



CityScape®
Aluminium Shutter System

CityScape Aluminium Shutter System

Technical Manual
February 2024 | ISSUE B

alspec®
EVERYTHING ALUMINIUM
& HARDWARE

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This page is intended to record all changes to the **CITYSCAPE ALUMINIUM SHUTTER SYSTEM** technical manual pages.

[illegible]

2. Technical Specifications

ALUMINIUM

Aluminium frames should be manufactured using Alspec's **CITYSCAPE ALUMINIUM SHUTTER SYSTEM** framing system.

Refer below for maximum panel heights and widths. Sizes must be checked against wind loading tables for suitability.

Fixed Panels

Maximum Height3000mm
Maximum Width.....1000mm

Bi-fold Panels

Maximum Height2400mm
Maximum Width.....900mm
Maximum Panel Weight for Bi-fold Panels.....25kgs

Sliding Panels

Maximum Height3000mm
Maximum Width.....1000mm
Maximum Panel Weight for Sliding Panels.....40kgs

Midrails are recommended for panels over 2100mm high, and must be used when an Elegance XC lock is installed.

HARDWARE

- All other hardware as per Alspec Technical Manual

FINISHED

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

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 AS1170 (loading code).

Fabricators of the CITYSCAPE ALUMINIUM SHUTTER SYSTEM 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.

3. Loading Tables

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
	2400	S	1770	1450	1250	1080	1010
		U	3440	2810	2410	2080	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
lxx = xxx x xxx mm4	Panel Width	800	1000	1200	1400	1600	

STEP 1

→

2400

STEP 2

↑

1000

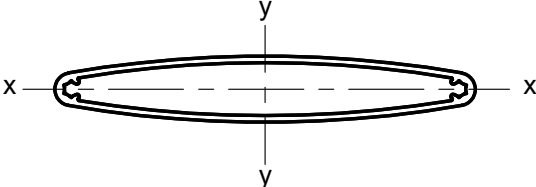
STEP 3

←

1450

3. Loading Tables

SCS113 Louvre Blade

SCS113 - 89mm Louvre Blade							
							
$I_{xx} = 6.5 \times 10^3 \text{ mm}^4$							
	Wind Pressure Selection Chart						
Max Design Presure (Pa)	6430	5140	4110	3340	2750	2290	1930
Max Regional Rating: General	C4, N6	C3, N6	C3, N6	C2, N5	C2, N4	C1, N4	C1, N3
Max Regional Rating: Corner	C3, N6	C2, N5	C2, N4	C1, N4	C1, N3	N3	N2
Panel Width	700	750	800	850	900	950	1000

Additional wind pressure charts have been supplied for other framing elements in the system. Pressures have been limited using a maximum limit state of I/250

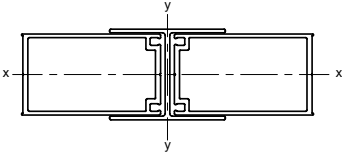
Tables are based on theoretical section properties

3. Loading Tables

SCS200P Stiles with SCS210 H Coupler

Max Stress = 110Mpa

U = Ultimate limit state

SCS200P Stiles with SCS210 H Coupler	Panel Height								
	3000	U	1440	1350	1270	1200	1130	1080	1030
	2850	U	1600	1500	1410	1330	1260	1200	1140
	2700	U	1790	1670	1570	1490	1410	1340	1280
	2550	U	2010	1880	1770	1670	1590	1510	1440
	2400	U	2280	2130	2010	1900	1800	1720	1640
	2250	U	2600	2440	2300	2180	2070	1970	1880
	2100	U	3000	2820	2660	2520	2390	2280	2190
	1950	U	3500	3290	3110	2950	2810	2680	2570
	1800	U	4140	3900	3690	3500	3340	3200	3070
$I_{xx} = 199 \times 10^3 \text{ mm}^4$	Panel Width		700	750	800	850	900	950	1000

The above table does not reflect the performance of the SCS113 louvre blade at the above sizes. The louvre blade must be evaluated independnatly for suitability.

Tables are based on theoretical section properties

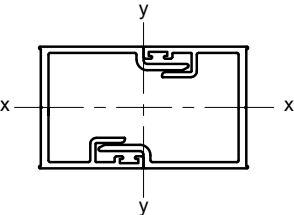
3. Loading Tables

SCS212P Self Mating Stiles

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

SCS212P Self Mating Stiles		Panel Height							
	3000	U	690	650	610	570	540	520	490
	2850	U	770	720	680	640	600	570	550
	2700	U	860	800	760	710	680	640	610
	2550	U	970	900	850	800	760	730	690
	2400	U	1090	1030	970	910	870	830	790
	2250	U	1250	1170	1110	1050	990	950	910
	2100	U	1440	1360	1280	1210	1150	1100	1050
	1950	U	1690	1580	1500	1420	1350	1290	1240
	1800	U	2000	1880	1770	1690	1610	1540	1480
Ixx = 86.8 x 10 ³ mm ⁴		Panel Width	700	750	800	850	900	950	1000

Tables are based on theoretical section properties

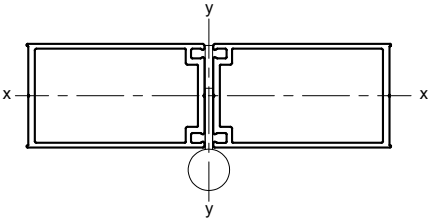
3. Loading Tables

SCS200P Stiles

Max Stress = 110Mpa

S = Serviceability limit state l/250

U = Ultimate limit state

SCS200P Stiles	Panel Height								
	3000	U	1090	1020	960	900	860	810	780
	2850	U	1210	1130	1060	1000	950	910	860
	2700	U	1350	1270	1190	1120	1070	1010	970
	2550	U	1520	1420	1340	1270	1200	1140	1090
	2400	U	1720	1610	1520	1440	1360	1300	1240
	2250	U	1970	1850	1740	1650	1560	1490	1430
	2100	U	2270	2130	2010	1900	1810	1730	1650
	1950	U	2650	2490	2350	2230	2120	2030	1950
	1800	U	3140	2950	2790	2650	2530	2420	2320
$I_{xx} = 134.6 \times 10^3 \text{ mm}^4$	Panel Width		700	750	800	850	900	950	1000

Tables are based on theoretical section properties

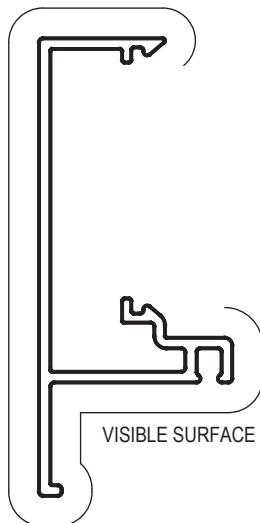
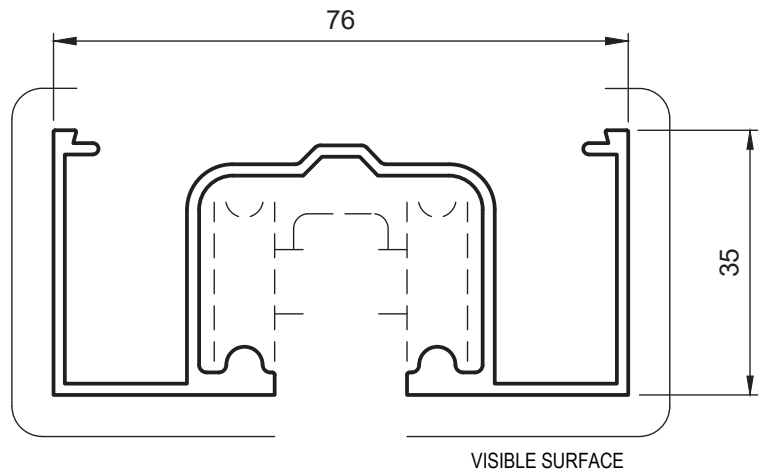
5. Extrusions

* DENOTES REGISTERED DESIGN

SCS1*

HEAD

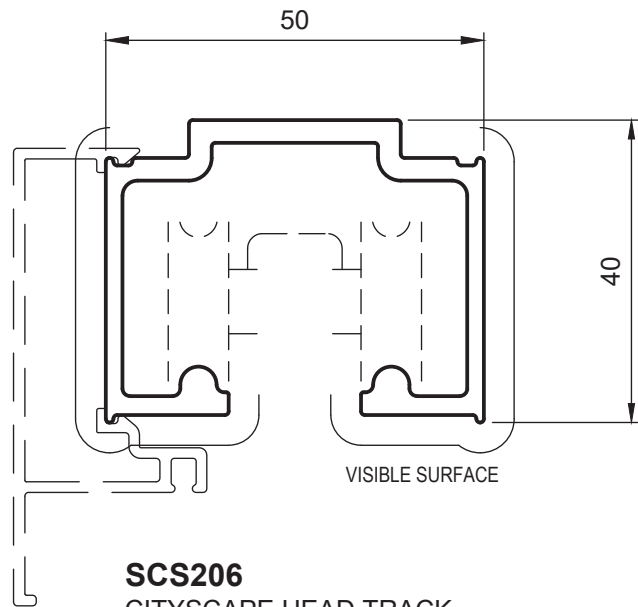
Mass. 1.135 Kg/m
Anod. Per. 461
Paint Per. 136



SCS207

CITYSCAPE PELMET

Mass. 0.493 Kg/m
Anod. Per. 251
Paint Per. 136



SCS206

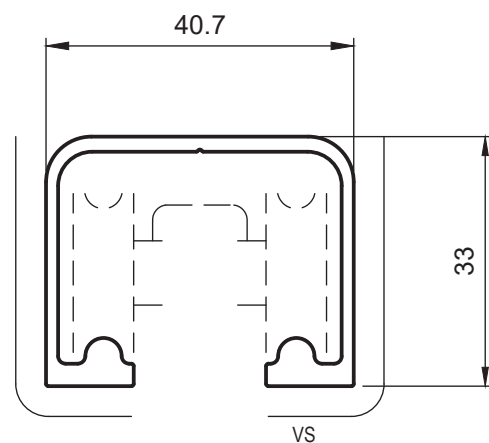
CITYSCAPE HEAD TRACK

Mass. 1.129 Kg/m
Anod. Per. 313
Paint Per. 106

SCS11 *

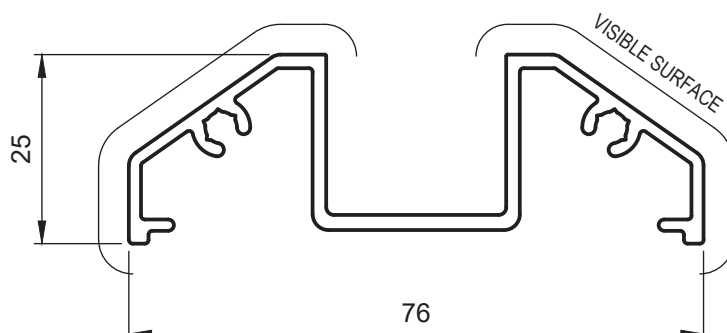
TRACK

Mass. 0.710 Kg/m
Anod. Per. 247
Paint Per. 100



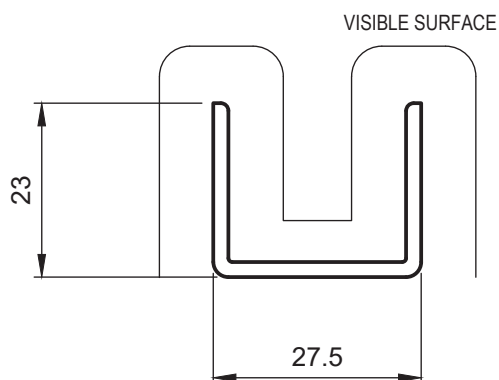
5. Extrusions

* DENOTES REGISTERED DESIGN



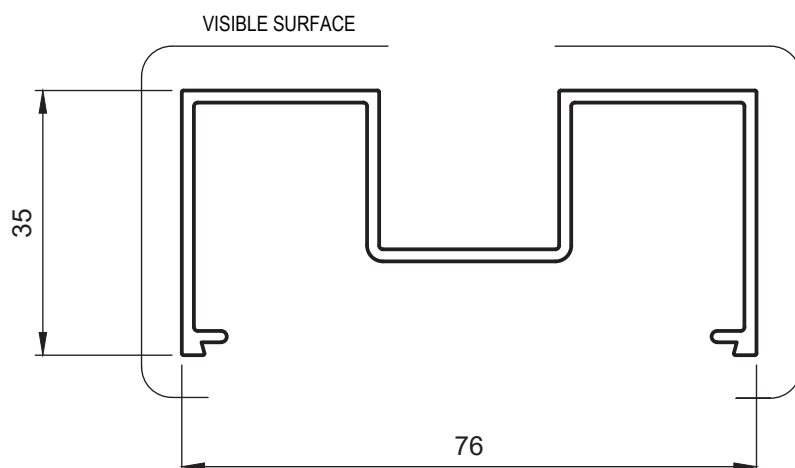
SCS208
CITYSCAPE SILL TRACK

Mass. 0.832 Kg/m
Anod. Per. 346
Paint Per. 100



SCS12 *
SILL CHANNEL

Mass. 0.371 Kg/m
Anod. Per. 140
Paint Per. 116



SCS2 *
SILL

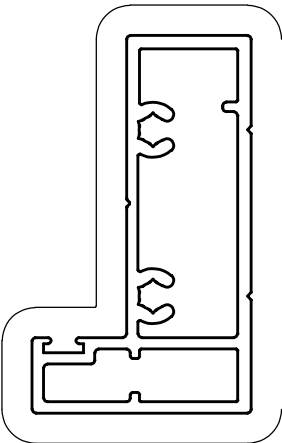
Mass. 0.843 Kg/m
Anod. Per. 386
Paint Per. 196



AS23
25mm PLAIN FRAME

Mass. 0.961 Kg/m
Anod. Per. 367
Paint Per. 163

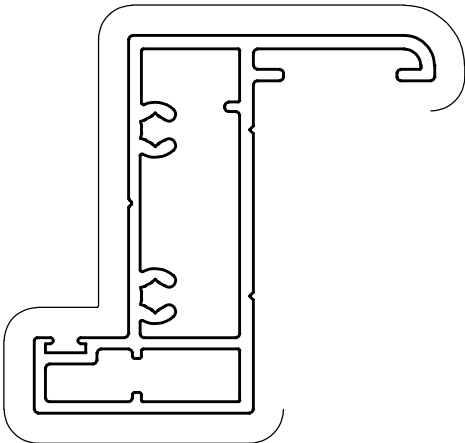
5. Extrusions



VISIBLE SURFACE

SCS215
CITYSCAPE HINGED FRAME

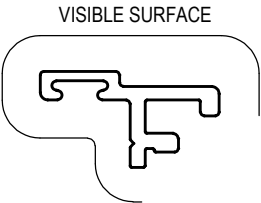
Mass. 0.841 Kg/m
Anod. Per. 166
Paint Per. 116



VISIBLE SURFACE

SCS216
CITYSCAPE HINGED
OVERLAP FRAME

Mass. 1.001 Kg/m
Anod. Per. 232
Paint Per. 155



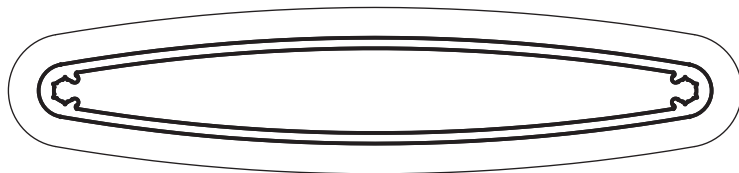
VISIBLE SURFACE

MFA29
MEETING STILE
ADAPTOR

Mass. 0.215 Kg/m
Anod. Per. 100
Paint Per. 100

5. Extrusions

VISIBLE SURFACES

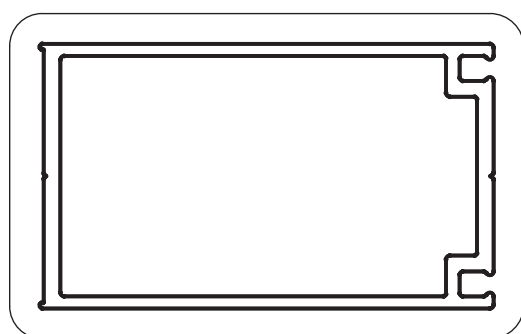


SCS113

ELLIPTICAL 89mm
LOUVRE BLADE

Mass. 0.726 Kg/m
Anod. Per. 187
Paint Per. 187

VISIBLE SURFACES

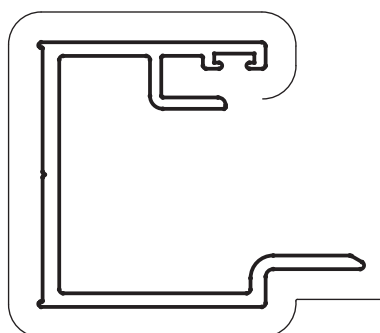


SCS200P

CITYSCAPE 60 x 35 STILE
PUNCHED

Mass. 0.941 Kg/m
Anod. Per. 210
Paint Per. 210

VISIBLE SURFACES

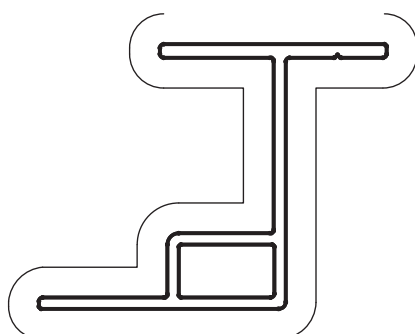


SCS212P

CITYSCAPE SELF MATING STILE
PUNCHED

Mass. 0.632 Kg/m
Anod. Per. 257
Paint Per. 172

VISIBLE SURFACES



SCS211

CITYSCAPE
FLYSCREEN
BUILD OUT

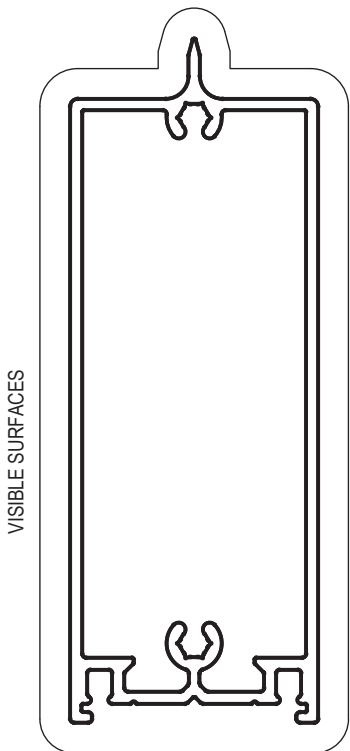
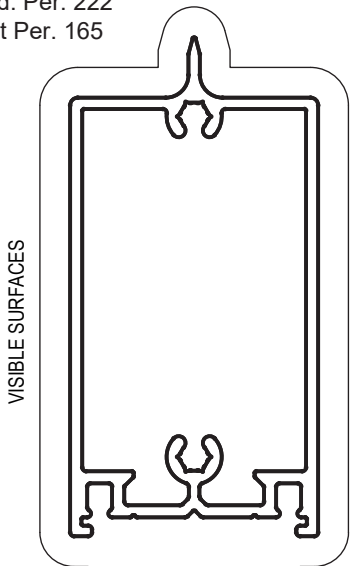
Mass. 0.498 Kg/m
Anod. Per. 189
Paint Per. 161

5. Extrusions

* DENOTES REGISTERED DESIGN

SCS201*
CITYSCAPE 66mm RAIL

Mass. 0.974 Kg/m
Anod. Per. 222
Paint Per. 165

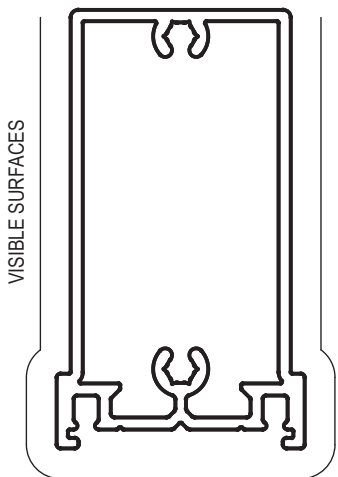
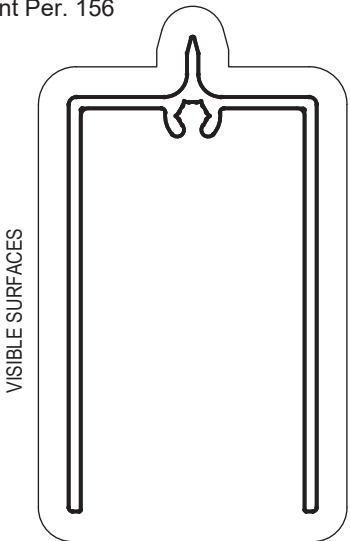


SCS202
CITYSCAPE 90mm RAIL

Mass. 1.187 Kg/m
Anod. Per. 271
Paint Per. 214

SCS203*
CITYSCAPE ADJUSTABLE RAIL SLEEVE

Mass. 0.665 Kg/m
Anod. Per. 307
Paint Per. 156

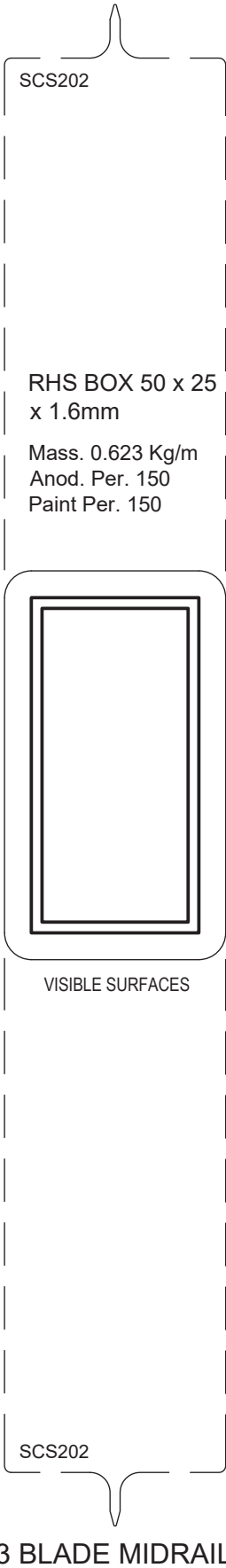
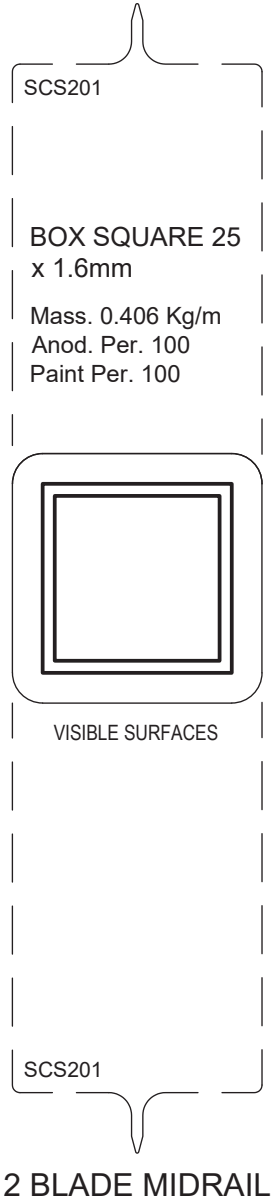
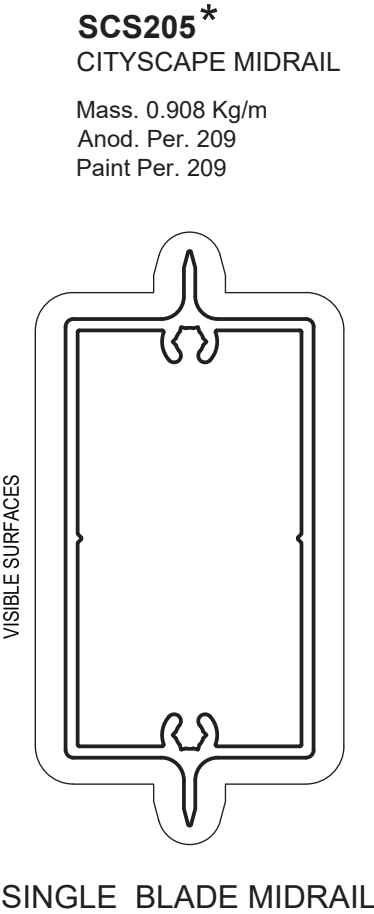


SCS204*
CITYSCAPE ADJUSTABLE RAIL

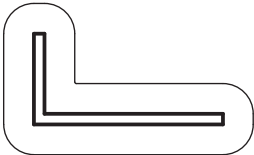
Mass. 0.948 Kg/m
Anod. Per. 210
Paint Per. 152

5. Extrusions

* DENOTES REGISTERED DESIGN

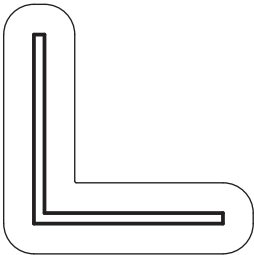


5. Extrusions



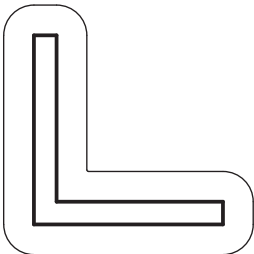
VISIBLE SURFACES

TRIM ANGLE 25 x 12mm
Anod. Per. 100
Paint Per. 100



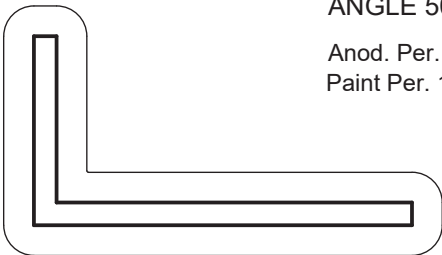
VISIBLE SURFACES

TRIM ANGLE 25 x 25mm
Anod. Per. 100
Paint Per. 100



VISIBLE SURFACES

ANGLE 25 x 25 x 3mm
Anod. Per. 100
Paint Per. 100

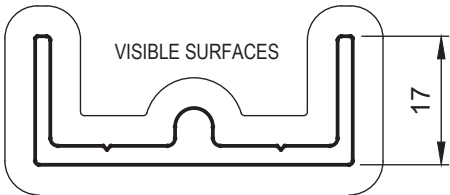
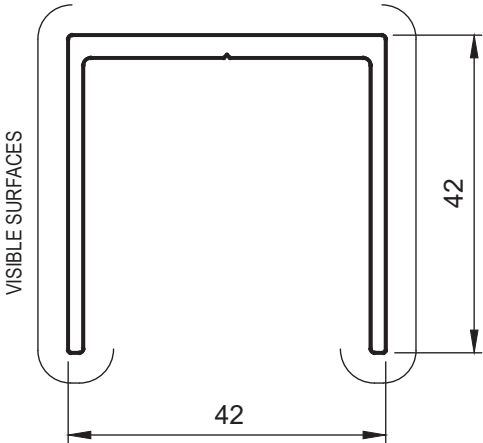


VISIBLE SURFACES

ANGLE 50 x 25 x 3mm
Anod. Per. 150
Paint Per. 150

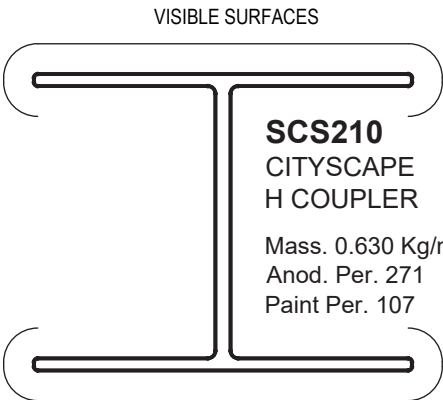
SCS209
42 x 42mm FIXED PANEL CHANNEL

Mass. 0.764 Kg/m
Anod. Per. 244
Paint Per. 100



SCS213
CITYSCAPE BOTTOM CHANNEL

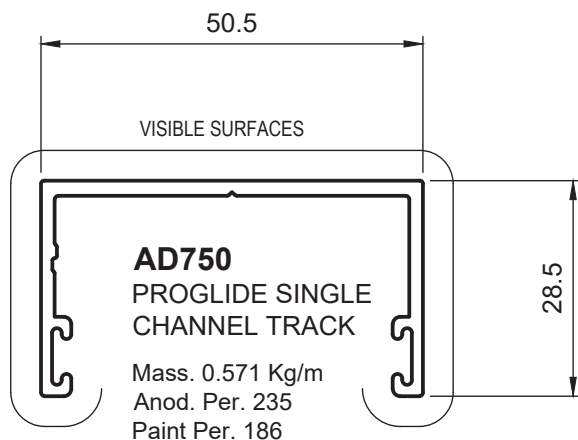
Mass. 0.503 Kg/m
Anod. Per. 153
Paint Per. 112



