Altitude
Sliding Window

Technical Manual

February 2025 | ISSUE F

EVERYTHING ALUMINIUM & HARDWARE

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Altitude
Sliding Window

Contents

13. CARE & MAINTENANCE

13.1

1. Technical Manual Release Notes

This page is intended to record all changes to the **ALTITUDE SLIDING WINDOW** technical manual pages.

Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

ISSUE	DATE	Amendment Description	Refer to Tech Memo #
A	02/2021	Tech Manual Created and Updated	432
B	03/2021	Removed APT201 & APT202 from Extrusions section	448
C	05/2021	Updated Typical Details to show ALT006 with screening details	462
D	10/2023	Added Transom Sealing Detail on page 11.18, updated Sill Baffle to CE48 in Typical Details and added Transom Internal Slide Machining Details on page 10.12 and 10.13	568
E	11/2023	Added OT23-167 Test Summary on page 4.3 Update Transom Internal Slide Machining on page 10.10 - 10.12	573 574
F	02/2024	Added APT101 and APT102 to Extrusions page 5.2	582

ALUMINIUM
Aluminium frames should be manufactred using Alspec's **ALTITUDE SLIDING WINDOW** framing system.

The maximum panel height shall be 1800mm
The maximum panel width shall be 1500mm
The maximum panel weight shall be 160kg

Refer to wind load table for maximum panel heights and widths.

GLAZING
Standard SG Panel: 4 - 10.5mm
Standard DG Panel: 12 - 18.5mm

Glazing wedges shall be Alspec's wedges and channels for **ALTITUDE SLIDING WINDOW** framing system to suit standard and captive glazing options, refer to glazing pages in ALSPEC Technical Manual. For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

HARDWARE
All hardware as per Alspec Technical Manual

FINISHES
- All powder coated material shall be produced to AS3715.
- All anodised material shall be produced to AS1231

TESTING
Product shall have a test report to show compliance to AS2047.

All products are available from ALSPEC (A.B.N. 63 001 252 259) as detailed in the "ALSPEC" catalogue or on the Internet at www.alspec.com.au. All such framing is to be constructed, assembled and fixed to meet the requirement of AS2047 (windows in buildings), AS1170 (loading code). All glass, glazing rubbers, seals and gaskets shall be applied in accordance with the requirements of AS1288 (glass in buildings - selection and installation) or AS4666 (Insulated Glass Units).

Fabricators of the ALTITUDE SLIDING WINDOW framing system should seek certification by a consultant structural engineer as to the framing being acceptable for the design wind pressure and deflection characteristics required of the site.

Loading Table Guide

The following pages contain wind pressure tables that may be used as a guide to the suitability of Alspec Aluminium Systems framing for various wind loads and frame sizes.

In most situations the Design Wind Pressure for a particular building should be available from the building designer or engineer.

Framing must be checked for suitability.

For a window / door frame, which is 2400mm high and 1000mm wide, refer to the table below;
Step 1: Locate the height
Step 2: Locate the width
Step 3: Determine the Maximum wind pressure based on the height and width.

SECTION PART NO.	Panel Height	Maximum Design Pressure (Pa)					
	2850	S	1040	840	720	630	570
		U	2410	1960	1660	1460	1310
	2700	S	1230	1000	850	750	680
		U	2700	2190	1870	1640	1480
	2550	S	1460	1200	1020	910	830
		U	3040	2470	2210	1860	1690
STEP 1 →	2400	S	1770	1450	1250	[illegible]	1010
		U	3440	2810	2410	[illegible]	1940
	2250	S	2160	1780	1530	1370	1270
		U	3940	3230	2780	2470	2270
	2100	S	2670	2210	1920	1730	1610
		U	4550	3750	3240	2900	2680
Ixx = xxx x xxx mm4	Panel Width		800	1000	1200	1400	1600

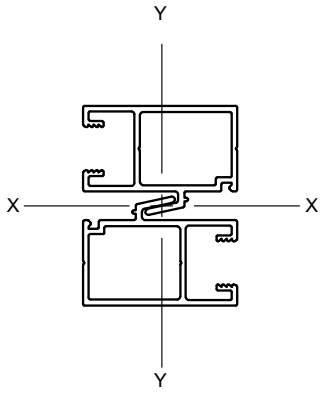
STEP 3 ←

STEP 2 ↑

3. Loading Tables

Interlock - APT10 / APT10

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

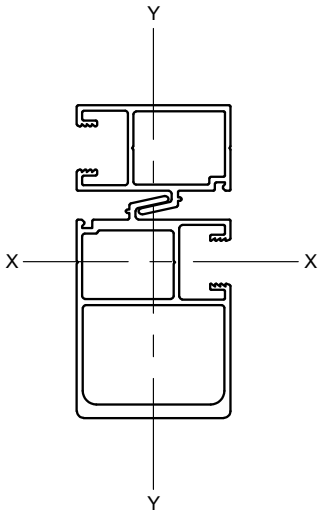
APT10 INTERLOCK / APT10 INTERLOCK	Panel Height		Maximum Design Pressure (Pa)							
	1600	S	460	420						
		U	2080	1900						
	1500	S	570	520	490	460	440	430	430	420
		U	2400	2190	2040	1920	1840	1780	1750	1740
	1400	S	720	660	620	590	570	550	504	454
		U	2800	2570	2400	2280	2200	2150	1935	1742
	1300	S	920	850	810	780	760	750	675	608
		U	3310	3060	2880	2760	2690	2670	2403	2163
	1200	S	1200	1130	1080	1050	1040	936	840	756
		U	3990	3710	3530	3430	3400	3060	2754	2479
Ixx = 64.9 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Interlock - APT10 / APT11

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

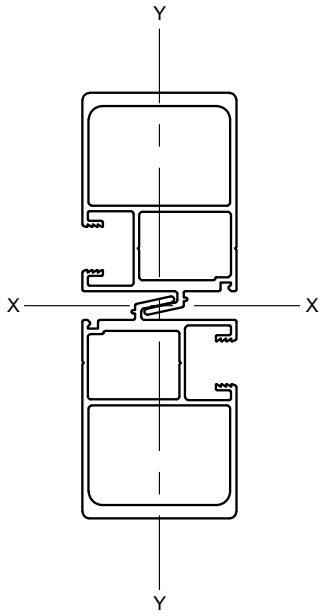
APT10 INTERLOCK / APT11 INTERLOCK	Panel Height	Maximum Design Pressure (Pa)								
	1800	S	1640	1490	1370	1280	1210	1160	1120	1080
		U	3350	3030	2790	2600	2450	2330	2240	2170
	1700	S	1960	1790	1660	1550	1470	1410	1370	1340
		U	3790	3440	3170	2960	2800	2680	2590	2520
	1600	S	2380	2180	2030	1910	1820	1760	1710	1690
		U	4320	3930	3640	3420	3250	3120	3040	2980
	1500	S	2940	2700	2520	2390	2290	2230	2190	2180
		U	4980	4550	4230	3990	3820	3700	3630	3600
	1400	S	3000	3000	3000	3000	2940	2890	2870	2790
		U	5800	5330	4980	4730	4560	4460	4430	4370
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	5980	5730	5580	5540	5490	5350
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 331 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Medium Duty Interlocks - APT11 / APT11

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

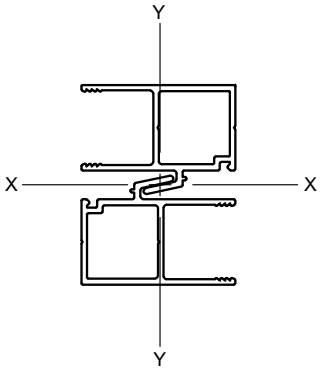
APT11 INTERLOCK / APT11 INTERLOCK	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	2960	2690	2480	2320	2190	2090	2020	1960
		U	6000	5470	5030	4690	4420	4200	4040	3920
	1700	S	3000	3000	2990	2810	2660	2560	2480	2420
		U	6000	6000	5720	5350	5060	4840	4670	4560
	1600	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5860	5640	5480	5390
	1500	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1400	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 597.2 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Standard Interlocks - APT20 / APT20

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

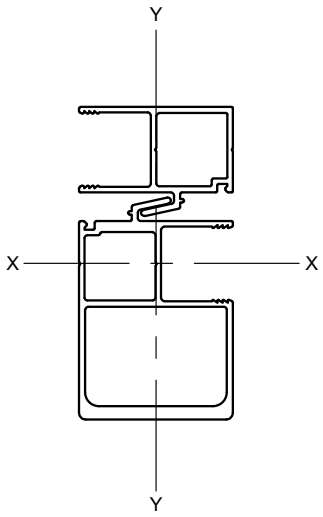
APT20 INTERLOCK / APT20 INTERLOCK	Panel Height		Maximum Design Pressure (Pa)							
	1600	S	440							
		U	1630							
	1500	S	540	490	460	440	420	410		
		U	1880	1720	1600	1510	1440	1400		
	1400	S	680	620	590	560	540	530	530	530
		U	2200	2020	1890	1790	1730	1690	1610	1580
	1300	S	870	800	760	730	720	710	650	630
		U	2600	2400	2260	2170	2110	2090	1980	1910
	1200	S	1130	1060	1010	990	980	970	930	840
		U	3130	2920	2770	2690	2660	2590	2490	2410
Ixx = 61.2 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Interlock - APT20 / APT21

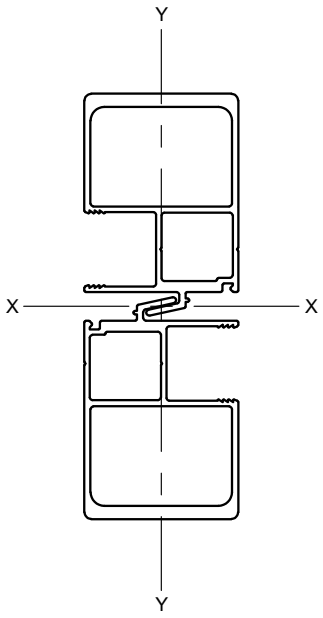
Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

APT20 INTERLOCK / APT21 INTERLOCK	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	1550	1400	1300	1210	1140	1090	1050	1020
		U	3060	2770	2550	2370	2230	2130	2040	1980
	1700	S	1860	1690	1560	1470	1390	1340	1290	1270
		U	3460	3140	2900	2710	2560	2450	2360	2310
	1600	S	2250	2060	1910	1800	1720	1660	1620	1600
		U	3950	3590	3330	3120	2970	2850	2770	2730
	1500	S	2780	2550	2380	2250	2160	2100	2070	2060
		U	4550	4160	3860	3650	3490	3380	3310	3290
	1400	S	3000	3000	3000	2870	2780	2730	2710	2630
		U	5300	4870	4550	4330	4170	4080	4050	3980
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	5800	5460	5230	5100	5060	5100	5250
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 312.8 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

Medium Duty Interlock - APT21 / APT21

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

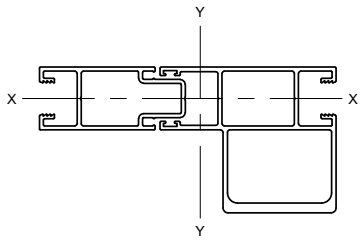
APT21 INTERLOCK / APT21 INTERLOCK	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	2790	2540	2340	2190	2070	1980	1910	1850
		U	5520	5000	4600	4280	4030	3840	3690	3580
	1700	S	3000	3000	2830	2650	2520	2410	2340	2290
		U	6000	5670	5230	4890	4620	4420	4270	4160
	1600	S	3000	3000	3000	3000	3000	3000	2920	2880
		U	6000	6000	6000	5640	5360	5150	5010	4920
	1500	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	5980	5940
	1400	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 564.4 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Bi-Part Stiles - APT13 / APT31

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

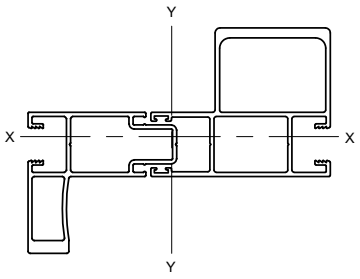
APT13 STILE / APT31 STILE	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	1510	1380	1270	1190	1120	1070	1030	1000
		U	3750	3400	3130	2910	2740	2610	2510	2430
	1700	S	1820	1660	1530	1440	1360	1310	1270	1240
		U	4240	3850	3550	3320	3140	3000	2900	2830
	1600	S	2210	2020	1870	1770	1680	1630	1590	1560
		U	4840	4410	4080	3830	3640	3500	3400	3350
	1500	S	2720	2500	2330	2210	2120	2060	2030	2010
		U	5580	5100	4740	4470	4280	4150	4070	4040
	1400	S	3000	3000	2950	2820	2730	2670	2660	2570
		U	6000	5980	5590	5310	5120	5010	4970	4510
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 306.4 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Bi-Part Stiles - APT31 / APT58

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

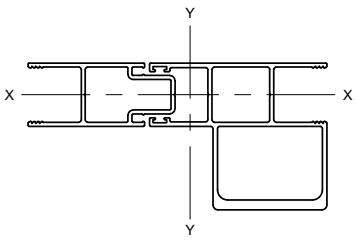
APT31 STILE / APT58 STILE	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	2130	1930	1780	1660	1570	1500	1450	1410
		U	5010	4540	4180	3890	3660	3490	3350	3250
	1700	S	2550	2320	2150	2020	1910	1840	1780	1740
		U	5670	5150	4750	4440	4200	4010	3880	3780
	1600	S	3000	2830	2630	2480	2360	2280	2230	2190
		U	6000	5890	5450	5120	4860	4680	4550	4470
	1500	S	3000	3000	3000	3000	2970	2890	2840	2830
		U	6000	6000	6000	5980	5720	5540	5430	5400
	1400	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 429.6 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

3. Loading Tables

Bi-Part Stiles - APT23 / APT32

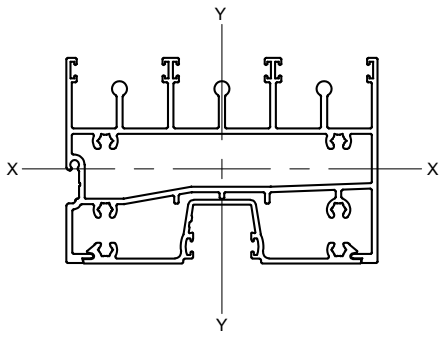
Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

APT23 STILE / APT32 STILE	Panel Height		Maximum Design Pressure (Pa)							
	1800	S	1460	1330	1220	1140	1080	1030	1000	970
		U	3530	3200	2940	2740	2580	2460	2360	2290
	1700	S	1750	1600	1480	1390	1320	1260	1220	1200
		U	3990	3630	3350	3130	2960	2830	2730	2660
	1600	S	2130	1950	1810	1700	1620	1570	1530	1510
		U	4560	4150	3840	3610	3430	3290	3200	3150
	1500	S	2620	2410	2250	2130	2040	1990	1950	1940
		U	5250	4800	4460	4210	4030	3900	3830	3800
	1400	S	3000	3000	2850	2720	2630	2580	2560	2680
		U	6000	5630	5260	5000	4820	4710	4680	4610
	1300	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	5890	5840	5900	6000
	1200	S	3000	3000	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000	6000	6000
Ixx = 306.4 x 10^3 mm^4	**Panel Width**		**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**

Tables are based on theoretical section properties

Transom - APT67 / APT801

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

APT67 / APT801 TRANSOM	

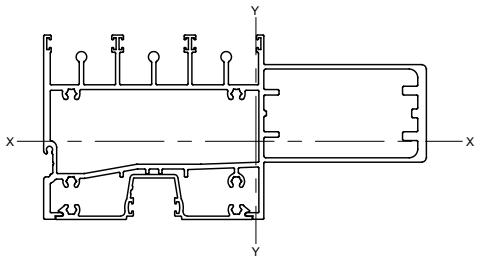
Ixx = 1421.7 x 10^3 mm^4

Window Height	Low Lite Height		Maximum Design Pressure (Pa)					
2400	600	S	3000	3000	3000	2190	1480	1050
		U	6000	6000	5740	4160	3180	2510
2200	500	S	3000	3000	3000	2350	1590	1130
		U	6000	6000	6000	4470	3420	2710
2000	400	S	3000	3000	3000	2540	1730	1230
		U	6000	6000	6000	4850	3730	2960
1800	300	S	3000	3000	3000	2790	1900	1360
		U	6000	6000	6000	5330	4100	3260
Max Kg			100	100	100	98	69	50
Panel Width			1500	1800	2100	2400	2700	3000

Tables are based on theoretical section properties

Heavy Duty Transom - APT73 / APT801

Max Stress = 110Mpa S = Serviceability limit state l/250 U = Ultimate limit state

APT73 / APT801 TRANSOM	

Ixx = 6249.2 x 10^3 mm^4

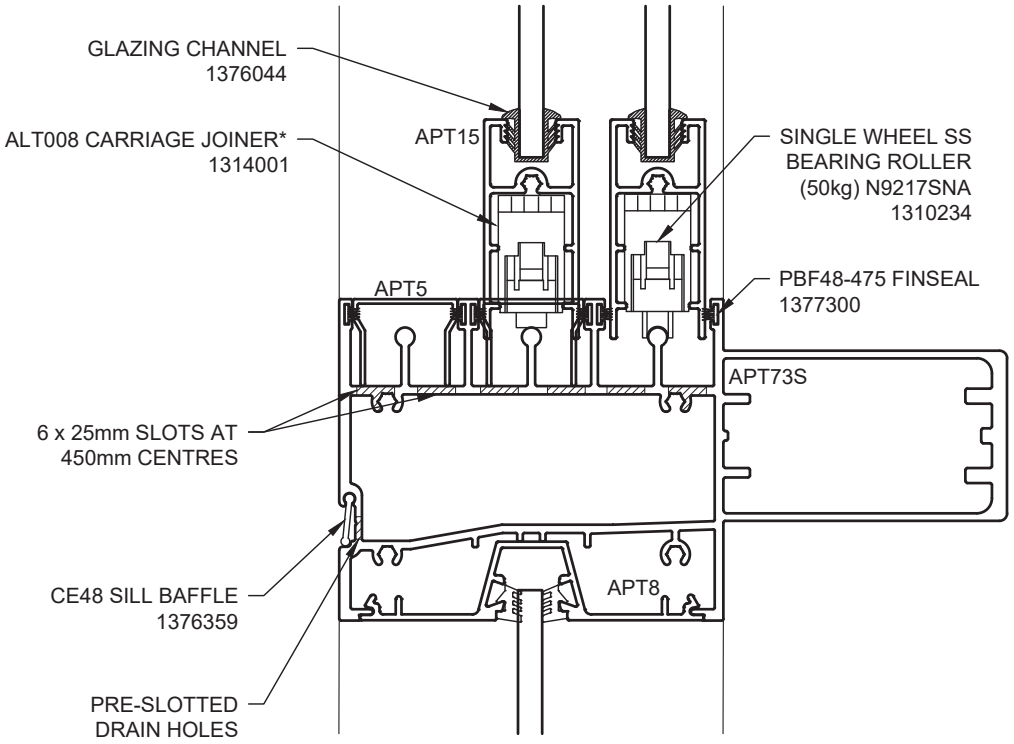
Window Height	Low Lite Height		Maximum Design Pressure (Pa)					
2400	600	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	5940
2200	500	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
2000	400	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
1800	300	S	3000	3000	3000	3000	3000	3000
		U	6000	6000	6000	6000	6000	6000
Max Kg			200	200	200	200	200	152
Panel Width			**1500**	**1800**	**2100**	**2400**	**2700**	**3000**

Tables are based on theoretical section properties

4. Test Summary

AS2047 - window config. - OXXO Internal Slide

TEST REPORT:	AS14-237
SYSTEM CONFIGURATION	OXXO INTERNAL SLIDE I AS2C Sill, APT5 Threshold, APT10/ APT11 Interlocks, AS106s Sub Sill, APT13/APT31 Meeting Stile
TEST SAMPLE SIZE	2.7m high x 3.55m wide
SERVICEABILITY LOAD	+/- 1.00 kPa
ULTIMATE LOAD	+/- 3.71 kPa
WATER PENETRATION	360 Pa
AIR INFILTRATION @75Pa	+ 0.78 L/m/s² - 0.78 L/m/s²
OPERATING FORCE TEST **INITIATING MOVEMENT** **SUSTAINING MOVEMENT**	 24.8 N / 26.4 N 24 N / 26.2 N

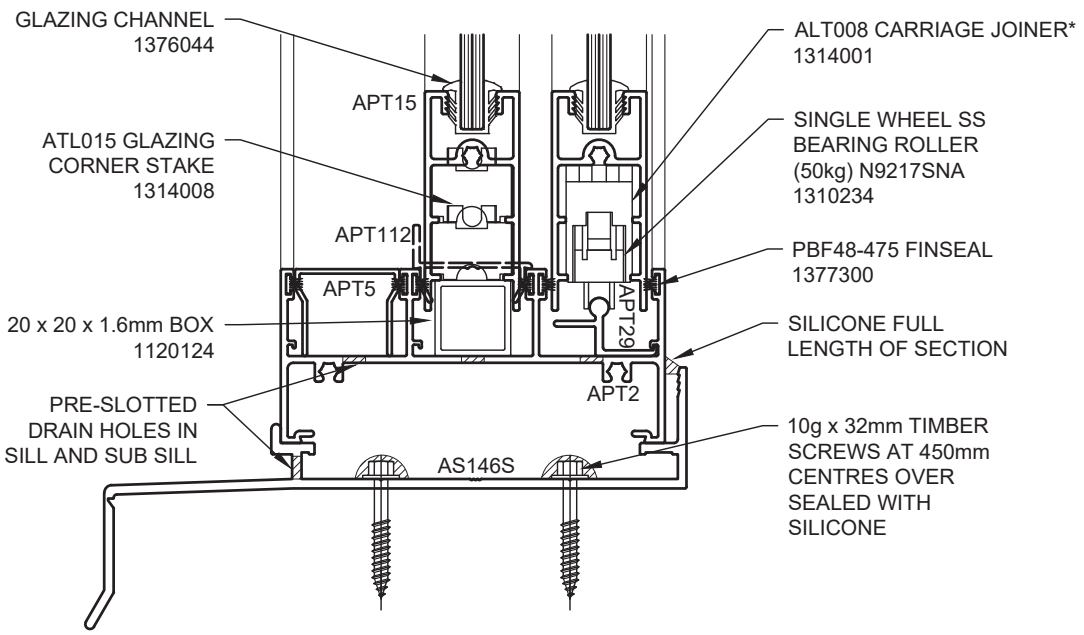


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

4. Test Summary

AS2047 - window config. - XO Internal Slide

TEST REPORT:	OT20-026
SYSTEM CONFIGURATION	XO INTERNAL SLIDE I APT29 Sill, APT5 / APT112 Threshold, APT10 / APT11 Interlocks, AS146s Sub Sill
TEST SAMPLE SIZE	1.84m high x 2.41m wide
SERVICEABILITY LOAD	+/- 0.83 kPa
ULTIMATE LOAD	+/- 2.77 kPa
WATER PENETRATION	260 Pa
AIR INFILTRATION @75Pa	+ 0.07 L/m/s² - 0.29 L/m/s²
OPERATING FORCE TEST **INITIATING MOVEMENT** **SUSTAINING MOVEMENT**	 32.2 N / 39.2 N 30.4 N / 27.5 N

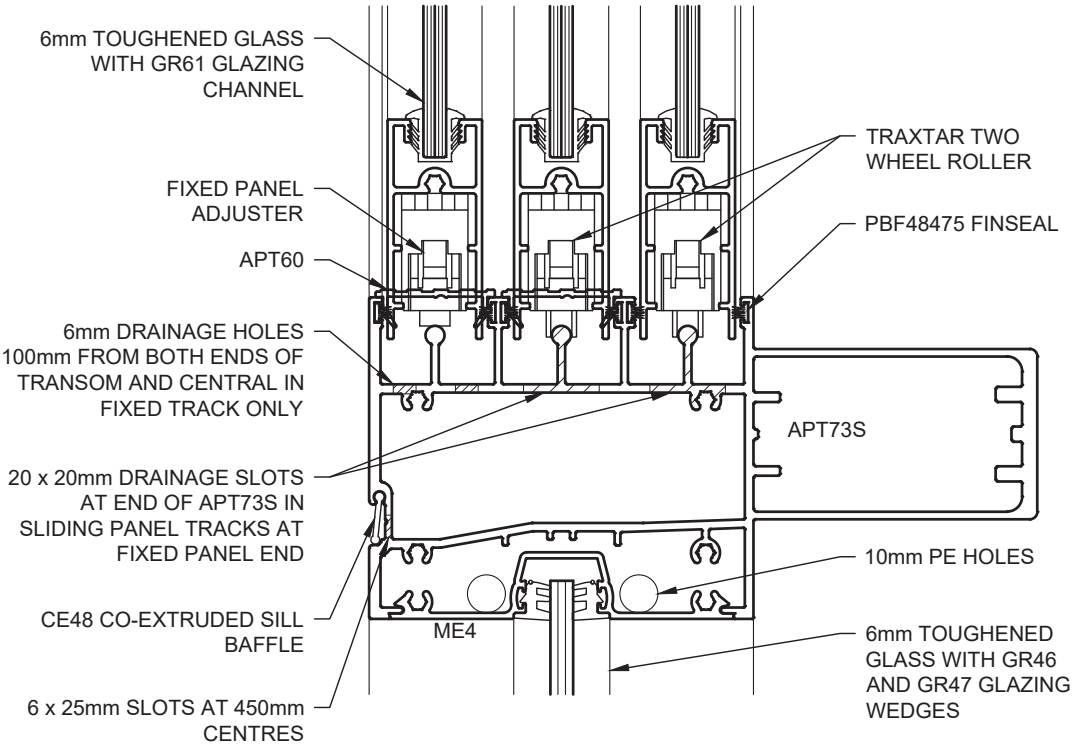


DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

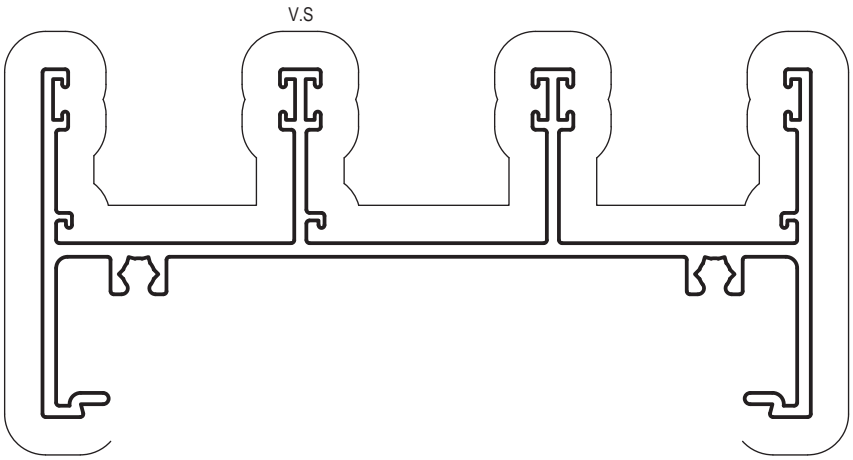
4. Test Summary

AS2047 - window config. - XXO/OOO Internal Slide

TEST REPORT:	OT23-167
SYSTEM CONFIGURATION	XXO/OOO INTERNAL SLIDE I APT73S Transom, APT10 / APT12 Interlocks
TEST SAMPLE SIZE	2.65m high x 4.0m wide
SERVICEABILITY LOAD	+/- 1.75 kPa
ULTIMATE LOAD	+/- 3.41 kPa
WATER PENETRATION	525 Pa
AIR INFILTRATION @75Pa	+ 0.15 L/m/s² - 0.19 L/m/s²
OPERATING FORCE TEST **INITIATING MOVEMENT** **SUSTAINING MOVEMENT**	 98.9 N / 63.3 N 51.2 N / 48.5 N



DISCLAIMER:
Please note that the test results shown above reflect specific configurations of a system and are representative only. If a specific high wind load or a different configuration (i.e. changes to frames, transoms, mullions) is required on a project please discuss with Alspec prior to commencement.

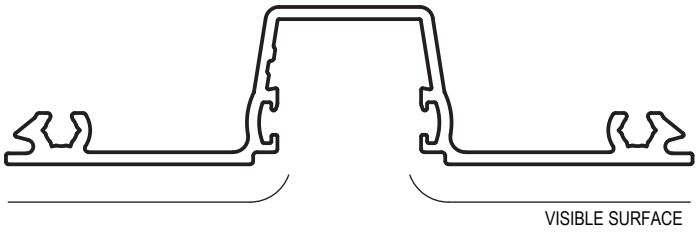


APT2
101mm HEAD / JAMB

APT2s
SLOTTED SILL 101.6mm

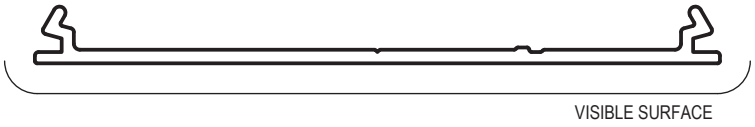
Mass. 1.410 Kg/m
Anod Per. 626
Paint Per. 433

Ixx = 721.98 x 10^3 mm^4
Iyy = 65.48 x 10^3 mm^4



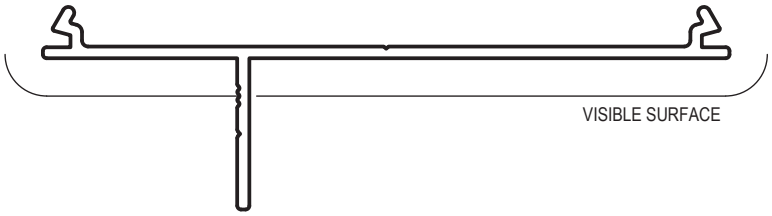
APT801
GLAZE ADAPTOR (ME POCKET)

Mass. 0.713 Kg/m
Anod Per. 315
Paint Per. 100



AS5
FLUSH ADAPTOR

Mass. 0.500 Kg/m
Anod Per. 213
Paint Per. 100

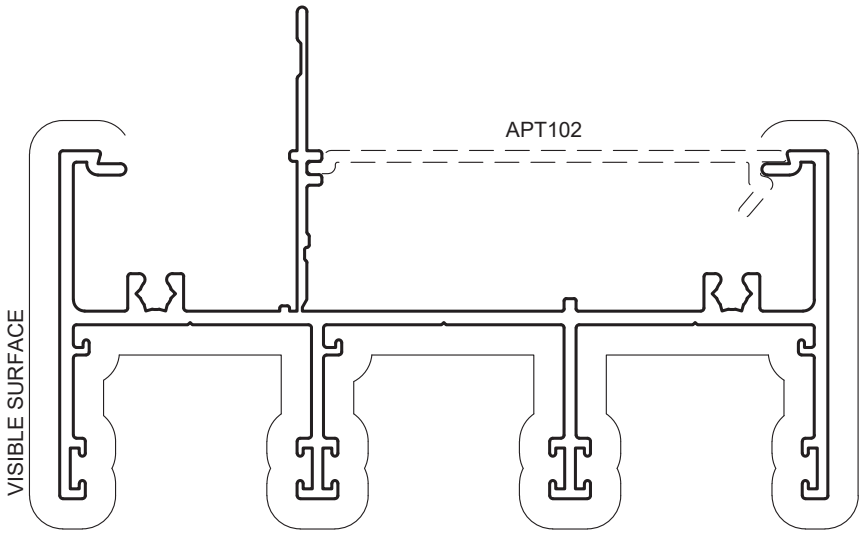


AS221
20mm REVEAL ADAPTOR

Mass. 0.522 Kg/m
Anod Per. 250
Paint Per. 100

APT102
101.6mm REVEAL INFILL HEAD / JAMB

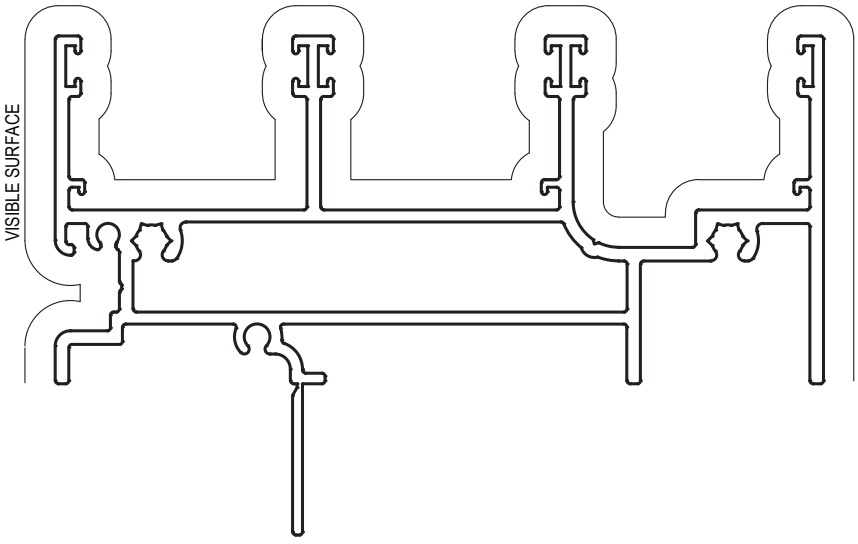
Mass. 0.309 Kg/m
Anod Per. 148
NO VISIBLE SURFACE



APT101
101.6mm REVEAL HEAD / JAMB

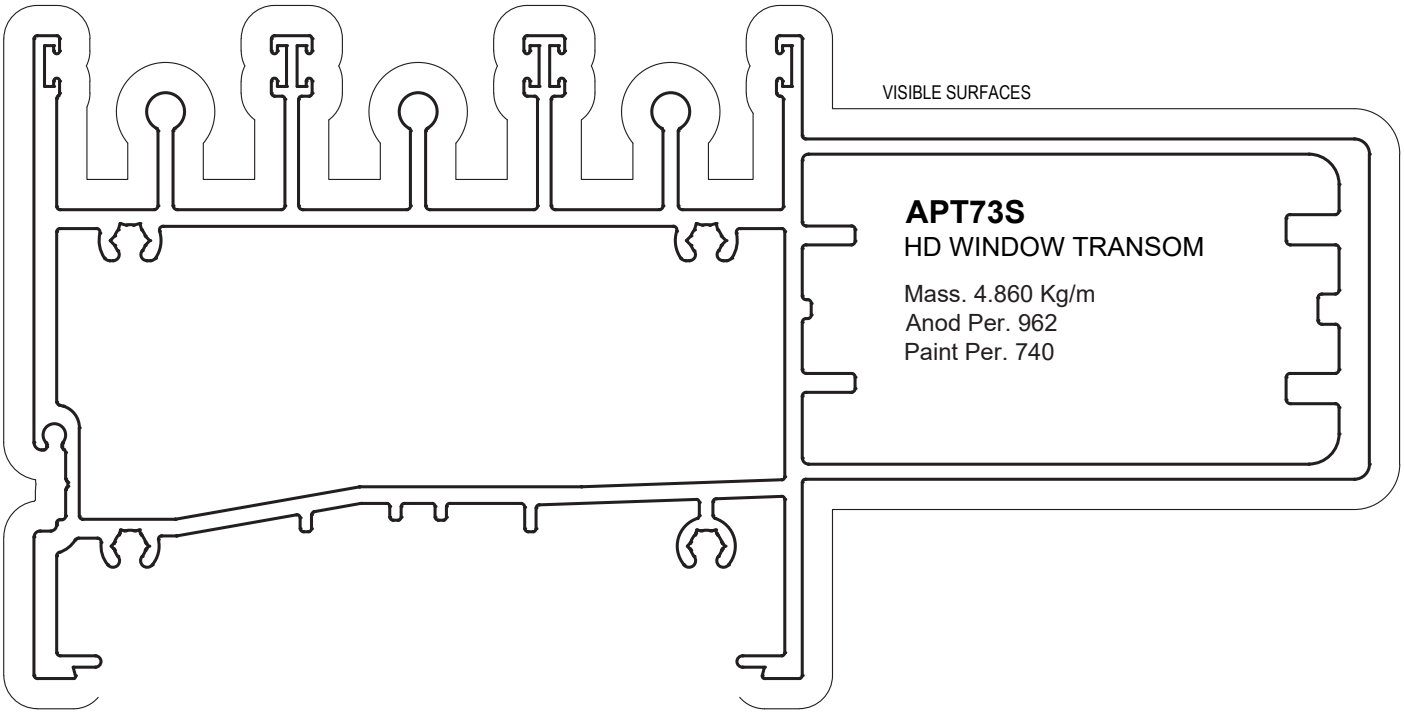
Mass. 1.571 Kg/m
Anod Per. 721
Paint Per. 347

Ixx = 740.36 x 10^3 mm^4
Iyy = 97.62 x 10^3 mm^4



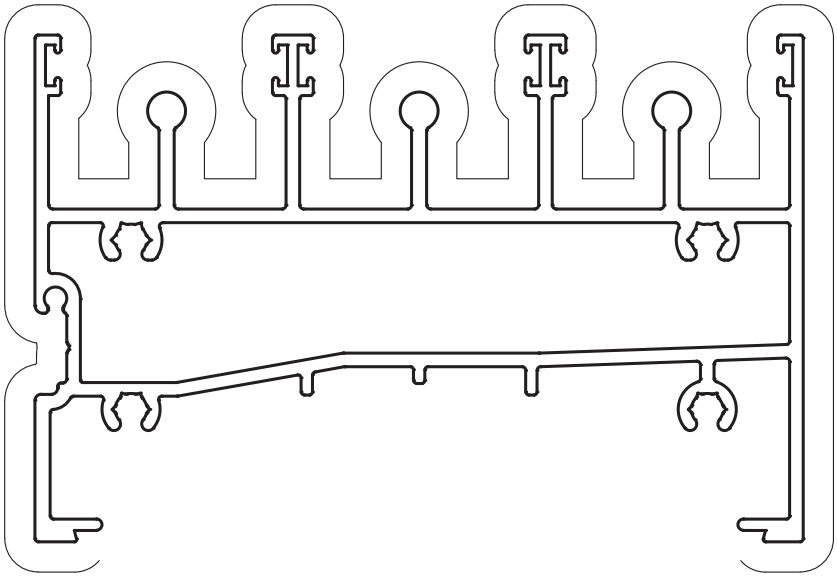
APT56S
HOLLOW SILL

Mass. 1.899 Kg/m
Anod Per. 688
Paint Per. 450



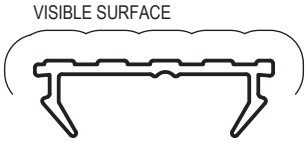
APT73S
HD WINDOW TRANSOM

Mass. 4.860 Kg/m
Anod Per. 962
Paint Per. 740



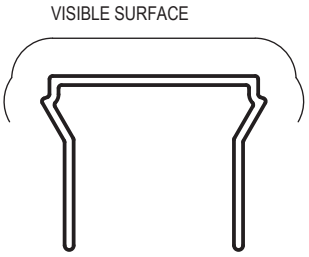
APT67S
WINDOW TRANSOM

Mass. 2.635 Kg/m
Anod Per. 785
Paint Per. 560



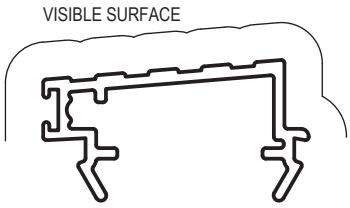
APT60
FLAT THRESHOLD

Mass. 0.200 Kg/m
Anod Per. 105
Paint Per. 100



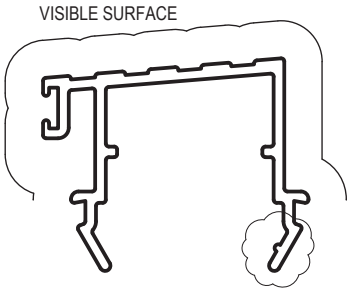
APT5
TRACK INFILL

Mass. 0.252 Kg/m
Anod Per. 148
Paint Per. 100



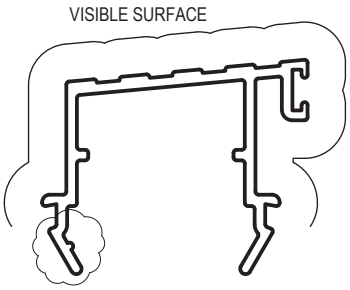
APT43
STD THRESHOLD

Mass. 0.332 Kg/m
Anod Per. 168
Paint Per. 100



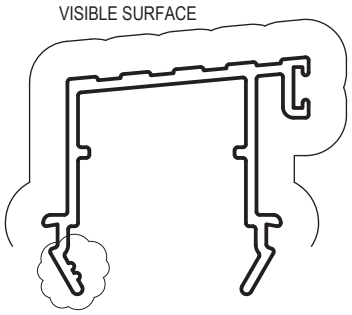
APT6
MID THRESHOLD

Mass. 0.412 Kg/m
Anod Per. 209
Paint Per. 100



APT33
INTERNAL MID THRESHOLD

Mass. 0.406 Kg/m
Anod Per. 206
Paint Per. 100

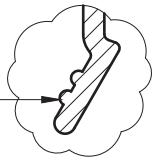


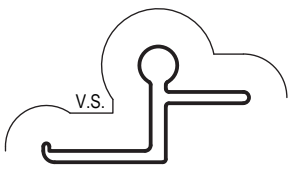
APT34
INTERNAL HIGH THRESHOLD

Mass. 0.430 Kg/m
Anod Per. 219
Paint Per. 100

NOTE: REFER CLOUDED AREA ON THRESHOLDS

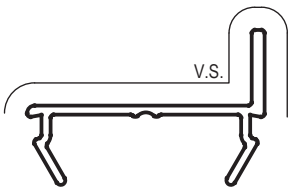
1 BUMP REPRESENTS MID THRESHOLDS
2 BUMPS REPRESENT HIGH THRESHOLDS
3 BUMPS REPRESENT EXTRA HIGH THRESHOLDS



