

Crown 98mm Sliding Patio Door



Crown 98mm Patio Door

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Crown 98mm Patio Door

Specification

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Scope

This specification details materials, construction, finish and size limitations for the Crown 98mm Patio Door. This range is designed to meet high performance requirements in a variety of applications.

Materials

Aluminium profiles are extruded from aluminium alloy 6063 or 6060 T6 complying with the recommendations of BS EN 755-9:2001. Polyester powder coat finishes are available to BS EN 12206-1:2004 in a wide range of colours. Anodised finish is to BS 3987 Grade AA25 etch silver.

Weatherstripping is a woven pile internally and externally, set in undercut grooves in the frame.

The thermal barrier is achieved using two polyamide extrusions separating the internal and external faces.

Construction

Frame members are square cut and shouldered (where necessary). Joints are secured using stainless self tapping screws into screw ports extruded into the profile. All joints shall be sealed during fabrication against water entry.

The thermal barrier section is achieved using two separate aluminium extrusions and polyamide extrusions mechanically jointed to form a single compound profile.

Assembly and Installation

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Detailed instructions are provided in this publication, which must be strictly conformed to. Only parts supplied by Sapa should be used in the manufacture of Crown 98mm Patio Doors.

Hardware

Panels slide on adjustable stainless steel tandem rollers. Panels are locked using a multipoint lock with 6 hooks into a full length keep. Both lock and keep are mild steel zinc plated to give corrosion resistance of Grade 4 in accordance with BS EN 1670. Handles and panel stops are zinc die castings.

Glazing

Drainage in accordance with details listed in this manual meets the requirements of "Ventilated and Drained Glazing System", as specified in BS6262. Glass must conform to BS6262 for thickness and type. Insulating glass units of 28mm can be accommodated.

Glass is set against extruded nitrile rubber gaskets retained in undercut grooves in the aluminium sash profile for security. Final retention of the glass is achieved by the application of a co-extruded PVCu / nitrile wedge gasket between the inner face of the glass and the bead or frame.

Sapa's policy is one of continual system development and we reserve the right to incorporate design improvements and changes. Every effort is made to ensure that all details are correct at time of publication. However, it is the responsibility of the customer to check the accuracy of the relevant facts and information before entering into any contract or other commitment. Up to date information is freely available from the Sapa Building Systems Webshop.

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Crown 98mm Patio Door

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Weather Performance

When tested in accordance with BS6375:Part 1:2009 The products listed in this manual, when manufactured installed and glazed strictly to the enclosed details, will meet UK exposure category 800.

Water Tightness	Class 7A
Air Permeability	Class 2 (
Wind Resistance	Class A2

Class 7A (300 Pascals) Class 2 (300 Pascals) Class A2 (800 Pascals)**

** Exposure category varies with Width/Height of door. An accurate figure can be obtained using BS6399:Part 2 calculations and inertia values given on page 2-11.

Thermal Performance

Crown 98mm Patio Doors can meet and surpass the area weighted average U values stipulated in Part L of the Building Regulations. Lower U-values can be achieved using double glazed units with enhanced thermal insulation, such as 'soft coat' low emissivity glass, argon gas filling and thermally enhanced spacer bar.

Size Limitations

Note

All sizes given are in millimetres, and relate to the overall size of the outerframe of doors with equal split panes.

Maximum height = 2500

Minimum height = 1830

2 Pane

Maximum width = 3205 Minimum width = 1505

3 Pane (OXO) Maximum width = 4761

Minimum width = 2208

3 Pane (XOX) Maximum width = 4823

Minimum width = 2272

4 Pane Maximum width = 6353 Minimum width = 2949

Max weight per sliding panel = 120Kg.

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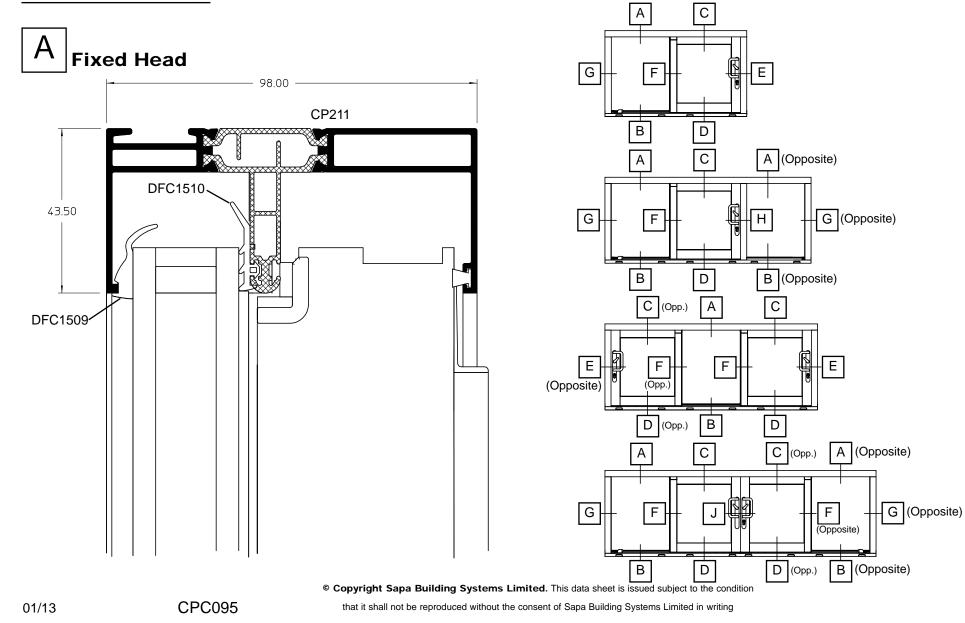
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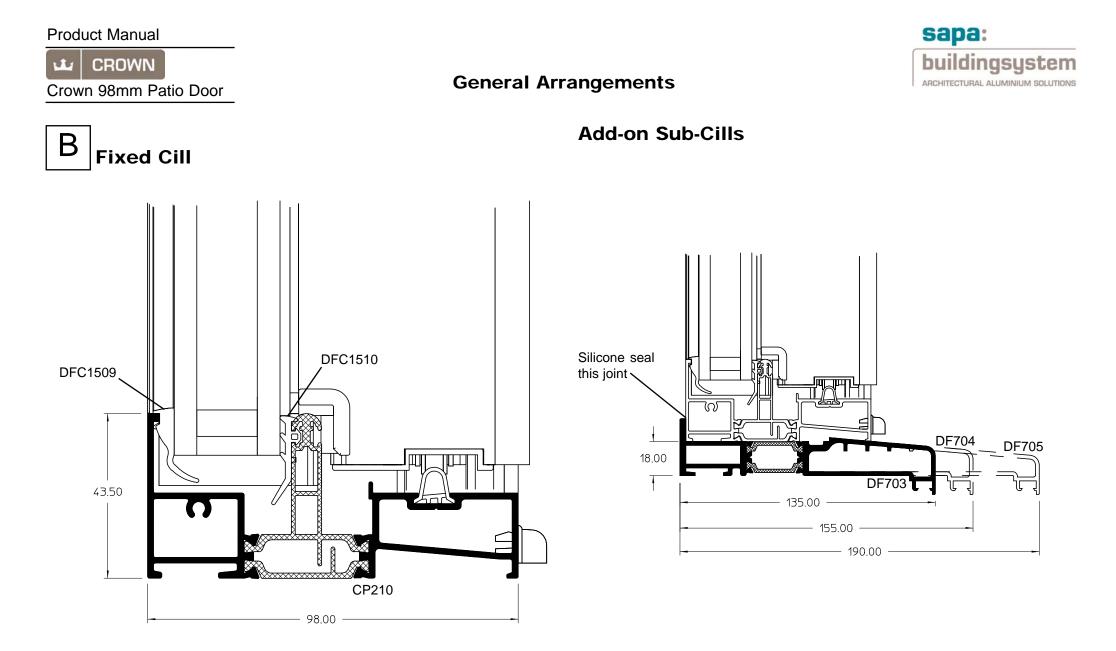
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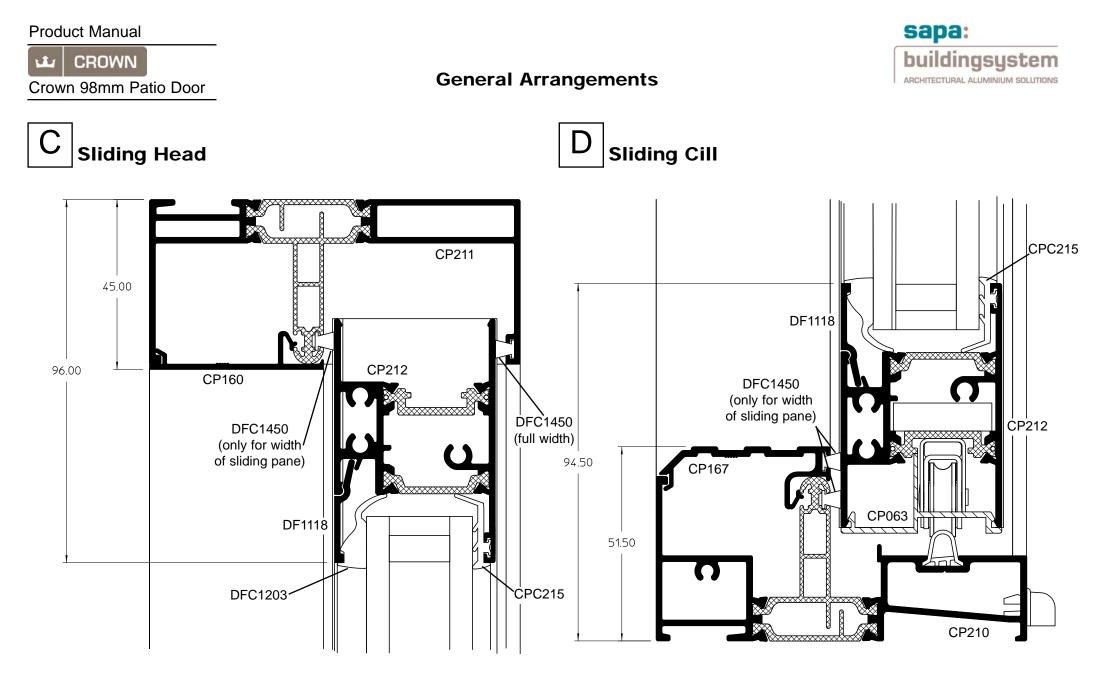






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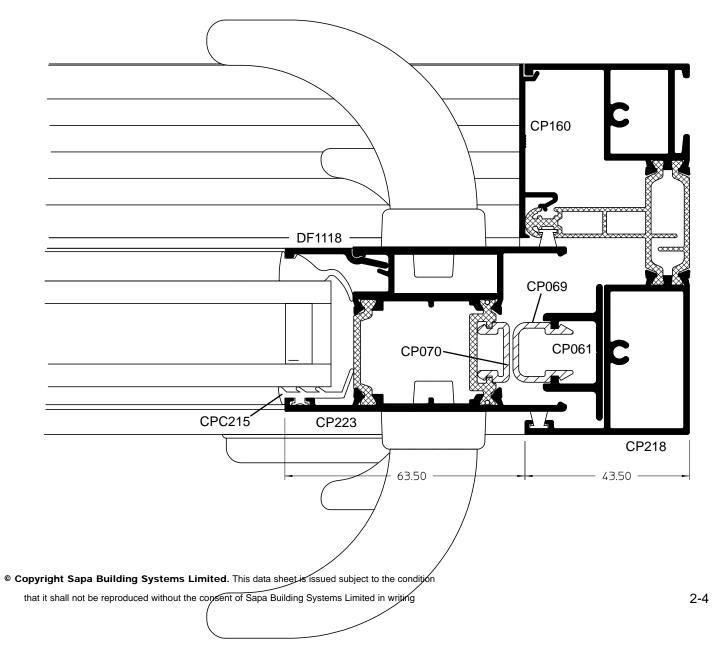
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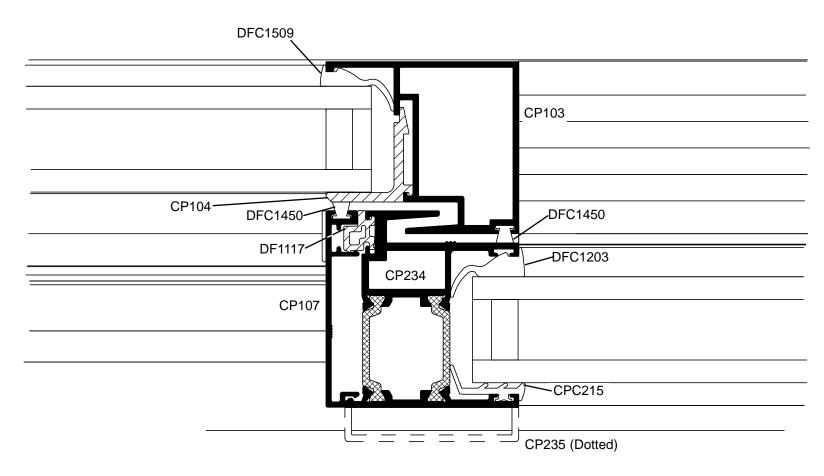
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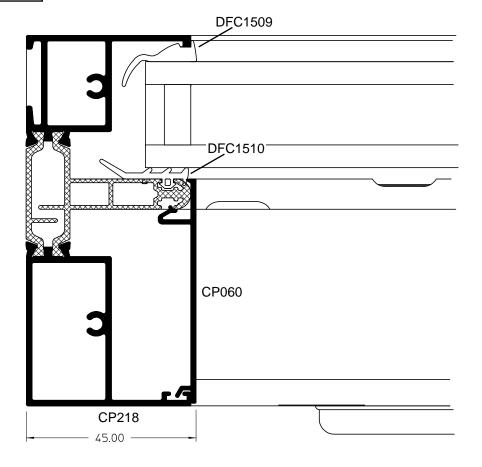
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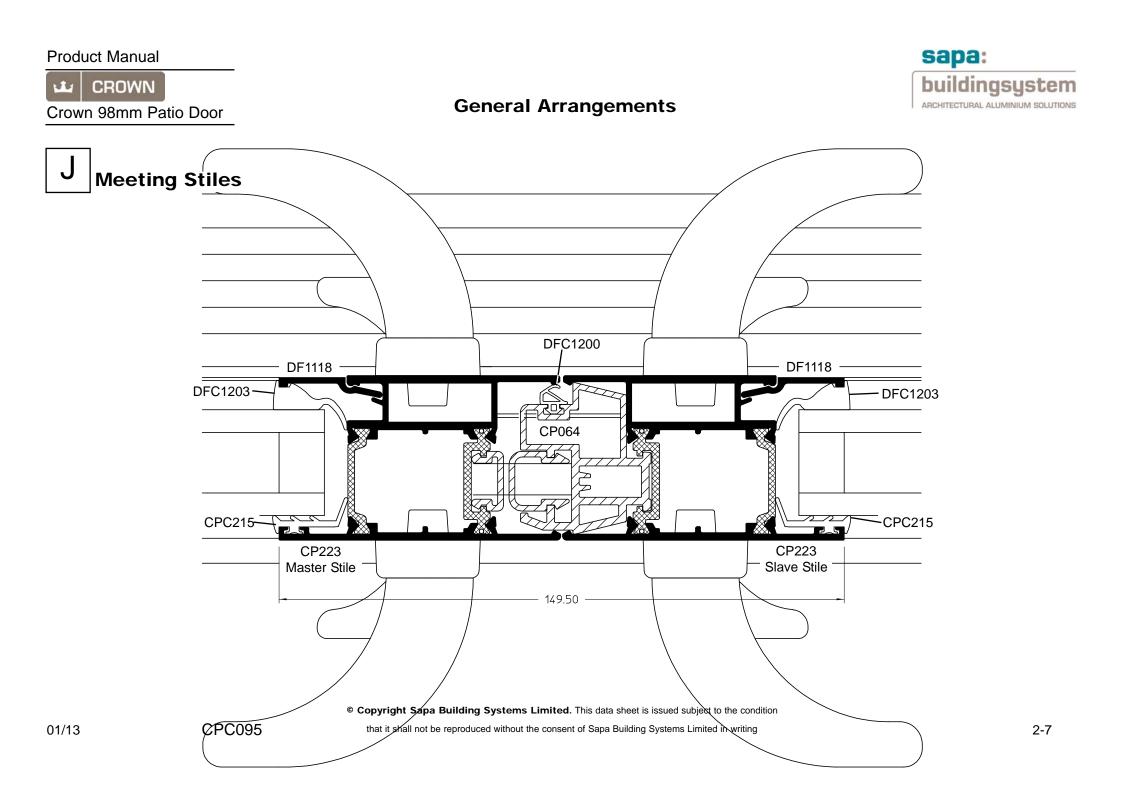
G Fixed Jamb