SCS210
CITYSCAPE
H COUPLER

Mass. 0.630 Kg/m
Anod. Per. 271
Paint Per. 107

5. Extrusions



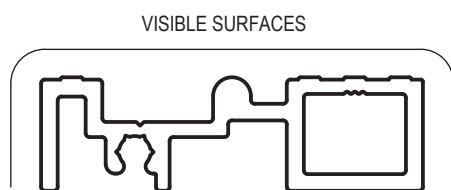
HD3
OFFSET INTERLOCK

Mass. 0.121 Kg/m
Anod. Per. 100
Paint Per. 100



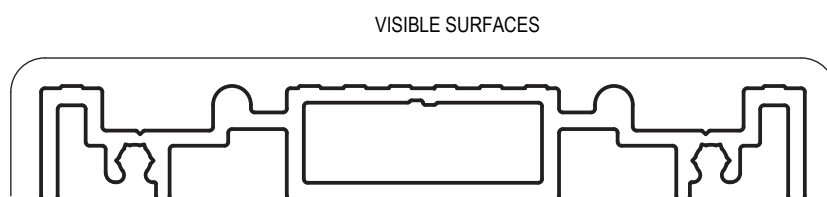
AD775 ***
PROGLIDE
PLANT ON TRACK

Mass. 0.442 Kg/m
Anod. Per. 117
Paint Per. 100



AD784 ***
PROGLIDE SINGLE
RECESSED ADD ON TRACK

Mass. 0.754 Kg/m
Anod. Per. 197
Paint Per. 100

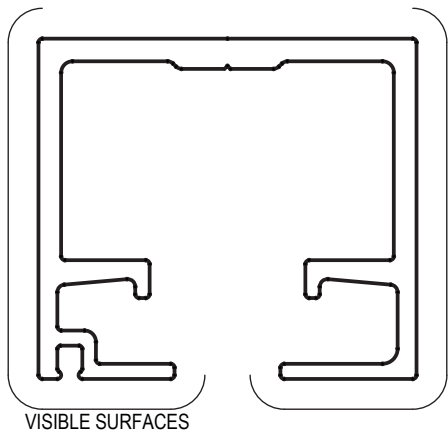


AD783 ***
PROGLIDE
RECESSED DBL
TRACK

Mass. 1.383 Kg/m
Anod. Per. 366
Paint Per. 165

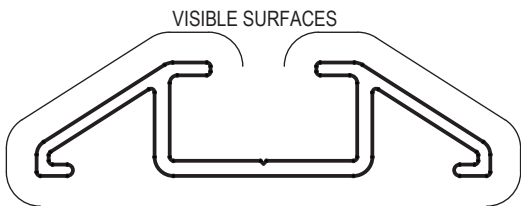
* Denotes for use in Internal applications only

5. Extrusions



SCS218
SLIDE BLOCK HEAD
TRACK

Mass. 1.492 Kg/m
Anod. Per. 394
Paint Per. 174



SCS217
SLIDE BLOCK SILL TRACK

Mass. 0.541 Kg/m
Anod. Per. 222
Paint Per. 108

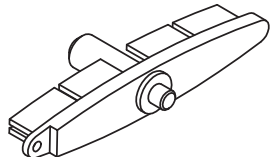
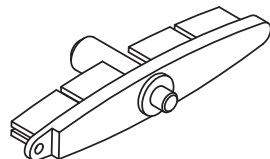
Seals

IMAGE	PART #	FINISH	DESCRIPTION
	1376449	BLACK (034)	MS6 MULLION SEAL PVC x 200m
	1377408	BLACK (034)	PS11 11mm FRINGE PILE x 100m
	1377126	BLACK (034)	PBF69-425-4B FINSEAL T-SLOT x 400m
	1376323	BLACK (034)	CE23 CO-EXT WEATHER SEAL x 200m ROLL
	1376079	BLACK (034)	CE308 CO-EXT DOOR BUFFER S/PRENE x 200m ROLL

Fasteners

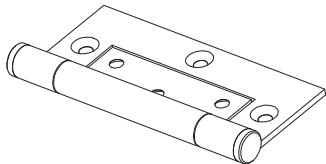
SCREWS			
PART #	HEAD	DESCRIPTION	LOCATION
1382689	SQUARE #1	6g x 3/4 (19mm) 304SS 4G SQ #1 CSK S/TAP SCREW x 1000	TILT BAR
1382690	SQUARE #1	6g x 3/4 (19mm) 304SS 4G SQ #1 CSK S/TAP SCREW x 1000 WHITE	
1382093	PHILLIPS #2	6g x 3/4 (19mm) 304SS PHIL #2 CSK 4g HEAD x 1000	
1382042	PHILLIPS	8g x 1/2 (13mm) SS PHILLIPS PAN S/TAP SCREW x 1000	STILE TO RAIL
1382046	PHILLIPS	8g x 1 (25mm) SS PHILLIPS PAN S/TAP SCREW x 500	STILE TO RAIL
1382643	SQUARE #2	10g x 1/2 (13mm) 304SS SQ #2 PAN S/TAP SCREW x 1000	PIVOT HARDWARE

End Caps

END CAPS					
 	SCA001 FIXED PIN END CAP SCS113 BLACK				
	Part	1313350	Finish	BLACK (034)	Qty EACH
	SCA002 FIXED PIN END CAP SCS113 WHITE				
	Part	1313351	Finish	PEARL WHITE GLOSS (010)	Qty EACH
	SCA003 FIXED PIN END CAP SCS113 GREY				
	Part	1313352	Finish	GREY (036)	Qty EACH
	SCA004 SPRING LOADED END CAP SCS113 BLACK				
	Part	1313353	Finish	BLACK (034)	Qty EACH
	SCA005 SPRING LOADED END CAP SCS113 WHITE				
	Part	1313354	Finish	PEARL WHITE GLOSS (010)	Qty EACH
	SCA006 SPRING LOADED END CAP SCS113 GREY				
	Part	1313355	Finish	GREY (036)	Qty EACH

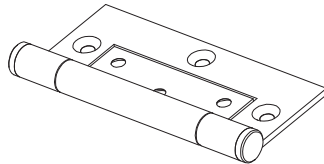
6. Hardware & Components

Accessories



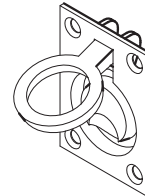
NO39 UNIVERSAL ALUMINIUM HINGE CLEAR ANO 100 x 70 x 2.5mm

PART	1364069
FINISH	10UM CLEAR ANODISED (002)
QTY	EACH



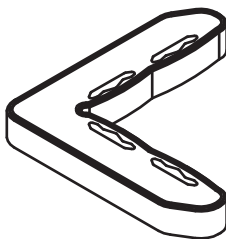
A125 ALUMINIUM BIFOLD HINGE 100mm x 35mm

PART	1374010
FINISH	10UM CLEAR ANODISED (002)
QTY	EACH



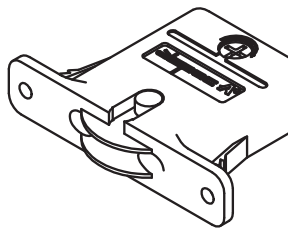
FINGER PULL FOR HAWKESBURY S.S.

PART	1378960
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



FS3C-A CORNER FOR FS3 22 x 9mm FRAME

PART	1324003
FINISH	BLACK (034) NOT SPECIFIED (099)
QTY	EACH



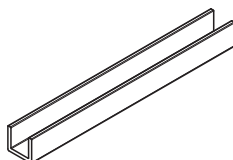
PEC OFFSET SECURITY DOOR ROLLER SS 40kg

PART	1311905
FINISH	BLACK (034)
QTY	EACH



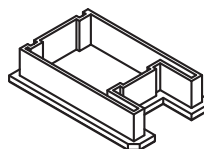
NYLON BUTTONS (CANOE CLIPS)

PART	1311063
FINISH	PEARL WHITE GLOSS (010) NOT SPECIFIED (099)
QTY	EACH



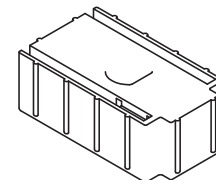
94P PLASTIC INSERT - 6M

PART	1313333
FINISH	BLACK (034)
QTY	EACH



SCA007 STILE END CAP

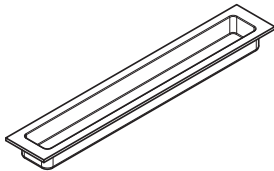
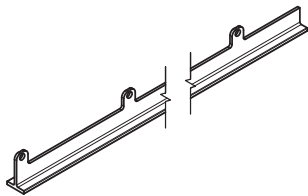
PART	1313347
FINISH	PEARL WHITE GLOSS (010) BLACK (034)
QTY	BAG



SCS CITYSCAPE END CAP x 1

PART	1313019
FINISH	BLACK (034)
QTY	EACH

Accessories

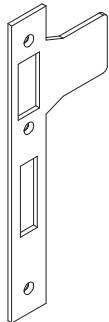


Pack Contains:
1x 73mm Lever Rod
1x Extended Snib Leaver
2x 8g x 2" CSK SS Screws

SCS214 CITYSCAPE TILT BAR x 2.13m	
PART	1634214
FINISH	MILL (001) PEARL WHITE GLOSS (010) SATIN BLACK (059)
QTY	EACH

FLUSH PULL 170 x 38mm SC	
PART	1363022
FINISH	SATIN CHROME (094)
QTY	EACH

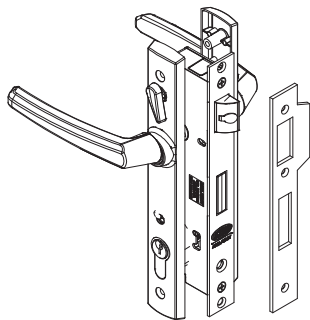
ELEGANCE FAT PACK 35-40mm THICK DOORS	
PART	1308081
FINISH	NOT SPECIFIED (099)
QTY	PACK



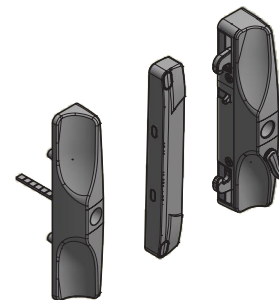
OPTIMUM 43mm DOUBLE SIDED STRIKE OPS002SS	
PART	1304656
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH

6. Hardware & Components

Handles & Strike



IMPORTANT NOTE
A MIDRAIL MUST BE USED
WITH THIS LOCK AS THE
HANDLES WILL INTERFERE
WITH LOUVRE OPERATION



KILLARA XTRA 2PT KIT INC OPTIMUM LOCK HANDLES & STRIKE

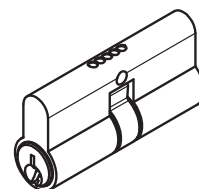
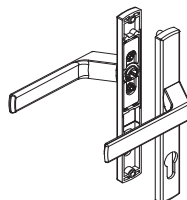
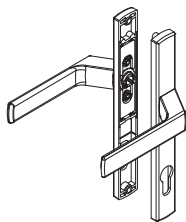
PART	1344016
FINISH	PEARL WHITE GLOSS (010) BLACK (034) SATIN CHROME (094)
QTY	EACH

ELEGANCE XC HINGED SEC DOOR LOCK ELXC

PART	1308090
FINISH	PEARL WHITE GLOSS (010) A.P.O. GREY SATIN (021) WHITE BIRCH GLOSS (027) BLACK (034) SILVER PAINT (031)
QTY	EACH

YV SLIM STD OUTER SLIM INNER NO CYL 25mm STRIKE

PART	1308691
FINISH	BLACK (034)
QTY	EACH



BRIO 288L3/2PBK 2PT LOCK & HANDLES & STRIKE KIT PBK BLK

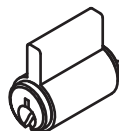
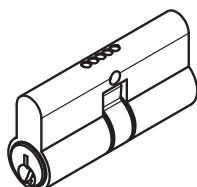
PART	1304216
FINISH	BLACK (034)
QTY	EACH

BRIO 288L3/2SS 2PT LOCK HANDLES STRIKE KIT SSS

PART	1304213
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH

ALSPEC LAZY CAM EURO PROFILE CYLINDER KEY A01

PART	1360161
FINISH	BRIGHT CHROME (0D4)
QTY	EACH



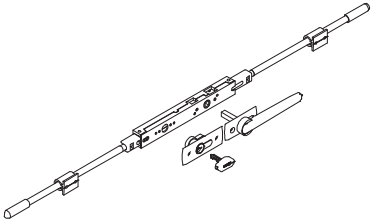
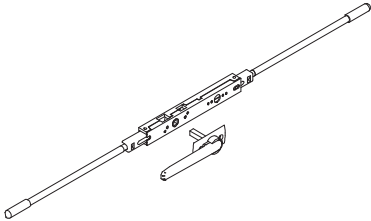
ALSPEC FIXED CAM 68mm EURO PROFILE CYLINDER KEY A01

PART	1360171
FINISH	SATIN CHROME (094)
QTY	EACH

YR 5 PIN CYLINDER KEY # A01 (801)

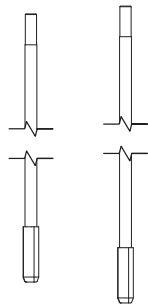
PART	1308671
FINISH	BRASS (039)
QTY	EACH

Flush-bolts



KILLARA TWIN BOLT NONLOCK 1 x 1m 1 x 1.3m RODS		
PART	STD TIPS - 1344003	SS TIPS - 1344018
FINISH	BLACK (034) SATIN CHROME (094)	BLACK (034)
QTY	EACH	

KILLARA TWINBOLT LOCKING INC 2 RODS 1x1m 1x1.3m		
PART	STD TIPS - 1344004	SS TIPS - 1344011
FINISH	BLACK (034) SATIN CHROME (094)	BLACK (034)
QTY	EACH	



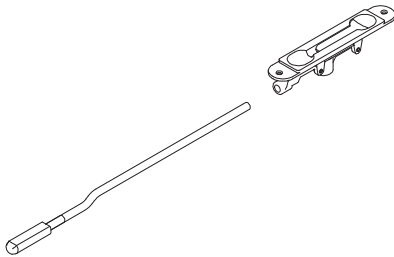
Suits Optimum door lock & Killara twin bolts

TWIN BOLT SCREW IN 1m & 2m RODS w POLYMER TIPS P330969	
PART	1345342
FINISH	NOT SPECIFIED (099)
QTY	SET

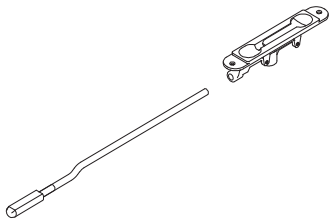


Required for wind pressures above 2kPa, and panels over 2700 high. Suits Killara twin bolt and Optimum locks only

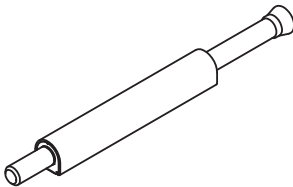
STAINLESS STEEL D ROD TIP 65mm x 1 P9731	
PART	1313100
FINISH	STAINLESS STEEL (0A6)
QTY	EACH



FLUSH BOLT OFFSET 600mm INC ROD GUIDES P3531D HAWK	
PART	1345052
FINISH	BLACK (034) SATIN CHROME (094)
QTY	EACH



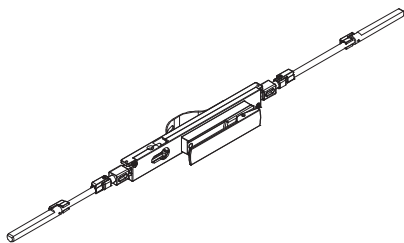
FLUSH BOLT OFFSET 300mm INC ROD GUIDES P3530D HAWK	
PART	1345050
FINISH	BLACK (034) SATIN CHROME (094)
QTY	EACH



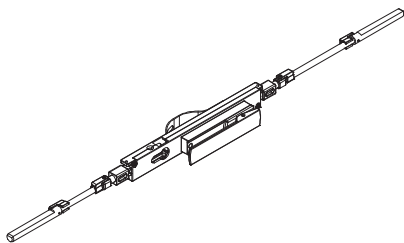
FFB-85S SURFACE MOUNT BARREL BOLT	
PART	1313325
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH

6. Hardware & Components

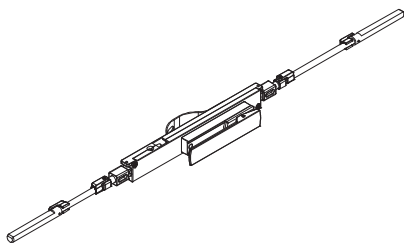
Brio Flush bolts



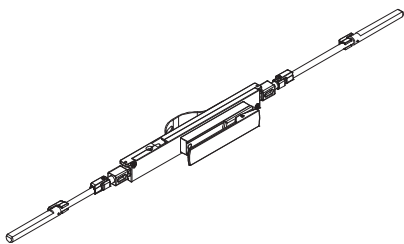
BRIO 286 DUAL POINT LOCK HANDLE 2.5m RODS SS TIP			
PART	1304112	1304100	1304108
FINISH	BLACK (034)	SATIN STAINLESS STEEL (0A6)	SATIN CHROME (094)
QTY	KIT		



BRIO 286 DUAL POINT LOCK HANDLE 3.5m RODS SS TIP			
PART	1304116	1304101	1304109
FINISH	BLACK (034)	SATIN STAINLESS STEEL (0A6)	SATIN CHROME (094)
QTY	KIT		

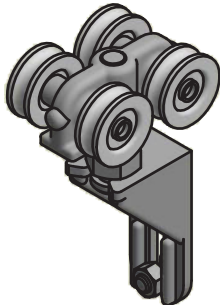


BRIO 286 DUAL POINT NON LOCKING HANDLE 2.5m RODS SS TIP			
PART	1304106	1304102	1304110
FINISH	BLACK (034)	SATIN STAINLESS STEEL (0A6)	SATIN CHROME (094)
QTY	KIT		

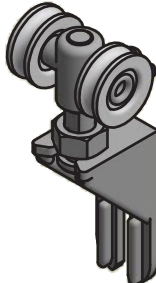


BRIO 286 DUAL POINT NON LOCKING HANDLE 3.5m RODS SS TIP			
PART	1304107	1304103	1304111
FINISH	BLACK (034)	SATIN STAINLESS STEEL (0A6)	SATIN CHROME (094)
QTY	KIT		

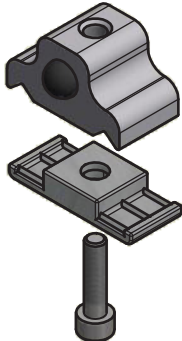
Hanger & guides



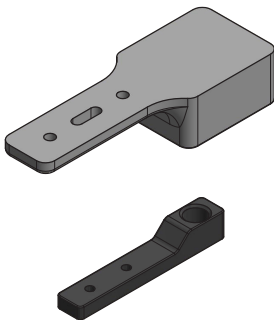
CITYSCAPE 4 WHEEL INTERMEDIATE HANGER BK52EN/4-A	
PART	1313323
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



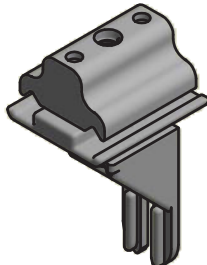
CITYSCAPE UPPER END HANGER BK52EN-A2	
PART	1313322
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



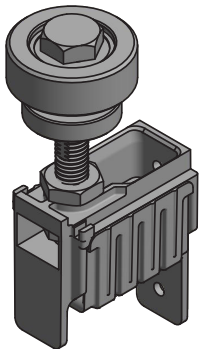
SCS HANGER STOP	
PART	1313006
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



SCS002 PIVOT ADAPTOR KIT	
PART	1313021
FINISH	NOT SPECIFIED (099)
QTY	EACH



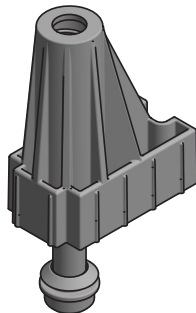
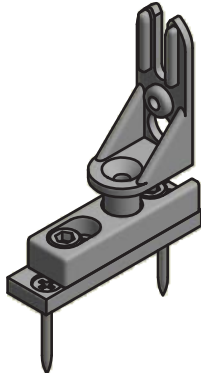
CITYSCAPE PIVOT SET 21EP-A	
PART	1313320
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



SCS001 SLIDING BLOCK KIT	
PART	1313020
FINISH	NOT SPECIFIED (099)
QTY	BAG



CITYSCAPE LOWER END GUIDE BK21ER-A	
PART	1313321
FINISH	SATIN S/LESS STEEL (0A6)
QTY	EACH



6. Hardware & Components

Silicone



100% NEUTRAL CURE SILICONE

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



100% MATTE NEUTRAL CURE SILICONE

- 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.

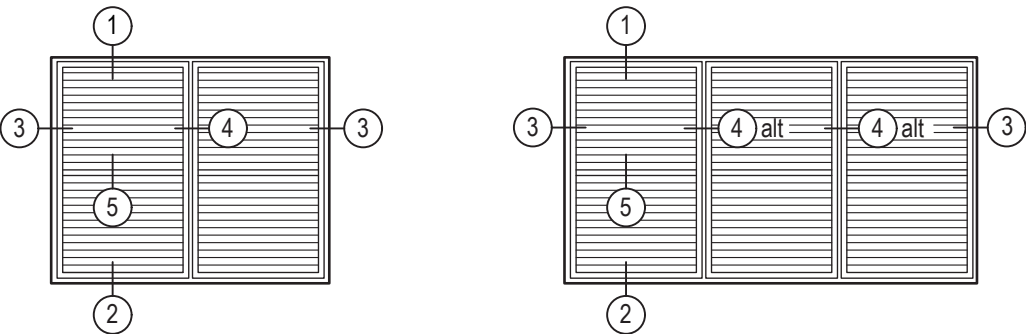
6. Hardware & Components

Silicone Product Codes

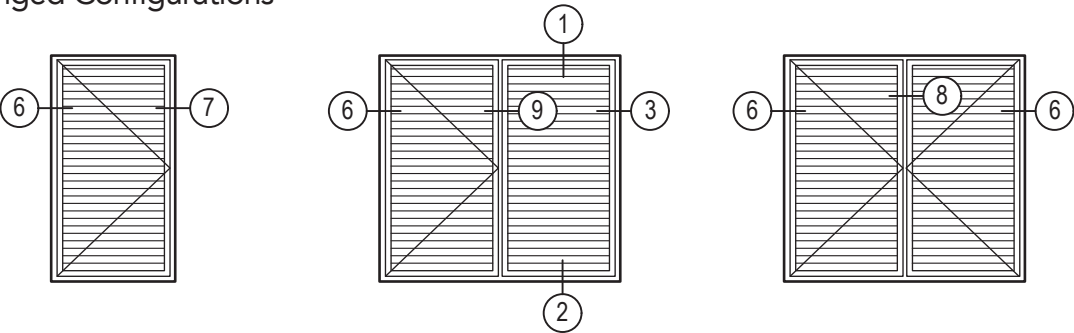
Product Category	Item No.	Alspec Part No. Code	Description	Finish	Pack
ALSPEC 100%	1	1386113	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	2	1386114	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	ALUMINIUM	CARTRIDGE
	3	1386105	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	BLACK	CARTRIDGE
	4	1386140	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CAULFIELD GREEN	CARTRIDGE
	5	1386111	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	CLASSIC CREAM	CARTRIDGE
	6	1386108	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	GREY	CARTRIDGE
	7	1386138	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	MONUMENT	CARTRIDGE
	8	1386112	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	9	1386141	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	10	1386101	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	11	1386106	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WHITE	CARTRIDGE
	12	1386143	ALSPEC 100% NEUTRAL CURE SILICONE x 310g CAT	WOODLAND GREY	CARTRIDGE
ALSPEC 100% MATT	13	1386103	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	BLACK MATT	CARTRIDGE
	14	1386107	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	GREY MATT	CARTRIDGE
	15	1386144	ALSPEC 100% NEUTRAL CURE SILICONE x 420g CAT	WHITE MATT	CARTRIDGE
ALSPEC 20	16	1386115	ALSPEC 20 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
ALSPEC 41 CLADDING	17	1386159	ALSPEC 41 SILICONE x 400g CAT	BLACK MATT	CARTRIDGE
	18	1386117	ALSPEC 41 SILICONE x 600ml SAU	BLACK MATT	SAUSAGE
	19	1386158	ALSPEC 41 SILICONE x 400g CAT	LIGHT GREY MATT	CARTRIDGE
	20	1386118	ALSPEC 41 SILICONE x 600ml SAU	LIGHT GREY MATT	SAUSAGE
	21	1386157	ALSPEC 41 SILICONE x 400g CAT	WHITE MATT	CARTRIDGE
	22	1386145	ALSPEC 41 SILICONE x 600ml SAU	WHITE MATT	SAUSAGE
ALSPEC D60	23	1386121	ALSPEC D60 SILICONE x 310g CAT	BLACK	CARTRIDGE
	25	1386123	ALSPEC D60 SILICONE x 310g CAT	GREY	CARTRIDGE
	26	1386120	ALSPEC D60 SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	27	1386124	ALSPEC D60 SILICONE x 310g CAT	WHITE	CARTRIDGE
ALSPEC HYBRID PU	28	1386127	ALSPEC HYBRID PU x 480g CAT	BLACK	CARTRIDGE
	29	1386126	ALSPEC HYBRID PU x 600ml SAU	BLACK	SAUSAGE
	30	1386160	ALSPEC HYBRID PU x 480g CAT	GREY	CARTRIDGE
	31	1386128	ALSPEC HYBRID PU x 600ml SAU	GREY	SAUSAGE
	32	1386130	ALSPEC HYBRID PU x 480g CAT	WHITE	CARTRIDGE
	33	1386129	ALSPEC HYBRID PU x 600ml SAU	WHITE	SAUSAGE
ALSPEC WET AREA	34	1386137	ALSPEC WET AREA SILICONE x 310g CAT	ALMOND IVORY	CARTRIDGE
	35	1386139	ALSPEC WET AREA SILICONE x 310g CAT	BLACK	CARTRIDGE
	36	1386146	ALSPEC WET AREA SILICONE x 310g CAT	BLUESTONE	CARTRIDGE
	37	1386147	ALSPEC WET AREA SILICONE x 310g CAT	CHARCOAL	CARTRIDGE
	38	1386136	ALSPEC WET AREA SILICONE x 310g CAT	LIGHT GREY	CARTRIDGE
	39	1386148	ALSPEC WET AREA SILICONE x 310g CAT	MID GREY	CARTRIDGE
	40	1386149	ALSPEC WET AREA SILICONE x 310g CAT	OFF WHITE	CARTRIDGE
	41	1386150	ALSPEC WET AREA SILICONE x 310g CAT	PEWTER	CARTRIDGE
	42	1386151	ALSPEC WET AREA SILICONE x 310g CAT	STONE BEIGE	CARTRIDGE
	43	1386154	ALSPEC WET AREA SILICONE x 310g CAT	TAUPE	CARTRIDGE
	44	1386152	ALSPEC WET AREA SILICONE x 310g CAT	TILE GREY	CARTRIDGE
	45	1386133	ALSPEC WET AREA SILICONE x 310g CAT	TRANSLUCENT	CARTRIDGE
	46	1386153	ALSPEC WET AREA SILICONE x 310g CAT	TRAVERTINE	CARTRIDGE
	47	1386134	ALSPEC WET AREA SILICONE x 310g CAT	WHITE	CARTRIDGE