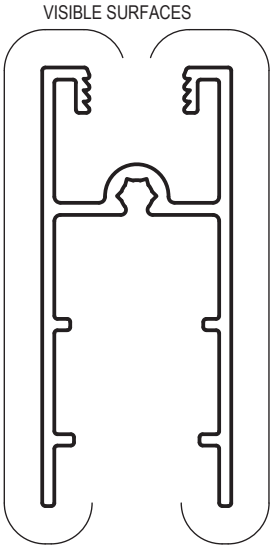


APT29
REMOVABLE TRACK
6106 T6

Mass. 0.212 Kg/m
Anod Per. 100
Paint Per. 100

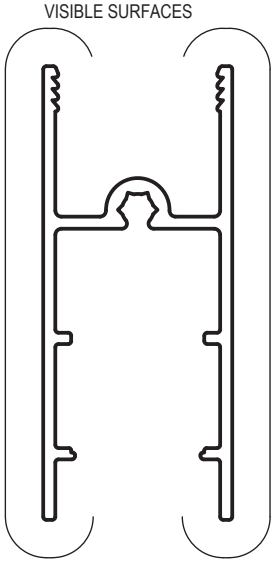


APT112
SCREEN INFILL
Mass. 0.216 Kg/m
Anod. Per. 125
Paint Per. 100



APT15
SG RAIL

Mass. 0.759 Kg/m
Anod Per. 353
Paint Per. 131

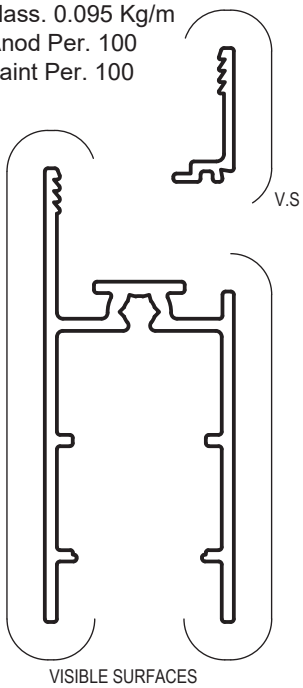


APT25
DG RAIL

Mass. 0.707 Kg/m
Anod Per. 323
Paint Per. 127

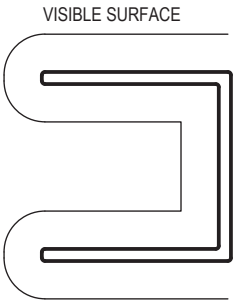
APT17
THICK GLASS
RAIL BEAD

Mass. 0.095 Kg/m
Anod Per. 100
Paint Per. 100



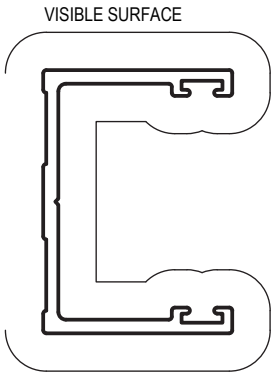
APT16
BEADED RAIL

Mass. 0.658 Kg/m
Anod Per. 297
Paint Per. 235



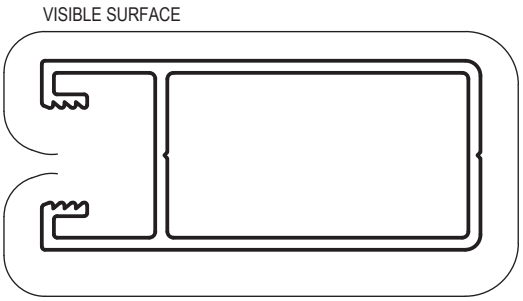
HD6
CHANNEL 25 x 25 x1.6mm

Mass. 0.311 Kg/m
Anod Per. 146
Paint Per. 122



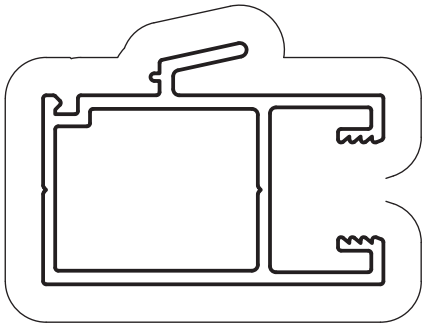
APT42
PLANT ON
JAMB ADAPTOR

Mass. 0.412 Kg/m
Anod Per. 187
Paint Per. 152



APT9
SG LOCK STILE

Mass. 0.759 Kg/m
Anod Per. 235
Paint Per. 151



APT10
INTERLOCK STILE

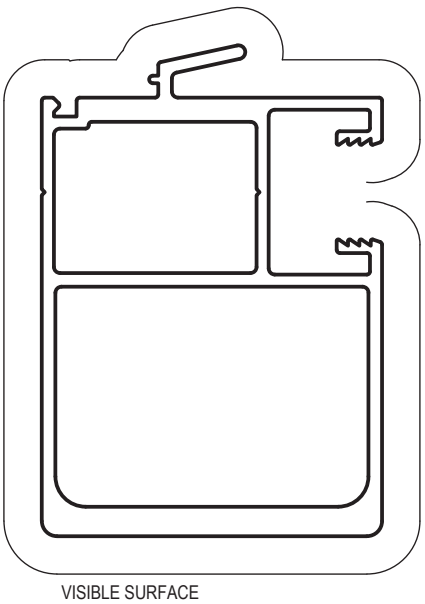
Mass. 0.769 Kg/m
Anod Per. 244
Paint Per. 162

Ixx = 32.57 x 10^3 mm^4
Iyy = 56.5 x 10^3 mm^4

APT11
SG MED
INTERLOCK STILE

Mass. 1.626 Kg/m
Anod Per. 309
Paint Per. 227

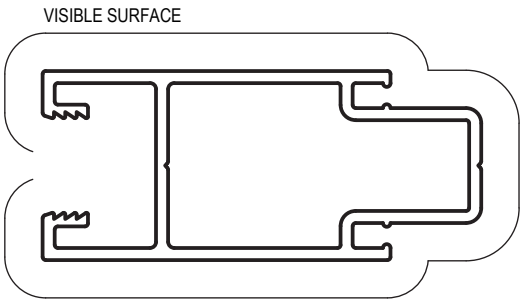
Ixx = 298.59 x 10^3 mm^4
Iyy = 138.98 x 10^3 mm^4

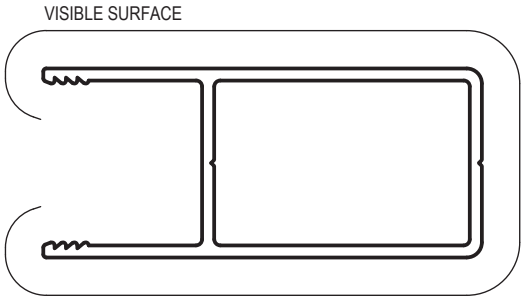


APT13
SG OXXO STILE

Mass. 0.805 Kg/m
Anod Per. 256
Paint Per. 173

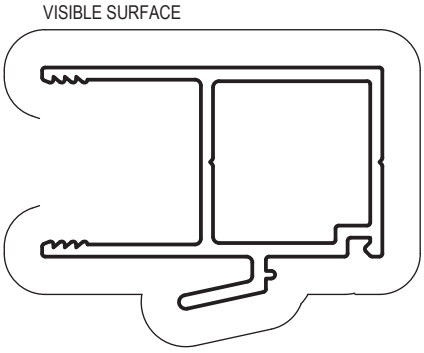
Ixx = 27.30 x 10^3 mm^4
Iyy = 96.76 x 10^3 mm^4





APT19
DG LOCK STILE

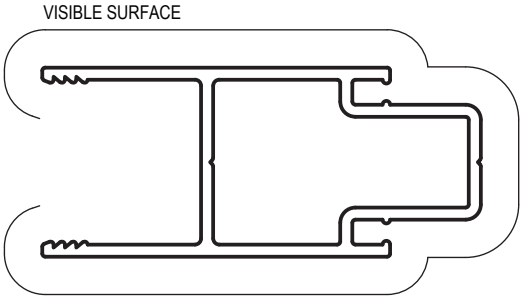
Mass. 0.693 Kg/m
Anod Per. 212
Paint Per. 143



APT20
DG INTERLOCK STILE

Mass. 0.692 Kg/m
Anod Per. 222
Paint Per. 151

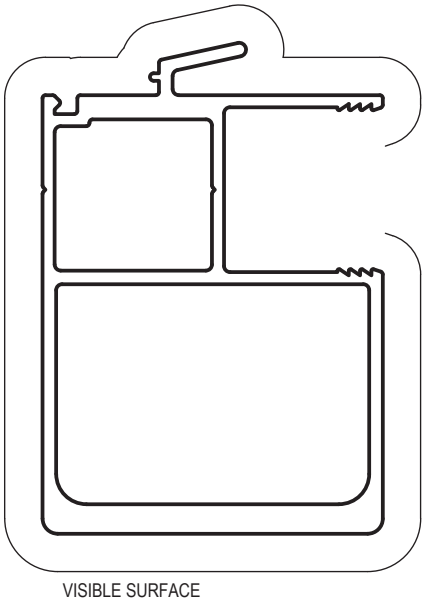
Ixx = 30.59 x 10^3 mm^4
Iyy = 40.91 x 10^3 mm^4



APT23
DG OXXO STILE

Mass. 0.736 Kg/m
Anod Per. 233
Paint Per. 166

Ixx = 25.72 x 10^3 mm^4
Iyy = 73.05 x 10^3 mm^4

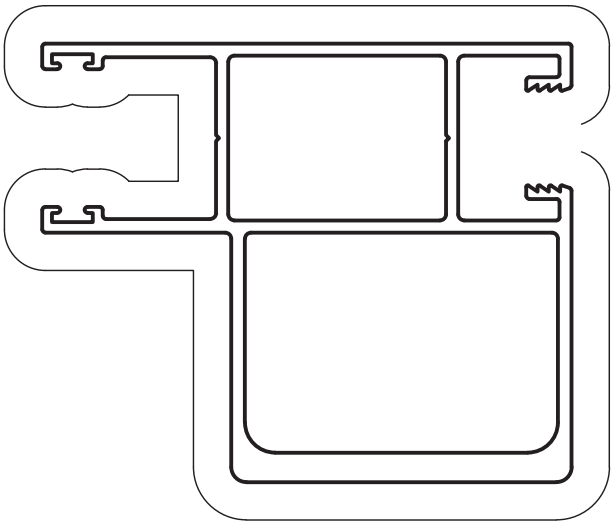


APT21
DG MED INTERLOCK STILE

Mass. 1.527 Kg/m
Anod Per. 287
Paint Per. 218

Ixx = 282.22 x 10^3 mm^4
Iyy = 124.45 x 10^3 mm^4

VISIBLE SURFACE

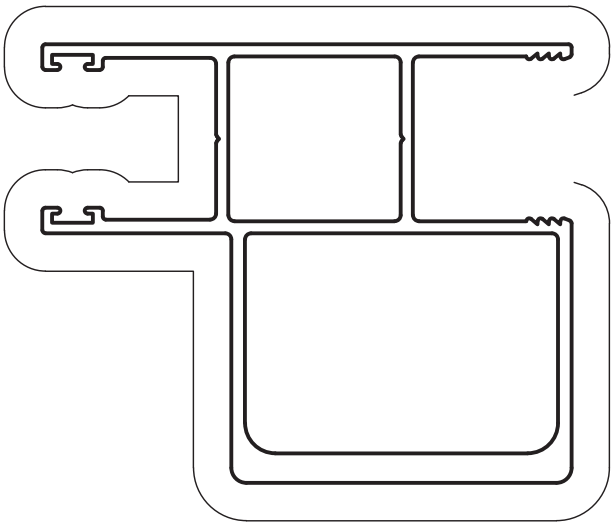


APT31
SG OXXO MEDIUM
STILE

Mass. 1.692 Kg/m
Anod Per. 389
Paint Per. 306

Ixx = 279.37 x 10^3 mm^4
Iyy = 246.36 x 10^3 mm^4

VISIBLE SURFACE

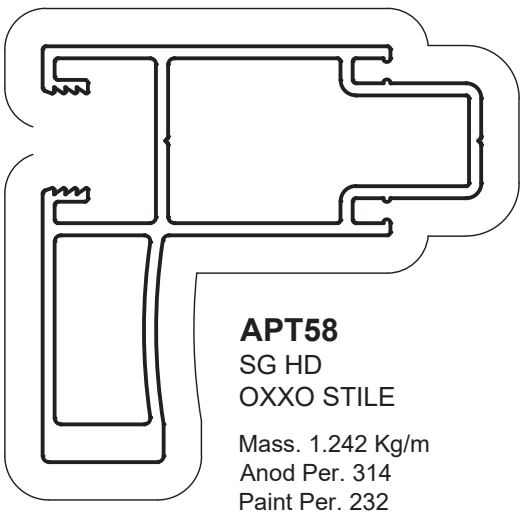


APT32
DG OXXO
MEDIUM STILE

Mass. 1.622 Kg/m
Anod Per. 367
Paint Per. 319

Ixx = 269.81 x 10^3 mm^4
Iyy = 223.66 x 10^3 mm^4

VISIBLE SURFACE

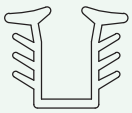
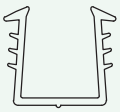
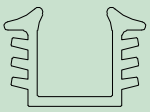
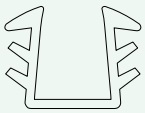
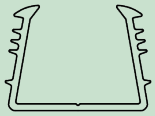
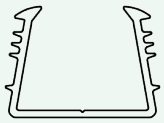


APT58
SG HD
OXXO STILE

Mass. 1.242 Kg/m
Anod Per. 314
Paint Per. 232

Ixx = 150.55 x 10^3 mm^4
Iyy = 144.92 x 10^3 mm^4

Glazing Channels

IMAGE	TO SUIT GLASS	MATERIAL	PART #	DESCRIPTION
	4mm	PVC	1376028	GR59 GLAZING CHANNEL (4mm GLASS) x 100m ROLL
	5mm	PVC	1376033	GR60 GLAZING CHANNEL (5mm GLASS) x 100m ROLL
	6-6.38mm	PVC	1376044	GR61 GLAZING CHANNEL (6-6.38mm GLASS) x 100m ROLL
	8-8.38mm	PVC	1376029	GR62 GLAZING CHANNEL (8-8.38mm GLASS) x 100m ROLL
	10-10.38mm	PVC	1376035	GR63 GLAZING CHANNEL (10-10.38mm GLASS) x 100m ROLL
	12-12.5mm	PVC	1313088	GR64 GLAZING CHANNEL (12-12.5mm GLASS) x 40m ROLL
	13.52mm	PVC	1376153	GR75 DG GLAZING CHANNEL (13.52mm GLASS) x 40m ROLL
	17.5mm	PVC	1376144	GR71 DG GLAZING CHANNEL (17.5mm GLASS) x 50m ROLL
	18mm	PVC	1376088	GR52 DG GLAZING CHANNEL (18mm GLASS) x 75m ROLL
	18.5mm	PVC	1376141	GR69 DG GLAZING CHANNEL (18.5mm GLASS) x 50m ROLL

Frame Joint Gaskets

PART #	DESCRIPTION	TO SUIT
1385512	FJG45 FRAME JOINT GASKET PVC FOAM TAPE 45 x 1.6mm 45.7m	CUT TO SIZE- SUITS ALL HEADS AND SILLS

6. Hardware & Components

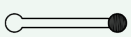
Glazing Wedges

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	4mm	PVC	1313056	GR44 GLAZING WEDGE (WHITE) (4mm GAP) PVC x 200m ROLL
		S/PRENE	1313064	GR44S GLAZING WEDGE (WHITE) (4mm GAP) S/PRENE x 200m ROLL
	4.5mm	PVC	1376149	GR1038 GLAZING WEDGE (4.5mm GAP) PVC x 150m ROLL
		S/PRENE	1376150	GR1038S GLAZING WEDGE (4.5mm GAP) S/PRENE x 150m ROLL
	5mm	PVC	1313057	GR45 GLAZING WEDGE (BLUE) (5mm GAP) PVC x 150m ROLL
		S/PRENE	1313065	GR45S GLAZING WEDGE (BLUE) (5mm GAP) S/PRENE x 150m ROLL

Backing Gaskets

IMAGE	TO SUIT GAP	MATERIAL	PART #	DESCRIPTION
	2mm	PVC	1313079	CE36 CO-EXT BACKING GASKET (2mm GAP) x 100m ROLL PVC
		S/PRENE	1313080	CE36S CO-EXT BACKING GASKET (2mm GAP) S/PRENE x 100m ROLL
	4mm	PVC	1313081	CE37 CO-EXT BACKING GASKET (4mm GAP) x 100m ROLL PVC
		S/PRENE	1313082	CE37S CO-EXT BACKING GASKET (4mm GAP) S/PRENE x 100m ROLL
	6mm	PVC	1313083	CE49 CO-EXT BACKING GASKET (6mm GAP) x 100m ROLL PVC
		S/PRENE	1313084	CE49S CO-EXT BACKING GASKET (6mm GAP) S/PRENE x 100m ROLL
	8.5mm	S/PRENE	1313078	CE52S CO-EXT BACKING GASKET (8.5mm GAP) x 100m ROLL

Seals

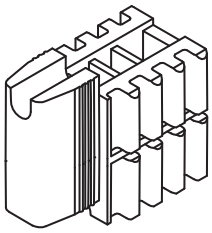
IMAGE	PART #	FINISH	DESCRIPTION
	1377300	BLACK (034)	PBF48-475-2B FINSEAL T-SLOT x 500m
	1376359	BLACK (034)	CE48 CO-EXT BAFFLE (13.5mm HEIGHT) x 500m ROLL
	1376310	BLACK (034)	APT OXXO BULB SEAL x 200m

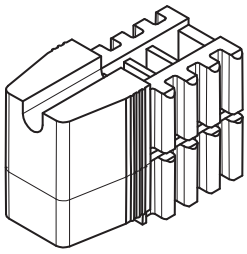
6. Hardware & Components

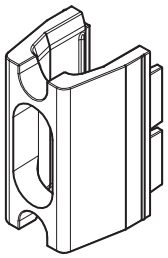
Fasteners

SCREWS			
PART #	**HEAD**	**DESCRIPTION**	**LOCATION**
1382644	SQUARE #1	10g x 1 (25mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	FRAME ASSEMBLY HEAD / SILL
1382054	PHILLIPS #2	10g x 1 (25mm) SS PHIL PAN S/TAP SCREW x 500	
1382647	SQUARE #2	10g x 2 (51mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	PANEL FIXINGS
1382058	PHILLIPS #2	10g x 2 (51mm) SS PHIL PAN S/TAP SCREW x 500	
1382093	PHILLIPS #2	6g x 3/4 (19mm) 304SS PHIL #2 CSK 4g HEAD x 100	FIXED PANEL TO FRAME
1382636	SQUARE #2	8g x 1/2 (13mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	RSDA1 FIXED BRACKET TO APT42 CHANNEL TO JAMB
1382042	PHILLIPS #2	8g x 1/2 (13mm) SS PHILLIPS PAN S/TAP SCREW x 1000	

Corner Stakes





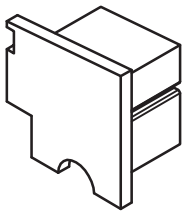


ALT015 GLAZING CORNER STAKE	
PART	1314008
FINISH	BLACK (034)
QTY	EACH

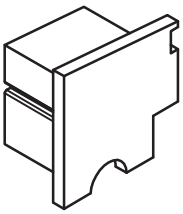
ALT019 DG CORNER STAKE	
PART	1314012
FINISH	BLACK (034)
QTY	EACH

ALT020 DG ROLLER ADAPTOR	
PART	1314013
FINISH	BLACK (034)
QTY	EACH

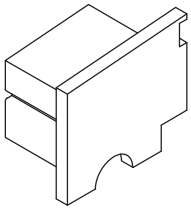
Accessories



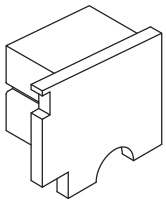
ALT001 EXT SLIDER T/HOLD LH BUMP STOP	
PART	1314101
FINISH	BLACK (034)
QTY	EACH



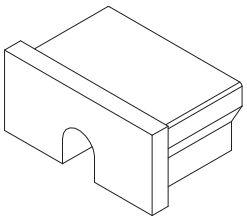
ALT002 EXT SLIDER T/HOLD RH BUMP STOP	
PART	1314102
FINISH	BLACK (034)
QTY	EACH



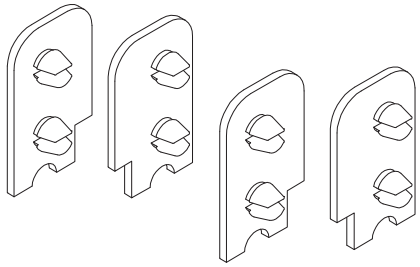
ALT003 INT SLIDER T/HOLD LH BUMP STOP	
PART	1314105
FINISH	BLACK (034)
QTY	EACH



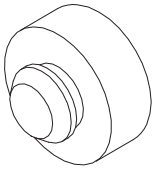
ALT004 INT SLIDER T/HOLD RH BUMP STOP	
PART	1314104
FINISH	BLACK (034)
QTY	EACH



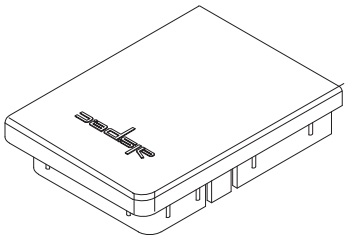
ALT005 FLAT THRESHOLD BUMP STOP	
PART	1314100
FINISH	BLACK (034)
QTY	BAG



ALT006 HOLE CAPS 2 x LH & 2 x RH	
PART	1314003
FINISH	BLACK (034)
QTY	SET



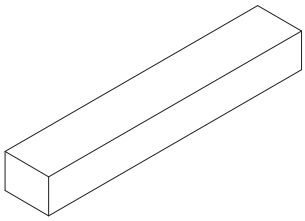
ALT009 8mm HIGH GROMMET	
PART	1314103
FINISH	BLACK (034)
QTY	EACH



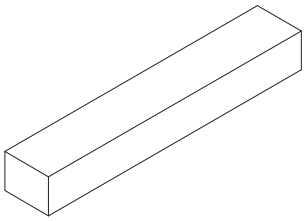
ALT010 INTERLOCK END CAP	
PART	1314004
FINISH	BLACK (034)
QTY	EACH

APT INTERLOCK SEAL	
PART	1314200
FINISH	BLACK (034)
QTY	LENGTH

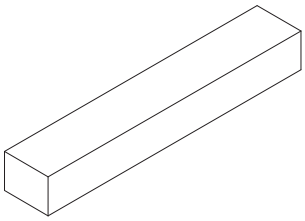
Accessories



SETTING BLOCK 10 x 6 x 75mm BAG OF 100	
PART	1376775
FINISH	BLACK (034)
QTY	BAG



SETTING BLOCK 8 x 10 x 75mm BAG OF 100	
PART	1376768
FINISH	BLACK (034)
QTY	BAG

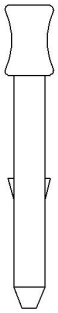


SETTING BLOCK 10 x 13 x 75mm BAG OF 50	
PART	1376762
FINISH	BLACK (034)
QTY	BAG

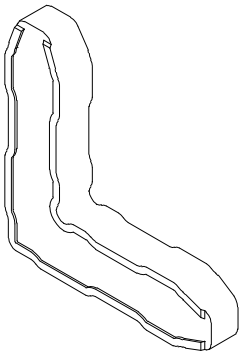
10mm DIAMETER HOLE PLUG	
PART	1378017
FINISH	BLACK (034) PEARL WHITE GLOSS (010) GREY (036)
QTY	EACH

6. Hardware & Components

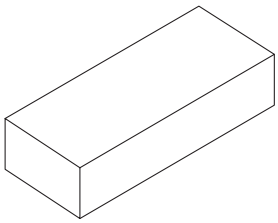
Screen Components



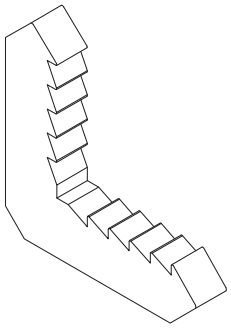
PLASTIC PLUNGER PIN	
PART	1320008
FINISH	BLACK (034)
QTY	EACH



FS2C-A CORNER FOR FS2 25 x 11mm FRAME	
PART	1324001
FINISH	BLACK (034)
QTY	EACH



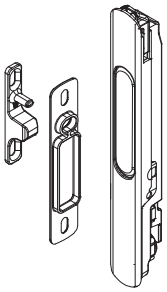
FLYSCREEN TENSION BLOCK	
PART	1315048
FINISH	BLACK (034)
QTY	ROLL



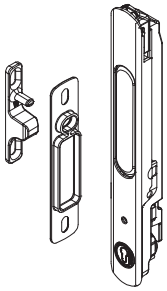
P5 SEC WINDOW CORNER	
PART	1311226
FINISH	BLACK (034)
QTY	EACH

6. Hardware & Components

Locks



AUSTRAL PEARL WINDOW LOCK NO CYLINDER HOLE	
PART / FINISH	1309015 - POWDER COATED (PC) 1309020 - MATT BLACK (0YP) 1309026 - PEARL WHITE (1NT)
QTY	EACH



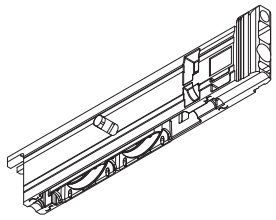
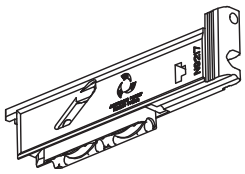
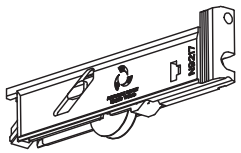
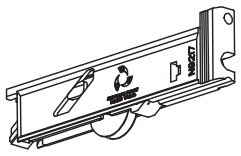
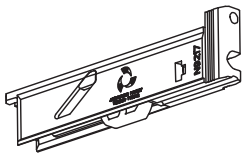
AUSTRAL PEARL WINDOW LOCK WITH CYL KA 007	
PART	1308951
FINISH	PEARL WHITE GLOSS (010) SILVER PAINT (031) BLACK (034)
QTY	EACH

Outer handle will be included but not required to be installed

YV SLIM STD OUTER SLIM INNER NO CYL 16mm STRIKE	
PART	1308716
FINISH	PEARL WHITE GLOSS (010) PRIMROSE GLOSS (012) STONE BEIGE MATT (015) SILVER PAINT (031) BLACK (034) SATIN CHROME (094)
QTY	EACH

6. Hardware & Components

Rollers

	ANTHONY ROLLERS		CIILOCK ROLLERS	
	**TRAXTAR TWO WHEEL ROLLER 110kg SN3617DSPA**		N/A	
	PART	1310261		
	QTY	EACH		
	LOAD CAPACITY	100kg		
	CARRIAGE COLOUR	BLACK (034)		
	**DUAL WHEEL SS BEARING ROLLER (100kg) N9217DSNA**		**DUAL WHEEL ROLLER 100kg 8177-202**	
	PART	1310231	PART	1310242
	QTY	EACH	QTY	EACH
	LOAD CAPACITY	100kg	LOAD CAPACITY	100kg
	CARRIAGE COLOUR	GREY (036)	CARRIAGE COLOUR	BLACK (034)
	**CARINYA SINGLE WHEEL SS BEARING ROLLER (40kg) N5217SNA**		**SINGLE WHEEL ROLLER 40kg 8182-201**	
	PART	1310033	PART	1310241
	QTY	EACH	QTY	EACH
	LOAD CAPACITY	40kg	LOAD CAPACITY	40kg
	CARRIAGE COLOUR	BLACK (034)	CARRIAGE COLOUR	BLACK (034)
	**SINGLE WHEEL SS BEARING ROLLER (50kg) N9217SNA**		N/A	
	PART	1310234		
	QTY	EACH		
	LOAD CAPACITY	50kg		
	CARRIAGE COLOUR	GREY (036)		
	**FIXED PANEL ADJUSTER N9217FPA**		**FIXED PANEL ADJUSTER 3123-10**	
	PART	1310237	PART	1310240
	QTY	EACH	QTY	EACH
	CARRIAGE COLOUR	GREY (036)	CARRIAGE COLOUR	BLACK (034)

6. Hardware & Components

Silicone

100% NEUTRAL CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%
- AS4020 Approved

100% MATTE NEUTRAL CURE SILIICONE

- Premium 100% silicone
- Matte finish
- UV Stable
- Outstanding elongation
- Higher strength

41 CLADDING SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Movement capability + 50%

WET AREA SILICONE

- Premium 100% silicone
- Mould inhibited
- Movement capability + 25%
- UV Stable
- Non corrosive
- Superior adhesion

HYBRID PU ADHESIVE SEALANT

- No isocyanates
- Internal/External
- No shrinking/staining
- Paintable
- Excellent adhesion

20 ACETIC CURE SILICONE

- Premium 100% silicone
- UV Stable
- Superior adhesion
- Flexible + 25%

D60 SILICONE

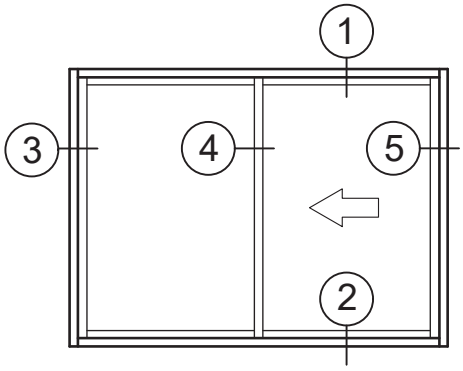
- Premium 100% silicone
- UV Stable
- 2-5 minute skin time
- Flexible + 25%
- No slump

***FOR MORE INFORMATION ON SILICONES, PLEASE REFER TO ALSPEC SILICONE BROCHURE.**

Silicone Product Codes

Product Category	Item No.	Alspec Part No.	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	BLACK	CARTRIDGE
	4	1386140	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	CAULFIELD GREEN	CARTRIDGE
	5	1386111	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	CLASSIC CREAM	CARTRIDGE
	6	1386108	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	LIGHT GREY	CARTRIDGE
	7	1386138	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	MONUMENT	CARTRIDGE
	8	1386112	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	OFF WHITE	CARTRIDGE
	9	1386141	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	STONE BEIGE	CARTRIDGE
	10	1386101	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	11	1386106	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WHITE	CARTRIDGE
	12	1386143	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WOODLAND GREY	CARTRIDGE
ALSPEC 100% MATT	13	1386103	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	BLACK MATT	CARTRIDGE
	14	1386107	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	LIGHT GREY MATT	CARTRIDGE
	15	1386144	ALSPEC 100% NEUTRAL CURE SILICONE x 300ml CAT	WHITE MATT	CARTRIDGE
ALSPEC 20	16	1386115	ALSPEC 20 ACETIC CURE SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
ALSPEC 41 CLADDING	17	1386159	ALSPEC 41 CLADDING SILICONE x 300ml CAT	BLACK MATT	CARTRIDGE
	18	1386117	ALSPEC 41 CLADDING SILICONE x 600ml SAU	BLACK MATT	SAUSAGE
	19	1386158	ALSPEC 41 CLADDING SILICONE x 300ml CAT	LIGHT GREY MATT	CARTRIDGE
	20	1386118	ALSPEC 41 CLADDING SILICONE x 600ml SAU	LIGHT GREY MATT	SAUSAGE
	21	1386157	ALSPEC 41 CLADDING SILICONE x 300ml CAT	WHITE MATT	CARTRIDGE
	22	1386145	ALSPEC 41 CLADDING SILICONE x 600ml SAU	WHITE MATT	SAUSAGE
ALSPEC D60	23	1386121	ALSPEC D60 SILICONE x 300ml CAT	BLACK	CARTRIDGE
	25	1386123	ALSPEC D60 SILICONE x 300ml CAT	GREY	CARTRIDGE
	26	1386120	ALSPEC D60 SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	27	1386124	ALSPEC D60 SILICONE x 300ml CAT	WHITE	CARTRIDGE
ALSPEC HYBRID PU	28	1386127	ALSPEC HYBRID PU x 300ml CAT	BLACK	CARTRIDGE
	29	1386126	ALSPEC HYBRID PU x 600ml SAU	BLACK	SAUSAGE
	30	1386160	ALSPEC HYBRID PU x 300ml CAT	GREY	CARTRIDGE
	31	1386128	ALSPEC HYBRID PU x 600ml SAU	GREY	SAUSAGE
	32	1386130	ALSPEC HYBRID PU x 300ml CAT	WHITE	CARTRIDGE
	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
ALSPEC WET AREA	34	1386137	ALSPEC WET AREA SILICONE x 300ml CAT	ALMOND IVORY	CARTRIDGE
	35	1386139	ALSPEC WET AREA SILICONE x 300ml CAT	BLACK	CARTRIDGE
	36	1386146	ALSPEC WET AREA SILICONE x 300ml CAT	BLUESTONE	CARTRIDGE
	37	1386147	ALSPEC WET AREA SILICONE x 300ml CAT	CHARCOAL	CARTRIDGE
	38	1386136	ALSPEC WET AREA SILICONE x 300ml CAT	LIGHT GREY	CARTRIDGE
	39	1386148	ALSPEC WET AREA SILICONE x 300ml CAT	MID GREY	CARTRIDGE
	40	1386149	ALSPEC WET AREA SILICONE x 300ml CAT	OFF WHITE	CARTRIDGE
	41	1386150	ALSPEC WET AREA SILICONE x 300ml CAT	PEWTER	CARTRIDGE
	42	1386151	ALSPEC WET AREA SILICONE x 300ml CAT	STONE BEIGE	CARTRIDGE
	43	1386154	ALSPEC WET AREA SILICONE x 300ml CAT	TAUPE	CARTRIDGE
	44	1386152	ALSPEC WET AREA SILICONE x 300ml CAT	TILE GREY	CARTRIDGE
	45	1386133	ALSPEC WET AREA SILICONE x 300ml CAT	TRANSLUCENT	CARTRIDGE
	46	1386153	ALSPEC WET AREA SILICONE x 300ml CAT	TRAVERTINE	CARTRIDGE
	47	1386134	ALSPEC WET AREA SILICONE x 300ml CAT	WHITE	CARTRIDGE

7. Typical Elevation



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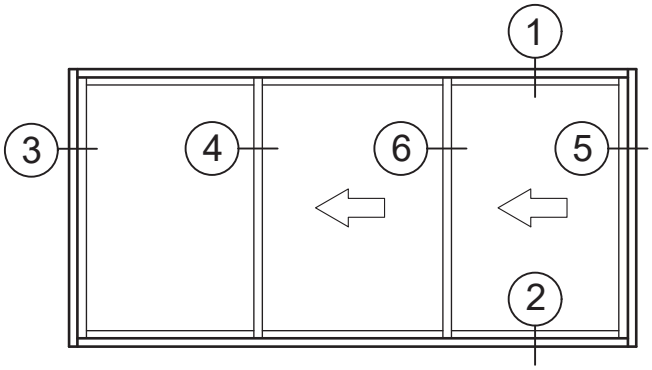

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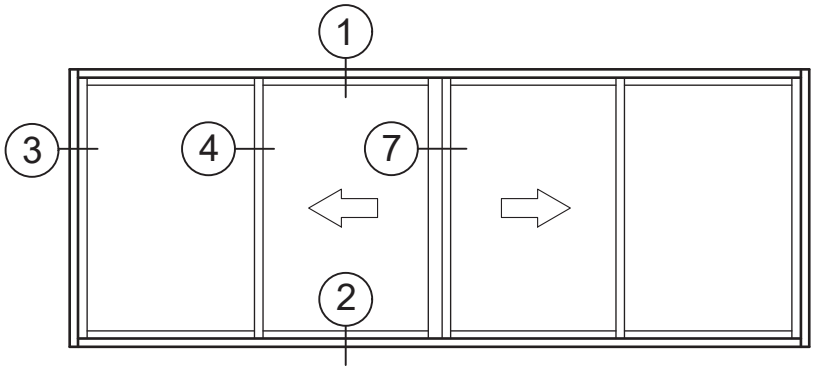

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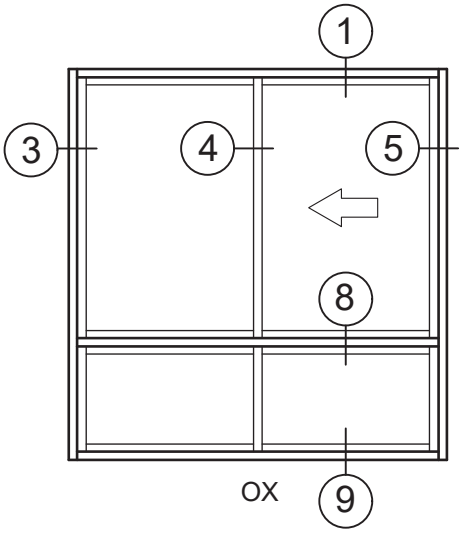
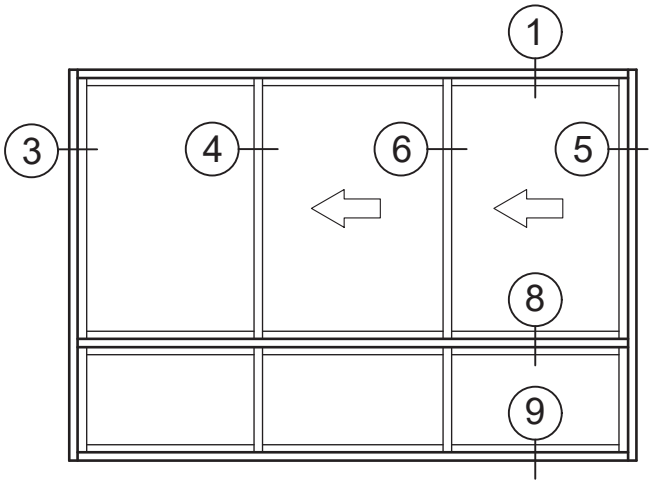
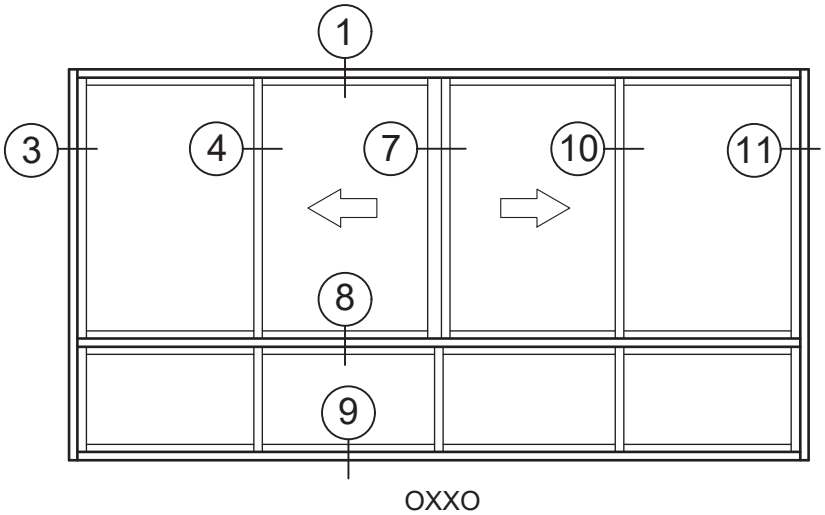
7. Typical Elevation



