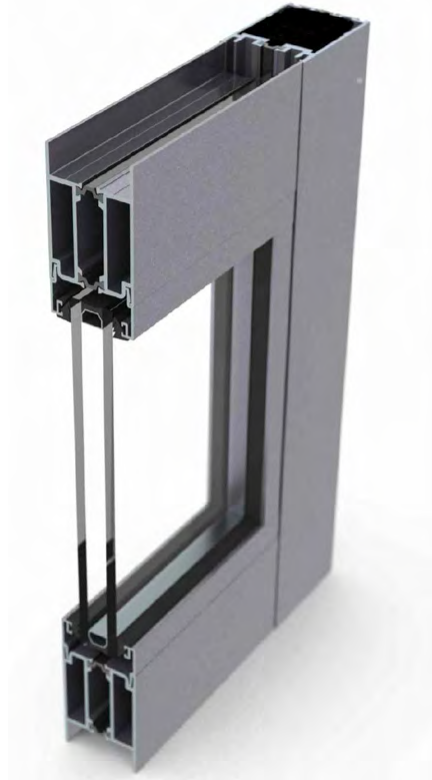


U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 1

U-MAX™ Commercial Door Systems



FEATURES:

- Comprehensive range of door & track configurations
 - o Hinged doors
 - o Pivot doors
 - o Bottom track & Overhead Sliding doors - 250kg panel weights
 - o Multi track options - 250kg panel weights
- Standard & Wide Stile Options
- 60mm & 120mm Midrail options
- 50mm thick door leaf for added strength
- Dual hollow rails for additional strength
- Door systems integrate with all Max & U-MAX Framing systems
- Accepts 6mm to 10.38mm single glazed
- Accepts 24mm to 34mm IGU's
- Designed for Thermal Break applications

FABRICATION:

- Square cut manufacture
- Simple panelized assembly

PRODUCT APPLICATIONS:

- Commercial entrances
- High end residential applications
- Apartments

NOTE:

- Compatible with Lockwood Selector & 3540 Series (requires faceplate suit timber doors)
- Locks with similar faceplates can be used Refer Locks page

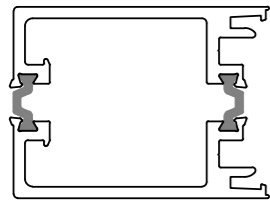


Transgrid
U-MAX™ 150mm Front Double Glazed framing system with U-MAX™ Automatic Commercial Door

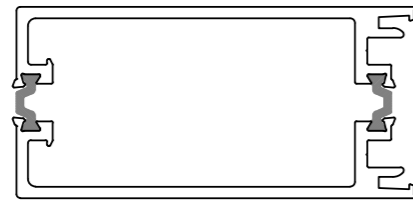
U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 2

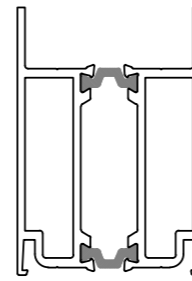
Extrusion ID



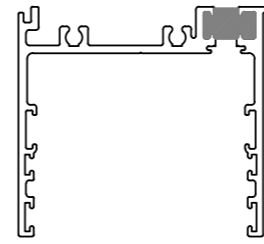
C9440U
Plain Stile



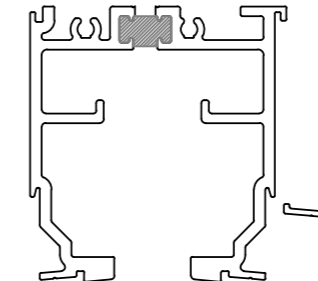
C9454U
Wide Plain Stile



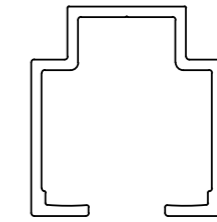
C9445U
88mm Rail



C9381U
60mm Sliding Head/Jamb Track



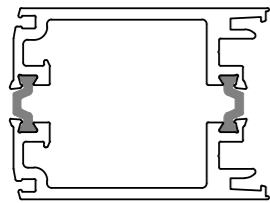
C9387U
Tommaslide 250kg Top Track



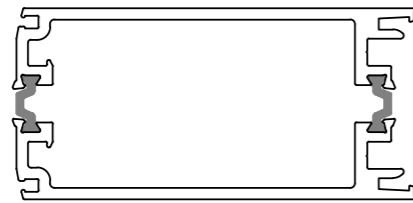
C4940
Facadefold Track



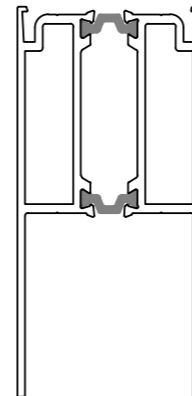
C9388
Track cover



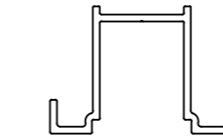
C9441U
Pivot Stile



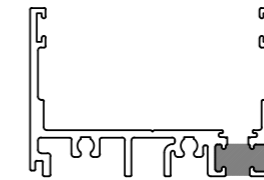
C9455U
Wide Pivot Stile



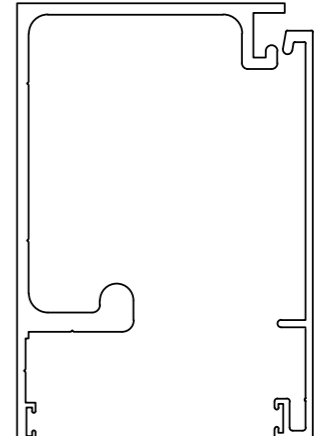
C9446U
120mm Rail



C9382
Closing Jamb infil



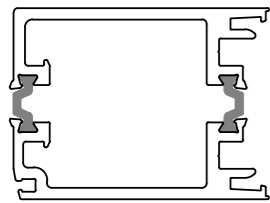
C9383U
44mm Sill Track



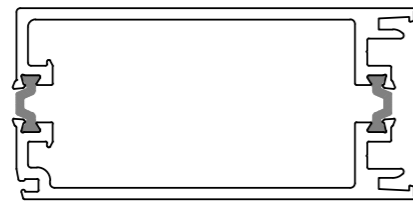
C453
Sliding Door Track



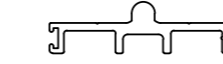
C9389
Pelmet suit 50mm door



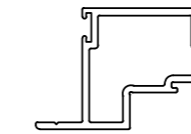
C9450U
Lock Stile



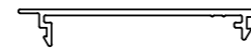
C9456U
Wide Lock Stile



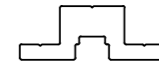
C9384
Snap in Sill track



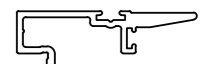
C9392
Track Infil



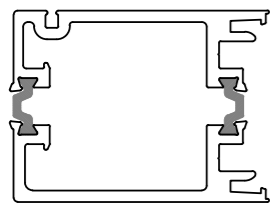
C9391
Thermal Sill Filler



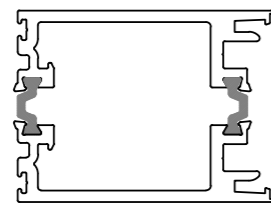
C9390
Top Track Bracket



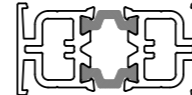
C9386
Sliding Interlock



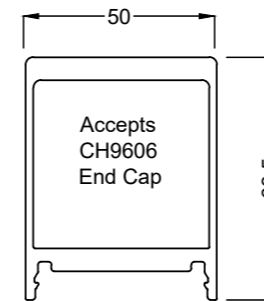
C9442U
Wiper Stile



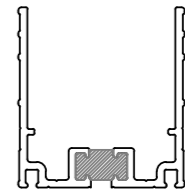
C9449U
Bifold Stile



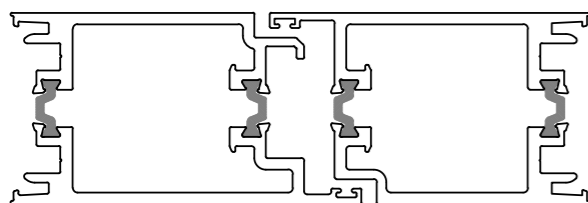
C9447U
60mm Midrail



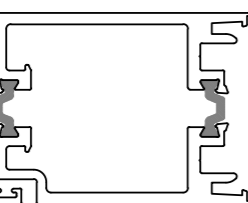
C9728
Plant on Box



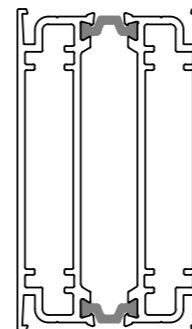
C9394U
Rail Infil & Auto door guide



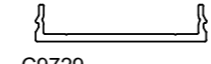
C9443U
Keeper Stile



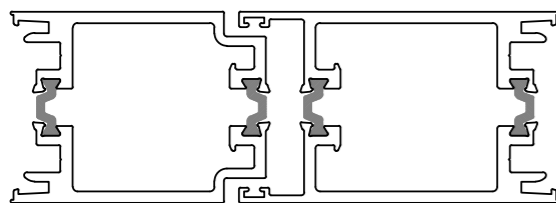
C9444U
Lock Stile (pairs)



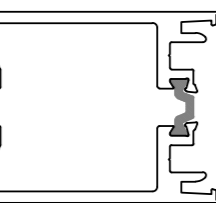
C9448U
120mm Midrail



C9729
Plant on Box Adaptor



C9459U
Male OXXO Stile



C9458U
Female OXXO Stile



C9249
Bead 40 Gap



C9246
Bead 34 Gap



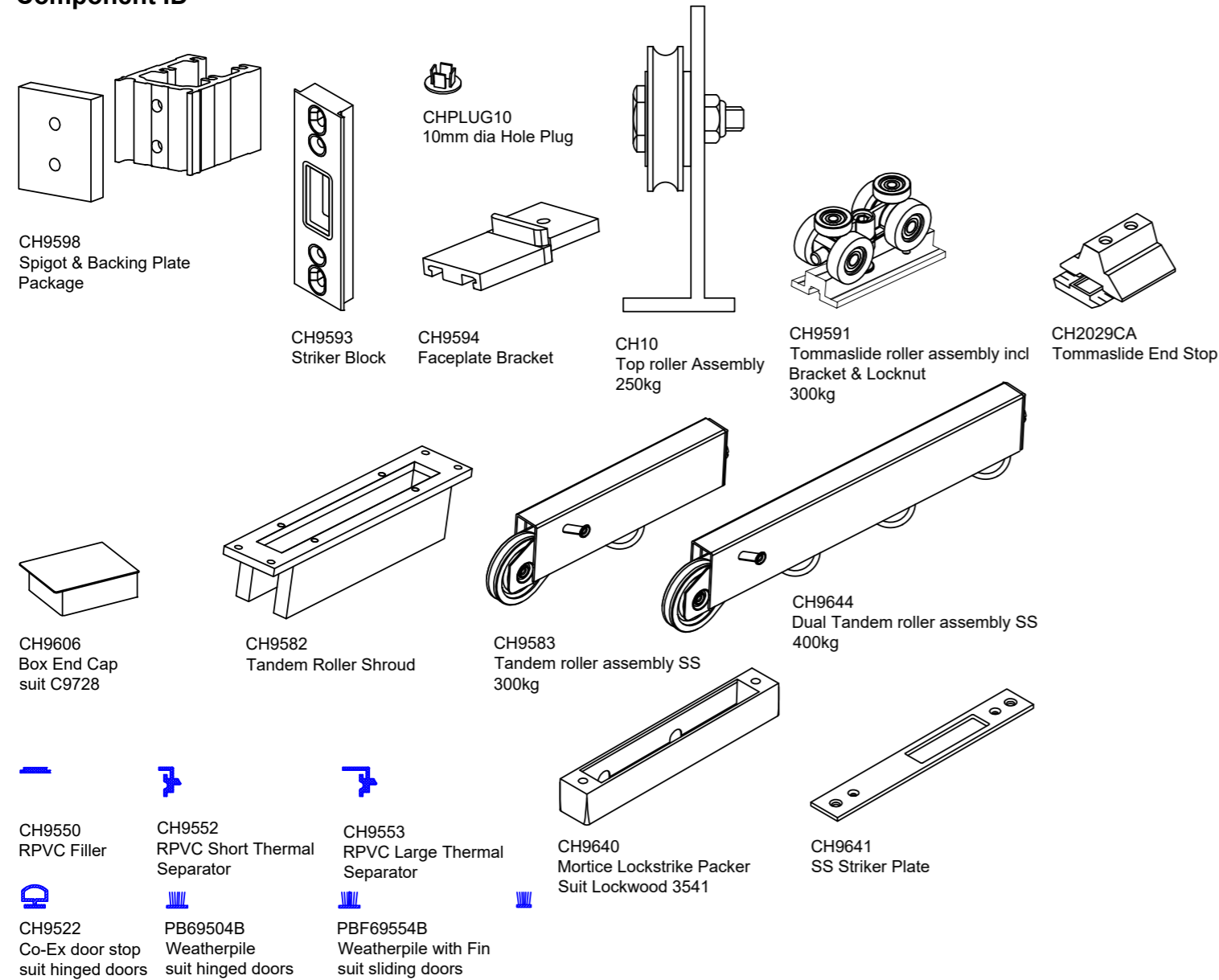
C9247
Bead 19 Gap



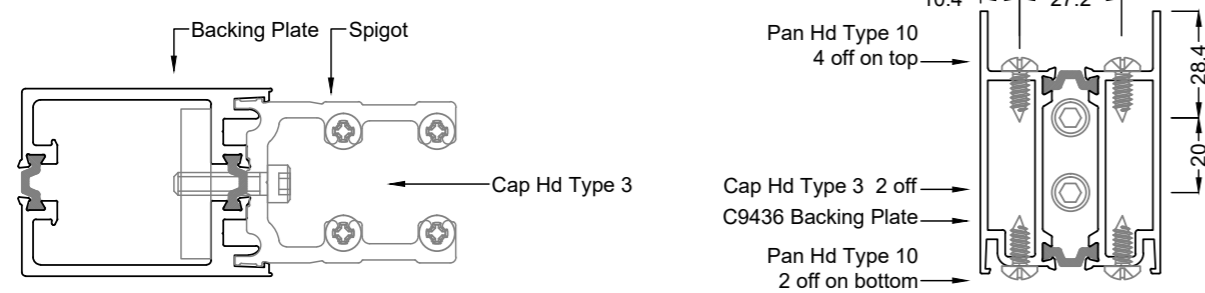
C080
Weatherpile Holder

U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 3
Component ID



CH9598 Door Corner Joinery Package



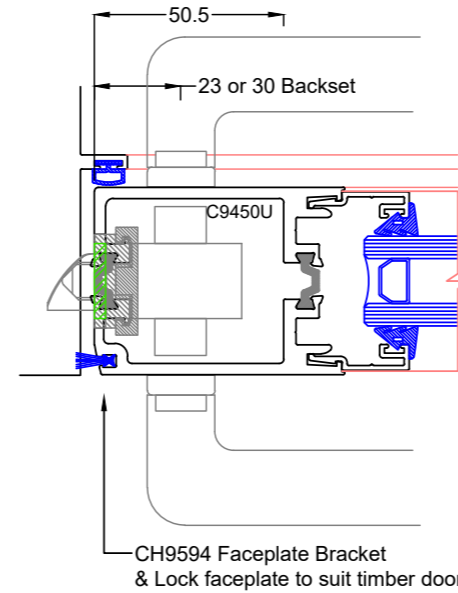
CH9598 Door Corner Joinery Bill of Materials		
Commercial Door Leaf	Part	Qty
	Spigot (ex C9437)	4
	Backing Plate (ex SFL0509)	4
	Cap Hd Type 3 25 x M6 Cap Head spigot fastener	8

Lockwood Door Stile & Lock Options

Narrow stiles accept Lockwood Selector, 3540 or 3580 Series Narrow mortice locks.
Note: All Locks require faceplates to suit timber doors - refer lock assembly page in catalogue.

