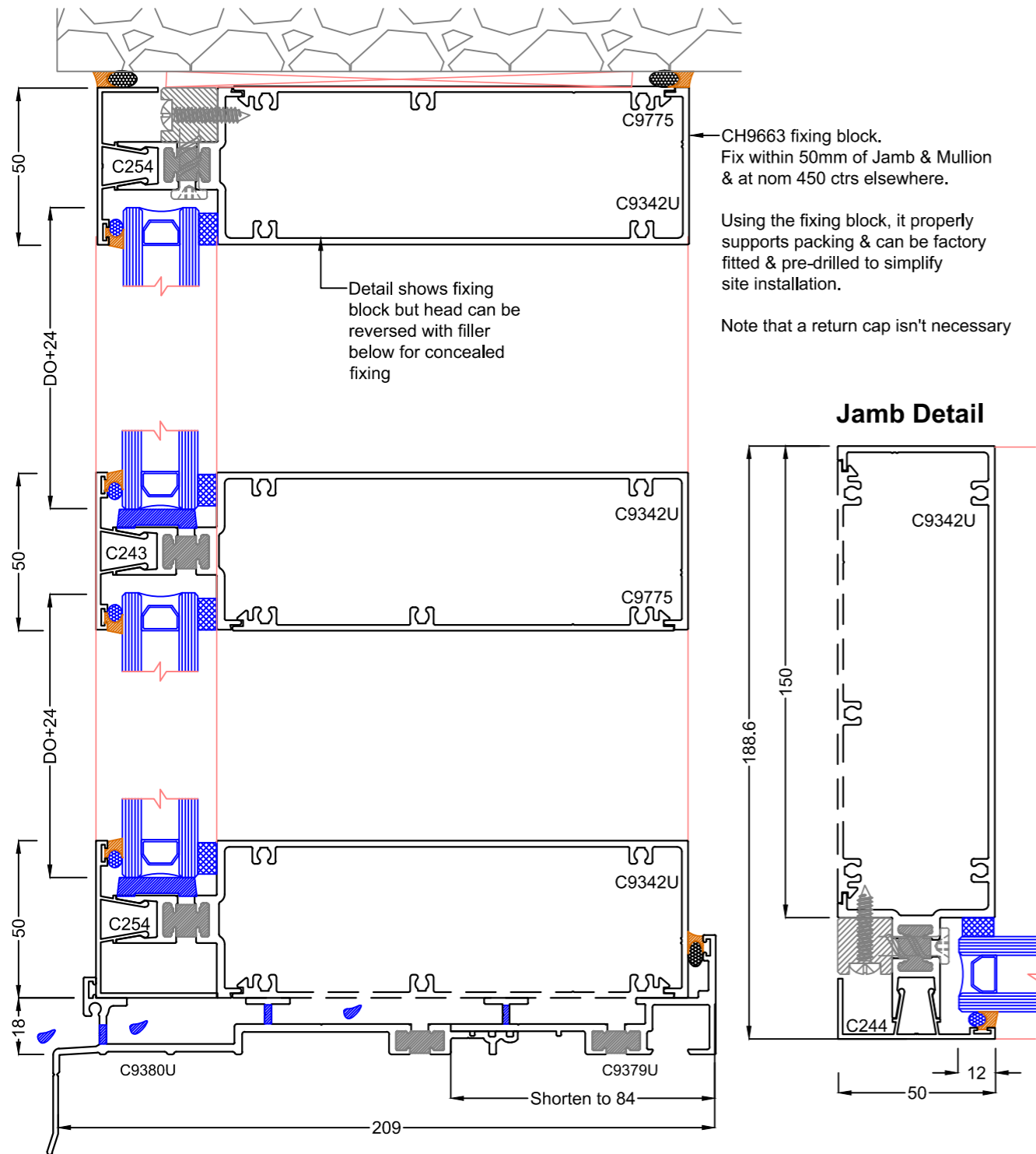
Note that a return cap isn't necessary

Structural Glazed Transom, C9325 infill
can be black powdercoat to blend with
silicone glazing

100mm Transom may be used

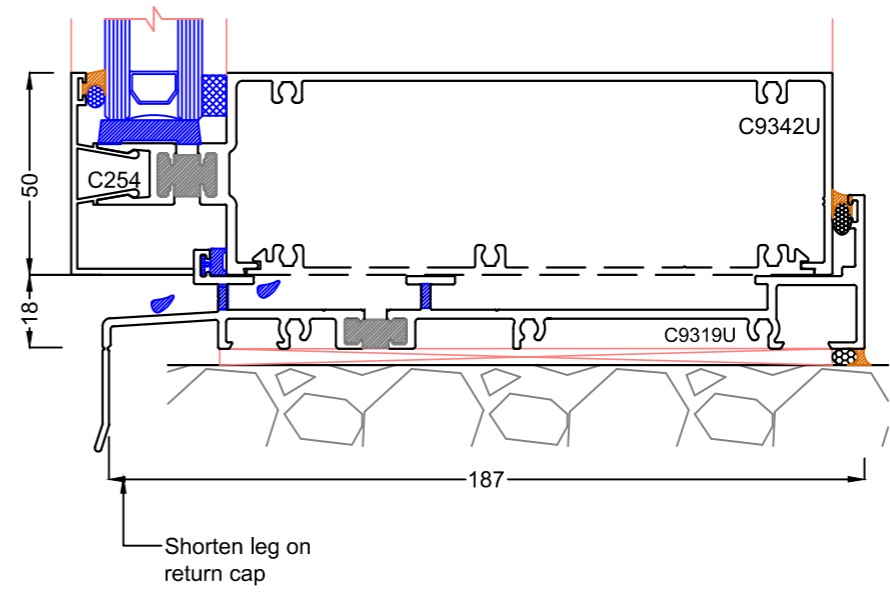
Front Capped Head & Sill, contained within a 200mm one piece subsill & the
glazing leg is fully supported. The bead is captivated in the subsill & must use
Front Capped jambs to allow correct glazing.
In this arrangement, a subhead must never be used.