OX



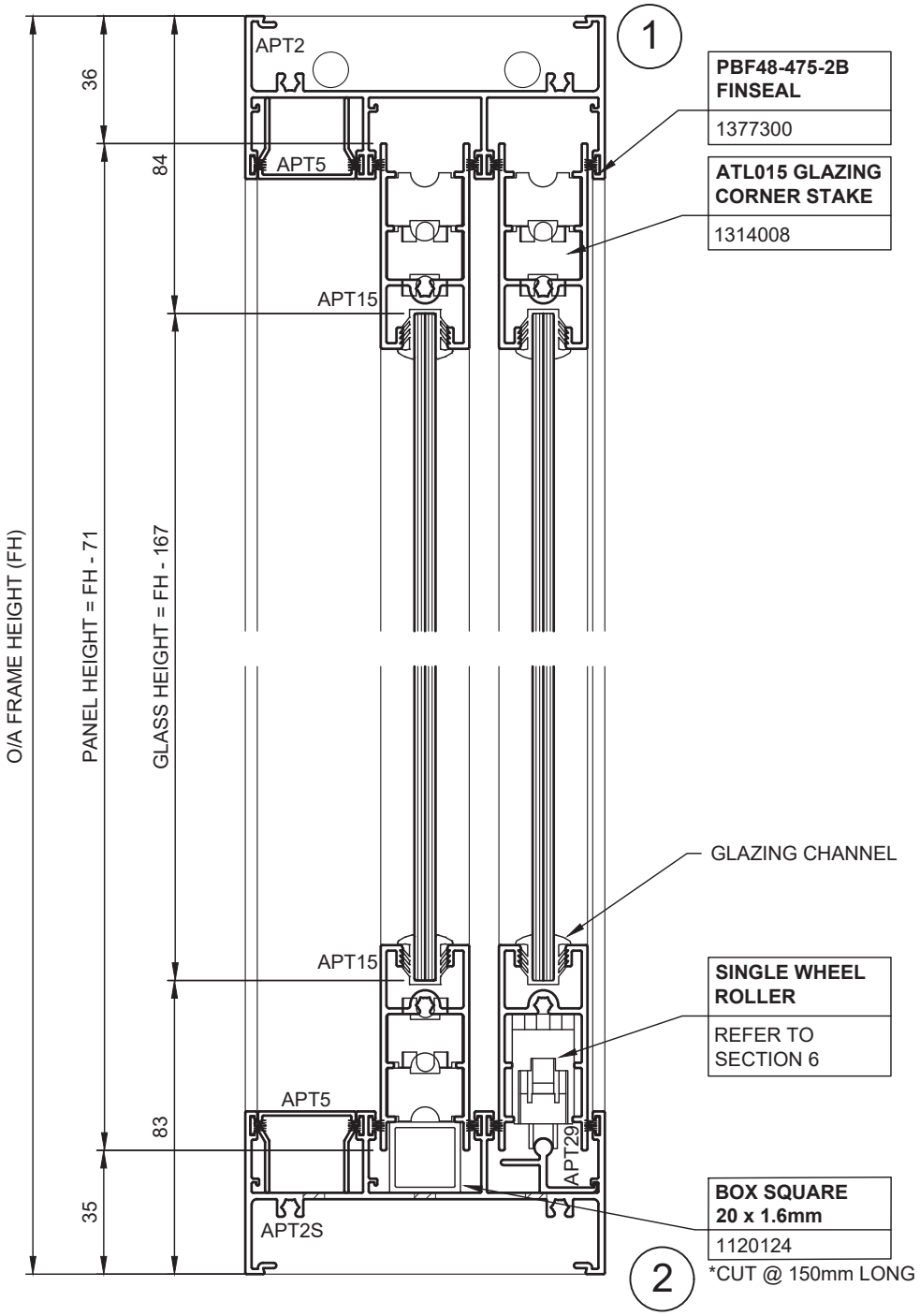
OXX



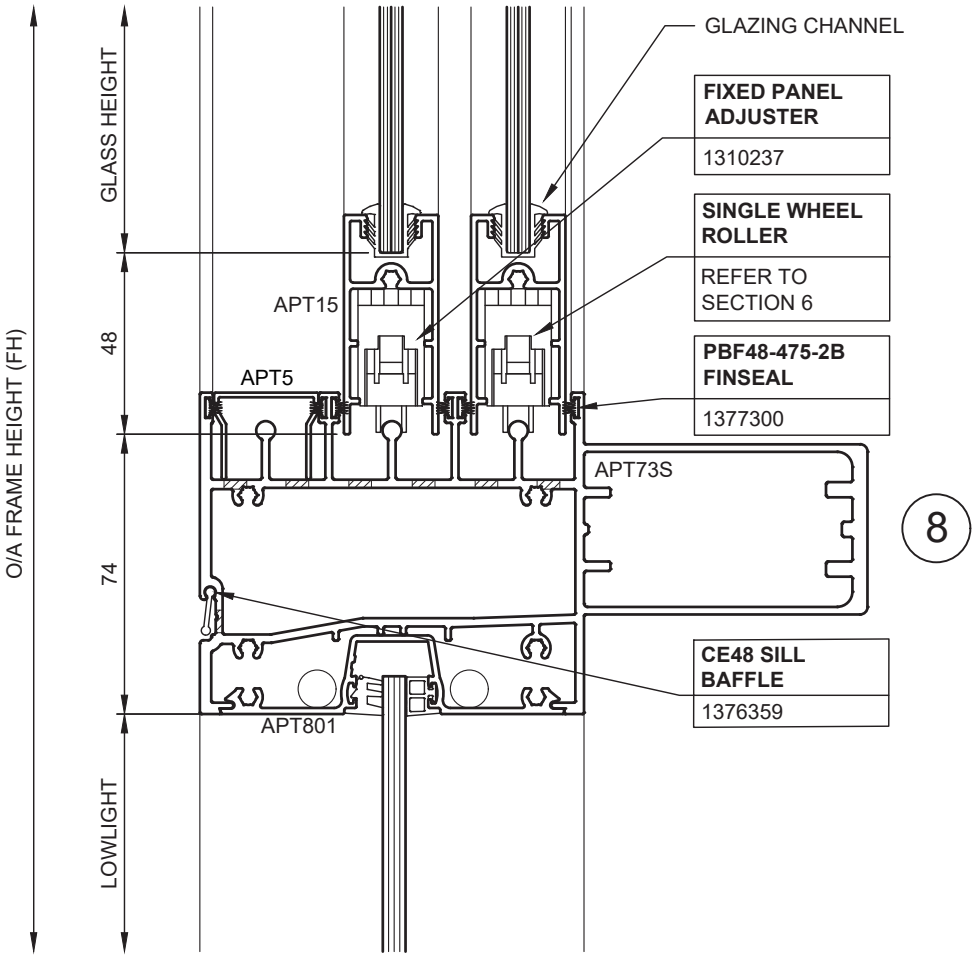
OXXO

8. Typical Details

Vertical OX Internal Slider

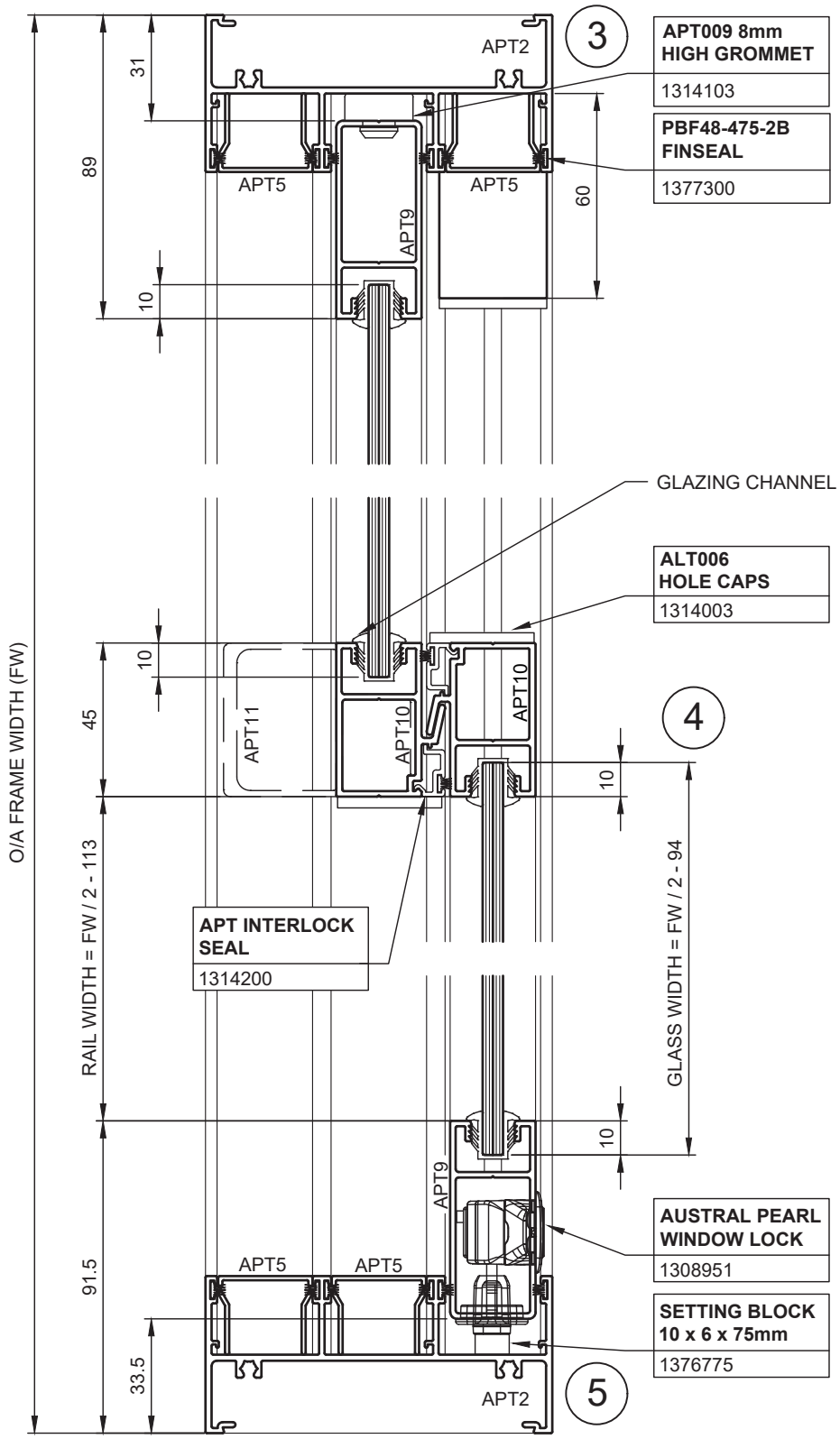


Vertical OX Internal Slider with Low Light

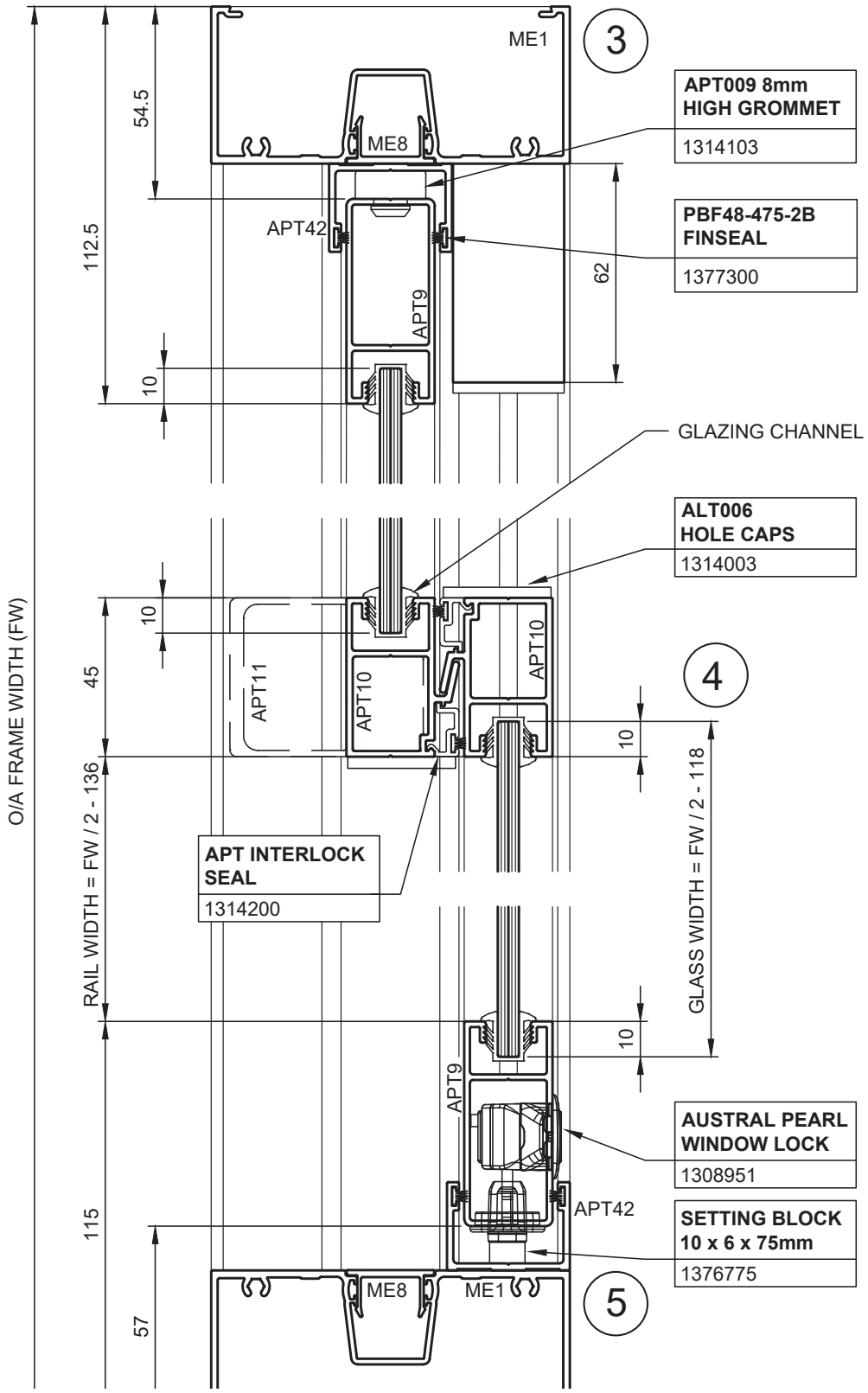


8. Typical Details

Horizontal OX Internal Slider

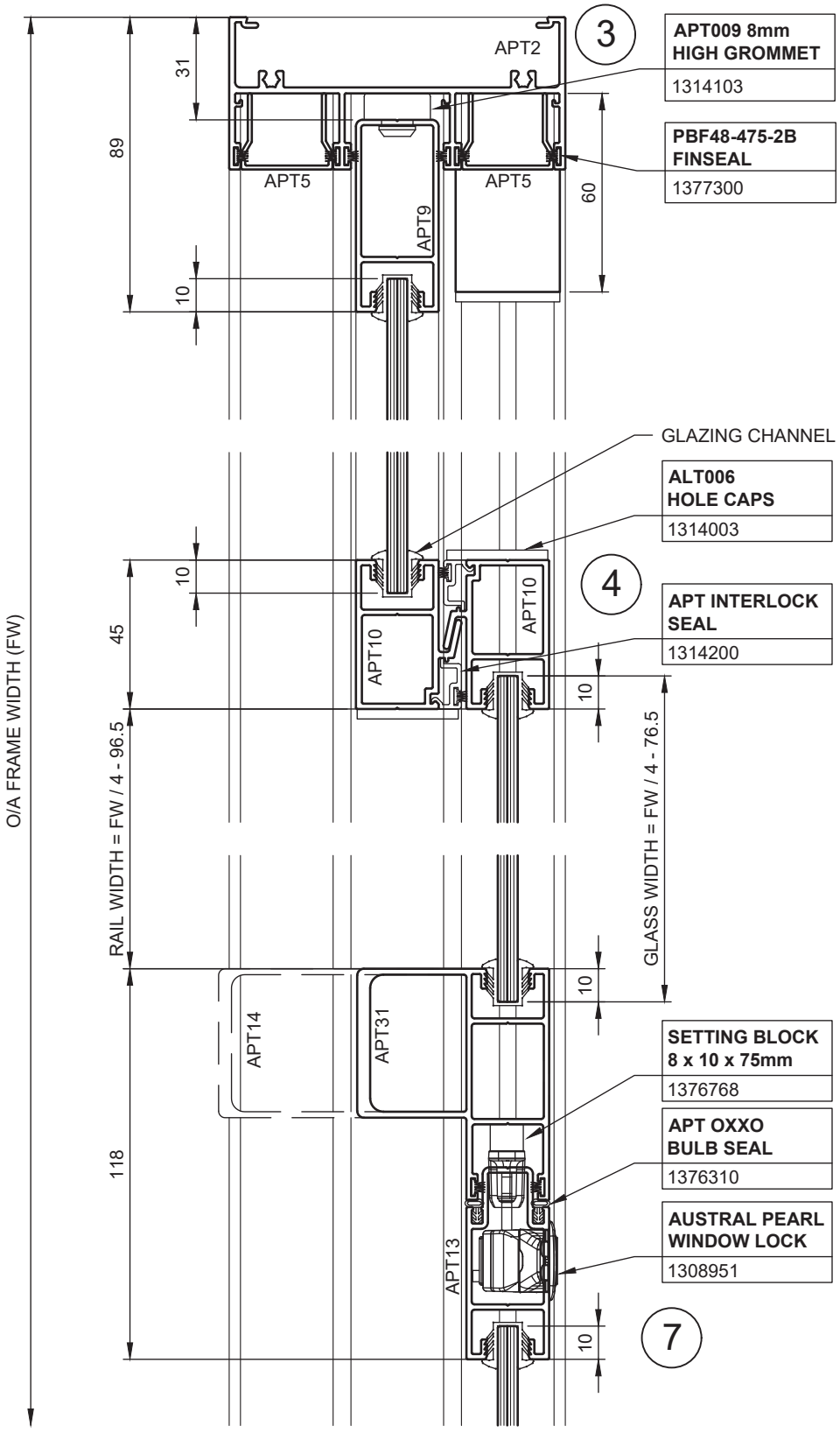


Horizontal OX Internal Slider - ALT Jamb

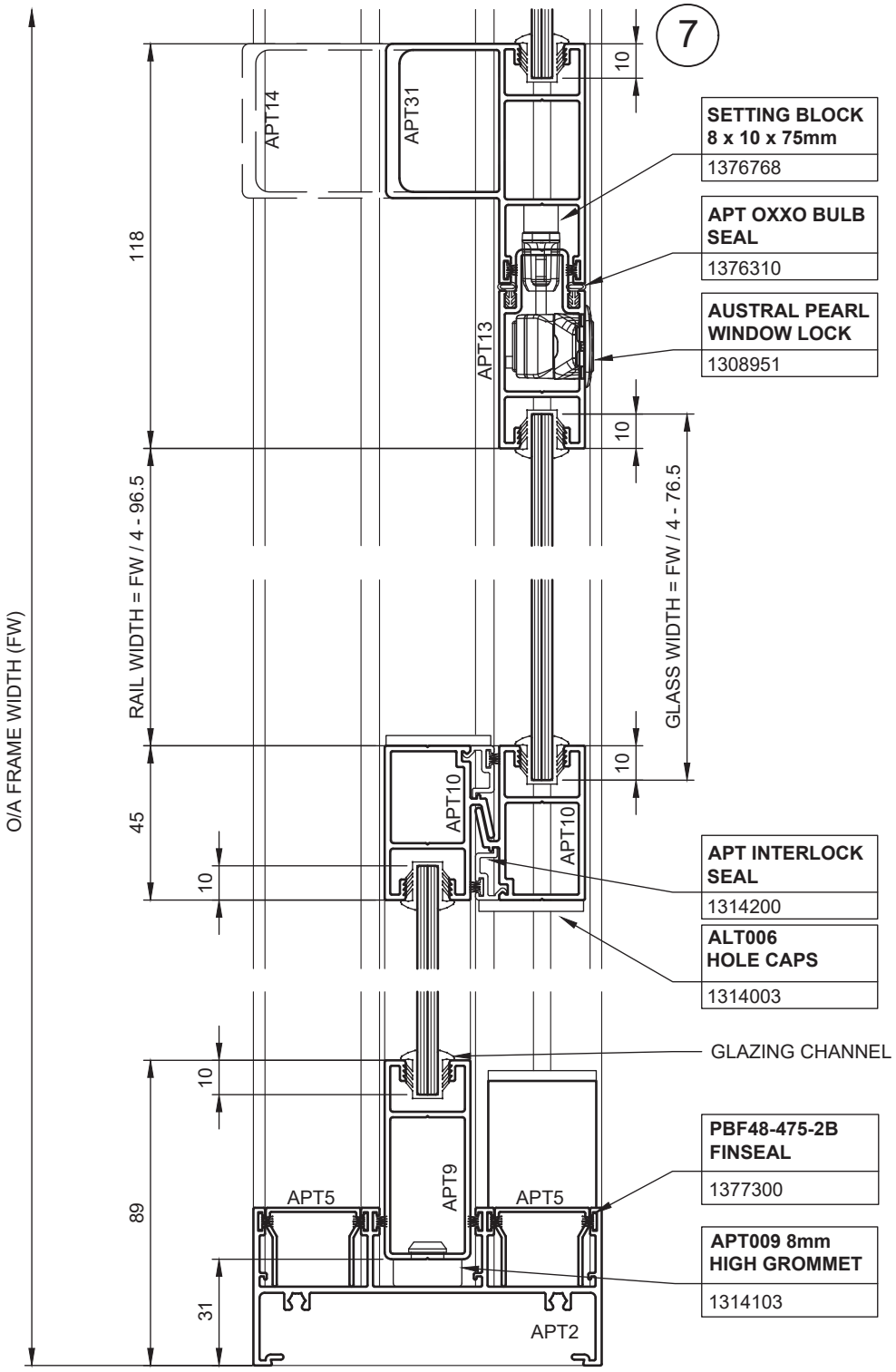


8. Typical Details

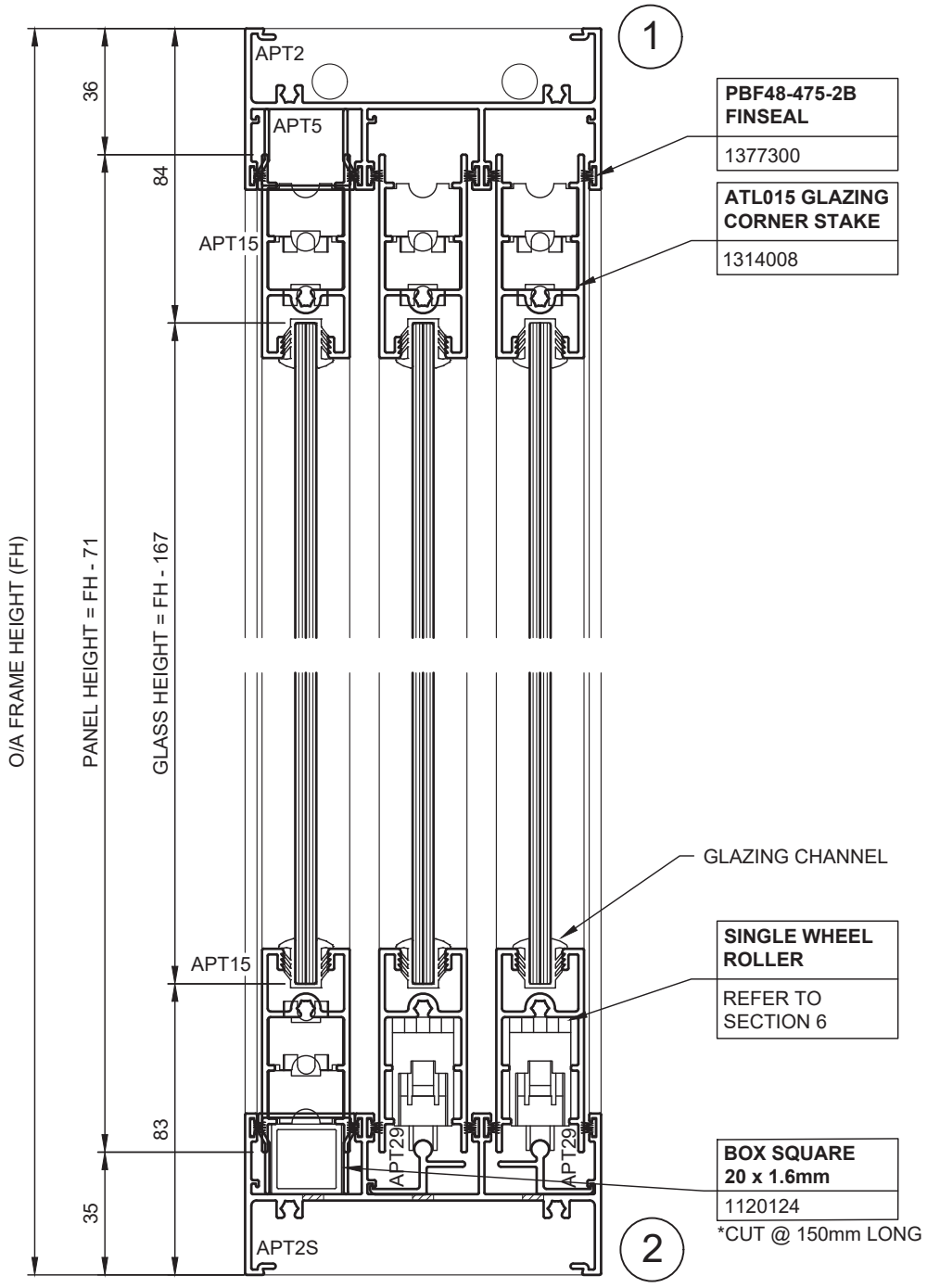
Horizontal OXXO



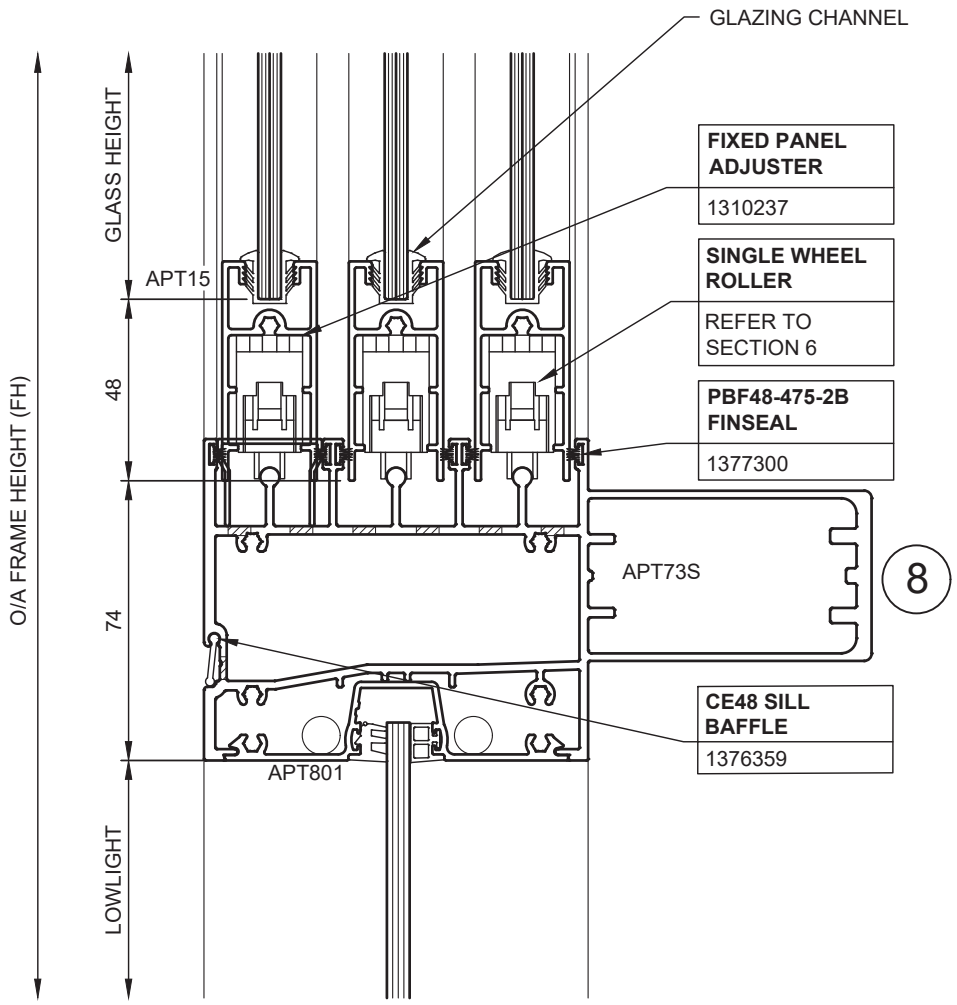
Horizontal OXXO



Vertical OXX Internal Slider

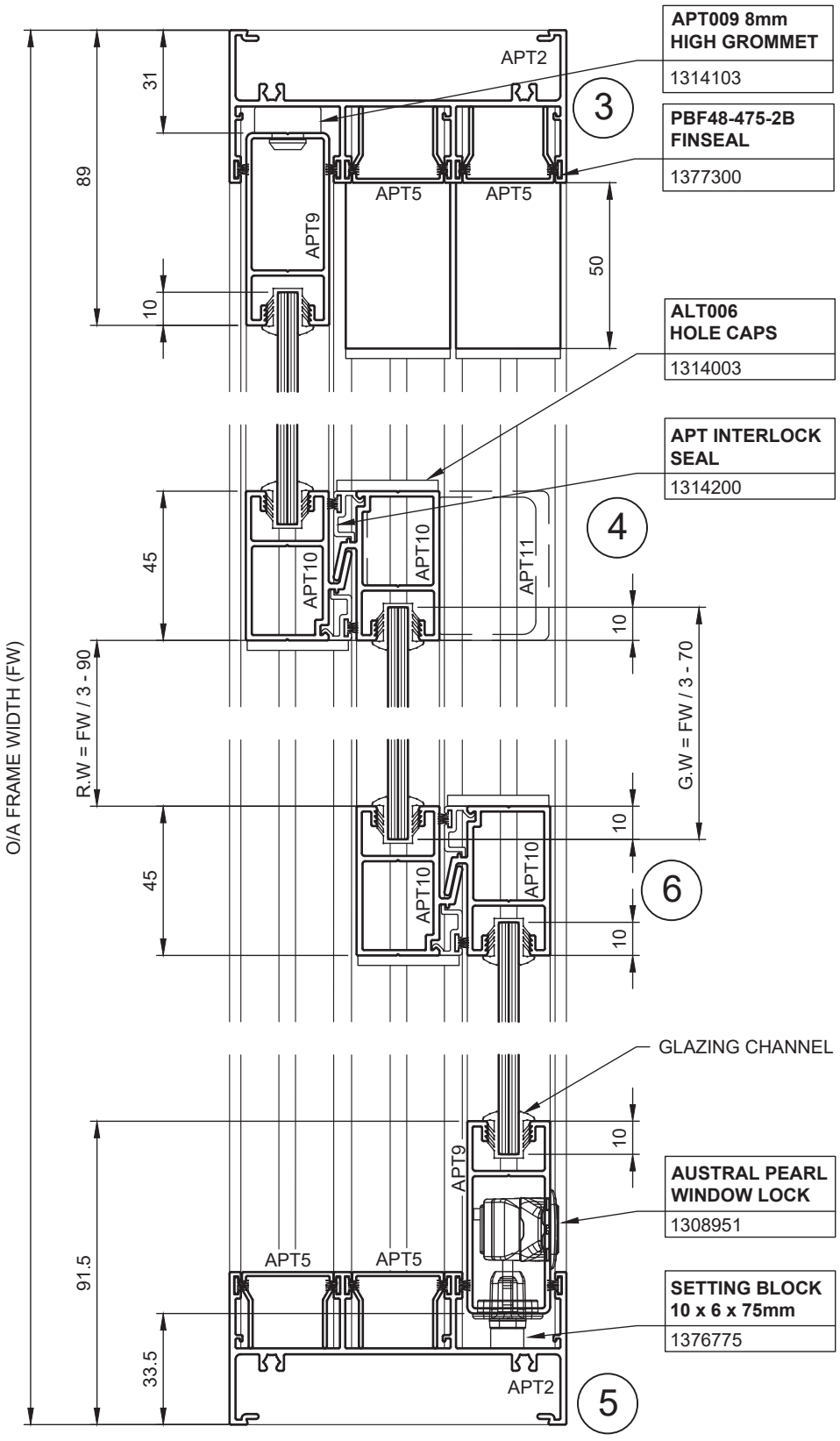


Vertical OXX Internal Slider with Low Light

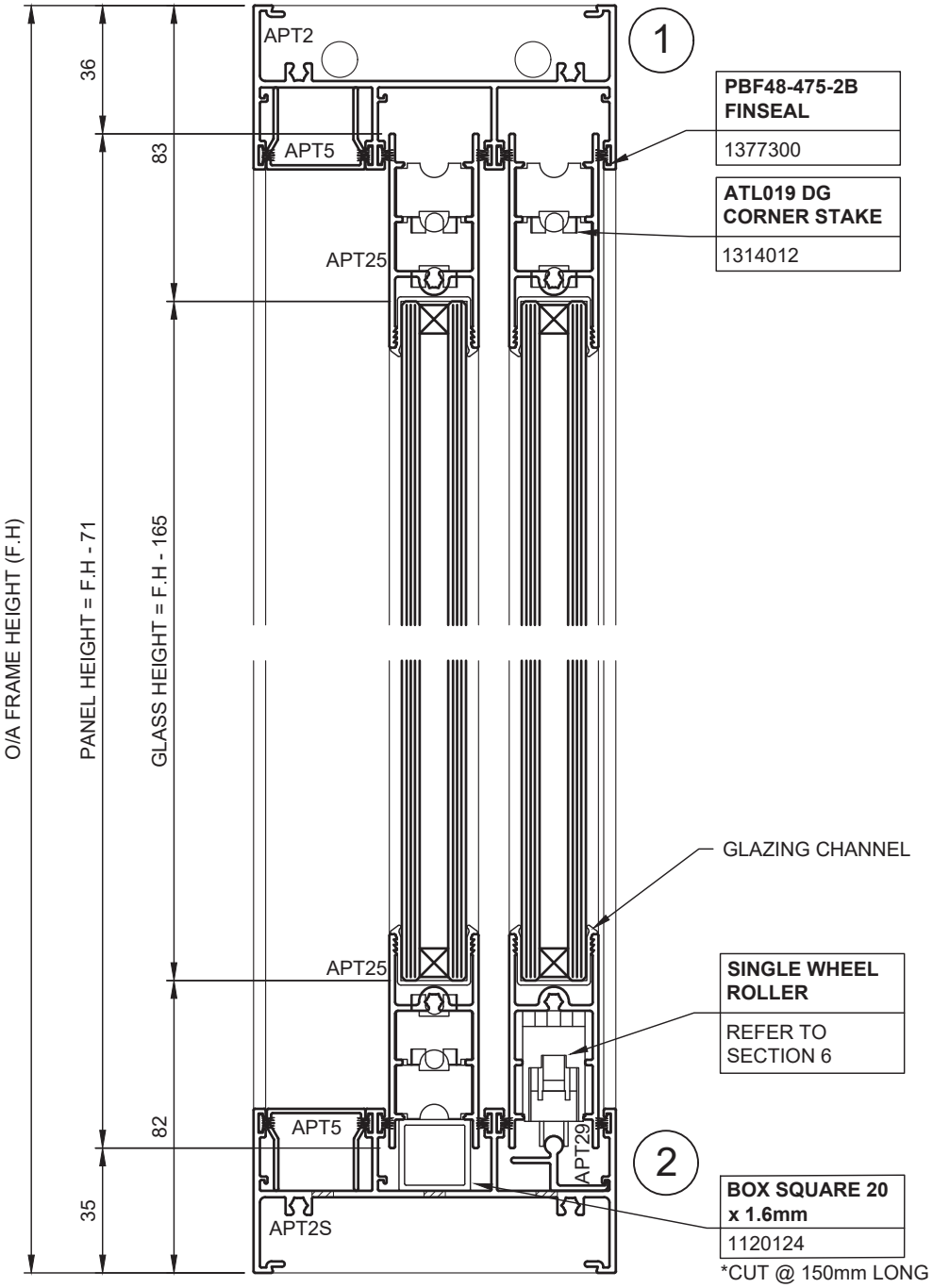


8. Typical Details

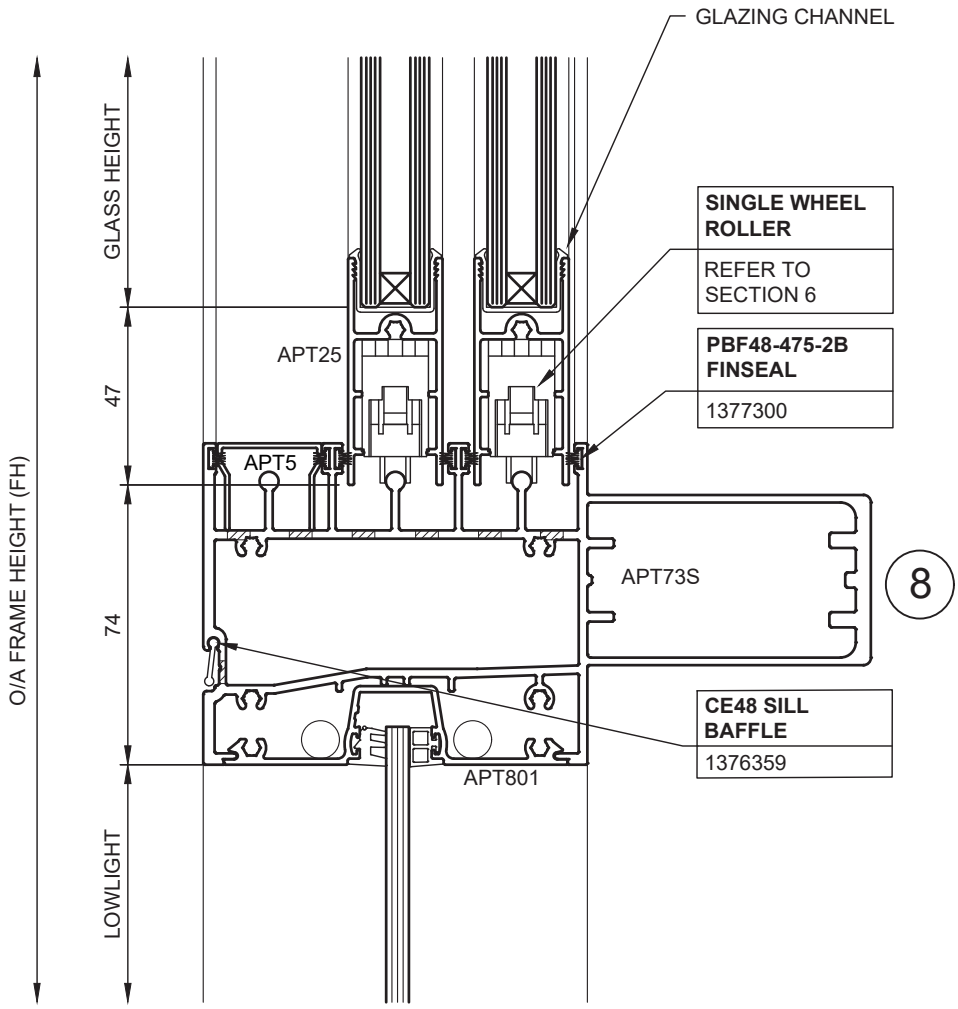
Horizontal OXX Internal Slider



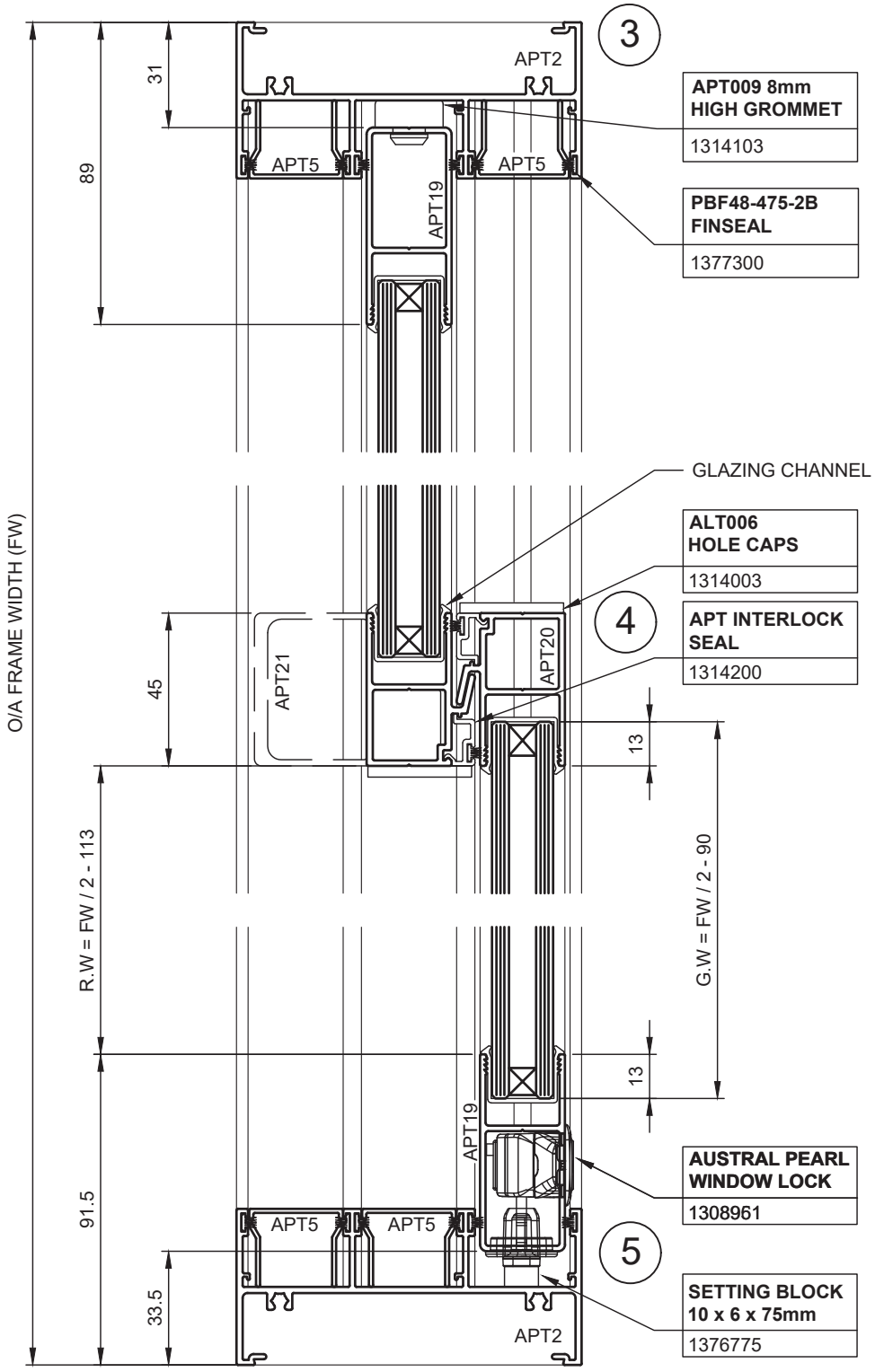
Double Glazed Vertical OX Internal Slider



