HS PORTAL LIFT & SLIDE SCV

Scheme A - 68mm Door Thickness

PDF Drawing Pack (also available as DWG files for AutoCAD on request).

Technical Information;

Scheme type: 1 fixed door, 1 sliding door
Overall frame widths: 1680mm - 6700mm
Overall frame heights: 1900mm - 2750mm*
Min sash width for soft close: 820mm
Min sash width for soft close & open: 1100mm
Glazing rebate: 53mm rebate for 4/12/4/12/4 triple glazed units or standard DG units
Handle design: Single sided or back to back

Note: No timber products shown here are supplied, only the hardware.

* Please note; if door height exceeds 2700mm the inclusion of 1xHS50-EXT can increase the door height by 600mm, also make sure you include the HS-FXTB bolt.

Tooling solution - We have teamed up with Whitehill tooling to provide spindle tooling for the sections show in this manual that you can hire, please contact them on 01582 736881.

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Calculating the Sash Widths for HS Portal SCV - Scheme A

To work out the sash widths so they are **equal**, you will need to follow the equation below, the same equation will work for other opening widths, just change the 2000mm to your required overall width dimension.

A	**56mm** Jamb Thickness
B	Overall Width (Outer Frame to Outer Frame Width)
C	**5mm** Lock Side Gap
D	**96mm** Overlapping Measurement
E	Internal Width (**B-A-A**)

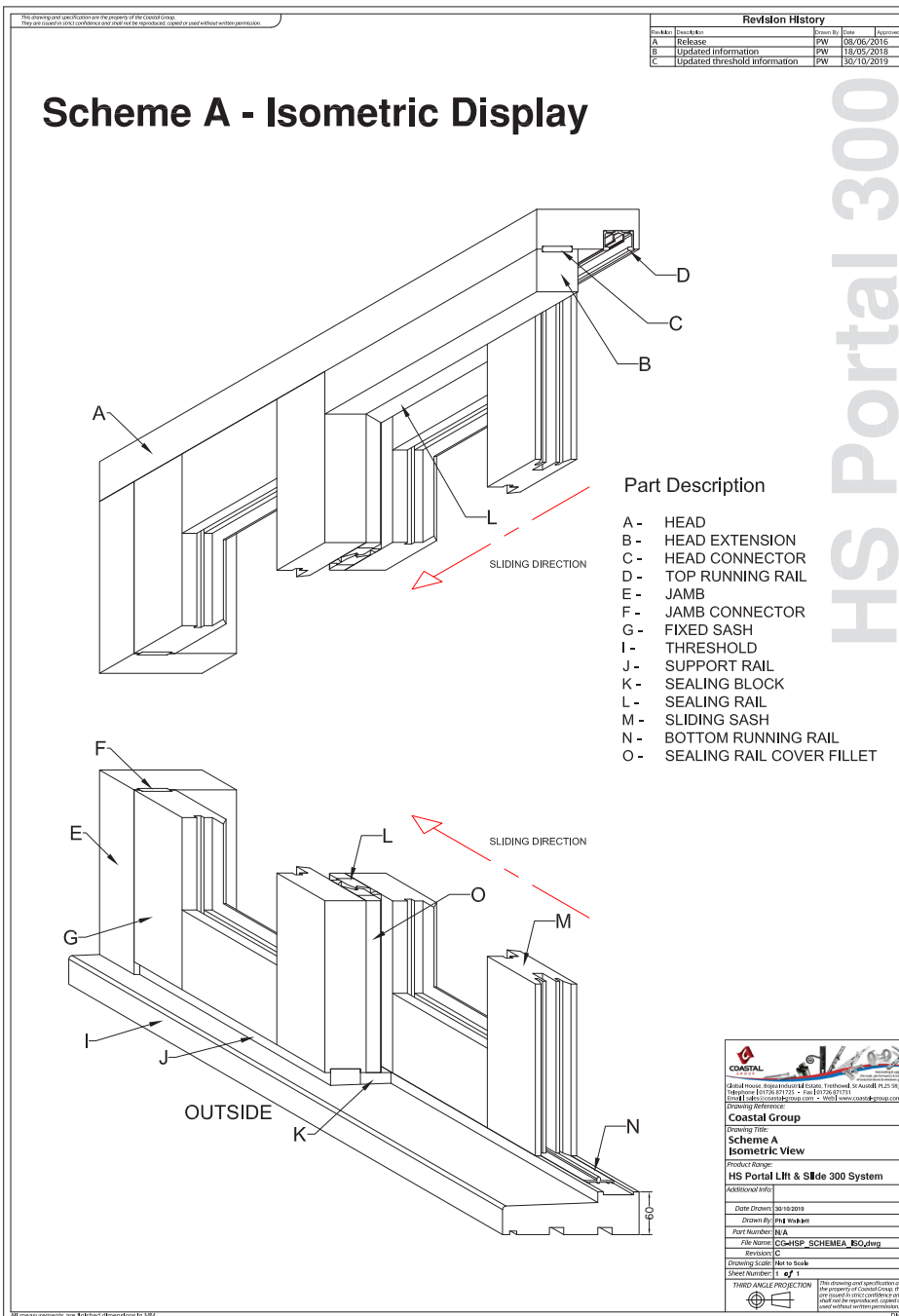Equation to follow; **[B - A - A - C = E] ... [E + D / 2] = Overall Sash Widths**

Example based on **B = 2000mm;**

2000 - 56 - 56 - 5 = **1883mm**
1883 + 96 = **1979mm**
1979 / 2 = **989.5mm**

Each sash width would equal **989.5mm** for this configuration.

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Scheme A - Isometric Display

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SLIDING DIRECTION

Part Description

A - HEAD
B - HEAD EXTENSION
C - HEAD CONNECTOR
D - TOP RUNNING RAIL
E - JAMB
F - JAMB CONNECTOR
G - FIXED SASH
I - THRESHOLD
J - SUPPORT RAIL
K - SEALING BLOCK
L - SEALING RAIL
M - SLIDING SASH
N - BOTTOM RUNNING RAIL
O - SEALING RAIL COVER FILLET

SLIDING DIRECTION

OUTSIDE

Coastal Group

Drawing Title:
Scheme A
Isometric View

Product Range:
HS Portal Lift & Slide 300 System

Additional Info:

Date Drawn:	30/10/2019
Drawn By:	Phil Walkett
Part Number:	N/A
File Name:	CG-HSP_SCHEMEA_ISO.dwg
Revision:	C
Drawing Scale:	Not to Scale
Sheet Number:	1 of 1

THIRD ANGLE PROJECTION

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Scheme A 68mm - Elevation & Plan Display

This 60mm head extension can be made larger as shown below if you wish to keep the same sight lines as the sash, bear in mind the head clearance dimension so as the person does not have to crouch to go through the door.

Sealing rail can then be moved down and the additional timber sealing rail cover fillet can be added to match the wood used on the door.

Sealing Rail Cover Fillet

108

Detail A

5
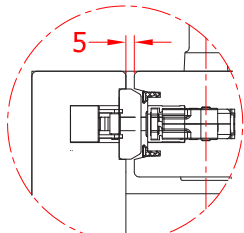
Ensure there is a 5mm gap between the edge of the jamb and the edge of the sash when closed, the sash seals on the jamb fillet.