7. Typical Elevation

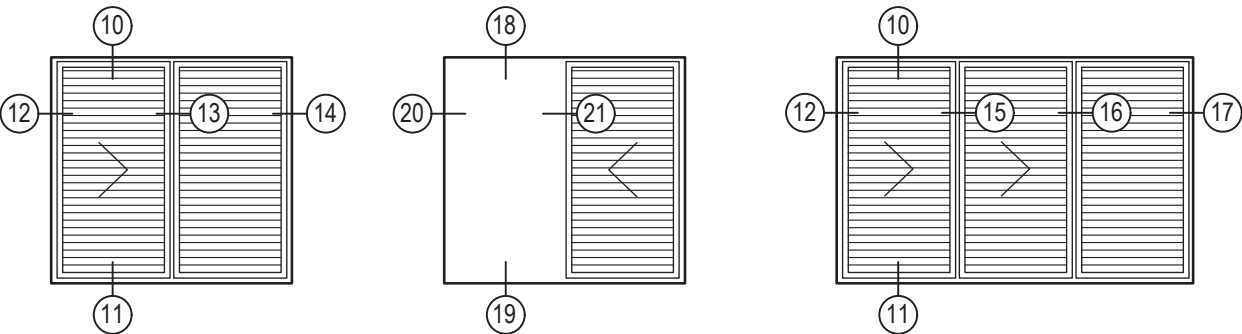
Fixed Configurations



Hinged Configurations

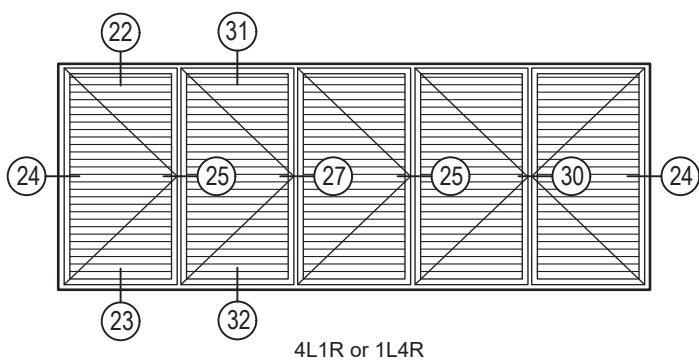
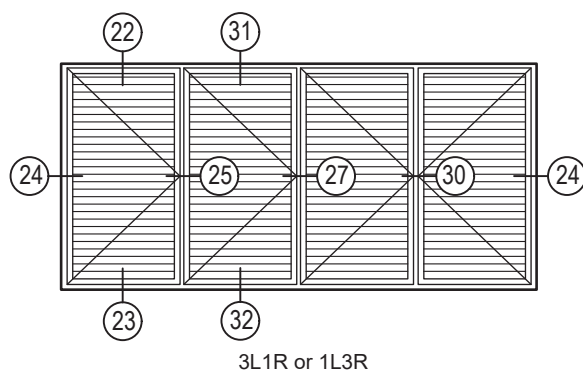
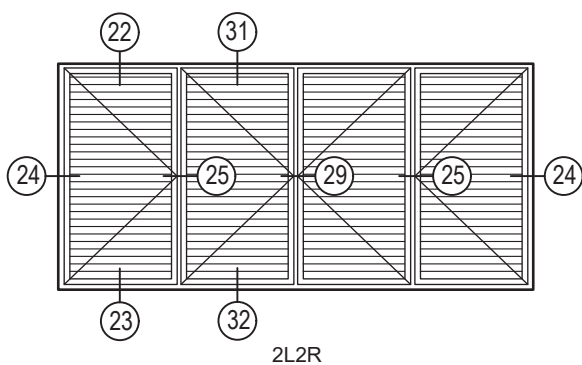
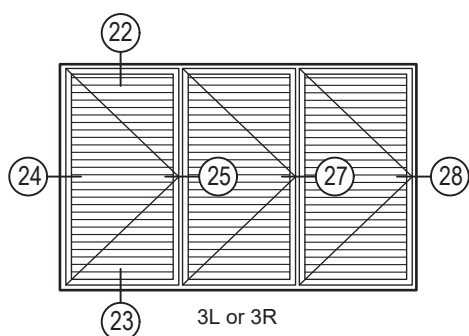
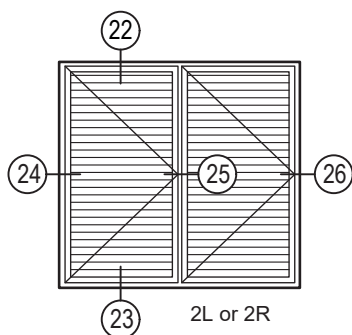


Sliding Configurations

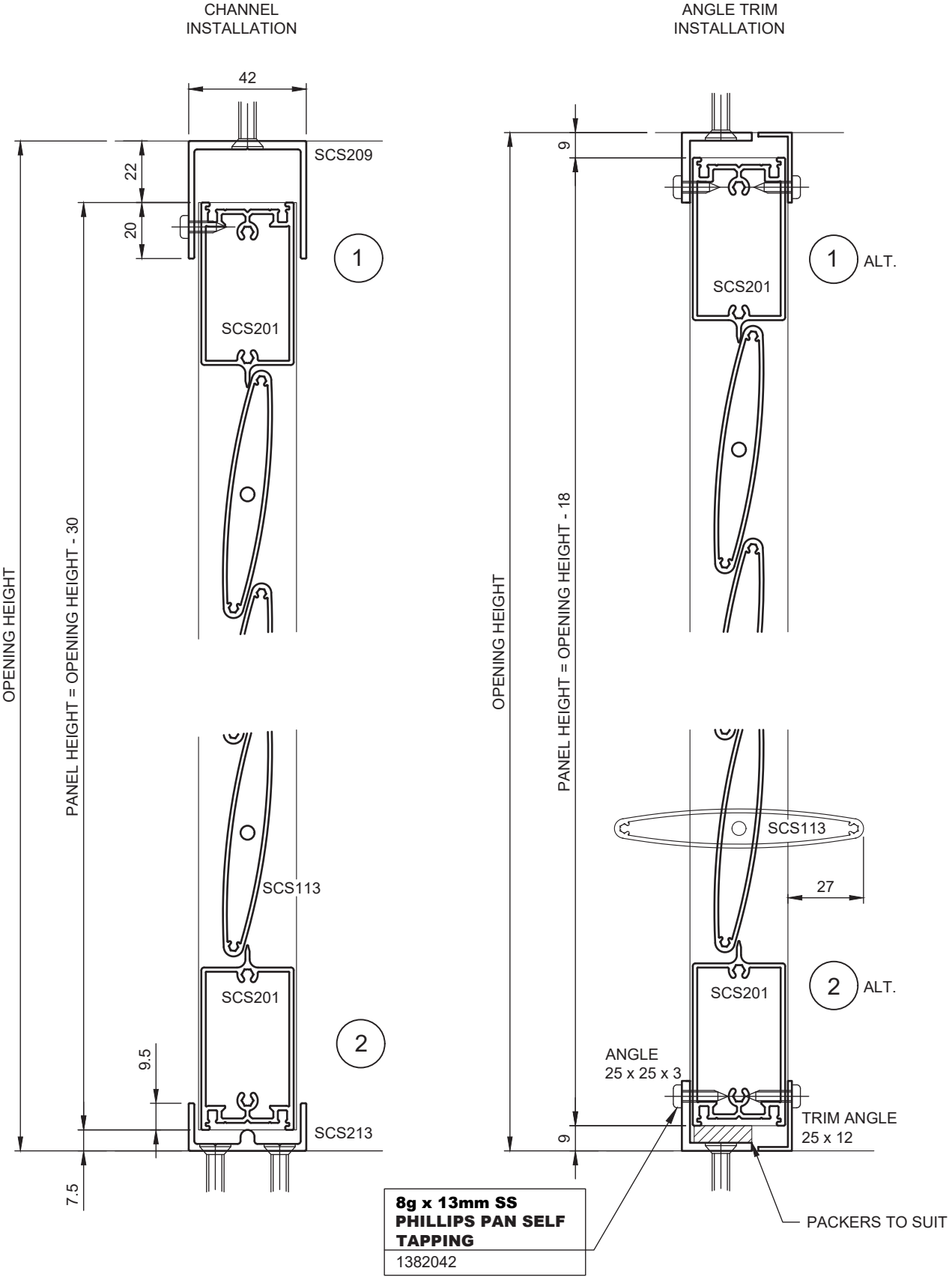


7. Typical Elevation

Bi-fold Configurations

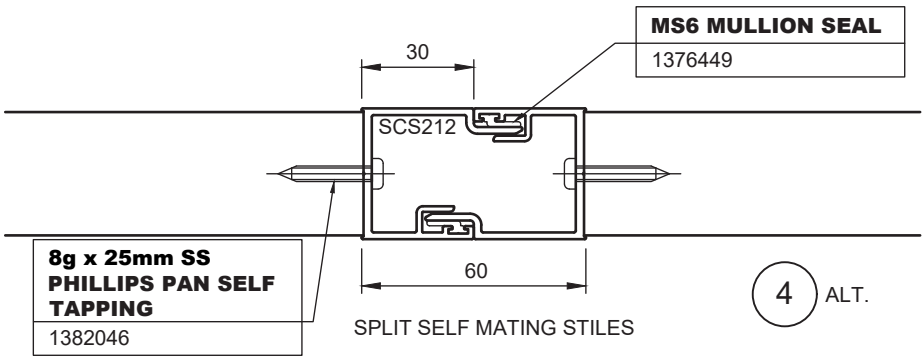
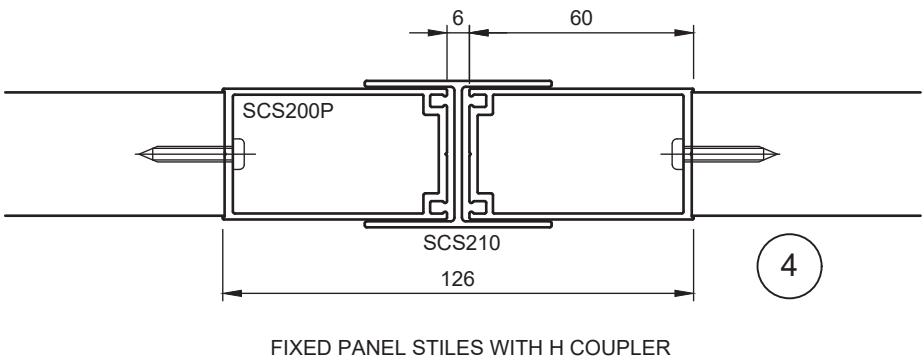
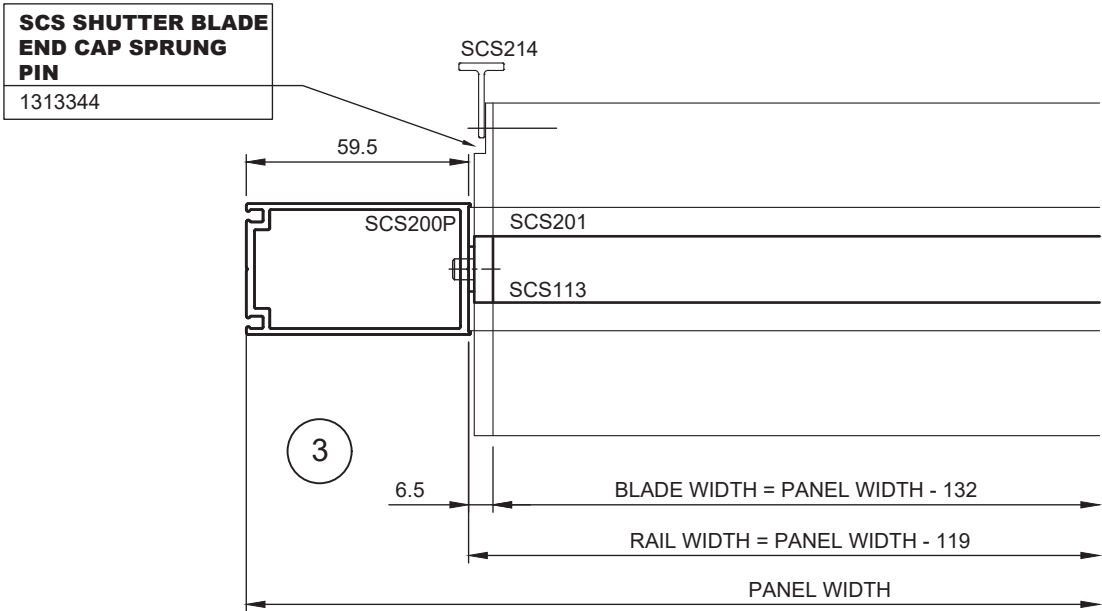


Fixed Panel Details - Vertical



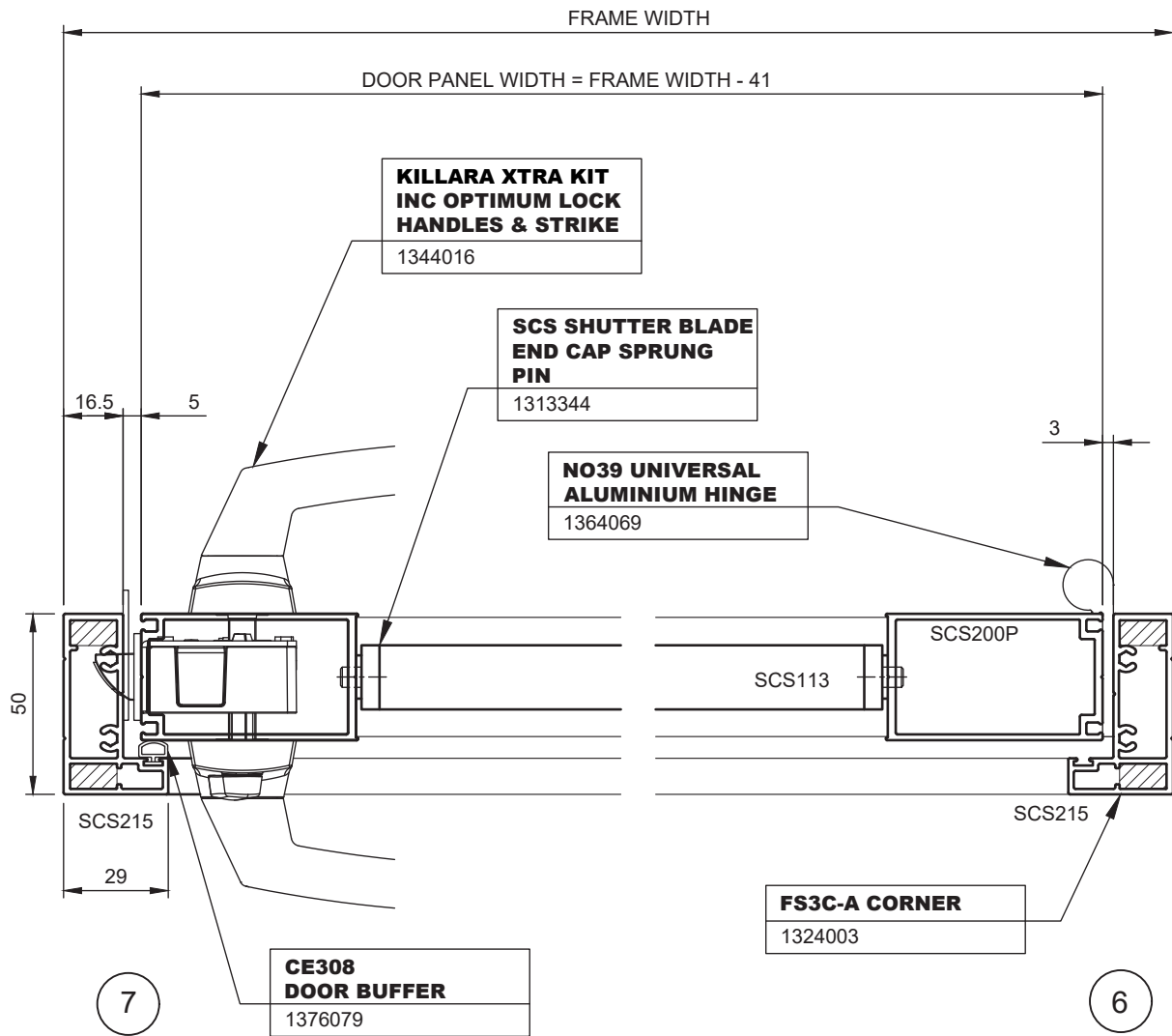
8. Typical Details

Louvre Panel Details



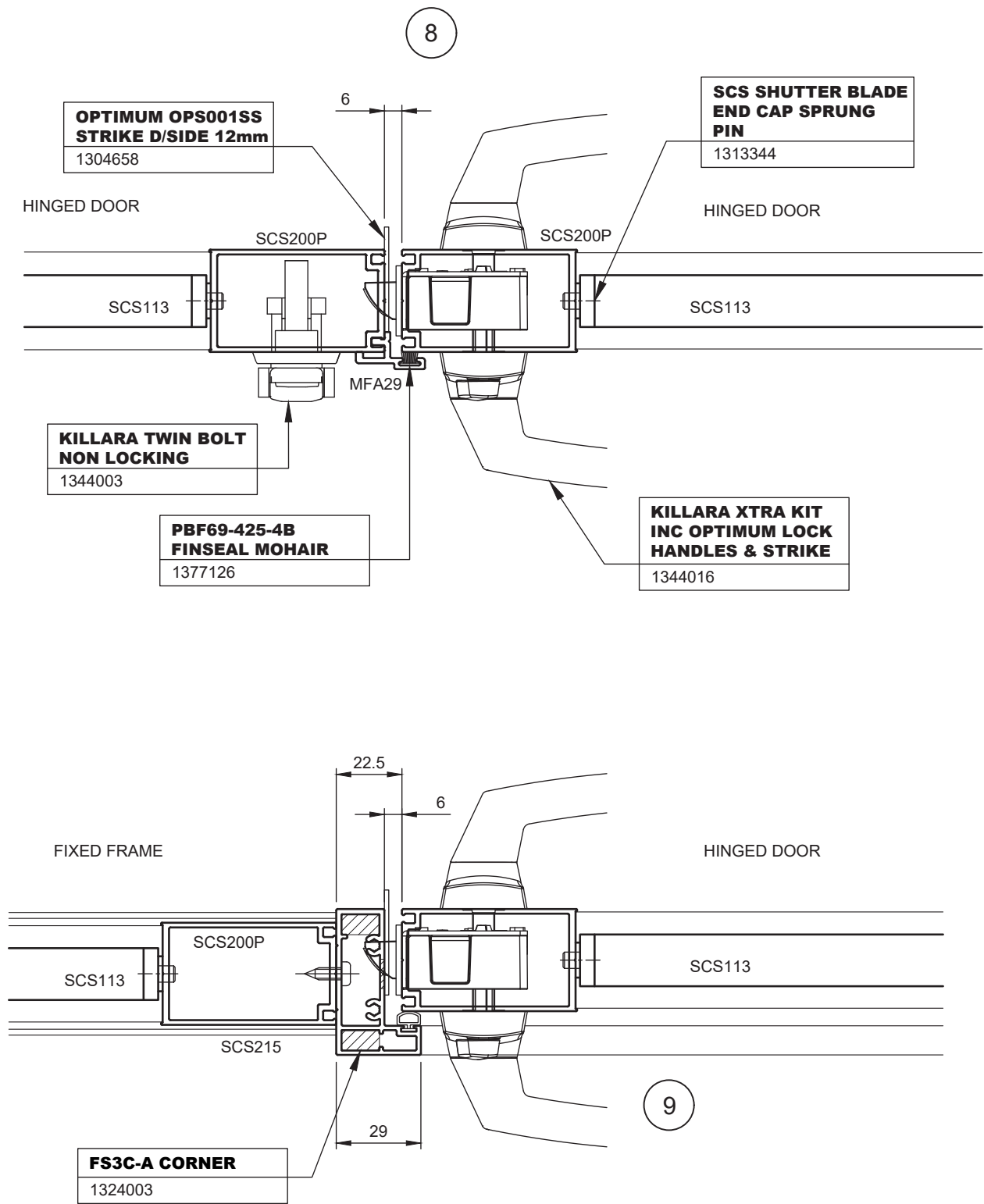
8. Typical Details

Hinged Door Details



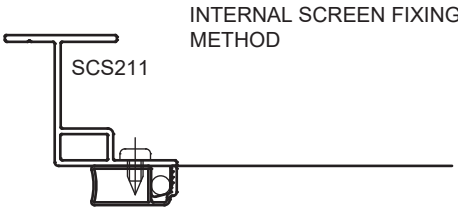
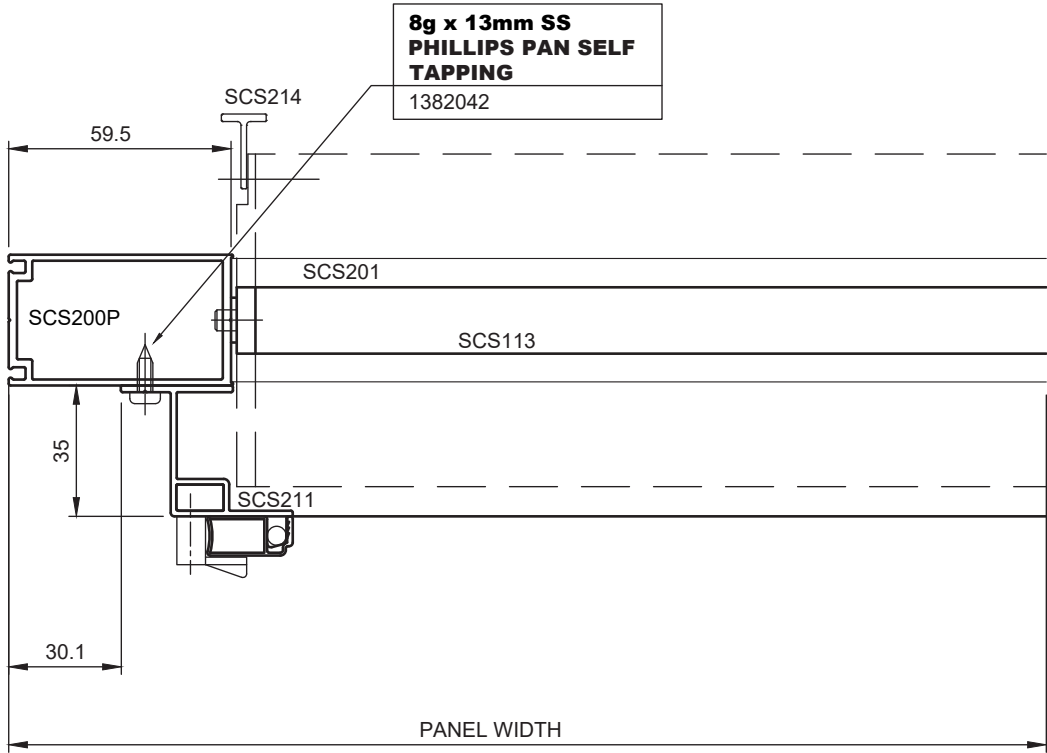
8. Typical Details