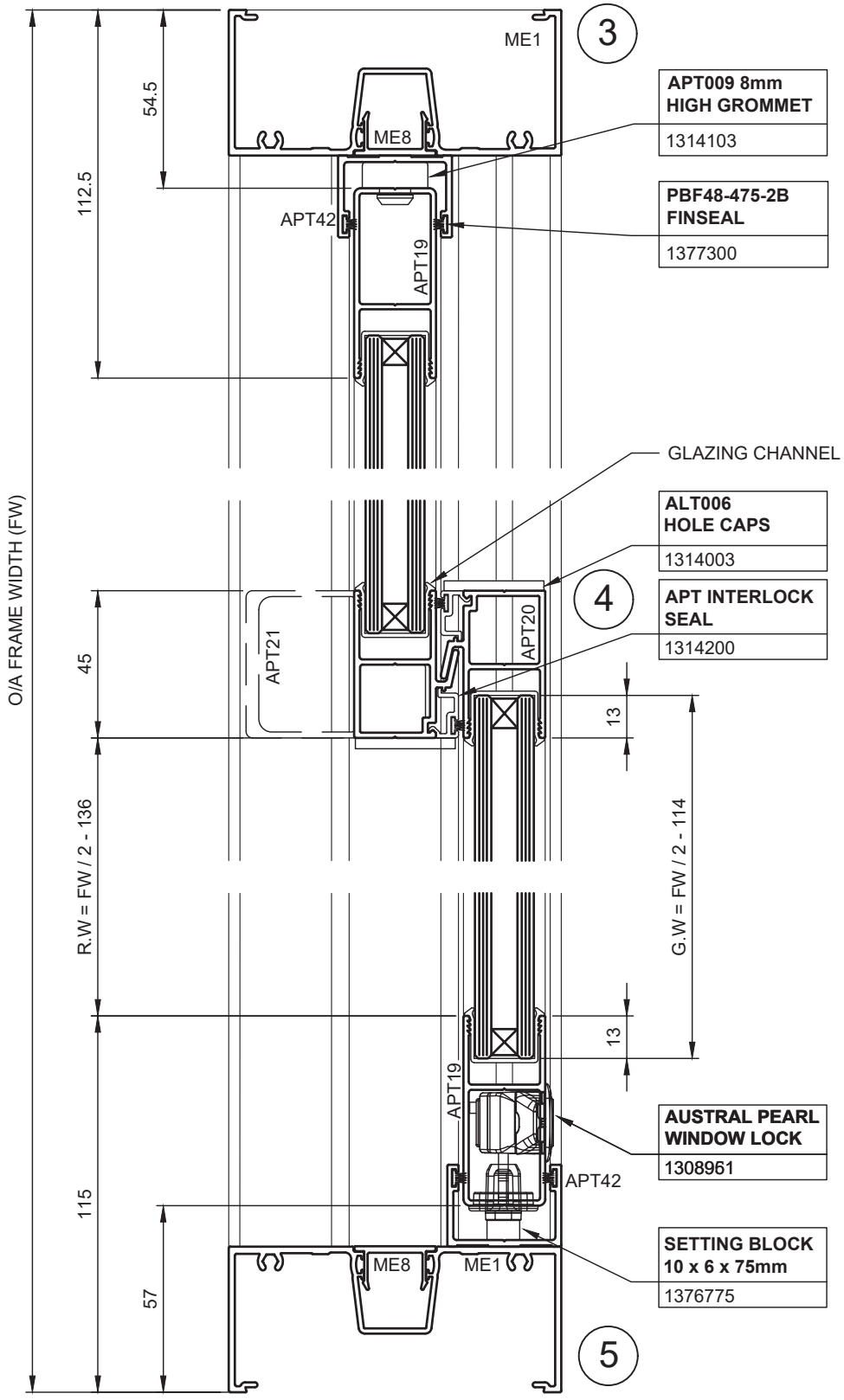
Double Glazed Vertical OX Internal Slider with Low Light



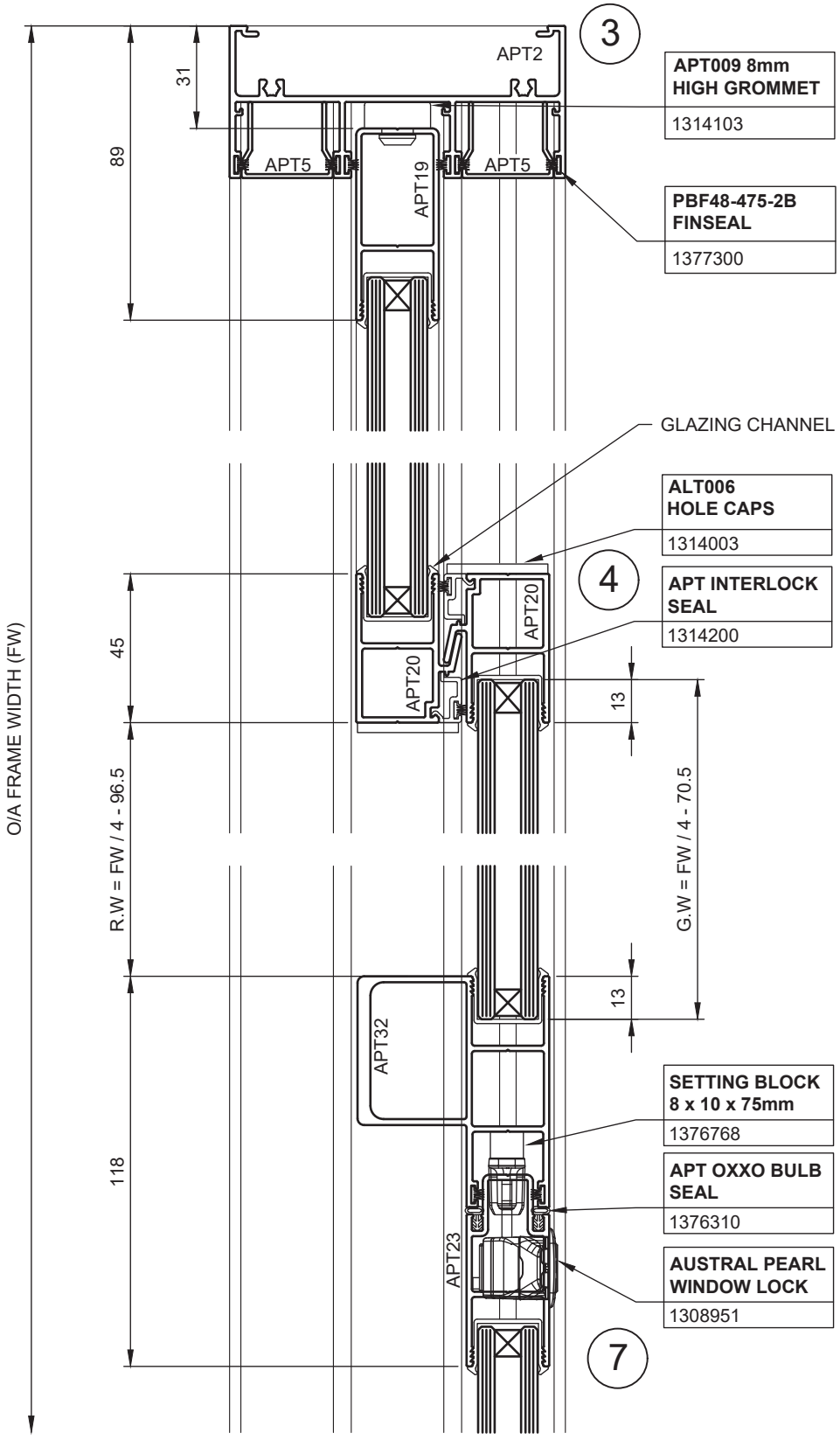
Double Glazed Horizontal OX Internal Slider



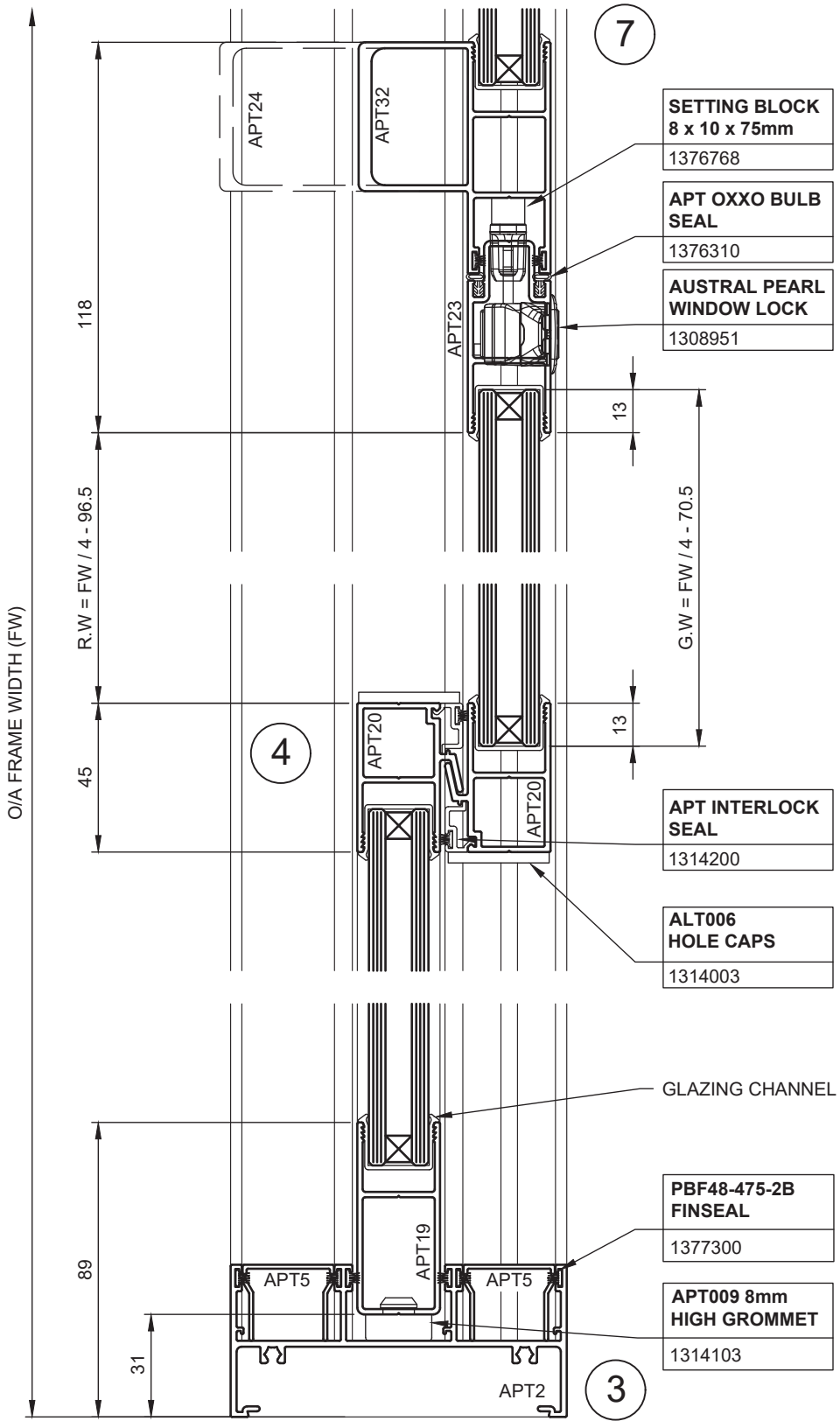
Double Glazed Horizontal OX Internal Slider - ALT Jamb



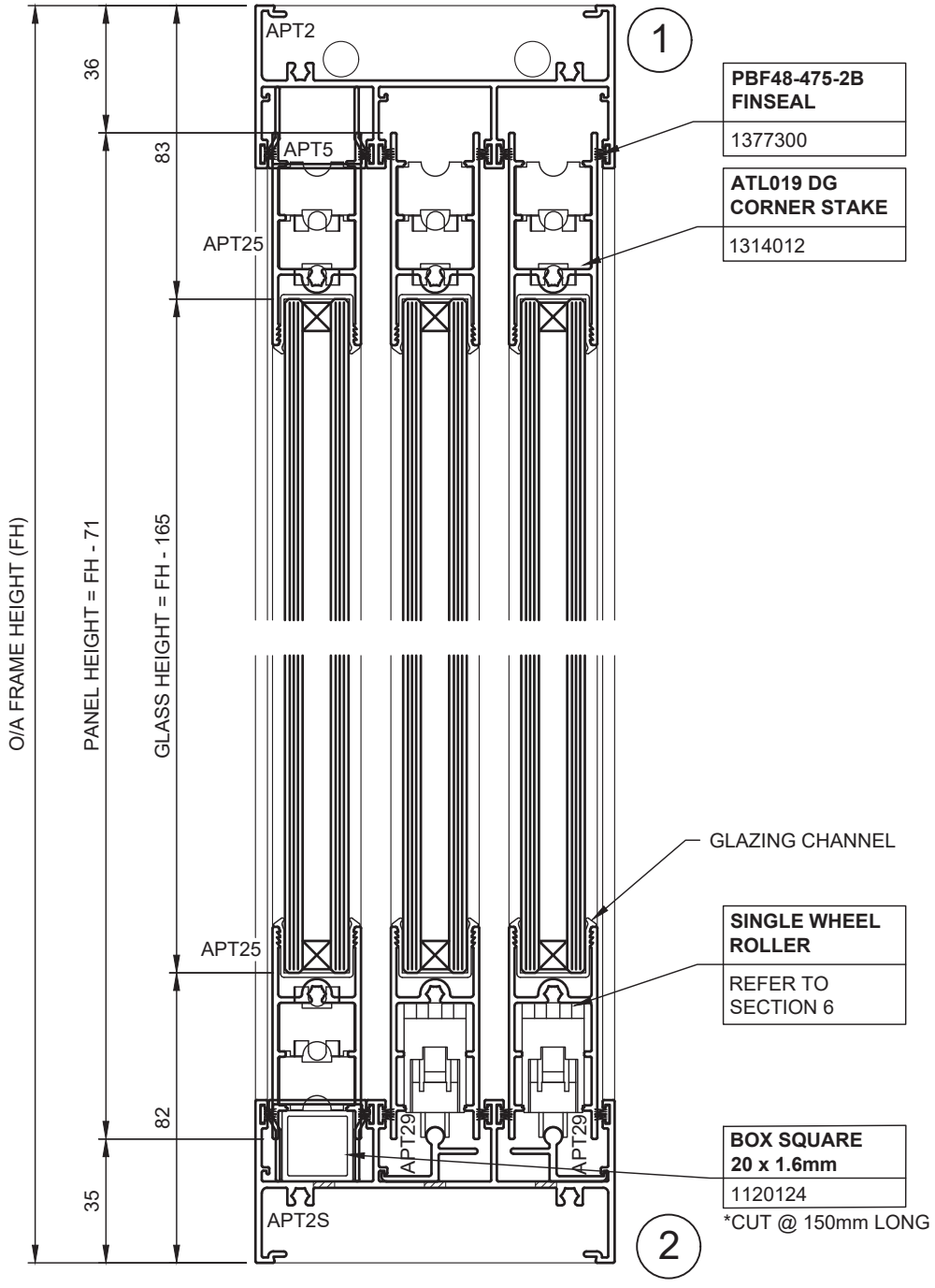
Double Glazed Horizontal OXXO Internal Slider



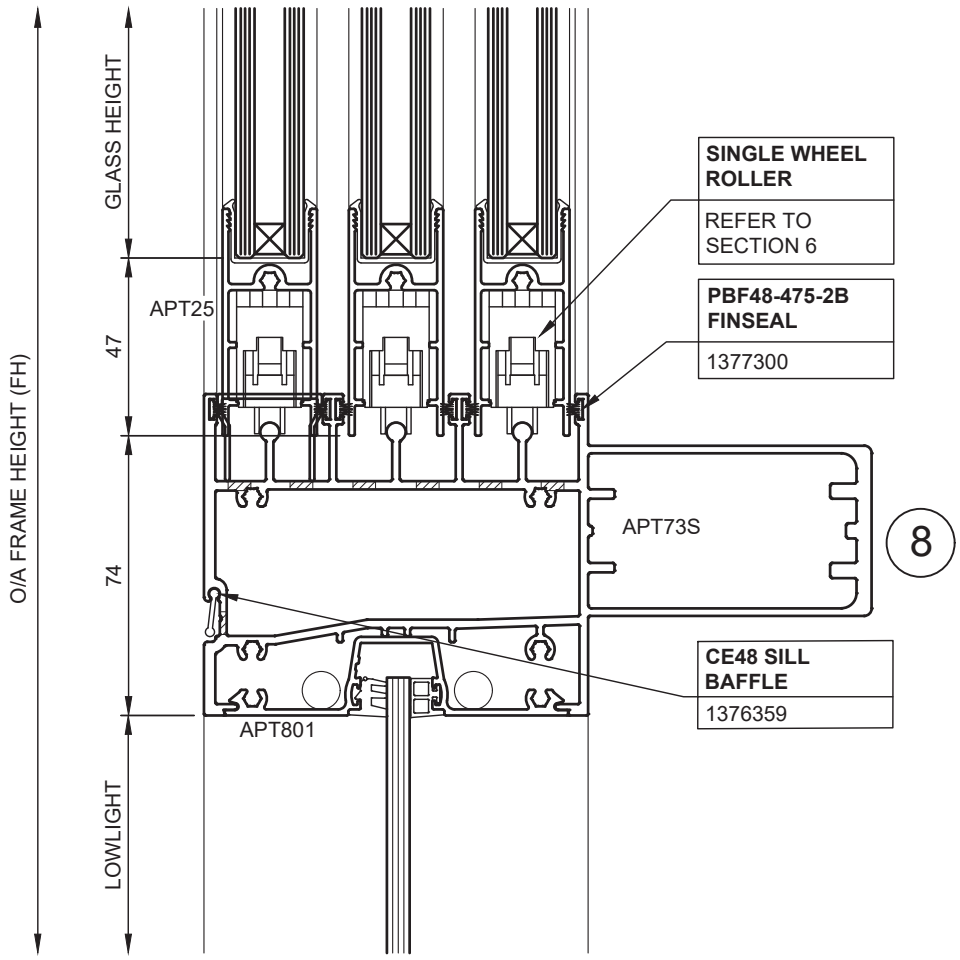
Double Glazed Horizontal OXXO Internal Slider



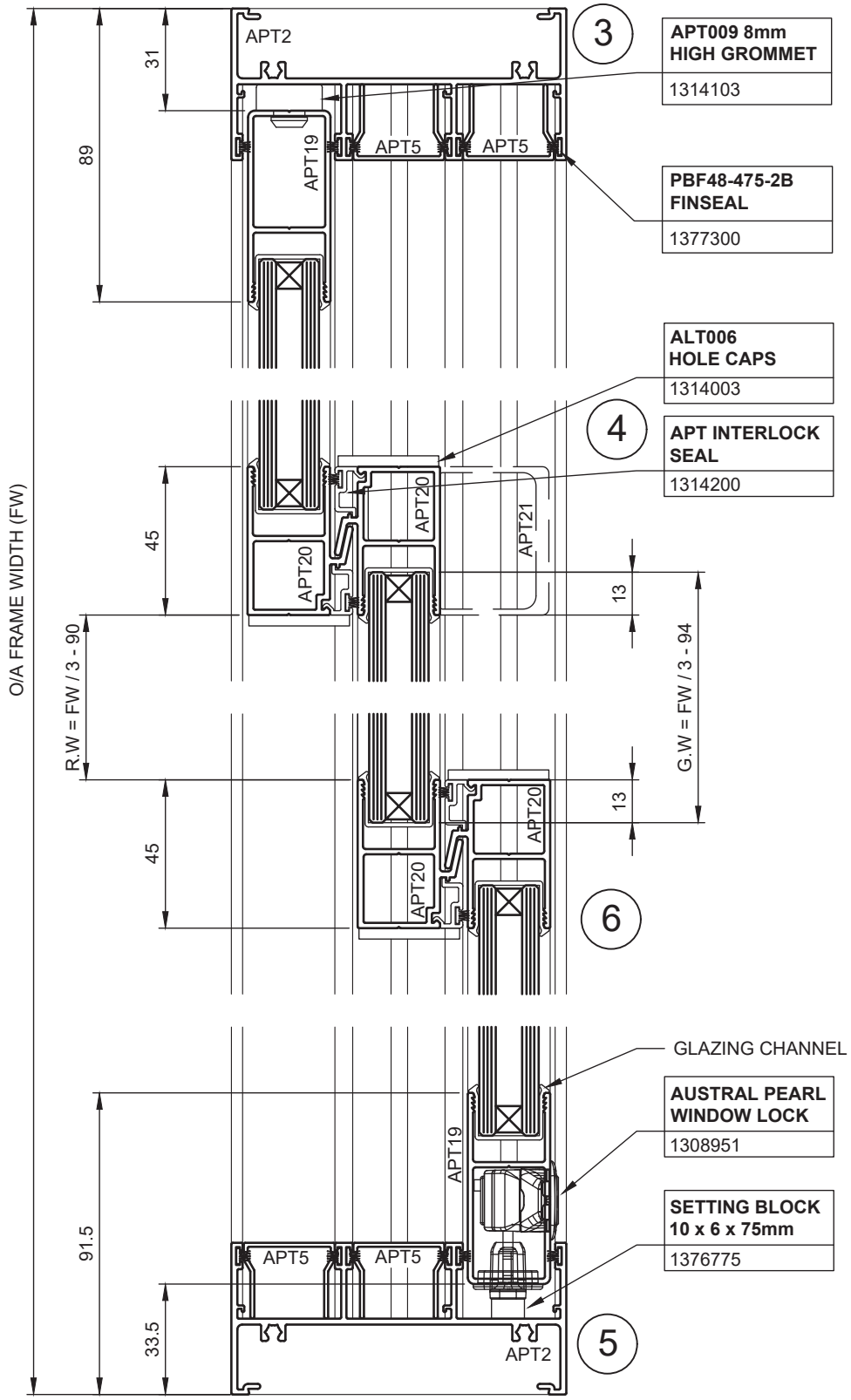
Double Glazed Vertical OXX Internal Slider



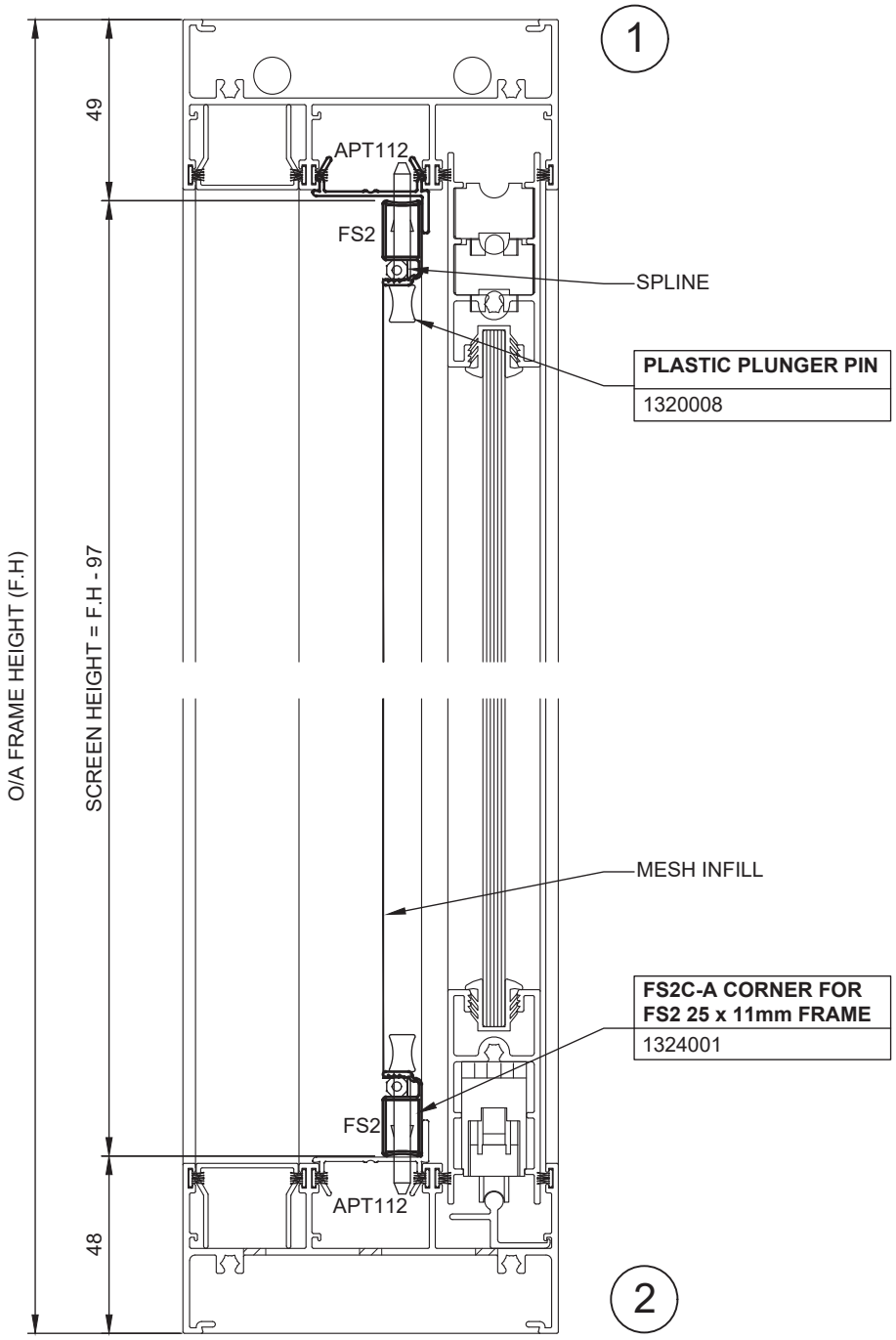
Double Glazed Vertical OXX Internal Slider with Low Light



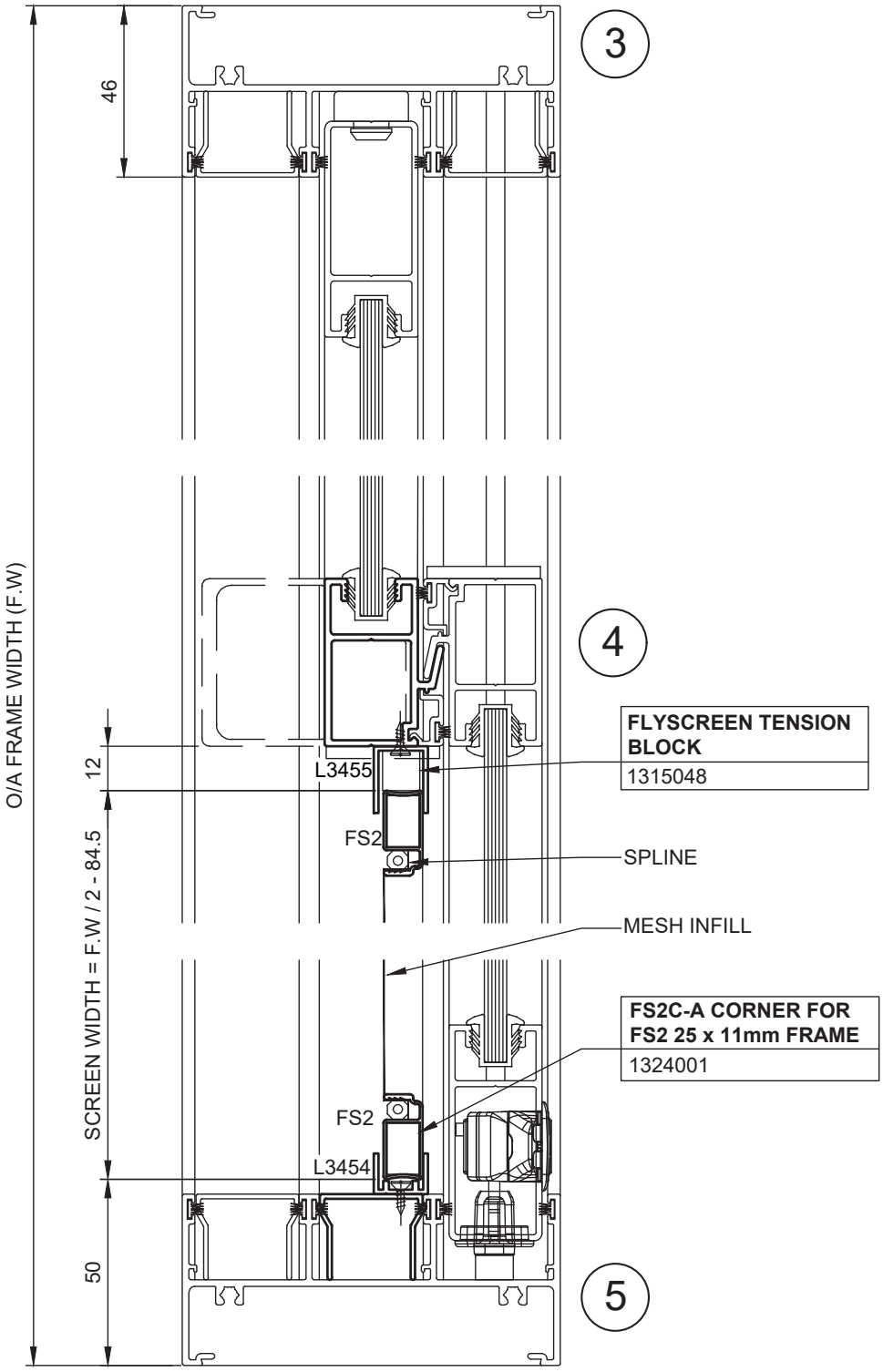
Double Glazed Horizontal OXX Internal Slider