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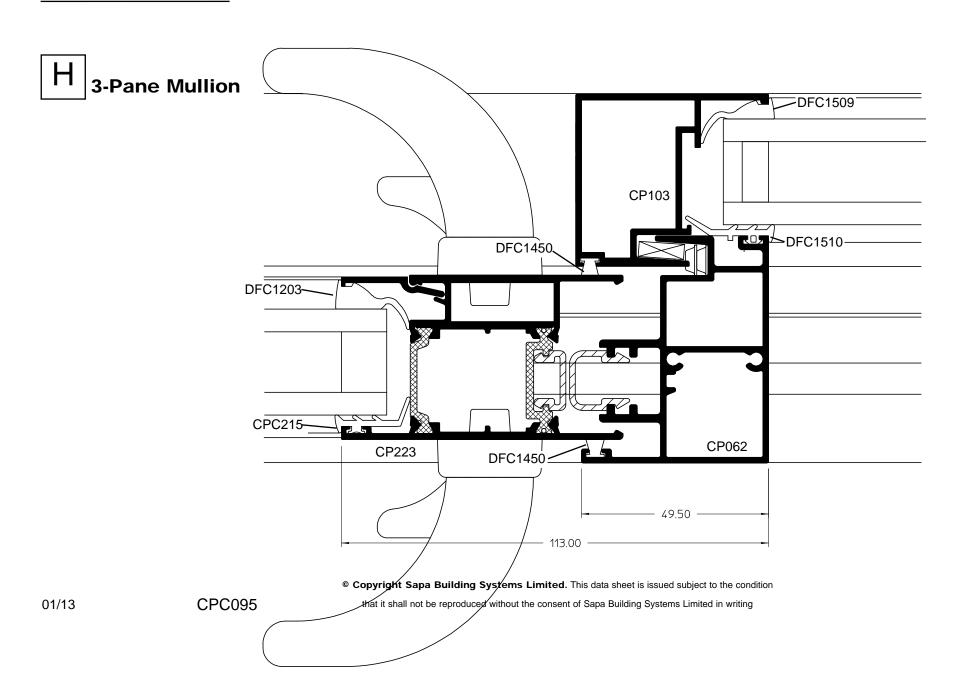
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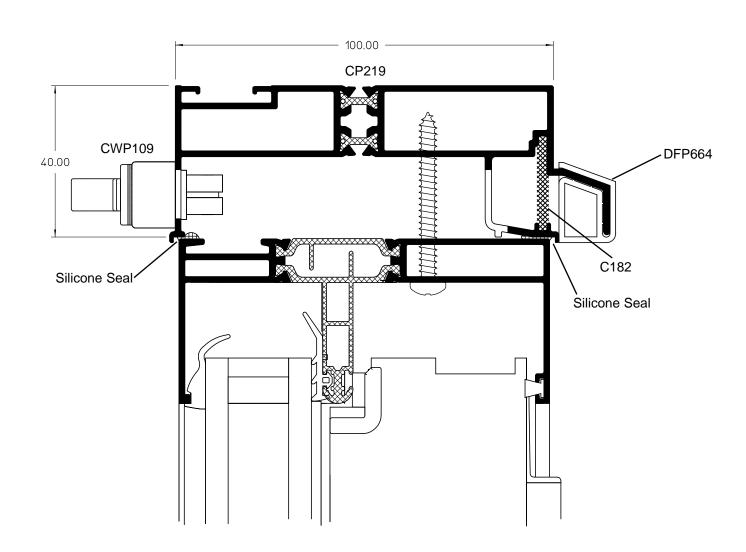
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Trickle Vent

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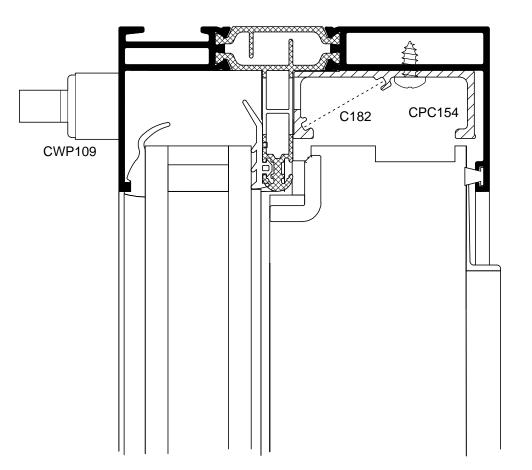
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Concealed Trickle Vent



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Profile Inertia Values



This page gives information on the inertia values of the framing profiles calculated in accordance with :- BS EN 14024 : 2004.

BS6399 Part 2 must be used to calculate the inertia value required.

The table gives inertia values for varying spans of profile.

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Select the nearest span BELOW the actual span and use the value shown to compare against the inertia required.

Profile	CP062	CP103	CP223	CP234	CP235	
Values shown are mm ⁴	¹	Ū,		E	Ē	
	Inertia Ixx	Inertia Ixx	Inertia Ixx	Inertia Ixx	Inertia Ixx	
Span 1850mm			94 075	99 124	158 930	
Span 1900mm			95 379	100 270	161 481	
Span 1950mm			96 629	101 318	163 861	
Span 2000mm			97 913	102 324	166 050	
Span 2050mm			99 040	103 286	168 299	
Span 2100mm		90 111	100 194	104 200	170 335	
Span 2150mm	180 182		90 111	101 176	105 064	172 420
Span 2200mm	100 102			102 177	105 874	174 269
Span 2250mm			103 199	106 627	176 158	
Span 2300mm			104 031	107 391	177 789	
Span 2350mm			104 984	108 096	179 450	
Span 2400mm			105 736	108 737	181 143	
Span 2450mm			106 610	109 387	182 709	
Span 2500mm			107 387	110 044	184 143	
Inertia Iyy	99 054	55 611	127 100	45 700	74 800	

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Parts List - Profiles

NOTE - 'A' ref after some profiles relates to reference for SP/SP finish only

Illustration	Part No.	Description	Illustration	Part No.	Description	Illustration	Part No.	Description
الم ال	CP060	Outerframe Closer (on fixed jamb)	5 ⁻ FC	CP107	Interlock Capping	ήΓ	CP234	Standard Outer Interlock
ŢŢ	CP061	Lock Jamb Adaptor	<u>ज</u> ्र	CP160	Outerframe Closer (on lock jamb & head)	Ţ	CP235	Heavy Duty Outer Interlock
	CP062	3-Pane Mullion	<u>ک</u> ے ک	CP167	Threshold Closer		DF1117	Outer Interlock Insulator
J	CP063	Bottom Rail Liner (PVC)		CP210	Cill	ļ	DF1118	Bead
	CP064	4-Pane Meeting Stile Adaptor (PVC)		CP211	Head	\square	C1193	Stainless Steel Track
	CP069	Jamb Trim		CP212	Rail			
FFF F	CP070	Stile Trim		CP218	Jamb			
۲ <u>۲</u>	CP103	Fixed Interlock	Ĕ ĨĨ	CP219	Trickle Vent Body			
Jun and a start of the start of	CP104	Fixed Interlock Bead (PVCu)		CP223	Lock Stile			

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Parts List - Gaskets & Weather Seals



Illustration	Part No.	Description			
¢		Bulb Seal - 10m (Black)			
	DFC1450	4.8 x 7 Woolpile with Fin - 12m (Grey)			
	DFC1509	4-5mm Wedge Gasket With Leg - 8.5m (Red ID)			
	DFC1510	3mm Retained Gasket - 8.5m			
	DFC1203	6-7mm Wedge Gasket With Leg - 8m (Black ID)			
۲ ۲	CPC215	3mm T Slot Retained Gasket - 8m (Grey ID)			

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Parts List - Hardware & Accessories

Illustration	Part No.	Description	Illustration	Part No.	Description		
	CPC154	Concealed Trickle Vent		CPP123	Heavy Duty Interlock End Cap (Pack 40) (W / BK)		
	CPP100	Patio Multipoint Lock (Pack 10) (6 Hooks)		CPP151	Bump Stop (Pack 1) (W / E)		
		Patio Multipoint Lock Keep (Pack 10) (6 Hooks)		C182	Trickle Vent Mesh		
	CPP102	Handle Pack (Pack 1 or 10) (W / E / ES / G / PG / PS)	व ्यू क	CWP109	Trickle Vent Operator (Pack 10) (W / E / ES / SP)		
	CPP103	Patio Tandem Roller (Pack 50)		DFP664	Trickle Vent End Caps(Pack 25 Pairs) (BK)		
	('DD111	3 Pane Track Infill (Pack 10) (BK)					
	CPP112	Slave Handle Pack (Pack 1 or 10) (W / E / ES / G / PG / PS)					
		Standard Cylinder (Pack 15) (C / G)					
	CPP114	Thumbturn Cylinder (Pack 15) (C / G)					

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Parts List - Tooling

Illustration	Part No.	Description			
	CPC201	Drill Jig - Rail drainage & roller fixing holes.			
2 8 8	CPC202	Drill Jig - Stile to rail fixing holes.			
	CPC203	Drill Jig - 4 Pane adaptor fixing holes.			
	CPC205	Drill Jig - 98mm Fixed Interlock Top & Bottom Prep			
and the second s	CPC210	Drill Jig - 98mm Jambs & 3 pane mullion to head & cill fixing holes.			
	CPC214	Drill Jig - 98mm Bump stop fixing holes & Track Drainage			

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Parts List - Accessory Pack Contents