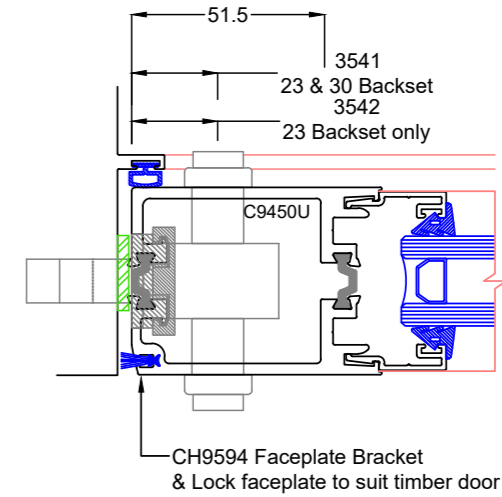
3782 Selector (23 backset)
5782 Selector (30 backset)

Used as self latching hinged doors with lever handles.



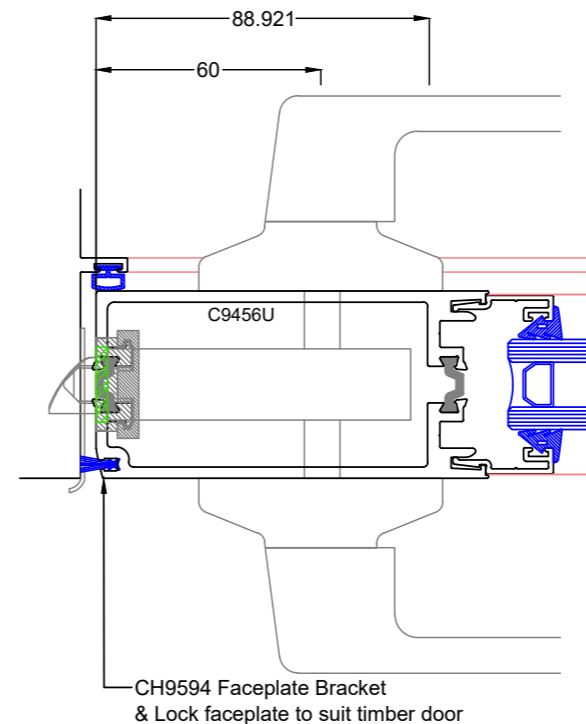
3541 or 3542 Series

Used when self closing (on overhead closer) and non-latching on hinged and pivot doors. Typically this is used in conjunction with push / pull handles.



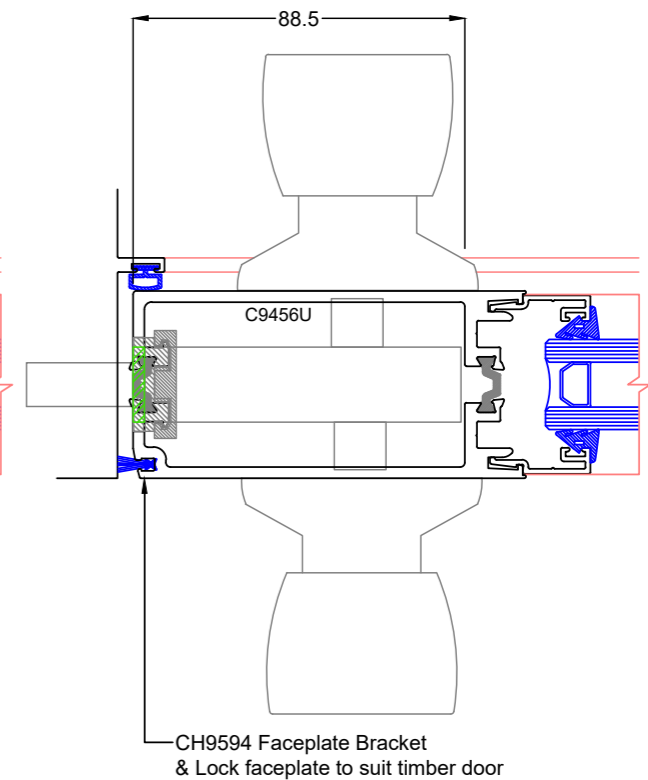
3772 Series with 60mm backset

Used with wide stiles as self latching hinged doors with lever handles.



3570, 3571, 3572 Series with 60mm backset

Used with wide stiles as a hinged door with a variety of furniture options



U-Max™ THERMAL BREAK COMMERCIAL DOORS

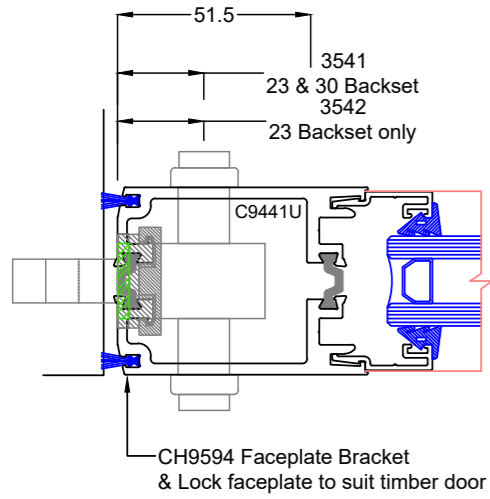
**U-Max Doors: UCOMMDOOR - 4
Lockwood Sliding Door & Lock Options**

Narrow stiles accept Lockwood 3540 or 3580 Series narrow mortice locks.

Note: All Locks require faceplates to suit timber doors - refer lock assembly page in catalogue.

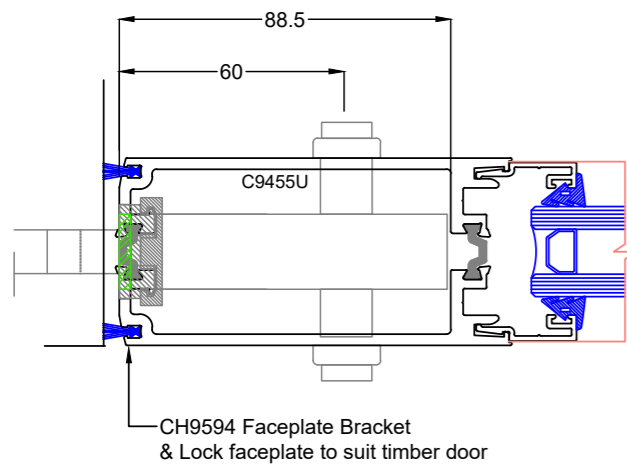
3541 or 3542 Series

Used when self closing (on overhead closer) and non-latching on hinged and pivot doors. Typically this is used in conjunction with push / pull handles.

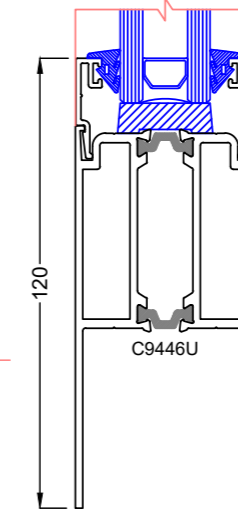
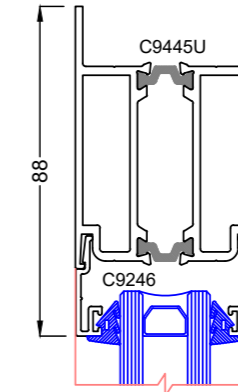
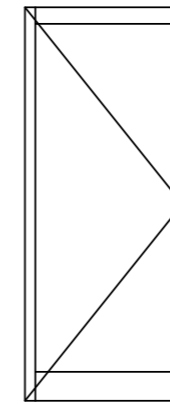


3573 Series with 60mm backset

Used with wide stiles as a sliding door



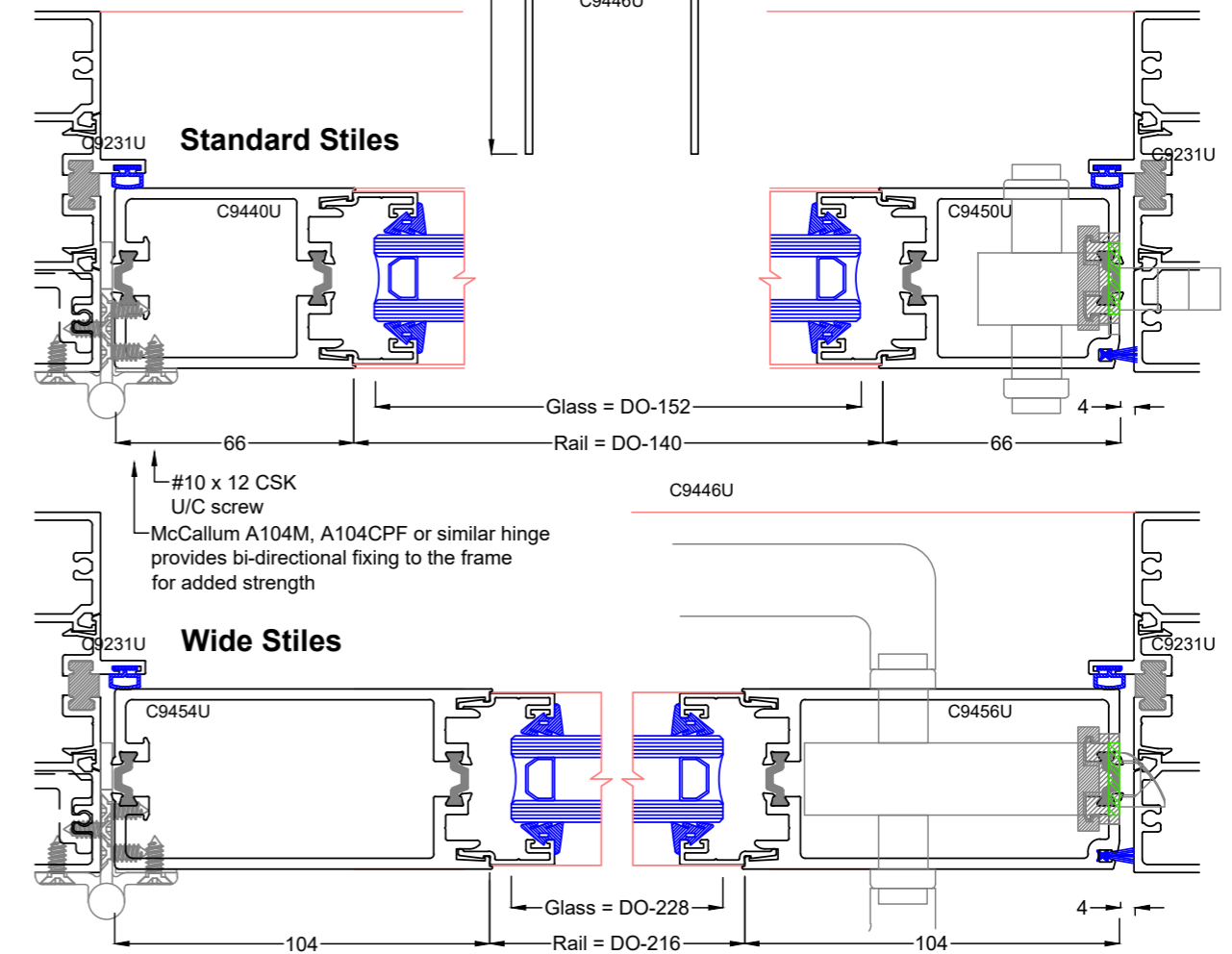
Hinged Door



Note:
Maximum Height: 2700
Maximum Width: 1000
Recommended min 3 hinges per leaf
4 Hinges over 2400

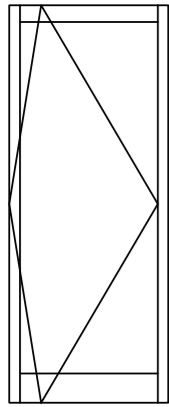
Rail Options

- Doors can be manufactured using the following Rail combinations:
- 88mm Rail at Top & 120mm Rail at Bottom
 - 88mm Rail Top & Bottom
 - 120mm Rail Top & Bottom.
 - The 120mm rail matches the sightline of the door & U-MAX framing midrails.