SLIDING DOOR

FIXED DOOR

VIEWED FROM OUTSIDE

OUTSIDE

164
56
68
60
108
96
12
28
68
130
130
60
63
214
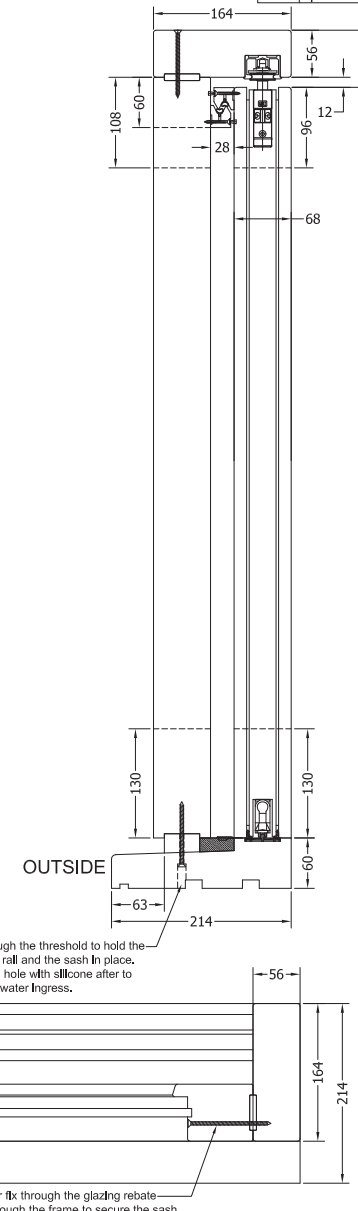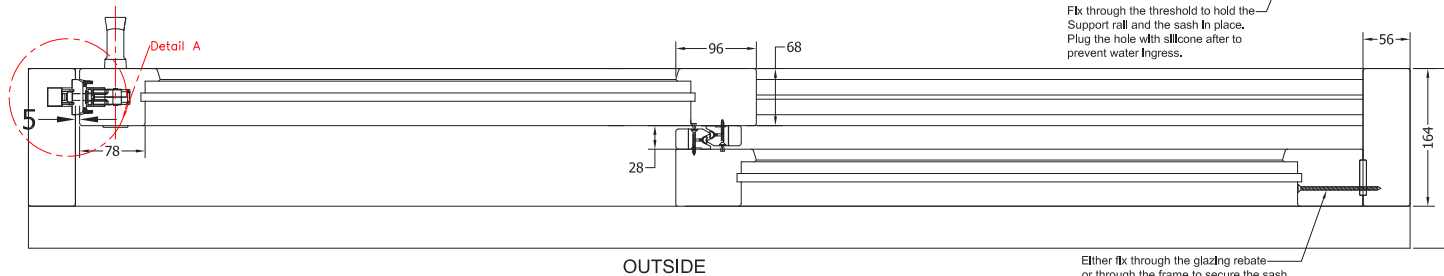
Fix through the threshold to hold the Support rail and the sash in place. Plug the hole with silicone after to prevent water ingress.

Detail A

5

78
28
96
68
56
164
214

OUTSIDE

Either fix through the glazing rebate or through the frame to secure the sash.

Scheme A - 68mm

Frame Drawings

Using Timber Threshold

No timber products shown here are supplied, only the hardware.

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HS Portal Lift & Slide - Scheme A; C; D; E; G; G2; L

Viewed Internally
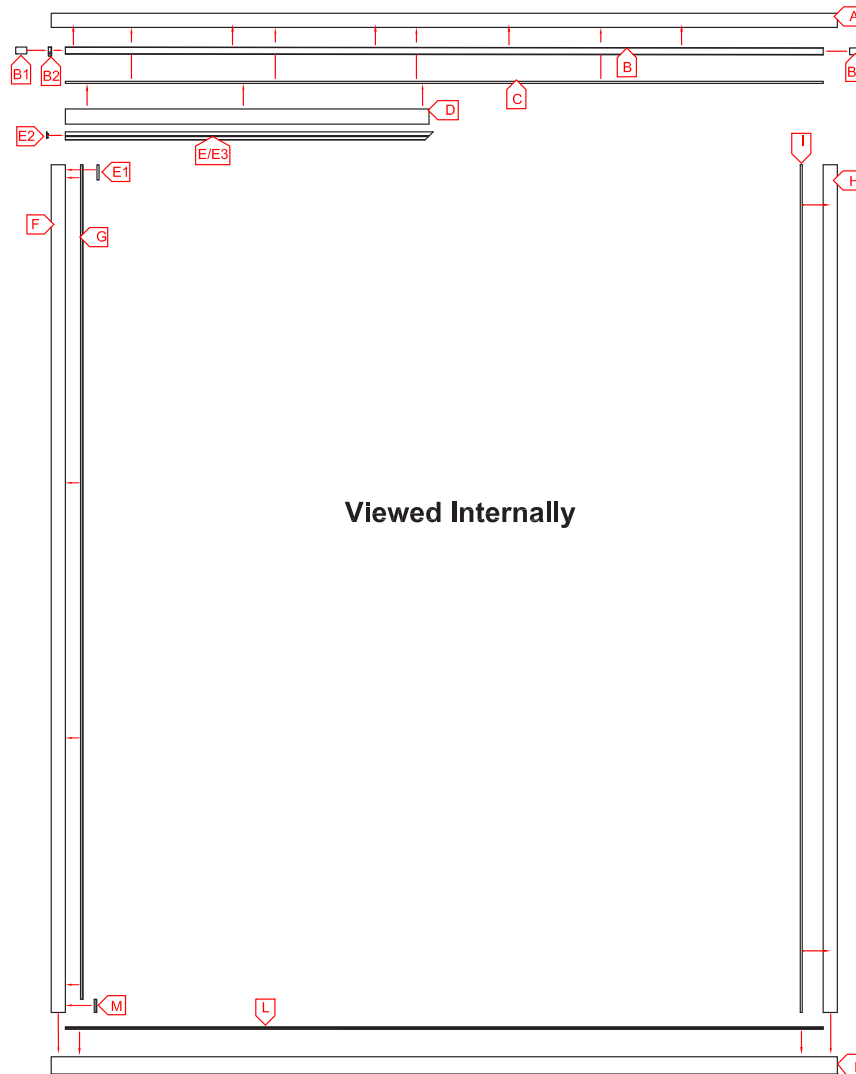
TIMBER COMPONENTS PART LIST
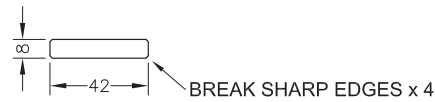
A -   Frame Head
B -   (HS40) Top Guide Rail
B1 -   (HS47) Foam Track End Blocks
B2 -   (HS47) Rubber End Cap
C -   Frame Head Infill
D -   Frame Head Extension
E -   * (HS30) Sealing Rail
E1 -   (HS30-SRAP) Sealing Part Jamb
E2 -   (HS30-SRAP) End Caps (Handed)
E3 -   * (DUR-HSP-M24) Durodeen Sealing Rail
F -   Frame Lock Side Jamb
G -   Frame Lock Side Jamb Infill
H -   Frame Fixed Side Jamb
I -   Frame Fixed Side Jamb Infill
K -   Timber Threshold
L -   (HS17) Flat Bottom Running Rail
M -   (HS2-HK) Infill Block

* - Please Note, you will have either HS30 or DUR-HSP-M24
sealing rails depending on the version you choose, you will not
have both options.

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Drawing Reference:	**Coastal Group**
Drawing Title:	**HS Portal Lift & Slide Frame (Exploded View)**
Product Range:	**Scheme A; C; D; E; G; G2 & L**
Additional Info:	
Date Drawn:	30/10/2019
Drawn By:	Phil Walklett
Part Number:	N/A
File Name:	CG-HSP_FRM.dwg
Revision:	C
Drawing Scale:	Not To Scale
Sheet Number:	1 of 1