	CPP135 - 2 Pane Acc	essroy	Pack	CP	P136 - 3 Pane OXO	Accesso	ory Pack
Part Number	Description	Quantity	Illustration / Where Used	Part Number	Description	Quantity	Illustration / Where Used
325/2/WE 325/2/BK	Drain Hole Cover - White Drain Hole Cover - Black	4 4	Ð	325/2/WE 325/2/BK	Drain Hole Cover - White Drain Hole Cover - Black	6 6	e C
C1244	Anti-Lift Shim	6	$\langle \rangle$	C1244	Anti-Lift Shim	6	$\langle \rangle$
C3101	Patio Cill Infill - 65mm	2		C3101	Patio Cill Infill - 65mm	1	
CPC105	Stile to Rail Clamp Plate	4	le .	CPC105	Stile to Rail Clamp Plate	4	e ad
CPC106	Lock / Roller Fixing Tap Plate	2		CPC106	Lock / Roller Fixing Tap Plate	2	
CPC108	Cill End Plug	5		CPC108	Cill End Plug	6	
CPC109/W CPC109/BK	9.5mm Hole Plug - White 9.5mm Hole Plug - Black	2 2	0	CPC109/W CPC109/BK	9.5mm Hole Plug - White 9.5mm Hole Plug - Black	6 6	0
CPC122	5mm Hole Plug	2		CPC122	5mm Hole Plug	2	() ()
CPC126	Cill End Plug	2		CPC126	Cill End Plug	2	
DFC1400/W DFC1400/BK	Interlock End Moulding (RH) - White Interlock End Moulding (RH) - Black	1 1		DFC1400/W DFC1400/BK	Interlock End Moulding (RH) - White Interlock End Moulding (RH) - Black	1 1	
DFC1401/W DFC1401/BK	Interlock End Moulding (LH) - White Interlock End Moulding (LH) - Black	1 1		DFC1401/W DFC1401/BK	Interlock End Moulding (LH) - White Interlock End Moulding (LH) - Black	1 1	
DFP1402	Cill End Plug (In Polyamide)	4		DFP1402	Cill End Plug (In Polyamide)	4	
DFC1415	6mm Glazing Packer	4		DFC1415	6mm Glazing Packer	4	
DFC1425	8mm Glazing Packer (used as interlock capping packer)	4		DFC1425	8mm Glazing Packer (used as interlock capping packer)	4	
DFC1699	4.3 x 25mm Csk Pozi PA Self Drill Self Tapper	14	Lock Fixing	DFC1699	4.3 x 25mm Csk Pozi PA Self Drill Self Tapper	14	Lock Fixing
ST81PPSS	No. 8 x 1* Pan Pozi Self Tapper	12	Outerframe Corner Jointing & Roller Fixing	ST81PPSS	No. 8 x 1* Pan Pozi Self Tapper	16	Jointing & 3-Pane Mullion Fixing & Roller
ST10112XPSS	No 10 x 11/2* Pan Torx Self Tapper	6	Outer Interlock ro Rail Fixing	ST10112XPSS	No 10 x 11/2* Pan Torx Self Tapper	6	Outer Interlock ro Rail Fixing
ST812PPSS	No. 8 x 1/2" Pan Self Tapper	1	DFC1425 Fixing	ST812PPSS	No. 8 x 1/2" Pan Self Tapper	1	DFC1425 Fixing
ST10134PPSS	No. 10 x 1 3/4" Pan Pozi Self Tapper	6	Lock Stile to Rail Fixing	CPC124	4 Pane Over-run Buffer (used as 3 pane mullion packer)	4	Ø
ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	2	Keep Fixing	ST10134PPSS	No. 10 x 1 3/4" Pan Pozi Self Tapper	6	Lock Stile to Rail Fixing
ST10114CPSS	No. 10 x 1 1/4" Csk Pozi Self Tapper	10	Anti Lift Block & Bump Stop & Anti-Jemi Plate Fixing	ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	2	Keep Fixing
ST1034PPSS	No. 10 x 3/4" Pan Pozi Self Tapper	6	Fixed Interlock Retaining Brkt Fixing	ST10114CPSS	No. 10 x 1 1/4" Csk Pozi Self Tapper	10	Anti Lift Block & Bump Stop & Anti-Jemi Plate Fixing
ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	12	Keep Fixing	ST1034PPSS	No. 10 x 3/4" Pan Pozi Self Tapper	12	Fixed Pane Retaining Brkt Fixing
CPC125	Fixed Interlock Retaining Bracket	2		ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	12	Keep Fixing
CPC127	32 x 5 x 100 Glazing Packer	4		CPC125	Fixed Interlock Retaining Bracket	4	
CPC129	Anti-Jemi Plate	2		CPC127	32 x 5 x 100 Glazing Packer	8	
CWC115	Anti-Lift Block	8		CPC129	Anti-Jemi Plate	2	
				CWC115	Anti-Lift Block	8	(FEEE)

	CPP137 - 4 Pane Acc	cessory		CPP146 - 3 Pane XOX Accessory Pack				
Part Number	Description	Quantity	Illustration / Where Used	Part Number	Description	Quantity	Illustration / Where Used	
325/2/WE 325/2/BK	Drain Hole Cover - White Drain Hole Cover - Black	8 8	Ð	325/2/WE 325/2/BK	Drain Hole Cover - White Drain Hole Cover - Black	6 6	Ø	
C1244	Anti-Lift Shim	6	$\langle \rangle$	C1244	Anti-Lift Shim	6	$\langle \rangle$	
C3101	Patio Cill Infill - 65mm	2		C3101	Patio Cill Infill - 65mm	2		
CPC105	Stile to Rail Clamp Plate	8	e al	CPC105	Stile to Rail Clamp Plate	8	le of	
CPC106	Lock / Roller Fixing Tap Plate	4		CPC106	Lock / Roller Fixing Tap Plate	4		
CPC108	Cill End Plug	6		CPC108	Cill End Plug	6		
CPC109/W CPC109/BK	9.5mm Hole Plug - White 9.5mm Hole Plug - Black	4 4	0	CPC109/W CPC109/BK	9.5mm Hole Plug - White 9.5mm Hole Plug - Black	4 4	0	
CPC126	Cill End Plug	2	\bigcirc	CPC126	Cill End Plug	2	\bigcirc	
DFC1400/W DFC1400/BK	Interlock End Moulding (RH) - White Interlock End Moulding (RH) - Black	2 2		DFC1400/W DFC1400/BK	Interlock End Moulding (RH) - White Interlock End Moulding (RH) - Black	2 2		
DFC1401/W DFC1401/BK	Interlock End Moulding (LH) - White Interlock End Moulding (LH) - Black	2		DFC1401/W DFC1401/BK	Interlock End Moulding (LH) - White Interlock End Moulding (LH) - Black	2		
DFP1402	Cill End Plug (In Polyamide)	4		DFP1402	Cill End Plug (In Polyamide)	4		
DFC1415	6mm Glazing Packer	8		DFC1415	6mm Glazing Packer	8		
DFC1425	8mm Glazing Packer (used as interlock capping packer)	4		DFC1425	8mm Glazing Packer (used as interlock capping packer)	4		
DFC1699	4.3 x 25mm Csk Pozi PA Self Drill Self Tapper	14	Lock Fixing	DFC1699	4.3 x 25mm Csk Pozi PA Self Drill Self Tapper	28	Lock Fixing	
ST81PPSS	No. 8 x 1" Pan Pozi Self Tapper	22	Outerframe Corner Jointing & Roller Fixing	ST81PPSS	No. 8 x 1" Pan Pozi Self Tapper	8	Outerframe Corner Jointing & Roller Fixing	
ST10112XPSS	No 10 x 11/2" Pan Torx Self Tapper	12	Outer Interlock ro Rail Fixing	ST10112XPSS	No 10 x 11/2" Pan Torx Self Tapper	12	Outer Interlock ro Rai Fixing	
ST812PPSS	No. 8 x 1/2* Pan Self Tapper	1	DFC1425 Fixing	ST812PPSS	No. 8 x 1/2* Pan Self Tapper	1	DFC1425 Fixing	
CPC124	4 Pane Over-run Buffer	4	Q	ST10134PPSS	No. 10 x 1 3/4" Pan Pozi Self Tapper	12	Lock Stile to Rail Fixing	
ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	2	Keep Fixing	ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	4	Keep Fixing	
ST10134PPSS	No. 10 x 1 3/4" Pan Pozi Self Tapper	12	Lock Stile to Rail Fixing	ST10114CPSS	No. 10 x 1 1/4" Csk Pozi Self Tapper	20	Anti Lift Block & Bump Stop & Anti-Jemi Plate Fixing	
ST10114CPSS	No. 10 x 1 1/4" Csk Pozi Self Tapper	18	Anti Lift Block & Bump Stop & Anti-Jemi Plate Fixing	ST1034PPSS	No. 10 x 3/4* Pan Pozi Self Tapper	16	Fixed Interlock Retaining Brkt Fixing	
ST1034PPSS	No. 10 x 3/4* Pan Pozi Self Tapper	12	Fixed Interlock Retaining Brkt Fixing	ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	24	Keep Fixing	
ST8112CPSS	No. 8 x 1 1/2" Csk Pozi Self Tapper	12	Keep Fixing	CPC125	Fixed Interlock Retaining Bracket	4		
CPC125	Fixed Interlock Retaining Bracket	4		CPC127	32 x 5 x 100 Glazing Packer	4		
CPC127	32 x 5 x 100 Glazing Packer	8		CPC129	Anti-Jemi Plate	4		
CPC129	Anti-Jemi Plate	4		CWC115	Anti-Lift Block	16		
CWC115	Anti-Lift Block	12		L				

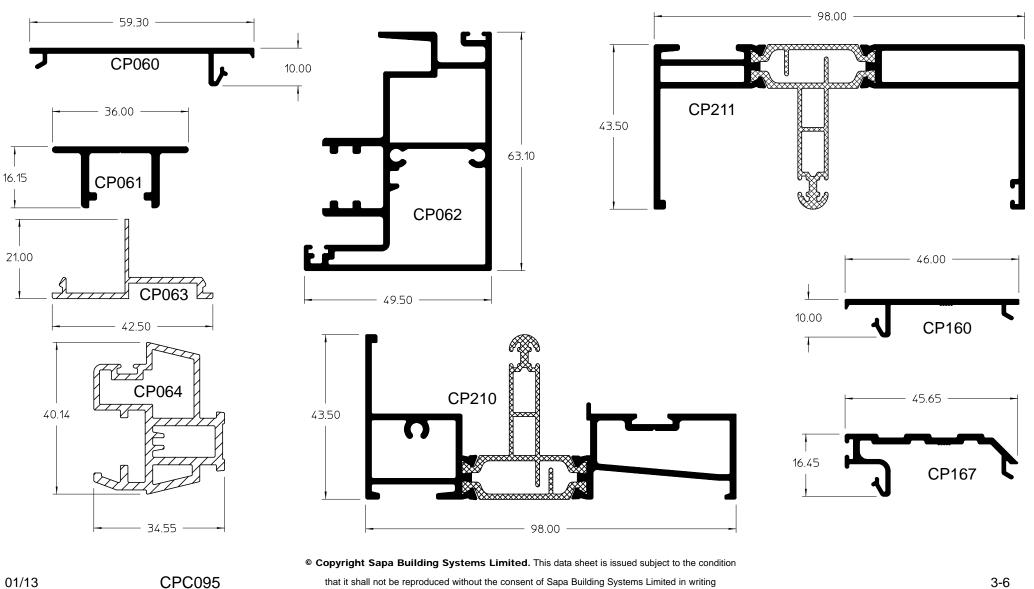
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Profile Identification

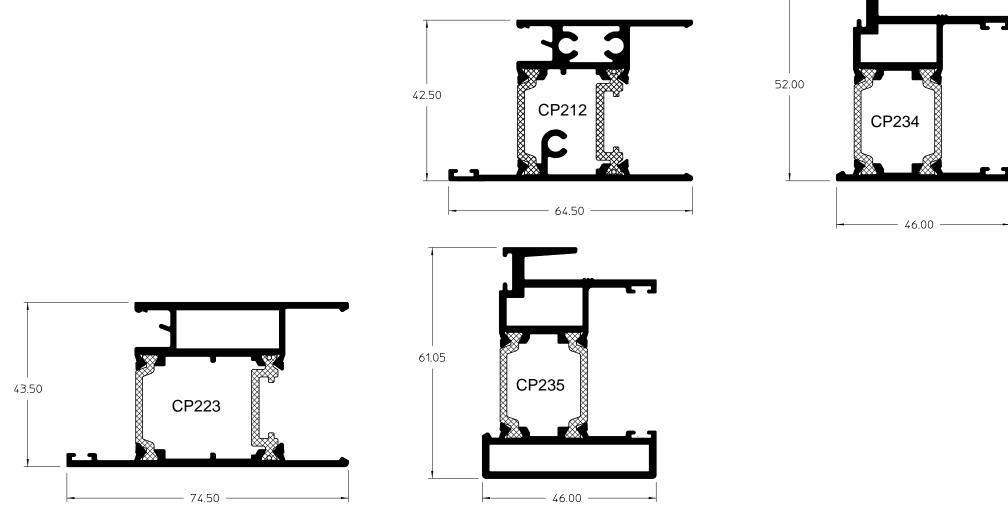
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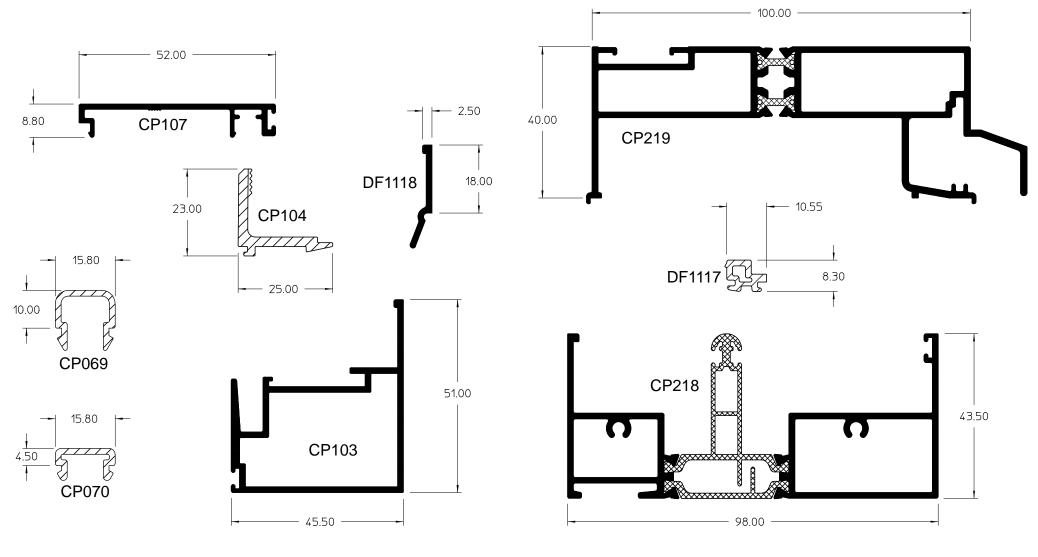
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Preparation for Fabrication



Establishing Dimensions

It is essential that work sizes are based on correct site dimensions and with adequate clearances around the door to allow for correct positioning/fixing.

Preliminaries

Ensure that the door design is within the parameters given in the specification. Ascertain the vertical and horizontal work sizes for each individual door unit. Ascertain the basic window design i.e. number and positions of panes. The correct interlock profile required can be calculated using BS6399:Part 2 and inertia value calculation sheet on page 2-11.

Metal and Glass Cutting

Refer to the data and diagrams on the subsequent pages to determine all bar lengths and glass sizes.

All patio doors are supplied in either cut to size kits or standard size kits for cutting down to suit actual door required. When cutting down kit, any end preparations on bars must be completely removed and re-prepared on the cut end.

Details of actual end preparation required are fully detailed for individual profiles on the following pages. Also detailed are the position and size of any holes and the appropriate tooling.

Cutting Calculations

Formulae are given below for 2 pane (OX or XO), 3 pane (OXO & XOX) & 4 pane (OXXO) doors. (W refers to overall frame width, H refers to overall frame height).

Metal tolerance of plus or minus 0.5mm - Glass tolerance of plus 0mm, minus 3.0mm.