Hinged Meeting Panels



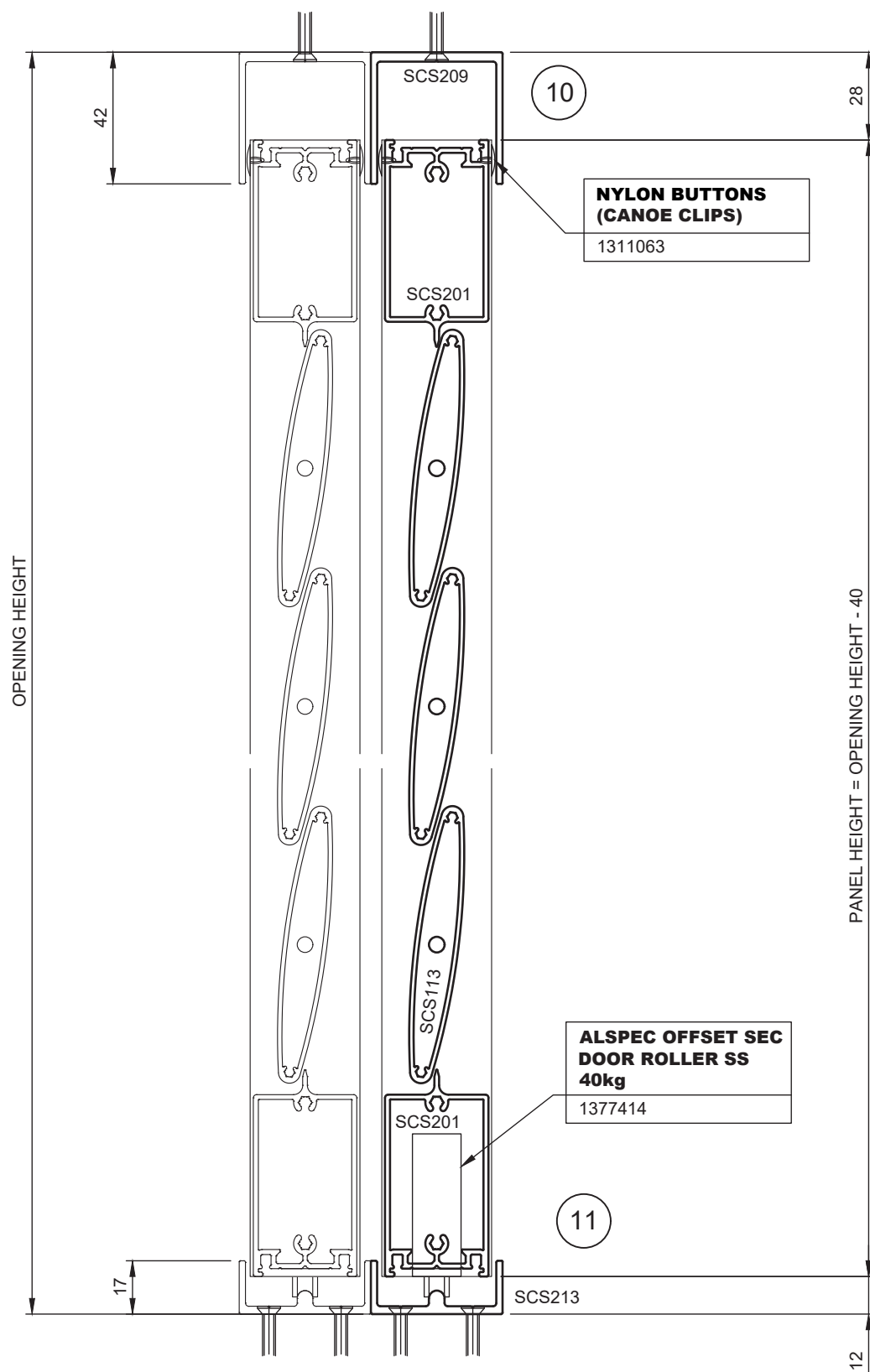
8. Typical Details

Fly Screen Build Out



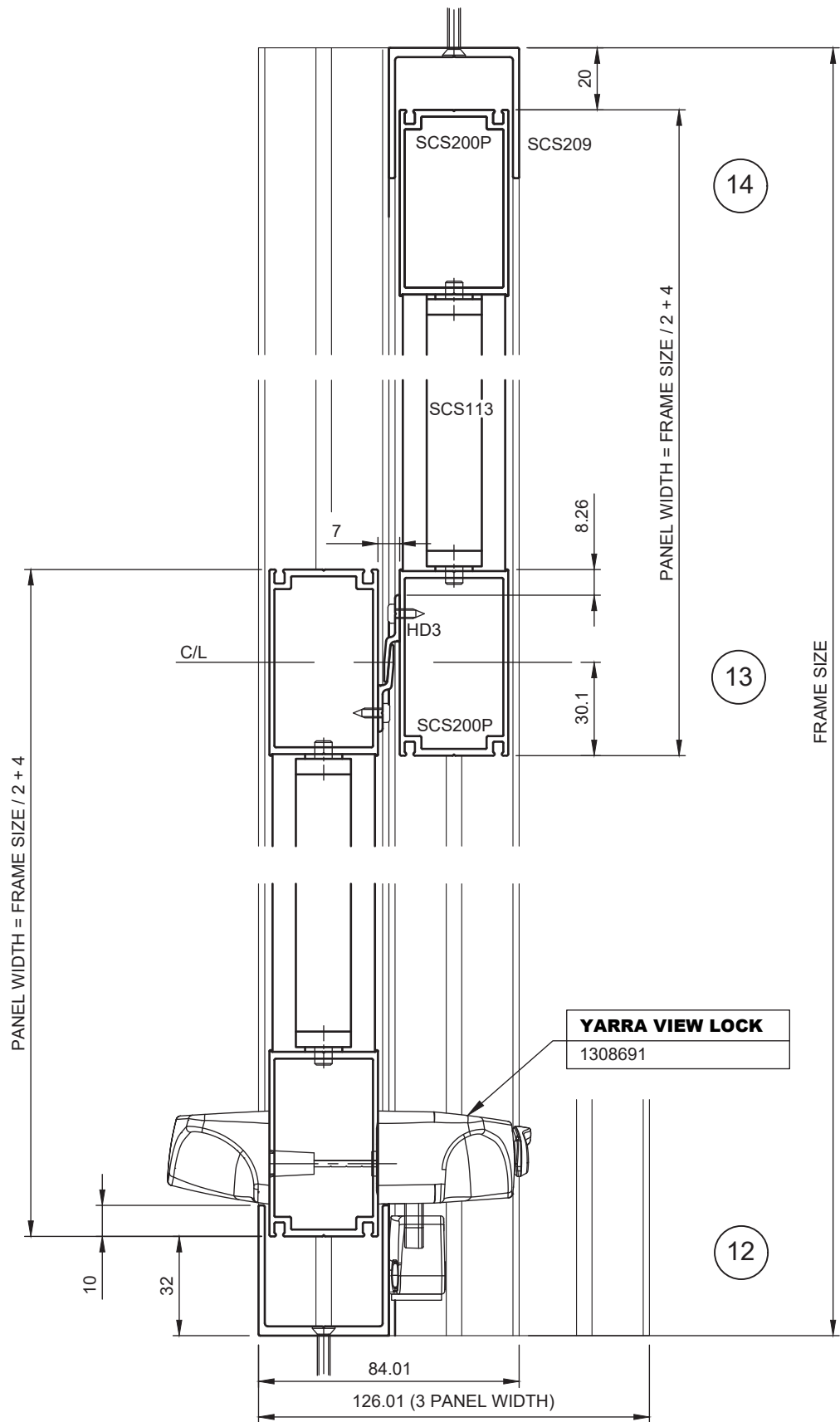
8. Typical Details

Vertical Details - Bottom Rolling



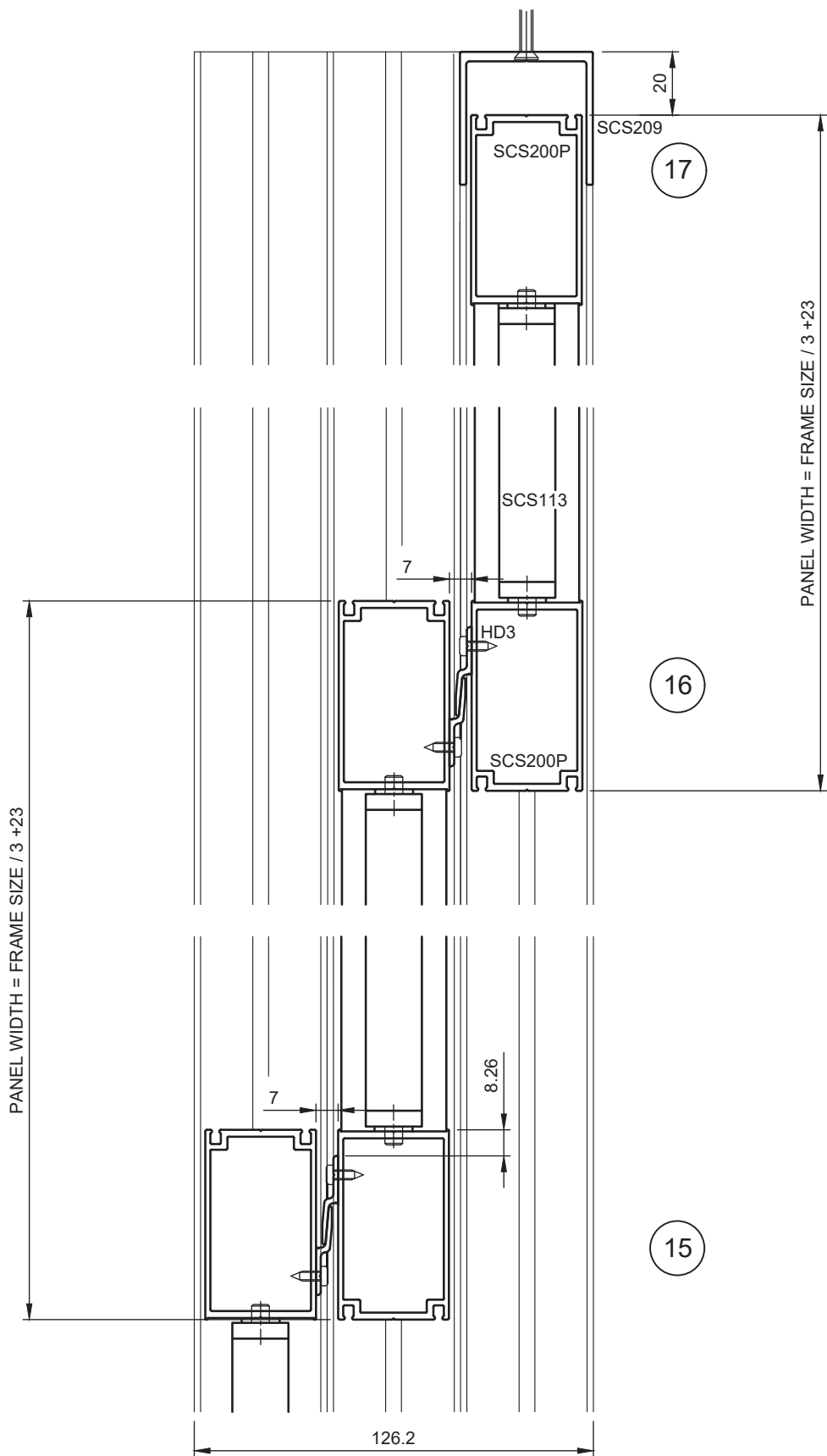
8. Typical Details

2 Panel Bottom Rolling



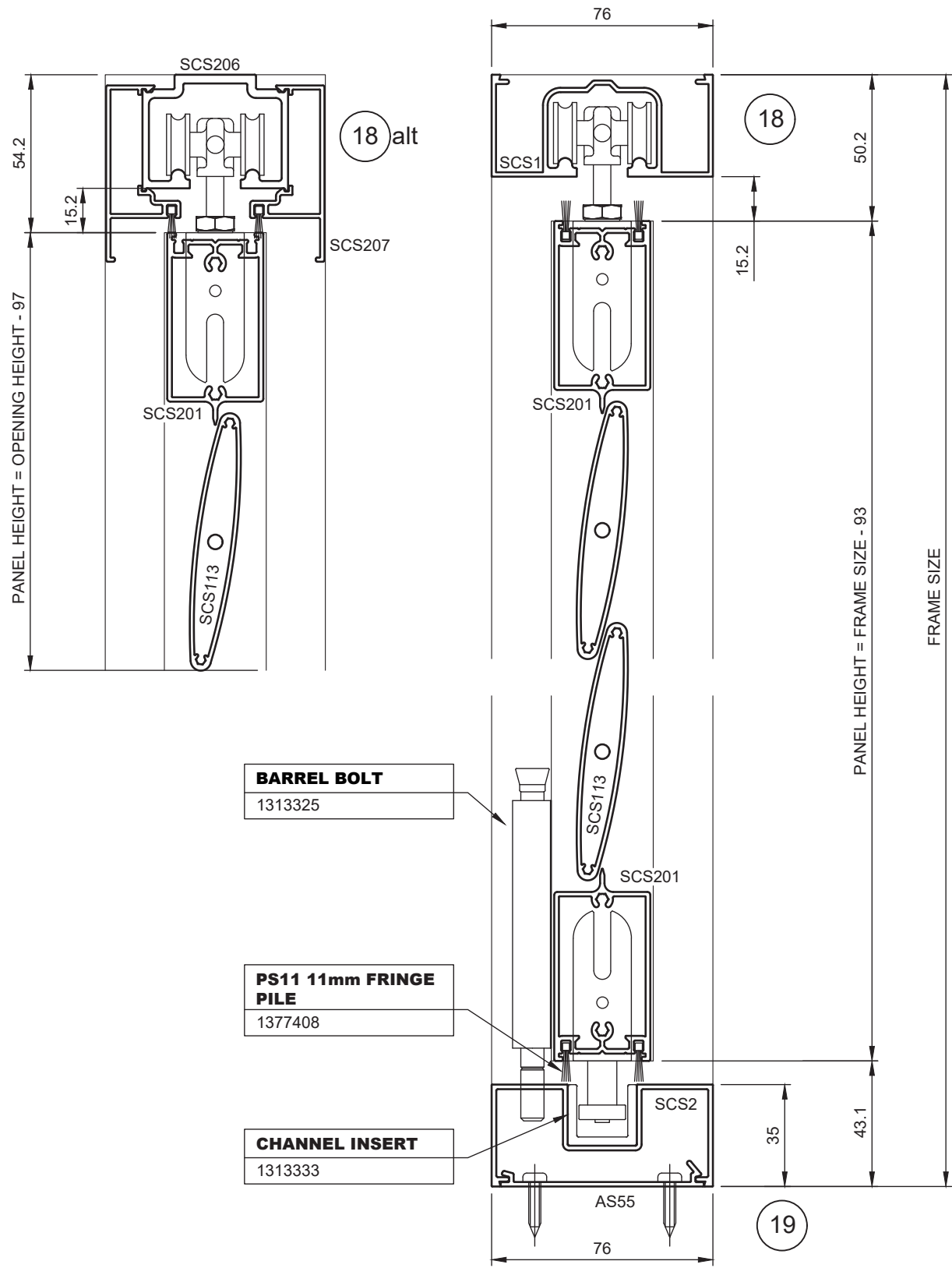
8. Typical Details

3 Panel Bottom Rolling



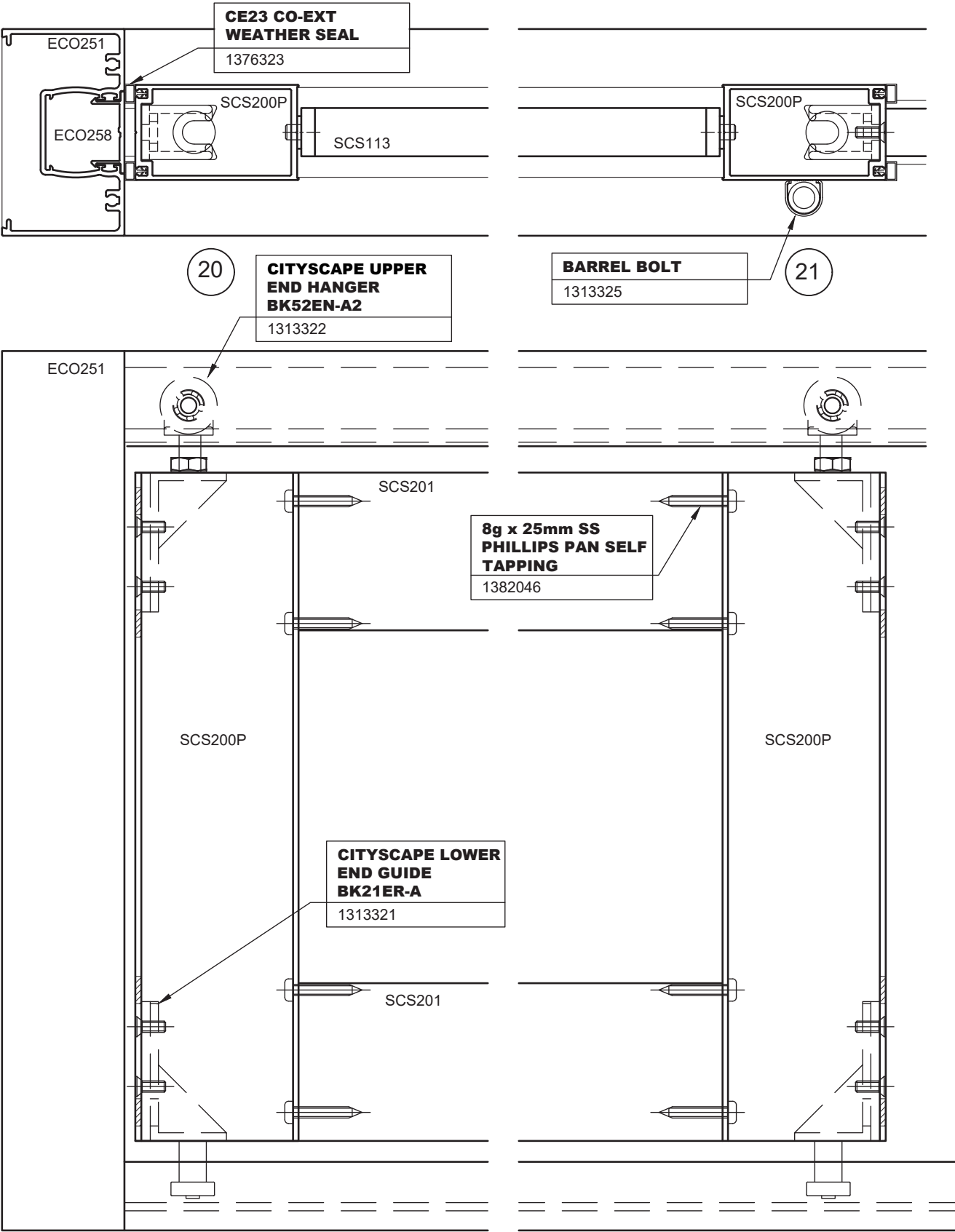
8. Typical Details

Sliding Panel Details - Top Rolling



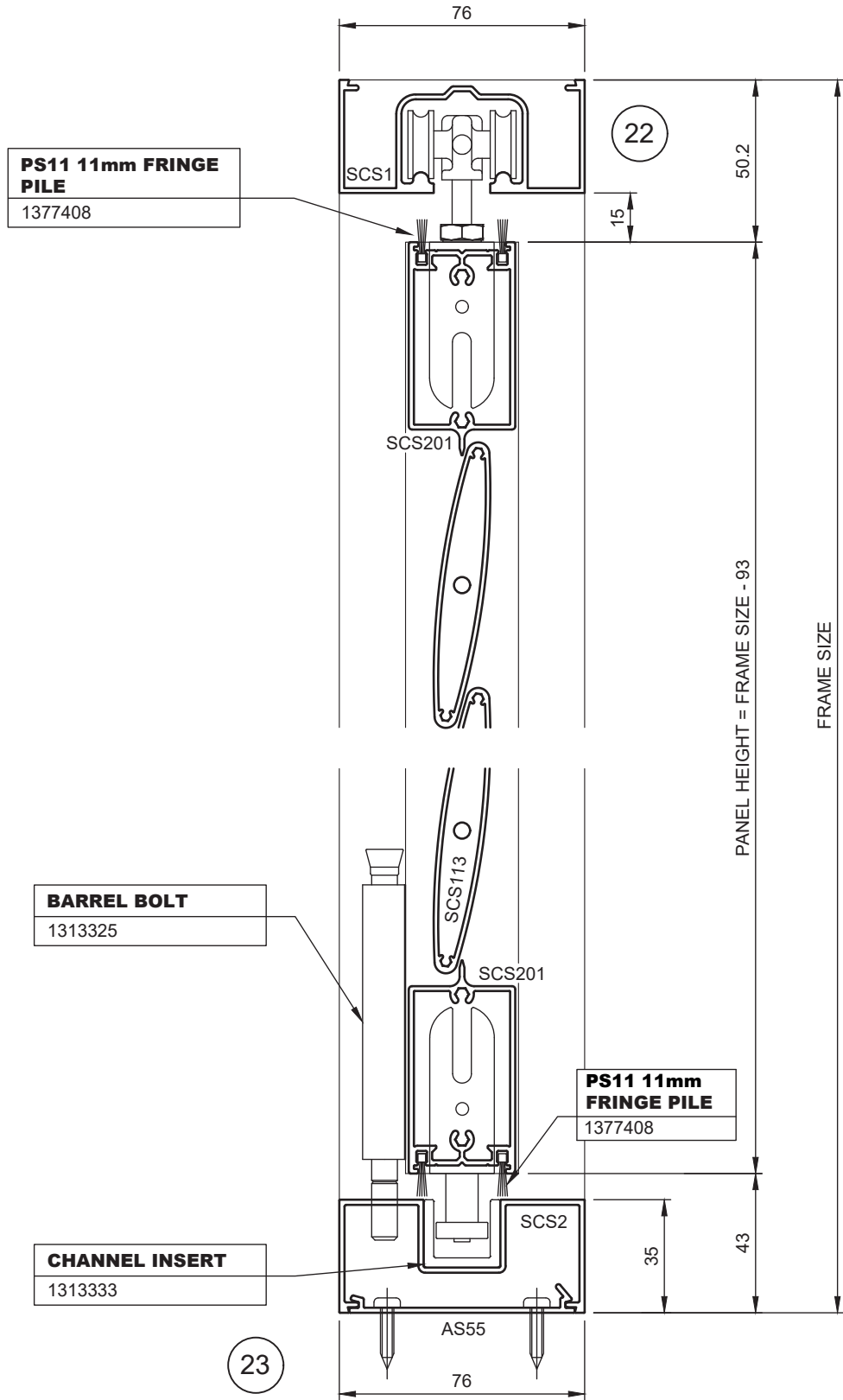
8. Typical Details

Jamb And Panel Details - Top Rolling



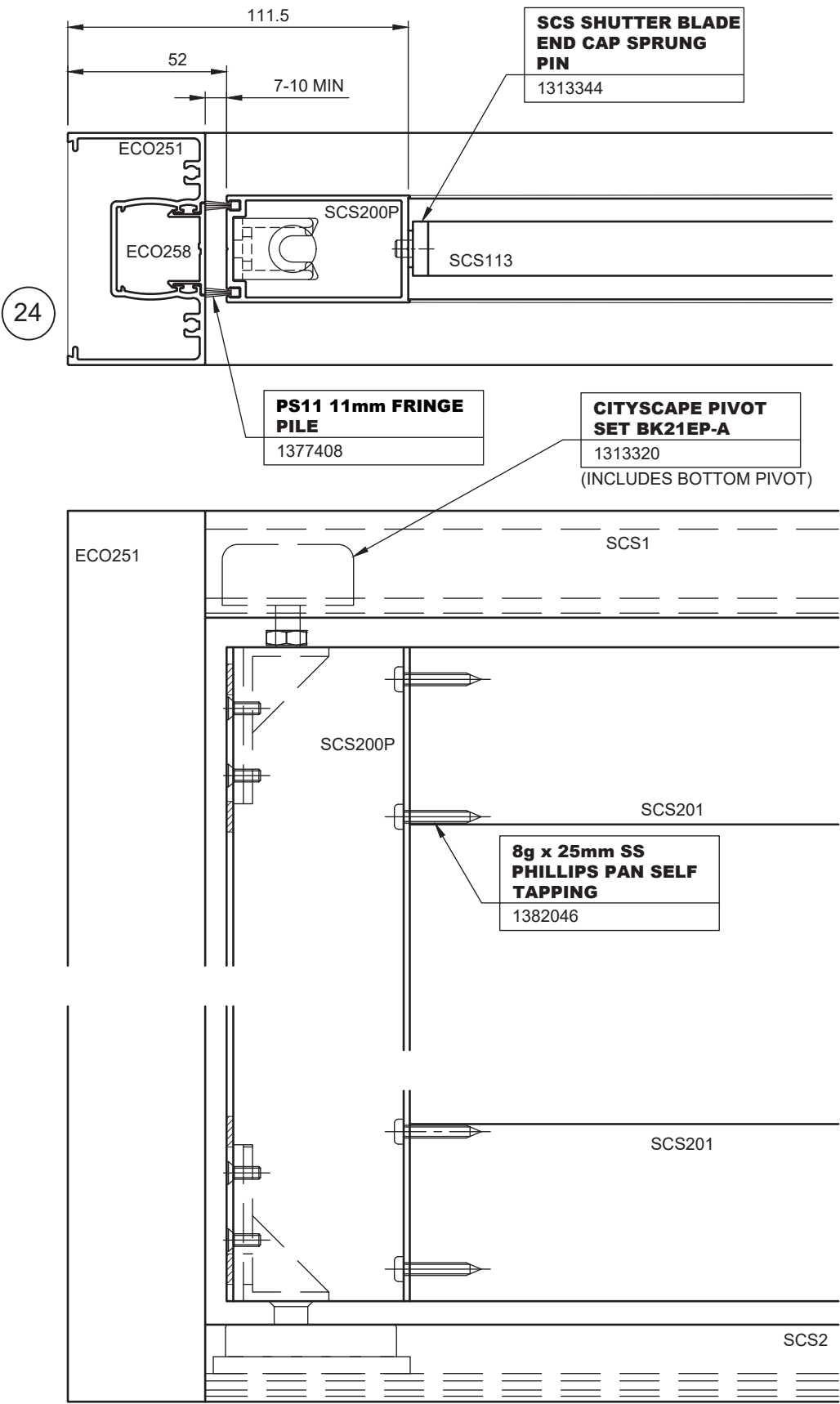