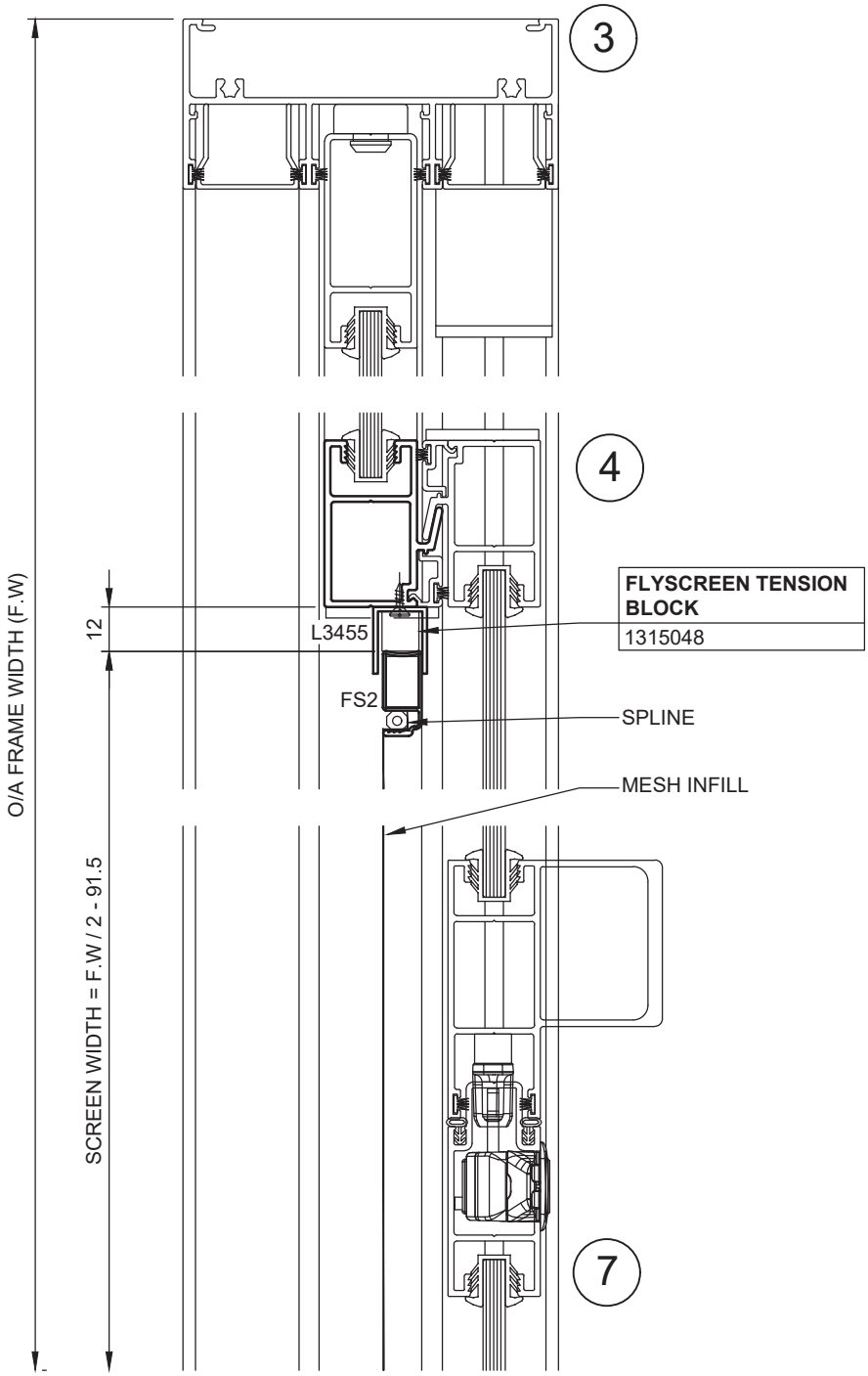
OX Fly-Screen Vertical Detail



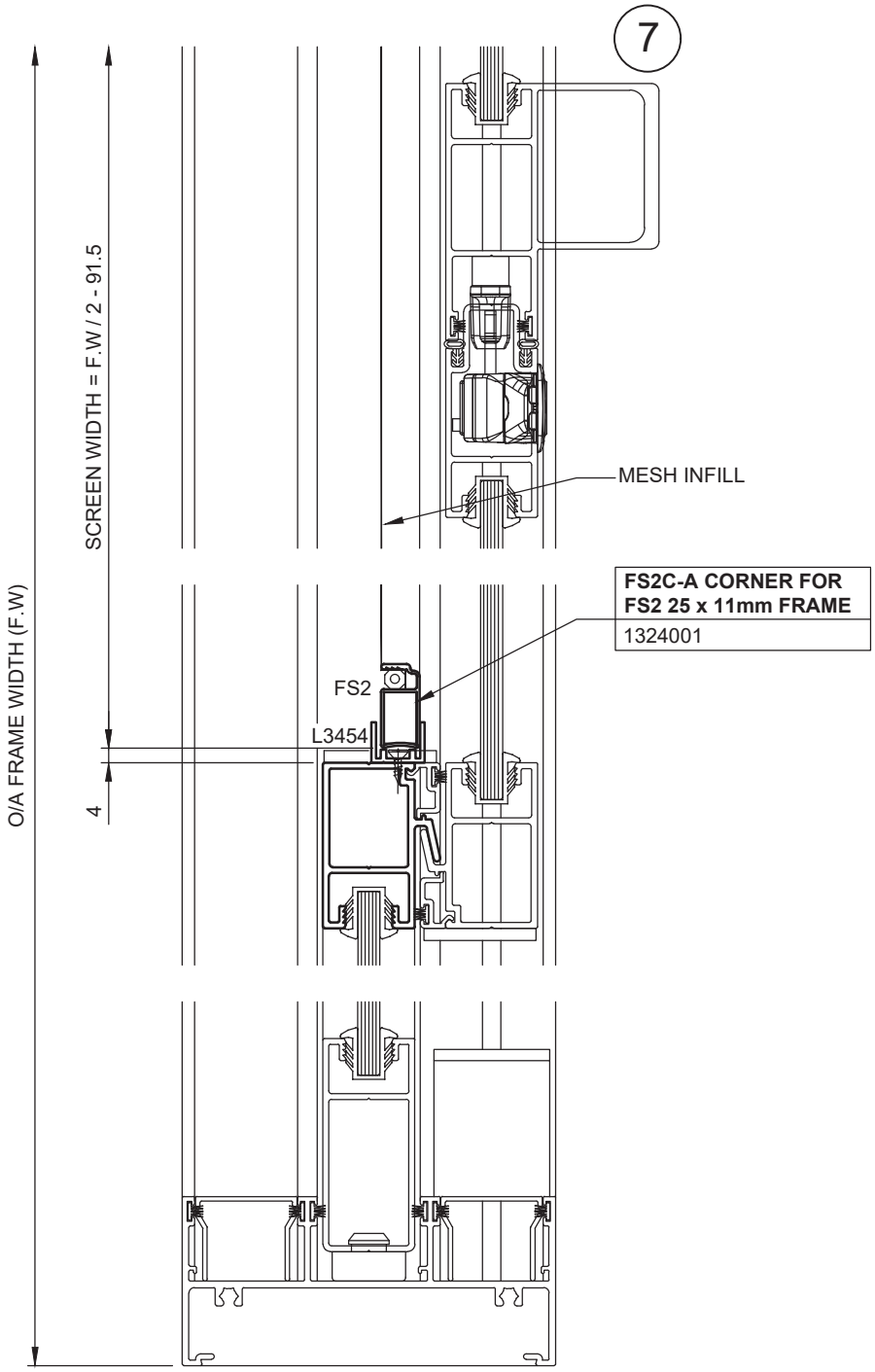
OX Fly-Screen Horizontal Detail



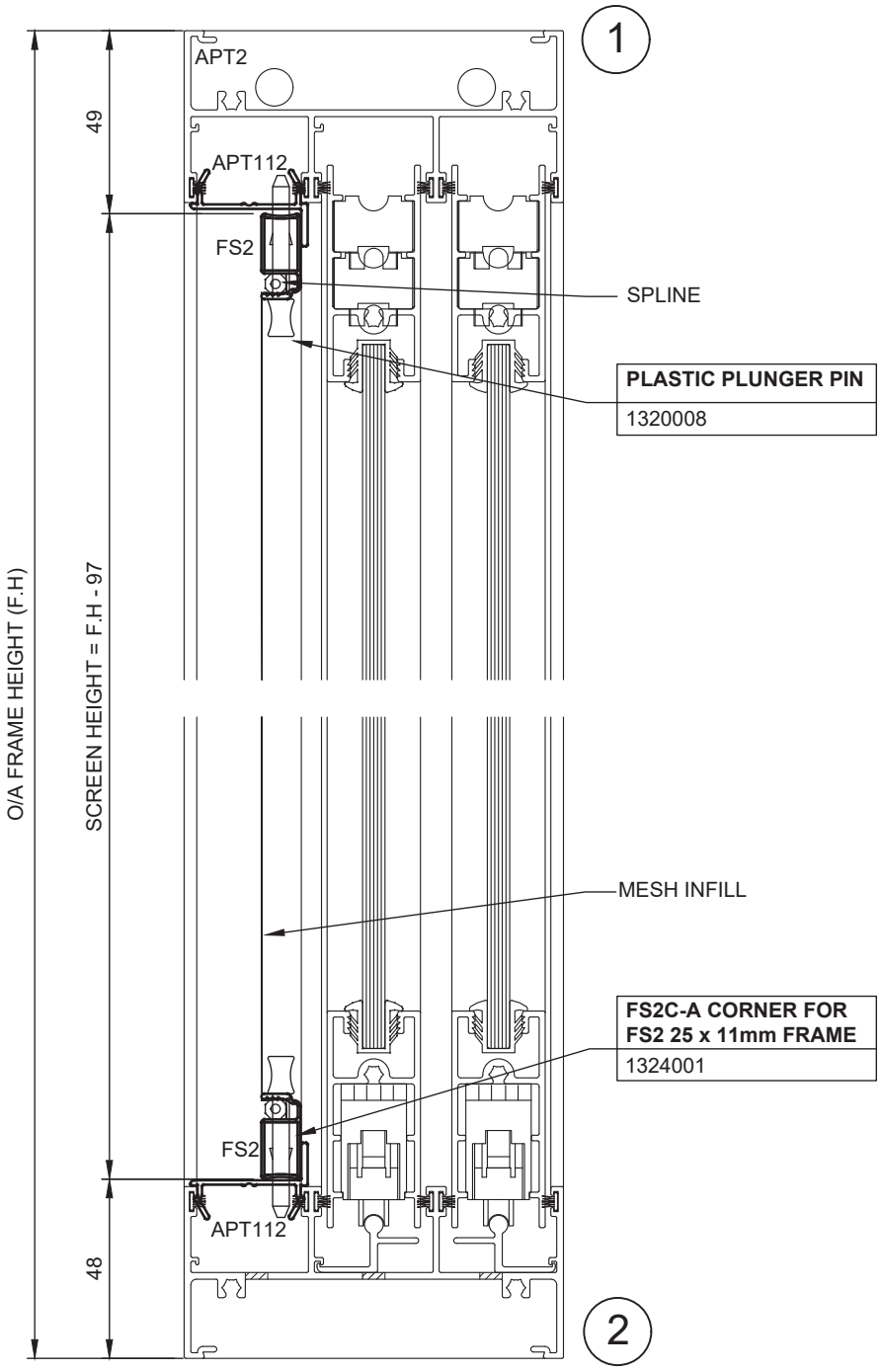
OXXO Fly-Screen Horizontal Detail



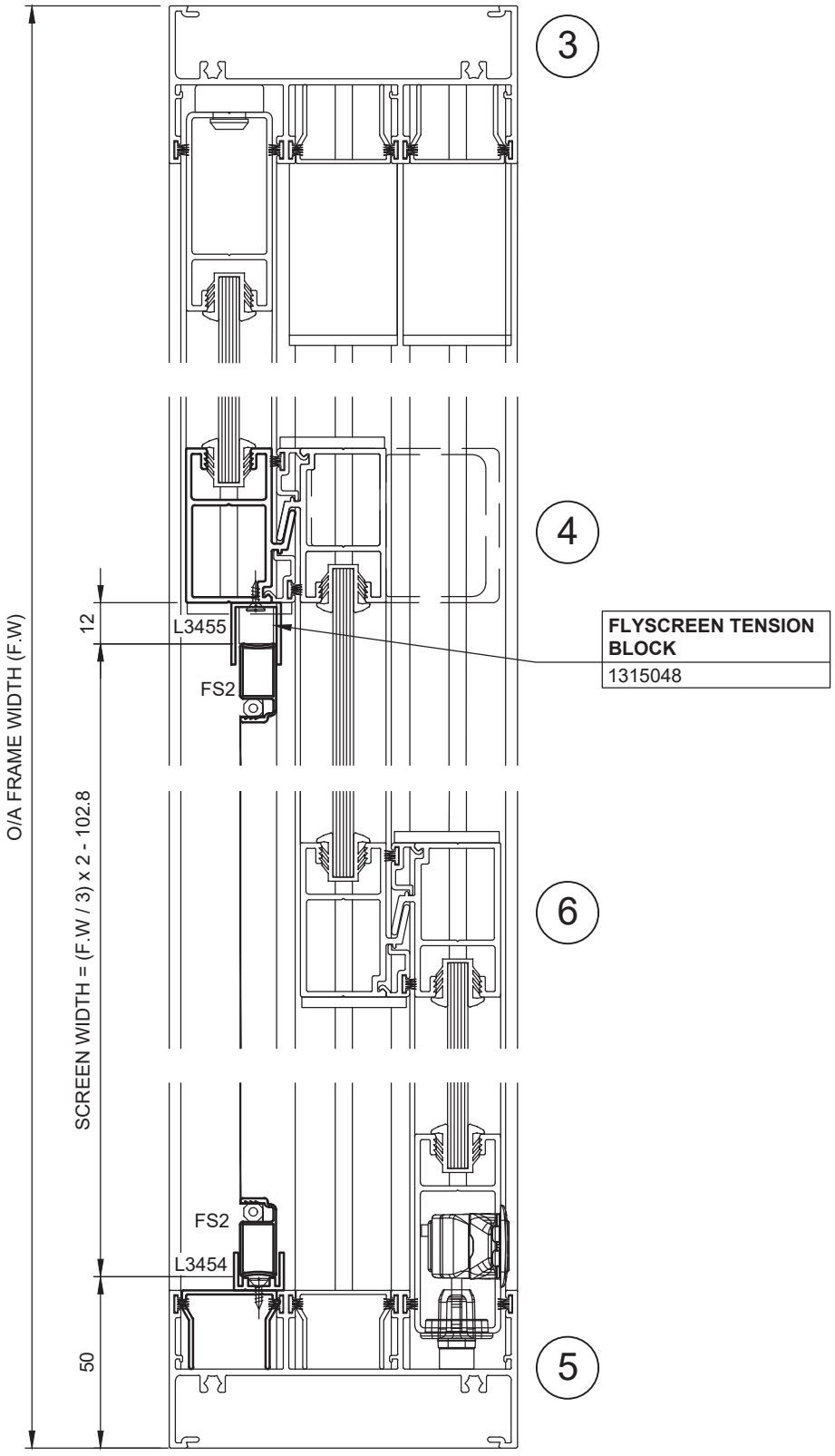
OXXO Fly-Screen Horizontal Detail



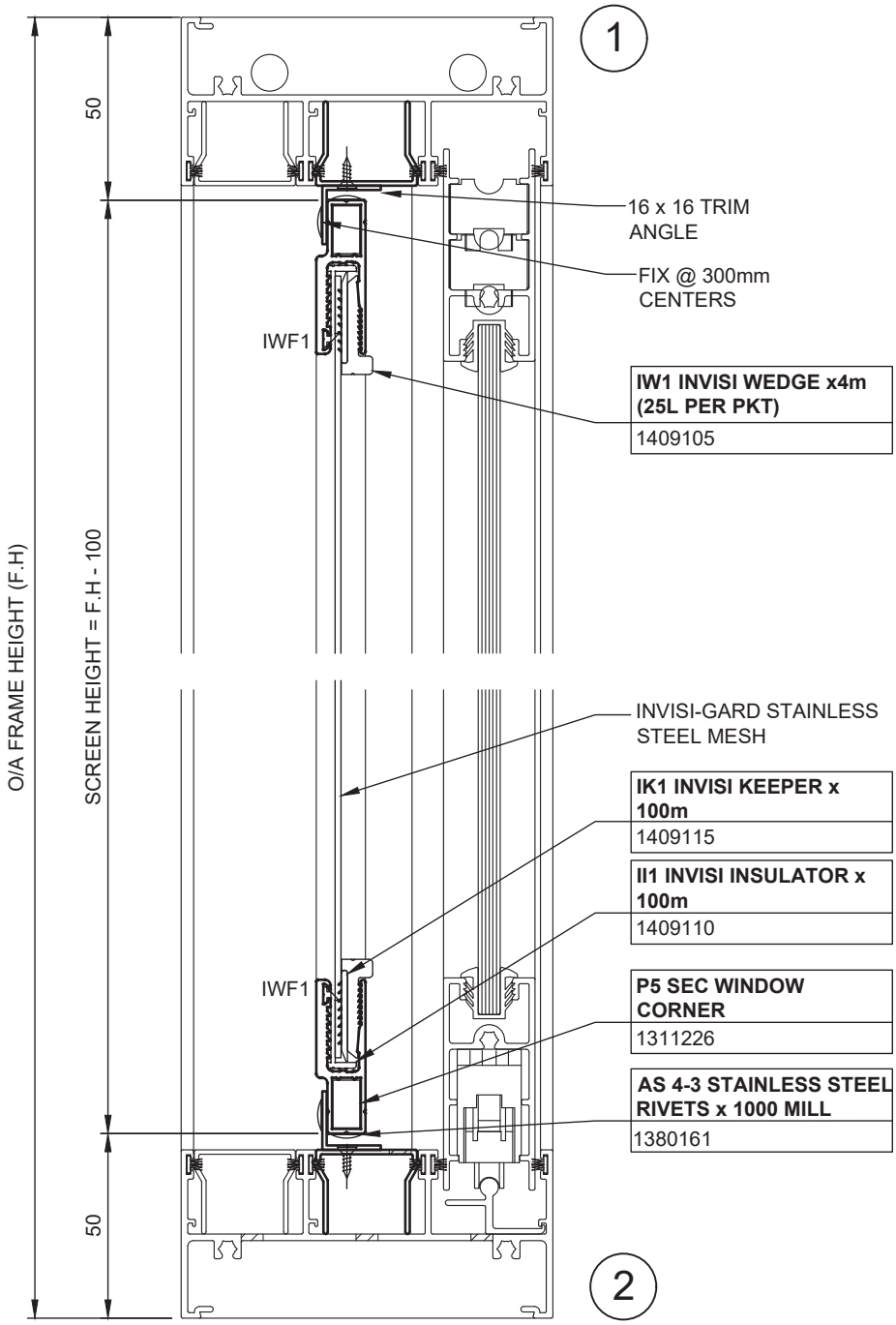
OXX Fly-Screen Vertical Detail



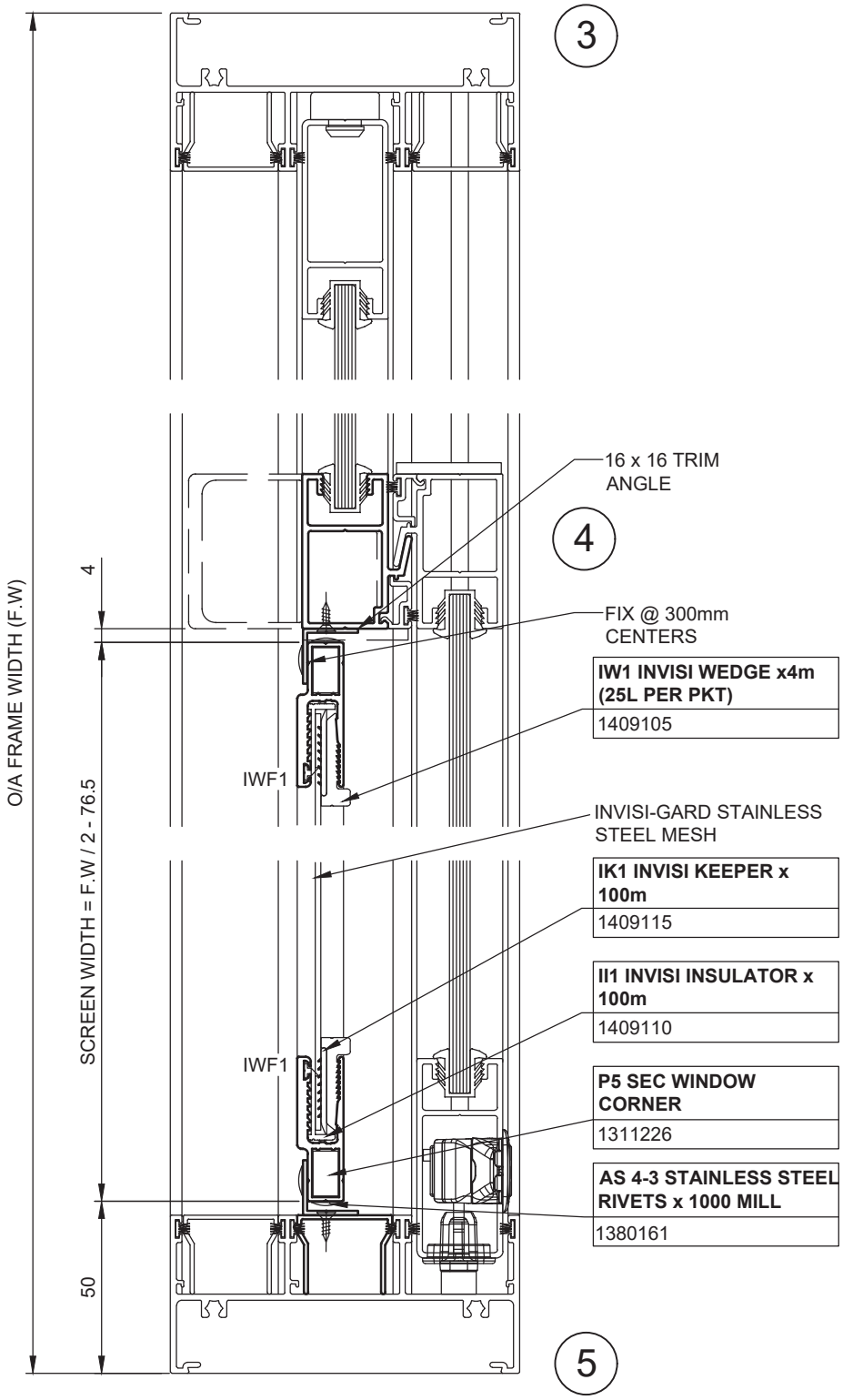
OXX Fly-Screen Horizontal Detail



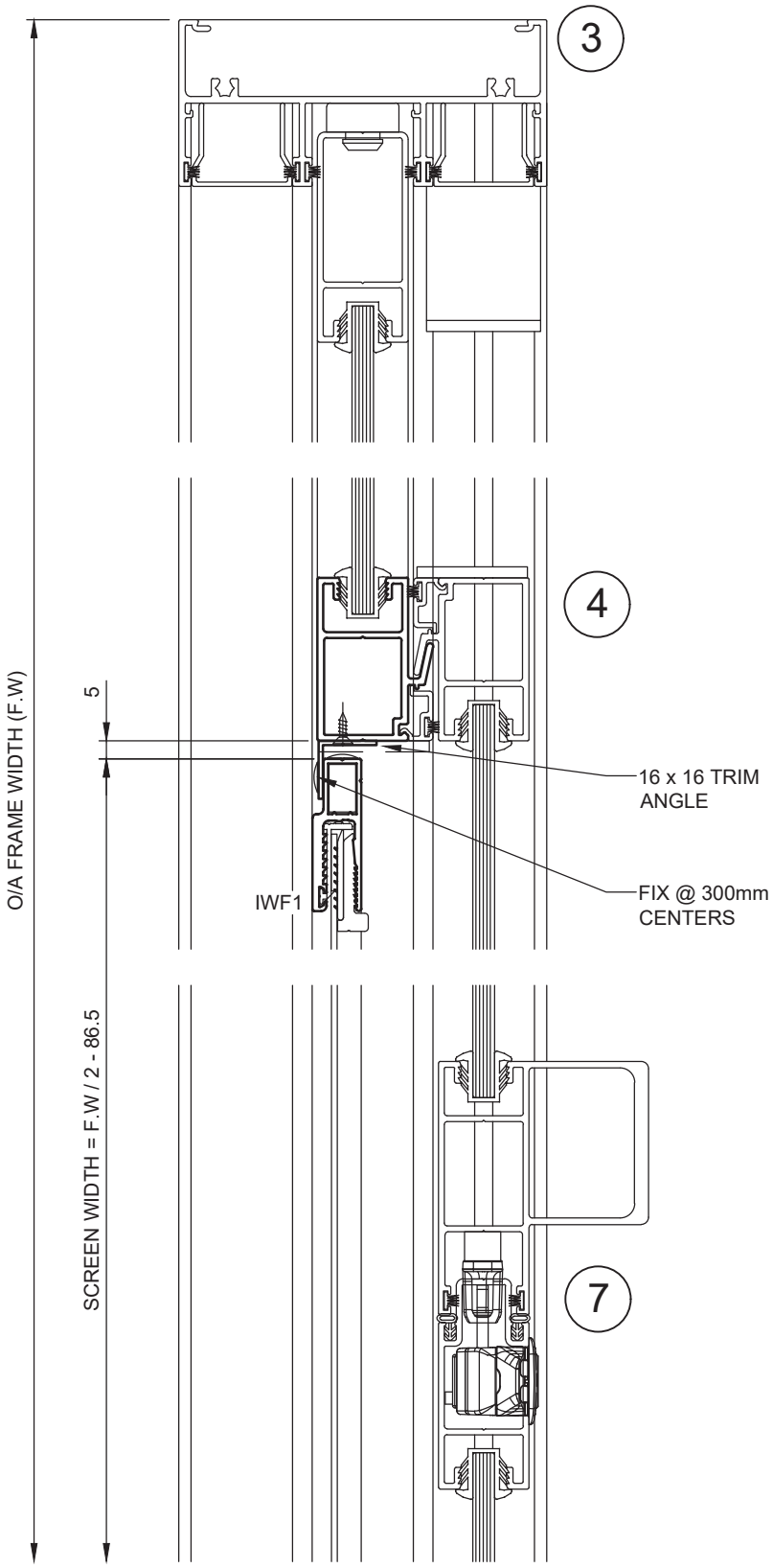
OX Invisi-Gard Vertical Detail



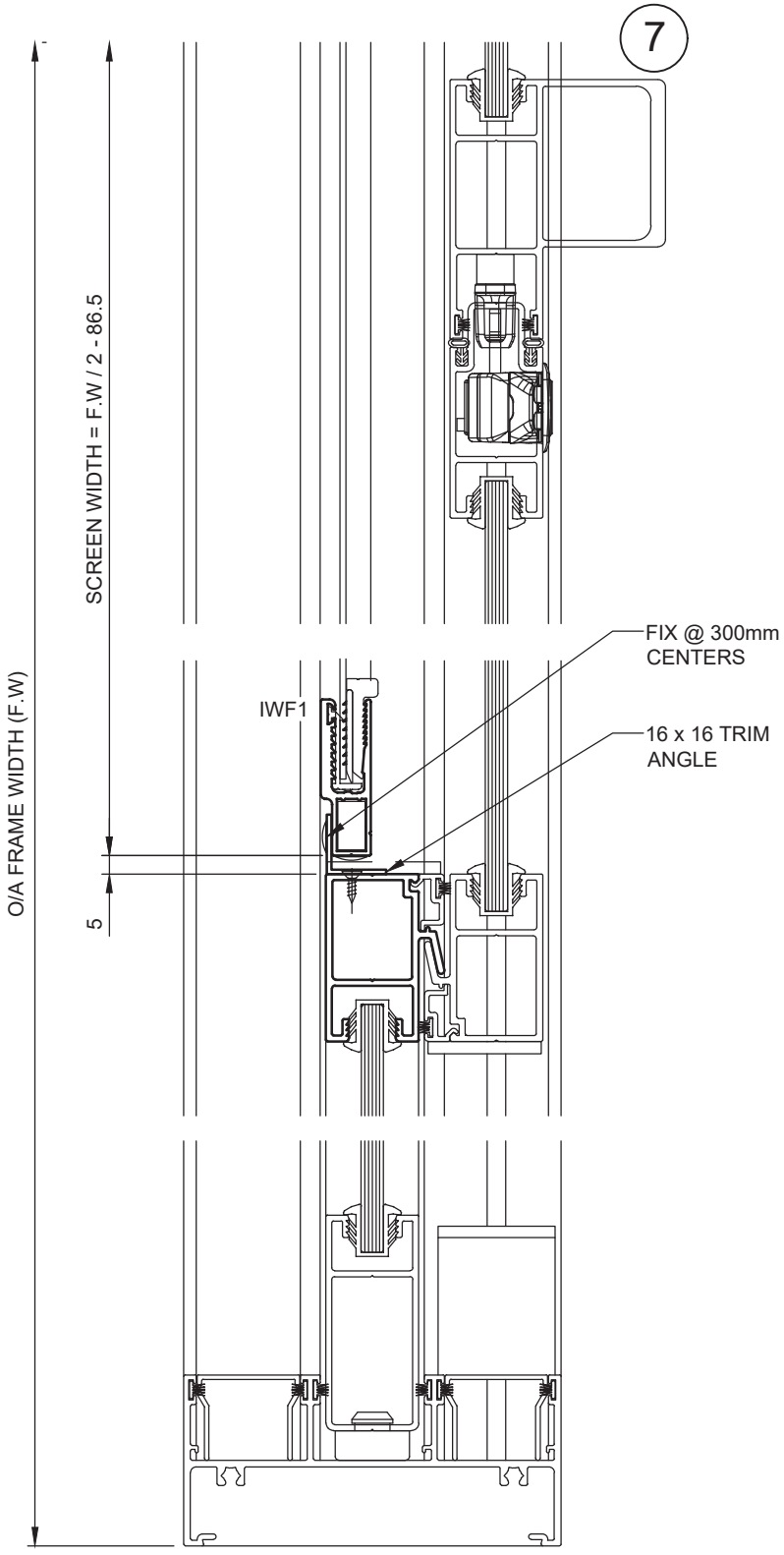
OX Invisi-Gard Horizontal Detail



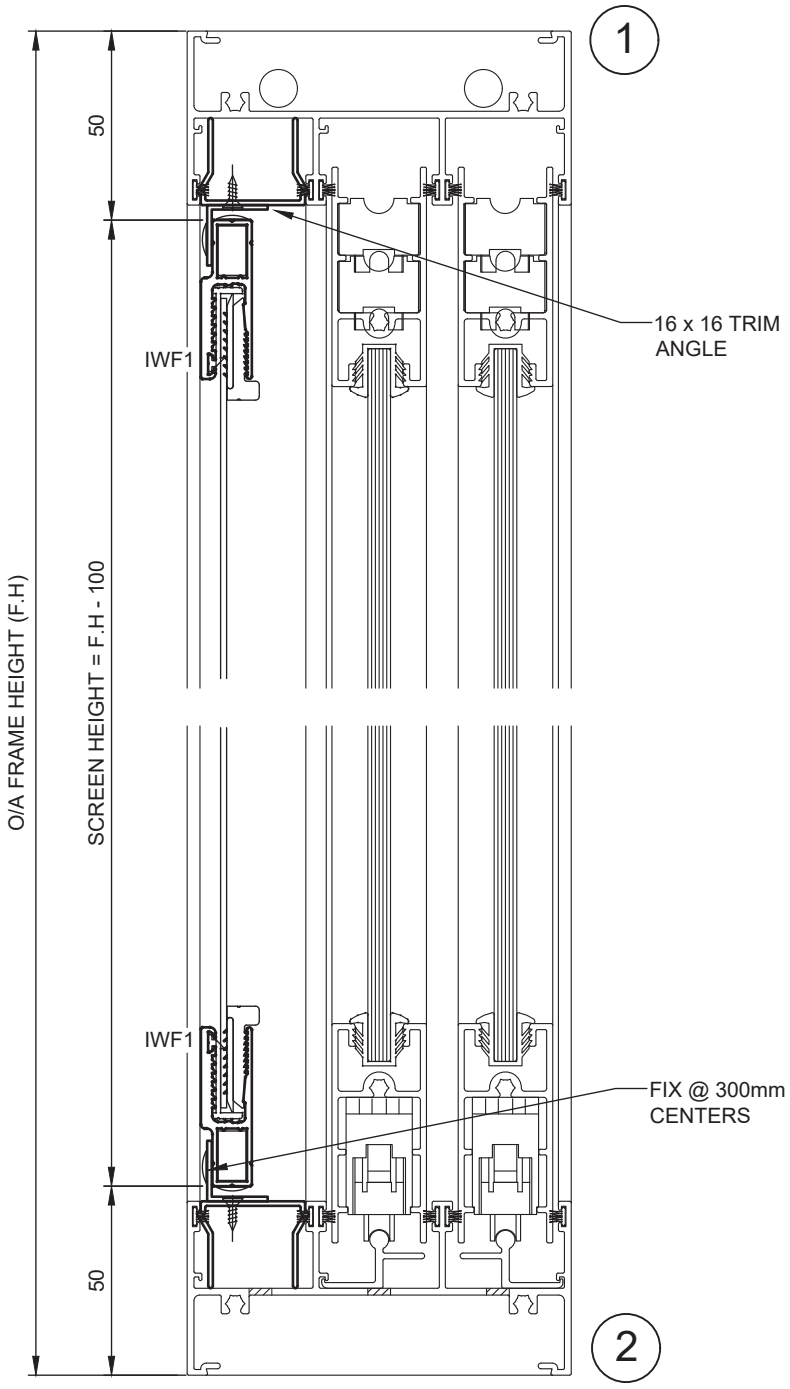
OXXO Invisi-Gard Horizontal Detail



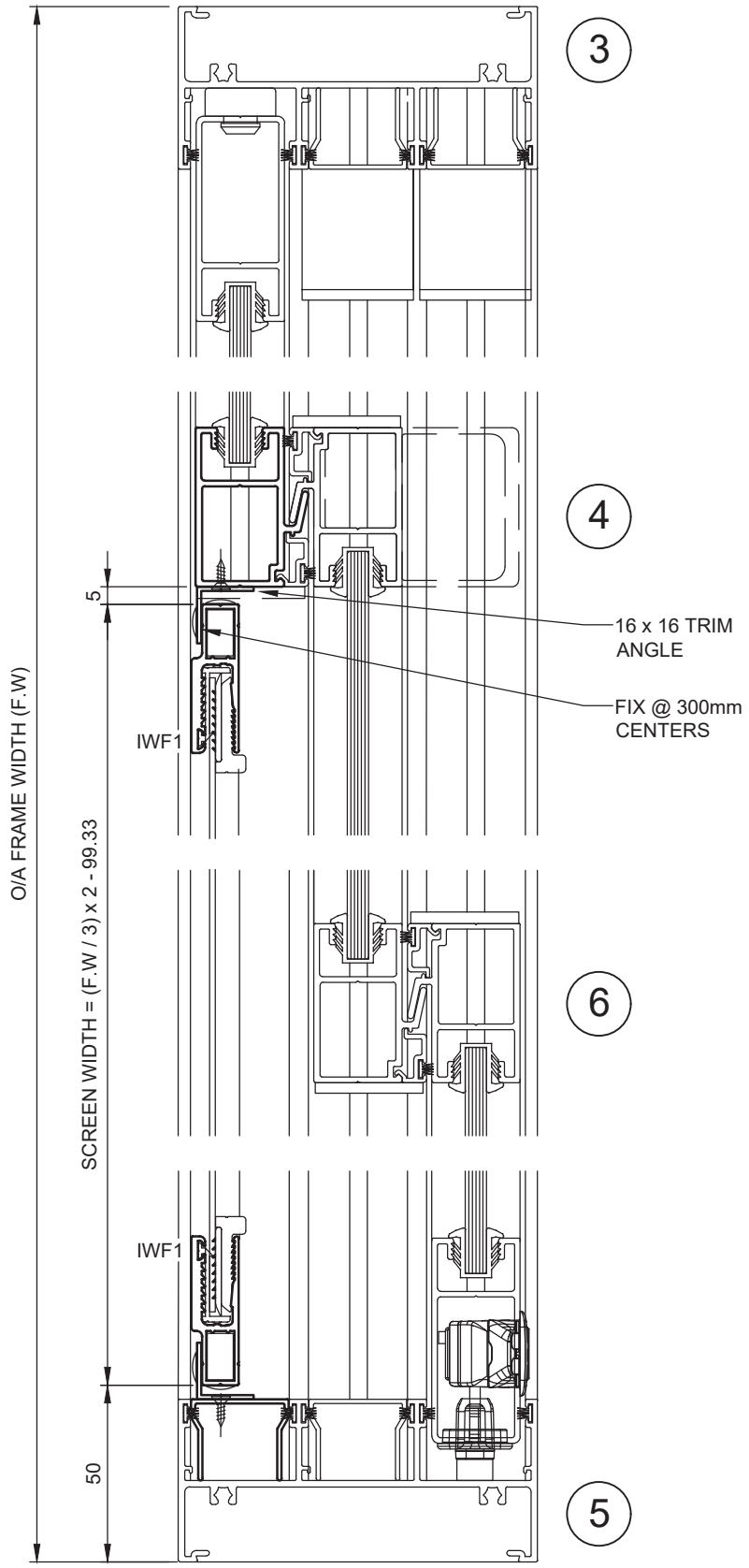
OXXO Invisi-Gard Horizontal Detail



OXX Invisi-Gard Vertical Detail

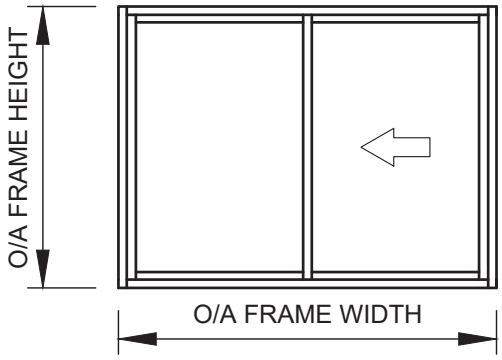


OXX Invisi-Gard Horizontal Detail



9. Cutting Formulas

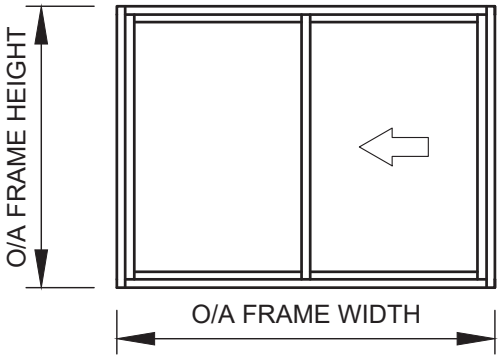
Vertical OX Slider - SG



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head	O/A Frame Width - 46	1
	APT2S	101mm Sill	O/A Frame Width - 46	1
	APT2	101mm Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	3
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	60mm	2
	APT5	Track Infill	O/A Frame Width / 2 - 48	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT9	SG Lock Stile	O/A Frame Height - 71	2
	APT10	Interlock Stile	O/A Frame Height - 71	1
	APT11	SG Med Interlock Stile	O/A Frame Height - 71	1
	APT15	SG Rail	O/A Frame Width / 2 - 113	4
Glass	HEIGHT		O/A Frame Height - 167	2
	WIDTH		O/A Frame Width / 2 - 94	

9. Cutting Formulas

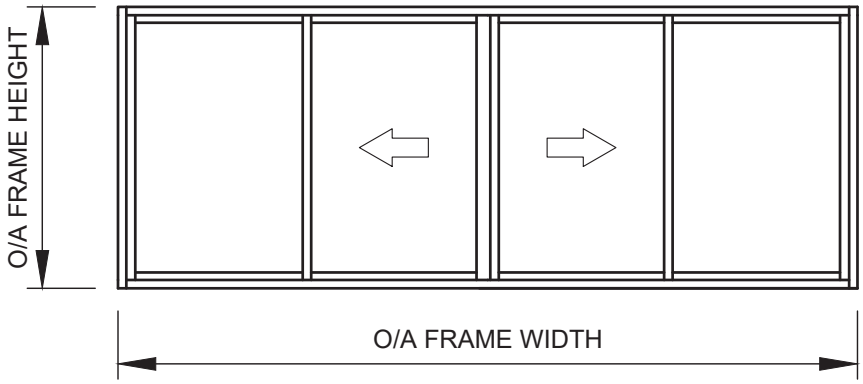
Vertical OX Slider - SG - ALT Jamb



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head	O/A Frame Width - 46	1
	APT2S	101mm Sill	O/A Frame Width - 46	1
	ME1	101mm Jamb	O/A Frame Height	2
	ME8	Pocket Filler	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	62mm	2
	APT5	Track Infill	O/A Frame Width / 2 - 48	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT9	SG Lock Stile	O/A Frame Height - 71	2
	APT10	Interlock Stile	O/A Frame Height - 71	1
	APT11	SG Med Interlock Stile	O/A Frame Height - 71	1
	APT15	SG Rail	O/A Frame Width / 2 - 136	4
Glass	HEIGHT		O/A Frame Height - 167	2
	WIDTH		O/A Frame Width / 2 - 118	

9. Cutting Formulas

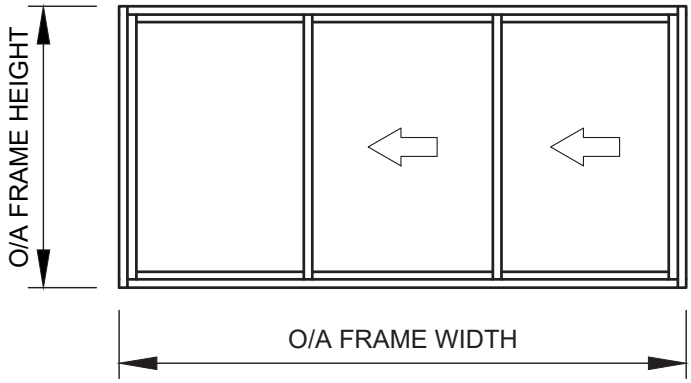
Vertical OXXO Slider - SG



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2S	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2	101mm Head / Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	4
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	60mm	4
	APT5	Track Infill	O/A Frame Width / 2 - 82.5	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT9	SG Lock Stile	O/A Frame Height - 71	2
	APT10	Interlock Stile	O/A Frame Height - 71	4
	APT15	SG Rail	O/A Frame Width / 4 - 96.5	8
	APT13	SG OXXO Stile	O/A Frame Height - 71	1
	APT31 or APT14	SG OXXO Medium Stile SG OXXO Heavy Stile	O/A Frame Height - 71	1
Glass	HEIGHT		O/A Frame Height - 167	4
	WIDTH		O/A Frame Width / 4 - 76.5	

9. Cutting Formulas

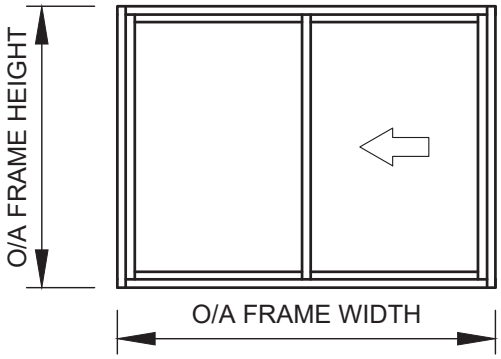
Vertical OXX Slider - SG

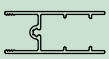


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2S	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2	101mm Head / Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	4
	APT5	Track Infill	(O/A Frame Width / 3 - 90.16) x 2 + 110.5	2
	APT5	Track Infill	(O/A Frame Width / 3) + 65.5	2
	APT5	Track Infill	60mm	4
	APT29	Removable Track	O/A Frame Width - 158	1
	APT29	Removable Track	O/A Frame Width - 158	1
	APT9	SG Lock Stile	O/A Frame Height - 71	2
	APT10	Interlock Stile	O/A Frame Height - 71	3
	APT11	SG Med Interlock Stile	O/A Frame Height - 71	1
	APT15	SG Rail	O/A Frame Width / 3 - 90	6
Glass	HEIGHT		O/A Frame Height - 167	3
	WIDTH		O/A Frame Width / 3 - 70	

9. Cutting Formulas

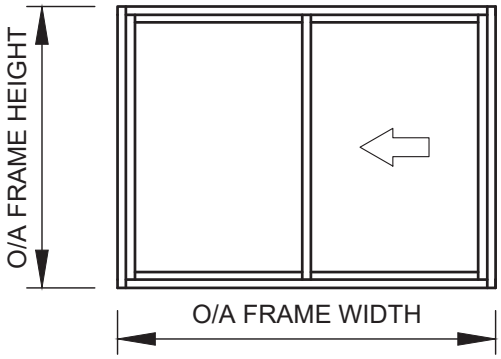
Vertical OX Slider - DG

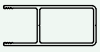
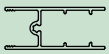


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2S	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2	101mm Head / Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	3
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	60mm	2
	APT5	Track Infill	O/A Frame Width / 2 - 48	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT19	DG Lock Stile	O/A Frame Height - 71	2
	APT20	DG Interlock Stile	O/A Frame Height - 71	1
	APT21	DG Med Interlock Stile	O/A Frame Height - 71	1
	APT25	DG Rail	O/A Frame Width / 2 - 113	4
Glass	HEIGHT		O/A Frame Height - 165	2
	WIDTH		O/A Frame Width / 2 - 90	

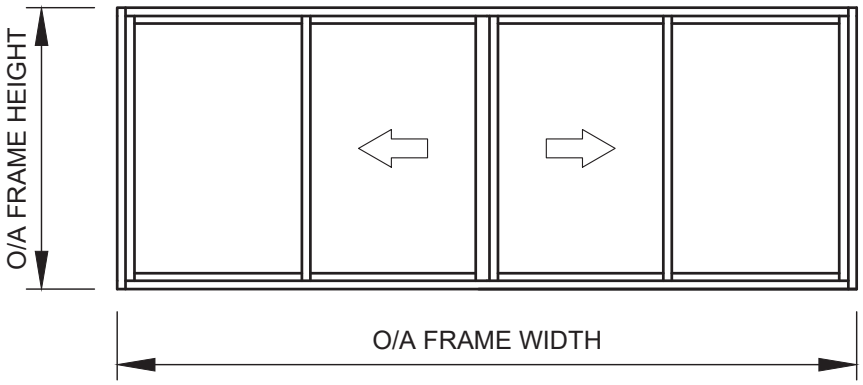
9. Cutting Formulas

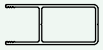
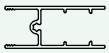
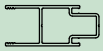
Vertical OX Slider - DG - ALT Jamb



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head	O/A Frame Width - 46	1
	APT2S	101mm Sill	O/A Frame Width - 46	1
	ME1	101mm Jamb	O/A Frame Height	2
	ME8	Pocket Filler	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	60mm	2
	APT5	Track Infill	O/A Frame Width / 2 - 48	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT19	DG Lock Stile	O/A Frame Height - 71	2
	APT20	DG Interlock Stile	O/A Frame Height - 71	1
	APT21	DG Med Interlock Stile	O/A Frame Height - 71	1
	APT25	DG Rail	O/A Frame Width / 2 - 113	4
Glass	HEIGHT		O/A Frame Height - 165	2
	WIDTH		O/A Frame Width / 2 - 114	

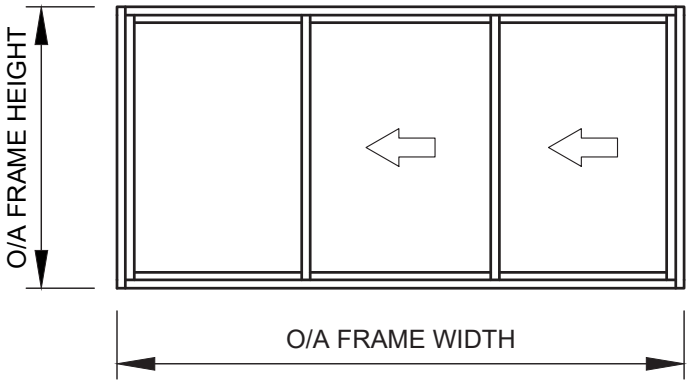
Vertical OXXO Slider - DG

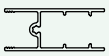


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2S	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2	101mm Head / Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	4
	APT5	Track Infill	O/A Frame Width - 46	2
	APT5	Track Infill	60mm	4
	APT5	Track Infill	O/A Frame Width / 2 - 82.5	2
	APT29	Removable Track	O/A Frame Width - 158	1
	APT19	DG Lock Stile	O/A Frame Height - 71	2
	APT20	DG Interlock Stile	O/A Frame Height - 71	4
	APT25	DG Rail	O/A Frame Width / 4 - 96.5	8
	APT23	DG OXXO Stile	O/A Frame Height - 71	1
	APT32 or APT24	DG OXXO Medium Stile DG OXXO Heavy Stile	O/A Frame Height - 71	1
Glass	HEIGHT		O/A Frame Height - 165	4
	WIDTH		O/A Frame Width / 4 - 70.5	

9. Cutting Formulas

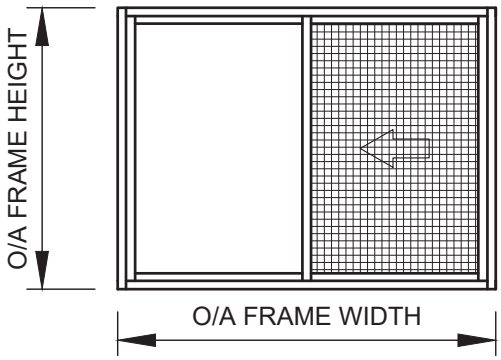
Vertical OXX Slider - DG



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT2	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2S	101mm Head / Jamb	O/A Frame Width - 46	1
	APT2	101mm Head / Jamb	O/A Frame Height	2
	APT5	Track Infill	O/A Frame Height - 92	4
	APT5	Track Infill	(O/A Frame Width / 3 - 90.16) x 2 + 110.5	2
	APT5	Track Infill	(O/A Frame Width / 3) + 65.5	2
	APT5	Track Infill	60mm	4
	APT29	Removable Track	O/A Frame Width - 158	1
	APT29	Removable Track	O/A Frame Width - 158	1
	APT19	DG Lock Stile	O/A Frame Height - 71	2
	APT20	DG Interlock Stile	O/A Frame Height - 71	3
	APT21	DG Med Interlock Stile	O/A Frame Height - 71	1
	APT25	DG Rail	O/A Frame Width / 3 - 90	6
Glass	HEIGHT		O/A Frame Height - 165	3
	WIDTH		O/A Frame Width / 3 - 94	

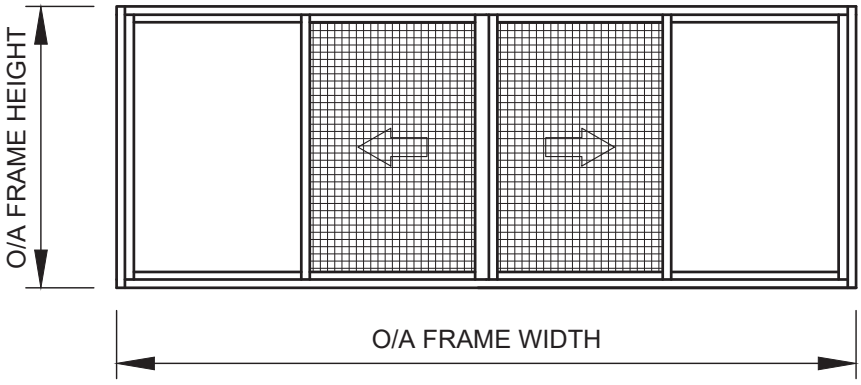
9. Cutting Formulas

OX Fly Screen



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT112	Screen Infill	O/A Frame Width / 2 - 67.3	2
	L3455	Single Top Track	O/A Frame Height - 94.5	1
	L3454	Single Bottom Track	O/A Frame Height - 94.5	1
	FS2	25 x 11mm Extruded Flyscreen	O/A Frame Width / 2 - 84.5	2
	FS2	25 x 11mm Extruded Flyscreen	O/A Frame Height - 97	2

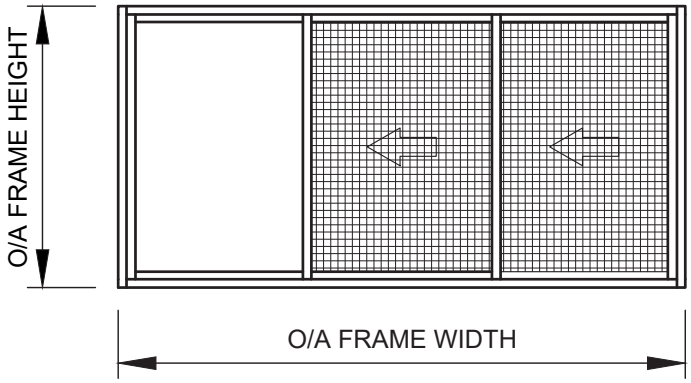
OXXO Fly Screen



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	APT112	Screen Infill	O/A Frame Width / 2 - 75.5	2
	L3455	Single Top Track	O/A Frame Height - 95.5	1
	L3454	Single Bottom Track	O/A Frame Height - 95.5	1
	FS2	25 x 11mm Extruded Flyscreen	O/A Frame Width / 2 - 91.5	2
	FS2	25 x 11mm Extruded Flyscreen	O/A Frame Height - 97	2