Component	2 Pane	3 Pane OXO	3 Pane XOX	4 Pane
Head & Cill	W	W	W	W
Head & Threshold Closer	(W-78)/2	(W-62)/3	(W-130)/3	(W-40)/2
All Rails	(W-129)/2	(W-145)/3	(W-208)/3	(W-195)/4
Bottom Rail Liner	(W+16)/2	(W+73)/3	(W+9.5)/3	(W+96)/4
SS Track	W-270	(W-251)/1.5	W-270	W-270
Horizontal Beads	(W-153)/2	(W-180)/3	(W-243)/3	(W-242)/4
Jamb	H-34	H-34	H-34	H-34
Lock Jamb Adaptor	H-36		H-36	
Lock Jamb Closer	H-87		H-87	
Fixed Jamb Closer	H-34	H-34		H-34
All Stiles & Interlocks	H-61.5	H-61.5	H-61.5	H-61.5
Fixed Interlock	H-49	H-49	H-49	H-49
Fixed Interlock Bead	H-86	H-86	H-86	H-86
Outer Interlock Cover	H-61.5	H-61.5	H-61.5	H-61.5
Outer Interlock Insulator	H-119.5	H-119.5	H-119.5	H-119.5
Vertical Beads	H-185.5	H-185.5	H-185.5	H-185.5
3 Pane Mullion		H-34		
4 Pane Adaptor				H-66
Glass Width	(W-153)/2)	(W-180)/3)	(W-243)/3	(W-242)/4)
Sliding Pane Glass Height	H-166	H-166	H-166	H-166
Fixed Pane Glass Height	H-64	H-64	H-64	H-64

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CROWN 111

Crown 98mm Patio Door

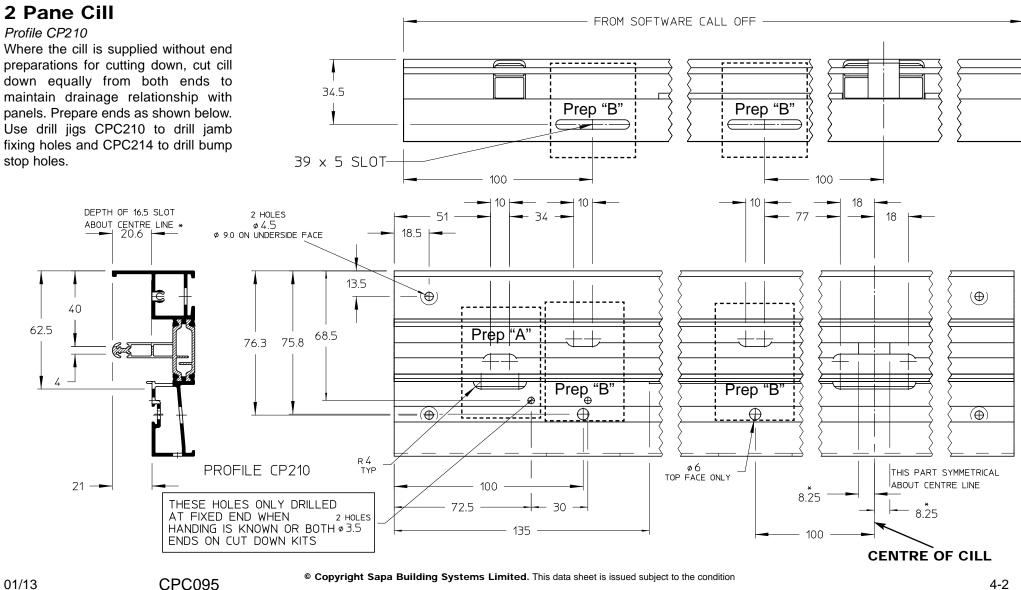
2 Pane Cill

Profile CP210

Where the cill is supplied without end preparations for cutting down, cut cill down equally from both ends to maintain drainage relationship with panels. Prepare ends as shown below. Use drill jigs CPC210 to drill jamb fixing holes and CPC214 to drill bump stop holes.

Machining Details - Outerframe



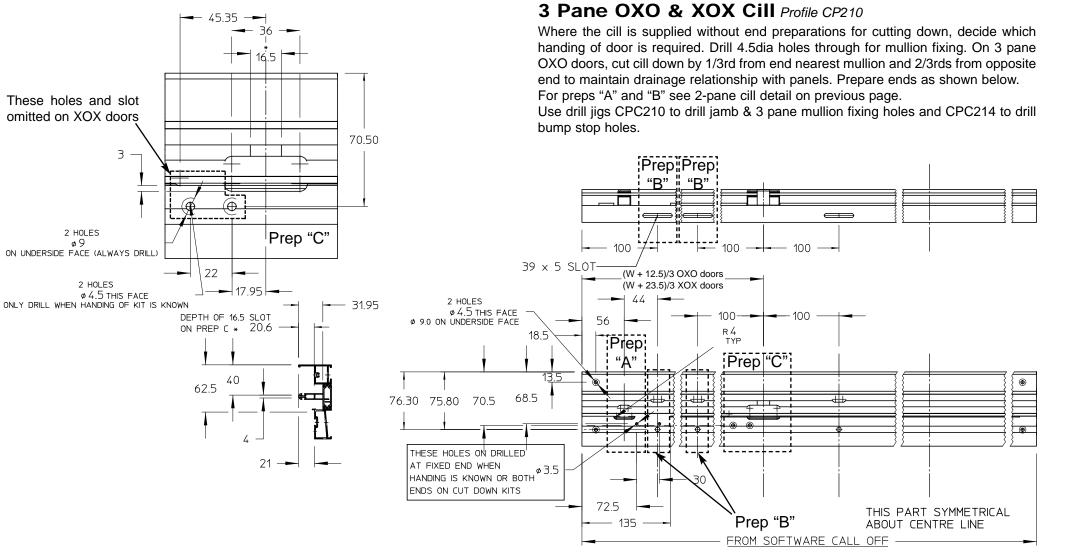


CROWN

Crown 98mm Patio Door

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Machining Details - Outerframe



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CROWN

Crown 98mm Patio Door

Machining Details - Outerframe



4-4

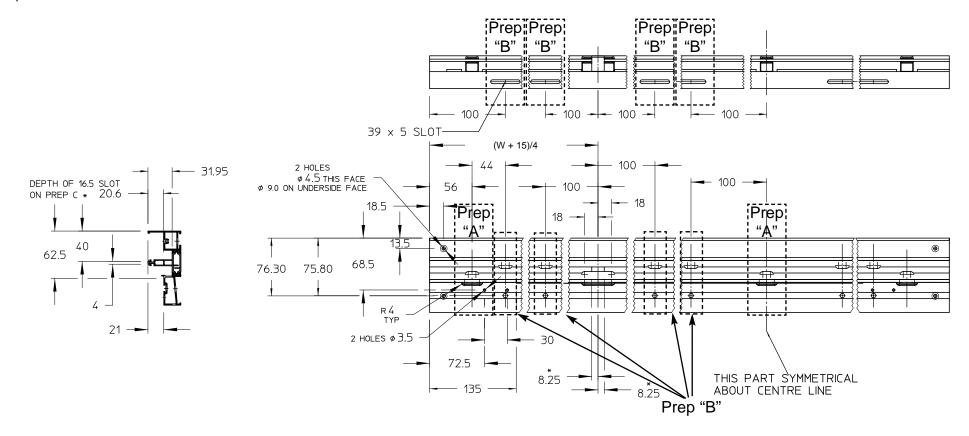
4 Pane Cill Profile CP210

Where the cill is supplied without end preparations for cutting down, cut cill down equally from both ends to maintain drainage relationship with panels. Prepare ends as shown above.

For preps "A" and "B" see 2-pane cill detail on page 4-2.

CPC095

Use drill jigs CPC210 to drill jamb fixing holes and CPC214 to drill bump stop holes.



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Crown 98mm Patio Door

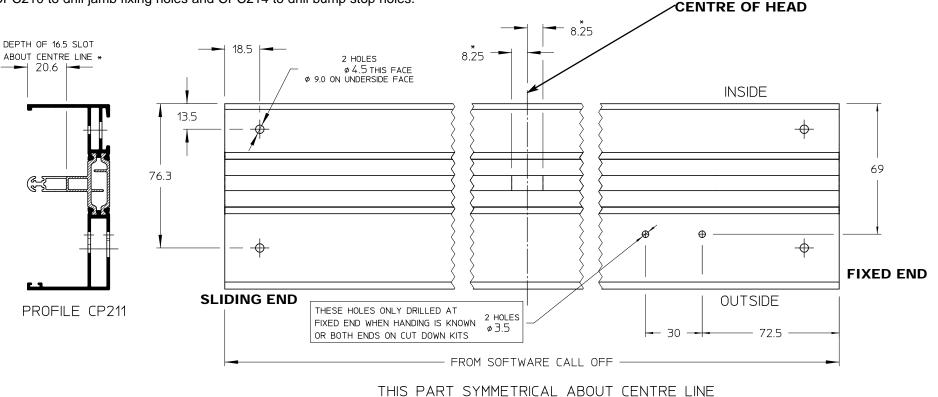
Machining Details - Outerframe



2 Pane Head Profile CP211

Where the head is supplied without end preparations for cutting down, cut head down equally from both ends. Prepare ends as shown below.

Use drill jigs CPC210 to drill jamb fixing holes and CPC214 to drill bump stop holes.



Product	Manual
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CROWN

Crown 98mm Patio Door

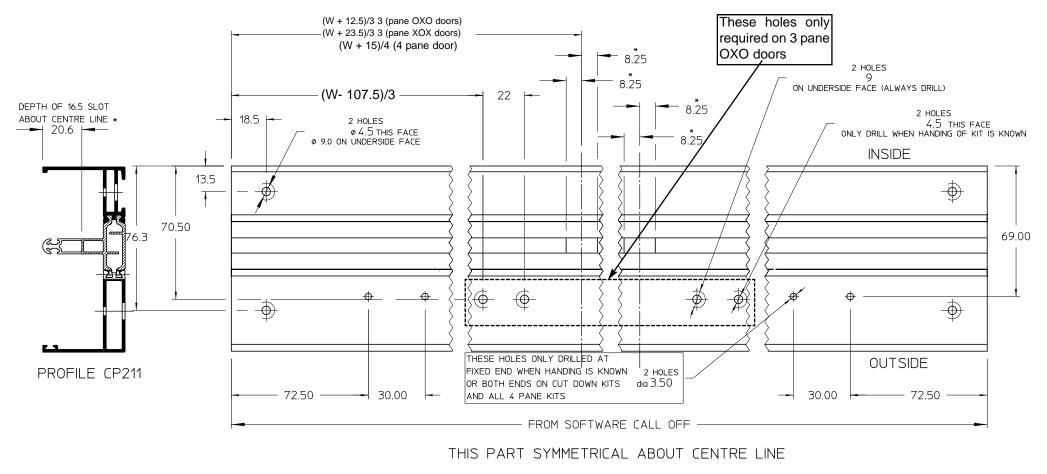
Machining Details - Outerframe



3 & 4 Pane Head Profile CP211

Where the head is supplied without end preparations for cutting down, decide which handing of door is required. Drill 4.5dia holes through for mullion fixing. On 3 pane OXO doors cut head down by 1/3rd from end nearest mullion and 2/3rds from opposite end to maintain drainage relationship with panels. On 4 pane doors, cut head down equally from both ends. Prepare ends as shown below.

Use drill jigs CPC210 to drill jamb and mullion fixing holes and CPC214 to drill bump stop holes.



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CPC095

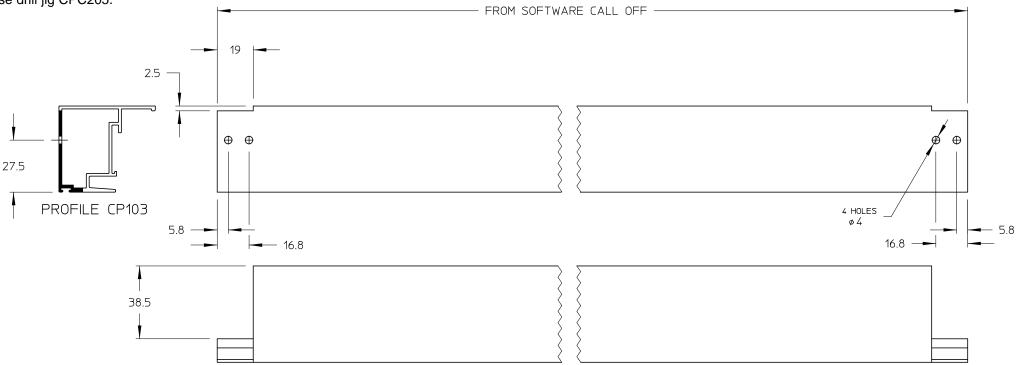
Crown 98mm Patio Door

Machining Details - Outerframe



Fixed Interlock Profile CP103

Where the interlock is supplied without preparations at one end for cutting down, cut interlock down from plain end then prepare end as shown below. Use drill jig CPC205.



THIS PART SYMMETRICAL ABOUT CENTRE LINE

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Crown 98mm Patio Door

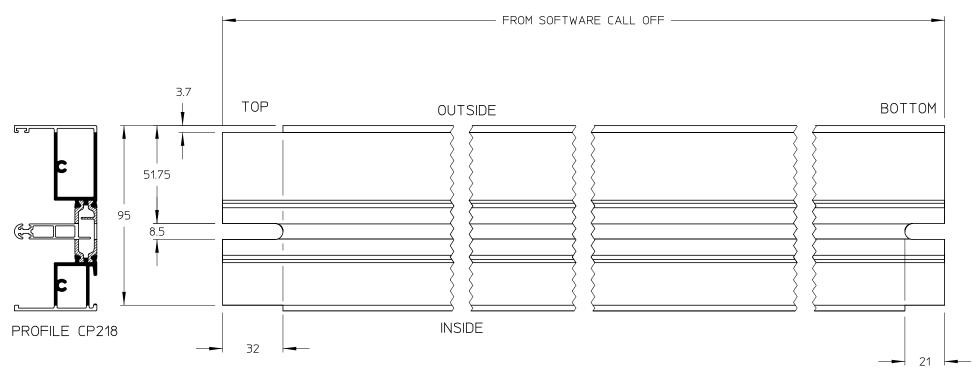
Machining Details - Outerframe



4-8

Jamb Profile CP218

Where jambs are supplied without end preparations for cutting down, prepare ends as shown below.