U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
U-Max Framing Systems: U200FCDG - 4
Alternative Flat Front Cap



Using the flat caps, a 200mm 2 part subsill is required & the glazing leg is fully supported. The bead is captivated in the subsill & must use Front Capped jambs to allow correct glazing. In this arrangement, a subhead must never be used.

Alternative Flat Front Cap
using 150mm subsill in lieu of 2 part subsill

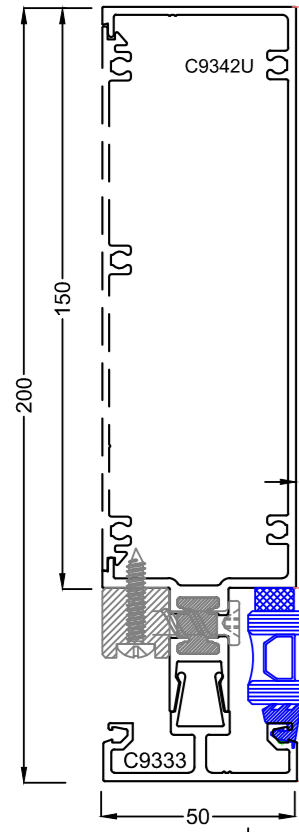


The flat front cap option is limited in application with double glazed. The glazing leg is not supported & can sag which causes the bottom cap to rotate outward at best. Additionally this detail, if not adequately supported in the subsill can rotate & lift up at the back. The 150 extended subsill C9319U best aligns with the outer face of the cap. This configuration must never be used with a subhead.

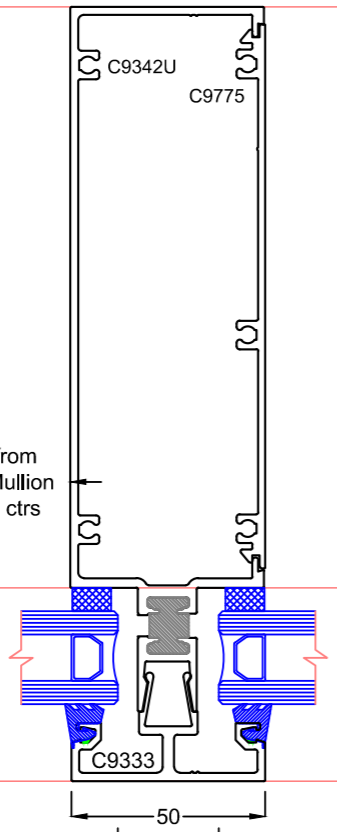
U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED

U-Max Framing Systems: U200FCDG - 5

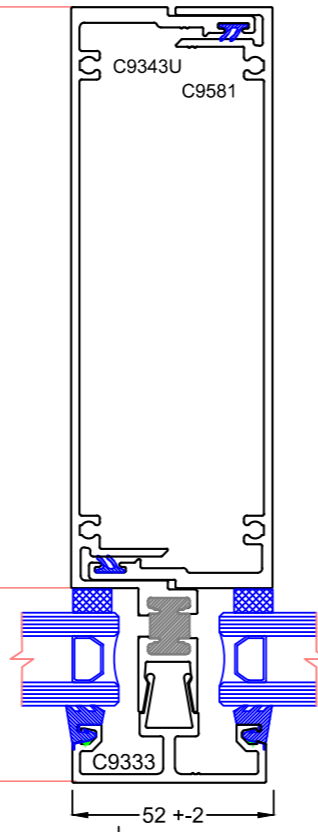
50mm Jamb



Standard Mullion



Split Mullion

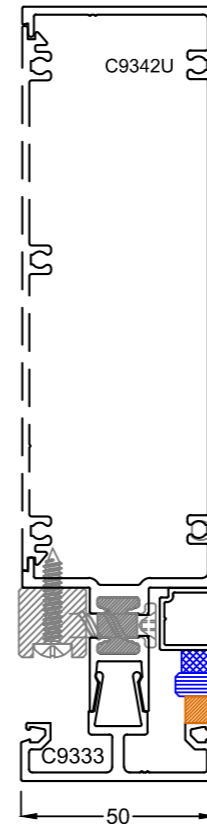


8mm Self drilling screws supported by CH9663 fixing block

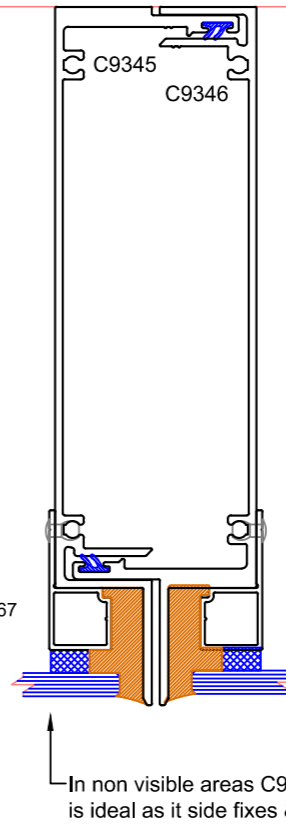
Min 50 from Jamb & Mullion & at 450 ctrs

Min 50 from Jamb & Mullion & at 450 ctrs

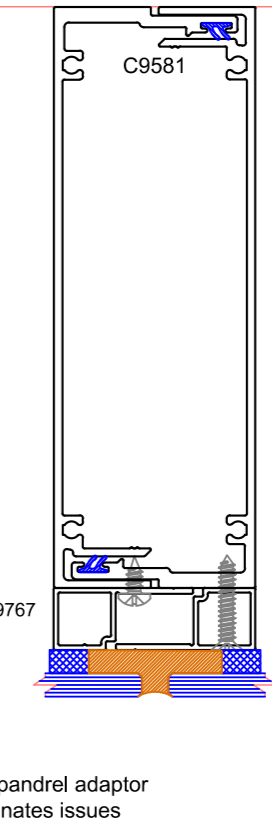
Spandrel Glazing
Jamb with Cap



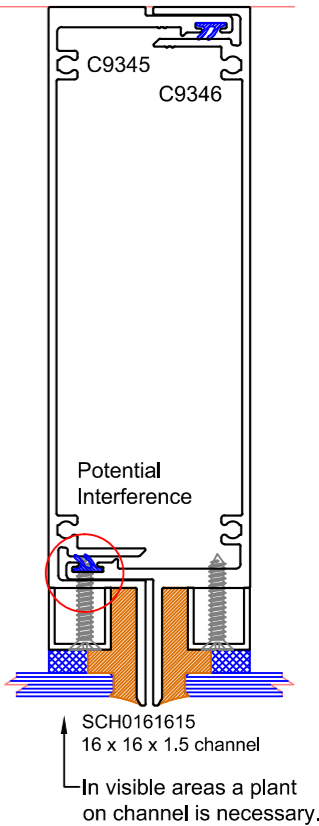
Structural Mullion
with plant on adaptor