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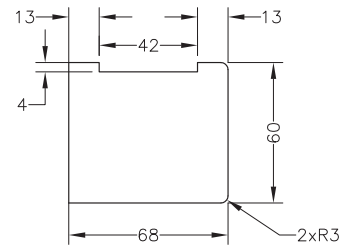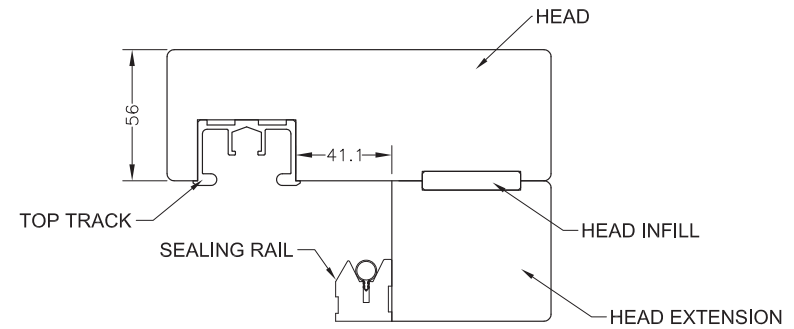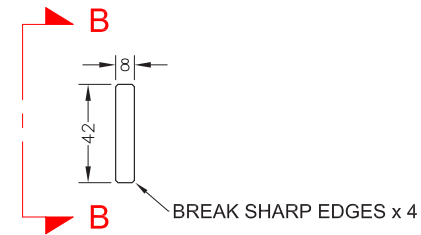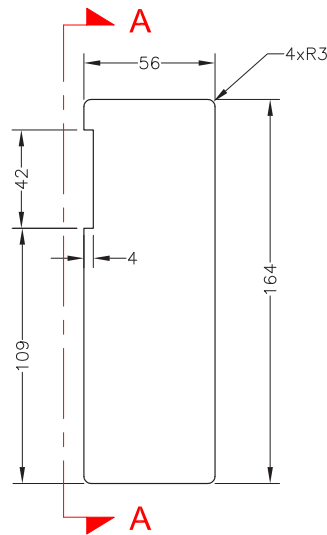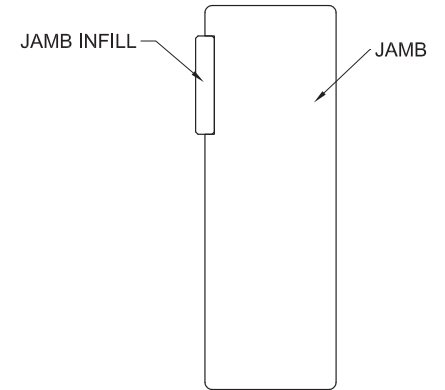All measurements are finished dimensions in MM.

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CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	

Scheme A - FOR 68mm SASH VERSION

8

42

BREAK SHARP EDGES x 4

HEAD CONNECTOR

164

26

56

4

13

42

109

42

4xR3

HEAD

HEAD

56

41.1

TOP TRACK

SEALING RAIL

HEAD INFILL

HEAD EXTENSION

ASSEMBLED VIEW

13

13

42

4

60

68

2xR3

HEAD EXTENSION

All measurements are finished dimensions in MM.

REVISIONS

CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	

Scheme A - FOR 68mm SASH VERSION

B

8

42

B

BREAK SHARP EDGES x 4

SECTION B-B

FIXED SIDE JAMB CONNECTOR

JAMB INFILL

JAMB

A

56

4xR3

42

4

164

109

A

SECTION A-A

FIXED SIDE JAMB

ASSEMBLED VIEW

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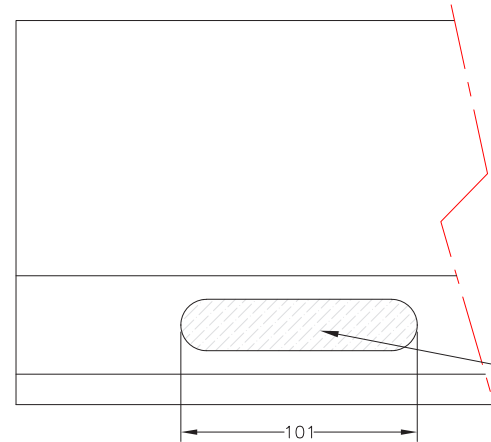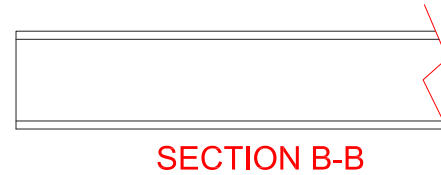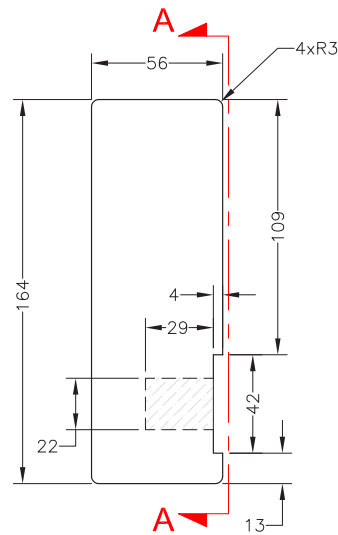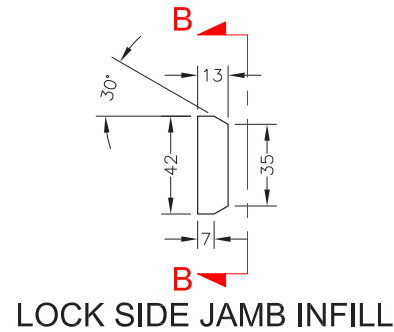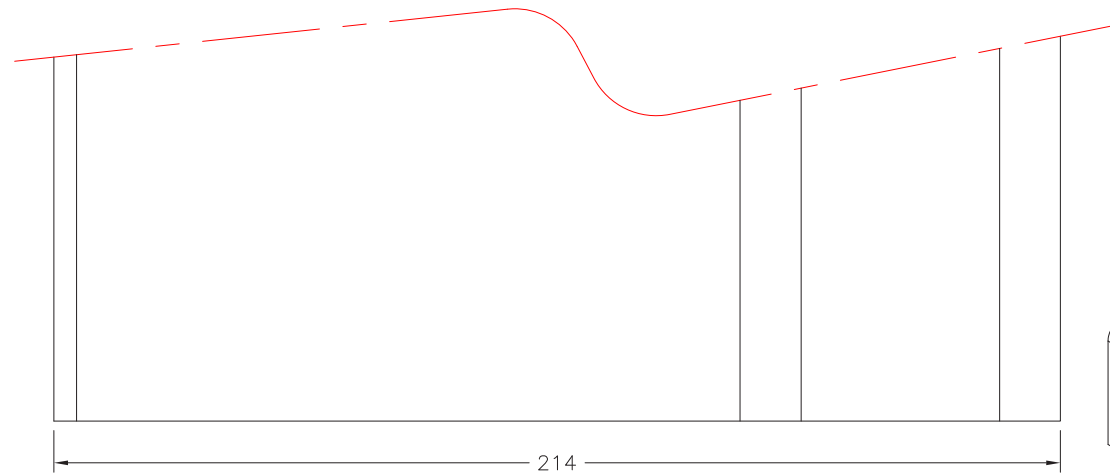|	
Drawing Reference:	
Coastal Group	
Drawing Title:	
HS Portal Lift & Slide	
Fixed Side Jamb / Jamb Connector	
Product Range:	
Scheme A	
Additional Info:	For 68mm Thick Sash Version
Date Drawn:	**22/05/2018**
Drawn By:	**Phil Waklett**
Part Number:	**N/A**
File Name:	**CG-HSP_A68_FRMFSJ.dwg**
Revision:	**B**
Drawing Scale:	**1:1 @ A3**
Sheet Number:	**1** *of* **1**