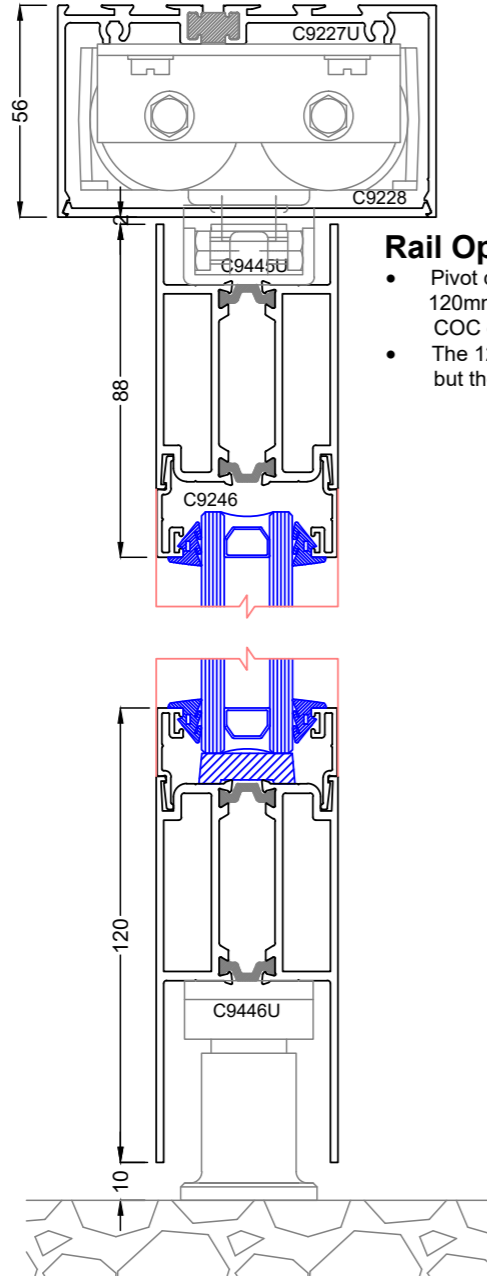


U-Max™ THERMAL BREAK COMMERCIAL DOORS

**U-Max Doors: UCOMMDOOR - 5
Pivot Door**

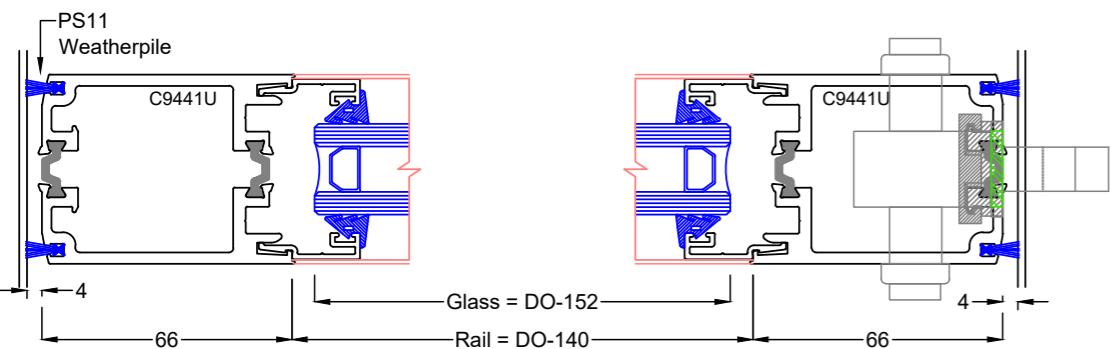


Note:
Maximum Height: 2700
Maximum Width: 1000



Rail Options

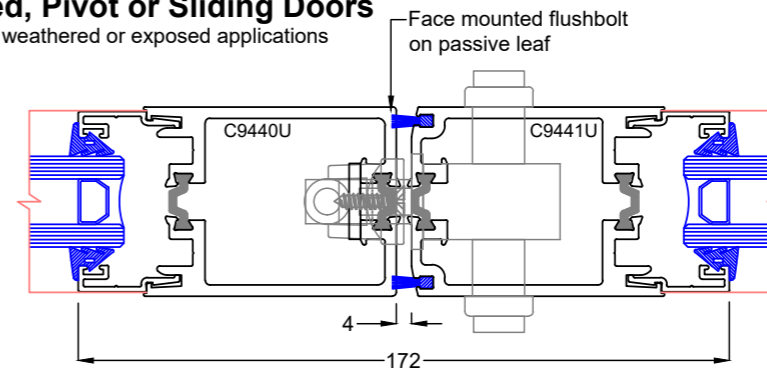
- Pivot doors usually use the 88mm Top rail & 120mm Bottom Rail which best suits standard COC closer hardware.
- The 120mm deep rail can be used top & bottom, but the pivot arm needs to be packed out to suit.



Meeting Stile configurations for Pairs of Doors

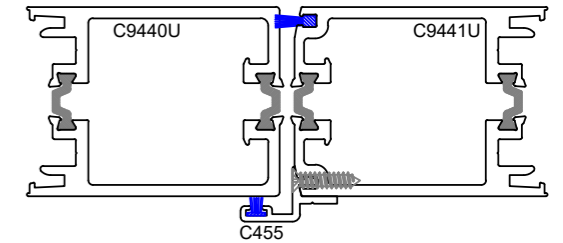
Pairs of Hinged, Pivot or Sliding Doors

Not recommended for weathered or exposed applications



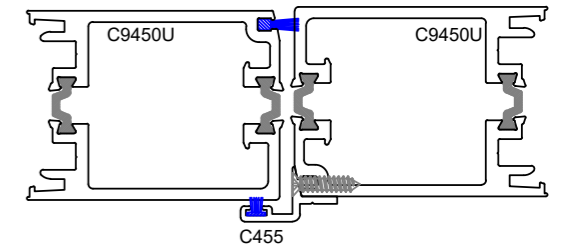
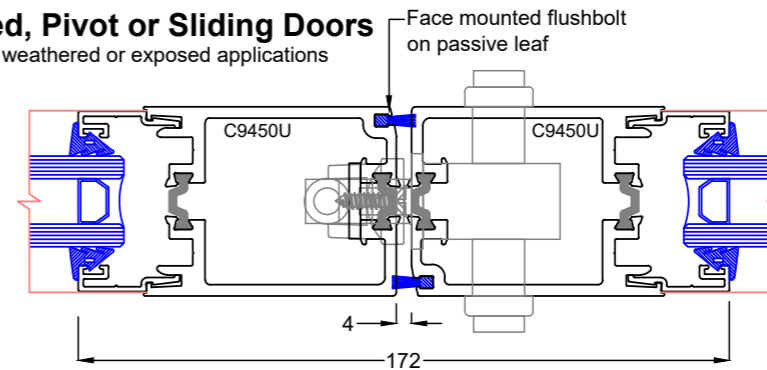
C455 Meeting Stile Adaptor

Can be used for additional security & weathering



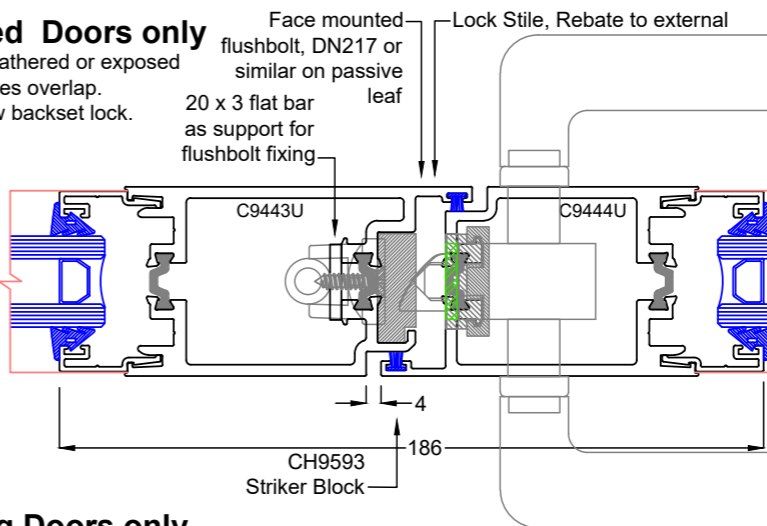
Pairs of Hinged, Pivot or Sliding Doors

Not recommended for weathered or exposed applications



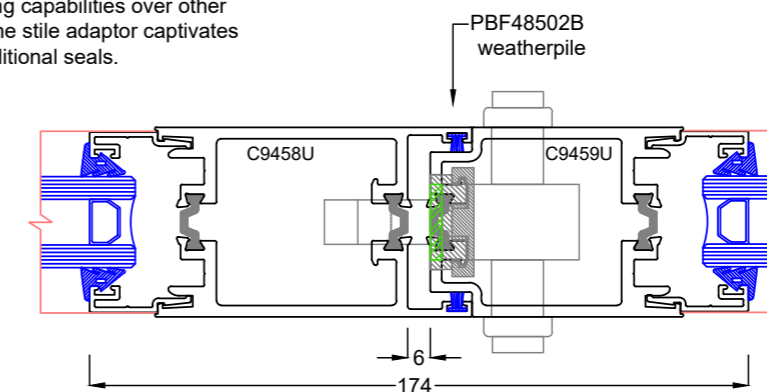
Pairs of Hinged Doors only

Recommended for weathered or exposed applications as the stiles overlap. Requires Lever narrow backset lock.



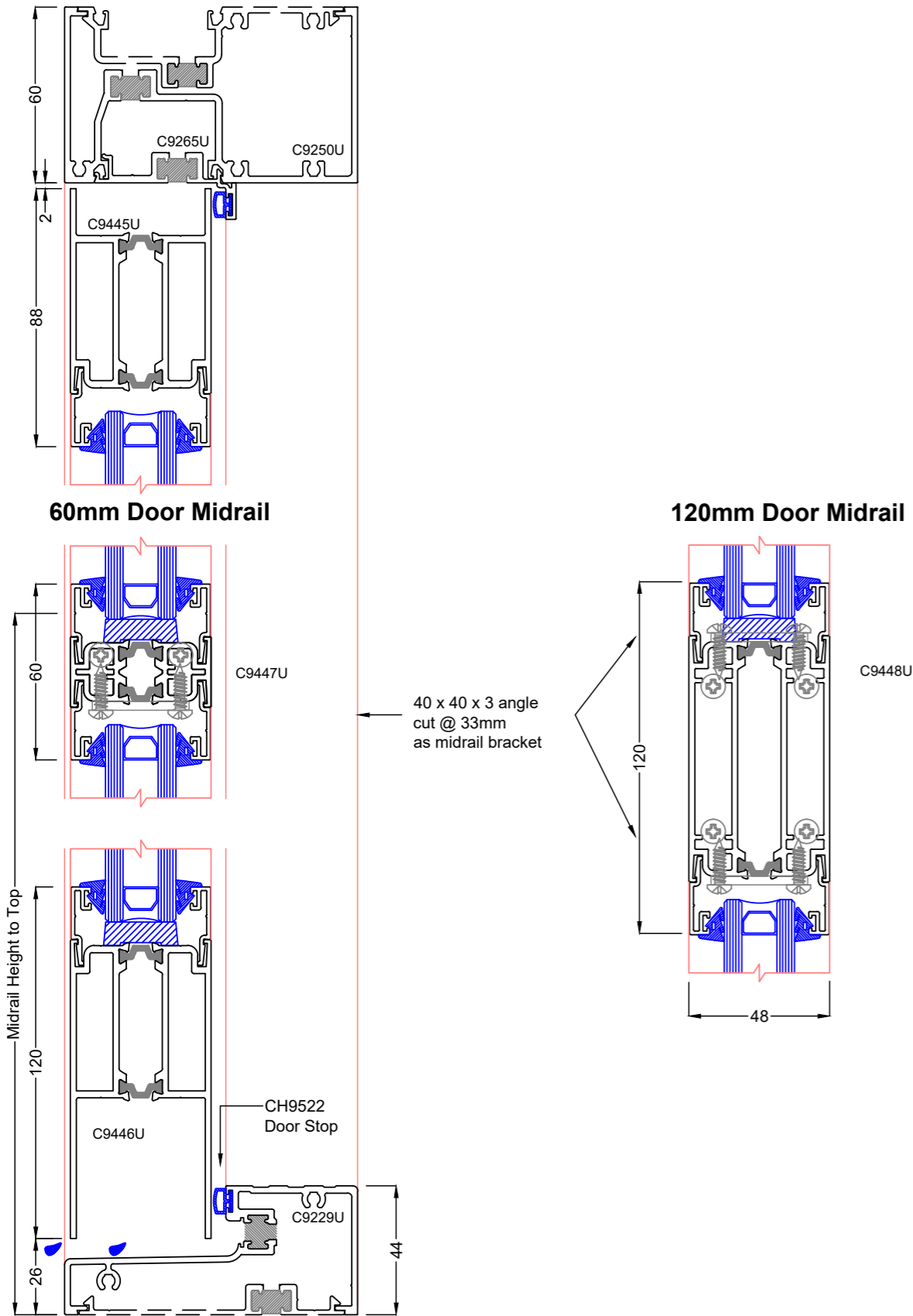
Pairs of Sliding Doors only

Improves the weathering capabilities over other stile combinations as the stile adaptor captivates the lock stile & has additional seals.

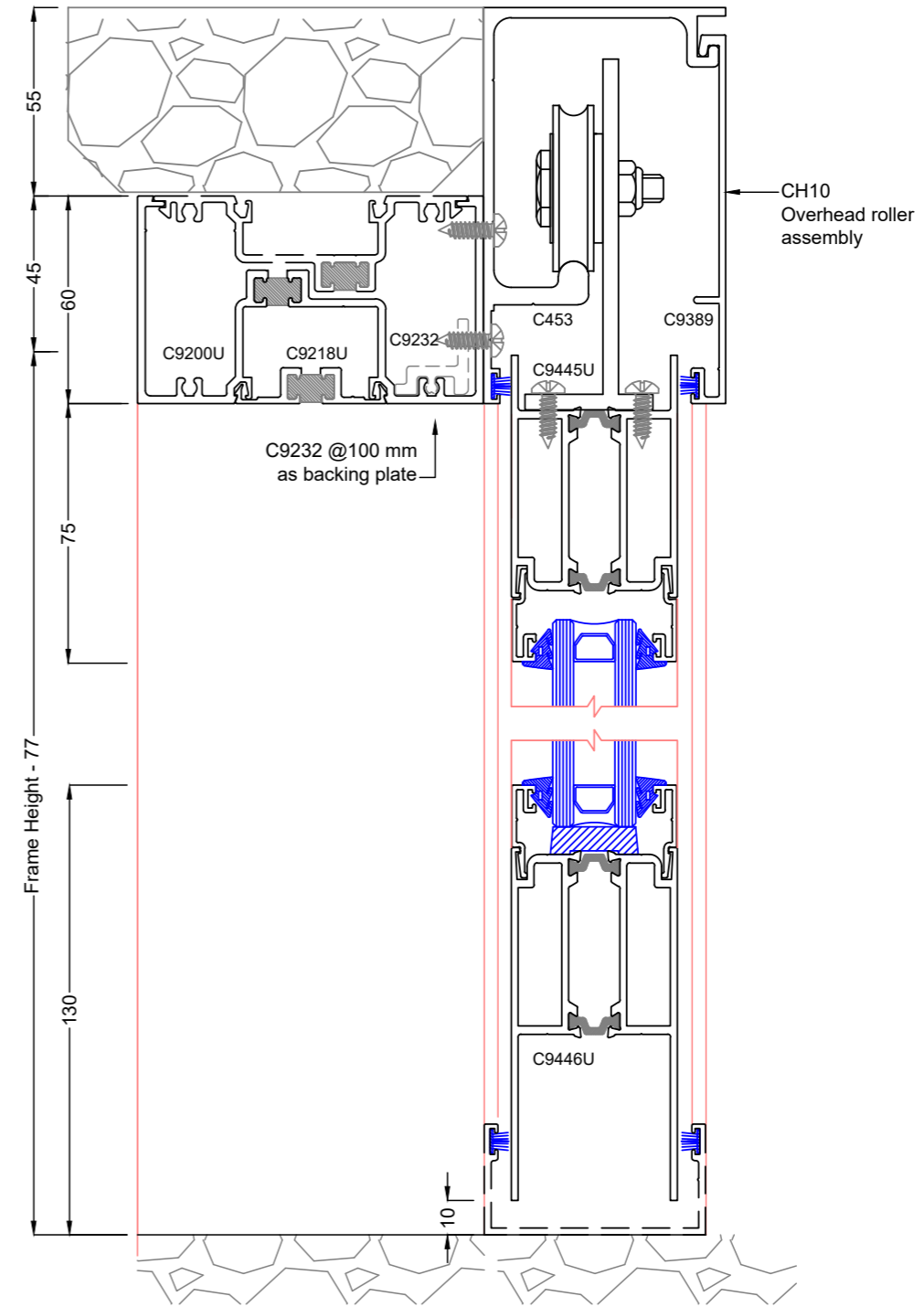


U-Max™ THERMAL BREAK COMMERCIAL DOORS

**U-Max Doors: UCOMMDOOR - 6
Door Midrail Options**



Sliding Top Track - 250kg Panel Weight



Note:

- Adaptable to all U-MAX Framing Systems
- Track usually fitted internally
- Easy adjustment with removable track pelmet
- Single sliding panel or pairs of panels
- Cannot be used as multi slide
- Height & width of panel limited by weight & strength of interlocking mullion or stile
- Can be used with C9383 sill track (see 100CDG for more details)
- Maximum Height: 2700
- Maximum Width: 2000
- Maximum weight per leaf: 250kg

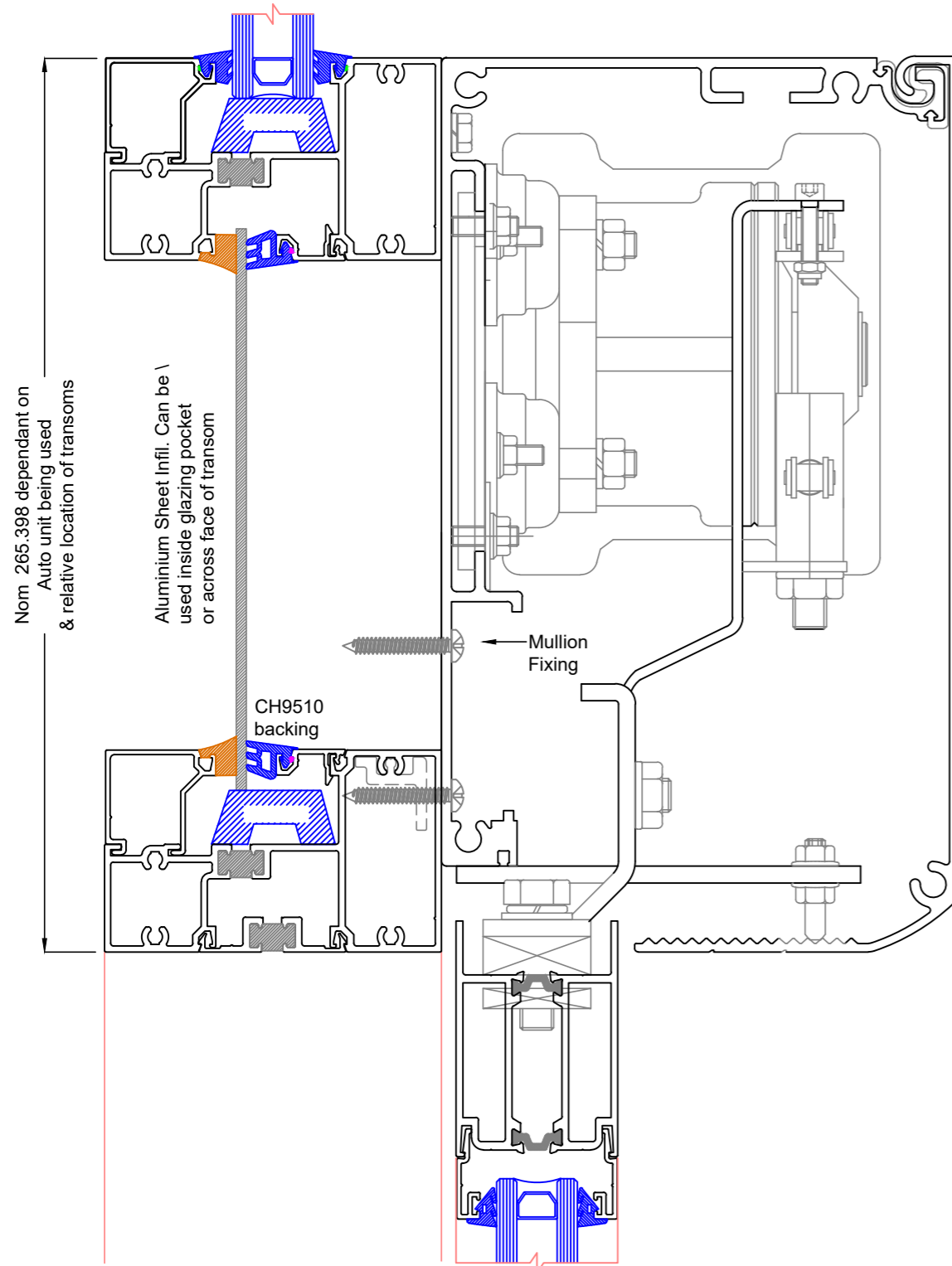
U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 7

Auto Door Detail

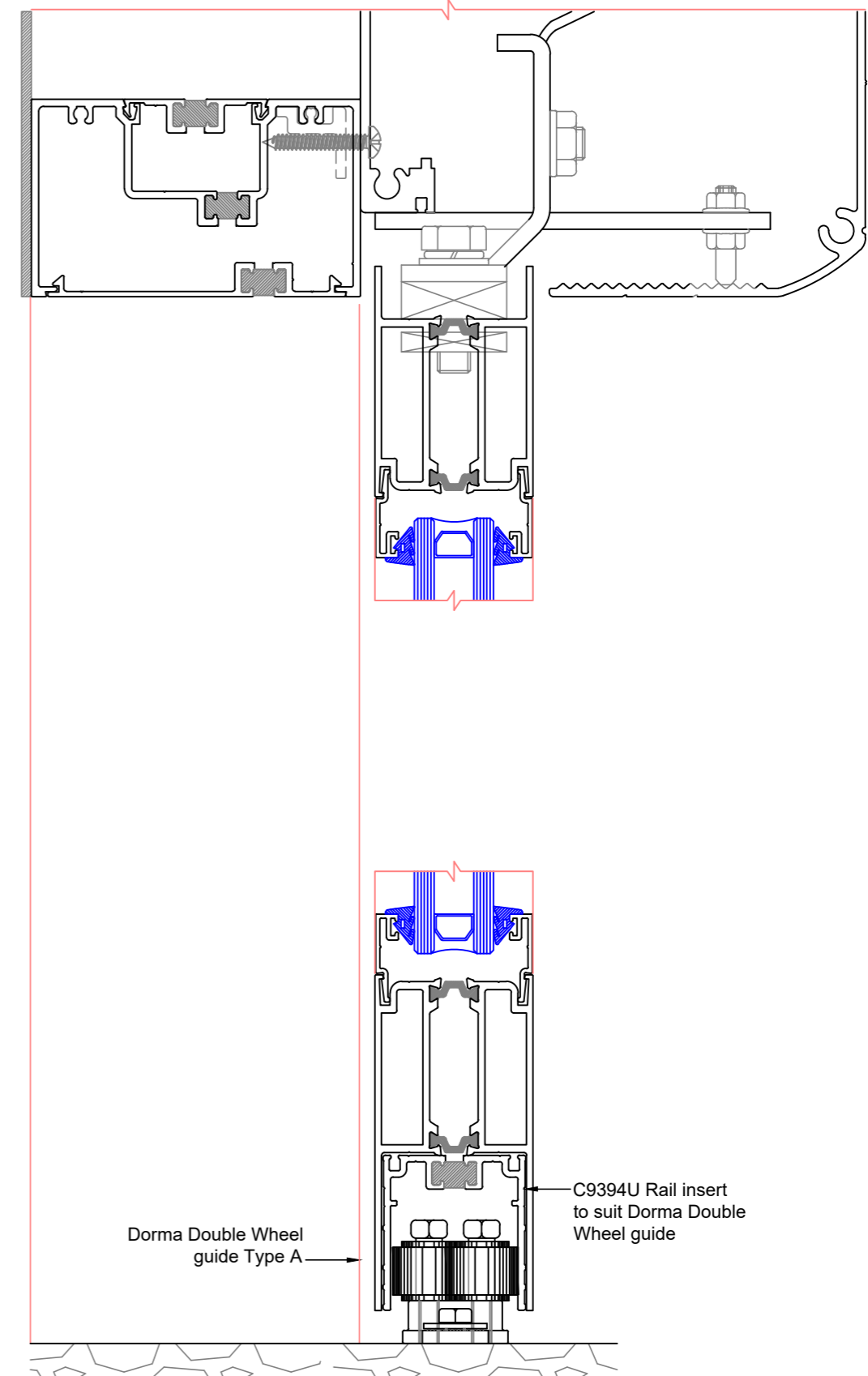
Dorma EL301 depicted. Usually used with double transoms as shown which offers multiple fixing locations for the track & stability of the unit itself.

Usually used with aluminium sheet externally which can be fixed over the face or inside the glazing pocket.



Auto Door Detail

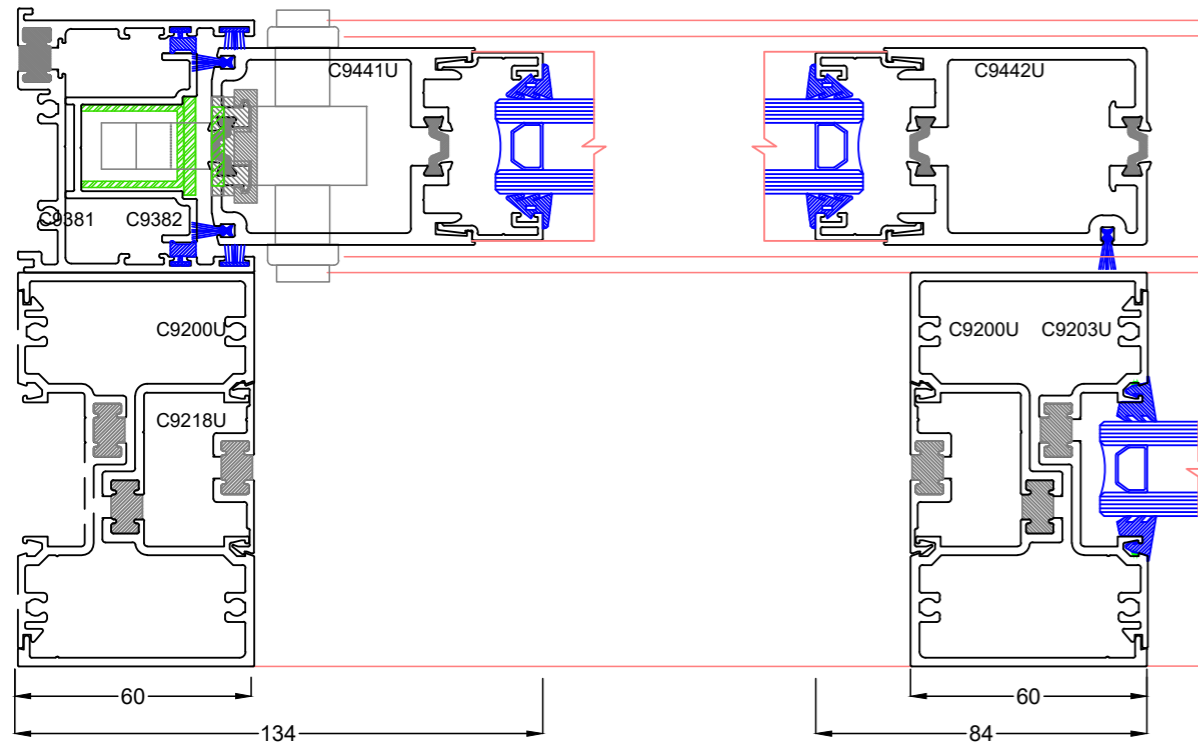
Showing aluminium sheet fixed to face of frame.



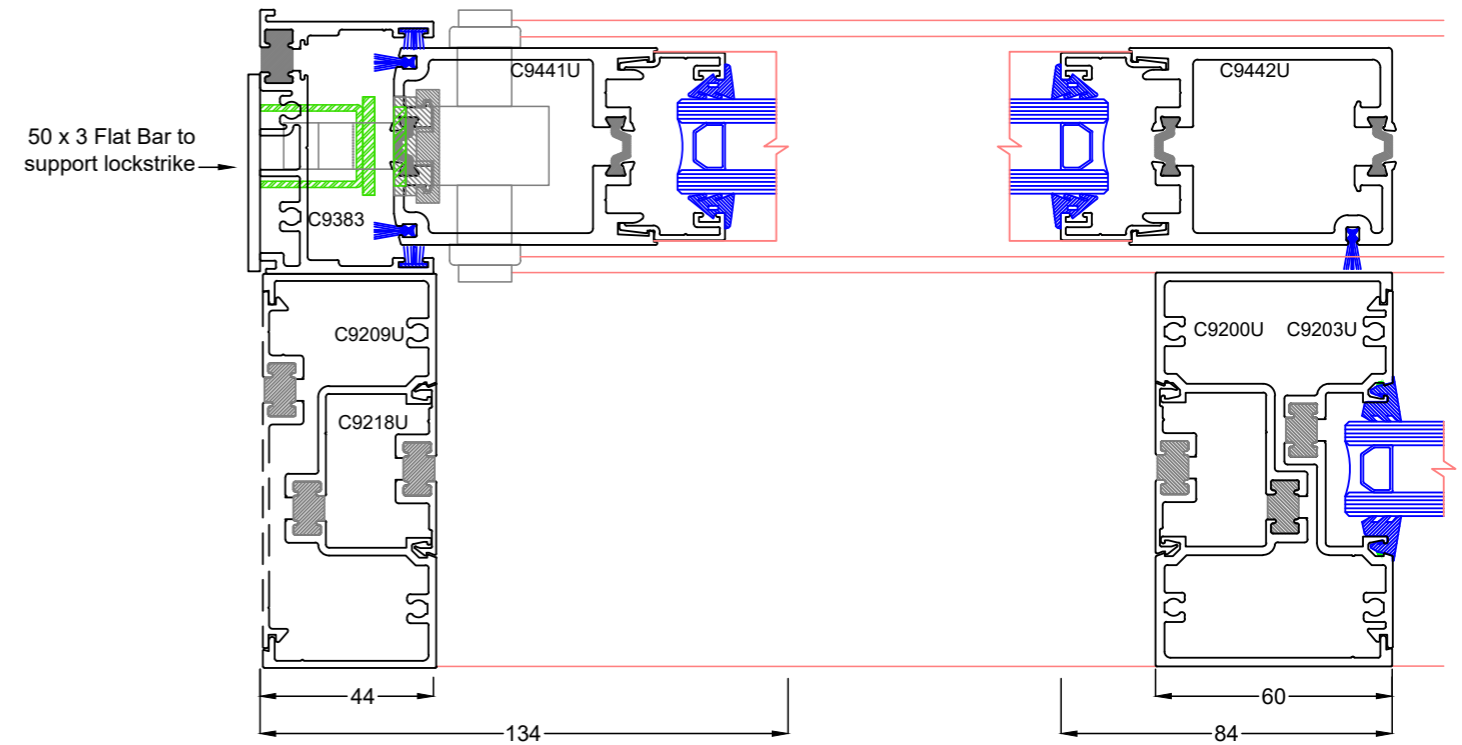
U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 8