Blind Mullion
with plant on adaptor



Structural Mullion
with plant on channel

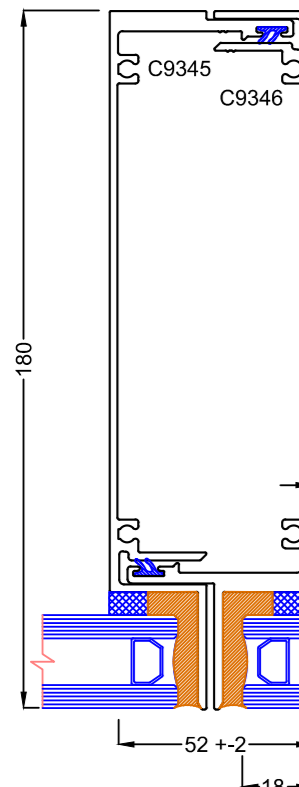


In non visible areas C9767 Spandrel adaptor is ideal as it side fixes & eliminates issues caused when using a plant on channel on the face of a structural mullion or transom

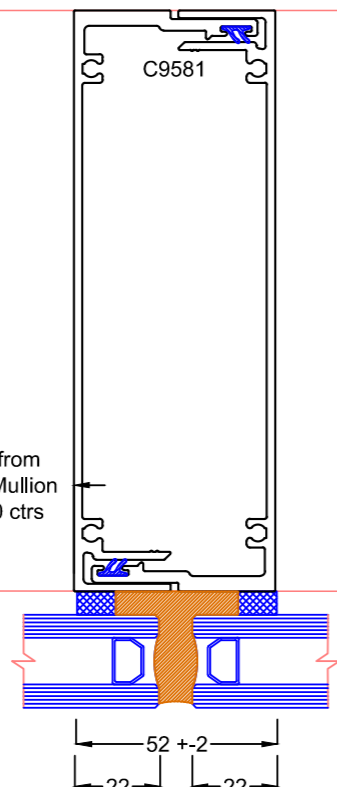
SCH0161615
16 x 16 x 1.5 channel

In visible areas a plant on channel is necessary. It may be necessary to machine the male mullion leg to clear face fixing in the channel

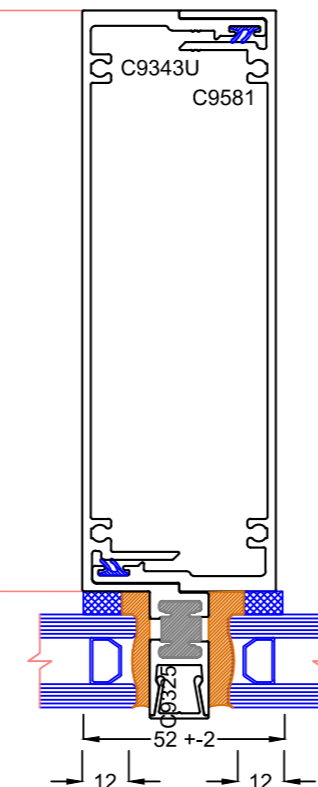
Structural Glazed Mullion



Self Mating Blind Mullion



Capped Mullion

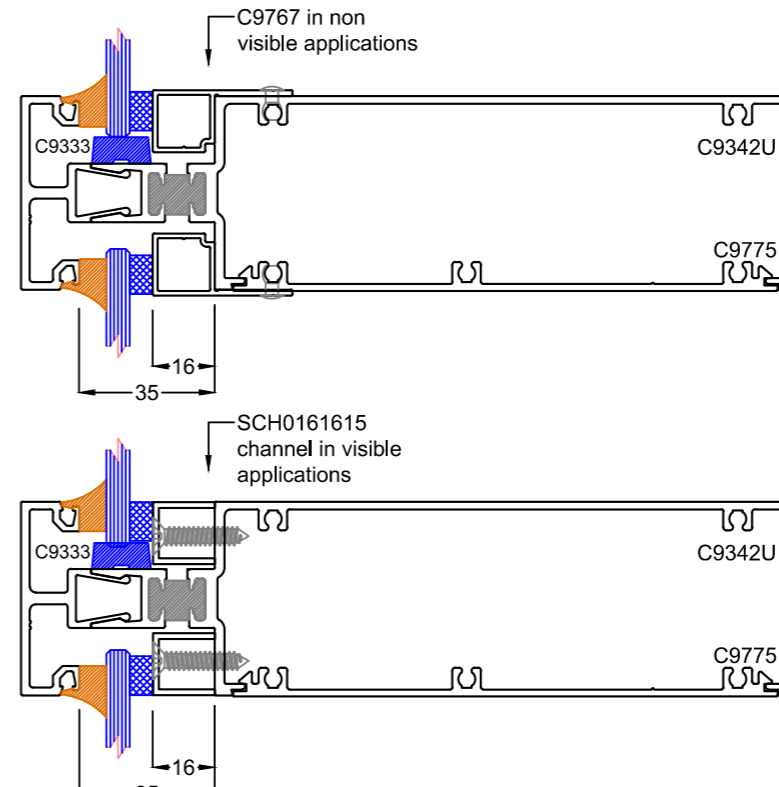


8mm Self drilling screws supported by CH9663 fixing block

Min 50 from Jamb & Mullion & at 450 ctrs

Min 50 from Jamb & Mullion & at 450 ctrs

Transom Spandrel Detail



C9767 in non visible applications

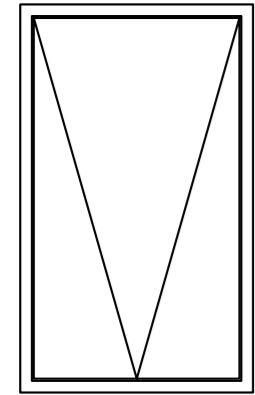
SCH0161615 channel in visible applications