ONE OFF REQUIRED AS DRAWN, ONE OFF OPPOSITE HAND

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Crown 98mm Patio Door

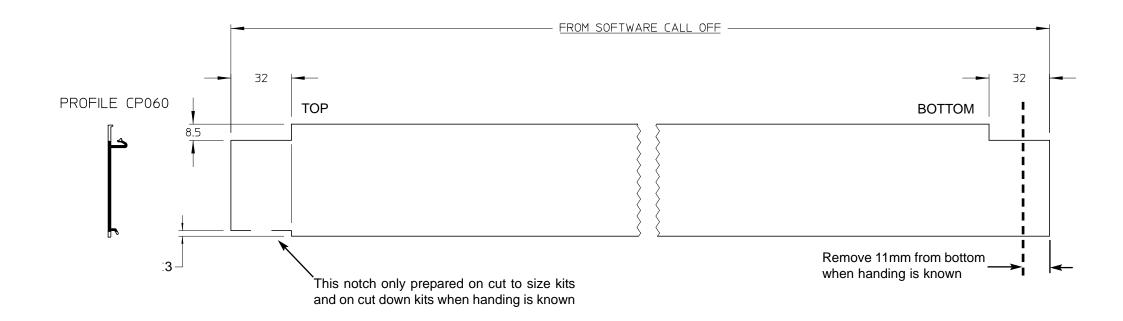
Machining Details - Outerframe



Fixed Jamb Closer Profile CP060

CPC095

Fixed jamb closers are always supplied 11mm over length and once handing is decided must be cut down by 11mm from the bottom. The 3×32 notch shown dotted is only prepared on cut to size kits. On cut down kits, it must be prepared once the handing is known.



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Product N	lanual
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Crown 98mm Patio Door

Machining Details - Panel



Rails Profile CP212

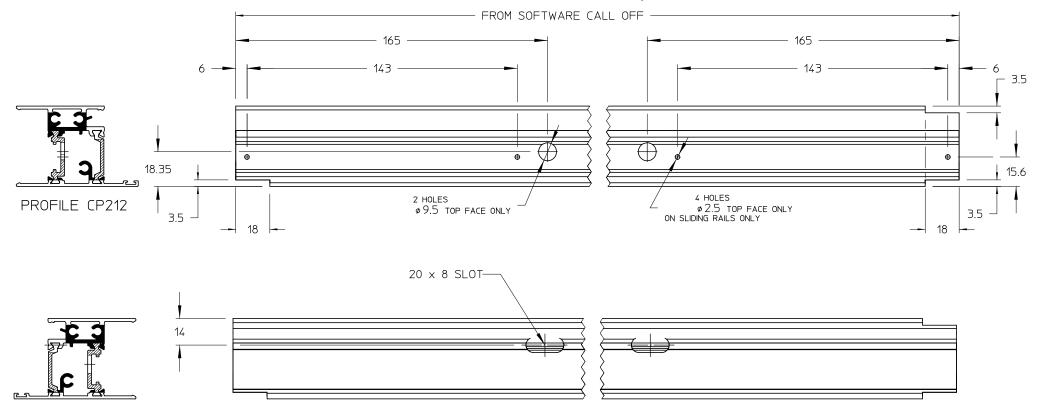
Where rails are supplied without end preparations for cutting down, prepare ends as shown below.

Use drill jig CPC201 to drill drainage & roller fixing holes.

2 PANE DOORS -1 OFF AS DRAWN, 1 OFF OPPOSITE HAND

3 PANE (OXO) DOORS -1 OFF AS DRAWN, 1 OFF OPPOSITE HAND

4 PANE DOORS -2 OFF AS DRAWN, 2 OFF OPPOSITE HAND



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CPC095

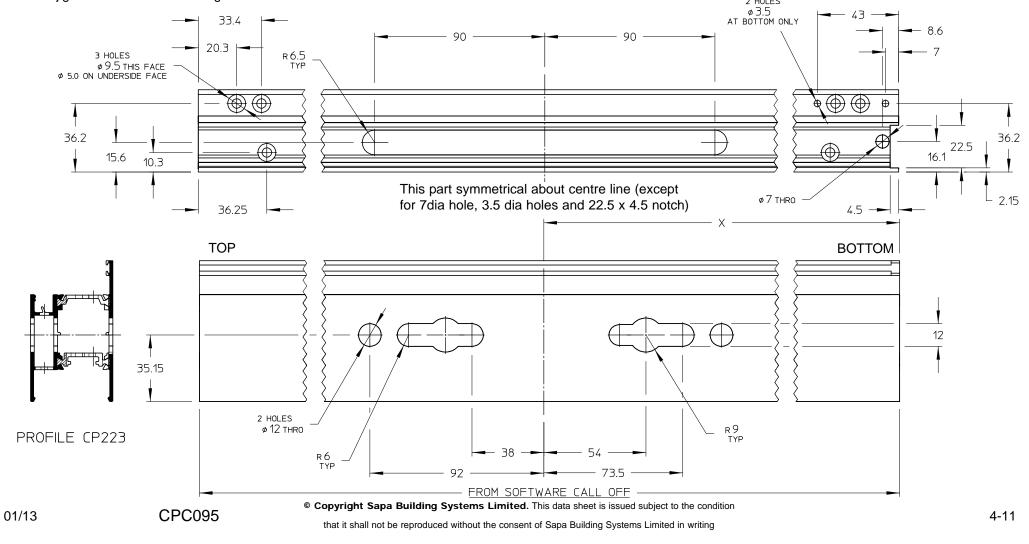
Crown 98mm Patio Door

Machining Details - Panel



Lock Stile Profiles CP223

Where the lock stile is supplied without end preparations for cutting down, prepare ends as shown below. On cut down kits, the lock preparation is always at the centre of the stile. On cut to size kits, the lock height from the underside of the cill is always 1031.5mm. In this case Dim "X" = 1001.5mm. Use drill jig CPC202 to drill rail fixing holes.



Product	Manual
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CROWN

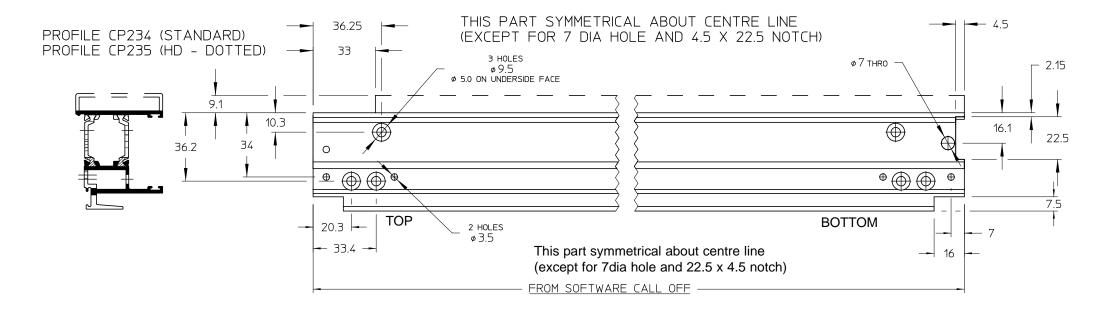
Crown 98mm Patio Door

Machining Details - Panel



Outer (Sliding) Interlock Profile CP234 or CP235

Where the outer Interlock is supplied without end preparations for cutting down, prepare ends as shown below. Use drill jig CPC202 to drill rail fixing holes.



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Crown 98mm Patio Door

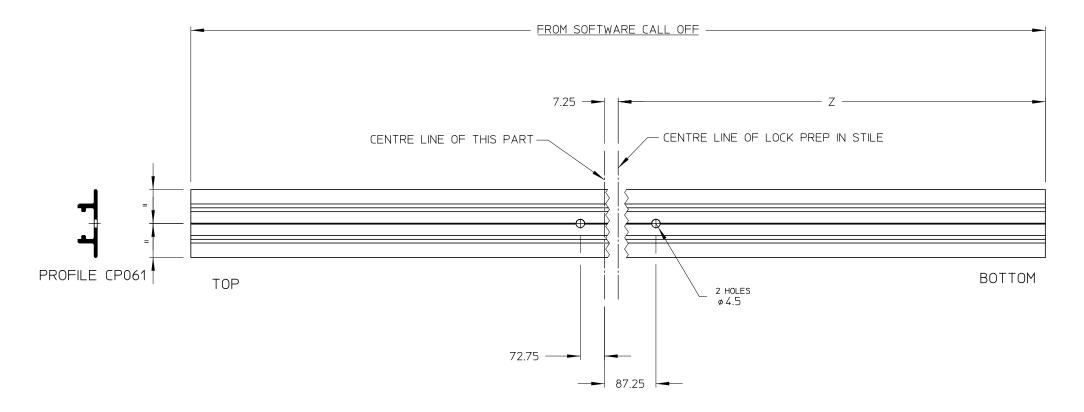
Machining Details - Panel



Lock Jamb Adaptor Profile CP061

CPC095

On non-handed kits, the keep preparation is always 7.25mm below the centre of the adaptor (as shown below). On cut to size kits, the lock height from the underside of the cill is always 1036mm. In this case Dim "Z" = 1010mm.



Product	Manual
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Crown 98mm Patio Door

Machining Details - Panel

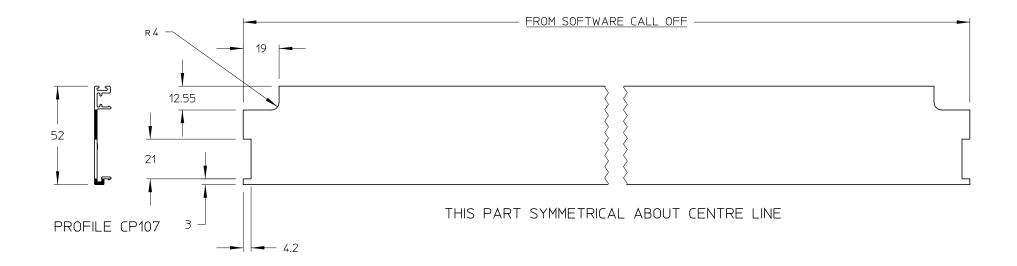


4-14

Outer Interlock Cover Profile CP107

CPC095

Where the interlock cover is supplied without end preparations for cutting down, prepare ends as shown below.



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CROWN 11

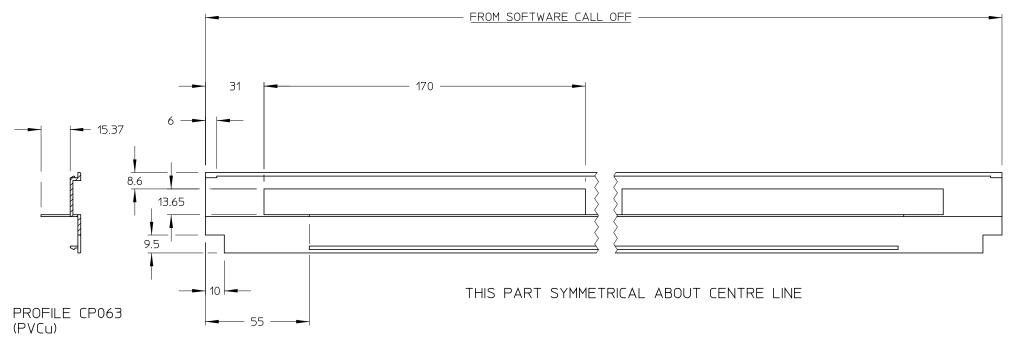
Crown 98mm Patio Door

Machining Details - Panel



Bottom Rail Liner Profile CP063

The bottom rail liner is always supplied fully prepared. Where it is required to be cut down, remove the correct amount from the centre of the bar and butt joint it at the centre.



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CPC095

Product	Manual
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Crown 98mm Patio Door

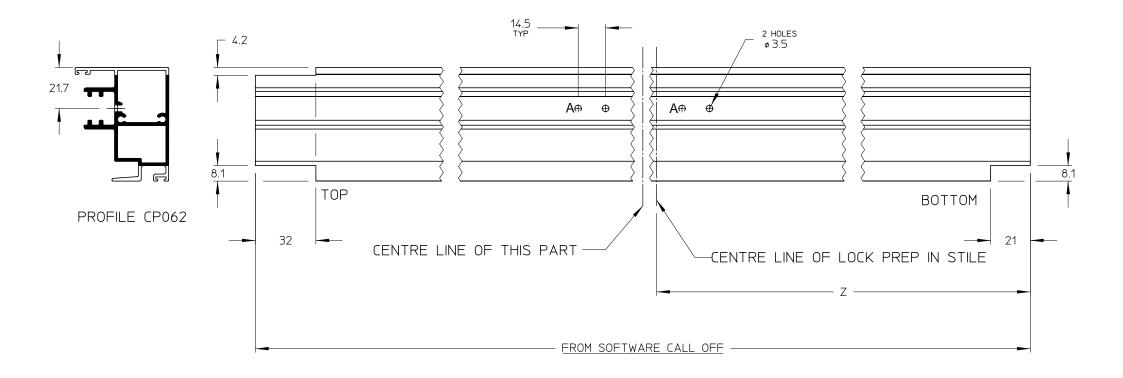
Machining Details - Panel



3 Pane Mullion Profile CP062

Where the 3 pane mullion is supplied without end preparations for cutting down, prepare ends as shown below. On non-handed kits, the keep preparation is always 7.25mm below the centre of the mullion and in addition, holes "A" are drilled 7.25 above the centre line (as shown below). On cut to size kits, the lock height from the underside of the cill is always 1036mm and in this case holes "A" are omitted.

In this case Dim "Z" = 1010mm.