Sliding Door - 100 Centre Glaze - 60mm Closing Jamb

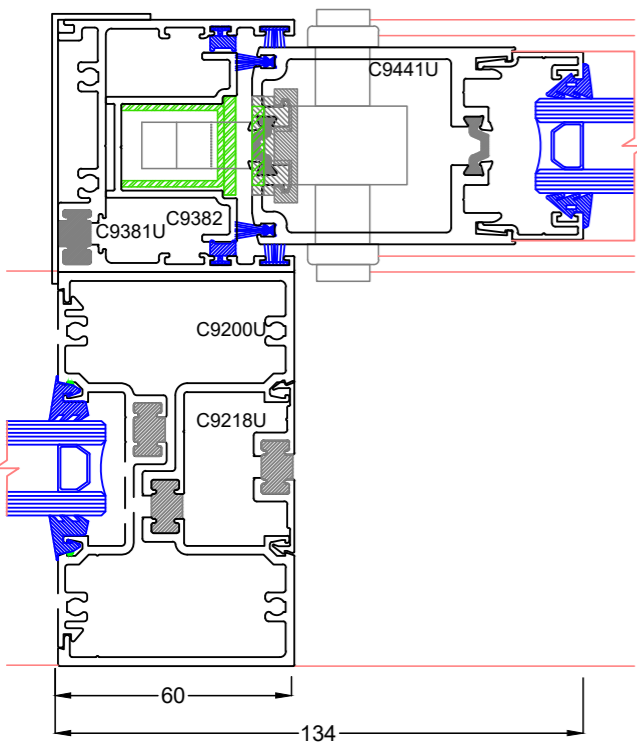


Sliding Door - 100 Centre Glaze - 44mm Closing Jamb

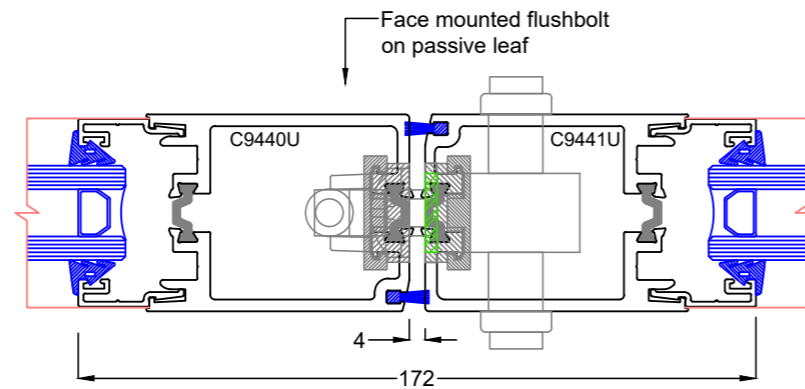


Sliding Door closing to mullion.

70 x 25 x 1.5 angle laid across back for aesthetics.
Note that C9381U is shown (thermally broken).
Technically it does not require it in this situation as the channel is already inside the thermal break line of the frame.

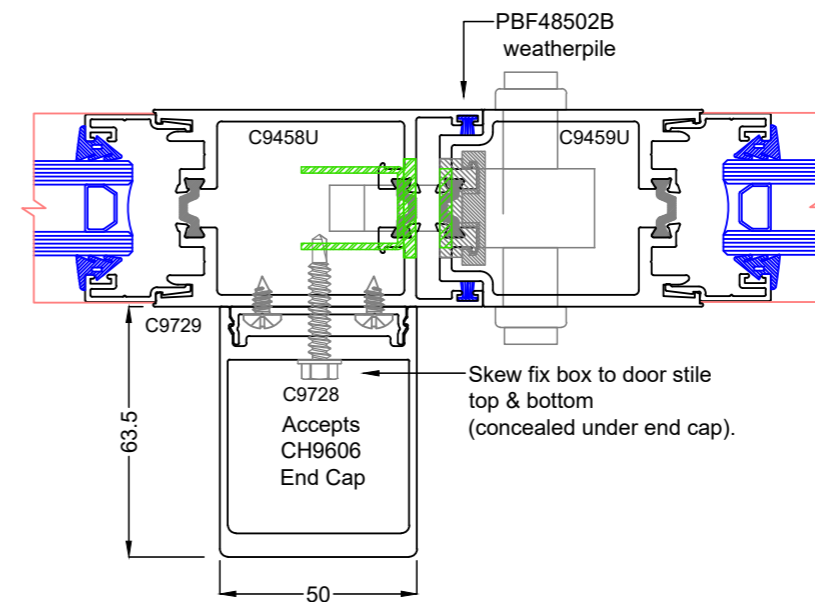


Standard Meeting Stile detail



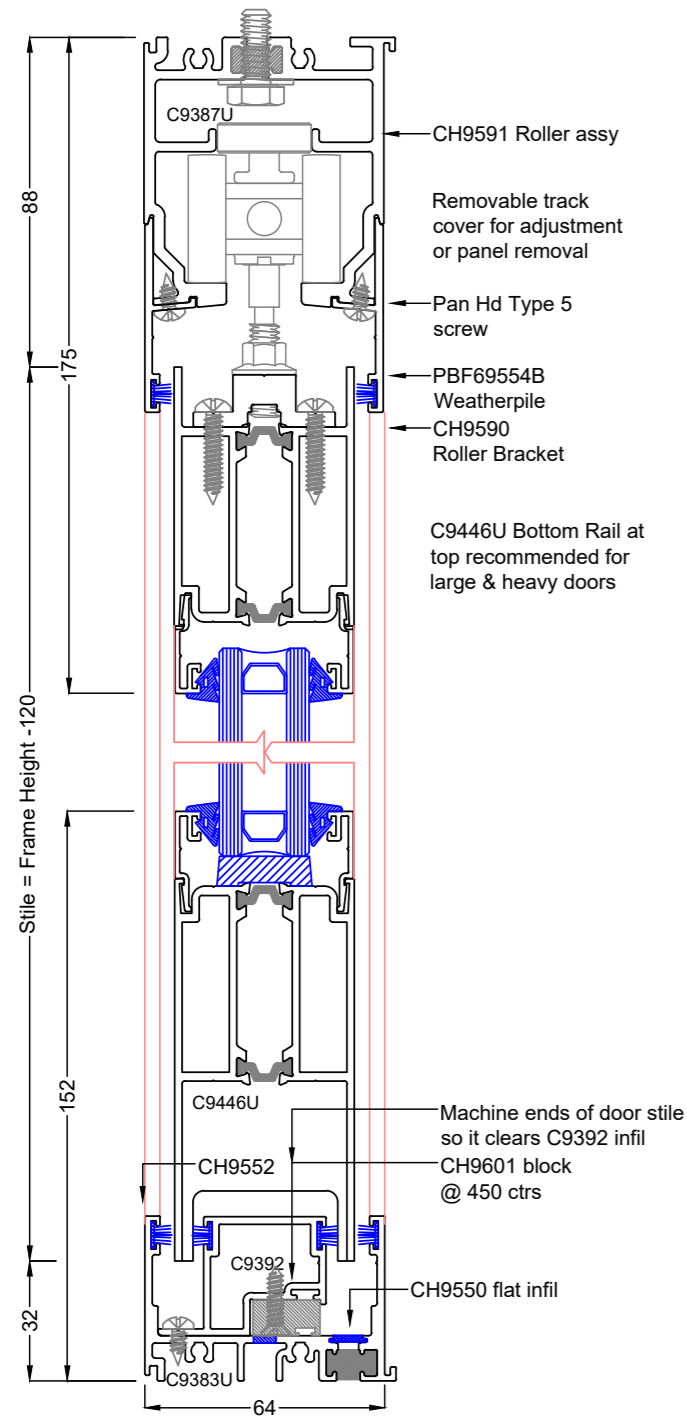
Weathered / Structural Meeting Stile

This is an alternative detail to the standard meeting stile & provides additional security & weathering.
An optional detail is the structural plant on box which allows improved structural performance for large door panels (say over 2700 x 900) - refer structural chart.



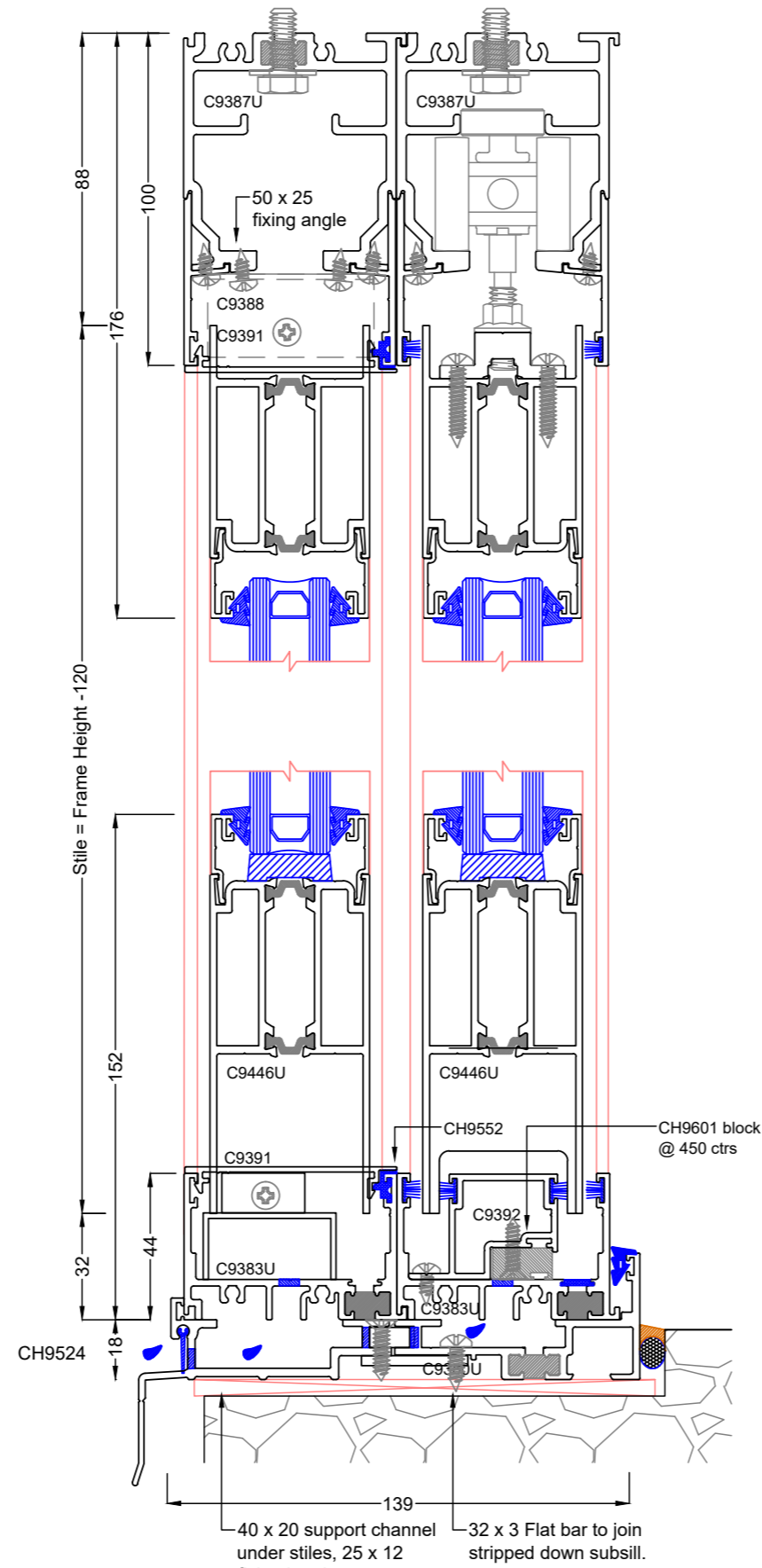
U-Max™ THERMAL BREAK COMMERCIAL DOORS

**U-Max Doors: UCOMMDOOR - 9
Sliding Top Track - 250kg panel weight**

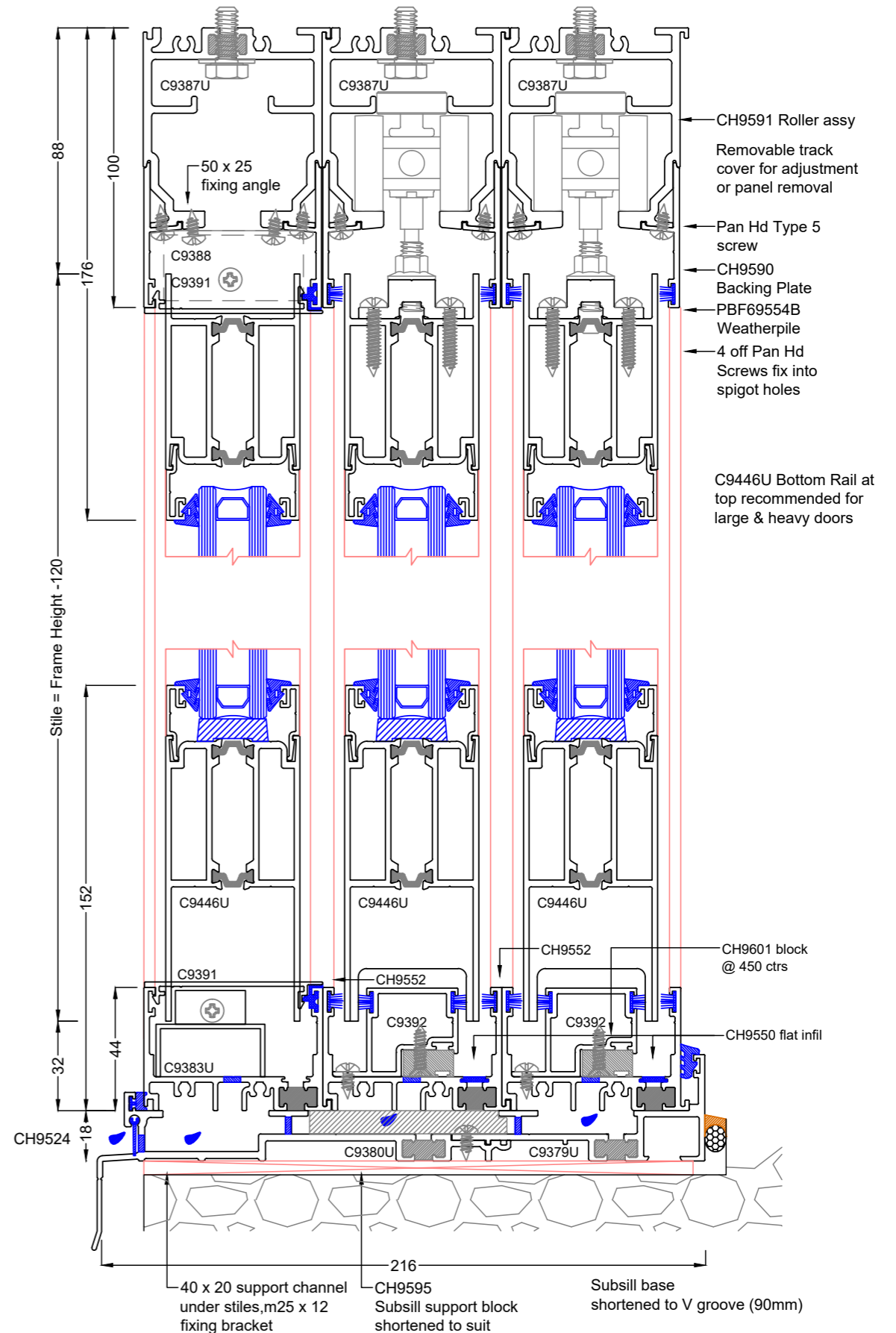


- Note:
- Adaptable to all U-MAX Framing Systems
 - Primary sliding panel can be on external or internal track
 - Replaceable track
 - 2 part subsill caters for 4 tracks
 - 50mm diameter roller caters for heavy weights & smoother operation
 - Single or multiple stacking tracks
 - Suited to cavity door applications
 - Used with C9383 sill track (see 100CDG for more details)
 - Size of panels limited to strength of meeting stiles
 - Maximum Height: 2700
 - Maximum Width: 2000
 - Maximum weight per leaf: 250kg