9. Cutting Formulas

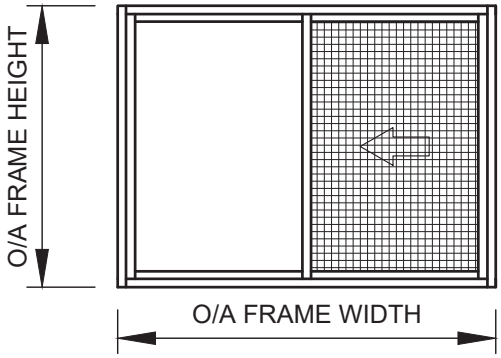
OXX Fly Screen



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	(O/A Frame Width / 3) x 2 - 90.3	2
	L3455	Single Top Track	O/A Frame Height - 94.5	1
	L3454	Single Bottom Track	O/A Frame Height - 94.5	1
	FS2	25 x 11mm Extruded Flyscreen	(O/A Frame Width / 3) x 2 - 102.8	2
	FS2	25 x 11mm Extruded Flyscreen	O/A Frame Height - 97	2

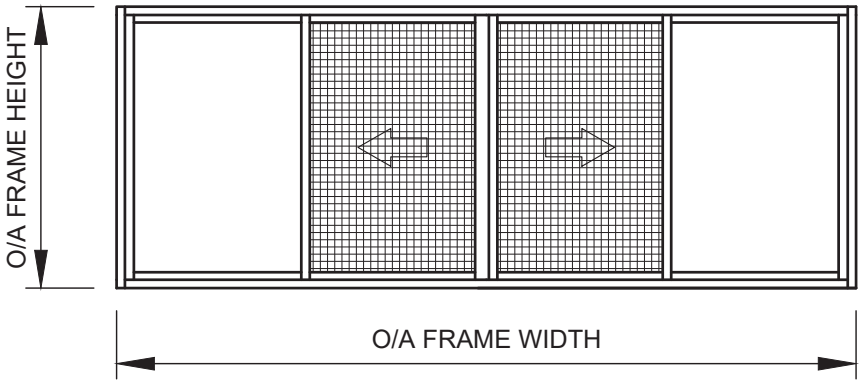
9. Cutting Formulas

OX Invisi Screen Details



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	O/A Frame Height - 94.5	2
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	O/A Frame Width / 2 - 67.5	2
	IWF1	Invisi Window Frame 11mm	O/A Frame Height - 100	2
	IWF1	Invisi Window Frame 11mm	O/A Frame Width / 2 - 76.5	2

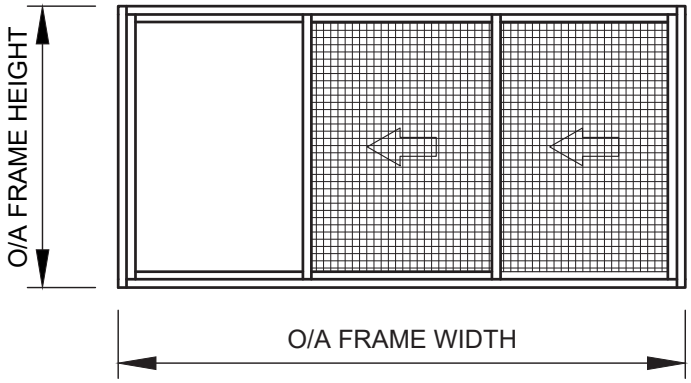
OXXO Invisi Screen Details

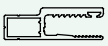
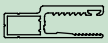


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	O/A Frame Height - 94.5	2
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	O/A Frame Width / 2 - 75.5	2
	IWF1	Invisi Window Frame 11mm	O/A Frame Height - 100	2
	IWF1	Invisi Window Frame 11mm	O/A Frame Width / 2 - 86.5	2

9. Cutting Formulas

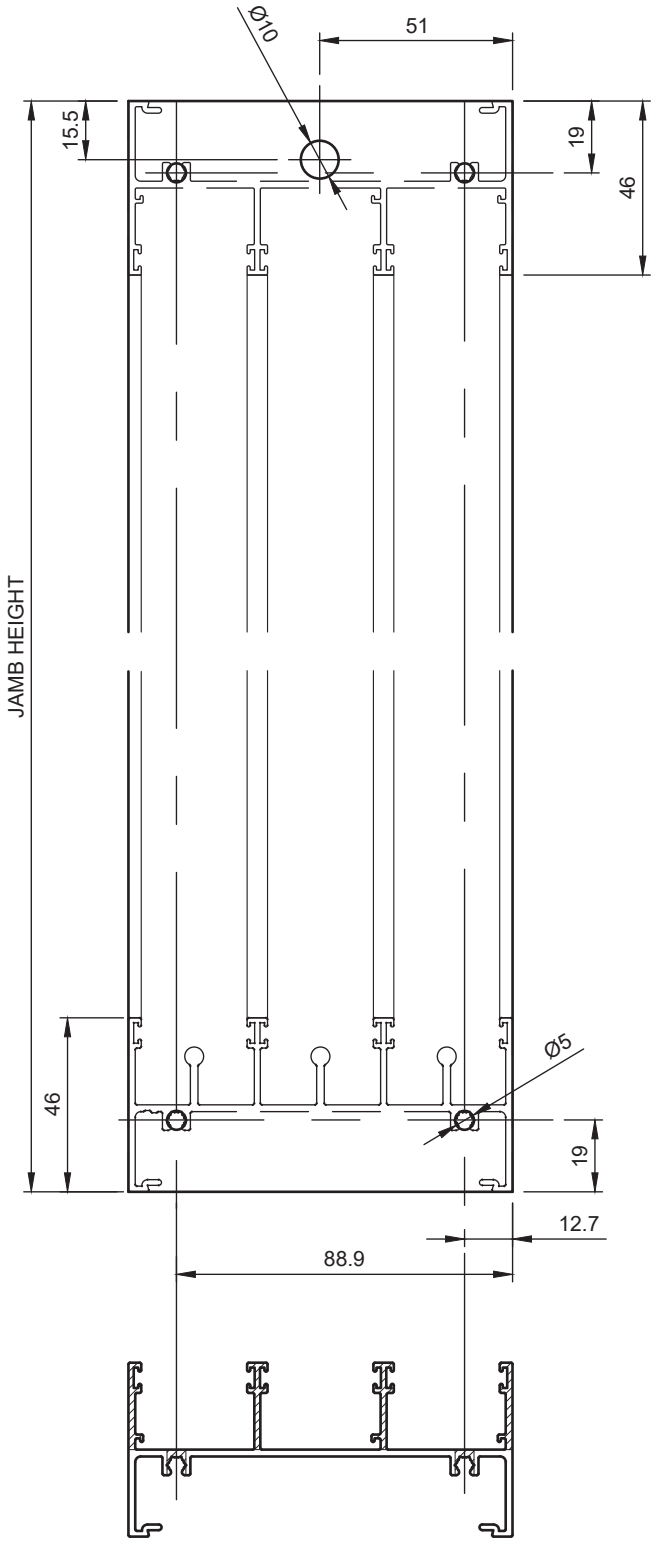
OXX Invisi Screen Details



PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	O/A Frame Height - 94.5	2
	TRIM ANGLE	Trim Angle 16 x 16mm (1030493)	(O/A Frame Width / 3) x 2 - 90.3	2
	IWF1	Invisi Window Frame 11mm	O/A Frame Height - 100	2
	IWF1	Invisi Window Frame 11mm	(O/A Frame Width / 3) x 2 - 99.33	2

10. Manufacturing Details

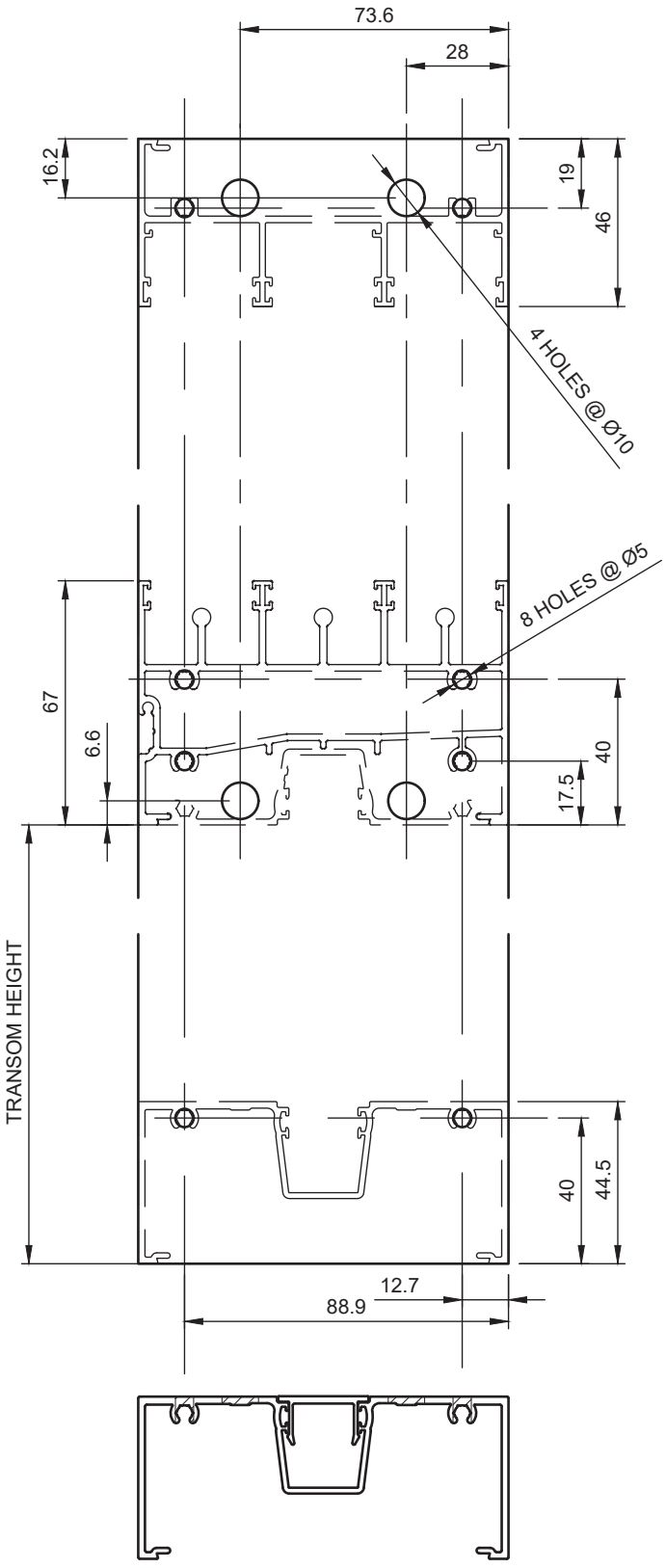
101.6mm Jamb with STD Sill



APT2 (shown)

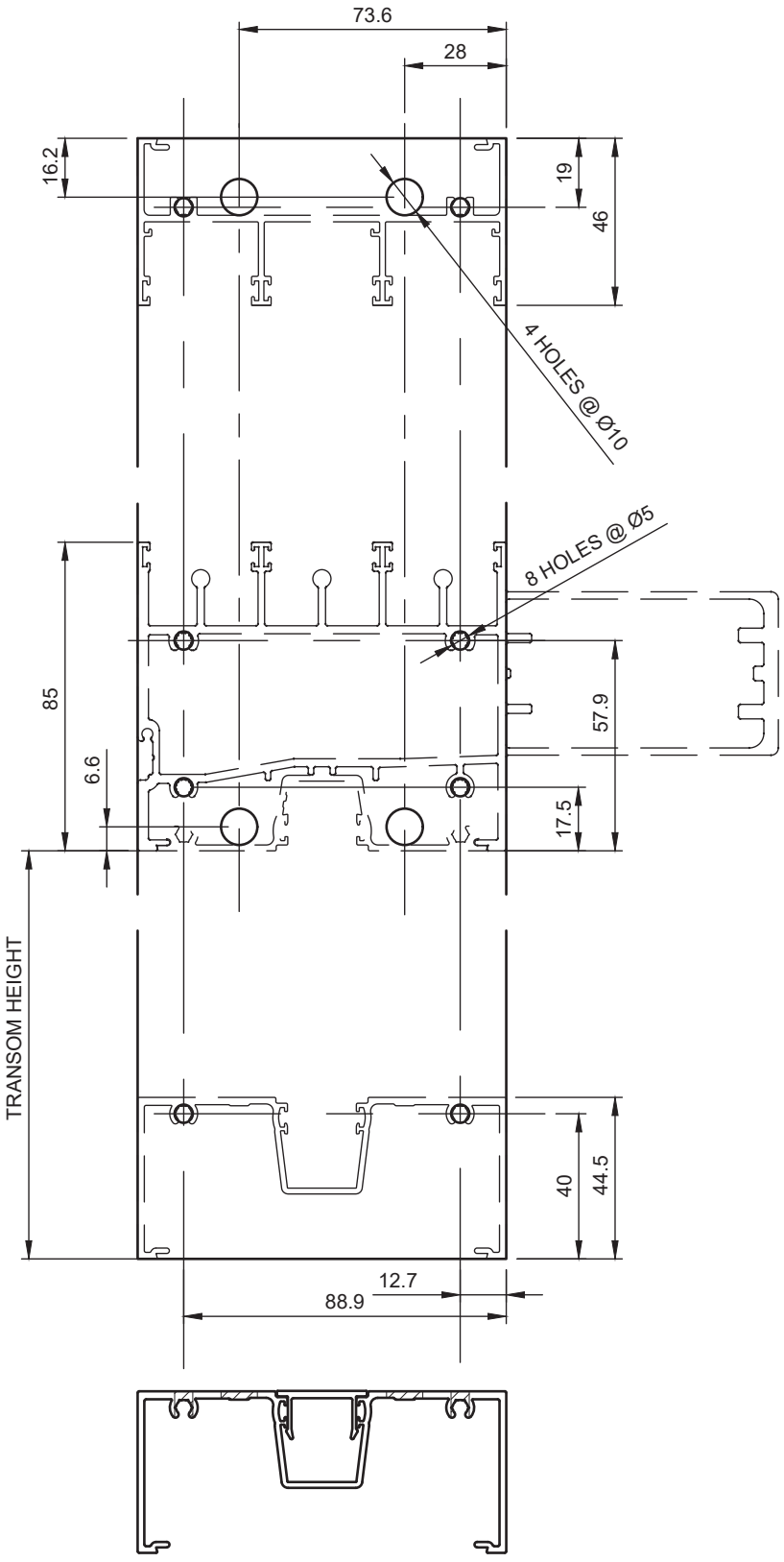
10. Manufacturing Details

Standard Transom Preparation



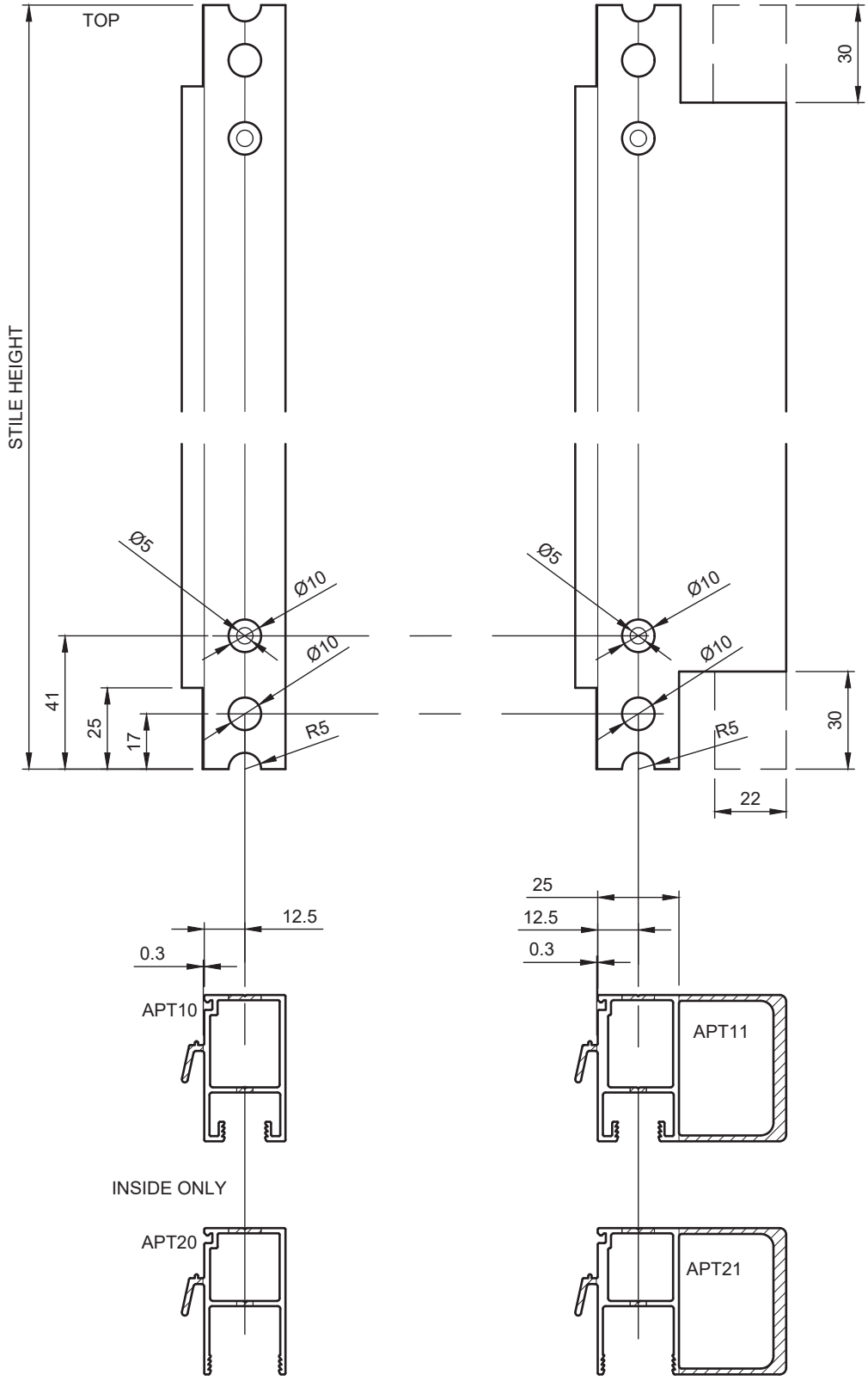
ME1 (shown)

Heavy Duty Transom Preparation



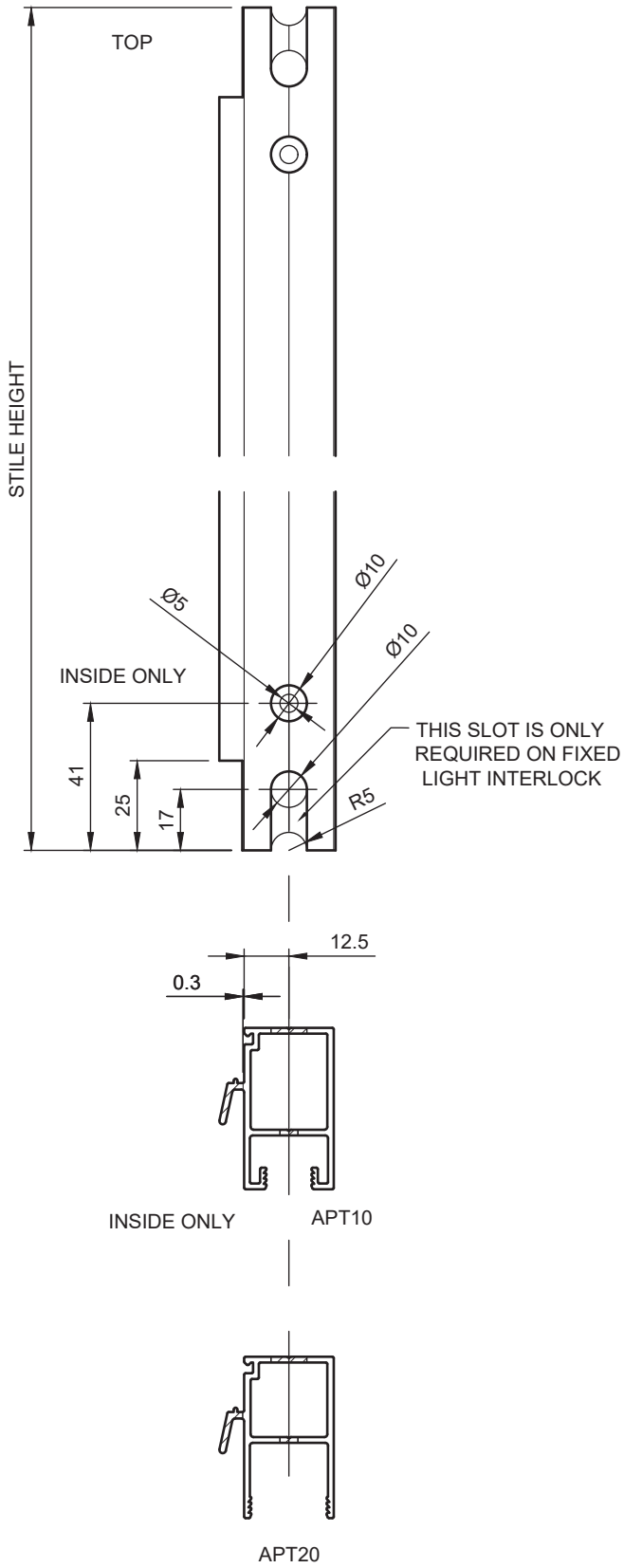
ME1 (shown)

Interlock Stile Preparation

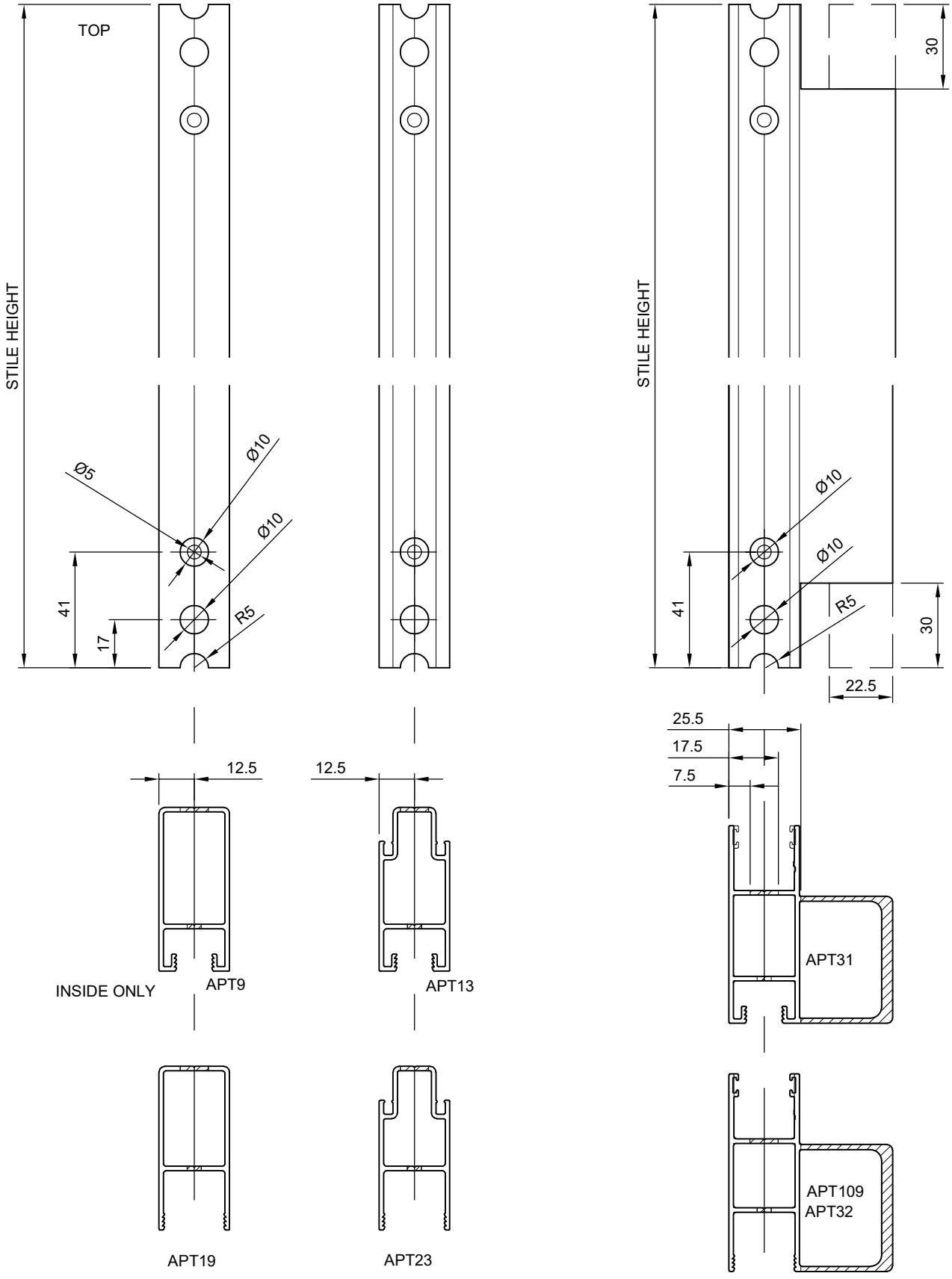


10. Manufacturing Details

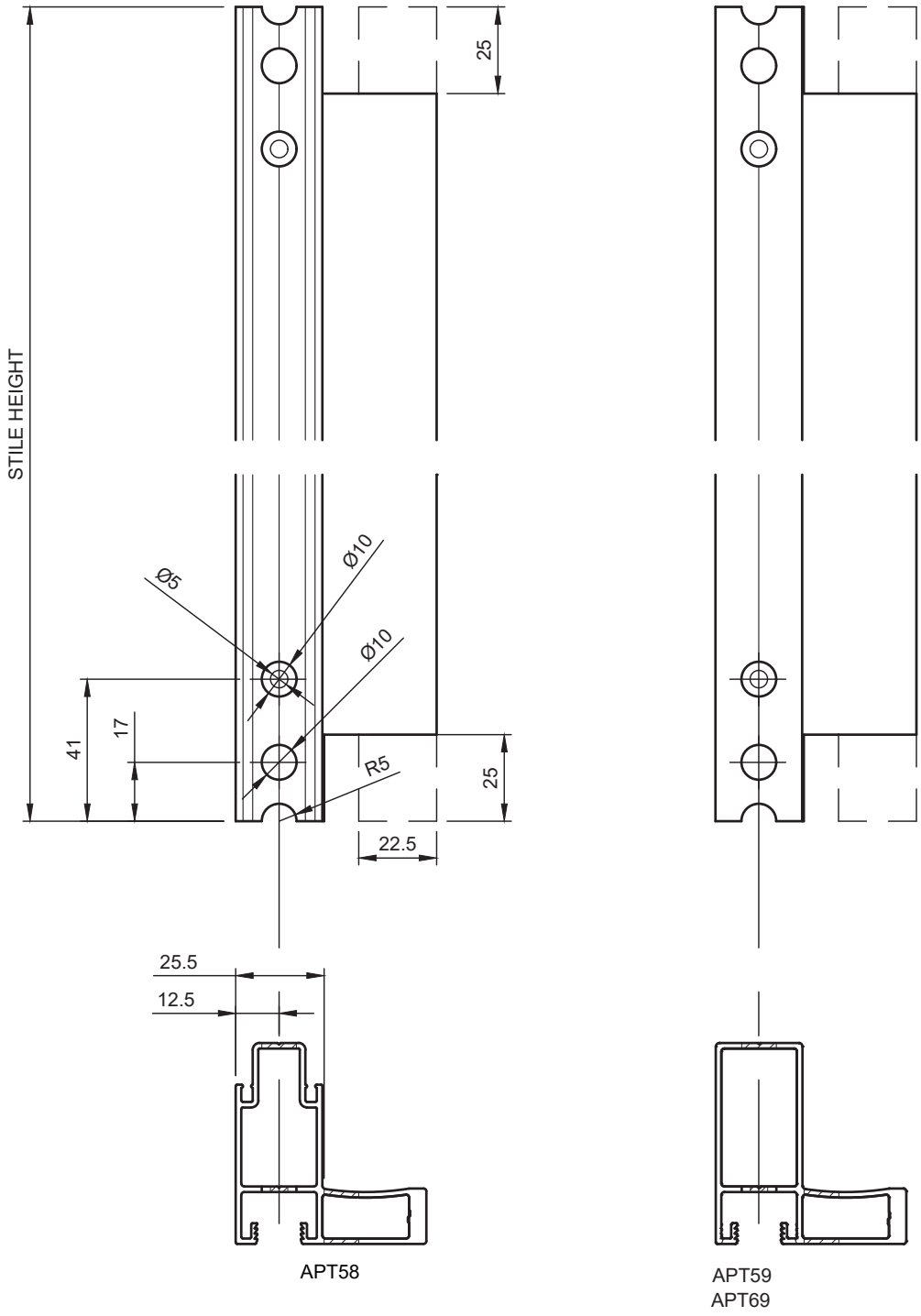
Fixed Interlock Stile Preparation



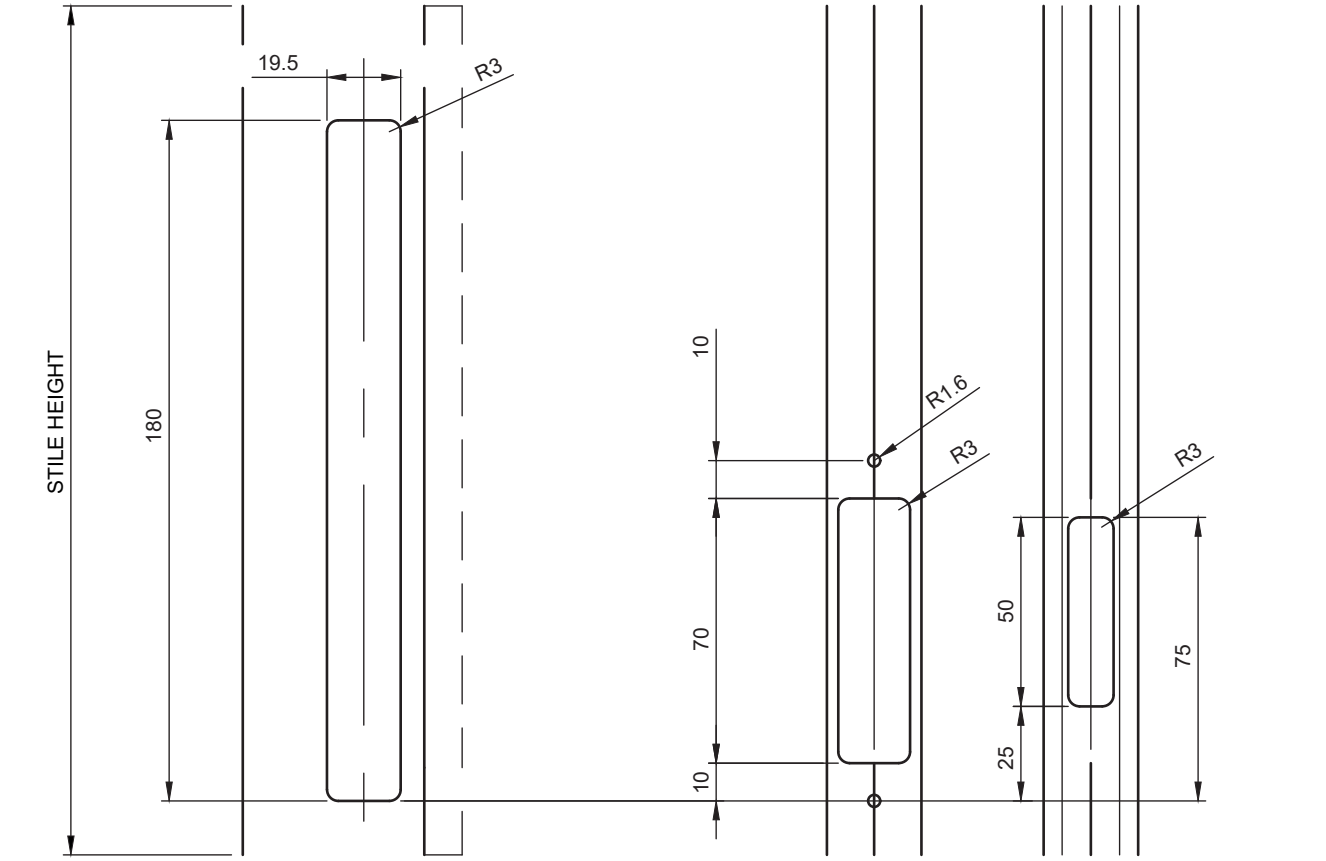
Lock and Meeting Stile Preparation

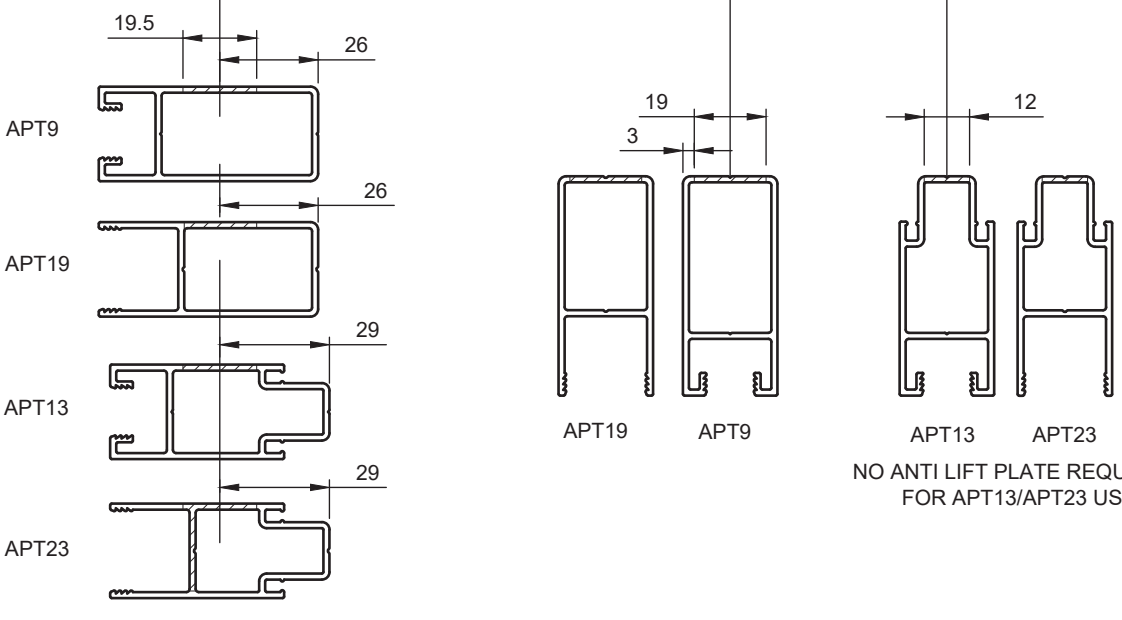


HD Lock Stile & OXXO Stile Preparations Std Sill



Lock Stile Preparation For Pearl Series Lock

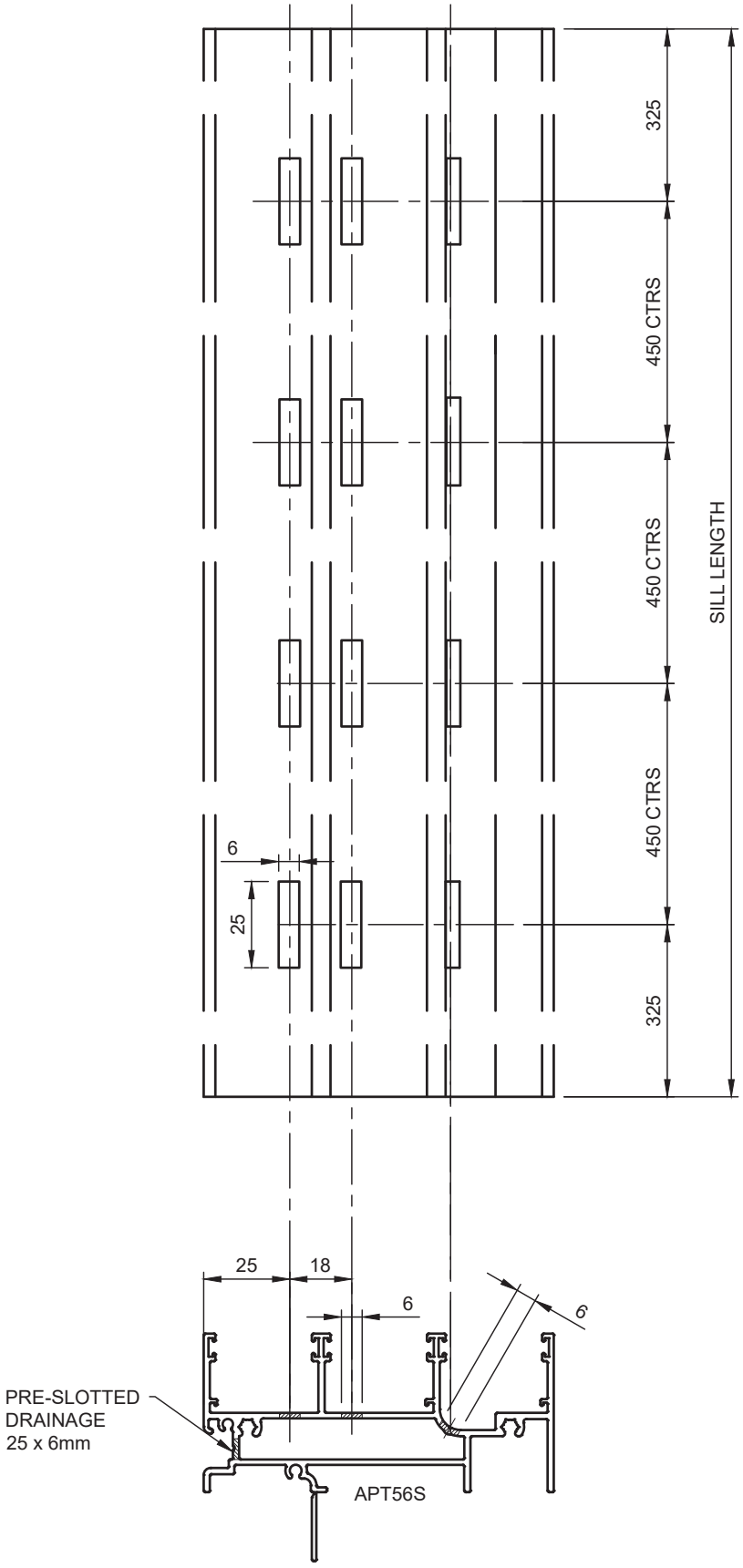




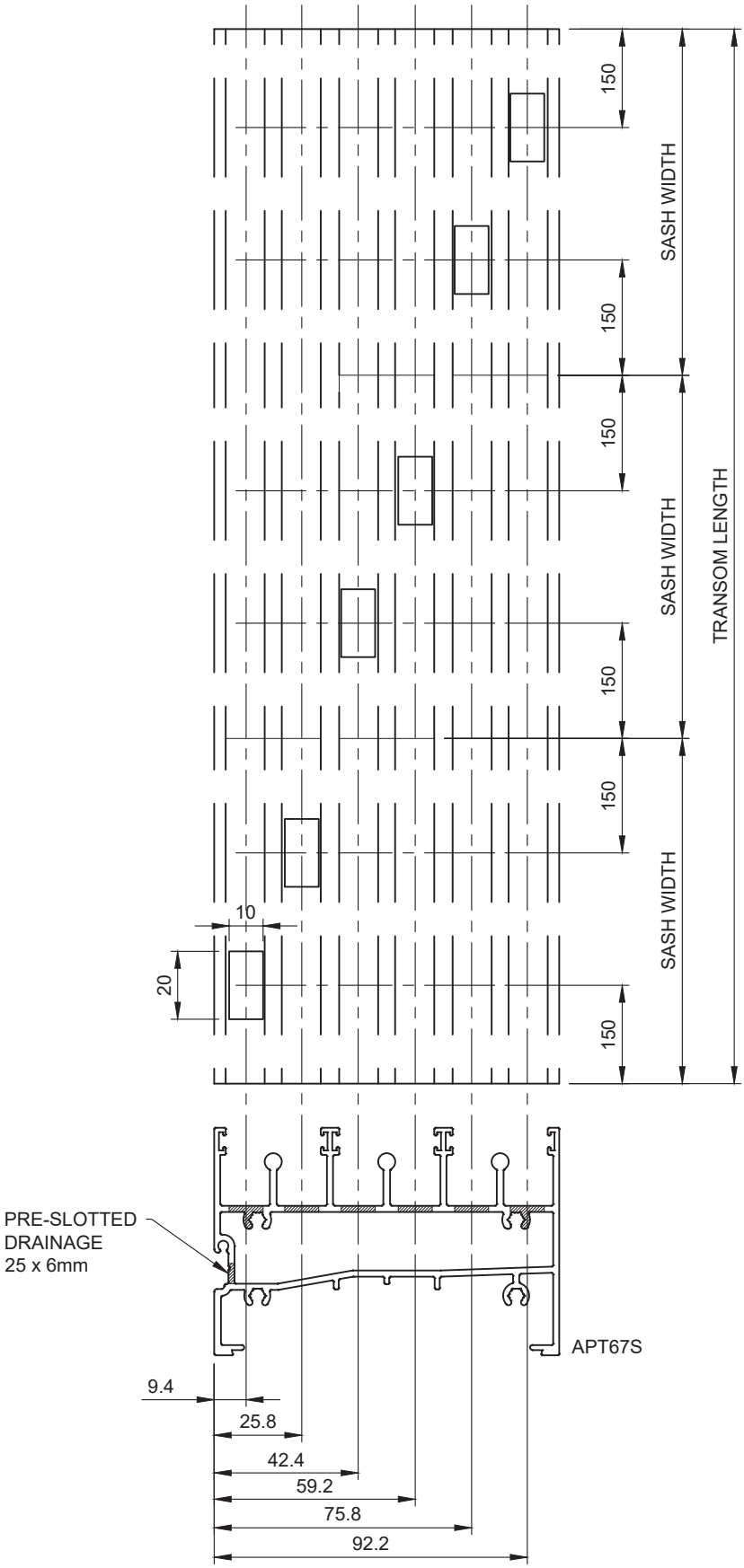
NO ANTI LIFT PLATE REQUIRED
FOR APT13/APT23 USE