U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED

U-Max Framing Systems: U200FCDG - 6

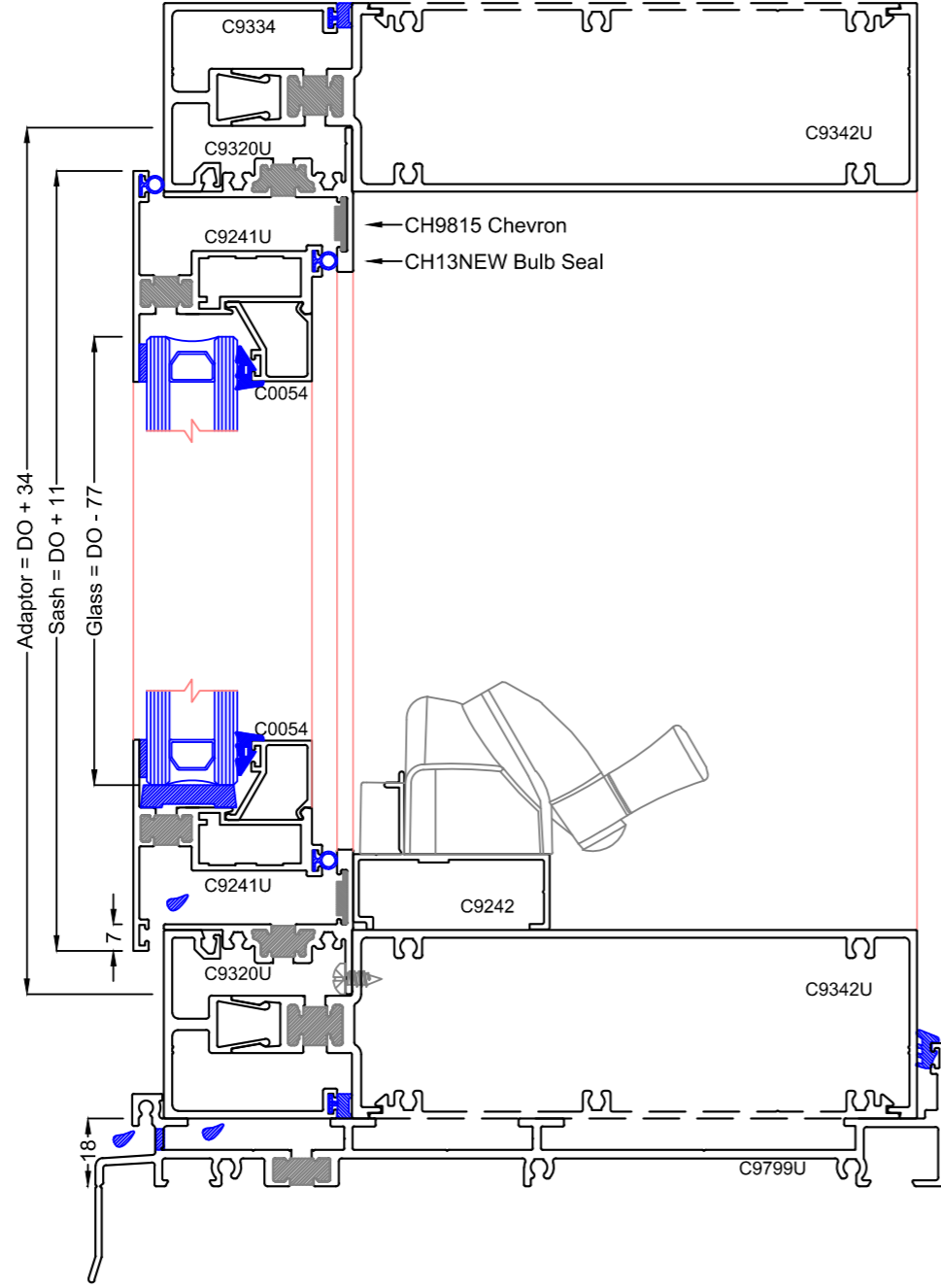
46mm Overlap Sash

46mm Overlap Sash with 50mm Head & Sill

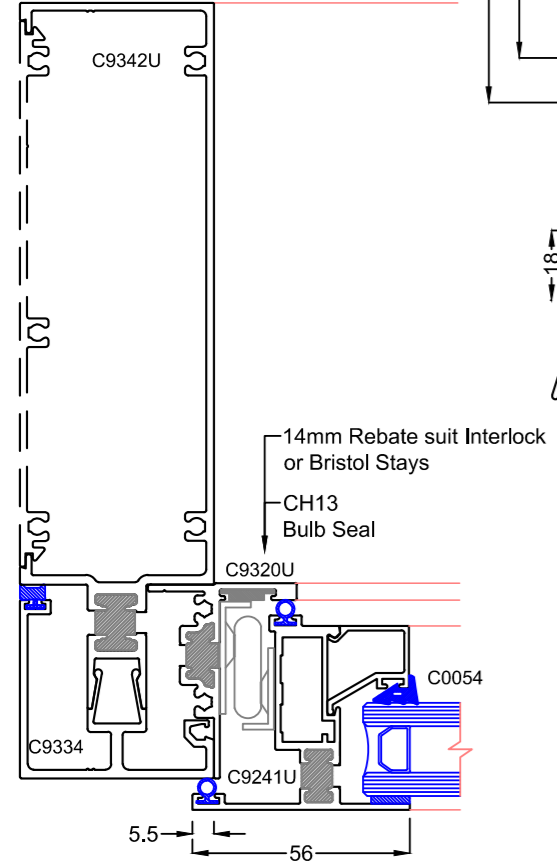


- Maximum sash weights generally up to 70kg, limited by the hardware.
- Maximum sash height 1800mm.
- Glass thicknesses: 24-32mm glass.
- Please refer the Sashes segment in the catalogue for hardware limits & options.
- Sash Adaptor assembled & inserted into rebate as a frame