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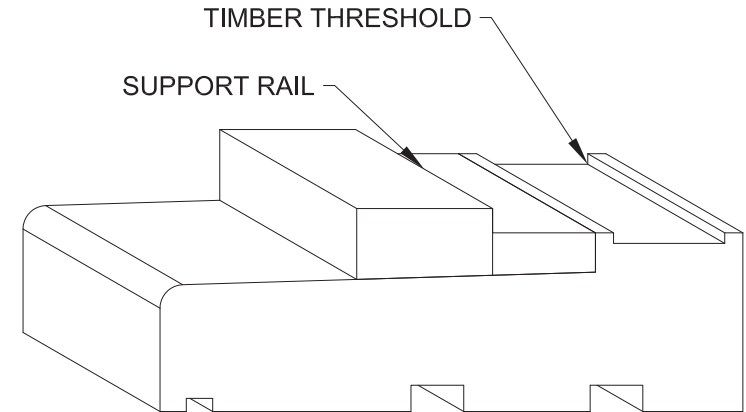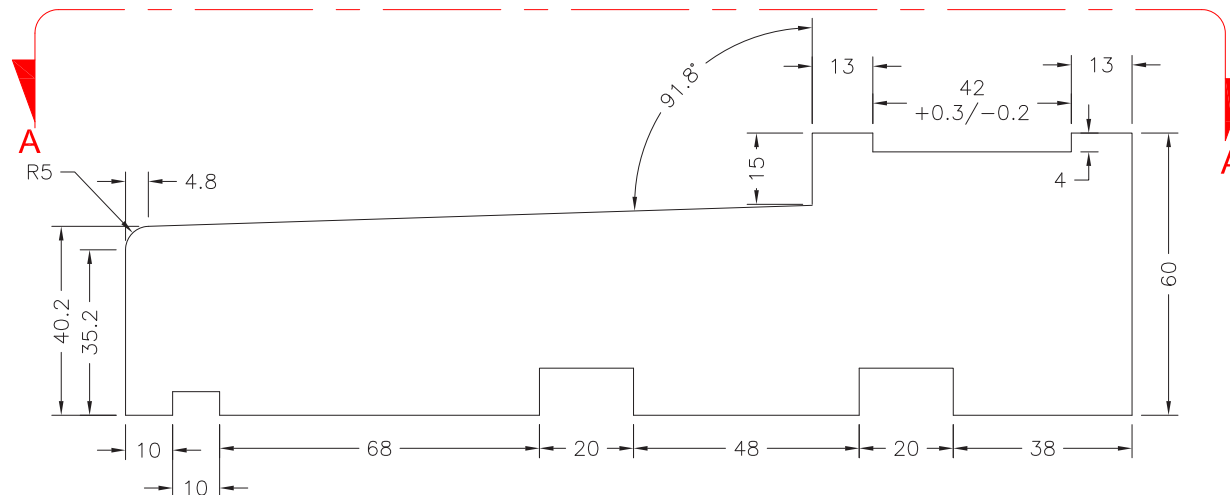
Scheme A - FOR 68mm SASH VERSION

B

30°
13
42
35
7

B

LOCK SIDE JAMB INFILL

SECTION B-B

JAMB

JAMB INFILL

KEEP POCKET

ASSEMBLED VIEW

A

56
4xR3
164
109
4
29
42
22
13

A

LOCK SIDE JAMB

SECTION A-A

POCKETS MACHINED FOR KEEPS
WHERE REQUIRED

101

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Scheme A - FOR 68mm SASH VERSION

214

SECTION A-A

TIMBER THRESHOLD

SUPPORT RAIL

**ISOMETRIC VIEW
NOT TO SCALE**

A

A

91.8°

13

42
+0.3/−0.2

13

15

4

R5

4.8

40.2

35.2

60

10

10

68

20

48

20

38

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Scheme A - FOR 68mm SASH VERSION

REVISIONS						
CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	
C		Dimension Updates	PW	RP	25/03/2019	
D		Update Cutout Detail	PW	RP	11/11/2019	

SECTION A-A

95

Cut this end square
if fixed door is on the right
viewed from outside

Cut this end square
if fixed door is on the left
viewed from outside
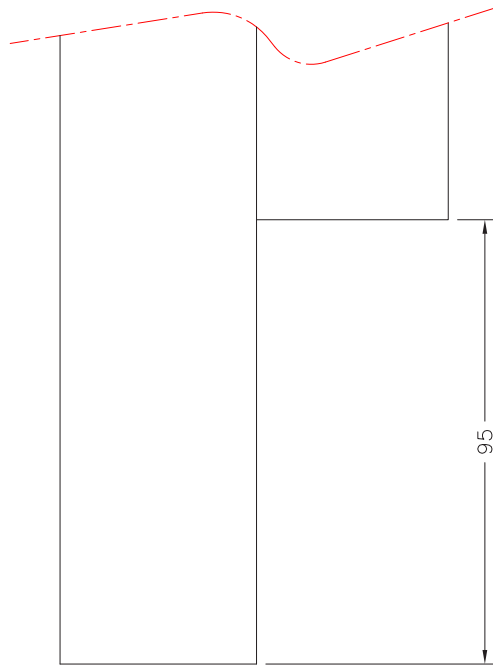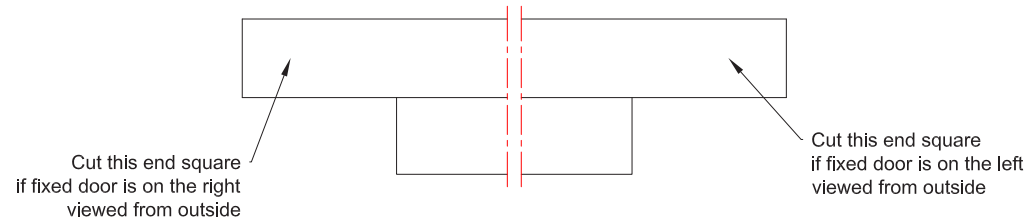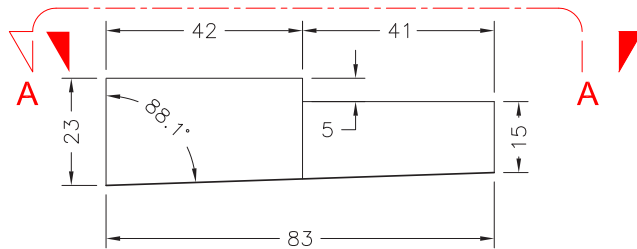
PLAN VIEW
(not to scale)

42 41
23
88.1°
5
15
83

A   A
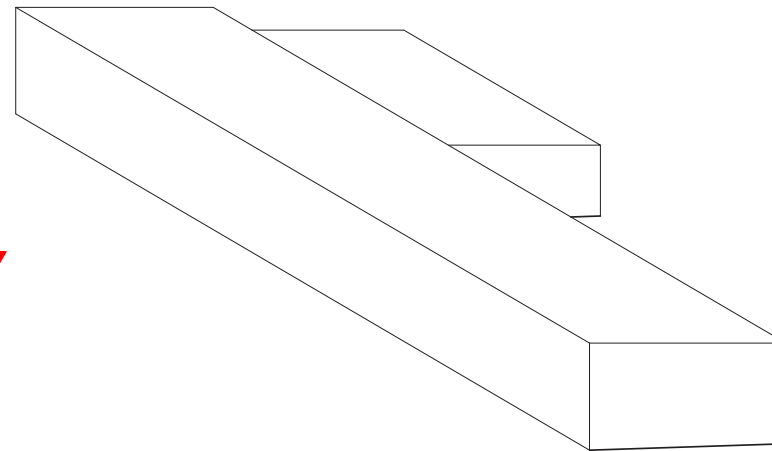
ISOMETRIC VIEW

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Drawing Reference:
Coastal Group

Drawing Title:
**HS Portal Lift & Slide
Support Rail**

Product Range:
Scheme A - 68mm Sash Version

Additional Info: For 68mm Thick Sash Version

Date Drawn:	11/11/2019
Drawn By:	Phil Wallett
Part Number:	N/A
File Name:	CG-HSP_A68_SRL.dwg
Revision:	D
Drawing Scale:	Not To Scale
Sheet Number:	1 *of* 1

THIRD ANGLE PROJECTION

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		REVISIONS				
CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	

Scheme A - FOR 68mm SASH VERSION

HS30 Sealing Rail

15

24

R2

ASSEMBLED VIEW

ISOMETRIC VIEW

DUR-HSP-M24 Durodeen Sealing Rail

Drawing Reference:	**Coastal Group**
Drawing Title:	**HS Portal Lift & Slide** **Cover Fillet - 68mm Sash**
Product Range:	**Scheme A**
Additional Info:	For 68mm Thick Sash Version
Date Drawn:	22/05/2018
Drawn By:	Phil Walkett
Part Number:	N/A
File Name:	CG-HSP-A68_SRCF.dwg
Revision:	B
Drawing Scale:	1:1 @ A3
Sheet Number:	1 of 1