8. Typical Details

Vertical Details - Bi-fold Panels



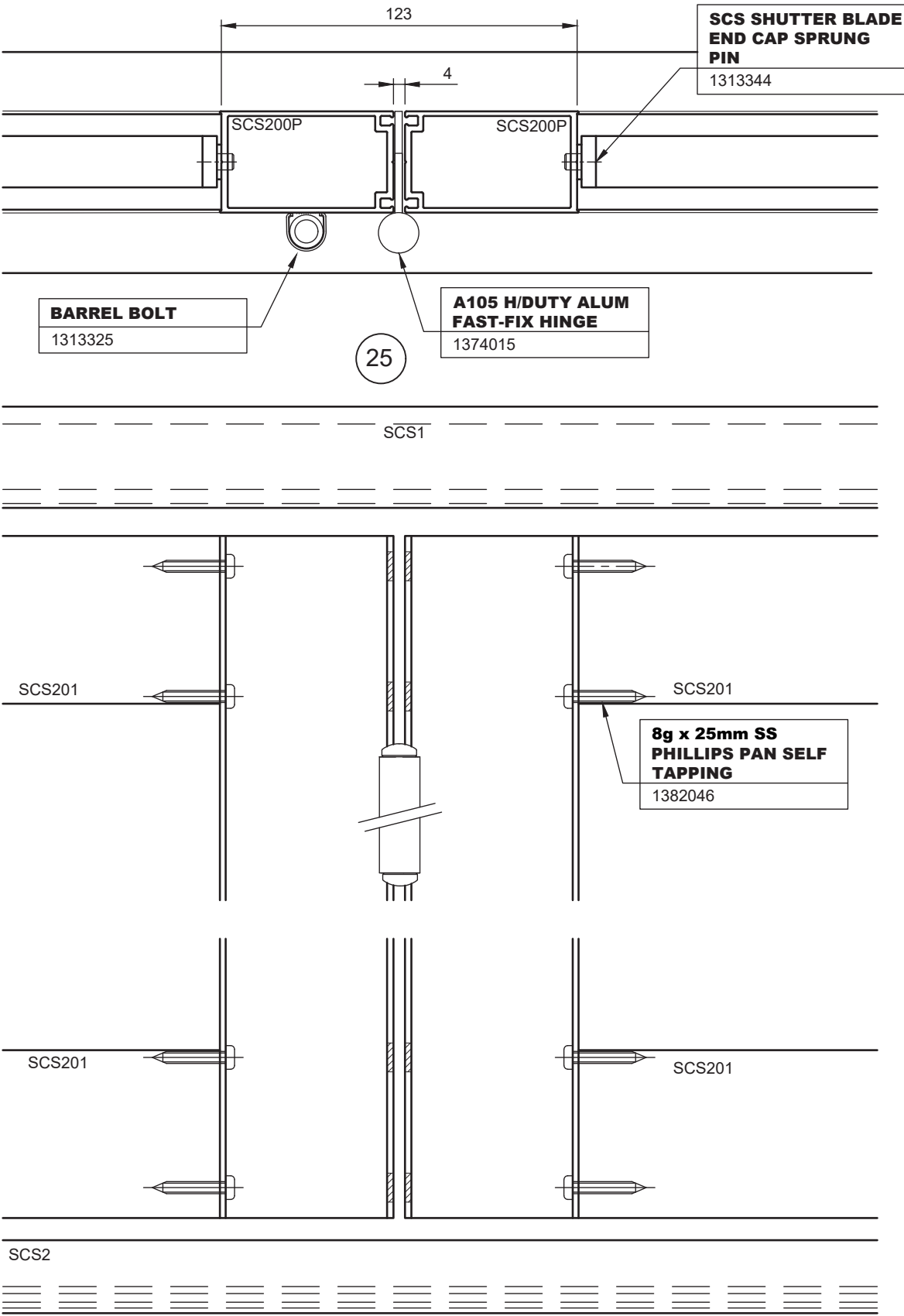
8. Typical Details

Bi-fold Details - End Pivot



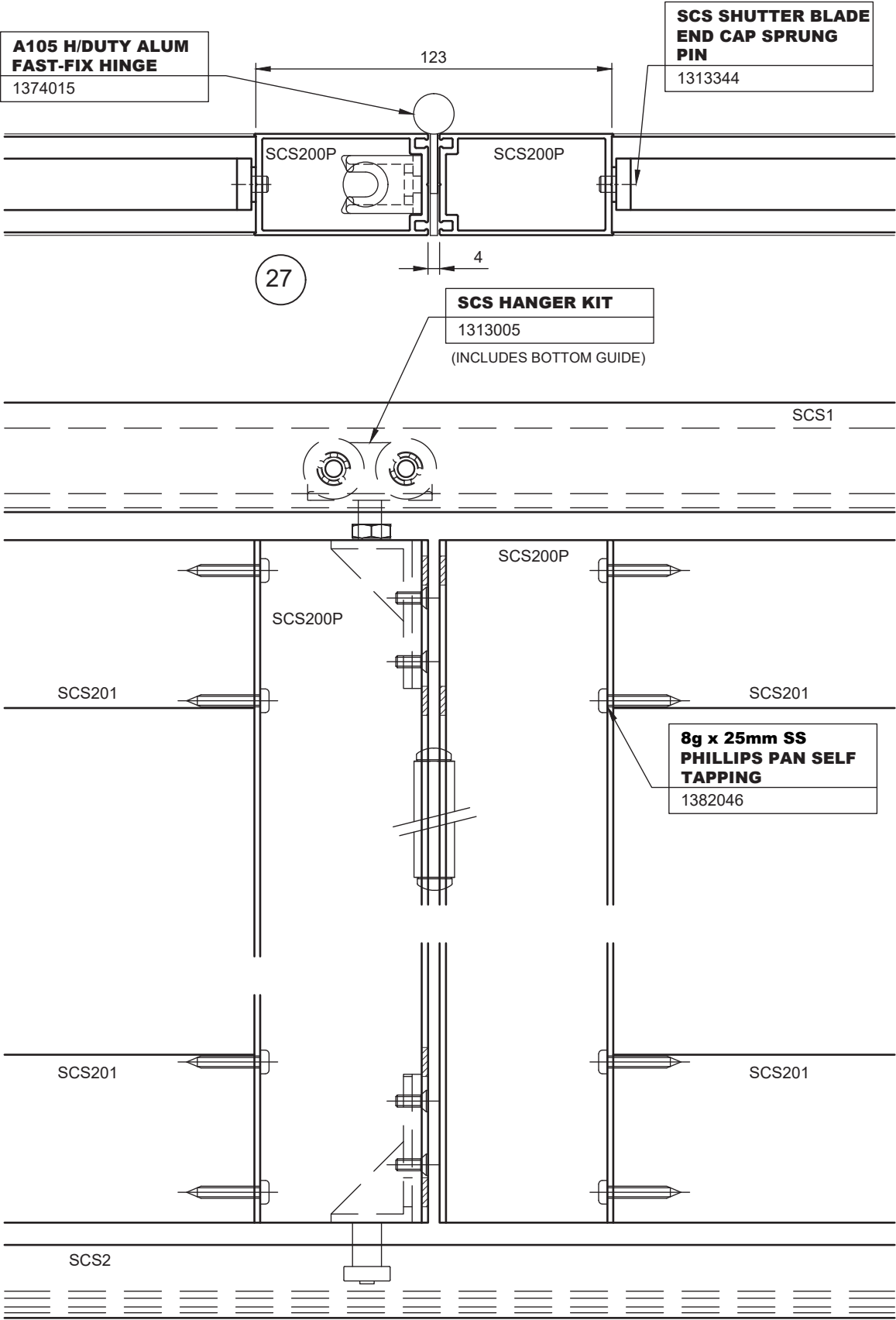
8. Typical Details

Bi-fold Details - Intermediate Hinge



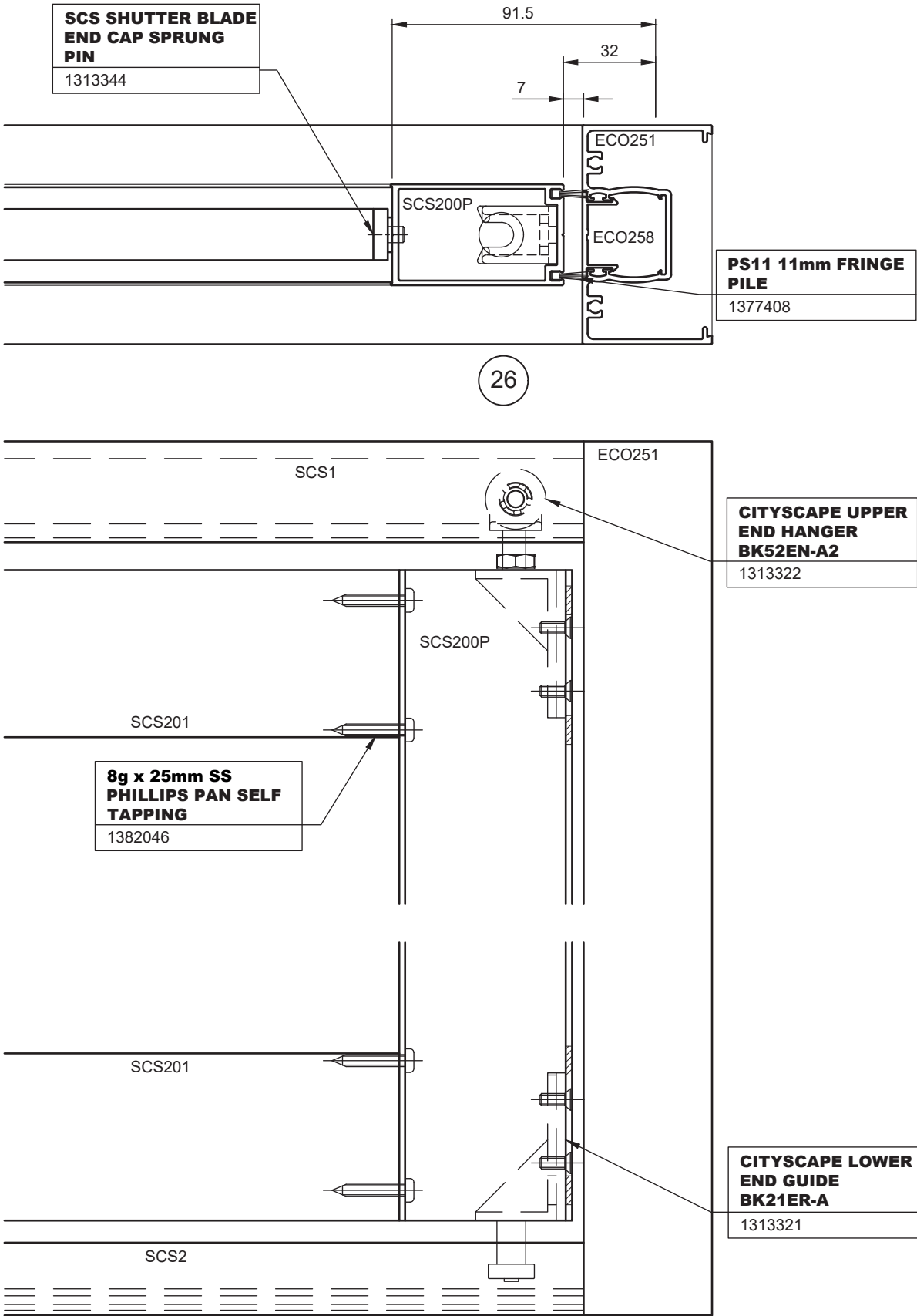
8. Typical Details

Bi-fold Details - Intermediate Hanger



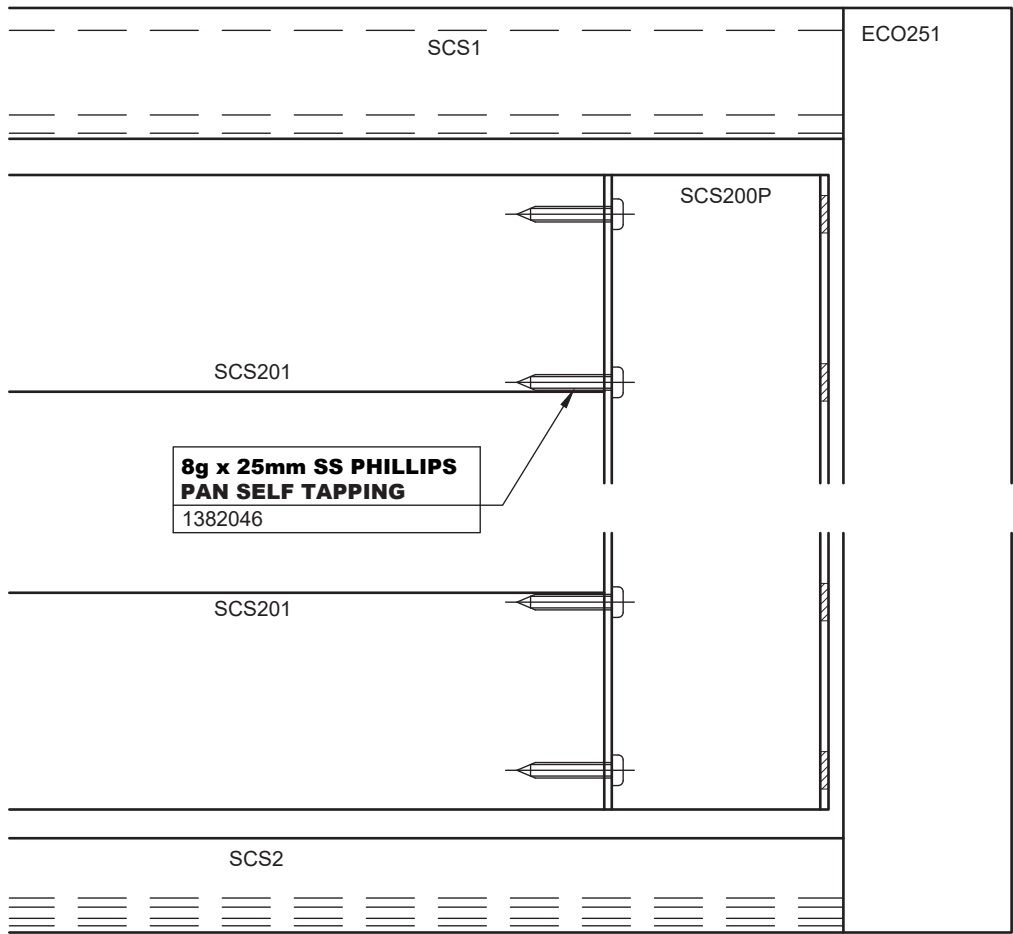
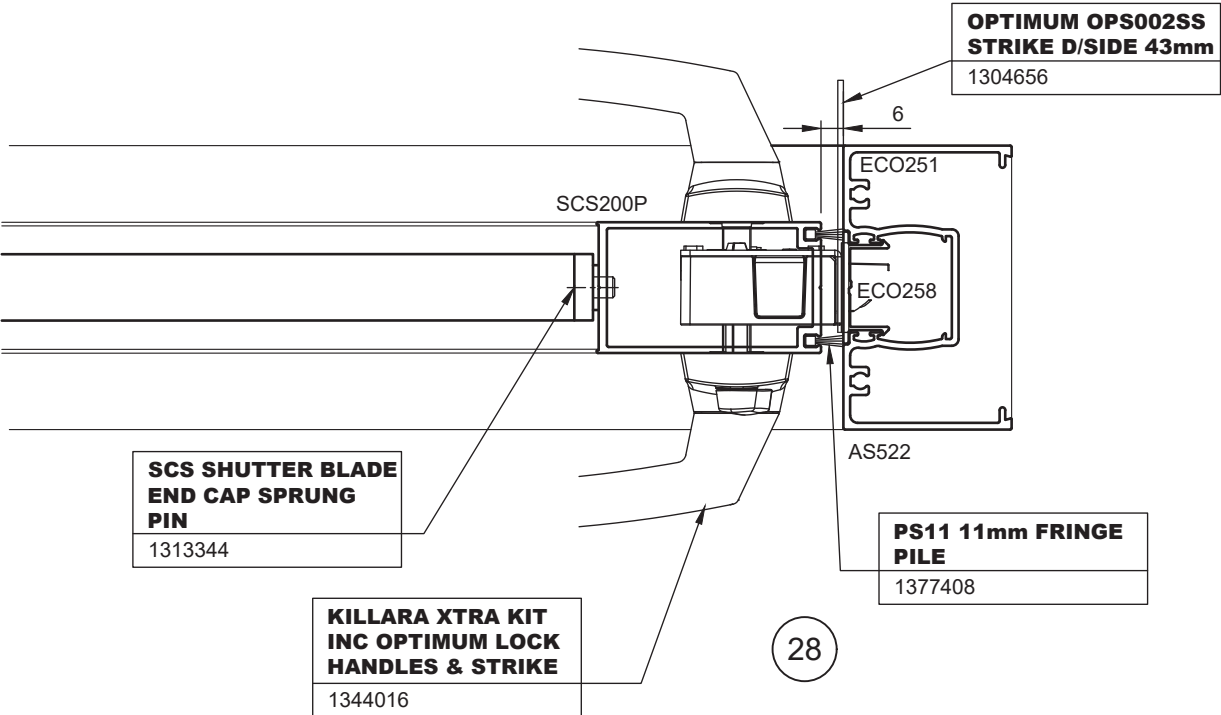
8. Typical Details

Bi-fold Details - End Hanger - Even Panel Configurations



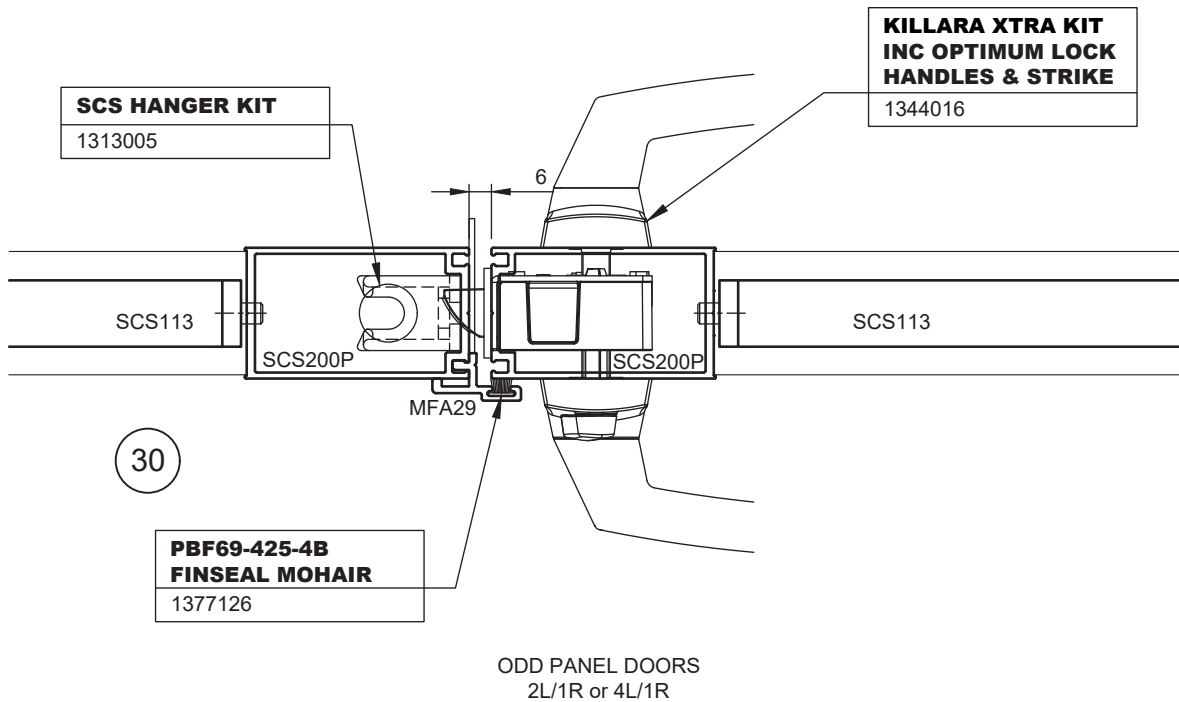
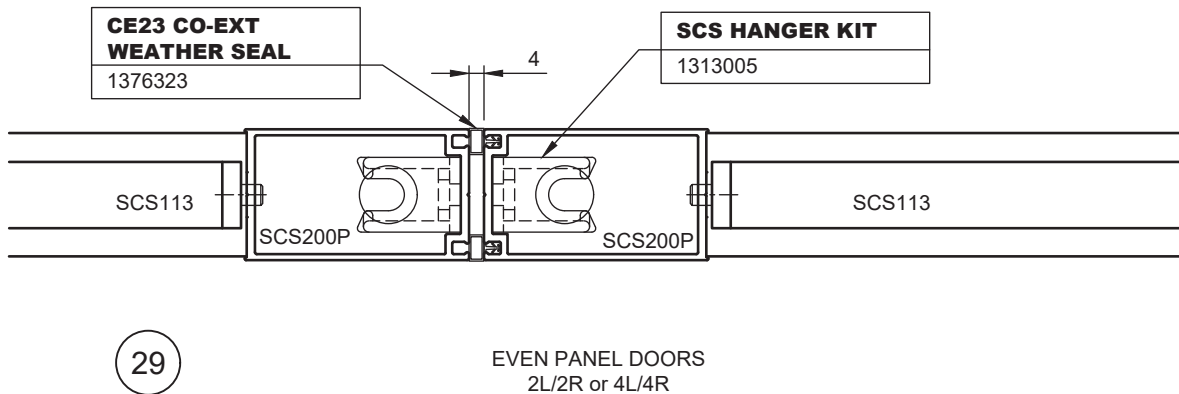
8. Typical Details