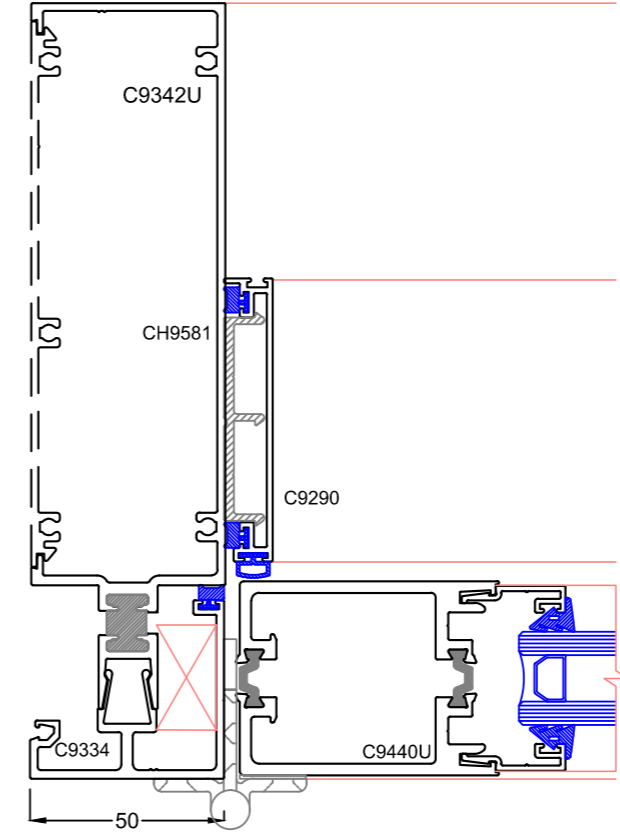
Please refer the Sashes segment in the catalogue for further information on sash limits & hardware selection.