THIRD ANGLE PROJECTION

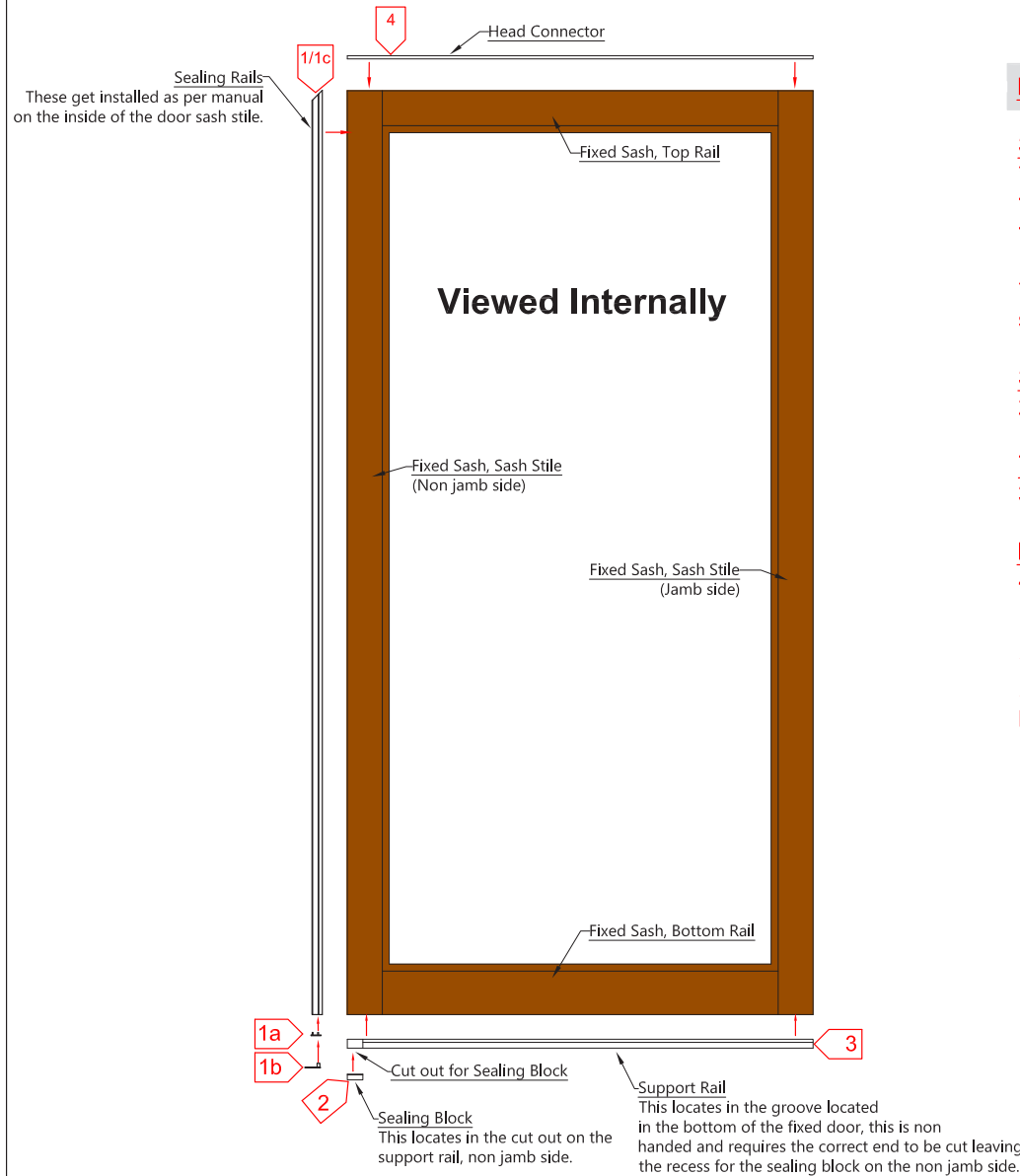All measurements are finished dimensions in MM.

Scheme A - 68mm

Fixed Sash Drawings

No timber products shown here are supplied, only the hardware.

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HS Portal Lift & Slide - Fixed Door Component's (Exploded)

4
Head Connector

1/1c

Sealing Rails
These get installed as per manual
on the inside of the door sash stile.

Fixed Sash, Top Rail

Viewed Internally

Fixed Sash, Sash Stile
(Non jamb side)

Fixed Sash, Sash Stile
(Jamb side)

Fixed Sash, Bottom Rail

1a
1b

2

Cut out for Sealing Block

Sealing Block
This locates in the cut out on the
support rail, non jamb side.

3

Support Rail
This locates in the groove located
in the bottom of the fixed door, this is non
handed and requires the correct end to be cut leaving
the recess for the sealing block on the non jamb side.

All measurements are finished dimensions in MM.

FIXED SASH PARTS LIST

Sealing Rails (located on inside of non jamb sash stile)
* 1 -   (HS30) Sealing Rails (top rail & non locking sash stile)
1a -   (HS30-SRAP) Sealing Rail End Caps (x2 handed)
1b -   (HS30-SRAP) Sealing Rail Sealing Pad (x1 handed)

* 1c - (DUR-HSP-M24) Durodeen Sealing Rail (top rail & non locking sash stile)

Sealing Block (non handed)
2 -   (HS24) Rubber Sealing Block

Timber Support Rail
3 -   Support Rail (non handed, need to cut the rail to suit the door hand)

Handle
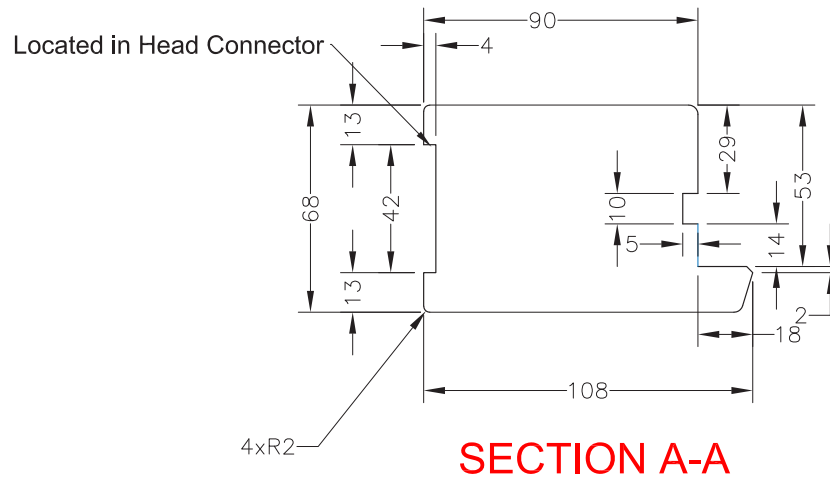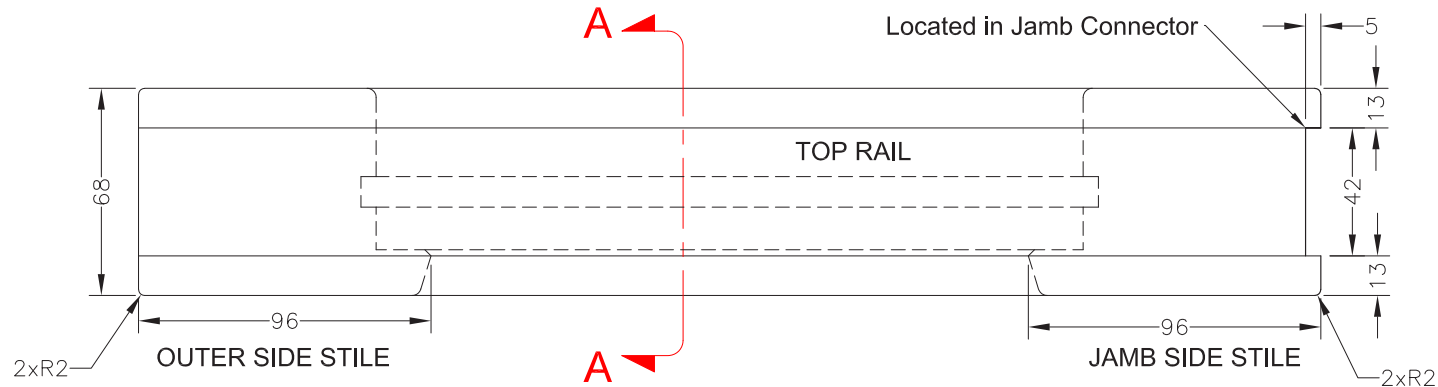4 -   Head Connector (joins the top of the door to the frame head)

* - Please Note, you will have either HS30 or DUR-HSP-M24
sealing rails depending on the version you choose, you will not have
both options.