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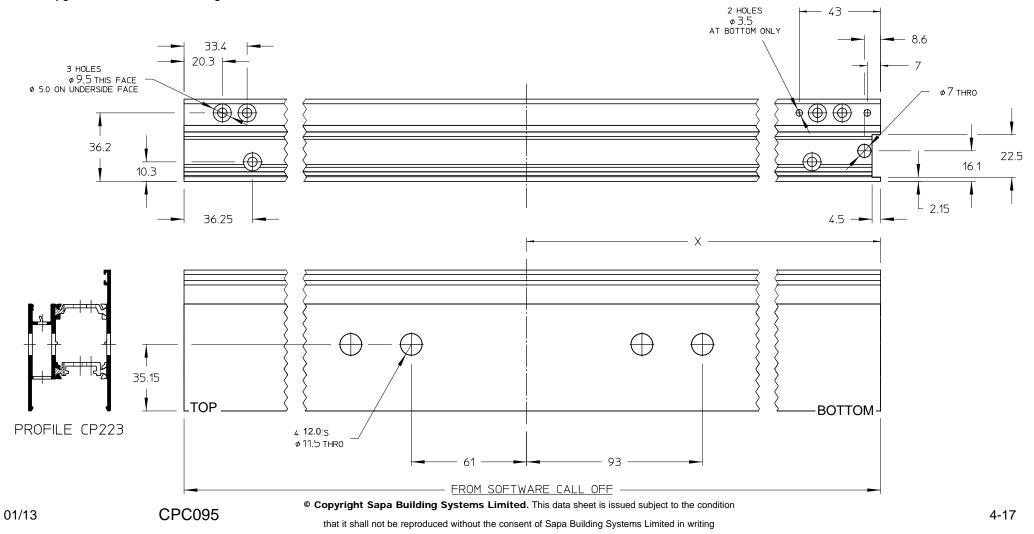
Crown 98mm Patio Door

Machining Details - Panel



Meeting Stile Profiles CP223

Where the slave stile is supplied without end preparations for cutting down, prepare ends as shown below. On cut down kits, the lock preparation is always at the centre of the stile. On cut to size kits, the lock height from the underside of the cill is always 1031.5mm. In this case Dim "X" = 1002.5mm. Use drill rail fixing holes.



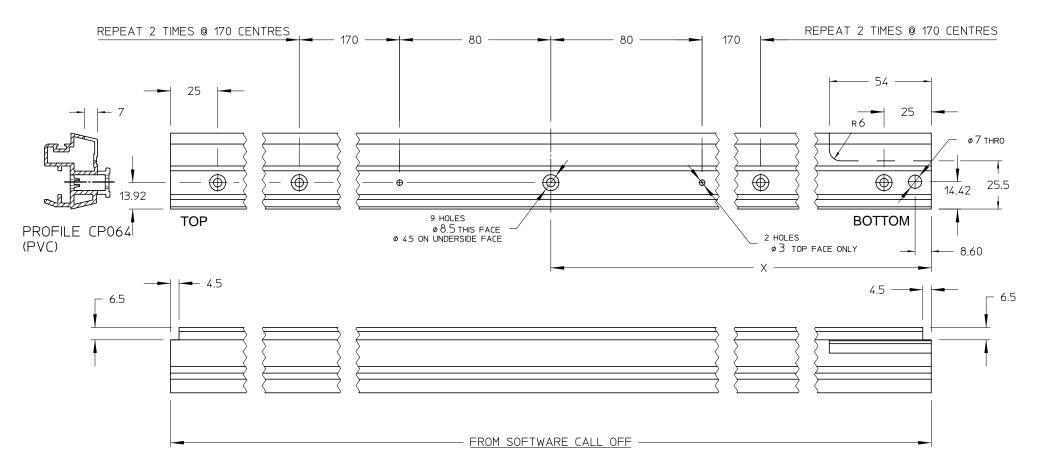
Crown 98mm Patio Door

Machining Details - Panel



4 Pane Meeting Stile Adaptor Profile CP064

Where the meeting stile adaptor is supplied without end preparations for cutting down, prepare ends as shown below. On non-handed kits, the lock preparation is always at the centre of the stile. On cut to size kits, the lock height from the underside of the cill is always 1036mm. In this case Dim "X" = 1002.5mm. Use drill jig CPC203 to drill fixing holes.



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CPC095



Crown 98mm Patio Door

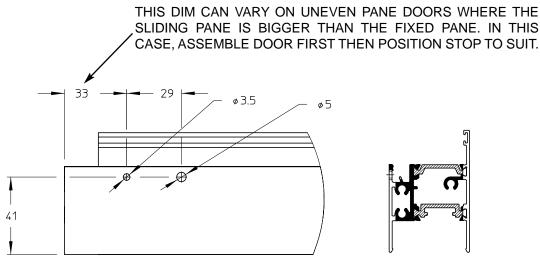
Machining Details - Panel



3 Pane XOX Bump Stop Prep Profile CP212

CPC095

On 3 pane XOX and uneven pane doors only, the bump stop is fitted to the inside of the top and bottom rails. See preparation below.



PROFILE CP212

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CROWN NI

Crown 98mm Patio Door

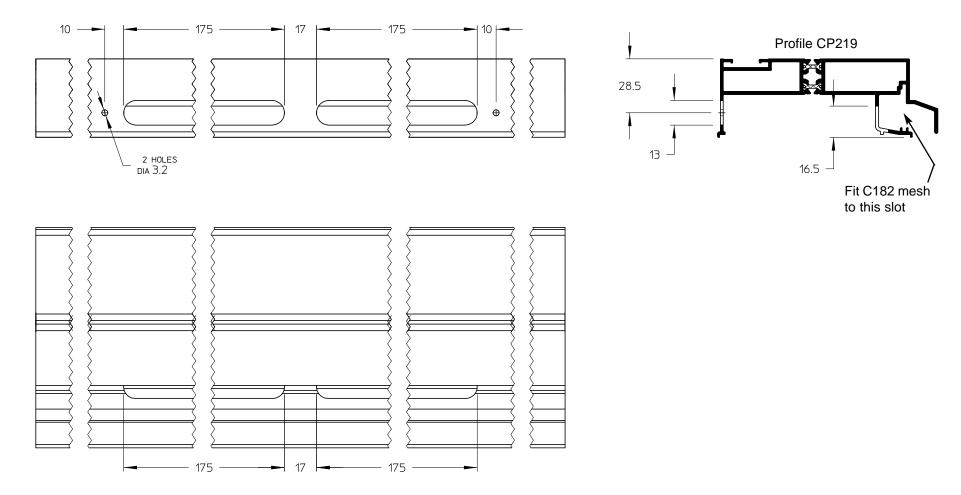
Machining - Trickle Vent



Trickle Vent Preparation Profile CP219

CPC095

Preparations are centred at min. 250mm from the ends and equally spaced at min. 450 centres.



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CROWN 11

Crown 98mm Patio Door

Machining - Concealed Trickle Vent

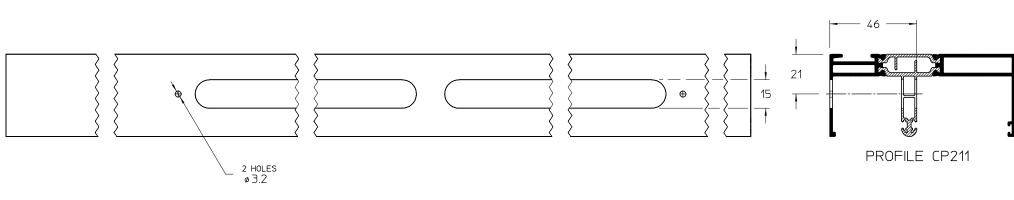


4-21

Concealed Trickle Vent Preparation Profile CP211

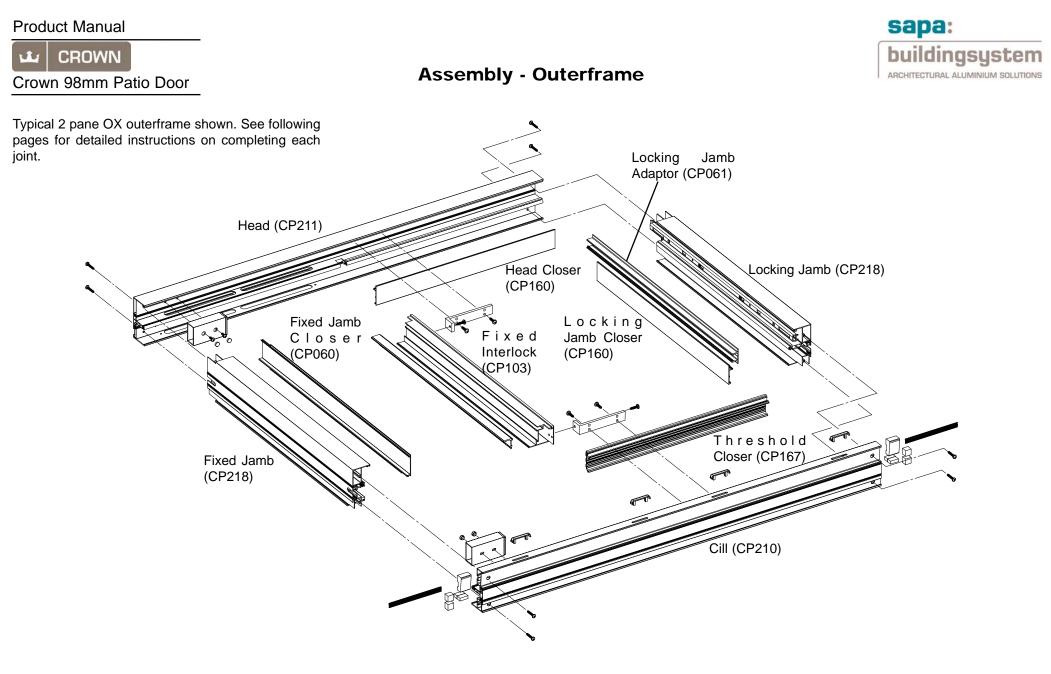
CPC095

Preparations are centred over the fixed pane.



SLOT THROUGH INSIDE FACE AND CENTRAL POLYAMIDE CENTRE OVER FIXED PANE (FOR MULTIPLE VENTS REPEAT PREP EQUAL ABOUT CENTRE OF FIXED PANE)

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CPC095

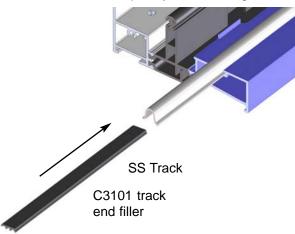
Crown 98mm Patio Door

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Assembly - Outerframe

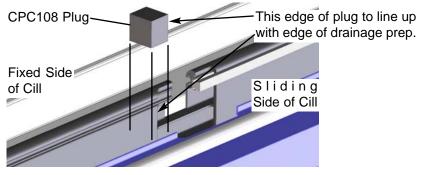
Track Assembly

Slide stainless steel track into groove in cill. Fit track end fillers (C3101) to the gap at either end of the cill as shown below. On 3 pane units, at the non-sliding end, slide track filler CPC111 into track recess. Completely seal end of groove after fitting fillers.



Fitting Cill Plug at Interlock Drainage Point

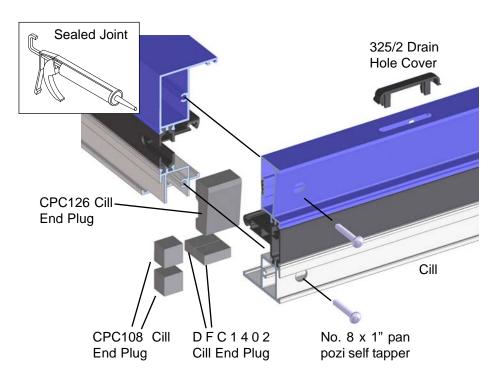
At every interlock drainage point, fit plug CPC108 as shown below - seal into position using Henkel Terostat 934 (clear) or 939 (grey, black or white).



Jamb to Cill Assembly

Slide pile DFC1450 into appropriate grooves in jamb and cill (see general arrangements). Coat entire cut ends of both jambs with Henkel Terostat 934 (clear) or 939 (grey, black or white). Seal plugs DFC1402, CPC108 & CPC126 into recesses in cill as shown below. Apply a generous amount of sealant to cill rebate / jamb inner face joint.

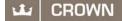
Assemble using 2 off No. 8 x 1" pan pozi self tappers per joint. Check for any weak spots in sealing and rectify. Clean off excess sealant immediately using Teroson FL cleaner.



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CPC095



Crown 98mm Patio Door

Assembly - Outerframe

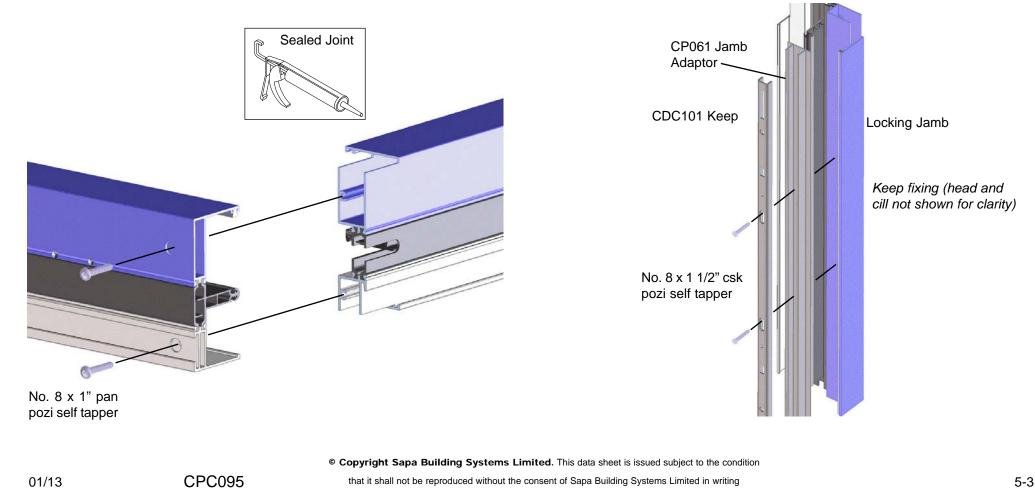


Jamb to Head Assembly

Slide pile DFC1450 into appropriate grooves in jamb and head (see general arrangements). Coat entire cut ends of both jambs with Henkel Terostat 934 (clear) or 939 (grey, black or white). Assemble using 2 off No. 8 x 1" pan pozi self tappers per joint. Check for any weak spots in sealing and rectify. Clean off excess sealant immediately using Teroson FL cleaner.

Keep and Jamb Adaptor Fixing

Drill 3.5 dia holes through existing holes in jamb adaptor into jamb. Fix keep (CDC101) using only two No. 8 x 1 1/2" csk self tapper through the two central slotted holes, though the jamb adaptor into the jamb. Final fixing is carried out after installation / adjustment through the remaining holes using the same screws. CP069 trim must be fitted above and below keep AFTER installation and adjustment.