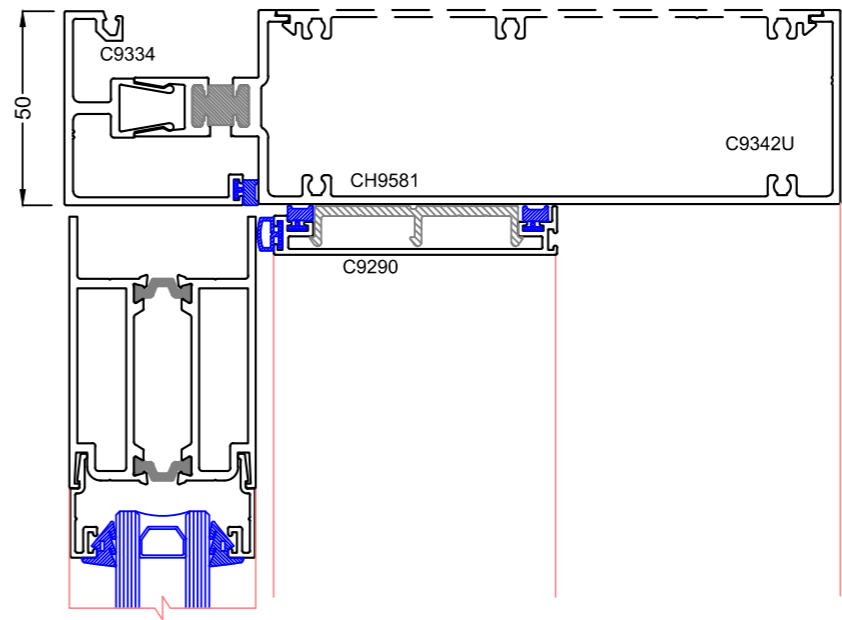
Jamb Detail



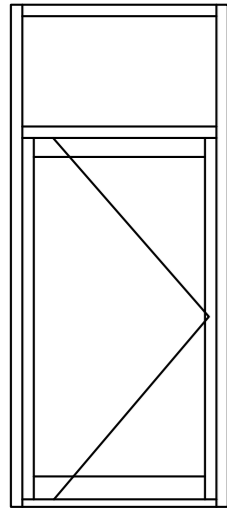
Jamb Detail Open OUT Door



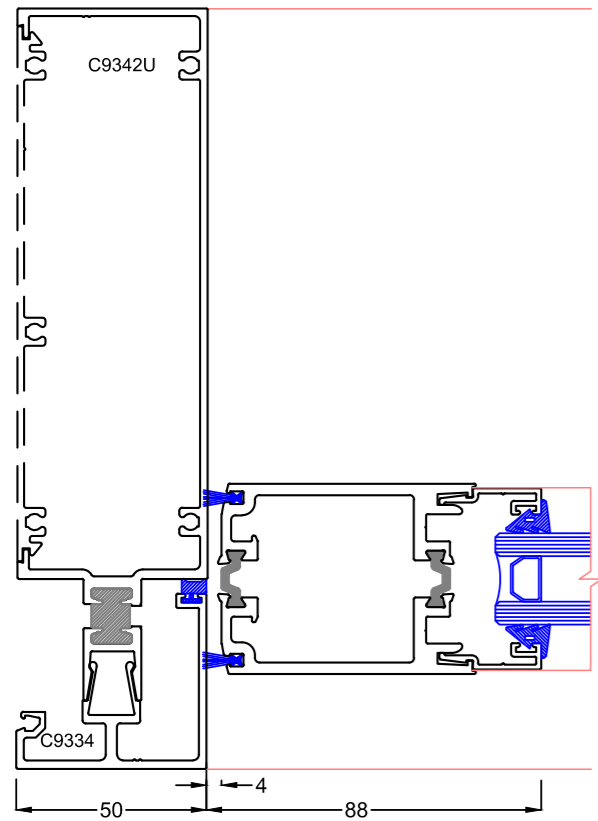
Head Detail Open OUT Door



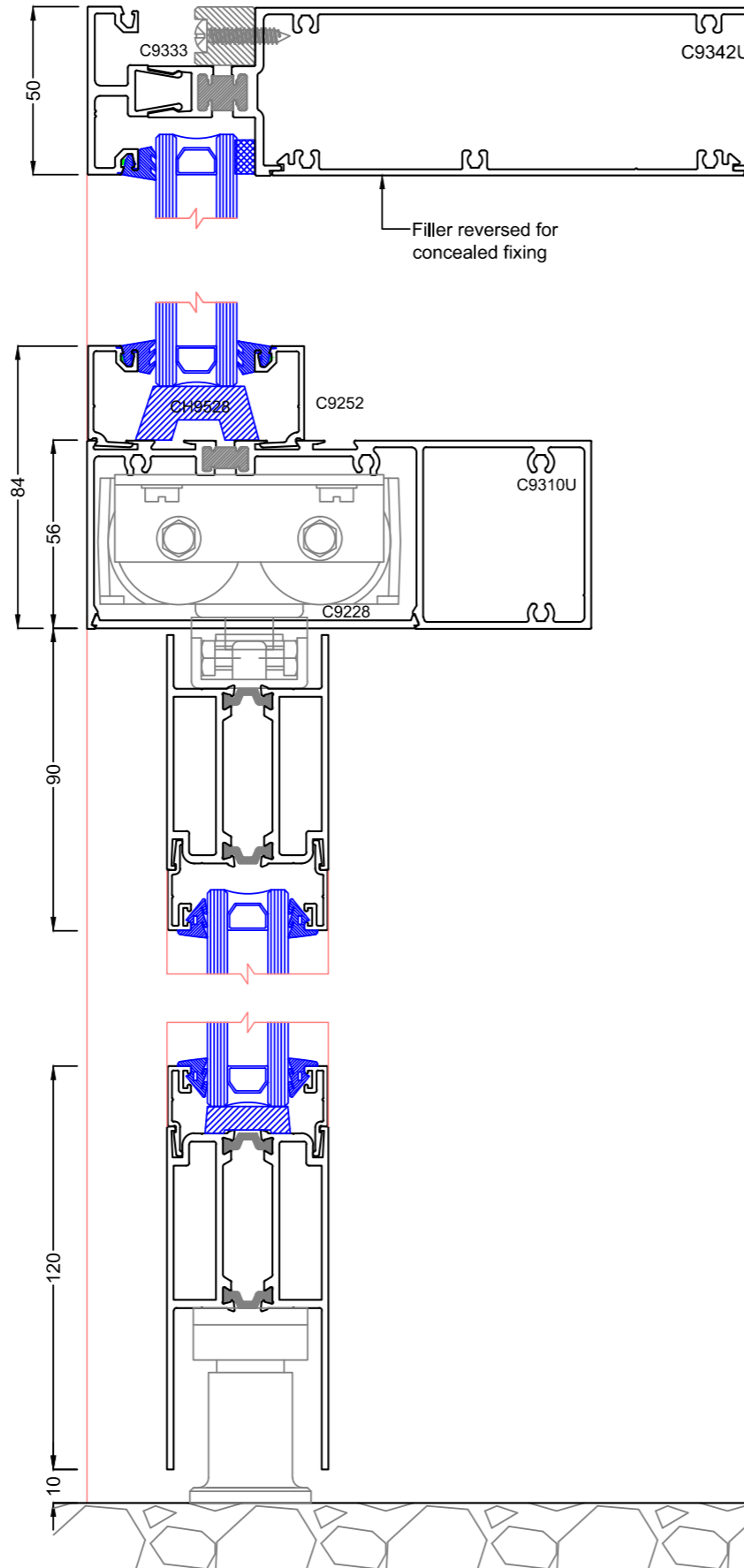
U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
U-Max Framing Systems: U200FCDG - 7
Pivot Doors



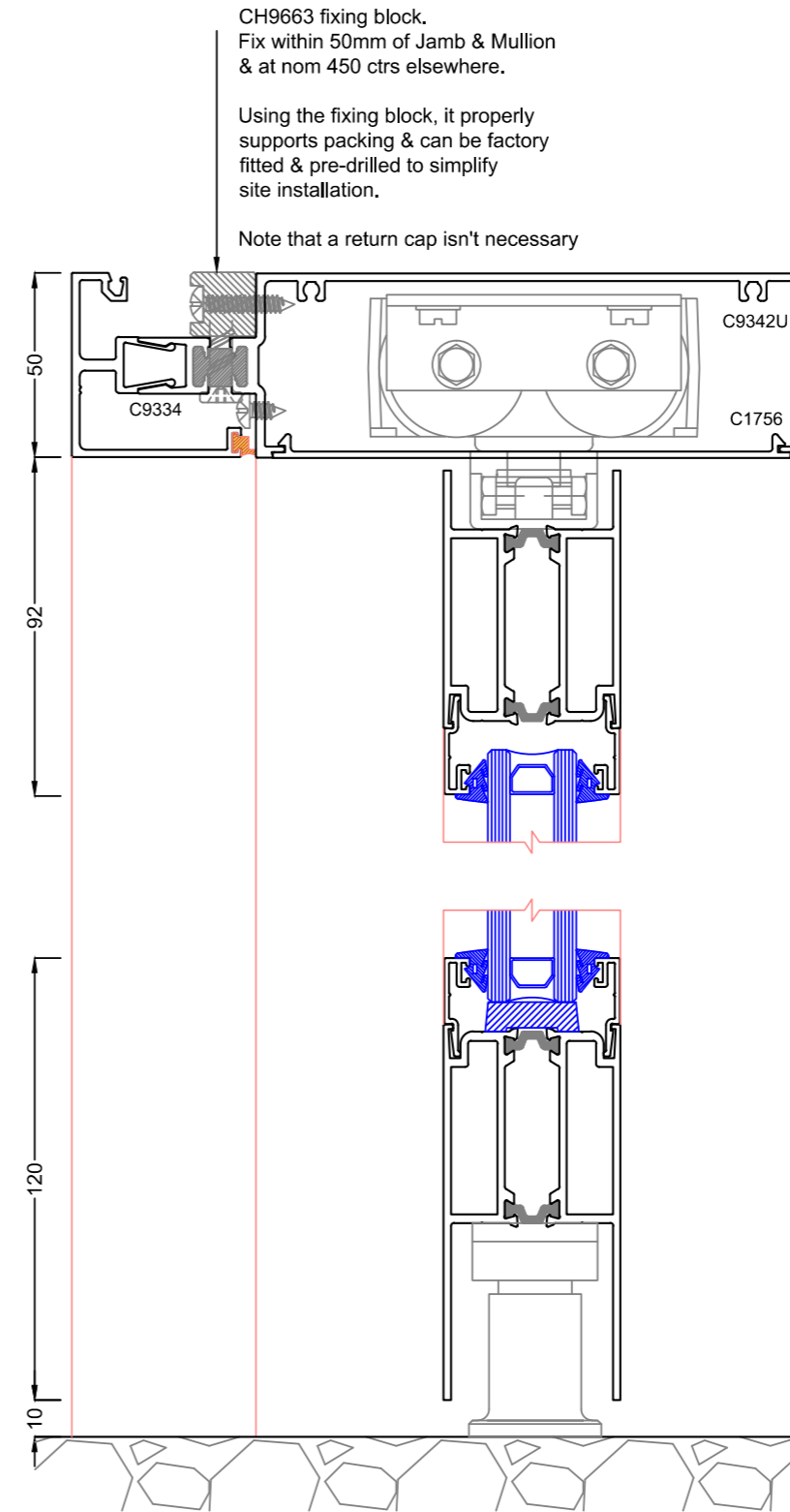
Maximum Door height 2700mm
Maximum Panel width 1000mm
Pivot point usually 100mm