Slider / Fixed 2 panel - max 250kg panel weight



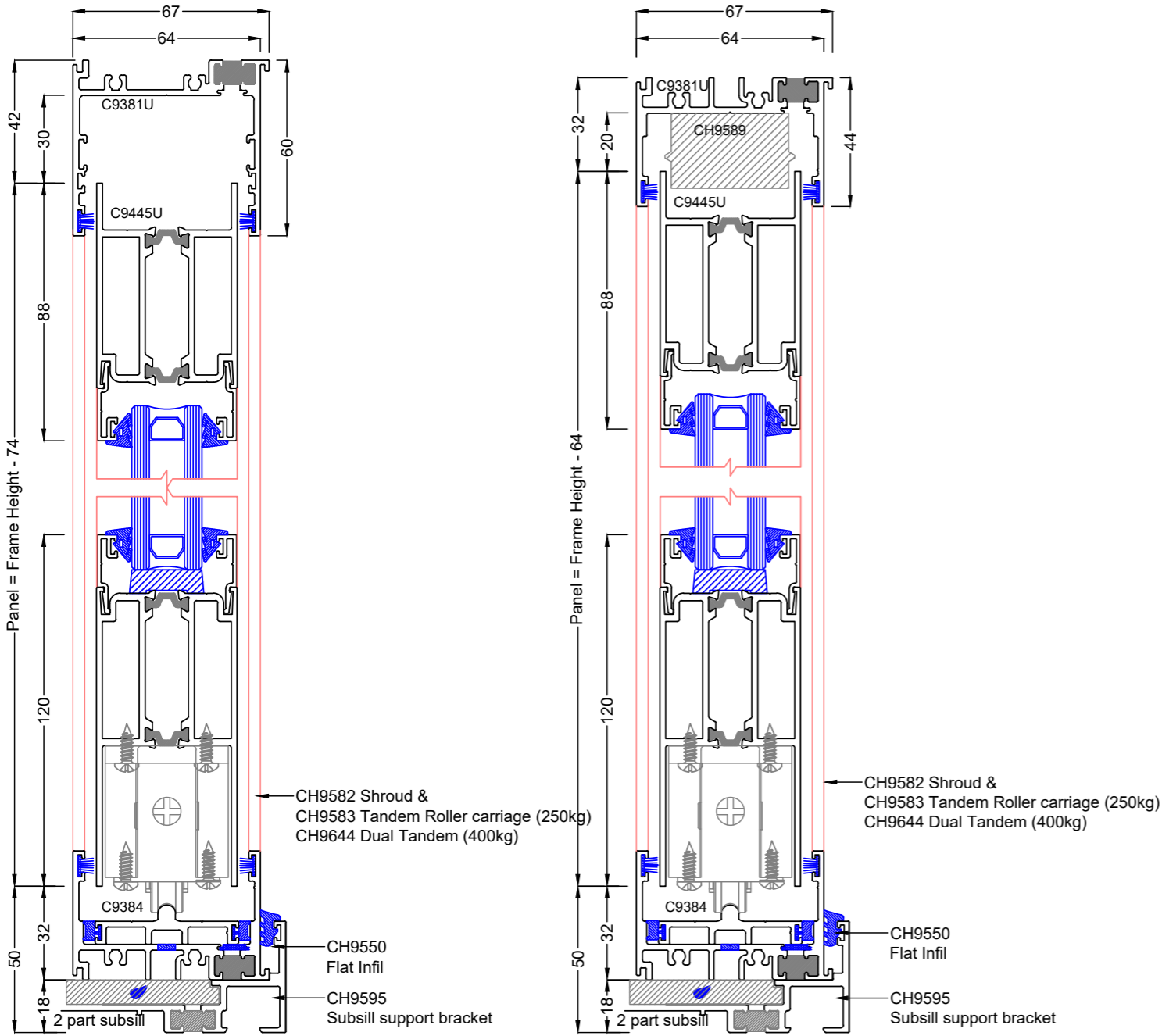
Multi Sliding Top Track - max 250kg panel weight



U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 10

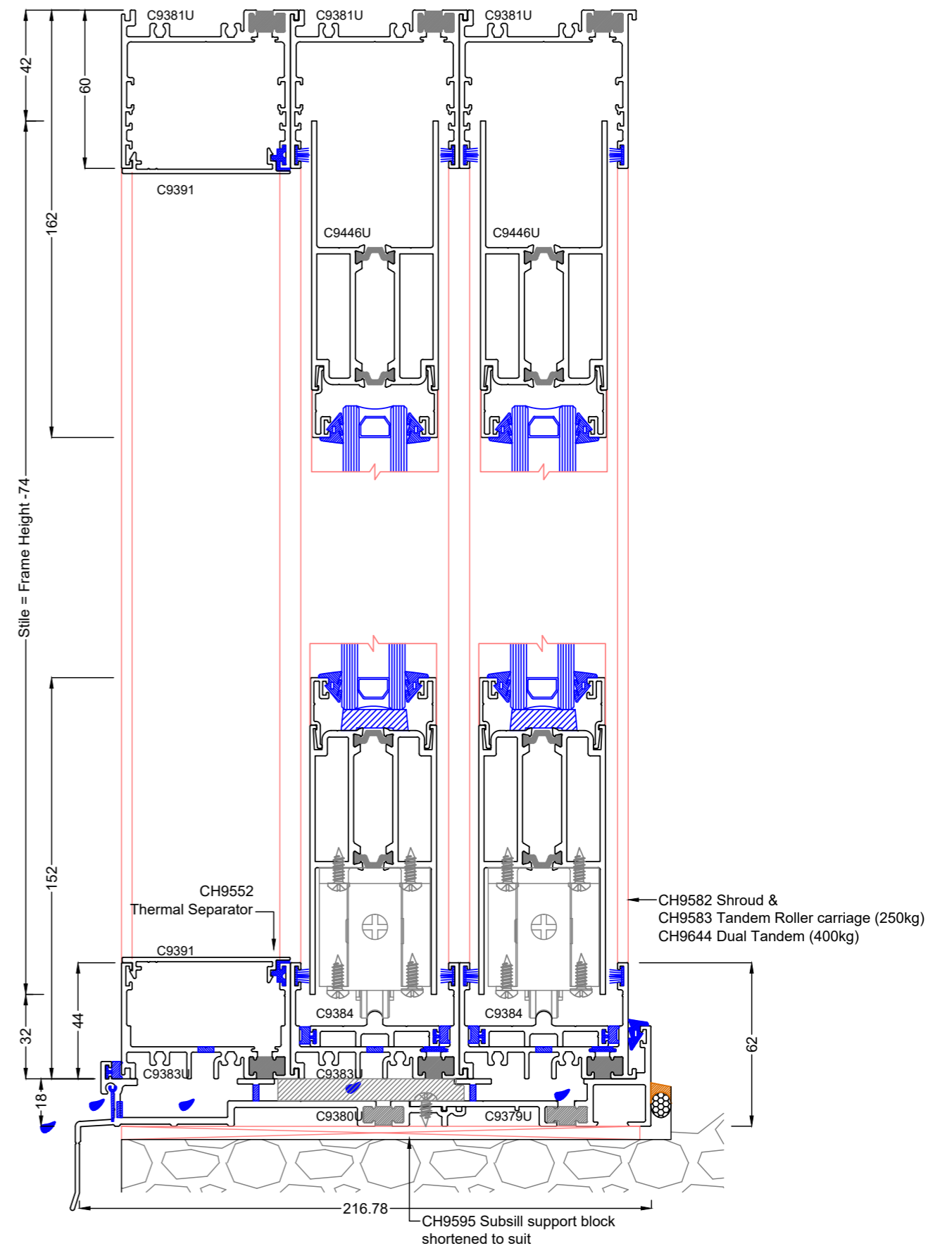
Sliding Bottom Track - 250kg / 400kg Panel Weight 44mm Head Track & 44 Sill track
60mm Head Track & 44 Sill track



Note:

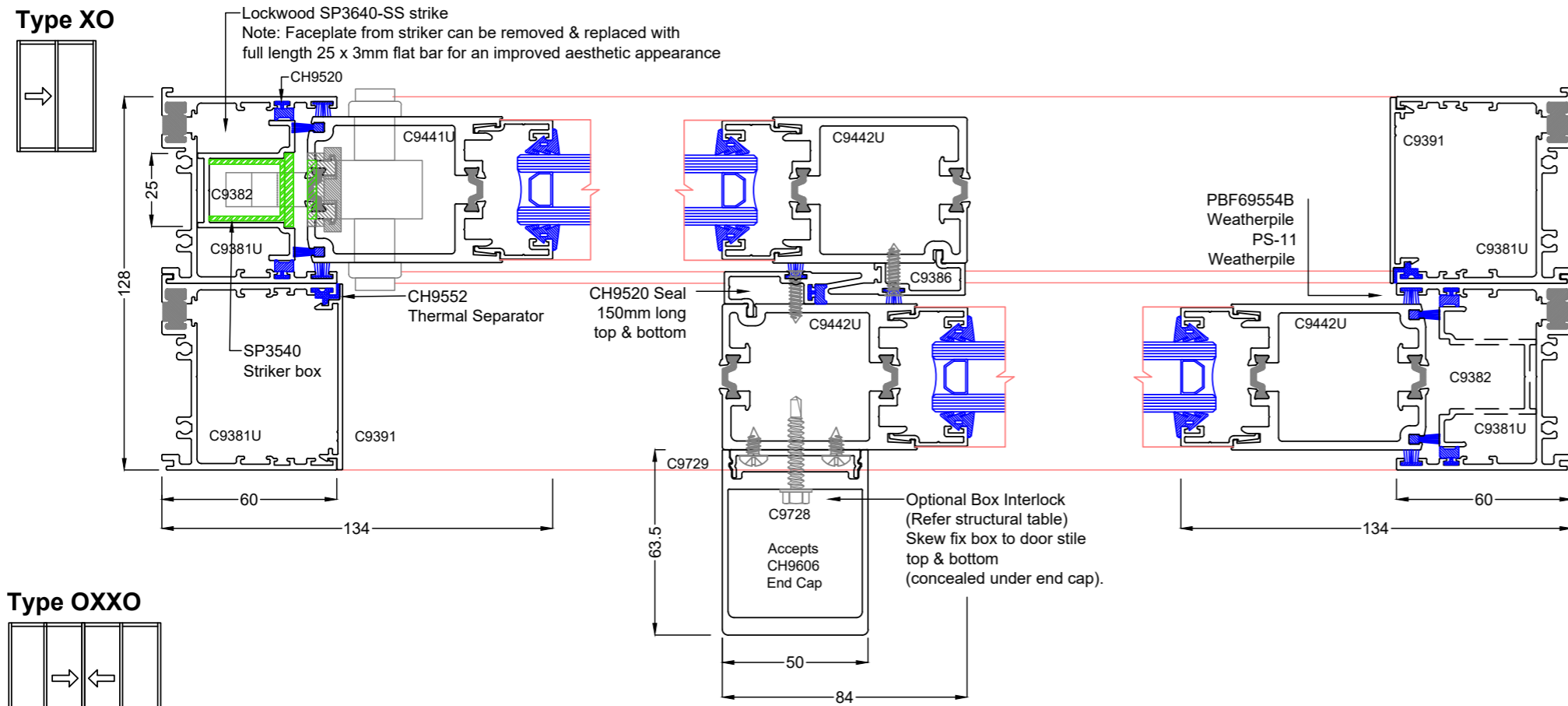
- Adaptable to all U-MAX Framing Systems
- Primary Track usually fitted internally
- Single or multiple stacking tracks
- Suited to cavity door applications
- Track cover removable in all configurations for adjustment
- Used with C9383 sill track (see 100CDG for more details)
- Size of panels limited to strength of meeting stiles
- Maximum Height: 2700
- Maximum Width: 2000
- Maximum weight per leaf: 250kg
- Panel height must not exceed 2.5 times panel width as the panel can be unstable - use top hung door instead

Multi Sliding Bottom Track - 250kg / 400kg panel weight

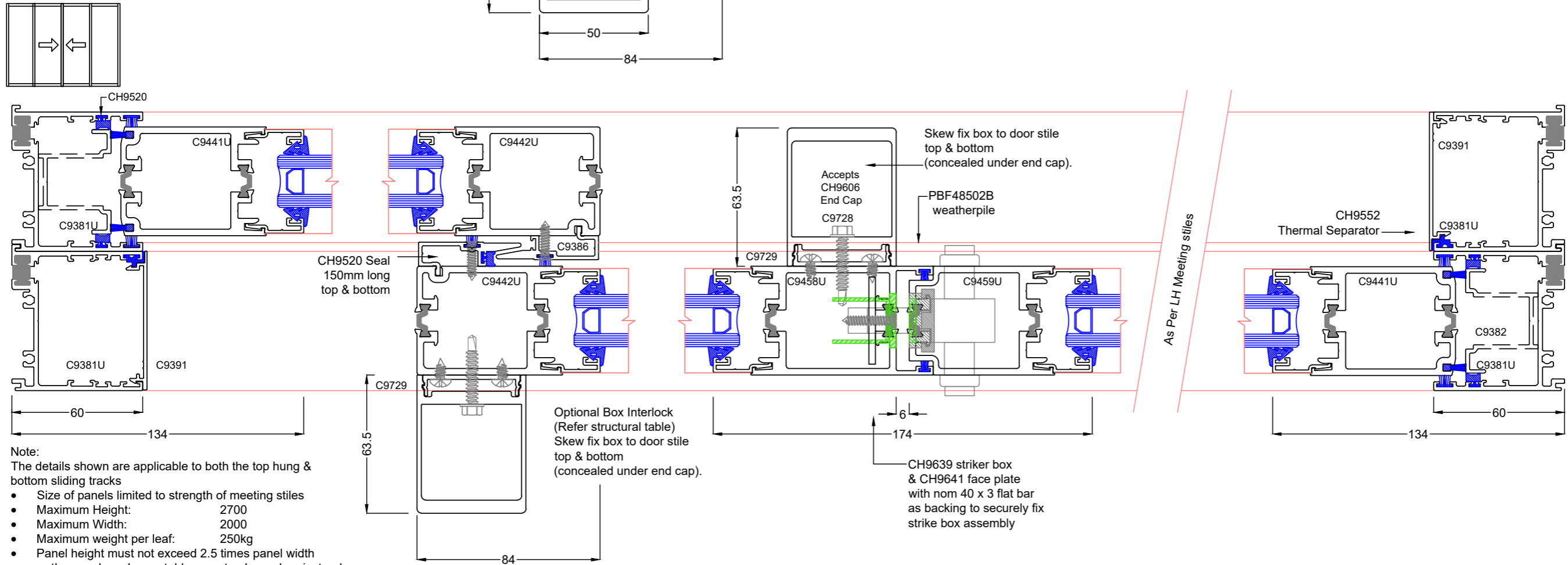


U-Max™ THERMAL BREAK COMMERCIAL DOORS
U-Max Doors: UCOMMDOOR - 11
Sliding Door with Fixed door panel in complete frame