CROWN 111

Crown 98mm Patio Door

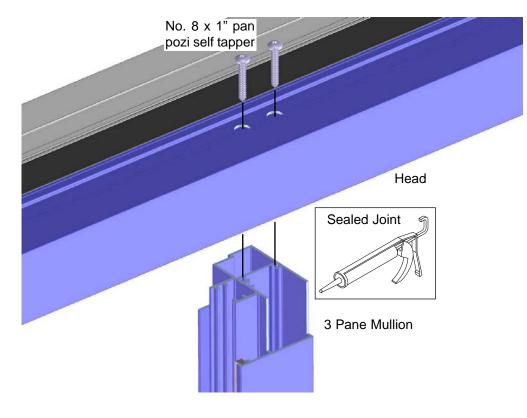
Assembly - Outerframe



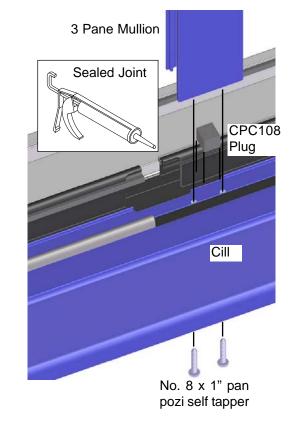
5-4

Fitting of 3 Pane Mullions

Slide pile DFC1450 into groove in 3 pane mullion. Coat entire cut ends of mullion with Henkel Terostat 934 (clear) or 939 (grey, black or white). Fit plug CPC108 as shown under mullion at cill - seal into position using Henkel Terostat 934 (clear) or 939 (grey, black or white). Assemble using 2 off No. 8 x 1" pan pozi self tappers per joint. Check for any weak spots in sealing and rectify. Clean off excess sealant immediately using Teroson FL cleaner. Fitting of keep is similar to the 2 pane as shown on previous page but without the adaptor profile.



CPC095

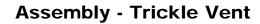


It is ESSENTIAL that the 9.5 dia clearance holes on the under side of the cill for fitting the 3 pane mullion have CPC109 hole plugs SEALED into them, including any unused holes on non-handed cut down kits.

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CROWN

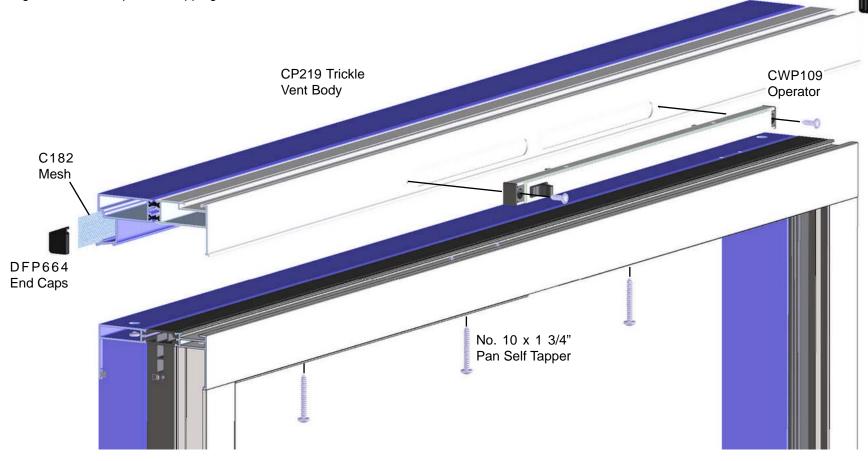
Crown 98mm Patio Door





Trickle Vent Assembly

Fit CWP109 operator to vent body using screws supplied. Slide C182 mesh into groove in vent. Fit DFP664 end caps using sealant to retain in place. Apply sealant to both inner and outer engagement legs of the vent body. Fix vent body to head of door using No.10 x 1 3/4" pan self tapping screws. Clean off excess sealant.



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Crown 98mm Patio Door

Assembly - Sliding Pane

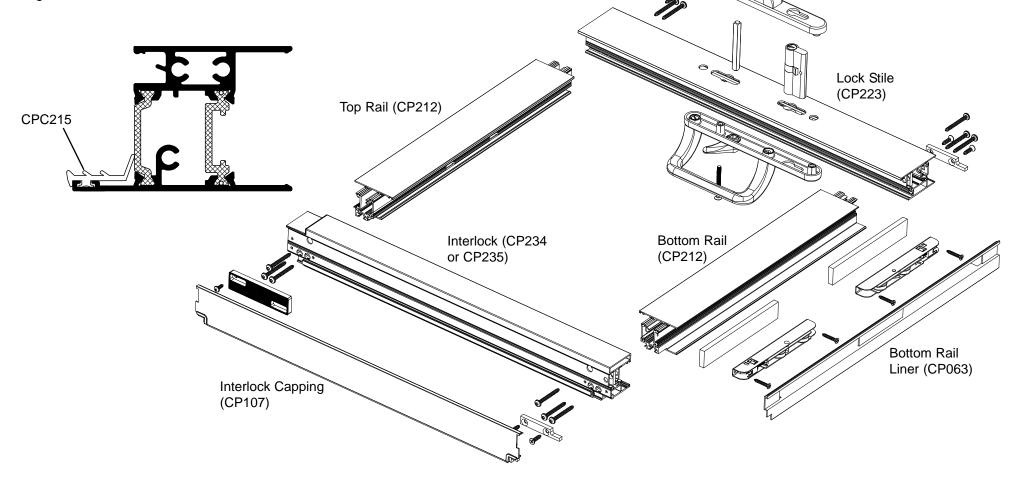


5-6

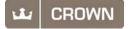
Typical sliding pane shown. See following pages for detailed instructions on completing each joint.

CPC095

Fit retained gasket CPC215 to grooves in all stiles and rails as shown below before assembling leaf.



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Crown 98mm Patio Door

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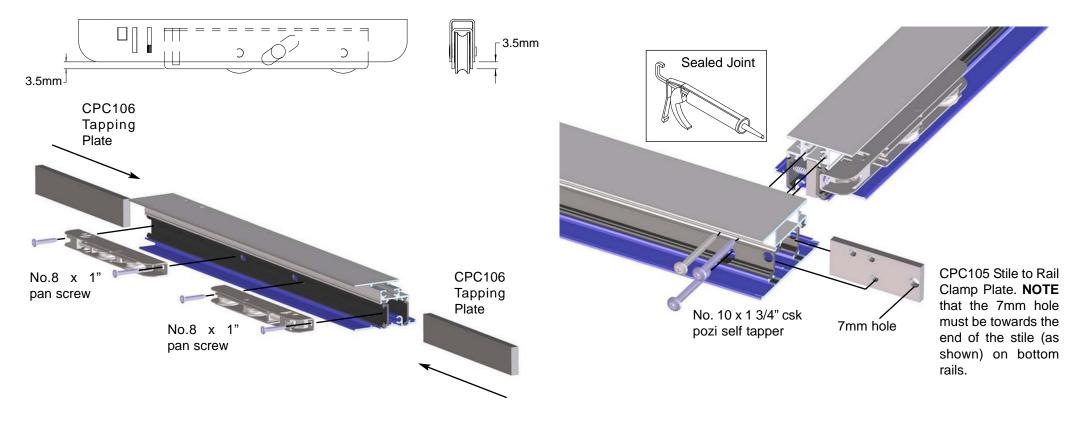
Assembly - Sliding Pane

Fitting Rollers (CPC103)

Pre-Adjust rollers to height shown below to minimise on-site adjustment. Use 2 off No.8 x 1" pan screws and 1 off CPC106 Roller fixing tapping plate per roller. Drill 2.0 dia holes through pre-prepared holes in rail into tapping plate. Ensure that all screws penetrate the tapping plate.

Lock Stile to Rail

Coat entire cut ends of all rails with Henkel Terostat 934 (clear) or 939 (grey, black or white). Note orientation of clamp plate. Assemble using 3 off No. 10 x 1 3/4" pan pozi self tappers. Clean off excess sealant immediately using Teroson FL cleaner.



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CPC095

CROWN

Crown 98mm Patio Door

Assembly - Sliding Pane

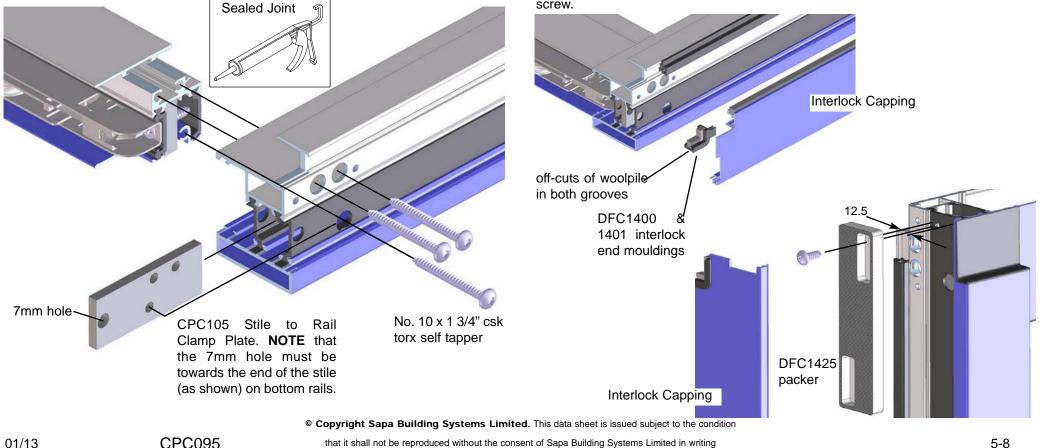


Interlock to Rail

Note use of Torx head screws on all outer interlock to rail fixings. Coat entire cut ends of all rails with Henkel Terostat 934 (clear) or 939 (grey, black or white). Note orientation of clamp plate. Assemble using 3 off No. 10 x 1 3/4" pan torx self tappers. Clean off excess sealant immediately using Teroson FL cleaner. NOTE on 3 pane XOX centre panes, the pane must be assembled around the glass after first fitting retained gasket (see glazing section of the manual for further details)

Fitting Interlock Capping

Slide DFC1450 pile into groove in interlock capping. Slide DF1117 interlock insulator into groove in interlock in the orientation shown. Fit off-cuts of woolpile from kit components to both grooves DFC1400 & 1401 interlock end mouldings as shown hold woolpiles in place using cynoacrylate adhesive. Push end mouldings onto both ends of DF1107 interlock capping. Drill 3.5dia hole through DFC1425 packer into polyamide strip at top of interlock whilst holding the packer flush with the top of the interlock and 12.5mm from outer face as shown. Fix packer using No.8 x 1/2" pan screw.





Crown 98mm Patio Door

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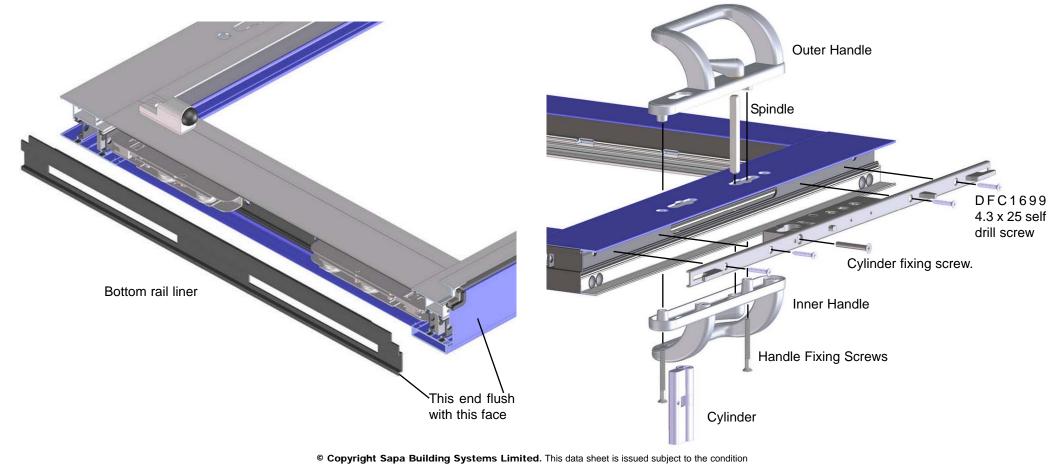
Assembly - Sliding Pane

Fitting Bottom Rail Liner

Clip CPC063 bottom rail liner into bottom rail as shown below. Ensure that end is flush with the outside face of the interlock capping. If necessary, use sealant to ensure a good fit is maintained especially near the ends.

Fitting Lock and Handle

Offer lock into stile (do not fix yet). Fit Cylinder using screw supplied. Fix handles and spindle using screws supplied. Now fix lock using DFC1699 4.3 x 25 csk pozi PA self drill screws. Fitting of 4-pane dummy handles is similar (but without lock, spindle or cylinder). (Illustration of lock has been shortened for clarity - actual lock has 6 hooks). Cut and fit CP070 trim above and below lock faceplate.



CROWN 111

Crown 98mm Patio Door

Assembly - Sliding Pane



Fitting 4 Pane Slave Stile Adaptor and Keep

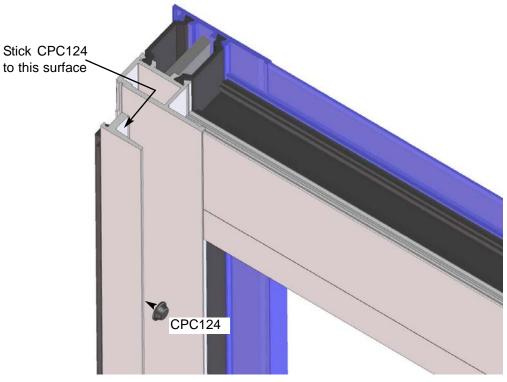
Fit DFC1200 flipper seal to CP064 Adaptor. Slide adaptor into slave stile ensuring seal is towards the inside. Ensure adaptor is flush with ends of stile. Drill 2.0 dia holes through existing counterbored holes in adaptor into stile. Fix adaptor using No. 8 x 1" pan self tappers.

Fix keep (CPC101) using only two No. 8 x 1 1/2" csk self tapper through the two central slotted holes, though the into the slave stile. Final fixing is carried out after installation / adjustment through the remaining holes using the same screws. CP069 trim must be fitted above and below keep AFTER installation and adjustment.