Pivot Door & Highlight

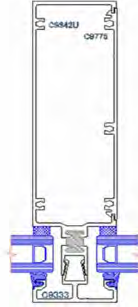


Alternate Head or Transom Detail with Pivot Door



**U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
U-Max Framing Systems: U200FCDG - 8
Mullion Structural Tables**

Mullion Combination: U-Max 200FCDG Standard C9342U, C9775, C9333



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

Note the following:

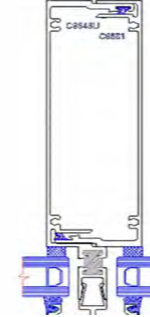
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ultimate.

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

2200	S	7057	5796	4992	4456	4095	3859	3724	3680
	U	7057	5796	4992	4456	4095	3859	3724	3680
2400	S	5845	4780	4094	3628	3304	3079	2930	2843
	U	5845	4780	4094	3628	3304	3079	2930	2843
2600	S	4919	4009	3419	3013	2726	2520	2374	2275
	U	4919	4009	3419	3013	2726	2520	2374	2275
2800	S	4195	3410	2898	2544	2290	2103	1967	1868
	U	4195	3410	2898	2544	2290	2103	1967	1868
3000	S	3509	2853	2426	2130	1917	1760	1643	1557
	U	3618	2934	2487	2176	1951	1784	1659	1565
3200	S	2881	2338	1983	1736	1556	1423	1322	1246
	U	3151	2551	2158	1883	1683	1533	1419	1332
3400	S	2395	1940	1642	1434	1282	1168	1081	1014
	U	2768	2238	1890	1645	1467	1332	1228	1148
3600	S	2013	1628	1376	1199	1069	972	896	838
	U	2449	1978	1668	1450	1289	1168	1074	1000
3800	S	1708	1380	1164	1013	902	817	752	701
	U	2182	1760	1482	1287	1142	1033	947	880
4000	S	1462	1180	994	864	768	694	638	
	U	1955	1576	1326	1149	1019	919	842	
4200	S	1261	1017	856	743	659			
	U	1761	1419	1192	1033	914			
4400	S	1095	883	742	643				
	U	1594	1284	1078	932				
4600	S	957	771	648					
	U	1450	1166	979					
4800	S	842	678						
	U	1323	1064						
5000	S	744							
	U	1212							
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Mullion Structural Tables

Mullion Combination: U-Max 200FCDG Split C9343U, C9581



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.

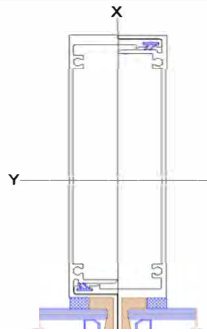
2200	S	9854	8093	6971	6223	5718	5389	5201	5138
	U	9854	8093	6971	6223	5718	5389	5201	5138
2400	S	8157	6670	5713	5063	4610	4297	4088	3968
	U	8157	6670	5713	5063	4610	4297	4088	3968
2600	S	6860	5590	4767	4202	3802	3514	3310	3173
	U	6860	5590	4767	4202	3802	3514	3310	3173
2800	S	5846	4752	4039	3545	3191	2931	2741	2604
	U	5846	4752	4039	3545	3191	2931	2741	2604
3000	S	5039	4087	3465	3031	2717	2485	2310	2180
	U	5039	4087	3465	3031	2717	2485	2310	2180
3200	S	4248	3448	2924	2560	2295	2098	1950	1837
	U	4386	3551	3004	2621	2342	2134	1975	1854
3400	S	3532	2861	2422	2115	1891	1723	1595	1496
	U	3850	3113	2628	2289	2040	1853	1709	1597
3600	S	2968	2401	2029	1768	1577	1433	1322	1236
	U	3405	2750	2318	2015	1792	1624	1493	1391
3800	S	2518	2035	1717	1494	1330	1205	1109	1034
	U	3031	2446	2060	1788	1587	1435	1316	1223
4000	S	2156	1740	1466	1274	1132	1024	940	874
	U	2715	2189	1841	1596	1415	1277	1169	1083
4200	S	1859	1500	1262	1095	972	878	804	746
	U	2444	1969	1655	1433	1269	1143	1045	967
4400	S	1615	1302	1095	949	841	758	694	642
	U	2211	1780	1495	1293	1144	1029	940	868
4600	S	1412	1137	956	827	732	660	603	
	U	2010	1617	1357	1173	1036	932	849	
4800	S	1241	999	839	726	642	578		
	U	1833	1474	1237	1068	943	847		
5000	S	1097	883	741	641				
	U	1679	1349	1131	977				
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED

U-Max Framing Systems: U200FCDG - 9

Mullion Structural Tables

Mullion Combination: 200FCDG Split Struct C9345, C9346



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

Note the following:

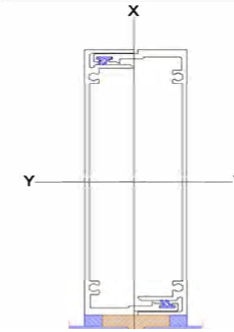
- Maximum Stress = 110Mpa
- Serviceability based on Span/250
- Italics indicate where Serviceability is limited by Ultimate.