Page 14

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Scheme A - FOR 68mm SASH VERSION

Located in Jamb Connector

TOP RAIL

68

5

13

42

13

96 OUTER SIDE STILE

JAMB SIDE STILE 96

2xR2

2xR2

A

A

Located in Head Connector

90

4

13

68

42

13

29

53

10

5

14

2

18

108

4xR2

SECTION A-A

FIXED SASH TOP RAIL

All measurements are finished dimensions in MM.

Scheme A - FOR 68mm SASH VERSION

TOP RAIL END

TOP RAIL

JAMB SIDE STILE

BOTTOM RAIL

BOTTOM RAIL END

FIXED SASH JAMB SIDE STILE

Locates into Jamb Connector

SECTION A-A

Locates into Head Connector

Locates into Jamb Connector

TOP RAIL

STILE

SECTION B-B

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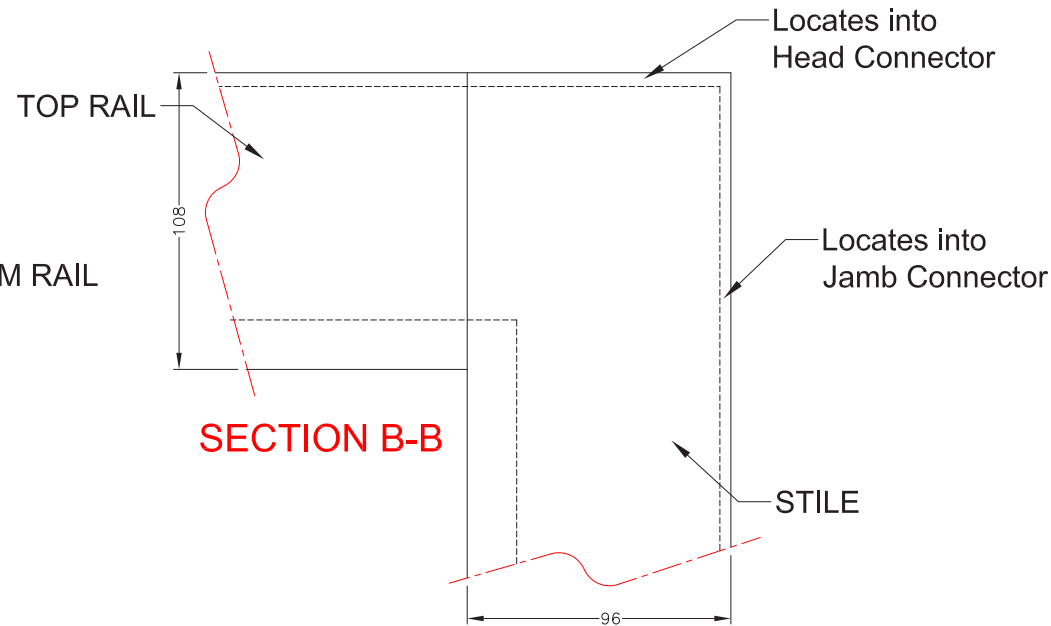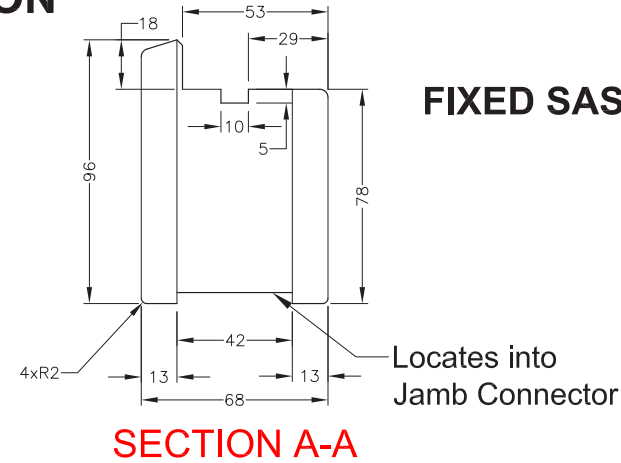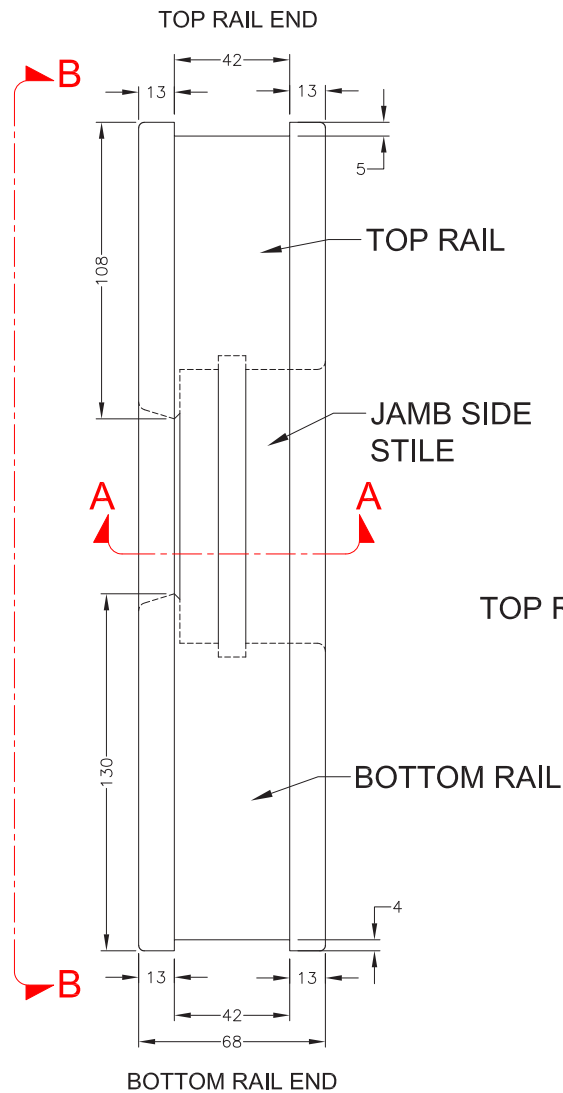Email | sales@coastal-group.com · Web | www.coastal-group.com