REFER TO HARDWARE MANUFACTURES FITTING INSTRUCTIONS

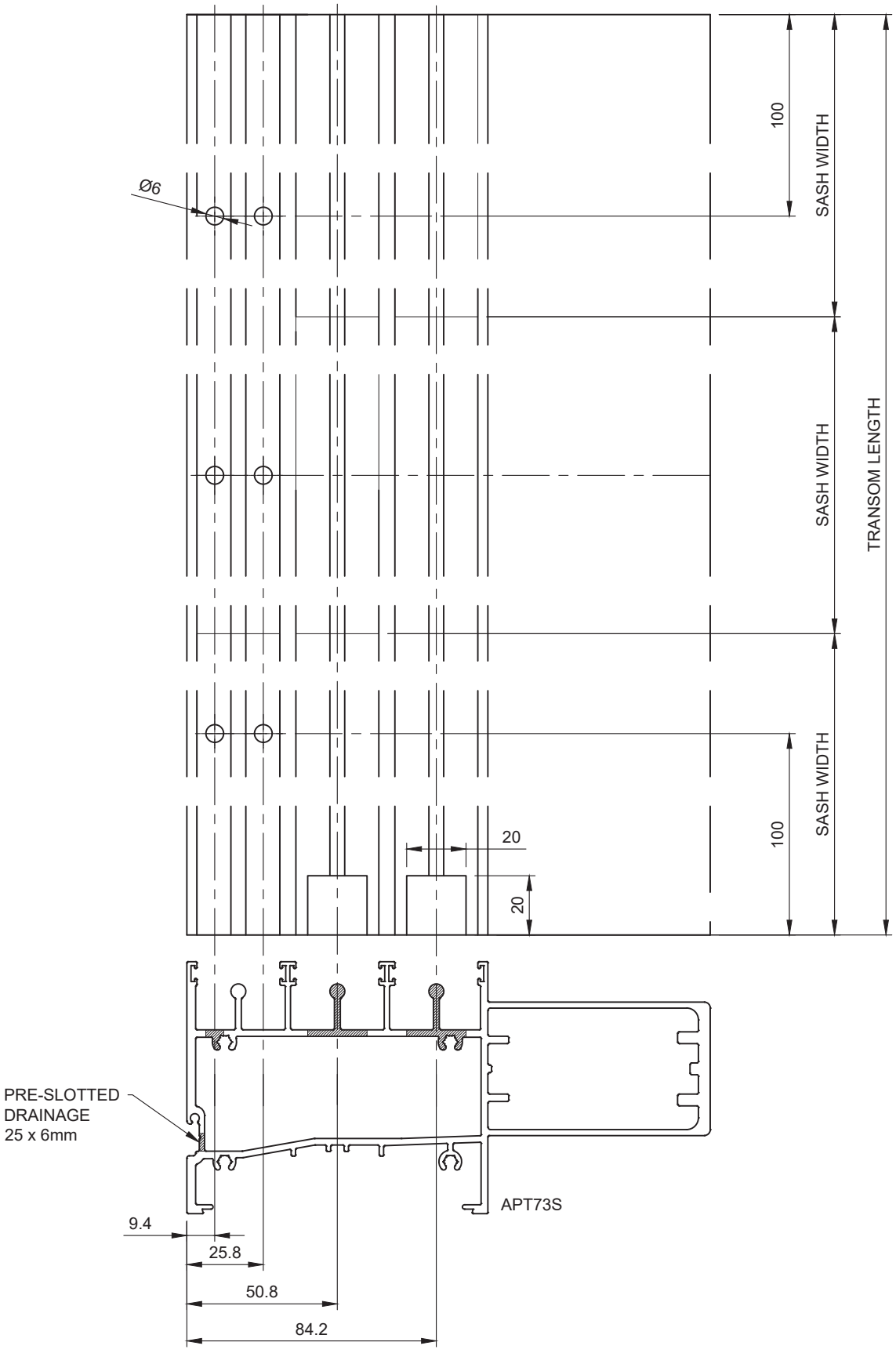
APT56S Sill Preparation



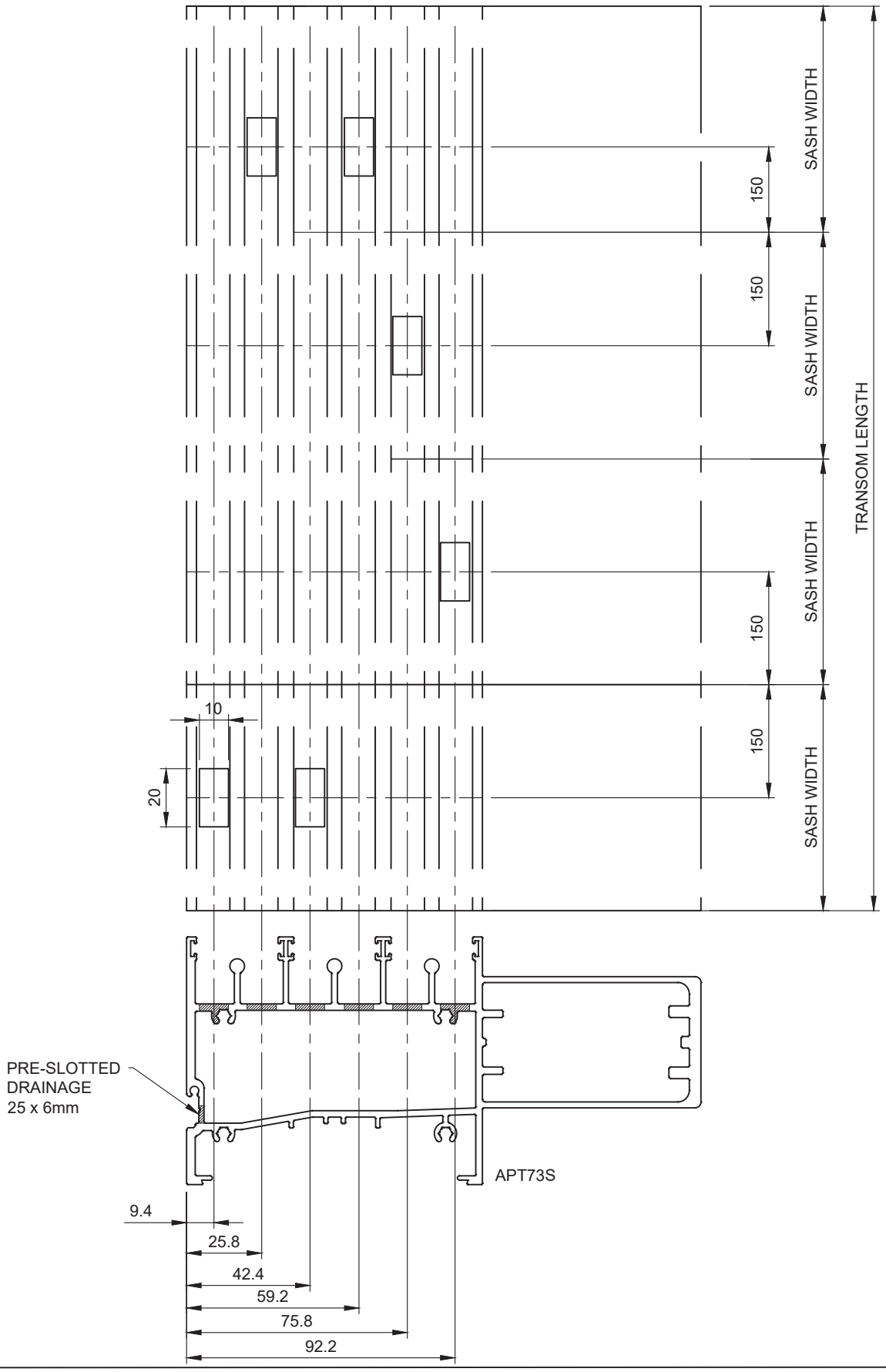
APT67S Transom Preparation for Internal Slide XXO



APT73S HD Transom Preparation for Internal Slide XXO

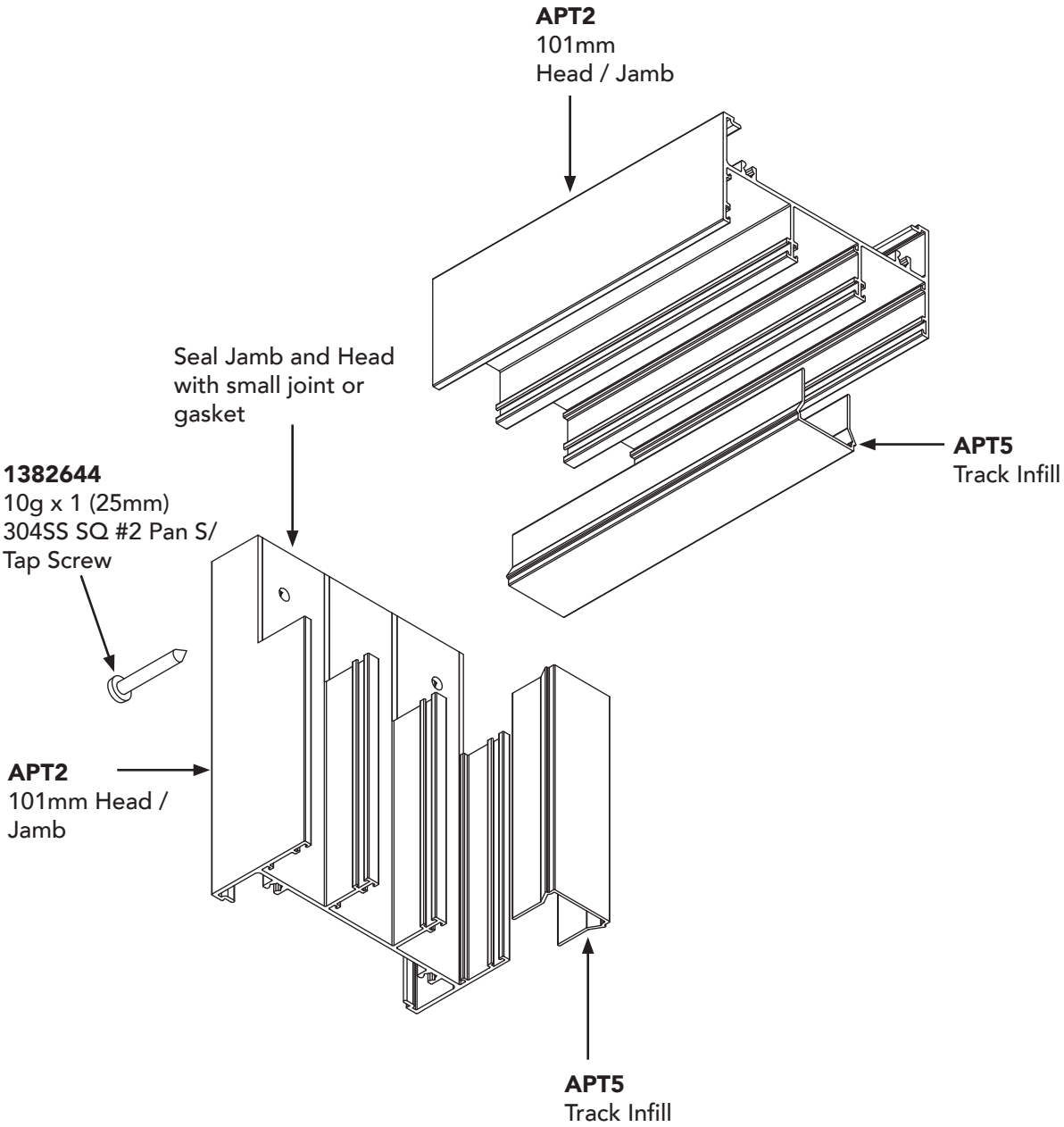


APT73S HD Transom Preparation for Internal Slide OXXO

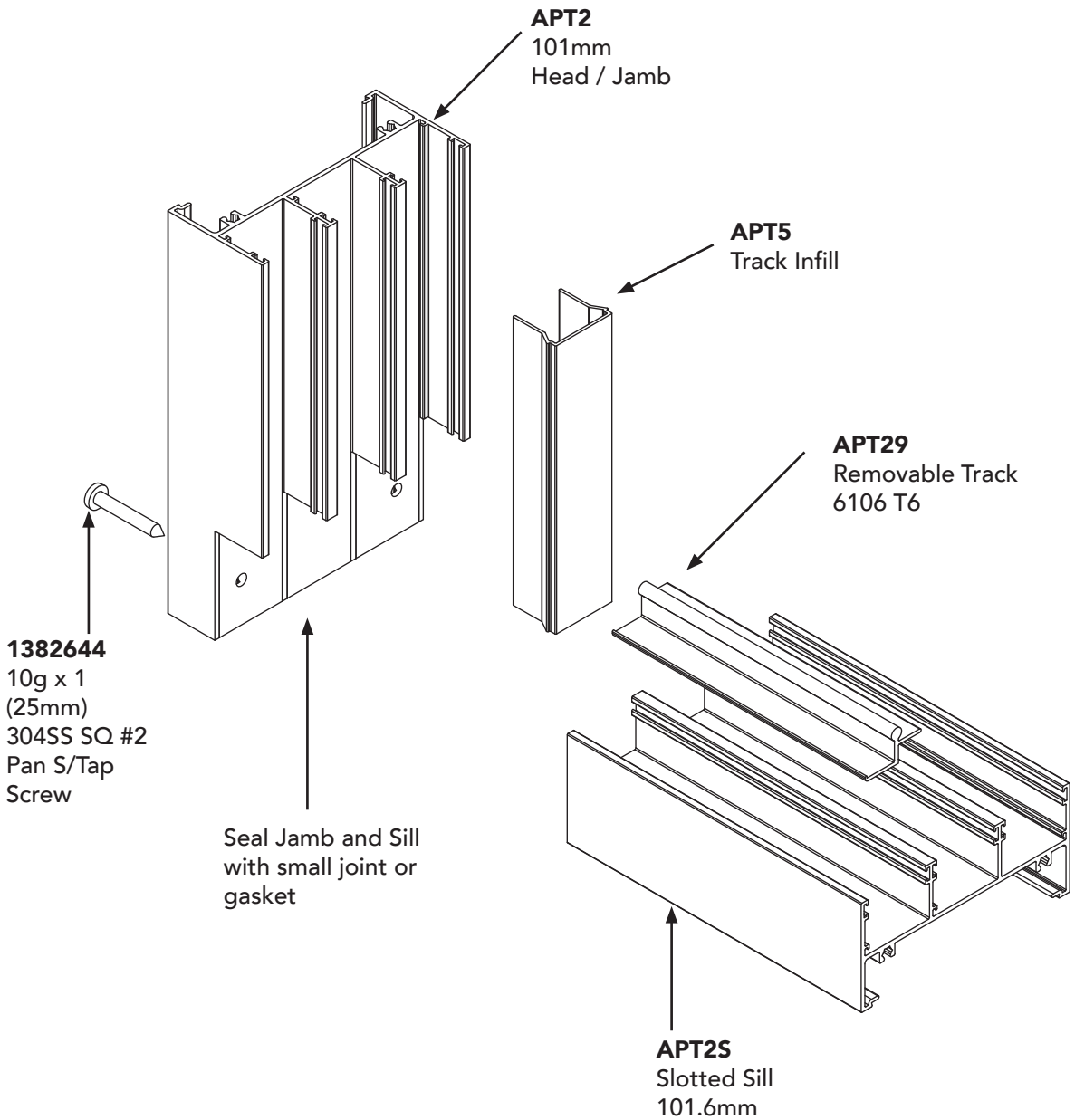


11. Assembly Details

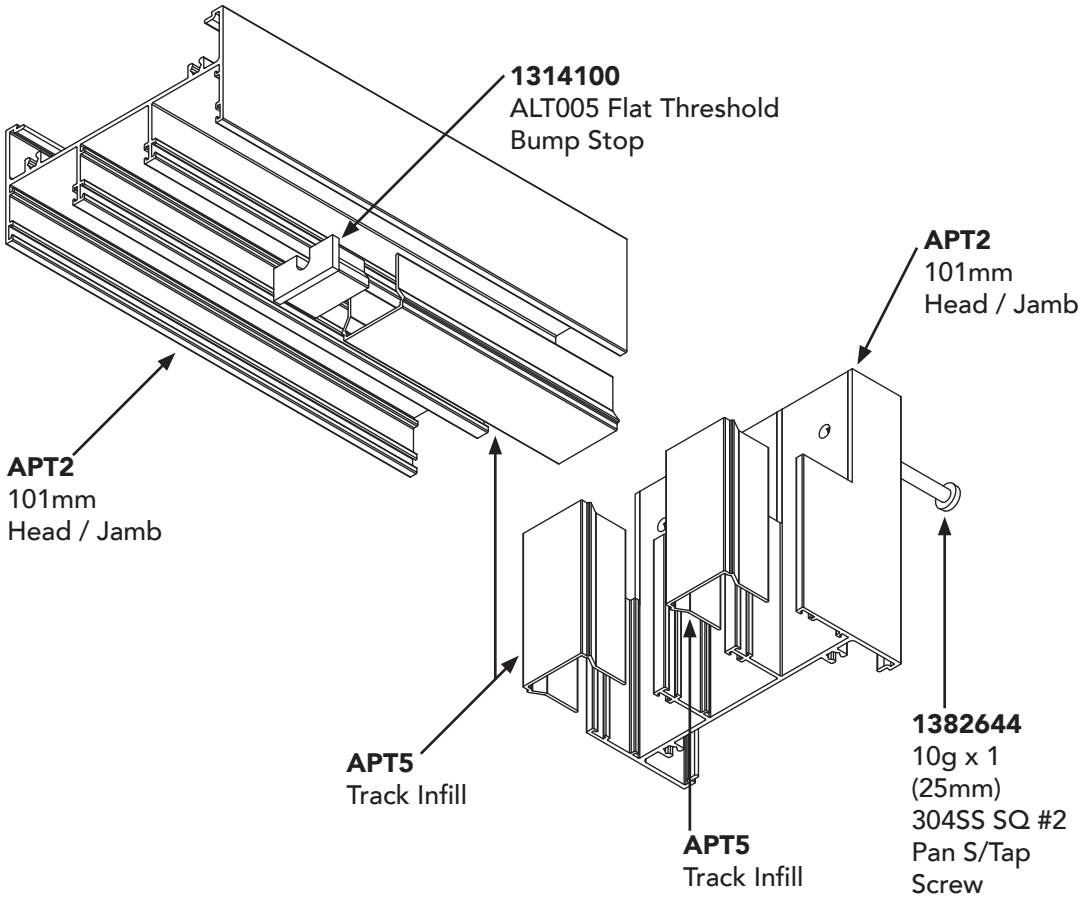
Head Frame Corner Assembly (Receiver Jamb)



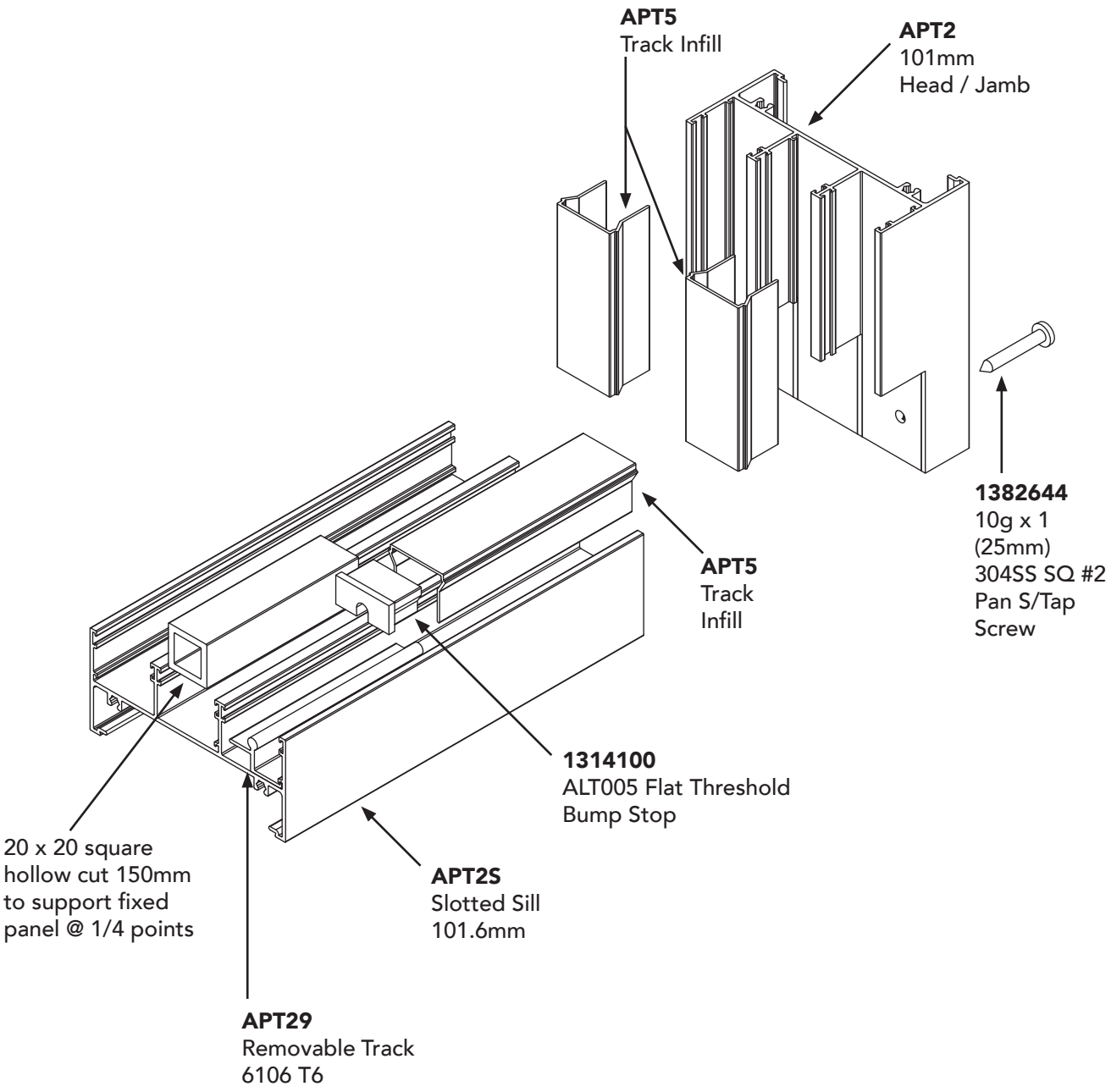
Sill Frame Corner Assembly (Receiver Jamb)



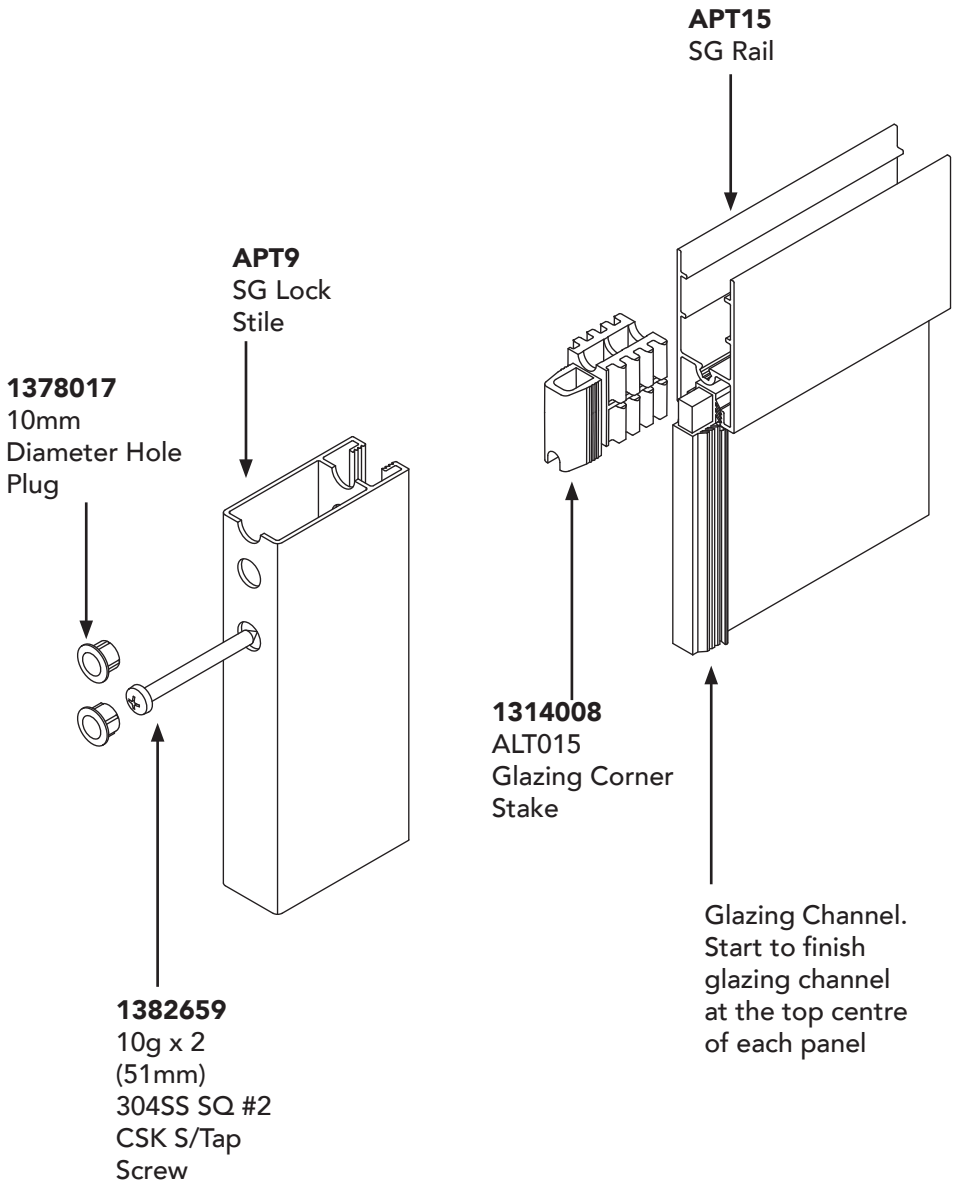
Head Frame Corner Assembly (Fixed Panel Jamb)



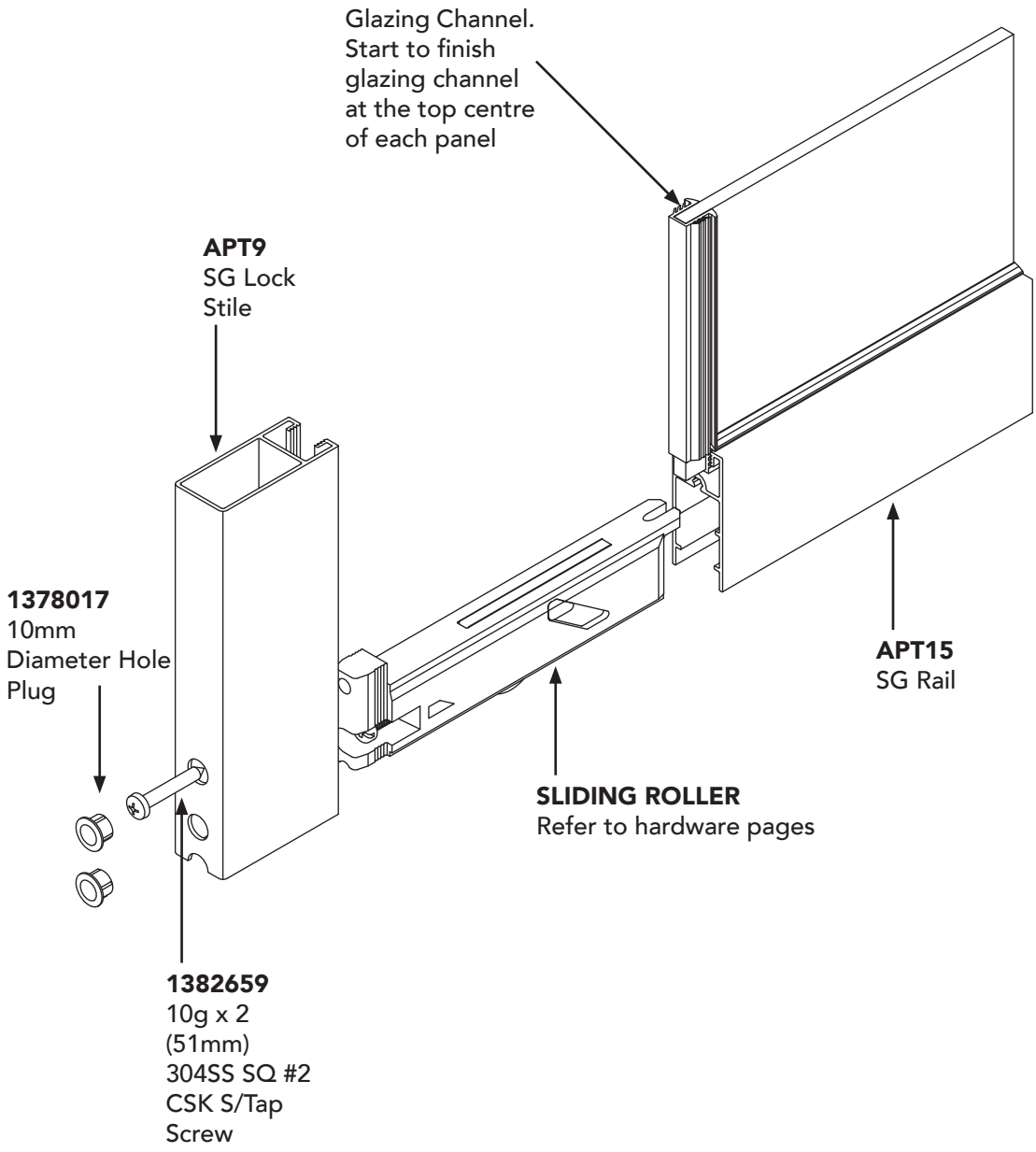
Sill Frame Corner Assembly (Fixed Panel Jamb)