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

2200	S	10012	8223	7083	6322	5810	5475	5284	5220
	U	10012	8223	7083	6322	5810	5475	5284	5220
2400	S	8287	6776	5804	5143	4684	4365	4153	4031
	U	8287	6776	5804	5143	4684	4365	4153	4031
2600	S	6969	5679	4843	4269	3862	3570	3363	3223
	U	6969	5679	4843	4269	3862	3570	3363	3223
2800	S	5939	4827	4103	3601	3241	2978	2784	2645
	U	5939	4827	4103	3601	3241	2978	2784	2645
3000	S	5118	4151	3519	3079	2760	2524	2346	2214
	U	5118	4151	3519	3079	2760	2524	2346	2214
3200	S	4371	3547	3008	2633	2361	2159	2006	1883
	U	4455	3607	3051	2662	2379	2167	2006	1883
3400	S	3633	2944	2492	2176	1945	1772	1641	1539
	U	3910	3162	2670	2325	2072	1882	1735	1622
3600	S	3053	2470	2087	1819	1622	1474	1360	1271
	U	3458	2793	2355	2047	1820	1649	1516	1413
3800	S	2591	2094	1767	1537	1368	1240	1141	1063
	U	3079	2484	2092	1815	1612	1457	1337	1242
4000	S	2218	1790	1509	1310	1164	1053	967	899
	U	2757	2222	1870	1621	1437	1296	1187	1100
4200	S	1913	1543	1299	1127	1000	903	827	767
	U	2482	1999	1680	1455	1288	1161	1061	981
4400	S	1661	1339	1126	976	865	780	714	661
	U	2246	1808	1518	1313	1162	1045	954	881
4600	S	1452	1170	983	851	753	679	620	
	U	2040	1642	1378	1191	1052	946	862	
4800	S	1277	1028	863	747	660			
	U	1861	1497	1256	1085	958			
5000	S	1129	908	762	659				
	U	1704	1370	1149	991				
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

Mullion Structural Tables

Mullion Combination: 150 SM Blind Struct C9581, C9581



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.

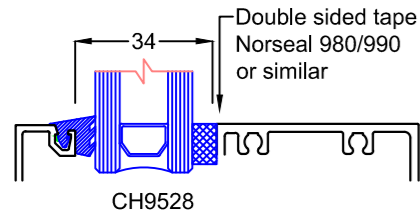
2200	S	10079	8278	7131	6365	5849	5512	5319	5256
	U	10079	8278	7131	6365	5849	5512	5319	5256
2400	S	8337	6817	5838	5174	4712	4391	4178	4055
	U	8337	6817	5838	5174	4712	4391	4178	4055
2600	S	6523	5333	4566	4043	3674	3413	3231	3110
	U	7006	5709	4869	4292	3882	3589	3381	3240
2800	S	5195	4234	3611	3183	2877	2655	2493	2379
	U	5966	4849	4121	3618	3256	2991	2797	2657
3000	S	4205	3420	2908	2553	2297	2109	1969	1866
	U	5138	4168	3533	3091	2771	2534	2356	2223
3200	S	3453	2802	2377	2080	1866	1706	1585	1493
	U	4469	3619	3061	2671	2387	2174	2012	1889
3400	S	2871	2326	1968	1719	1537	1400	1296	1216
	U	3920	3170	2676	2331	2077	1886	1740	1626
3600	S	2412	1952	1649	1437	1282	1165	1075	1004
	U	3465	2798	2359	2051	1824	1652	1519	1415
3800	S	2047	1654	1396	1214	1081	980	901	840
	U	3082	2487	2094	1818	1614	1459	1338	1243
4000	S	1752	1414	1192	1035	920	832	764	710
	U	2759	2224	1871	1622	1438	1297	1188	1101
4200	S	1511	1219	1026	890	790	713	654	606
	U	2482	2000	1680	1455	1288	1161	1061	981
4400	S	1313	1058	890	771	683	616		
	U	2244	1807	1517	1313	1161	1045		
4600	S	1147	924	777	672				
	U	2038	1640	1376	1189				
4800	S	1009	812	682					
	U	1858	1494	1253					
5000	S	892	718	602					
	U	1700	1367	1146					
Mullion Centres (mm)		800	1000	1200	1400	1600	1800	2000	2200

U-Max™ THERMAL BREAK 200 x 50mm FRONT CAPPED DOUBLE GLAZED
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Glazing charts for Max Front Capped Framing

The following chart has been prepared to depict suggested tape & wedge combinations for U-MAX Front Capped glazing.

There are a number of different glazing methods for this system, however the use of a double sided tape like Norseal 980 or 990 is ideally suited to for this system.



CH9506
3mm Co-ex wedge
Yellow backing
SANT



CH9507
5mm Co-ex wedge
Green backing
SANT



CH9508
6mm Co-ex wedge
Red backing
SANT



CH9509
7mm Co-ex wedge
Blue backing
SANT

Max Front Capped Framing	Glass thickness	Example	Rebate Tape	Gap	External wedge	Gap
	22mm	5/12/5	12 x 4.8	5mm	CH9509	7mm
	23mm	6/12/5	12 x 4.8	5mm	CH9509	7mm
	24mm	6/12/6	12 x 4.8	5mm	CH9507	5mm
	25mm	6.38/12/6	12 x 4.8	5mm	CH9507	5mm
	26mm	8/12/6	12 x 3.2	3mm	CH9507	5mm
	27mm	8.38/12/6	12 x 3.2	3mm	CH9507	5mm
	28mm	8/12/8	12 x 3.2	3mm	CH9506	3mm