Fitting 4 Pane Over-run Buffer

Fit CPC124 over-run buffers to recess behind interlock hook near the top and bottom of both sliding interlocks as shown below.



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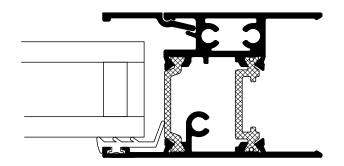
Crown 98mm Patio Door

Assembly - Sliding Pane

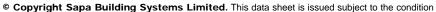


Fit DFC1415 (6mm) glazing packers using a little silicone to hold them in place. Take care not to cover any drainage slots. Fit one near each bottom corner of each pane and one near the top of the stile/interlock.

Offer glass into pane by first carefully shuffling it into the glazing channel of the interlock. Centralise the glass then fit the beads as shown below. All joints in beads must be sealed using Henkel Terostat. Note, beads are supplied over length for cutting down.



Fit inner wedge gasket (DFC1203) by either mitre cutting or notching at the corners.







CROWN

Crown 98mm Patio Door

Installation

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Fitting Frame Into Aperture

It is vitally important that the cill is laid flat and level to achieve good performance. Jambs must be vertical in both planes, and no twist or other distortion allowed in the frame.

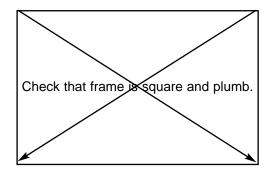
Prior to installing the frame, the opening should be checked to ensure that it is free of debris, and that any projecting brickwork has been trimmed back.

Any damaged damp proof membranes should be replaced or additional membranes incorporated.

When the opening was originally measured a suitable gap should have been allowed around the window, this will allow the window to be packed to ensure that it is plumb and square within the opening.

Ideally the frame should be bedded on mortar.

The frame can then be positioned in the opening and held square by packing at the very corners of the frame, taking care not to damage or deform the frame profiles.



To check for squareness, measure the diagonals from corner to corner, these diagonal dimensions should not differ by more than 1 or 2mm, if they do then adjust the packing until the frame is square within the opening.

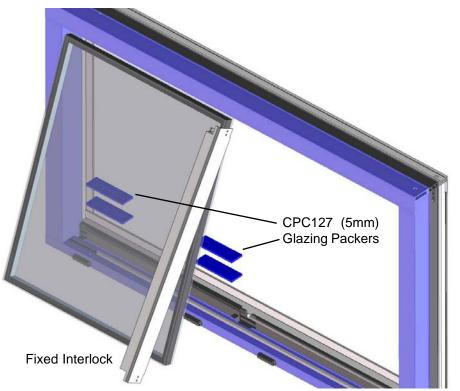
The lay of the frame in to out can be checked by using a spirit level on the jambs. On replacement applications, the correct position of the frame might not

align with the original. This will require some remedial work to make good the plaster reveal around the frame on the inside as well as any render that is present on the outside.

CPC095

Glazing Fixed Pane

Fit DFC1510 retained gasket into groove in polyamide upstand at head, cill and fixed jamb (see general arrangements). Fit CPC127 (5mm) glazing packers into inner recess of cill near to corners of fixed pane as shown below. Lift fixed glazing into place and slide into fixed jamb. Lift fixed interlock into place and fix at head and cill using angle brackets as shown over page. Seal ends of fixed interlock at top and bottom. Fit DFC1509 wedge gasket on the inside notching or mitre joining the corners Take care not to stretch gasket whilst fitting. Seal joints in gasket using Terostat sealant.



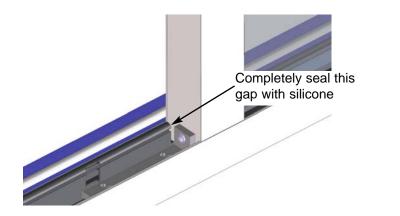
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Crown 98mm Patio Door

Fixing of Fixed Interlock

CP104 Fixed Interlock Bead Seal around fixing holes

Completely seal around fixing holes in cill. Use CPC125 bracket and 3off No. 10 x 3/4" pan screws to fix the fixed interlock at the cill (as shown above) and similarly at the head. Fit fixed interlock bead (CP103). Seal gap between fixed interlock and polyamide upstand at the cill as shown below.



Installation

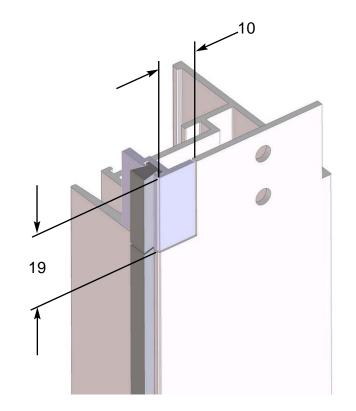
3 Pane OXO Fixed Interlock

At the TOP ONLY of the fixed interlock which occurs at the 3 pane mullion side, an additional notch is required as shown below.

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CPC095

CROWN 110

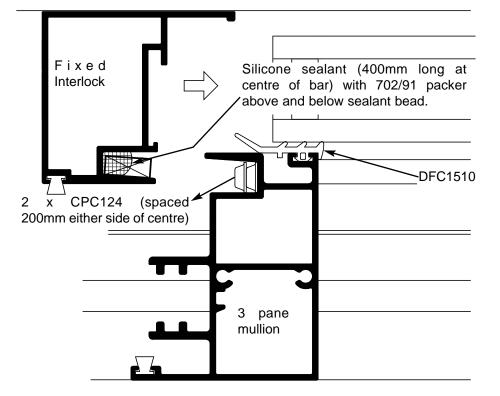
Crown 98mm Patio Door

Installation

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3 Pane OXO Fixed Glazing at Locking Side

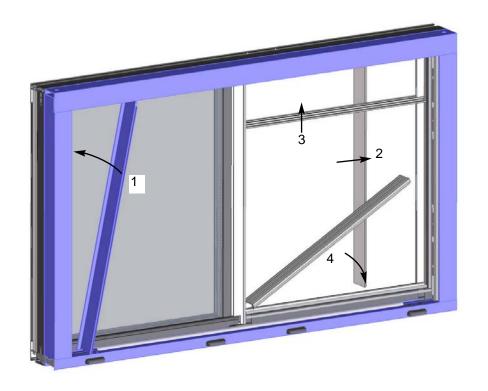
Fit DFC1510 retained gasket to 3 pane mullion as shown below. Fit CPC127 glazing packers to cill as shown on previous page. Lift in dgu from inside and slide into jamb recess. Fit a total of 2 x 2 CPC124 buffers spaced at approx 200mm either side of the centre of the mullion as shown below. Apply silicone sealant for approx 400mm at the centre into the recess on the fixed interlock as shown below. Fit 702/91 into sealant beads at either end of bead as shown below. Ensure that there is enough sealant to make contact with the leg of the 3 pane mullion. Fit fixed interlock as previously shown for 2 pane doors.



CPC095

Fitting Head, Jamb & Threshold Closers

Clip in head, jamb and threshold closers in the sequence shown below. Seal butt joints in all internal closers using Henkel Terostat.



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Product	Manual
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Crown 98mm Patio Door

Installation



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Fitting Sliding Pane

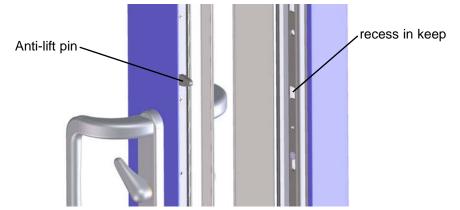
Lift sliding pane into outer head channel then swing bottom of pane inwards and gently lower the rollers onto the track. Slide pane to a near closed position and check that the lock stile is parallel to the jamb. If necessary adjust rollers using a pozi drive screw driver through the hole at the bottom of the stile / interlock (remove interlock capping to gain access to the interlock end roller adjustment). Reduce the load on the roller adjustment screw by lifting the pane slightly whilst adjusting. The ideal nominal gap between the bottom rail liner and the top of cill is 6mm. This will result in 12mm panel edge cover at the head.



CPC095

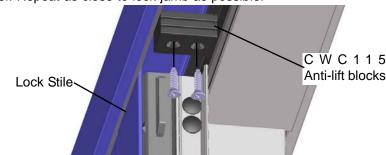
Adjusting Keep

Slacken two keep fixing screws previously fitted. Line up recess in keep with anti-lift pin on lock. Re-tighten screws and check lock operation. Adjust if necessary. Once Keep is correctly adjusted, fit No. 8 x 1 1/2" csk pozi self tappers to all remaining keep fixing holes. Cut and fit trim CP069 above and below keep.



Fitting Anti Lift Blocks (Not required when concealed trickle vent is fitted)

Temporarily remove handles and cylinder. Without bump stops fitted, carefully open door as far as it will go. Using CWC115 anti-lift block as a template, with it held tight against the polyamide upstand, drill two 4.2 dia holes. Fit 2 or 3 anti-lift blocks and /or horseshoe packing shims depending on clearance using No. 10 x 1 1/4" csk pozi self tapper. Repeat as close to lock jamb as possible.



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CROWN 110

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Installation

Fitting Bump Stops

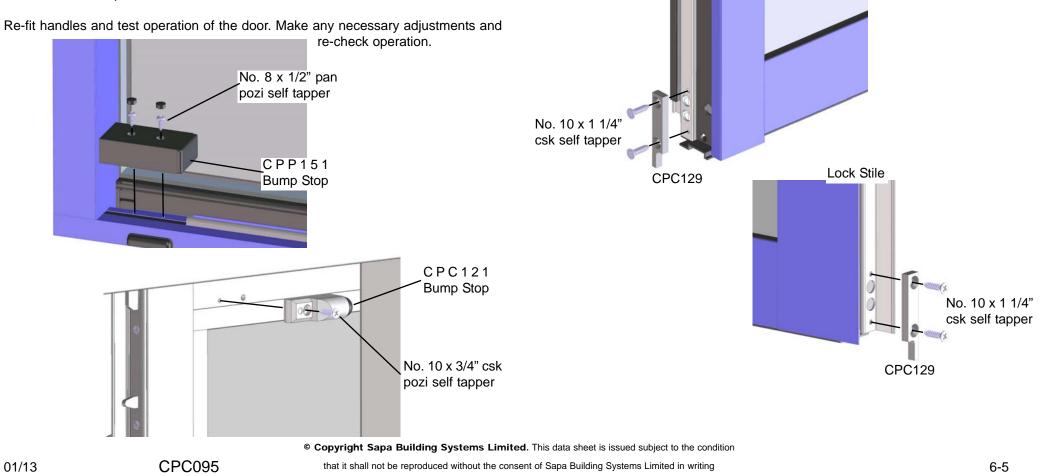
Fix CPP151 Bump Stops to head and cill using No. 8 x 1/2" pan pozi self tapper as shown below. On non-handed 2 & 3 pane cut down kits, where there are un-used bump stop fixing holes, fill them using CPC122 5mm hole plugs. Where necessary, a second bump stop buffer can be fitted to the opposite end of the stop to pack it off the jamb. On 3 pane XOX and uneven pane doors, use CPC121 bump stops fitted to the inside of the top and bottom rails as shown below.

Re-fit handles and test operation of the door. Make any necessary adjustments and

Fitting Anti Jemi Plates

Interlock

Fit Anti-Jemi plates (CPC129) to bottom of interlock and lock stile using 2 off No. 10 x 1 1/4" csk self tappers as shown below. Check operation of sliding door. Fit interlock capping as usual.



Product	Manual
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Crown 98mm Patio Door

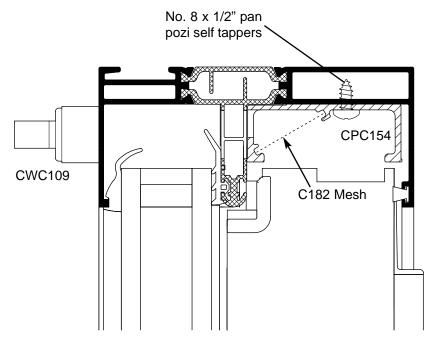
Installation



6-6

Fitting Concealed Trickle Vent

Slide C182 mesh into groove in CPC154 trickle vent. With sliding pane(s) already fitted, close door into locked positon. Slide CPC154 PVC extrusion up over the top of the slding pane as shown alongside with the slots facing towards the inside. Take care not to distort the mesh. (on sites where access is restricted - near a return wall or similar - the CPC154 can be cut in two before inserting). Push the CPC154 tight against the polyamide downstand in the head. Drill 3.5 dia holes through existing holes in trickle vent into head. Fix using No. 8 x 1/2" pan pozi self tappers. Fix CWC109 operator to inside of head using screws supplied.



CPC095



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CROWN 11

Crown 98mm Patio Door

Finishing Off

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Sealing

The recommended sealant for the perimeter exterior is Low Modulous Neutral Cure Silicone Sealant. Backing foam should be used where the perimeter gap is over 5mm. Where the gap is within the 5mm range, a neat application of silicone is all that is required on the outside.

A final check of the internal and external perimeter seals should be undertaken. Any weak spots that are identified should be rectified and tooled to a high visual finish. Any excess sealant must be cleaned off of the finished surfaces using appropriate cleaner.

Cleaning After Installation

If excess sealant is to be cleaned off. Ensure that any solvent used will not damage any of the metal finishes, synthetic rubbers or plastics which may be present.

Warning

Take particular care if there is any cement or plaster on the aluminium. It is harmful to the metal finish and should be washed off while still wet. DO NOT RUB or particles of grit will permanently damage the metal or paint finish.

Routine Cleaning

No aluminium finish is "Maintenance Free" and hence should be cleaned at regular intervals. See surface treatment suppliers literature/website for cleaning and maintenance requirements.

Maintenance

Locks and rollers are sealed for life and require no special regular maintenance other than wiping the faceplate of the lock and the stainless steel track down with a damp cloth periodically. In addition, regular checks must be made to ensure that the track is not damaged or obstructed in any way. If you are unsure DO NOT operate the door and seek professional help.

Operating And Safety Instructions

In order to preserve functionality of the door, and to guarantee safety, it is imperative the directives listed below are observed.

- The door sash must not be burdened with additional weight. •
- Do not place any objects between the sliding pane and frame.
- Do not allow children to operate the door.
- Do not leave pane open during strong winds.
- **Caution!** A slamming pane can lead to injuries while closing. Do not grasp the door between the sliding pane and frame.



CPC095