Drawing Reference:
Coastal Group

Drawing Title:
HS Portal Lift & Slide
Fixed Side Jamb Stile - 68mm Sash

Product Range:
Scheme A

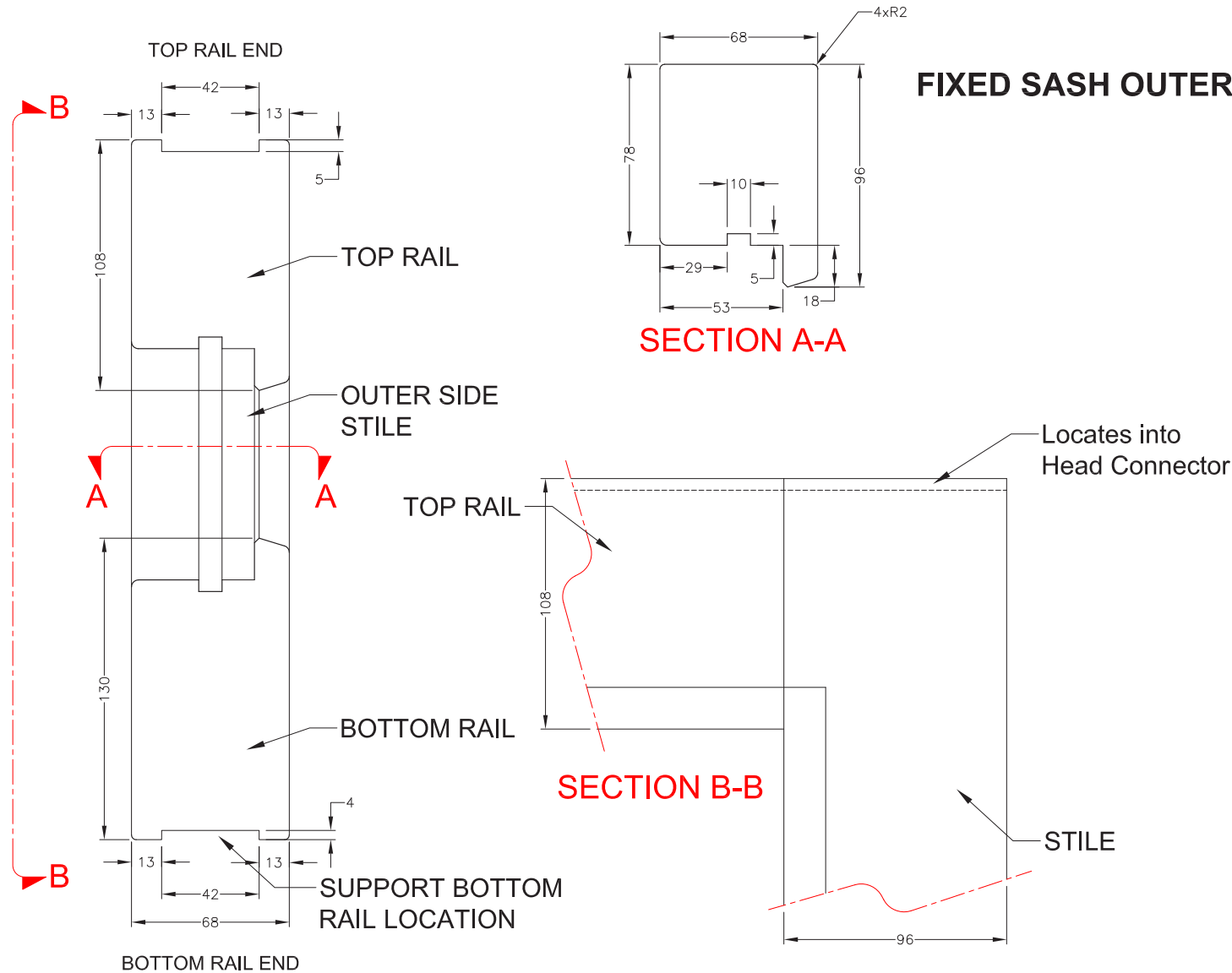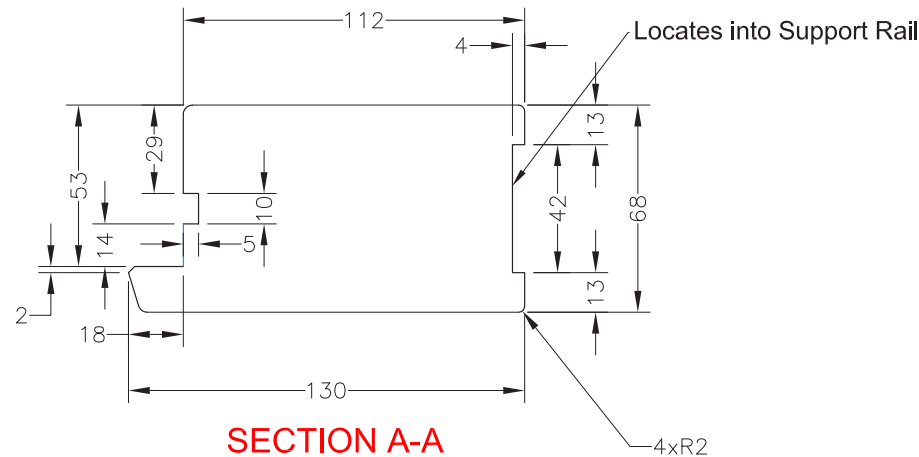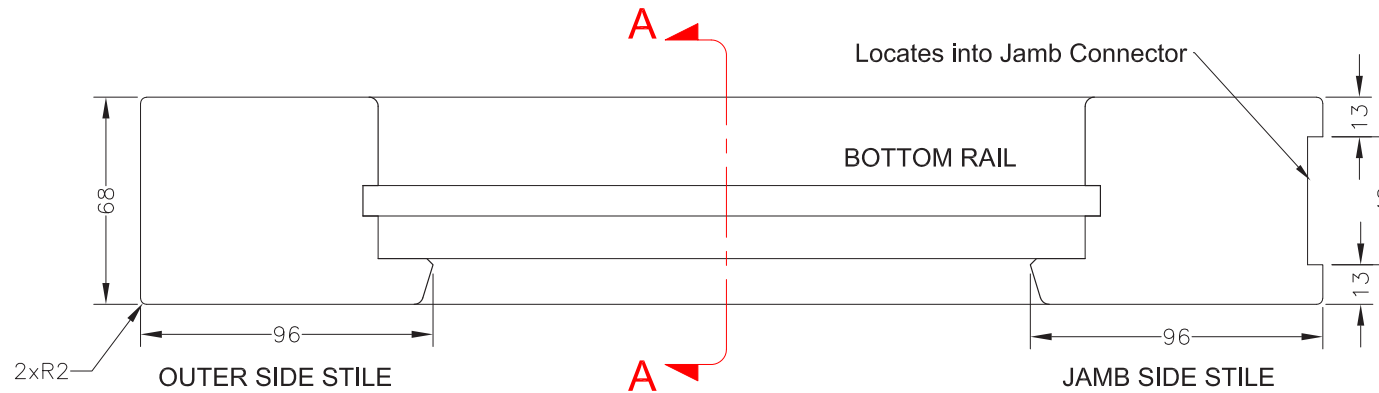|	
Additional Info:	For 68mm Thick Sash Version Jamb Side
Date Drawn:	25/03/2019
Drawn By:	Phil Walklett
Part Number:	N/A
File Name:	CG-HSP_A68_FSJSTI.dwg
Revision:	C
Drawing Scale:	1:1 @ A3
Sheet Number:	1 of 1

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A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	
C		Dimension Updates	PW	RP	25/03/2019	

REVISIONS

Scheme A - FOR 68mm SASH VERSION

TOP RAIL END

B

42
13
13
5

108

TOP RAIL

OUTER SIDE STILE

A   A

130

BOTTOM RAIL

4

13   13

42

68

B

SUPPORT BOTTOM RAIL LOCATION

BOTTOM RAIL END

FIXED SASH OUTER SIDE STILE

68
4xR2
78
96
10
29
5
53
18

SECTION A-A

TOP RAIL

Locates into Head Connector

108

STILE

96

SECTION B-B

THIRD ANGLE PROJECTION

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Scheme A - FOR 68mm SASH VERSION