Type XO



Type OXXO



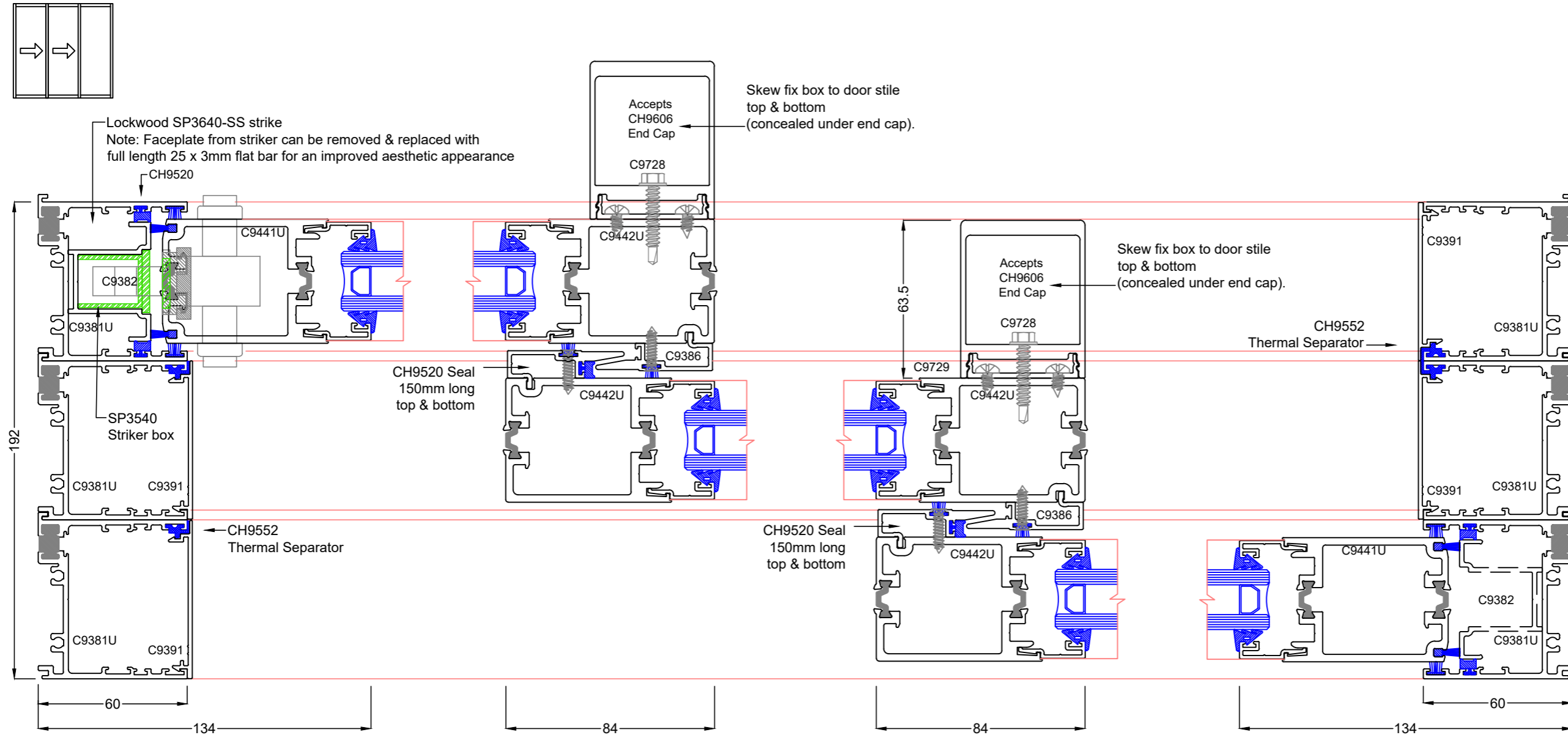
Note:
The details shown are applicable to both the top hung & bottom sliding tracks

- Size of panels limited to strength of meeting stiles
- Maximum Height: 2700
- Maximum Width: 2000
- Maximum weight per leaf: 250kg
- Panel height must not exceed 2.5 times panel width as the panel can be unstable - use top hung door instead

U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 12 Sliding Door with stacking panels

Type XXO



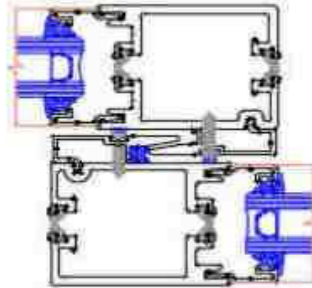
- Note:
The details shown are applicable to both the top hung & bottom sliding tracks
- Size of panels limited to strength of meeting stiles
 - Maximum Height: 2700
 - Maximum Width: 2000
 - Panel height must not exceed 2.5 times panel width as the panel can be unstable - use top hung door instead
 - Maximum weight per leaf: 250kg

U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 13
Meeting Stile Structural Table

Interlock Structural Table

Interlock Combination: U-Max 50mm Door Type 1 (C9386,C9442U,C9246)



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.

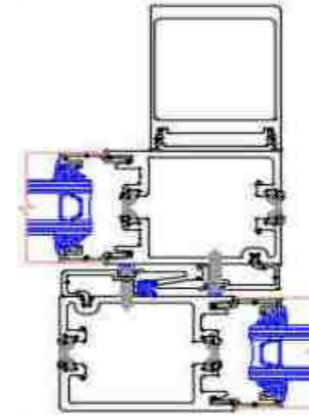
This chart is to be used as a guide only. Where Serviceability exceeds 3kPa or for more information, contact Capral.

Frame Height (mm)		Design Wind Pressure (Pa)							
2100	S	1655	1419	1241	1103	993	903	827	764
	U	3723	3192	2793	2482	2234	2031	1862	1719
2200	S	1328	1138	996	885	797	724	664	613
	U	3393	2908	2545	2262	2036	1851	1696	1566
2300	S	1073	920	805	716	644			
	U	3104	2661	2328	2069	1862			
2400	S	873	748	655					
	U	2851	2444	2138					
2500	S	714	612						
	U	2627	2252						
Panel Width Centres (mm)		1200	1400	1600	1800	2000	2200	2400	2600

Meeting Stile Structural Table

Interlock Structural Table

Interlock Combination: U-Max 50mm Door Type 2 (C9728,C9729,C9386,C9442U,C9246)



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.

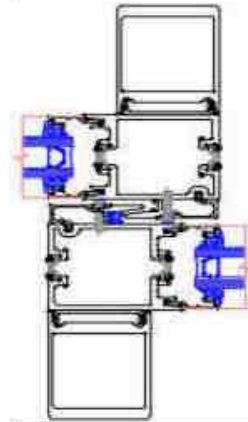
Frame Height (mm)		Design Wind Pressure (Pa)							
2100	S	2851	2444	2138	1901	1711	1555	1426	1316
	U	4717	4043	3538	3145	2830	2573	2359	2177
2200	S	2288	1961	1716	1525	1373	1248	1144	1056
	U	4298	3684	3224	2866	2579	2345	2149	1984
2300	S	1849	1585	1387	1233	1110	1009	925	854
	U	3933	3371	2949	2622	2360	2145	1966	1815
2400	S	1504	1289	1128	1003	903	820	752	694
	U	3612	3096	2709	2408	2167	1970	1806	1667
2500	S	1230	1055	923	820	738	671	615	
	U	3329	2853	2496	2219	1997	1816	1664	
2600	S	1011	867	758	674	607			
	U	3077	2638	2308	2052	1846			
2700	S	835	715	626					
	U	2854	2446	2140					
2800	S	692							
	U	2654							
Panel Width Centres (mm)		1200	1400	1600	1800	2000	2200	2400	2600

U-Max™ THERMAL BREAK COMMERCIAL DOORS

**U-Max Doors: UCOMMDOOR - 14
Meeting Stile Structural Table**

Interlock Structural Table

Interlock Combination: UMax 50mm Door Type 3 (C9728,C9729,C9386,C9442U,C9246)



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

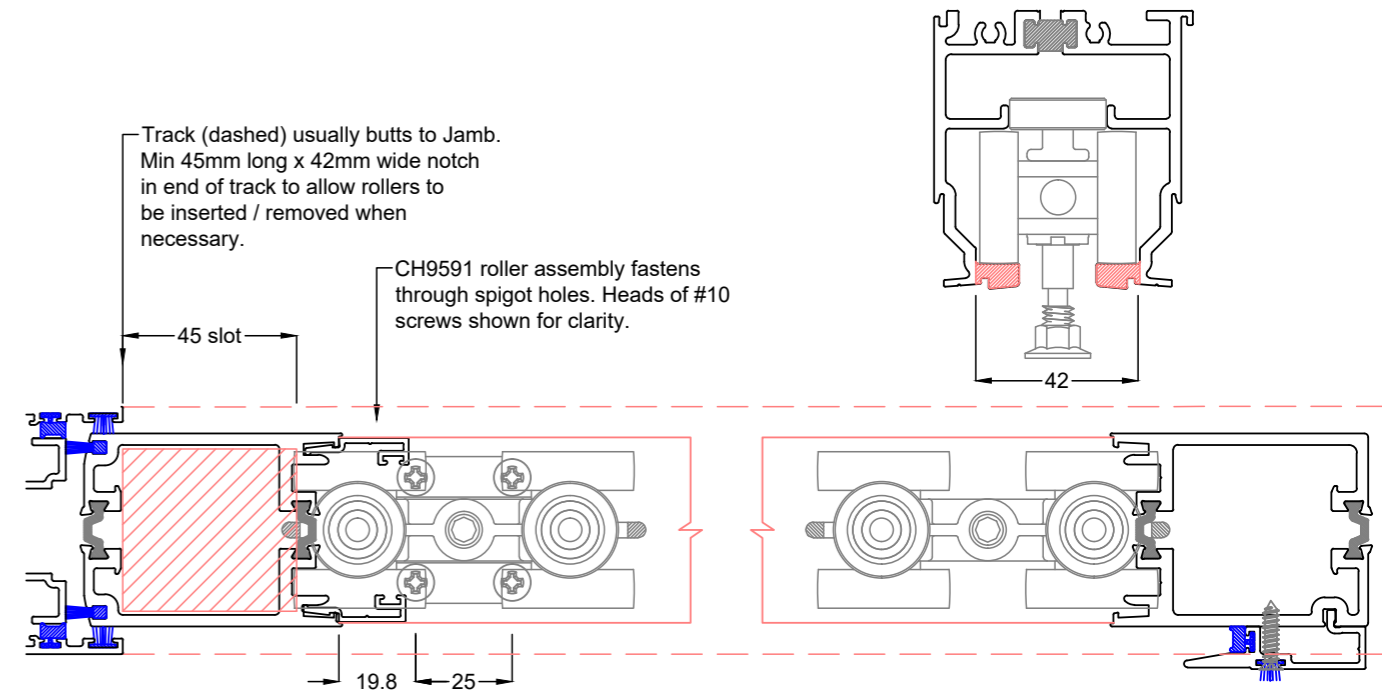
Note the following:

- 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.

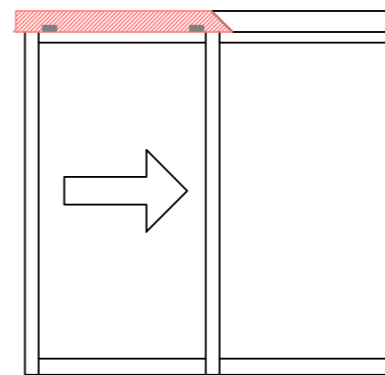
Frame Height (mm)		Design Wind Pressure (Pa)							
2100	S	2833	2429	2125	1889	1700	1545	1417	1308
	U	6697	5740	5022	4464	4018	3653	3348	3091
2200	S	2464	2112	1848	1643	1479	1344	1232	1137
	U	6102	5230	4576	4068	3661	3328	3051	2816
2300	S	2157	1848	1617	1438	1294	1176	1078	995
	U	5583	4785	4187	3722	3350	3045	2791	2577
2400	S	1898	1627	1424	1265	1139	1035	949	876
	U	5127	4395	3845	3418	3076	2797	2564	2366
2500	S	1679	1439	1259	1120	1008	916	840	775
	U	4725	4050	3544	3150	2835	2577	2363	2181
2600	S	1493	1280	1120	995	896	814	746	689
	U	4369	3745	3277	2912	2621	2383	2184	2016
2700	S	1333	1143	1000	889	800	727	667	615
	U	4051	3472	3038	2701	2431	2210	2026	1870
2800	S	1195	1025	896	797	717	652		
	U	3767	3229	2825	2511	2260	2055		
2900	S	1076	922	807	717	646			
	U	3512	3010	2634	2341	2107			
3000	S	972	833	729	648				
	U	3281	2813	2461	2188				
Panel Width Centres (mm)		1200	1400	1600	1800	2000	2200	2400	2600

Roller Location & Track Machining



Alternate Track drop-out detail

A drop out area on the track can be used instead of machining a slot in the track. Ensure the join is mitred - this allows the portion to drop out easily & minimizes the effect of the join on rollers. In positioning similar to shown, only 1 roller will pass over the join. Ensure the door can be opened fully to reveal the last fixing adjacent to the interlock for easy removal.