Lead Panel Top Corner Assembly

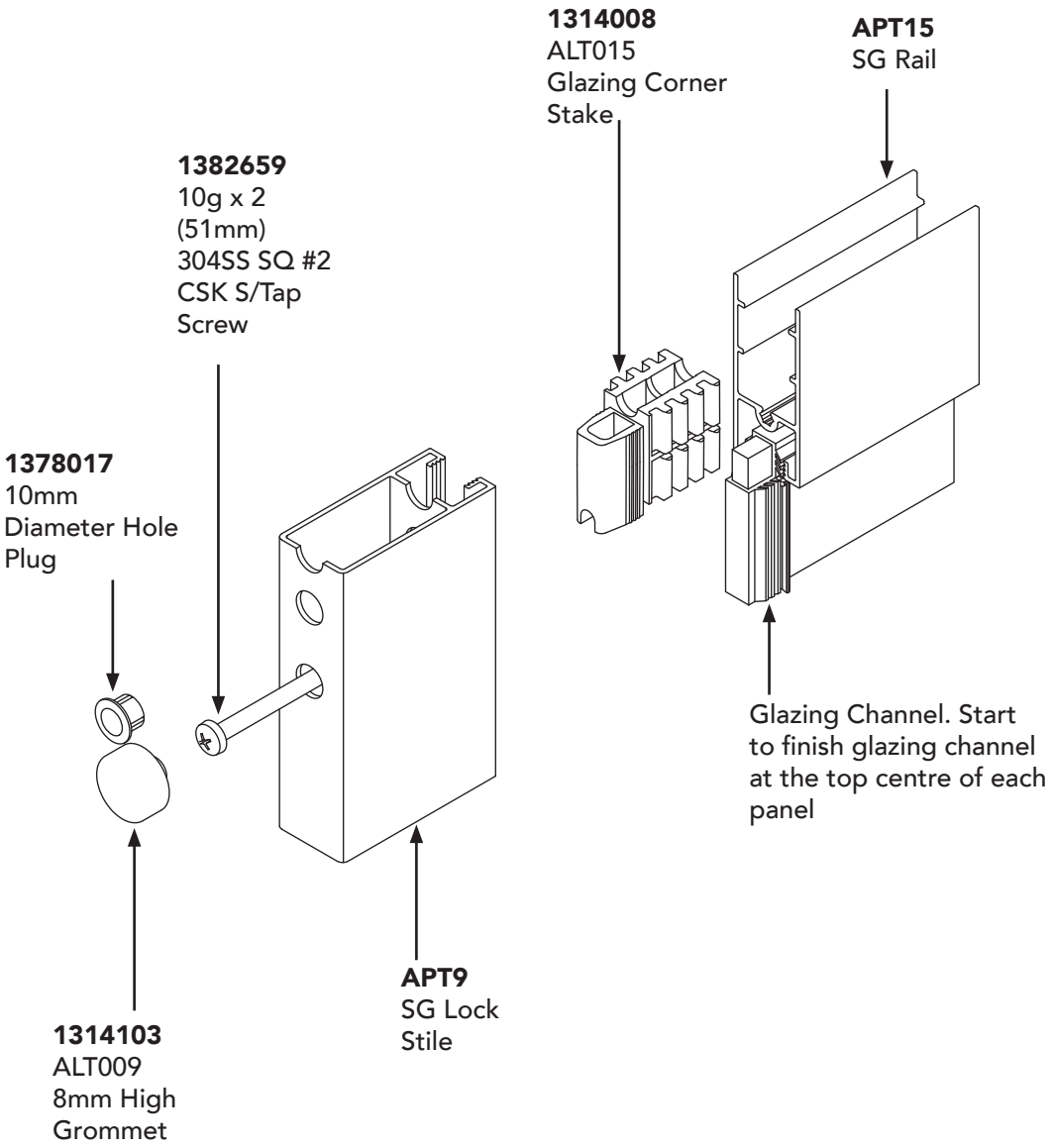


Lead Bottom Panel Corner Assembly

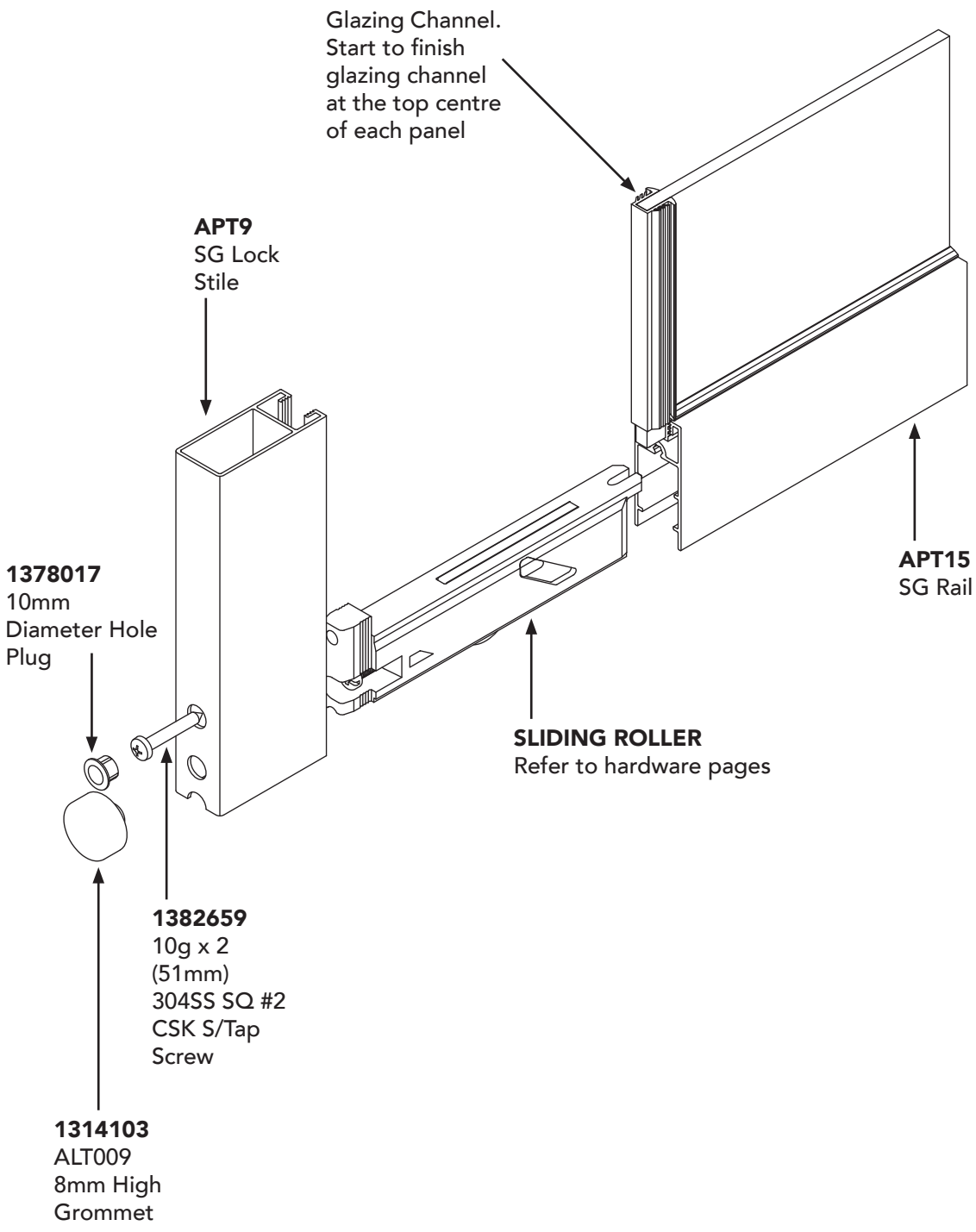


11. Assembly Details

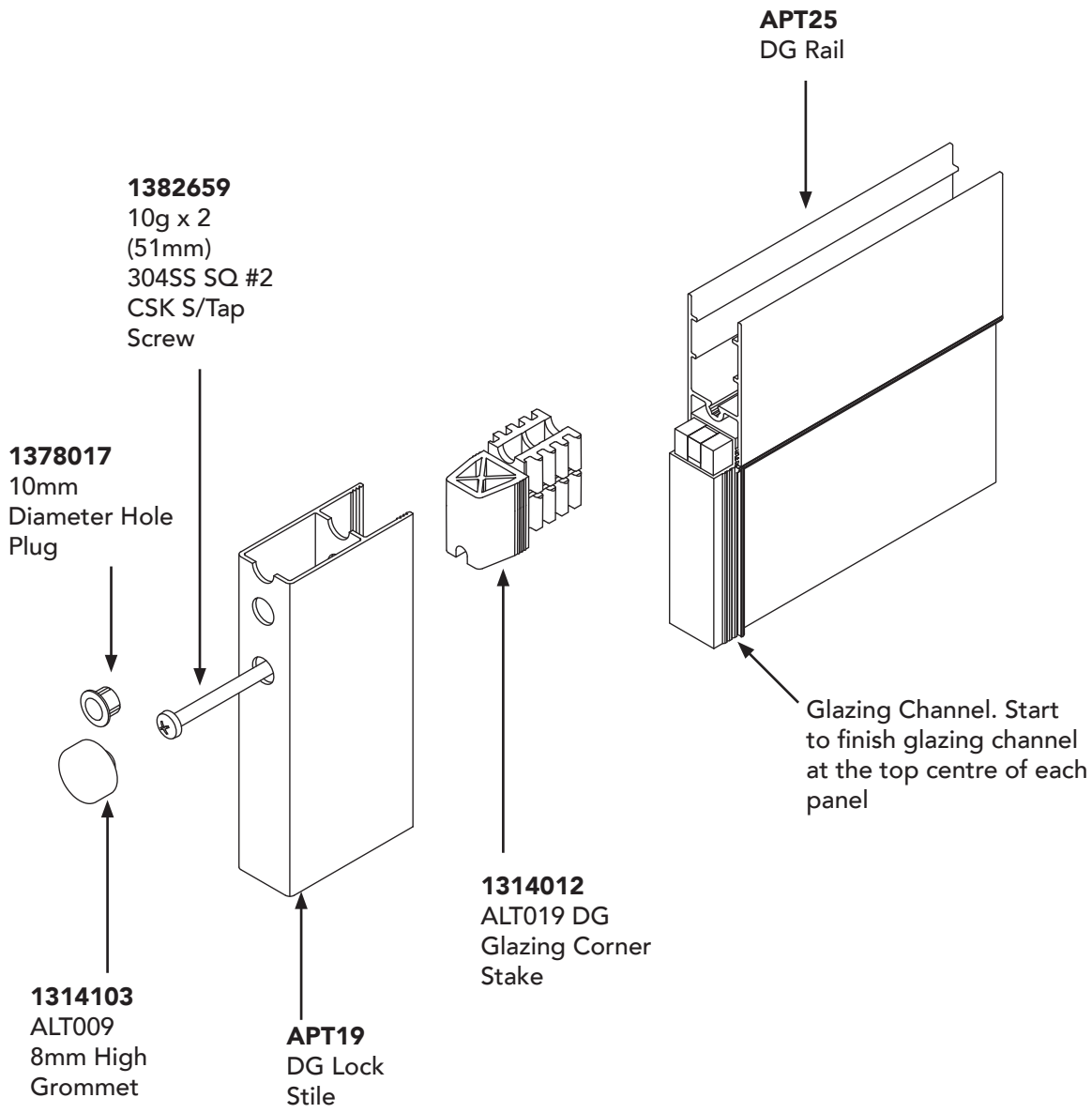
SG Panel Fixed Top Corner Assembly



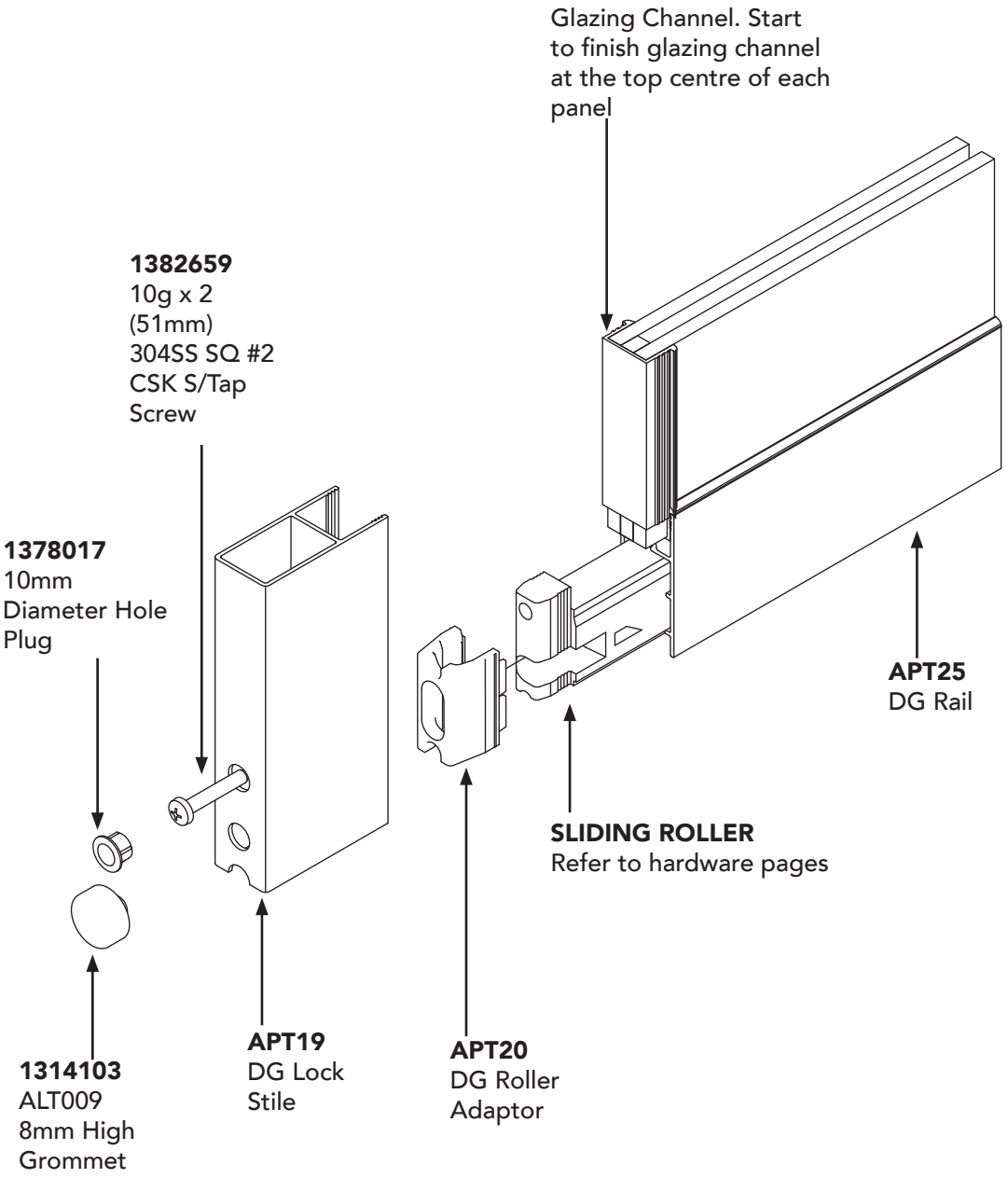
SG Panel Fixed Lower Corner Assembly



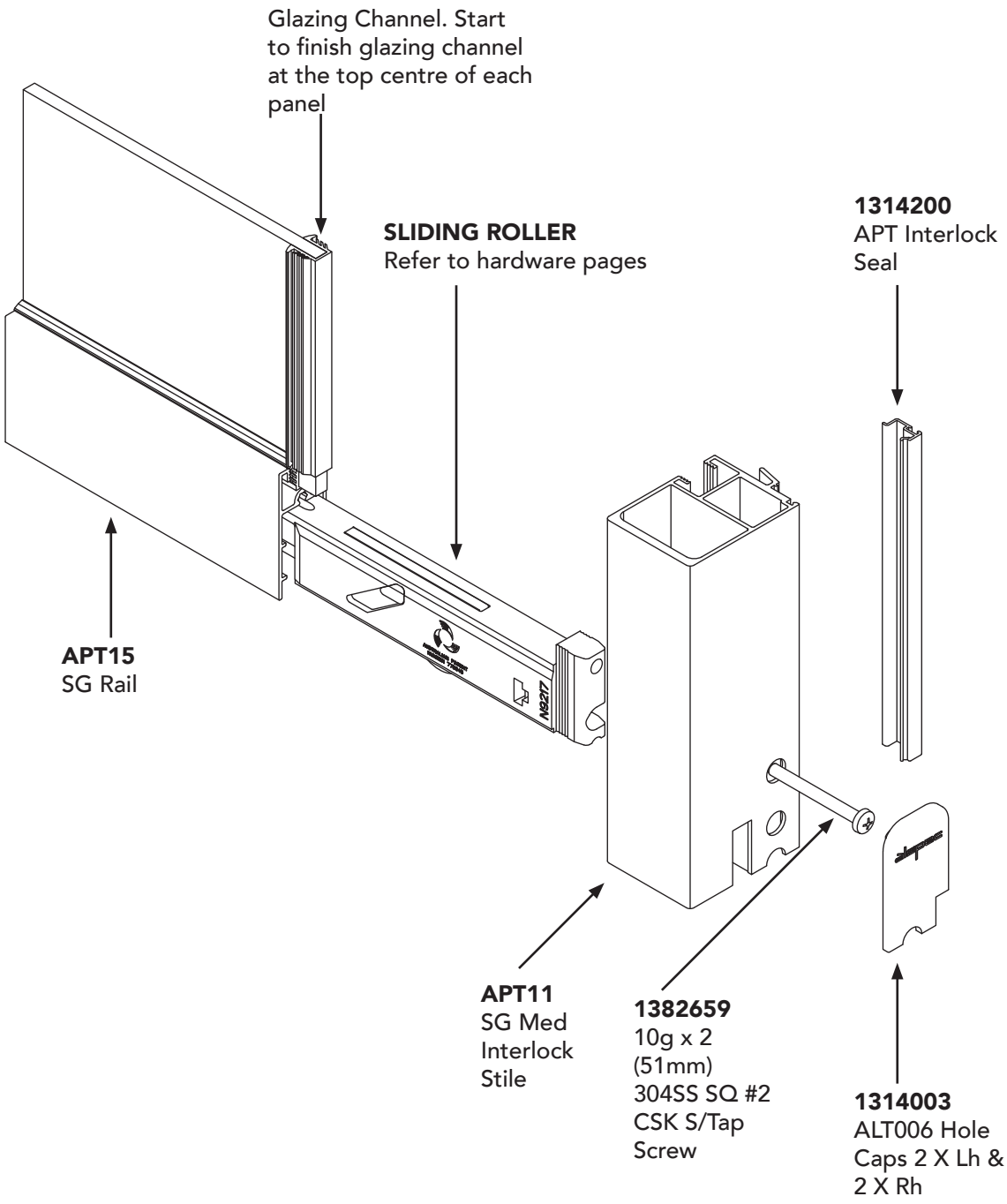
DG Panel Fixed Top Corner Assembly



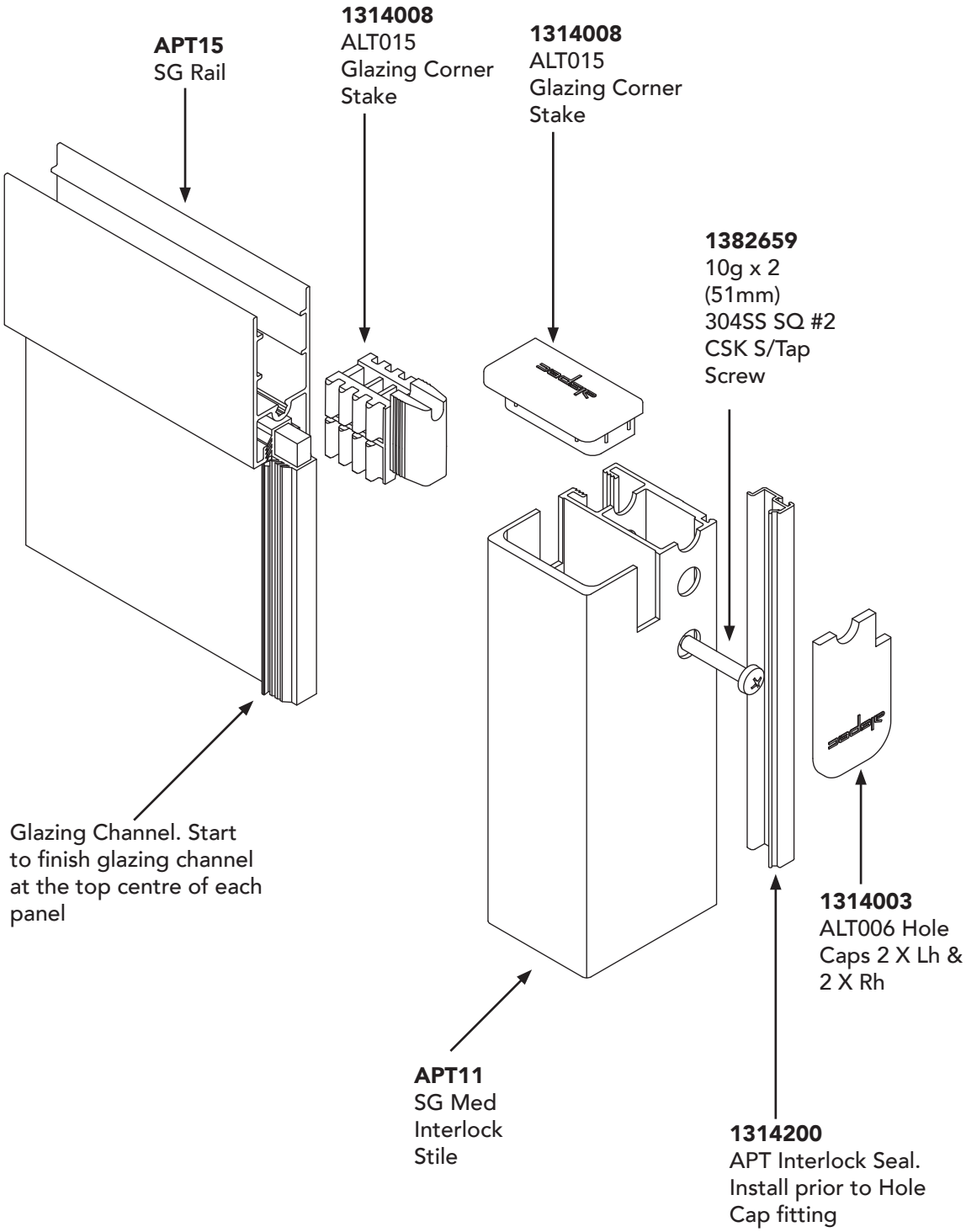
DG Panel Fixed Lower Corner Assembly



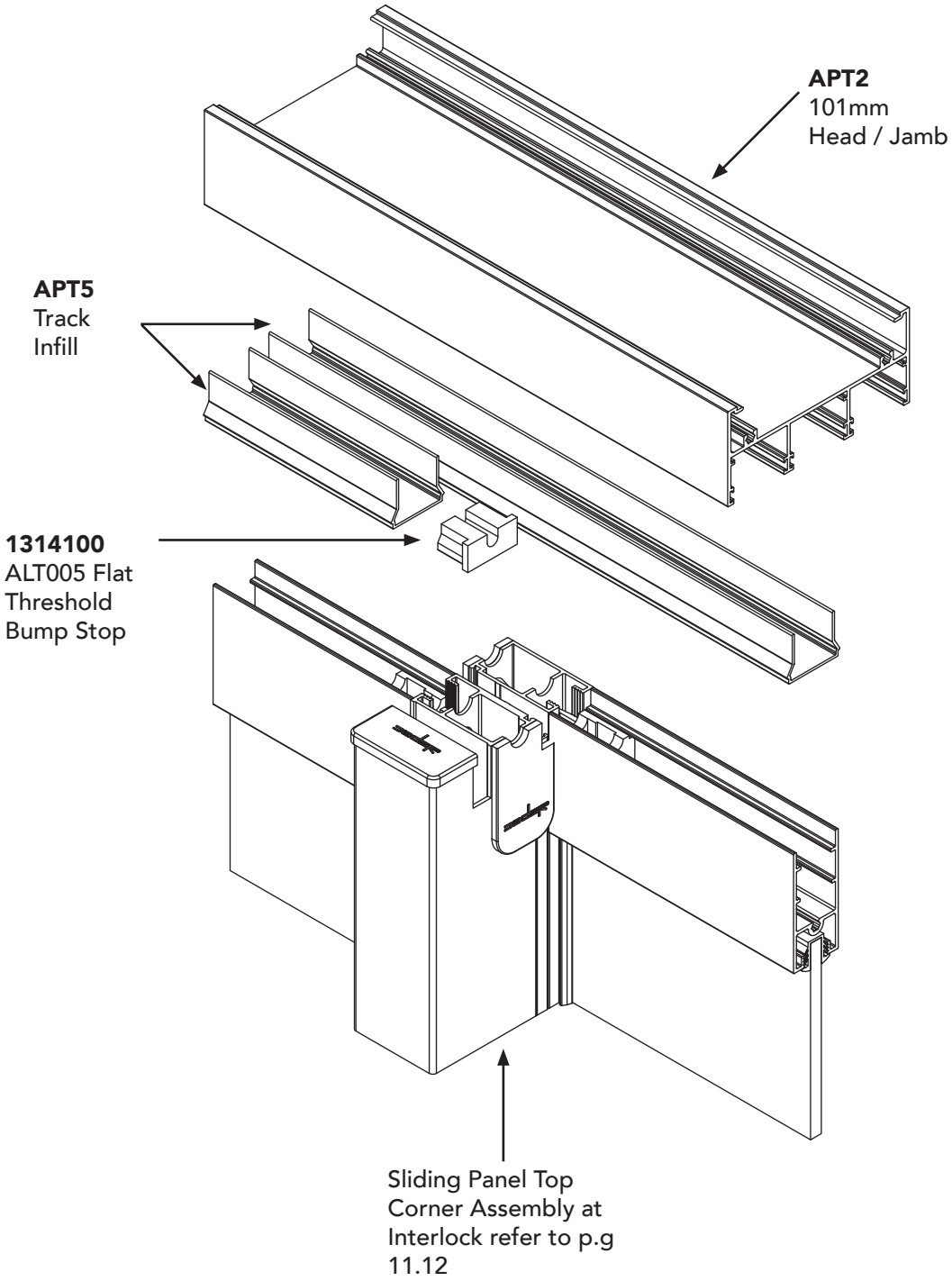
Sliding Panel Lower Corner Assembly at Interlock



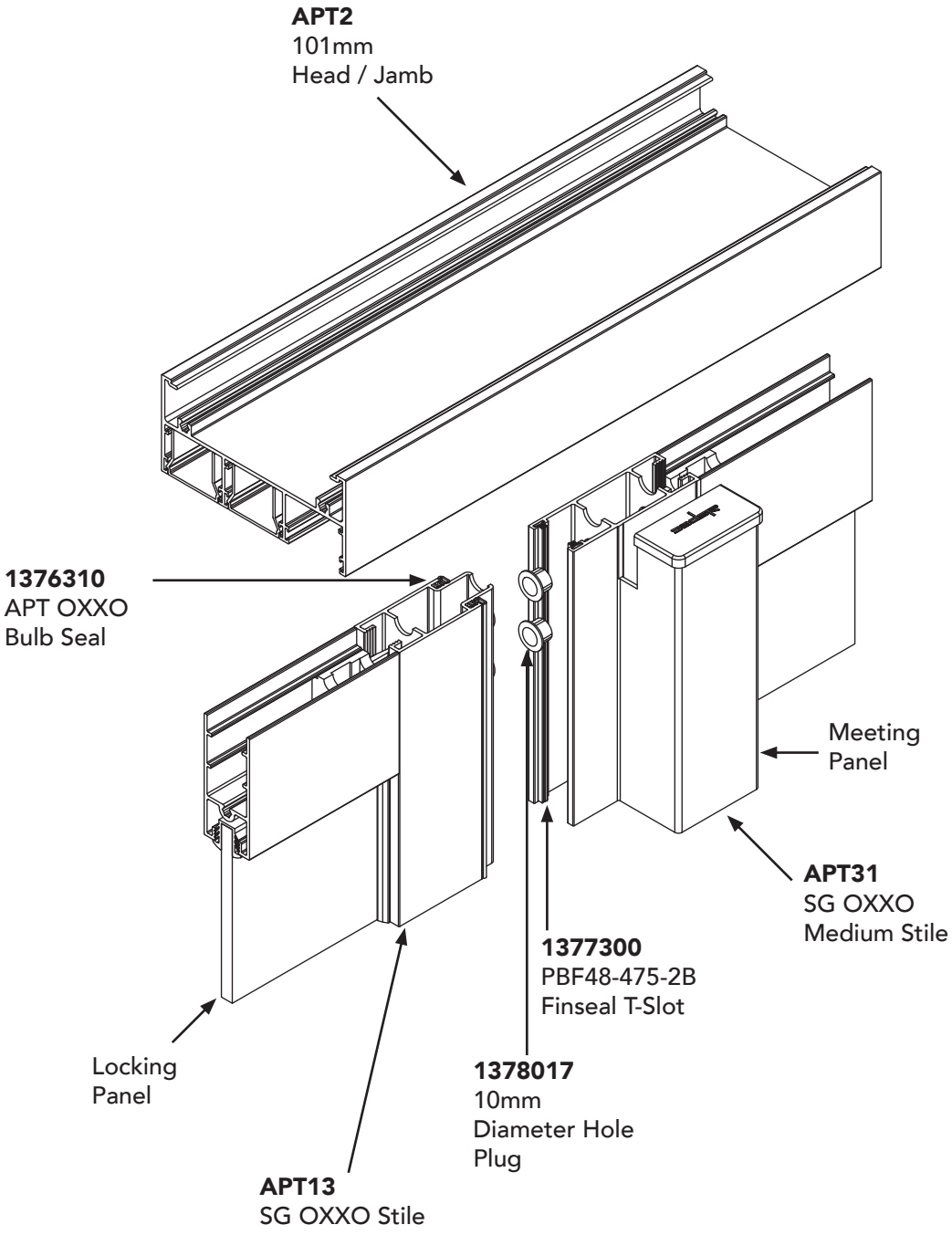
Sliding Panel Top Corner Assembly at Interlock



Stacker Head Assembly at Interlock

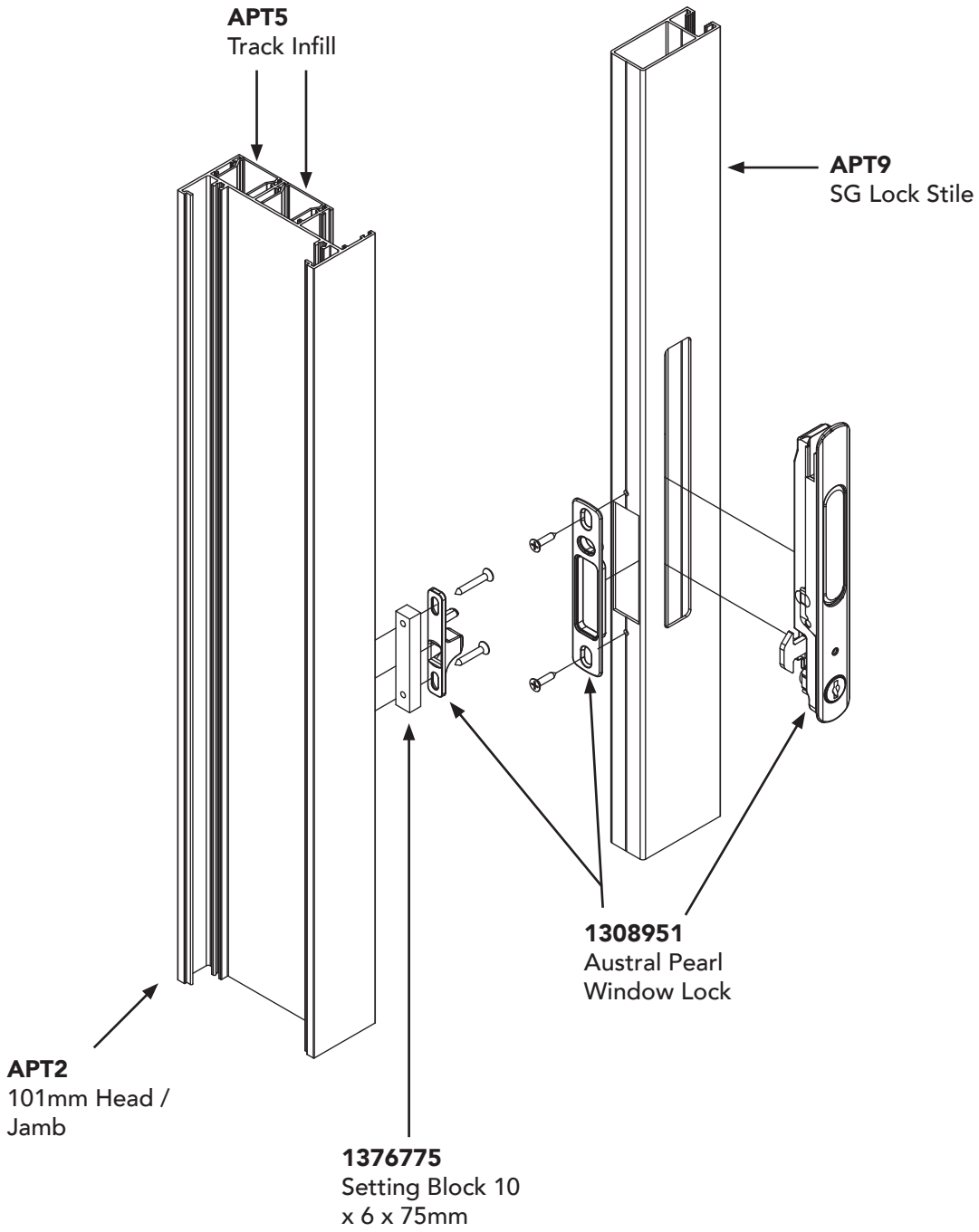


Stacker Head at Meeting Stiles

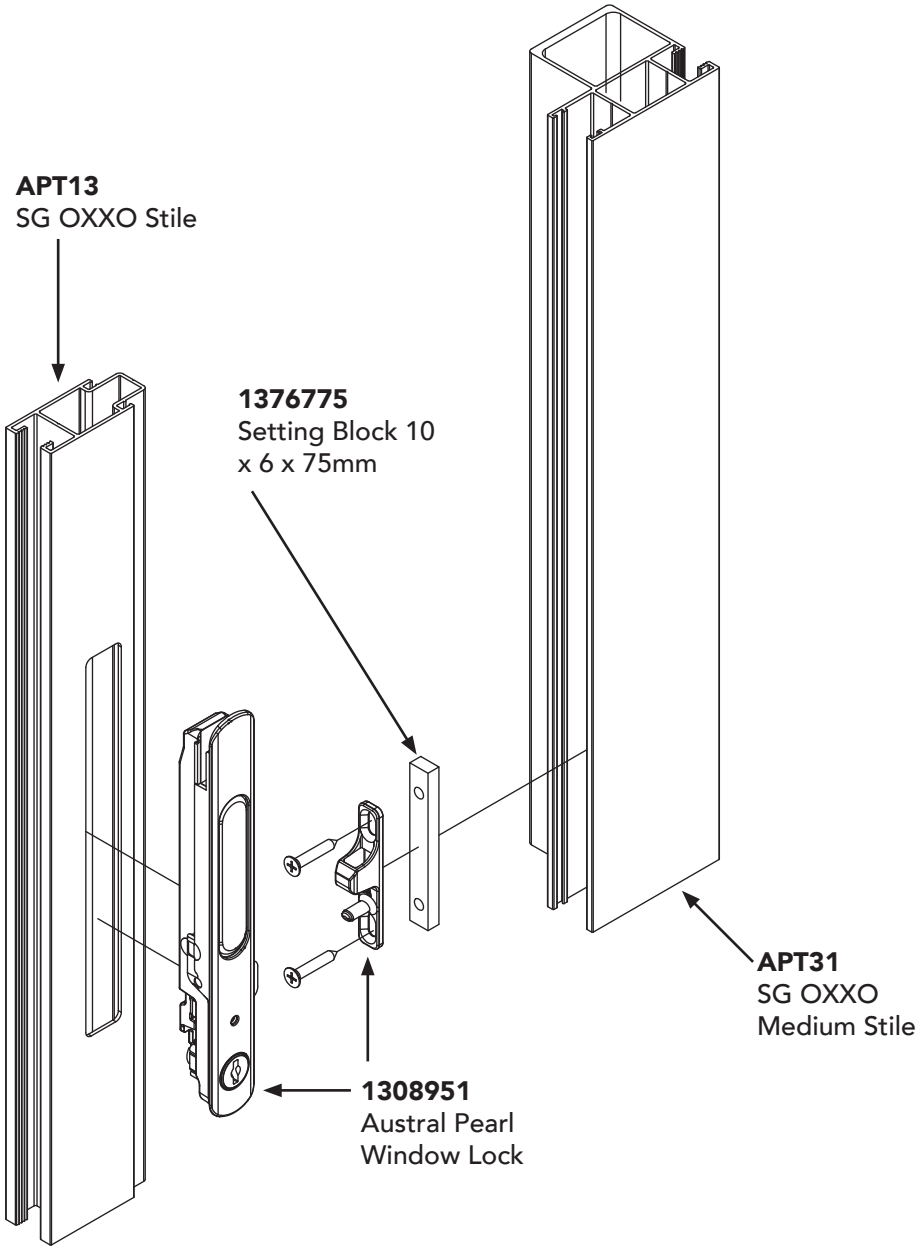


11. Assembly Details

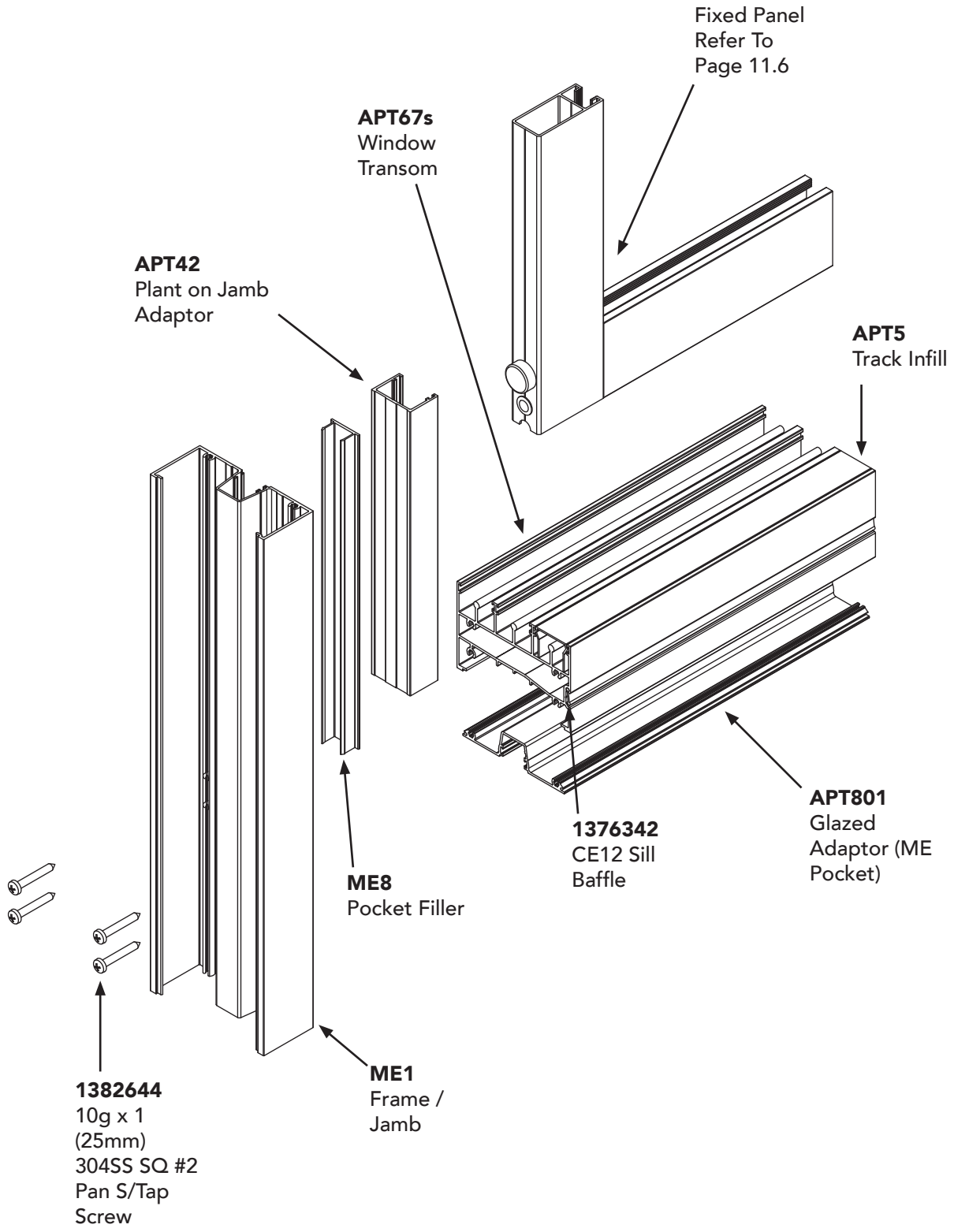
Pearl Lock to Jamb



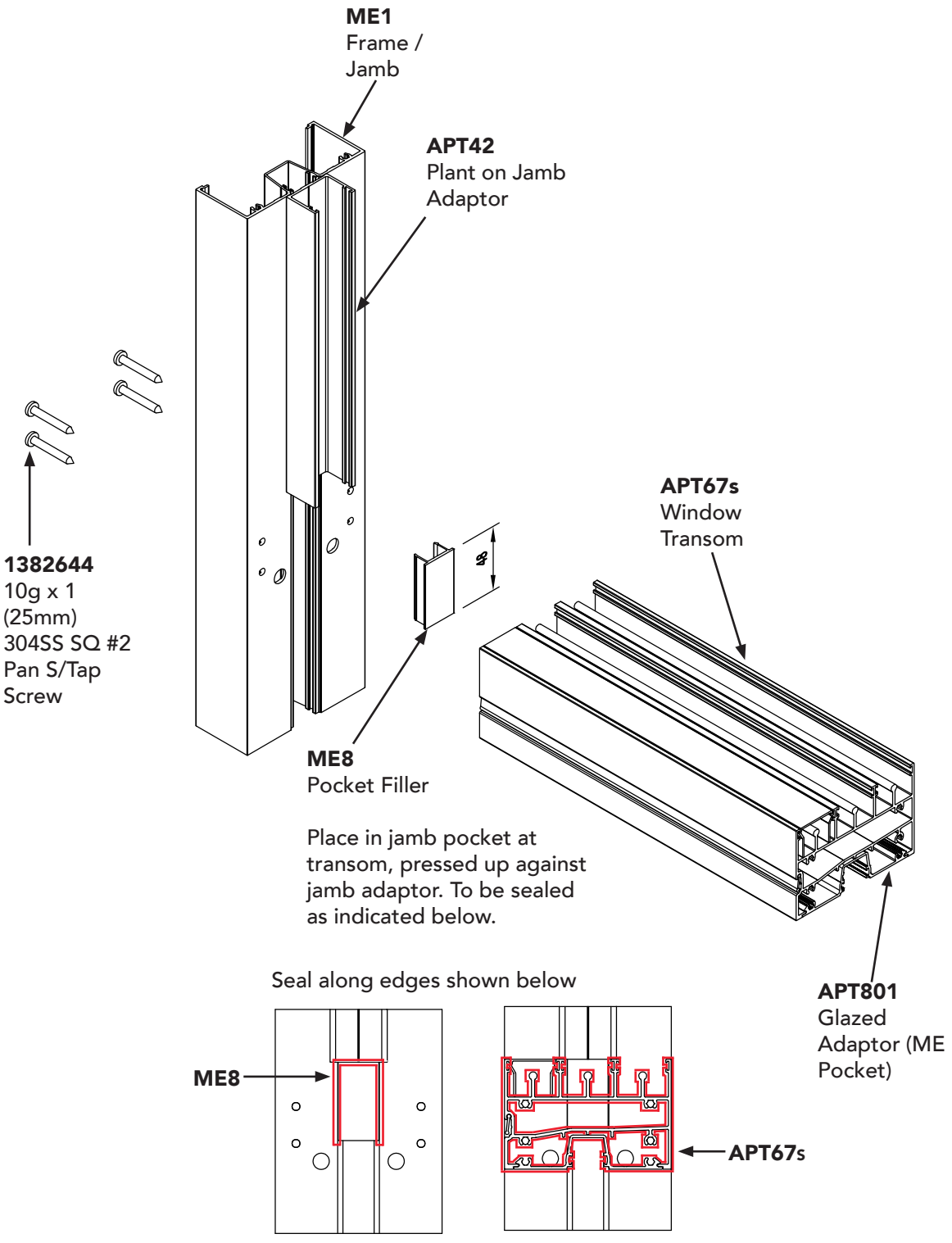
Pearl Lock Metting Stile Assembly



Low Lite Assembly

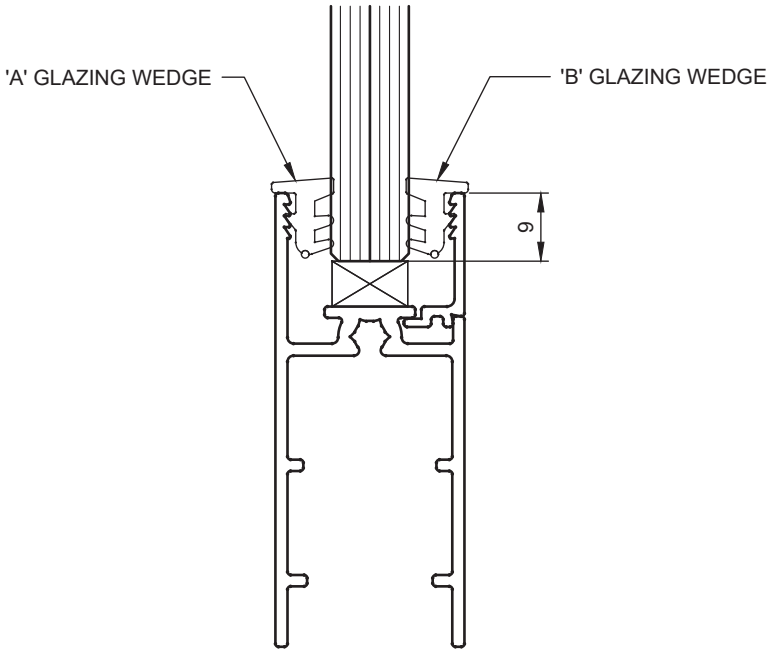


Silicone Detail at Transom



12. Glazing Details

Glazing Bead

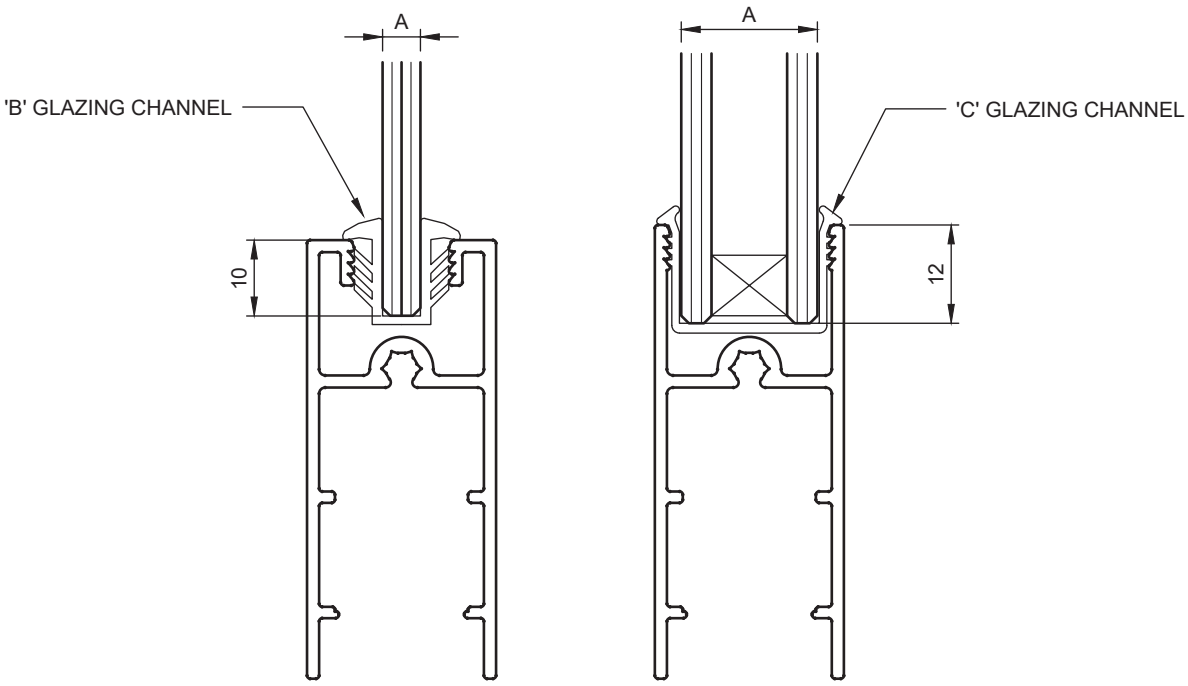


	'A' GLAZING WEDGE		'B' GLAZING WEDGE	
GLASS THICKNESS	REF.	CODE	REF.	CODE
10 - 10.38mm	GR45	1313057	GR45	1313057
10.76mm	GR45	1313057	GR44	1313056
12.38mm	GR44	1313056	GR44	1313056

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

12. Glazing Details

Glazing Channel



GLASS THICKNESS 'A'	'B' GLAZING CHANNEL	'C' GLAZING CHANNEL
4mm	GR59 - 1376028	-
5mm	GR60 - 1376033	-
6 - 6.38mm	GR61 - 1376044	-
8 - 8.38mm	GR62 - 1376029	-
10 - 10.38mm	GR63 - 1376035	-
12.38mm	-	GR64 - 1313088
13.52mm	-	GR75 - 1376153
17.5mm	-	GR71 - 1376144
18 - 18.38mm	-	GR52 - 1376088
18.5mm	-	GR69 - 1376141

Note: For window & door systems requiring a co-extruded captive gasket on the external side of the glazed pocket, Santoprene is the recommended material to be applied.

FRAMING

Your new **Altitude Sliding Window** frames have been manufactured using the highest quality materials available to the Architectural industry. Constructed from Architectural grade aluminium, these products are highly corrosion resistant and exceptionally strong. With a moderate amount of maintenance, the **Altitude Sliding Window** frame will retain it's good looks and resist the elements for years to come.

The **Altitude Sliding Window** frames are the product of extensive research and development and designed to resist corrosion and rusting, but as with all external elements on the building require some maintenance to keep them looking good and performing well. Depending on how harsh the environment elements are, the maintenance period will vary. Refer to recommended maintenance table below.

Your **Altitude Sliding Window** frames should only ever need to be washed down with a soft bristled brush using warm water and mild detergent. Rinse well with fresh water and remove any detergent residue. Strong detergents and abrasive cleaners should never be used to clean the **Altitude Sliding Window** frames as they may scratch or damage the surface finish.

MAINTENANCE PERIOD TABLE

ENVIRONMENT	RECOMMENDED MAXIMUM MAINTENANCE INTERVAL
Mild	Six Months
Moderate	Three Months
Tropical/Severe	One Month

Environmental Definitions:

Mild – Being rural, away from the coast and remote from industry and urban activity.

Moderate – Being mainly urban, inland and away from heavy industry.

Tropical – Being coastal/marine, subject to salt deposition and within 15km of the Eastern coast or 10km of the Western coast of Australia.

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