Bi-fold Details - Active Leaf - Odd Panel Configurations



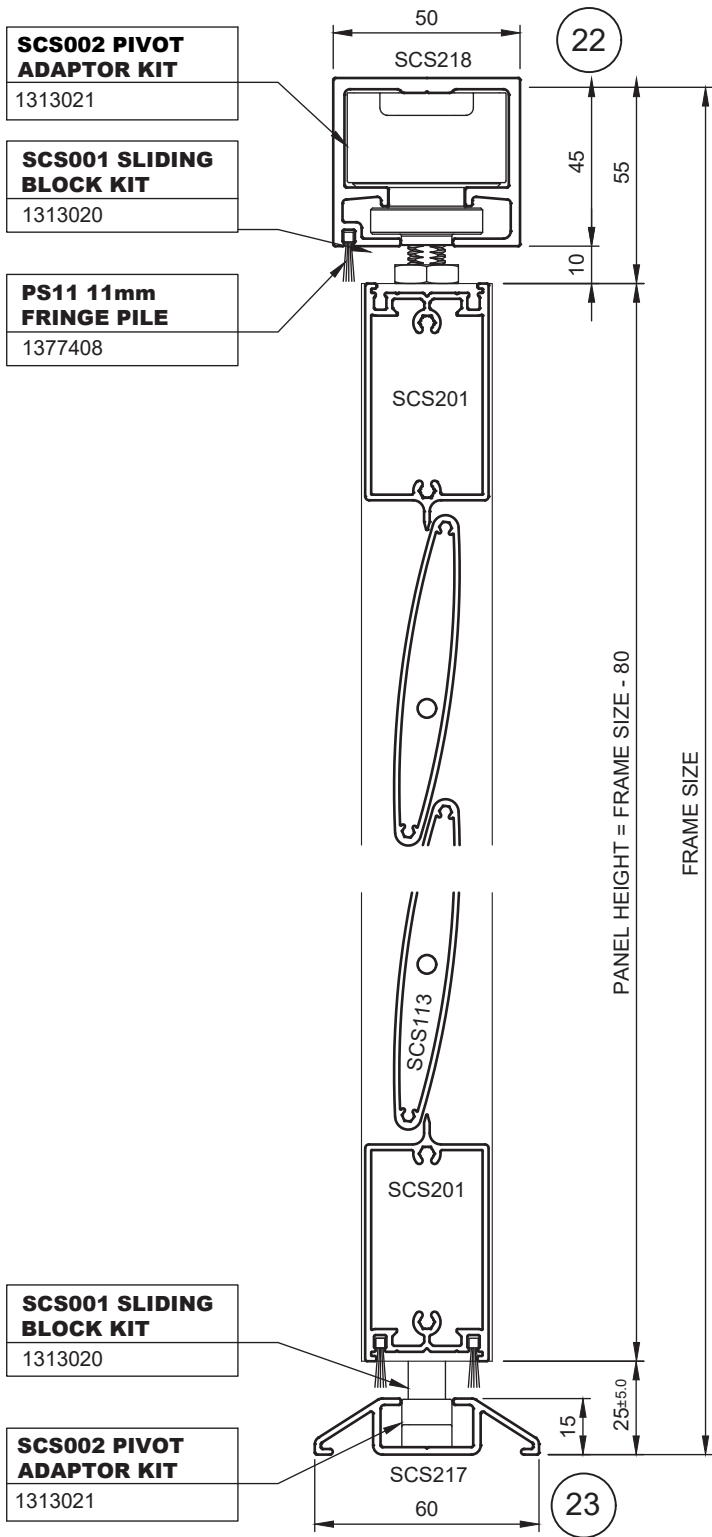
8. Typical Details

Bi-fold Meeting Panels



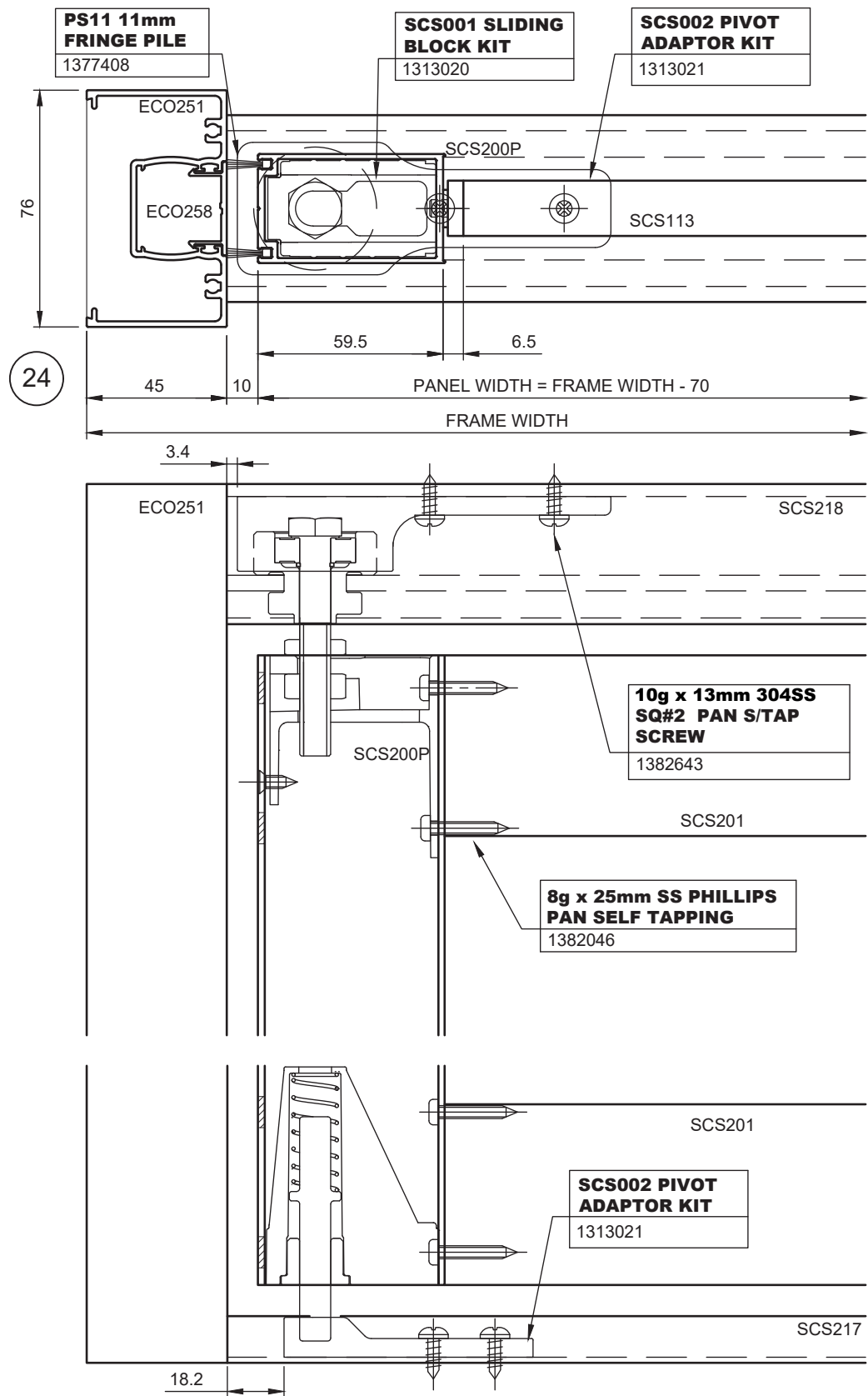
8. Typical Details

Vertical Details - Pivot Panel



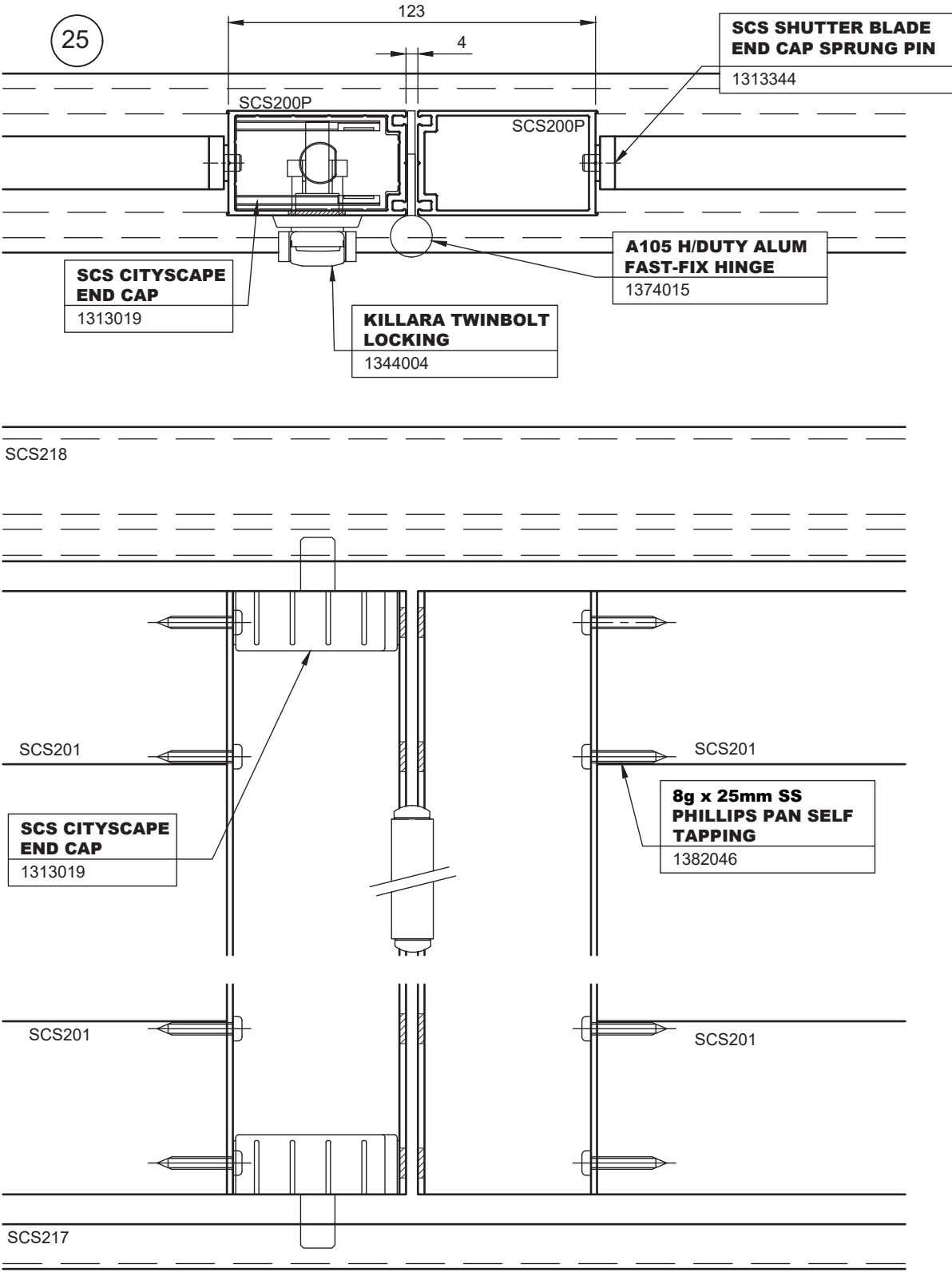
8. Typical Details

Horizontal Details - Bi-fold - Pivot Block Panel



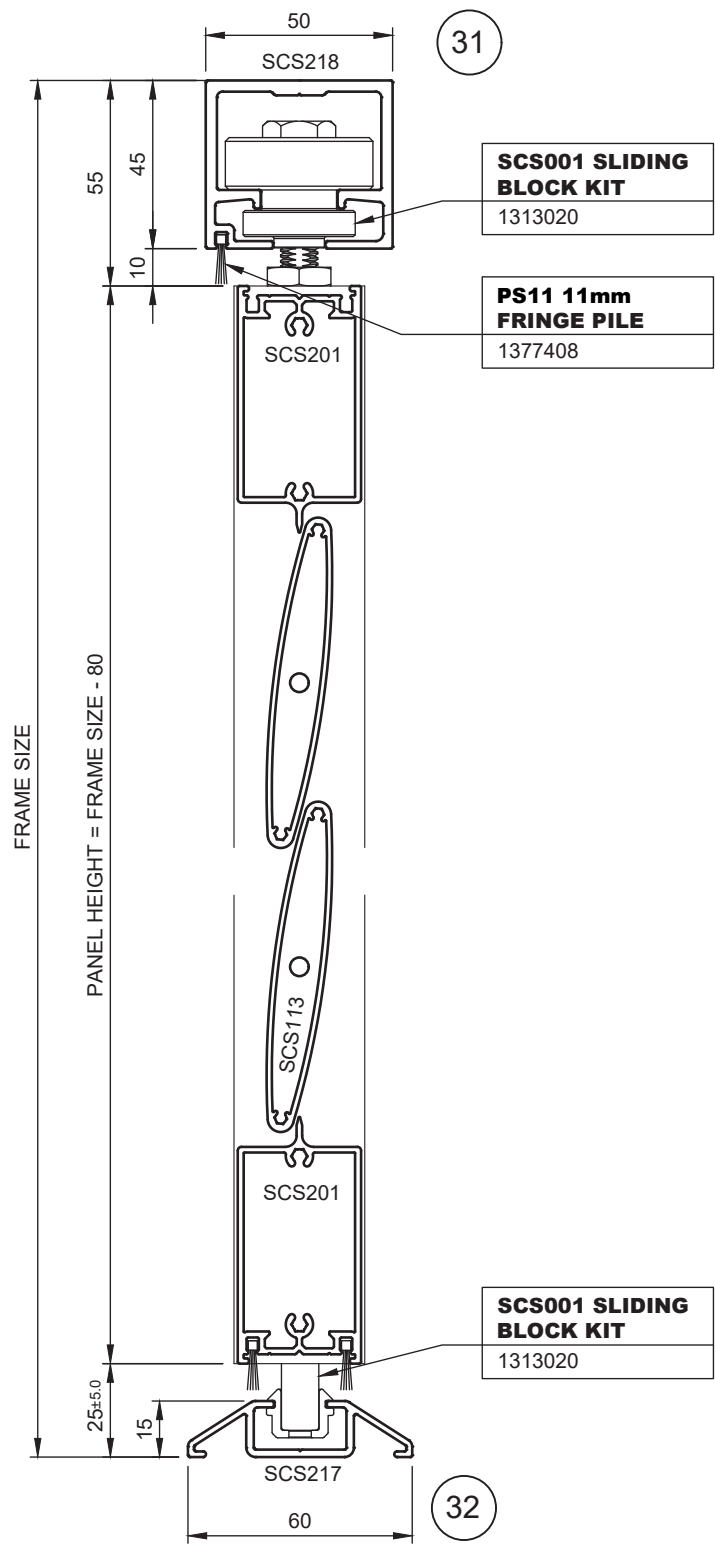
8. Typical Details

Horizontal Details - Bi-fold - Intermediate Hinge



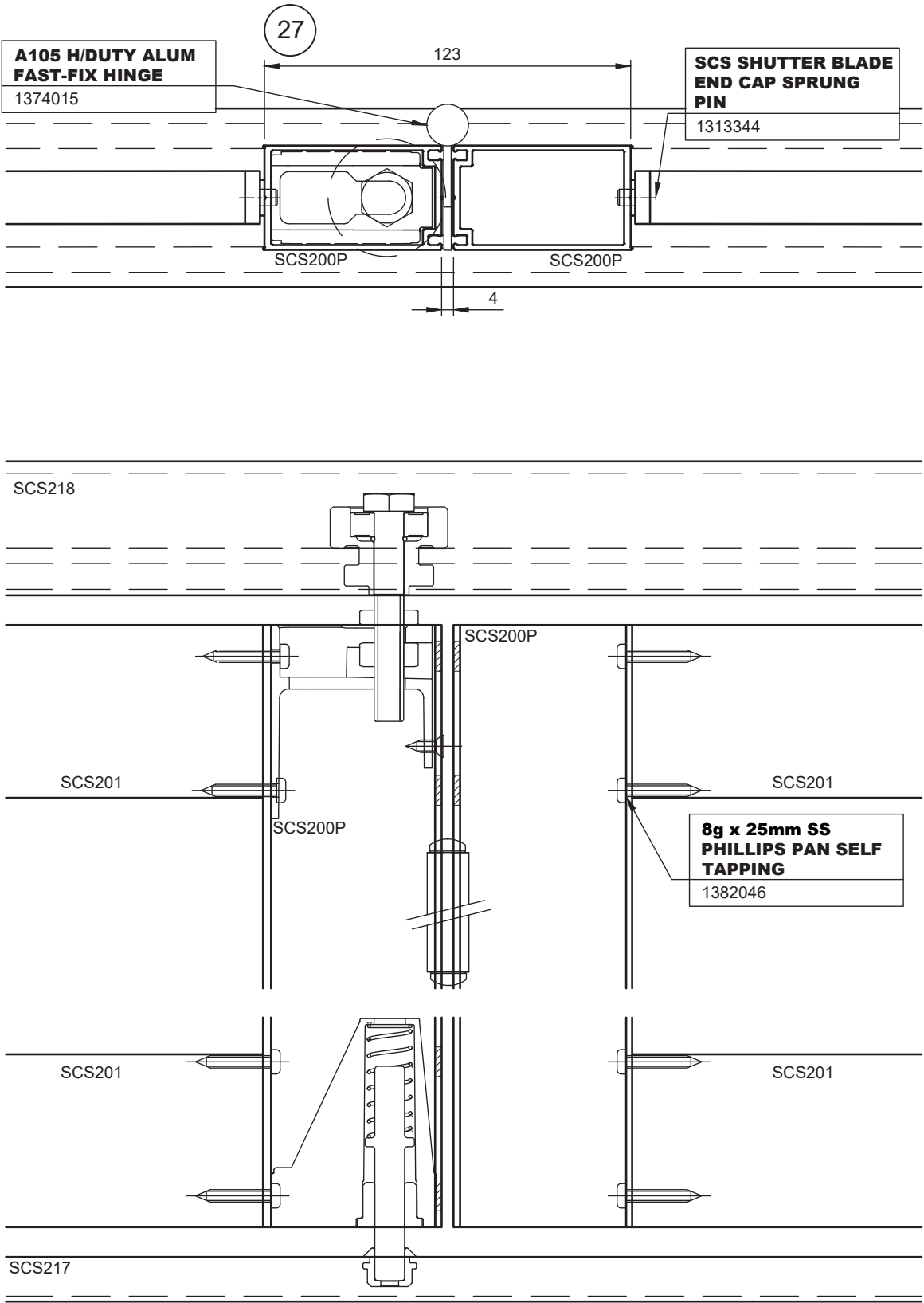
8. Typical Details

Vertical Details - Intermediate Hanger



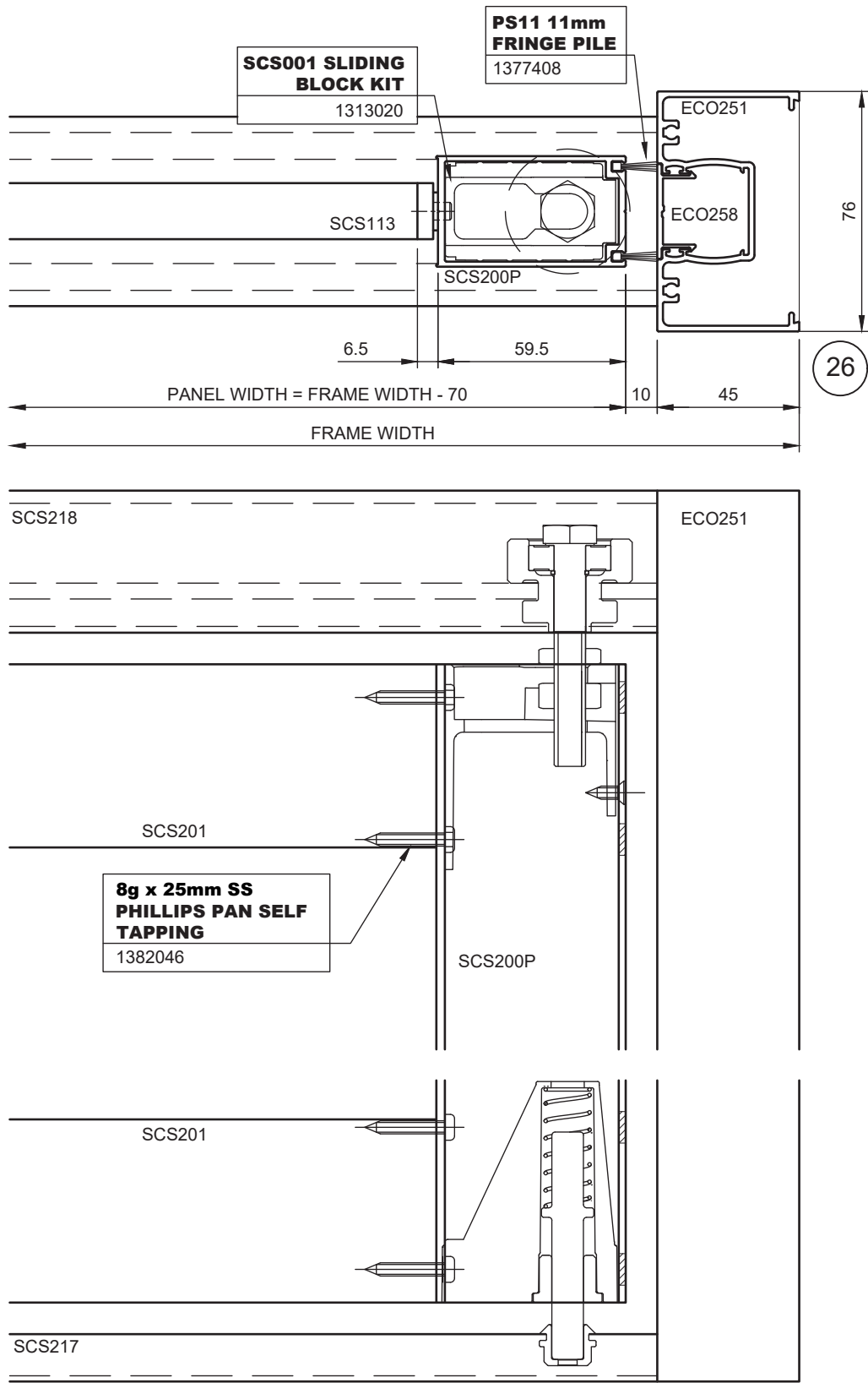
8. Typical Details

Horizontal Details - Bi-fold - Intermediate Hanger



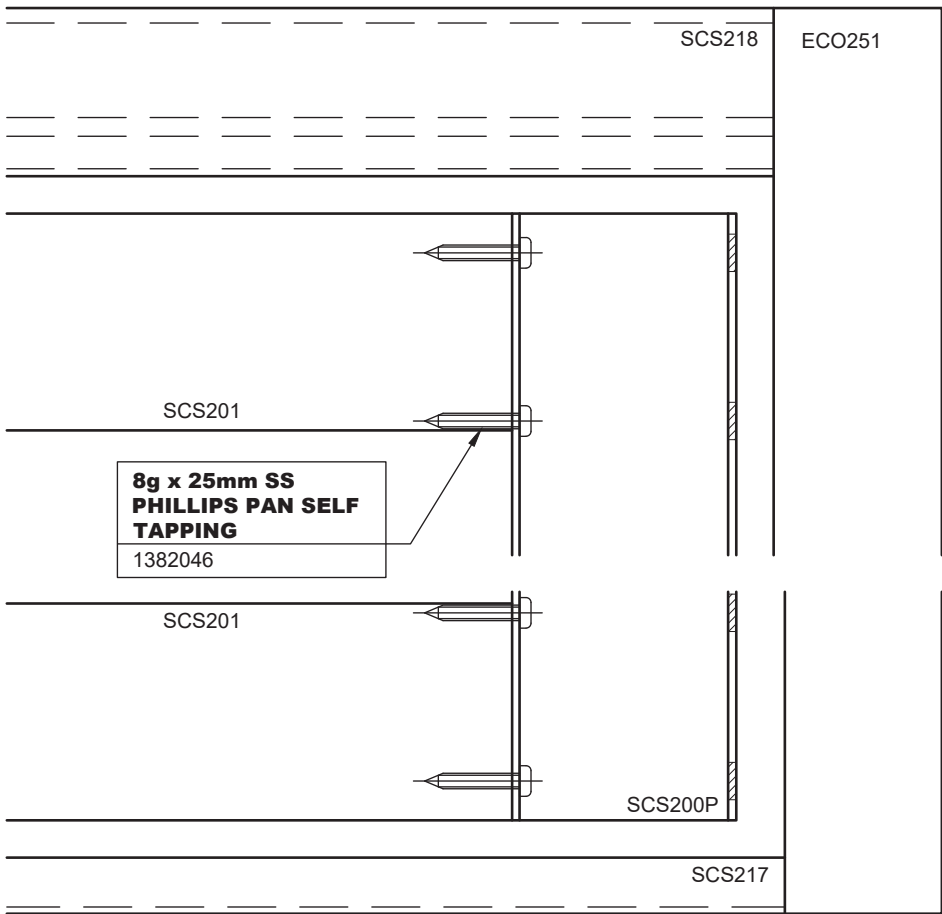
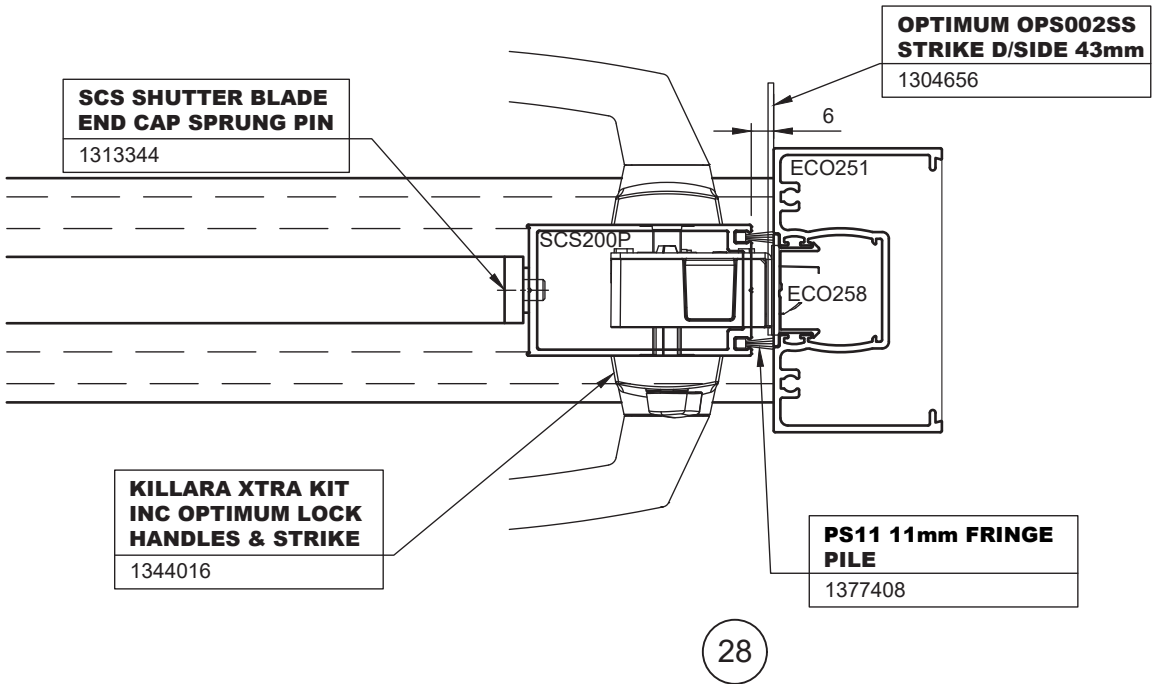
8. Typical Details

Horizontal Details - Bi-fold - End Hanger - Even Panel Config.



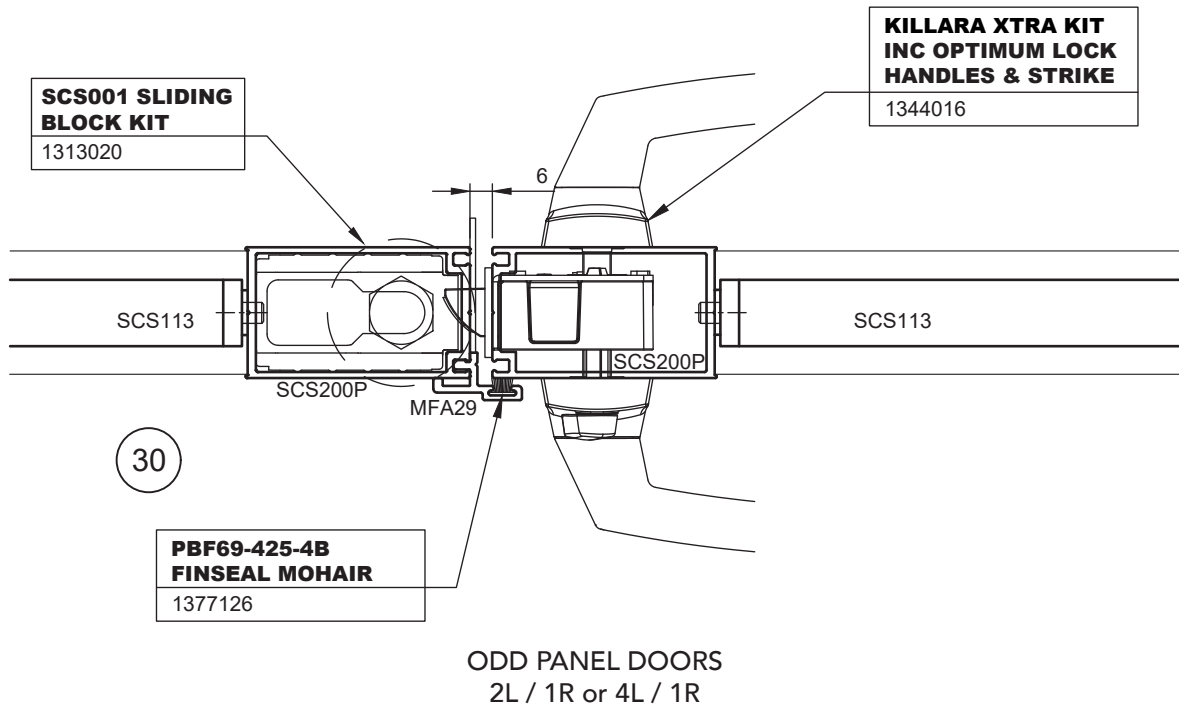
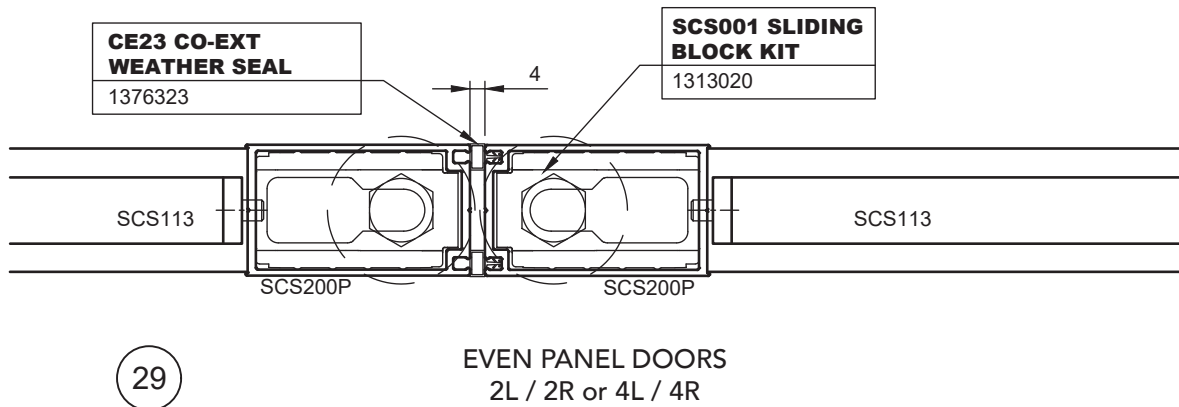
8. Typical Details

Horizontal Details - Bi-fold - Active Leaf - Odd Panel Config.



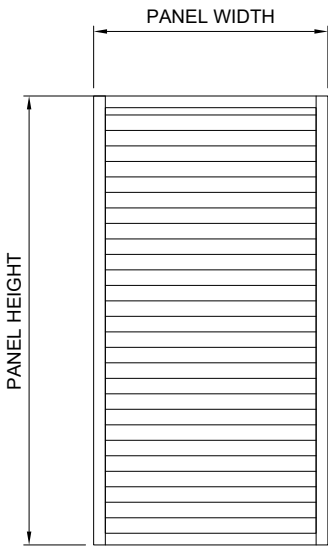
8. Typical Details

Horizontal Details - Bi-fold - Meeting Panels



9. Cutting Formulas

Louvre Panel

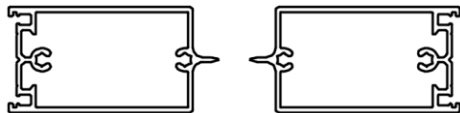


PROFILE	SECTION NO.	DESCRIPTION	CUTTING FORMULA	QTY
	SCS200P	Stile	Panel Height	2
	SCS201	66mm Rail	Panel Width - 119	2
	SCS205	Mid Rail	Panel Width - 119	1
	SCS113	89mm Louvre Blade	Panel Width - 132	

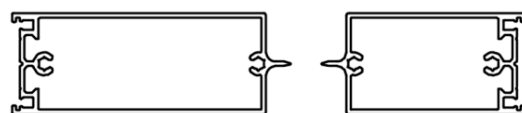
Refer panel height chart for standard height options and louvre blade qty's

9. Cutting Formulas

Standard Panel Heights - Fixed Rails



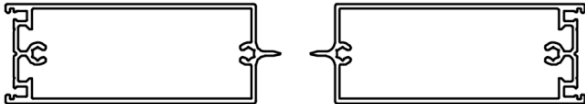
SCS201 / SCS201 STD RAIL COMBINATION	
Panel Height	Blade QTY
364	3
440	4
516	5
592	6
668	7
744	8
820	9
896	10
972	11
1048	12
1124	13
1200	14
1276	15
1352	16
1428	17
1504	18
1580	19
1656	20
1732	21
1808	22
1884	23
1960	24
2036	25
2112	26
2188	27
2264	28
2340	29
2416	30
2492	31
2568	32
2644	33
2720	34
2796	35
2872	36



SCS201 / SCS202 STD & HIGH RAIL COMBINATION	
Panel Height	Blade QTY
389	3
465	4
541	5
617	6
693	7
769	8
845	9
921	10
997	11
1073	12
1149	13
1225	14
1301	15
1377	16
1453	17
1529	18
1605	19
1681	20
1757	21
1833	22
1909	23
1985	24
2061	25
2137	26
2213	27
2289	28
2365	29
2441	30
2517	31
2593	32
2669	33
2745	34
2821	35
2897	36

9. Cutting Formulas

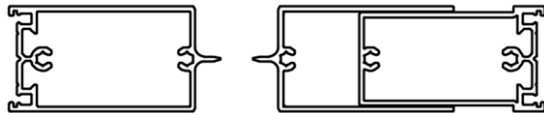
Standard Panel Heights - Fixed Rails



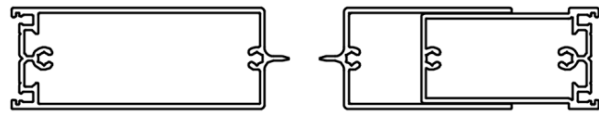
SCS202 / SCS202 HIGH RAIL COMBINATION	
Panel Height	Blade QTY
413	3
489	4
565	5
641	6
717	7
793	8
869	9
945	10
1021	11
1097	12
1173	13
1249	14
1325	15
1401	16
1477	17
1553	18
1629	19
1705	20
1781	21
1857	22
1933	23
2009	24
2085	25
2161	26
2237	27
2313	28
2389	29
2465	30
2541	31
2617	32
2693	33
2769	34
2845	35
2921	36

9. Cutting Formulas

Standard Panel Heights - Adjustable Rails



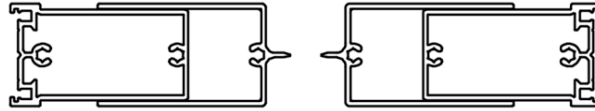
SCS201 / SCS203 / SCS204 STD & ADJ RAIL COMBINATION		
Panel Height		Blade QTY
Min	Max	
371	406	3
447	482	4
523	558	5
599	634	6
675	710	7
751	786	8
827	862	9
903	938	10
979	1014	11
1055	1090	12
1131	1166	13
1207	1242	14
1283	1318	15
1359	1394	16
1435	1470	17
1511	1546	18
1587	1622	19
1663	1698	20
1739	1774	21
1815	1850	22
1891	1926	23
1967	2002	24
2043	2078	25
2119	2154	26
2195	2230	27
2271	2306	28
2347	2382	29
2423	2458	30
2499	2534	31
2575	2610	32
2651	2686	33
2727	2762	34
2803	2838	35
2879	2914	36



SCS202 / SCS203 / SCS204 HIGH & ADJ RAIL COMBINATION		
Panel Height		Blade QTY
Min	Max	
396	431	3
472	507	4
548	583	5
624	659	6
700	735	7
776	811	8
852	887	9
928	963	10
1004	1039	11
1080	1115	12
1156	1191	13
1232	1267	14
1308	1343	15
1384	1419	16
1460	1495	17
1536	1571	18
1612	1647	19
1688	1723	20
1764	1799	21
1840	1875	22
1916	1951	23
1992	2027	24
2068	2103	25
2144	2179	26
2220	2255	27
2296	2331	28
2372	2407	29
2448	2483	30
2524	2559	31
2600	2635	32
2676	2711	33
2752	2787	34
2828	2863	35
2904	2939	36

9. Cutting Formulas

Standard Panel Heights - Adjustable Rails

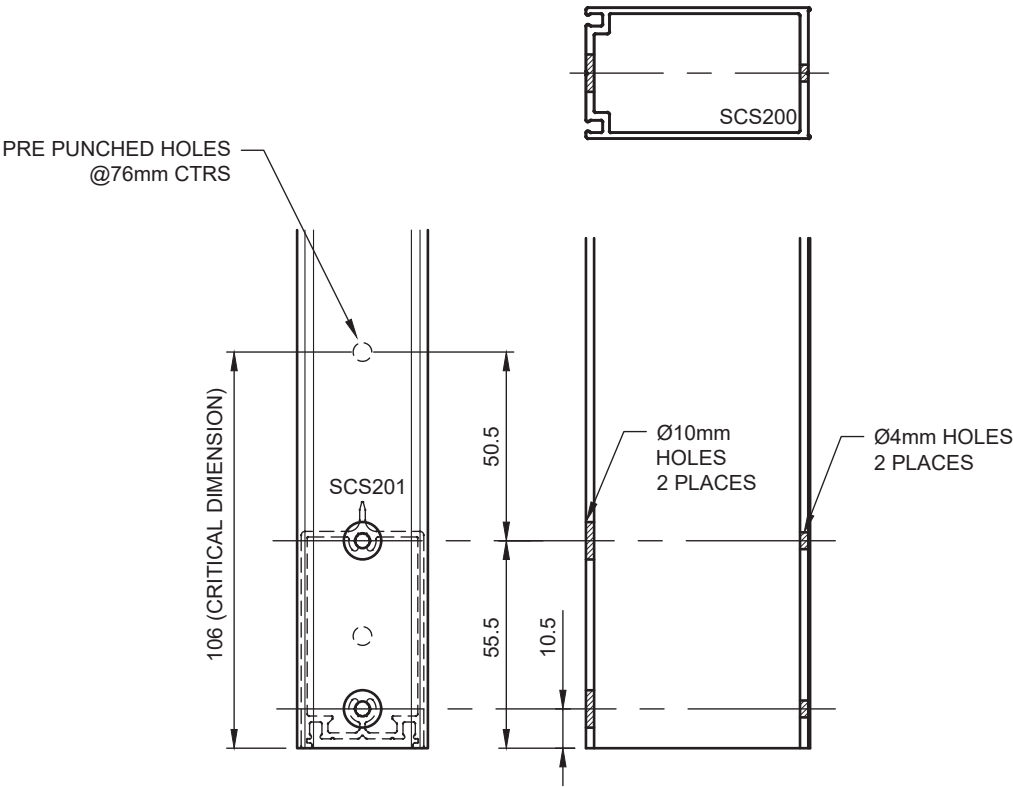


SCS203 / SCS204 ADJ RAIL COMBINATION

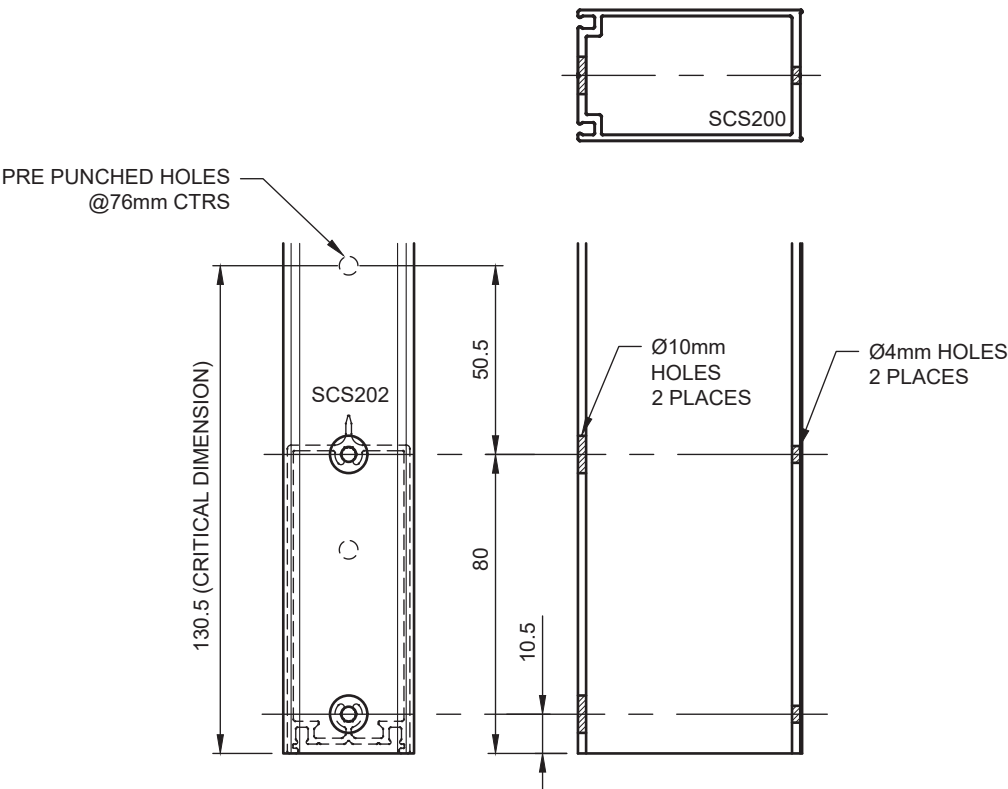
Panel Height		Blade QTY
Min	Max	
378	448	3
454	524	4
530	600	5
606	676	6
682	752	7
758	828	8
834	904	9
910	980	10
986	1056	11
1062	1132	12
1138	1208	13
1214	1284	14
1290	1360	15
1366	1436	16
1442	1512	17
1518	1588	18
1594	1664	19
1670	1740	20
1746	1816	21
1822	1892	22
1898	1968	23
1974	2044	24
2050	2120	25
2126	2196	26
2202	2272	27
2278	2348	28
2354	2424	29
2430	2500	30
2506	2576	31
2582	2652	32
2658	2728	33
2734	2804	34
2810	2880	35
2886	2956	36