U-Max™ THERMAL BREAK COMMERCIAL DOORS

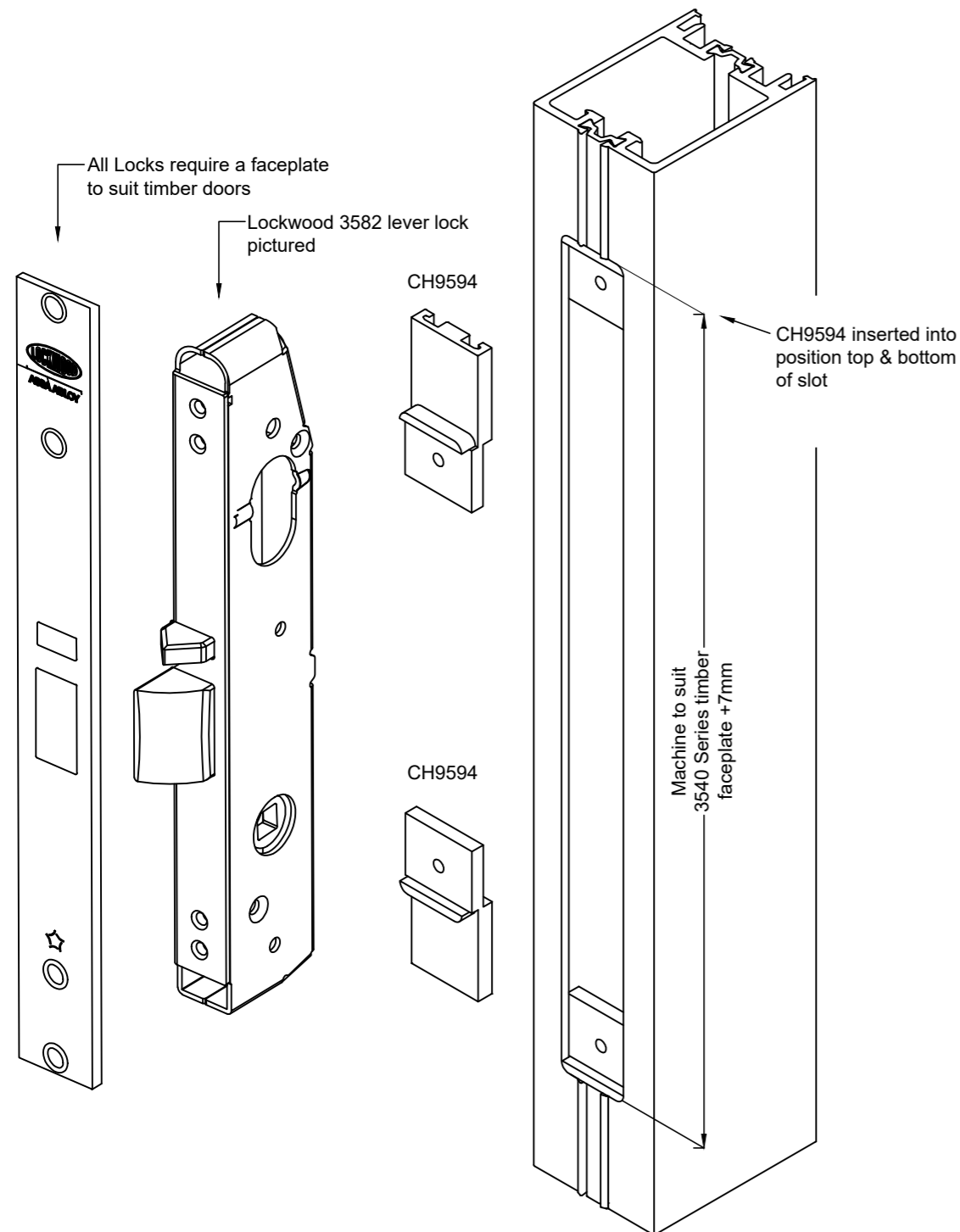
U-Max Doors: UCOMMDOOR - 15 Lock Fitting Details

The U-Max door has been designed to accept the Lockwood 3540 Series with a face plate suited to timber doors. As the door stile has protruding legs that captivate the thermal strip, it doesn't allow the fitting of a conventional lock body with faceplate. Please carefully review the details below.

Machine to suit Lockwood Selector, 3540 & 3582 Series narrow backset locks, with faceplates suited to timber doors.

Machine faceplate length +7mm to accommodate CH9594 faceplate bracket, which is slid into each end of the slot.

The bracket has a 3.2mm radius in the corners, to allow standard routing & provides a seat for the faceplate, with a hole which accepts #10g csk faceplate screw to be fixed.

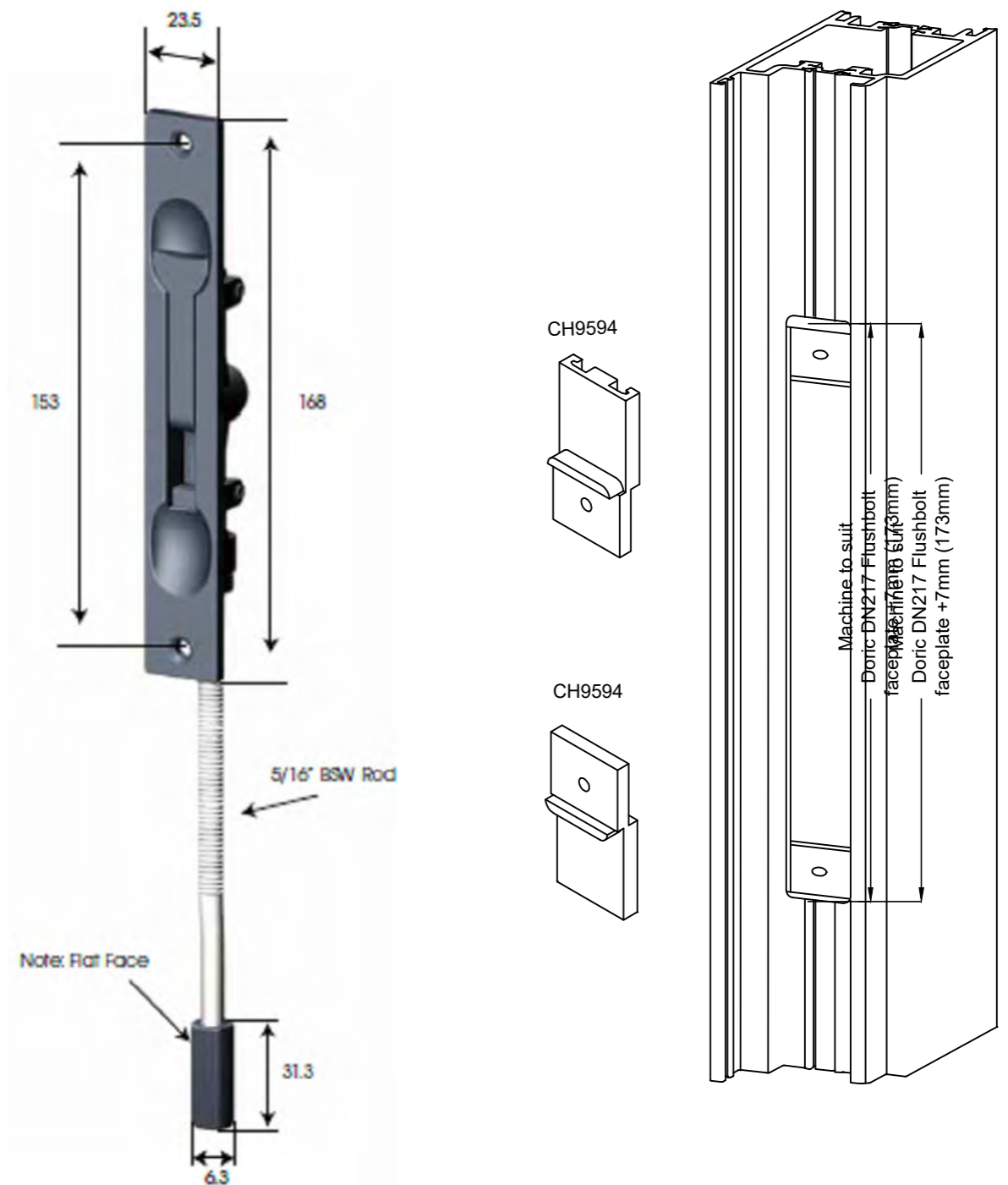


Flushbolt Fitting Details

Flushbolts are fitted in a similar way to commercial door locks, using a square ended face fitted flushbolt like the Doric DN217 pictured.

Machine faceplate length +7mm to accommodate CH9594 faceplate bracket, which is slid into each end of the slot.

The bracket has a 3.2mm radius in the corners, to allow standard routing & provides a seat for the faceplate, with a hole which accepts #10g csk faceplate screw to be fixed.

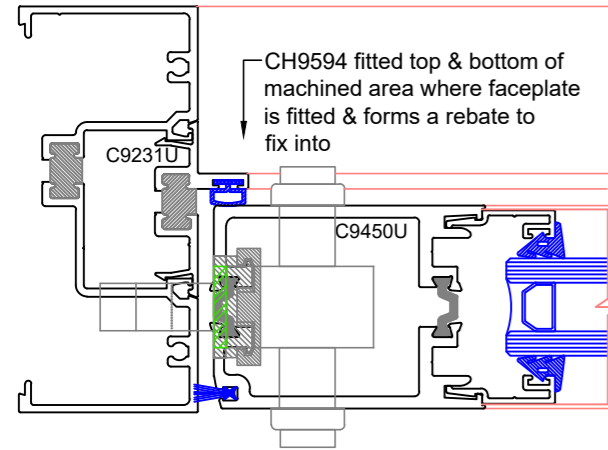


U-Max™ THERMAL BREAK COMMERCIAL DOORS

U-Max Doors: UCOMMDOOR - 16

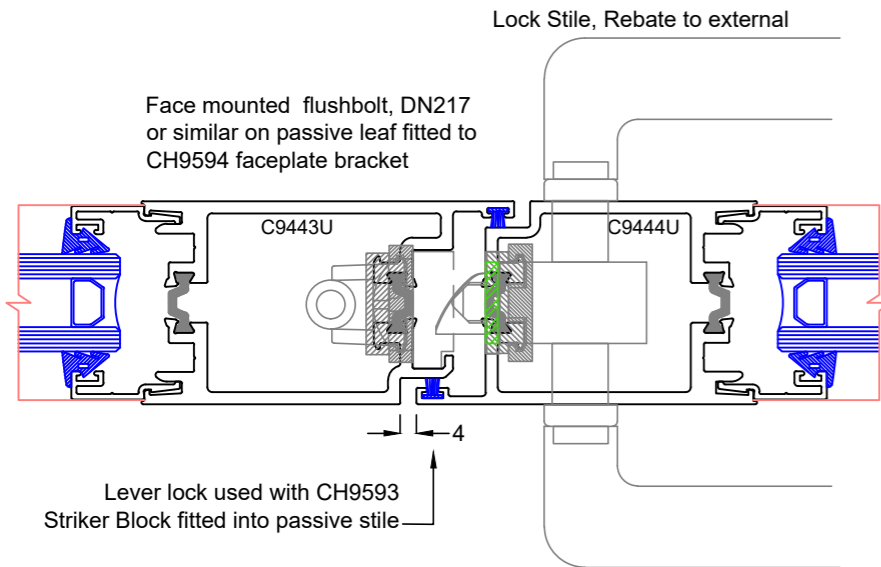
CH9594 Faceplate Bracket

Used when fitting locks or flushbolts into the face of a U-Max door stile

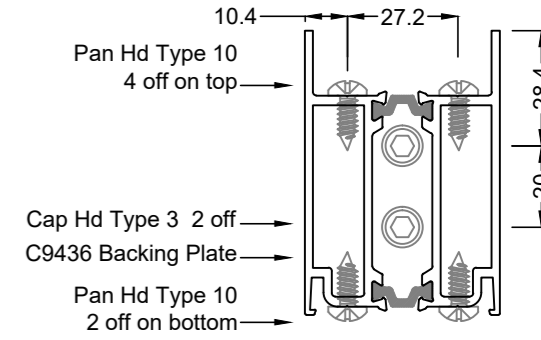
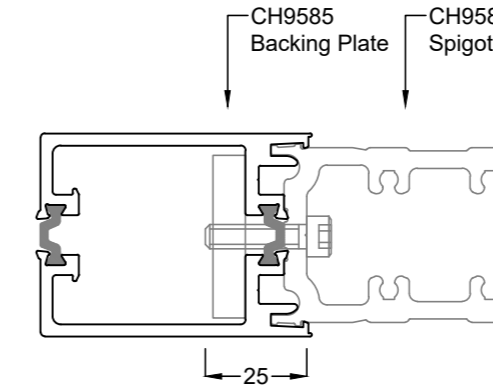


Pairs of Hinged Doors only

CH9594 is used in conjunction with Doric DR217 flushbolt



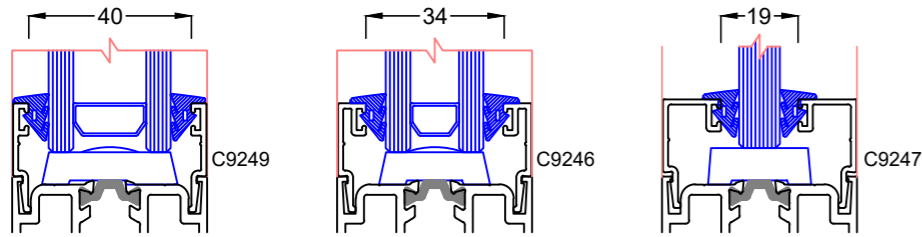
CH9598 Door Corner Joinery Package



CH9598 Door Corner Joinery Bill of Materials

Commercial Door Leaf	Part	Description	Qty
	CH9584	Spigot	4
	CH9585	Backing Plate	4
	Cap Hd Type 3	25 x M6 Cap Head spigot fastener	8

U-Max™ THERMAL BREAK COMMERCIAL DOORS
U-Max Doors: UCOMMDOOR - 17
Wedge glazing charts for U-MAX Commercial Doors



	Glass thickness	Bead	Rebate wedge	Gap	Glazing wedge	Gap
Commercial Doors	6mm	C9247	CH9503	7mm	CH9503	7mm
	8mm	C9247	CH9502	5mm	CH9503	7mm
	10mm	C9247	CH9502	5mm	CH9502	5mm
	14mm	C9246 / C9247	CH9502	5mm	CH9503	7mm
	18mm	C9246 / C9247	CH9500	3mm	CH9500	3mm
	Glass thickness	C9246 Bead	Rebate wedge	Gap	Glazing wedge	Gap
	24mm	6/12/6	CH9502	5mm	CH9502	5mm
	25mm	6.38/12/6	CH9502	5mm	CH9502	5mm
	26mm	8/12/6	CH9501	4mm	CH9501	4mm
	27mm	8.38/12/6	CH9501	4mm	CH9501	4mm
28mm	8/12/8	CH9500	3mm	CH9500	3mm	
Glass thickness	C9249 Bead	Rebate wedge	Gap	Glazing wedge	Gap	
34mm	6/22/6	CH9500	3mm	CH9500	3mm	