10. Manufacturing Details

Stile Preparation - 66mm Rail Assembly SCS201

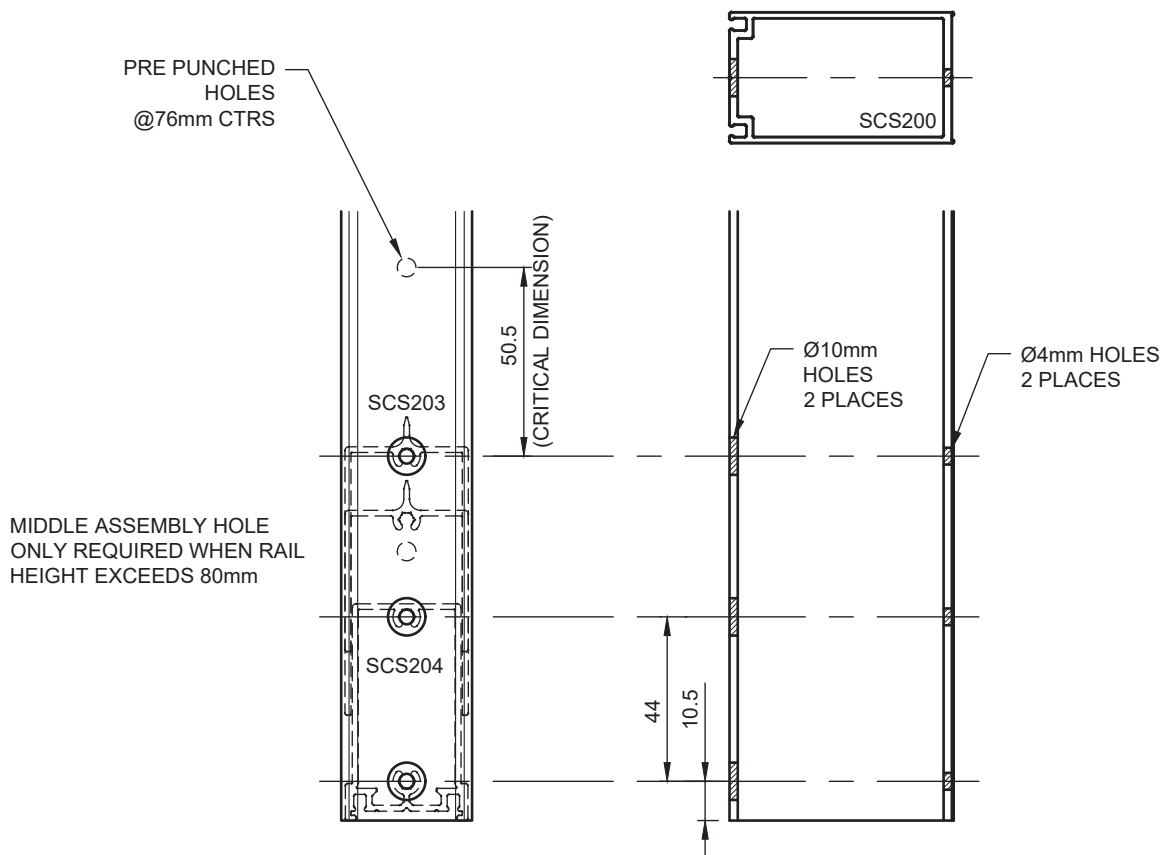


Stile Preparation - 90mm Rail Assembly SCS202

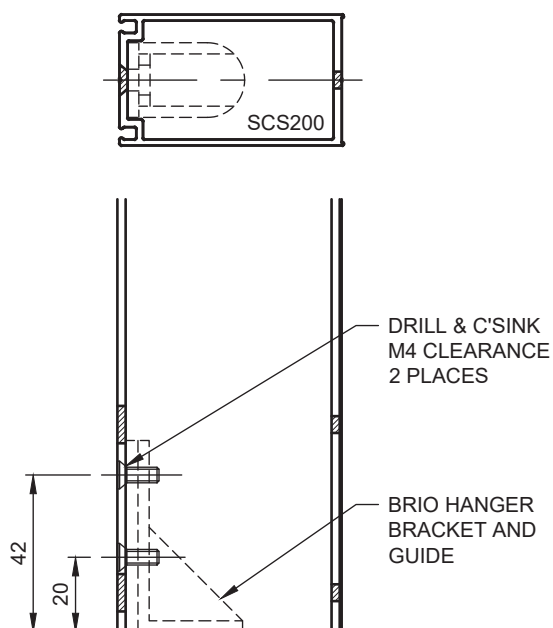


10. Manufacturing Details

Stile Preparation - ADJ Rail Assembly SCS203/204

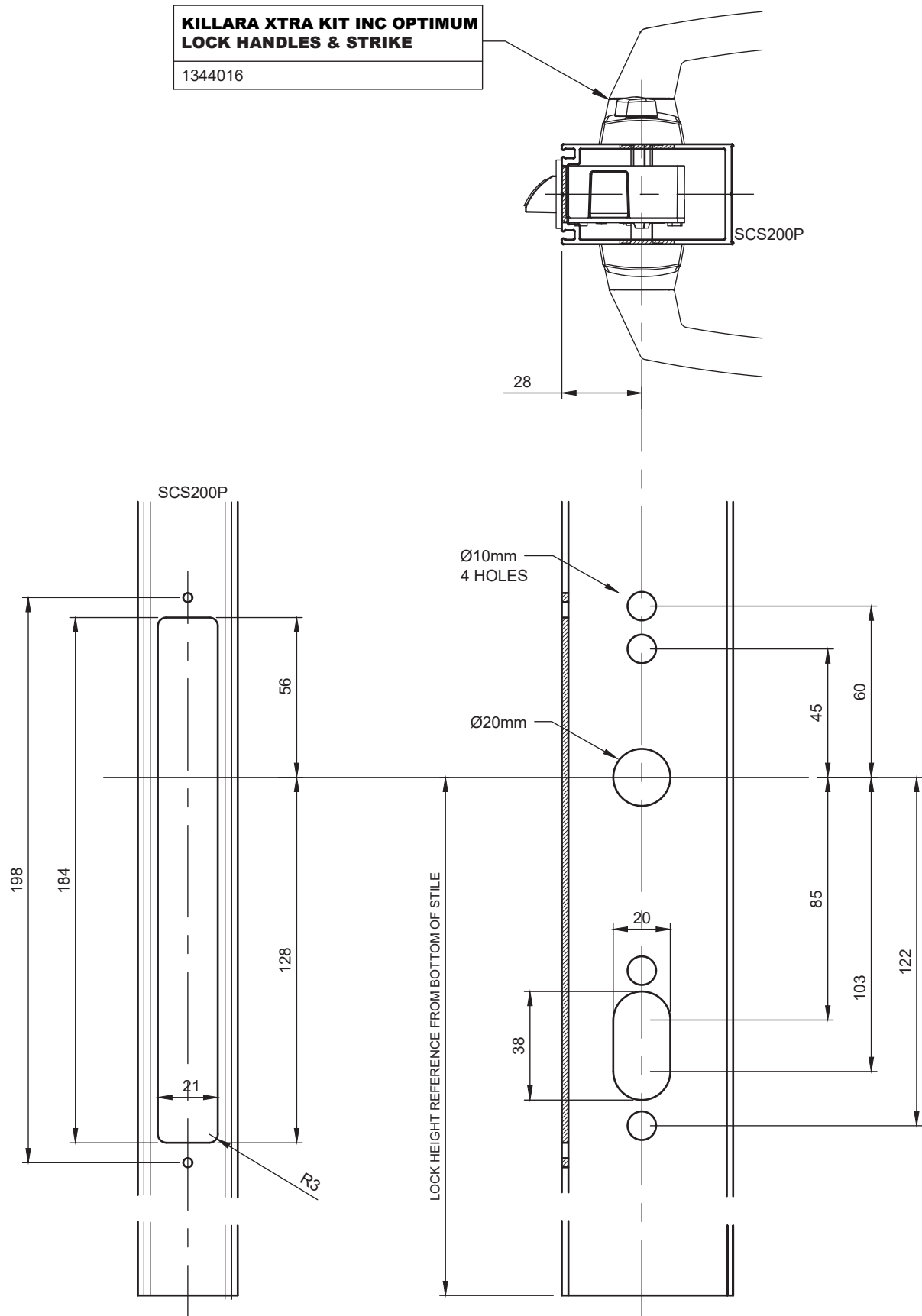


Stile Preparation - Bi-fold hardware details



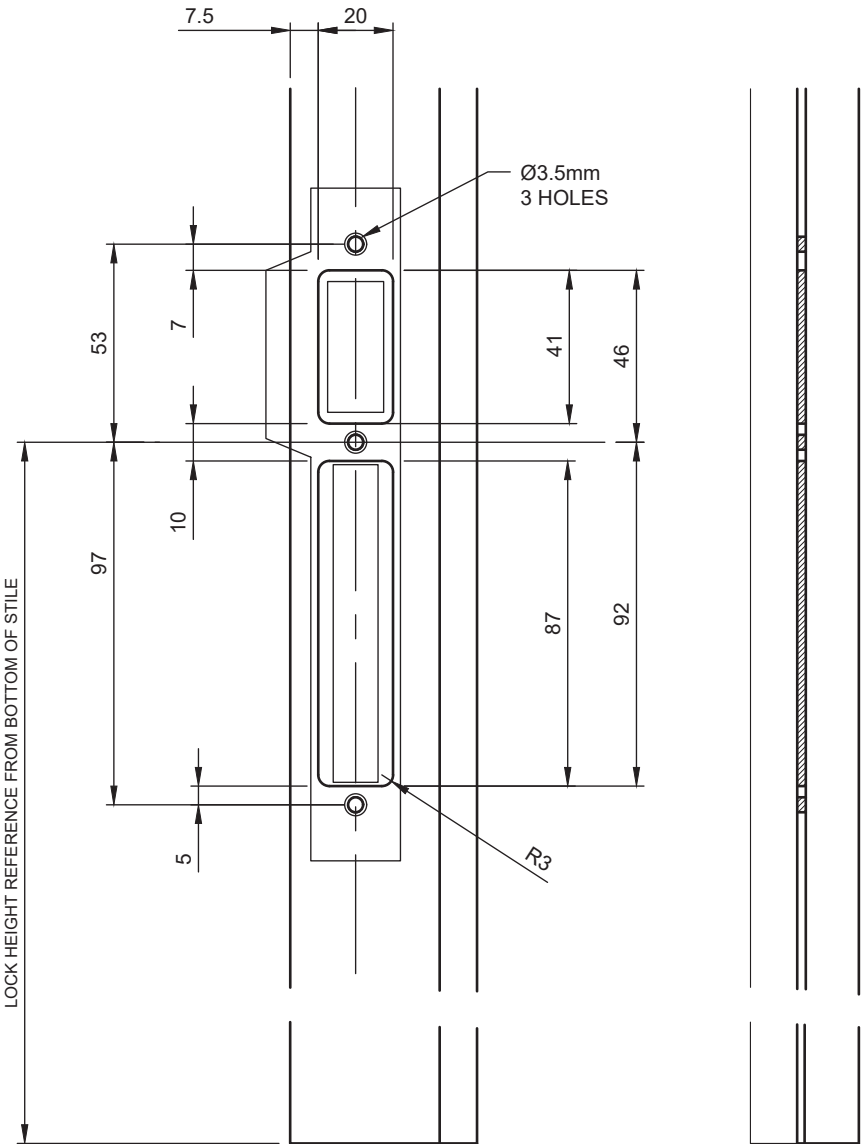
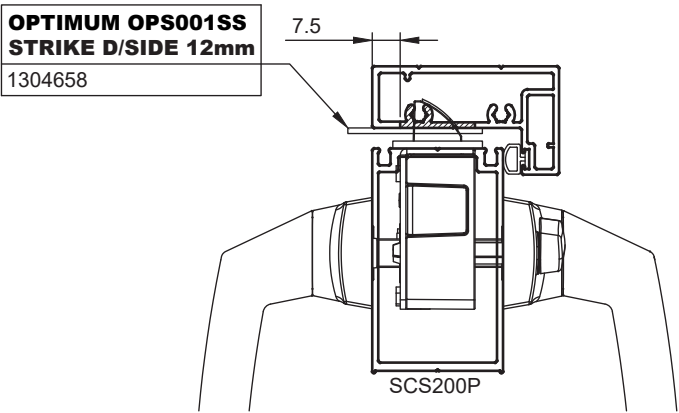
10. Manufacturing Details

Hinged Door Lock Stile Prep - ASSA Optimum / Killara



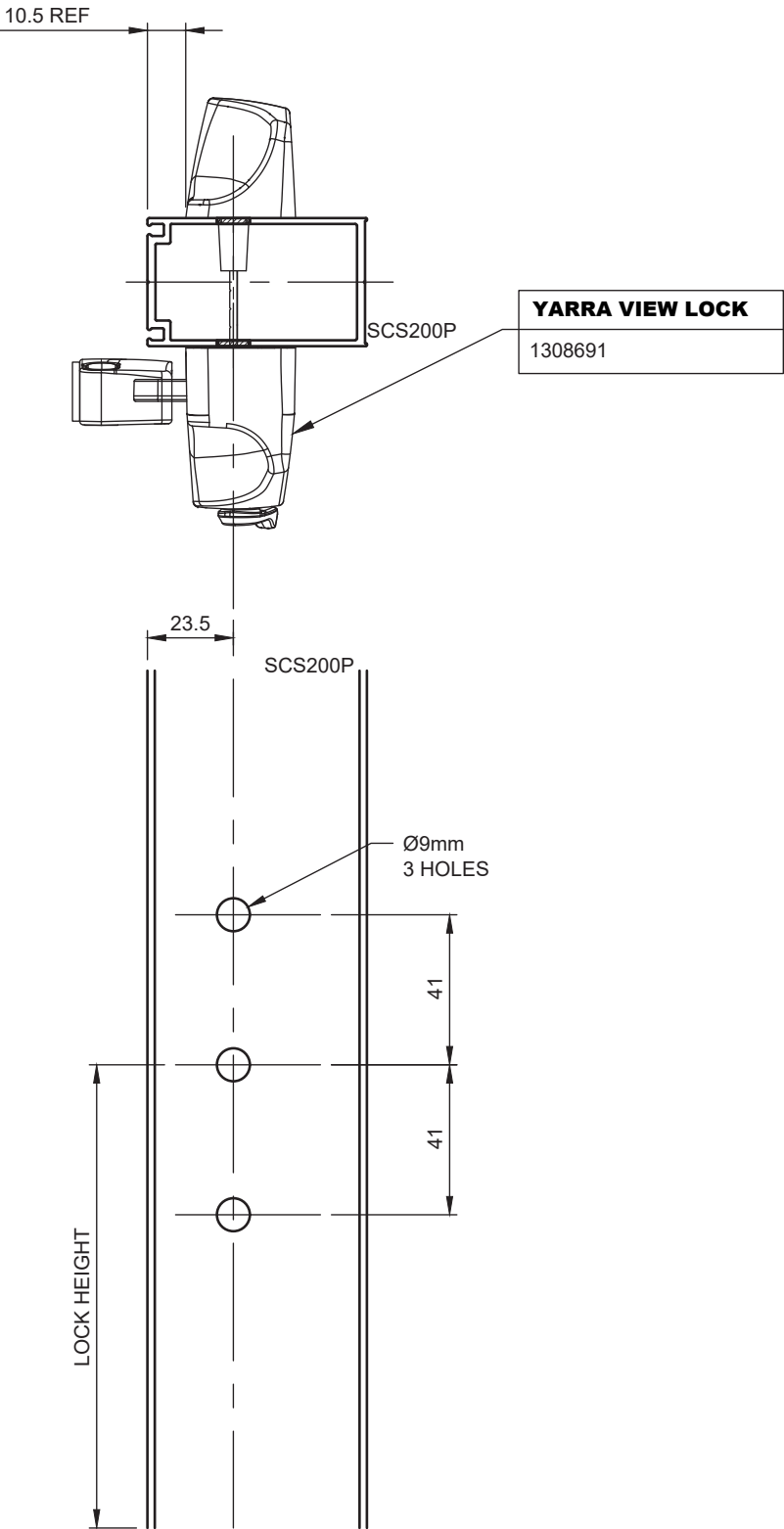
10. Manufacturing Details

Hinged Door Strike Prep - ASSA Optimum / Killara



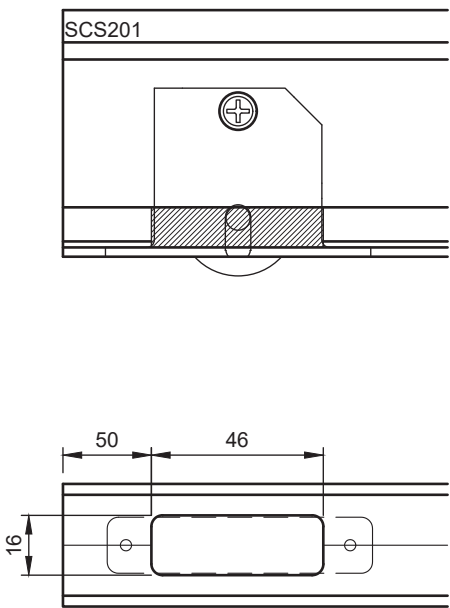
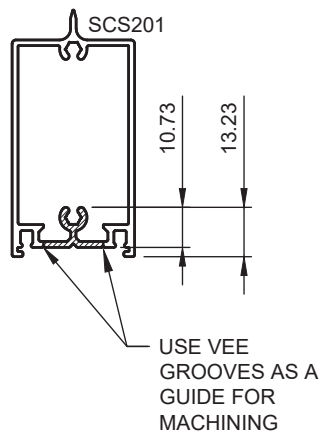
10. Manufacturing Details

Sliding Door Lock Stile Prep - Yarra Ridge



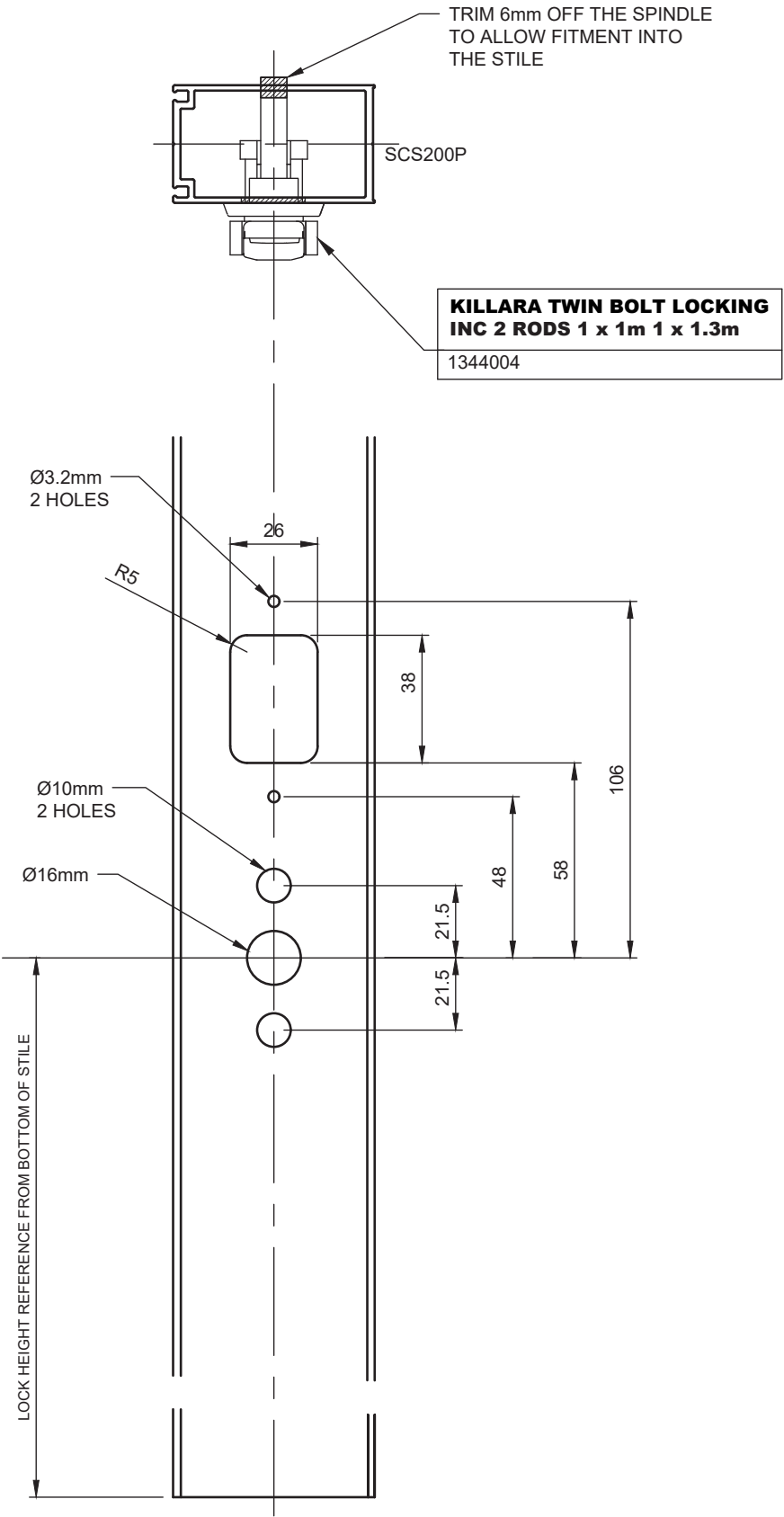
10. Manufacturing Details

Rail Preparation - Sliding Door Roller



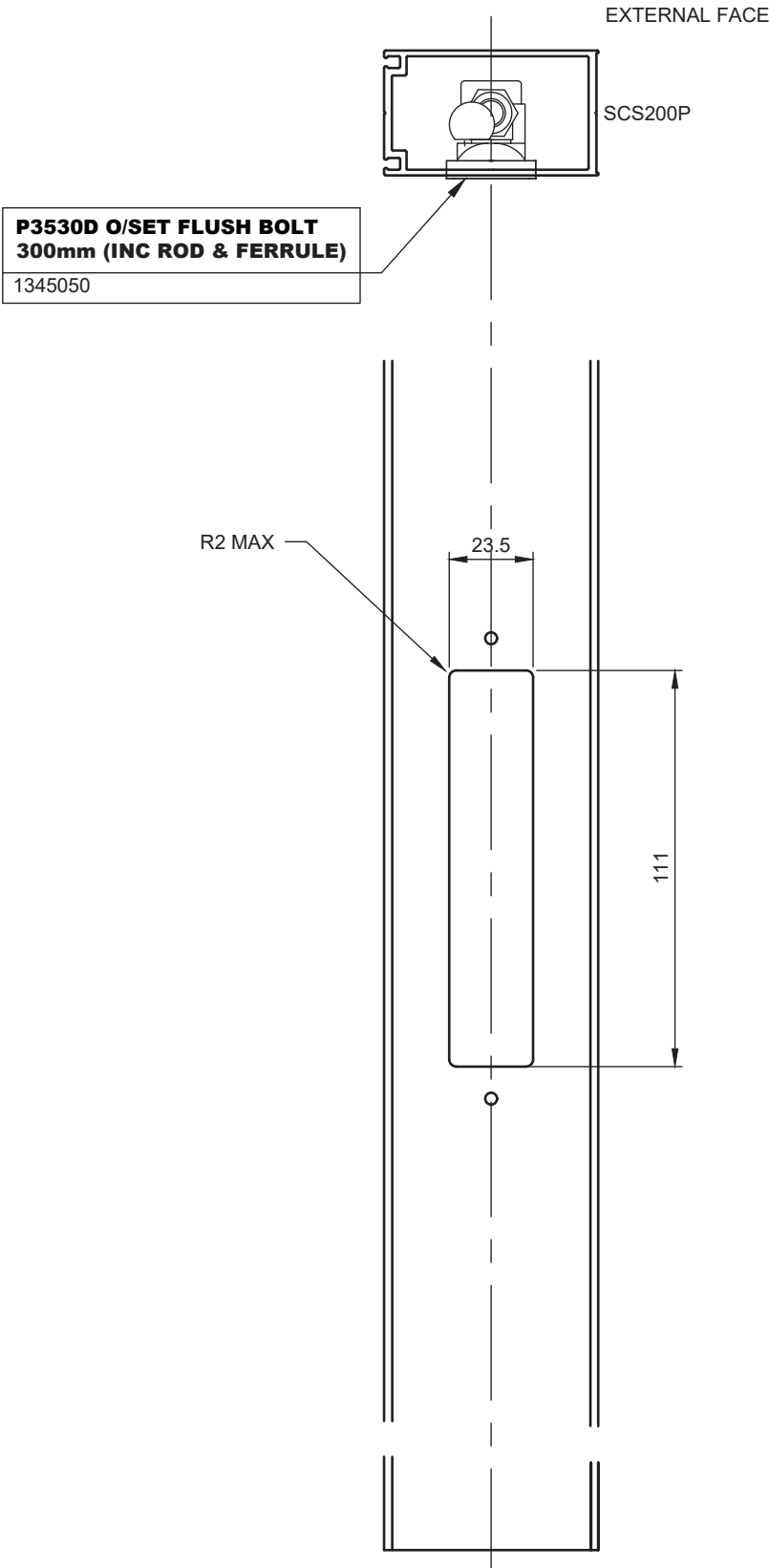
10. Manufacturing Details

Stile Prep - Killara Twin Bolt - Locking



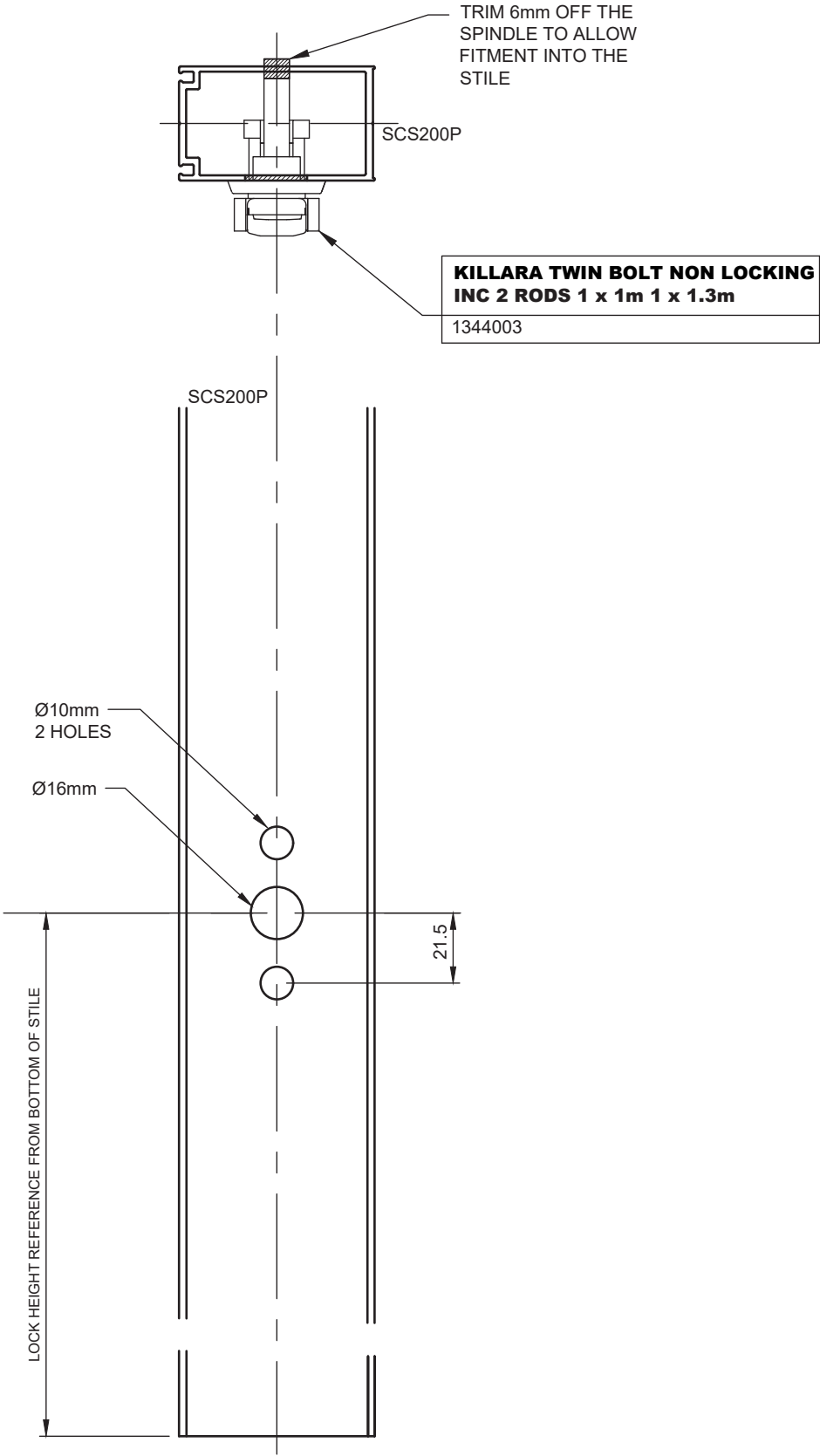
10. Manufacturing Details

Stile Prep - Flush Mounted Offset Flush Bolt



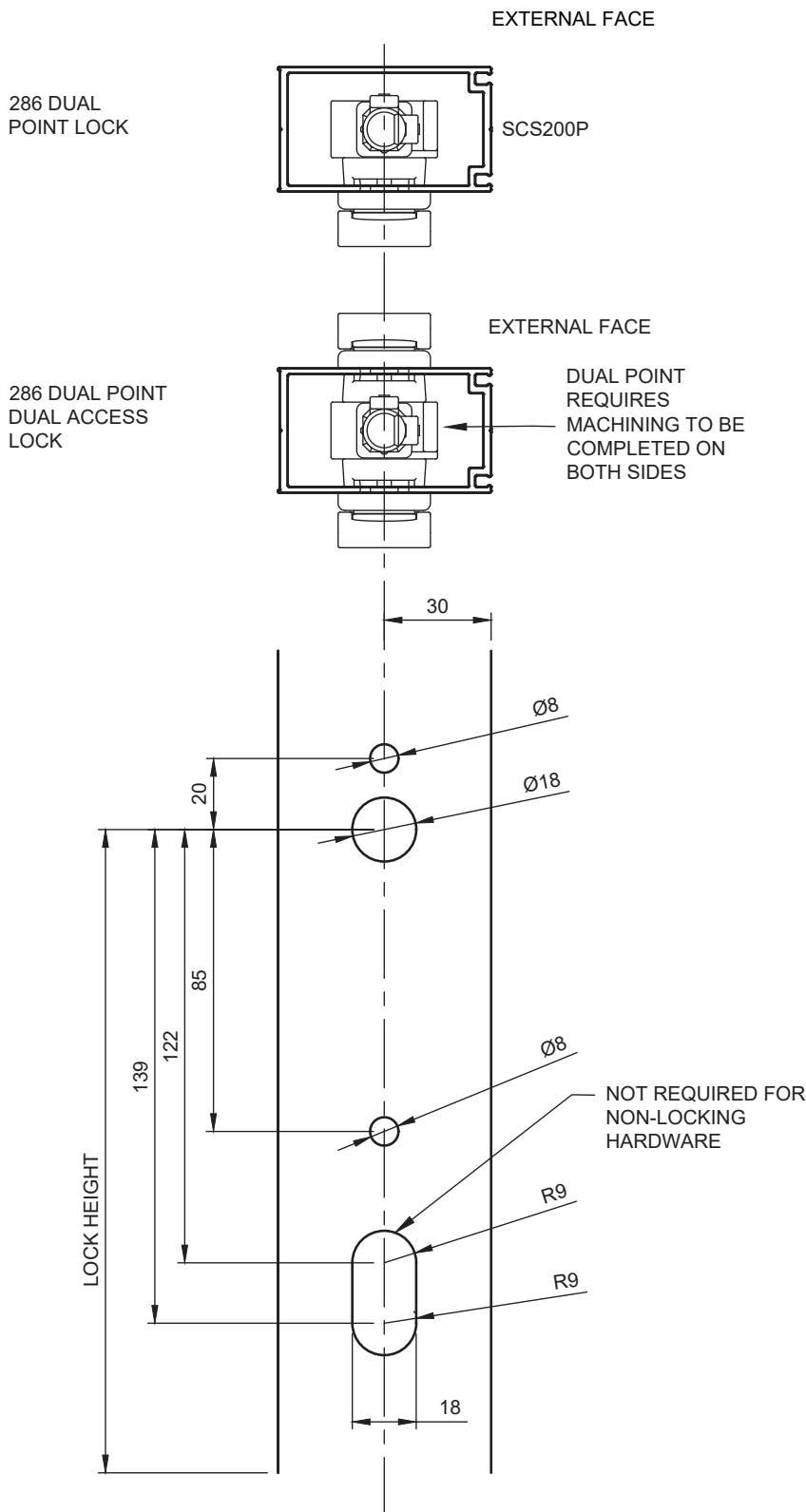
10. Manufacturing Details

Stile Prep - Killara Twin Bolt - Non Locking



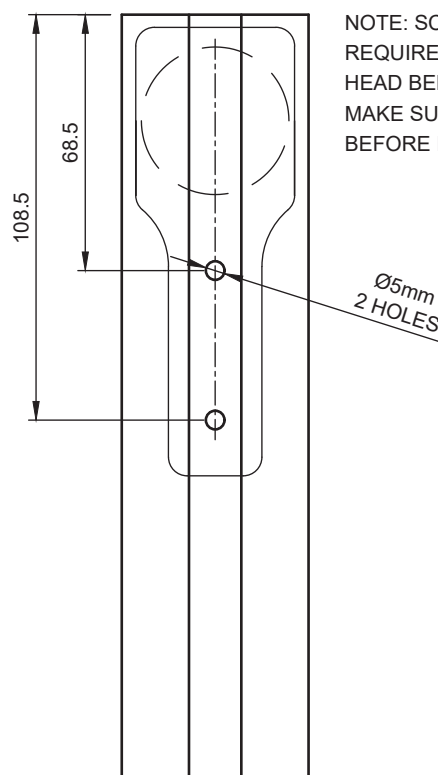
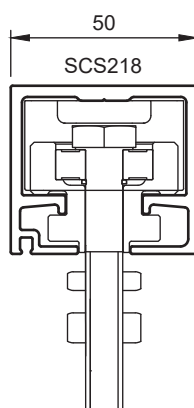
10. Manufacturing Details

Stile Prep - Twin Bolt Lock Preparation - Brio 286



10. Manufacturing Details

Pivot Adaptor Block Preparation

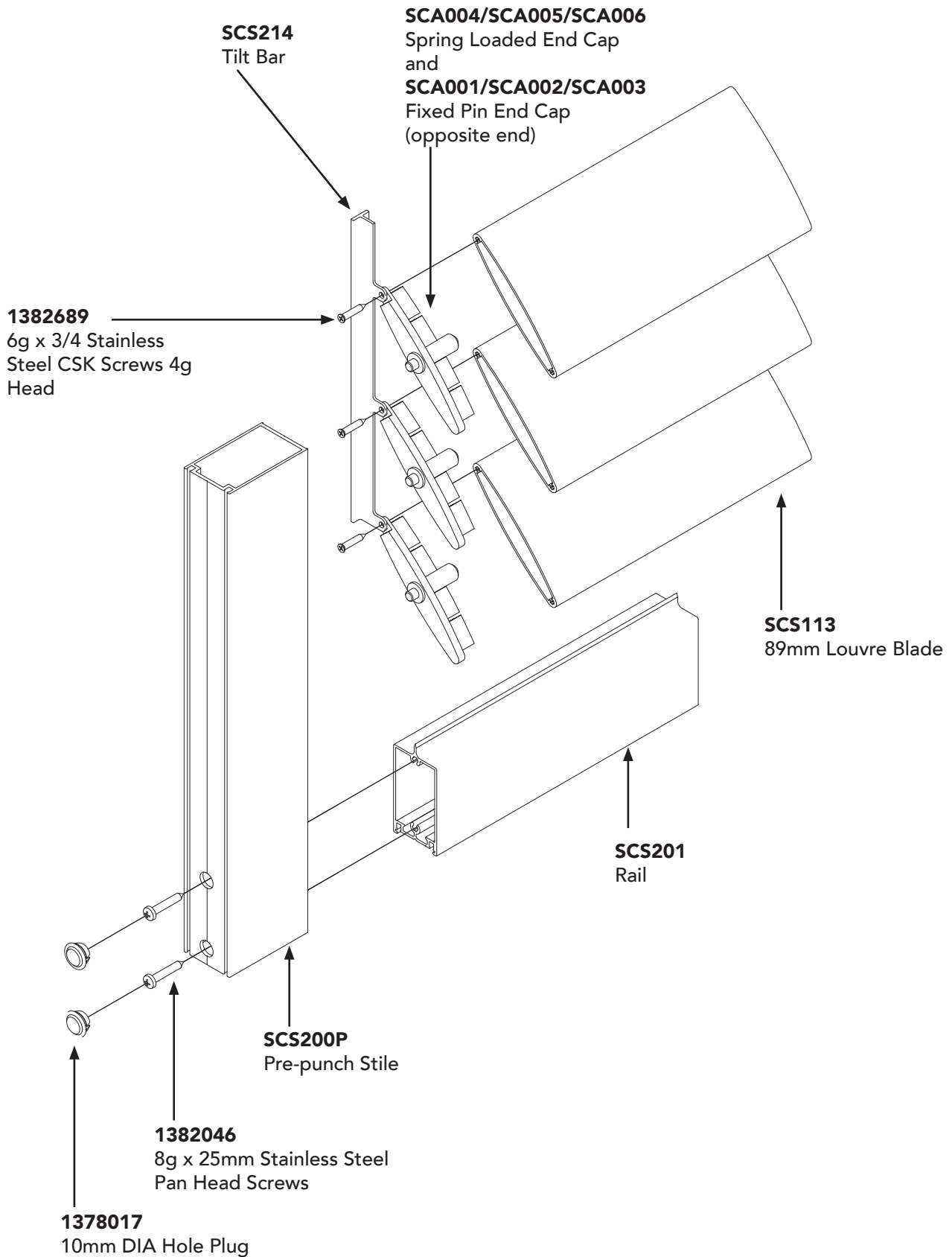


NOTE: SCS002 PIVOT ADAPTOR HEAD IS REQUIRED TO BE PLACE INTO THE HEAD BEFORE ASSEMBLING TO JAMBS. MAKE SURE WHEEL IS INSIDE ADAPTOR BEFORE INSERTING INTO HEAD.

Ø5mm
2 HOLES

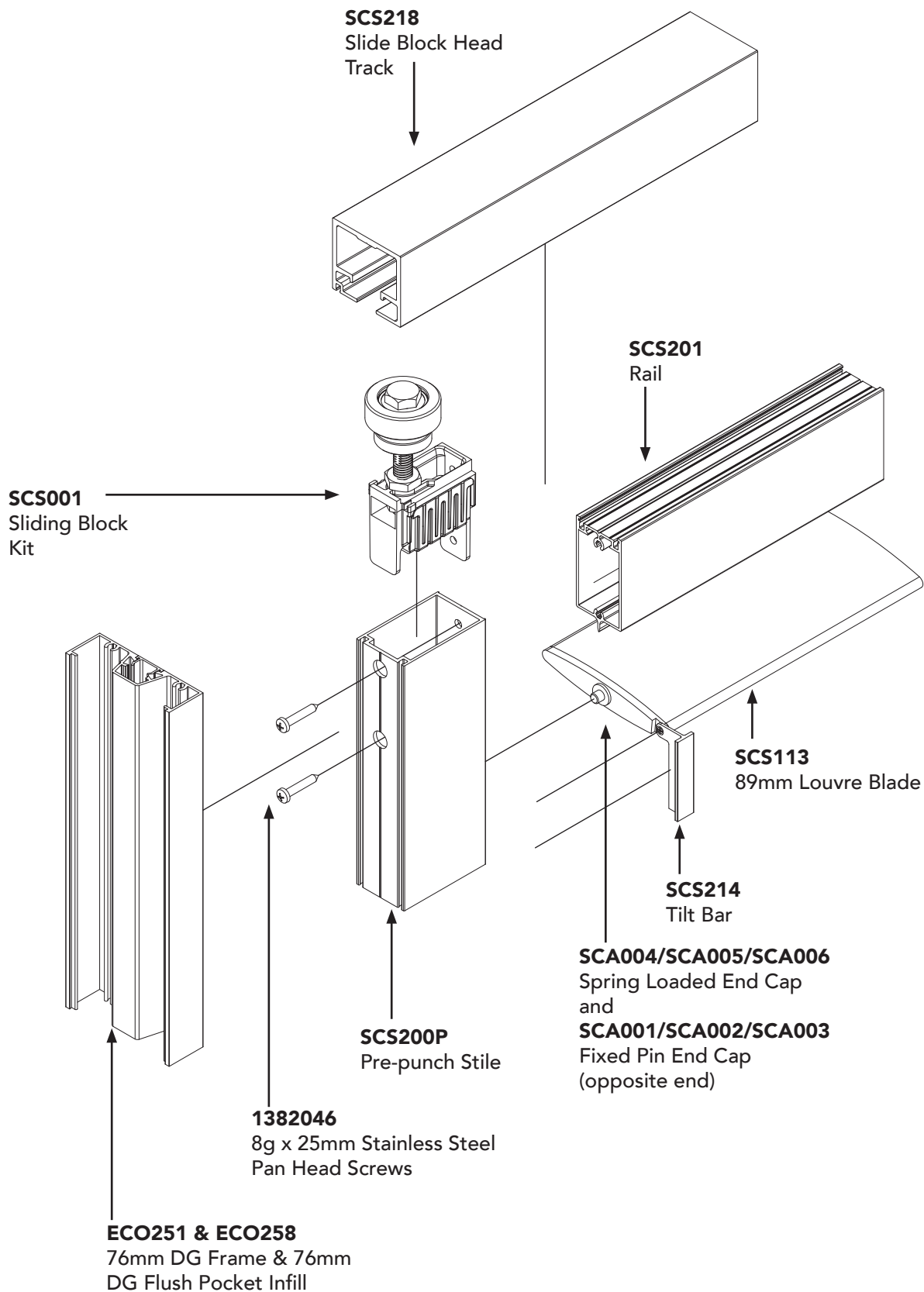
11. Assembly Details

Louvre Panel Assembly



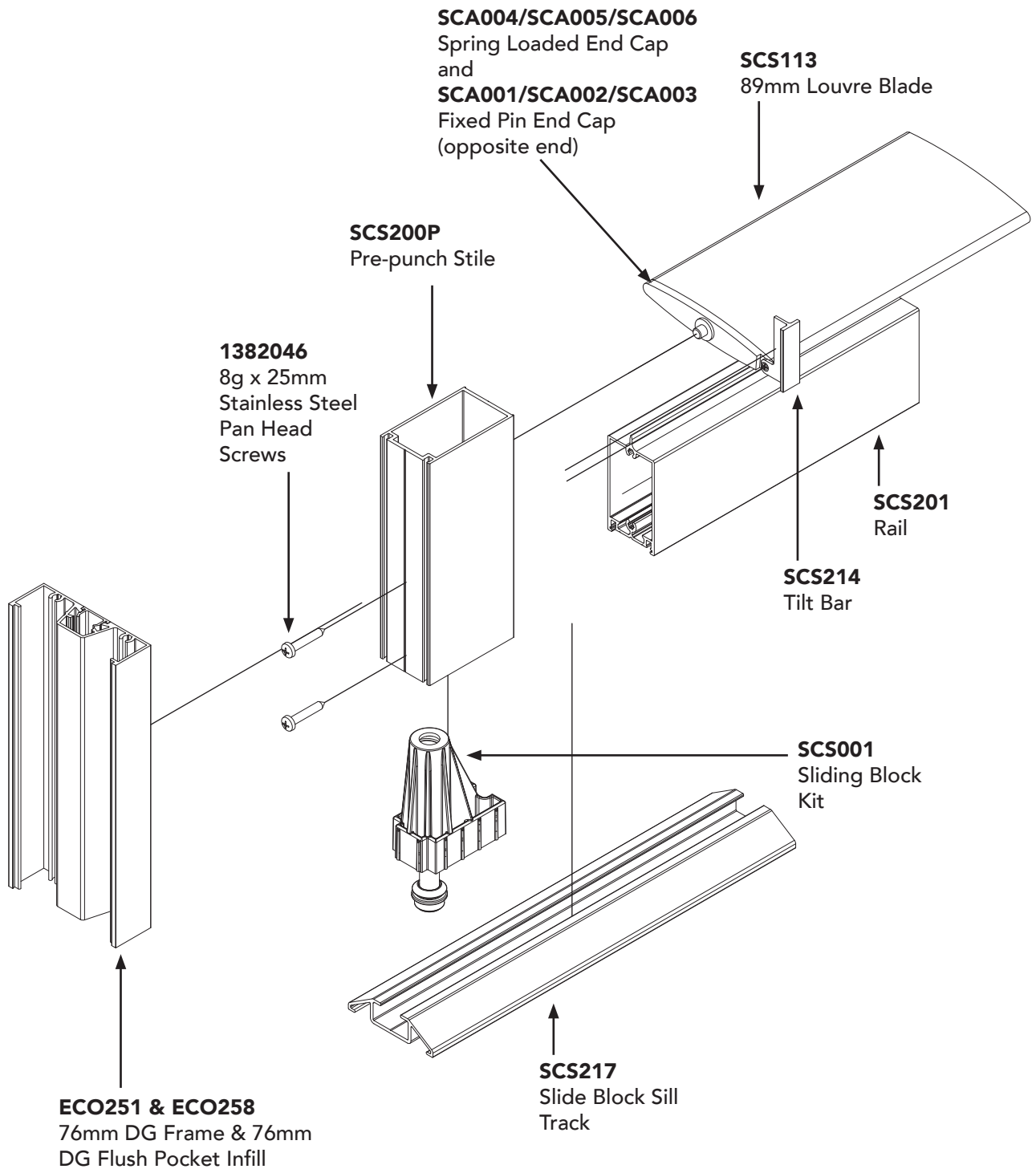
11. Assembly Details

Sliding Block Panel Head Assembly



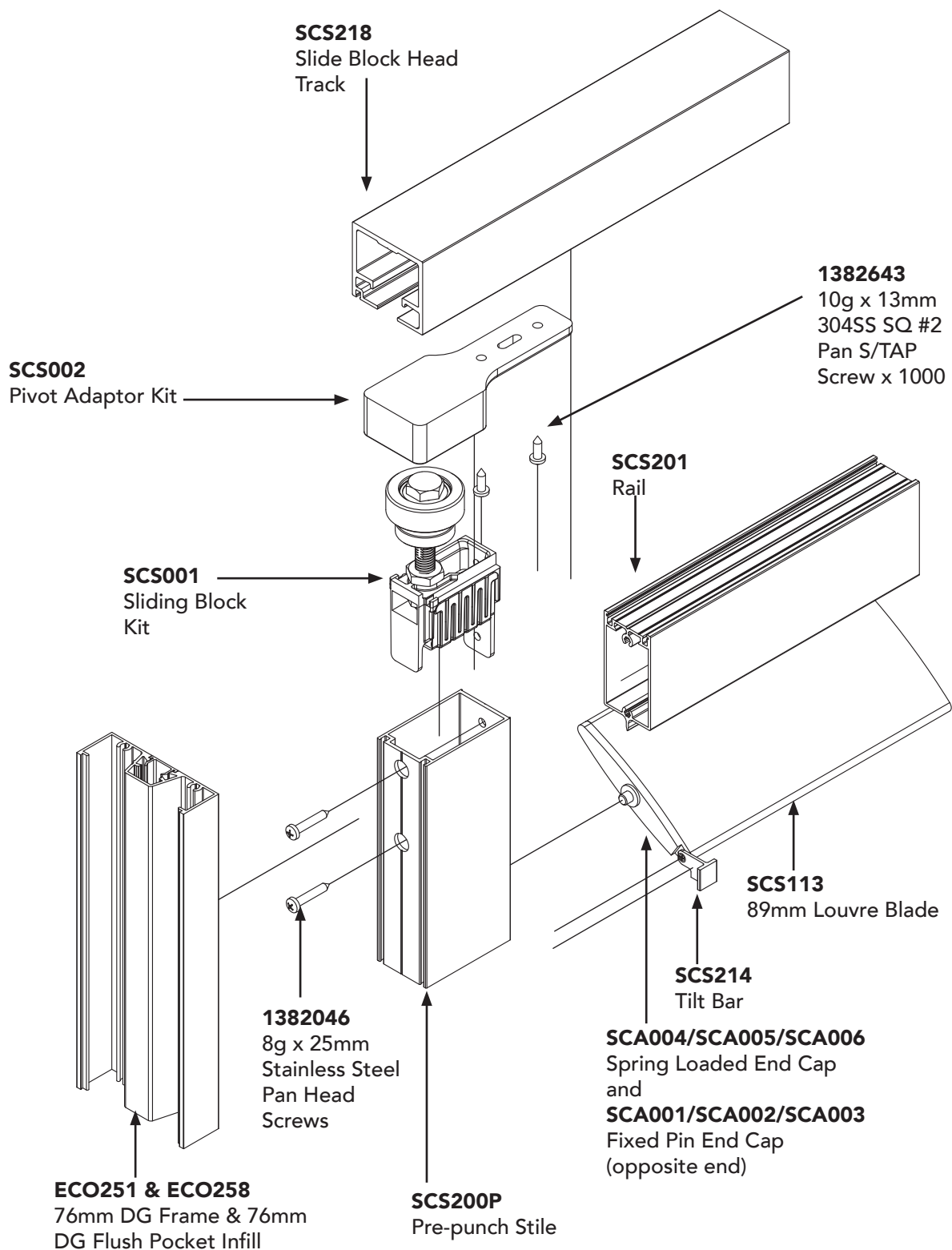
11. Assembly Details

Sliding Block Panel Sill Assembly



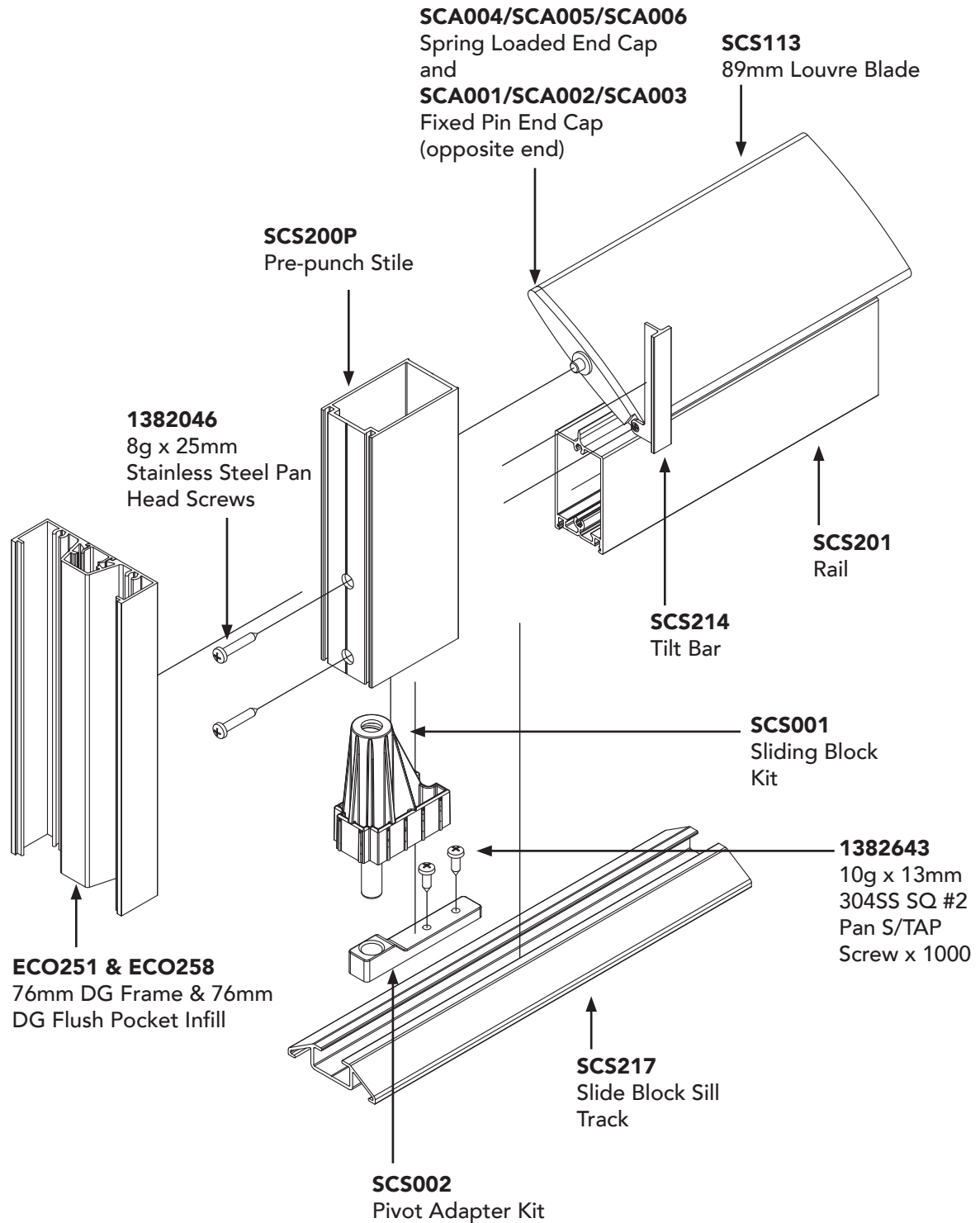
11. Assembly Details

Fixed Pivot Block Head Assembly



11. Assembly Details

Fixed Pivot Block Sill Assembly



FRAMING

Your new **Cityscape Aluminium Shutter System** 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 **Cityscape Aluminium Shutter System** frame will retain it’s good looks and resist the elements for years to come.

The **Cityscape Aluminium Shutter System** 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 **Cityscape Aluminium Shutter System** 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 **Cityscape Aluminium Shutter System** 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.

HEAD OFFICE | 3 Alspec Place, Eastern Creek NSW 2766
Phone: 02 9834 9500 | Fax: 02 9834 9532 | info@alspec.com.au

ALSPEC SHOWROOMS

AluSpace by Alspec - Sydney | 110 New South Head Road, Edgecliff NSW 2027
Phone: 1300 ALUSPACE (1300 258 772) | design@alspec.com.au

AluSpace by Alspec - Adelaide | 1 Pope Court, Beverley SA 5009
Phone: 08 8150 6960 | adelaidealospace@alspec.com.au

Brisbane Design Centre | 66 Merivale Street, South Brisbane QLD 4101
Phone: 07 3089 4900 | brisbane@alspec.com.au

MELBOURNE BRANCH
26–40 Pound Road West
Dandenong South VIC 3175
Phone: 03 8787 6333
Fax: 03 8787 6399
melbourne@alspec.com.au

ADELAIDE BRANCH
1 Pope Court
Beverley SA 5009
Phone: 08 8150 6960
Fax: 08 8150 6999
adelaide@alspec.com.au

PERTH BRANCH
30 Holder Way
Malaga WA 6090
Phone: 08 9209 9100
Fax: 08 9209 9199
perth@alspec.com.au

BRISBANE BRANCH
8–22 Jutland Street
Loganlea QLD 4131
Phone: 07 3089 4900
Fax: 07 3089 4999
brisbane@alspec.com.au

NEWCASTLE BRANCH
95 Griffiths Road
Lambton NSW 2299
Phone: 02 4952 9111
Fax: 02 4952 9728
newcastle@alspec.com.au

CAIRNS BRANCH
34–38 Hargreaves Street
Edmonton QLD 4869
Phone: 07 4037 6666
Fax: 07 4037 6699
cairns@alspec.com.au

CANBERRA BRANCH
28 Sheppard Street
Hume ACT 2620
Phone: 02 5134 3300
canberra@alspec.com.au

DARWIN BRANCH
25 Bishop Street
Woolner NT 0820
Phone: 08 8941 7300
darwin@alspec.com.au

SUNSHINE COAST BRANCH
4-8 Empire Crescent
Chevallum QLD 4555
Phone: 07 5437 6123
Fax: 07 5437 6124
chevallum@alspec.com.au

BRENDALE BRANCH
24 Doherty Street
Brendale QLD 4500
Phone: 07 3205 9911
Fax: 07 3205 9915
brendale@alspec.com.au

TOWNSVILLE BRANCH
21 Carroll Street
Mount Louisa QLD 4814
Phone: 07 3089 4965
Fax: 1300 131 747
townsville@alspec.com.au

BUNDABERG BRANCH
17 Production Street
Svensson Heights QLD 4670
Phone: 07 4111 2000
Fax: 07 4111 2099
bundaberg@alspec.com.au

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