A

Locates into Jamb Connector

BOTTOM RAIL

68

13

42

13

96

96

2xR2

OUTER SIDE STILE

A

JAMB SIDE STILE

112

4

Locates into Support Rail

29

53

13

42

68

14

10

5

13

2

18

130

SECTION A-A

4xR2

FIXED SASH BOTTOM RAIL

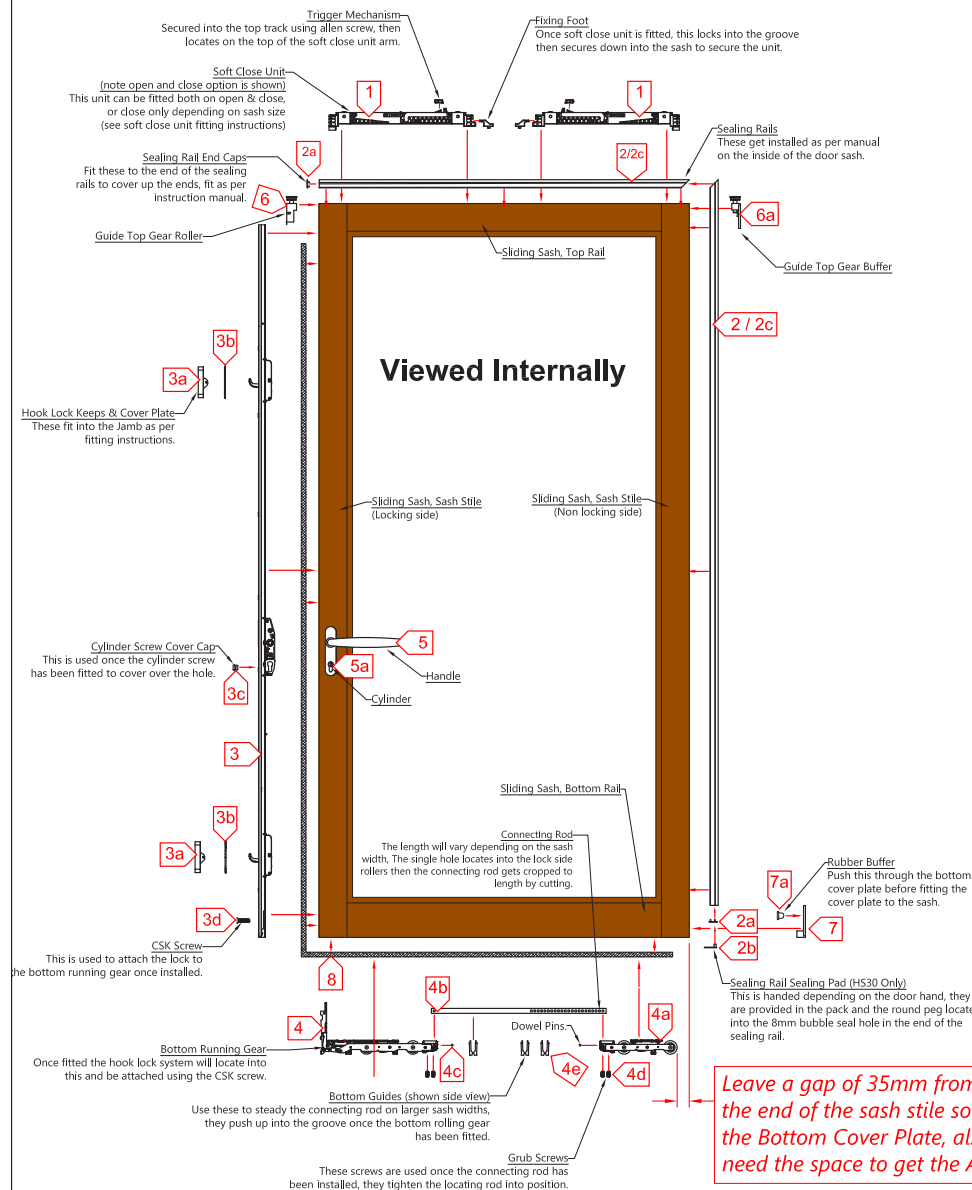All measurements are finished dimensions in MM.

Scheme A - 68mm

Sliding Sash Drawings

No timber products shown here are supplied, only the hardware.

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HS Portal Lift & Slide - Sliding Door Component's (Exploded, Scheme A; D; G2; E)

Trigger Mechanism
Secured into the top track using allen screw, then locates on the top of the soft close unit arm.

Fixing Foot
Once soft close unit is fitted, this locks into the groove then secures down into the sash to secure the unit.

Soft Close Unit
(note open and close option is shown)
This unit can be fitted both on open & close, or close only depending on sash size
(see soft close unit fitting instructions)

Sealing Rails
These get installed as per manual on the inside of the door sash.

Sealing Rail End Caps
Fit these to the end of the sealing rails to cover up the ends, fit as per instruction manual.

Guide Top Gear Roller

Sliding Sash, Top Rail

Guide Top Gear Buffer

Hook Lock Keeps & Cover Plate
These fit into the Jamb as per fitting instructions.

Viewed Internally

Sliding Sash, Sash Stile
(Locking side)

Sliding Sash, Sash Stile
(Non locking side)

Cylinder Screw Cover Cap
This is used once the cylinder screw has been fitted to cover over the hole.

Handle

Cylinder

Sliding Sash, Bottom Rail

Connecting Rod
The length will vary depending on the sash width, The single hole locates into the lock side rollers then the connecting rod gets cropped to length by cutting.

Rubber Buffer
Push this through the bottom cover plate before fitting the cover plate to the sash.

CSK Screw
This is used to attach the lock to the bottom running gear once installed.

Sealing Rail Sealing Pad (HS30 Only)
This is handed depending on the door hand, they are provided in the pack and the round peg locates into the 8mm bubble seal hole in the end of the sealing rail.

Bottom Running Gear
Once fitted the hook lock system will locate into this and be attached using the CSK screw.

Bottom Guides (shown side view)
Use these to steady the connecting rod on larger sash widths, they push up into the groove once the bottom rolling gear has been fitted.

Dowel Pins.

Grub Screws
These screws are used once the connecting rod has been installed, they tighten the locating rod into position.

Leave a gap of 35mm from the back of the wheel to the end of the sash stile so the wheel does not rub on the Bottom Cover Plate, also if using HS1-ADJ you need the space to get the Allen key in to adjust.

All measurements are finished dimensions in MM.

SLIDING SASH PARTS LIST

Soft Close Unit (located in top rail)
1 -   (HS45) Soft Close Unit (with trigger & locating foot)

Sealing Rails (located on inside of top rail & non locking sash stile)
* 2 -   (HS30) Sealing Rails (top rail & non locking sash stile)
2a -   (HS30-SRAP) Sealing Rail End Caps (x2 handed)
2b -   (HS30-SRAP) Sealing Rail Sealing Pad (x1 handed)

* 2c - (DUR-HSP-M24) Durodeen Sealing Rails (top rail & non locking sash stile)

Hook Lock (located in jamb side sash stile)
3 -   (HS50) Hook Bolt Locking System (croppable)
3a -   (HS56) Hook Bolt Locking Keep (x2 per lock)
3b -   (HS57) Hook Bolt Locking Keep Plate (x2 per master lock)
3c -   (HS2-HK) Cylinder Screw Cover Cap (x1 per lock)
3d -   (HS2-HK) Accessory Pack (CSK Screw 8x8x13 - x1 per lock)

Bottom Rolling Gear
4 -   (HS1) Bottom Rolling Gear (lock side)
4a -   (HS1) Bottom Rolling Gear (non locking side)
4b -   (HS4) Connecting Rod (varies based on sash width, croppable)
4c -   (HS2-HK) Accessory Pack (Dowel Pin 6x6x16 - x2 per pack)
4d -   (HS2-HK) Accessory Pack (Grub Screw for Link Rod Assembly 16x8x8 - x4 per pack)
4e -   (HS2-HK) Accessory Pack (Bottom Guides Qty 3 - Support Guide Rail)

Handle
5 -   (LS1120Y) Lift & Slide Lever (single or double sided available)
5a -   Single Euro Cylinder (half, full or thumb turn available)

Top Rail Running Gear
6 -   (HS47) Guide Top Gear Roller (locking side)
6a -   (HS47) Guide Top Gear Buffer (non locking side)

Accessory's
7 -   (HS47) Accessory Pack (Cover Plate Bottom Rear)
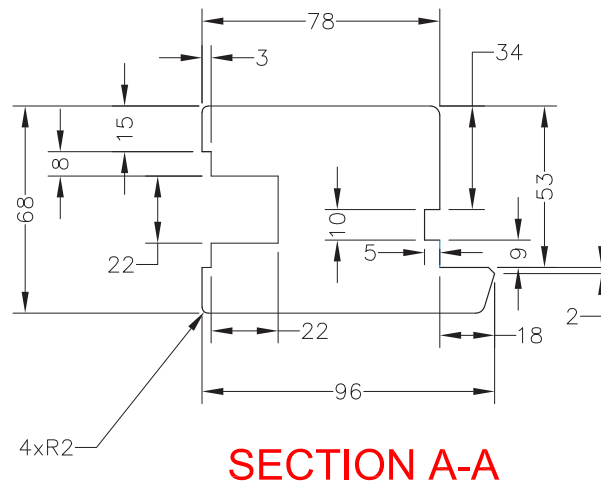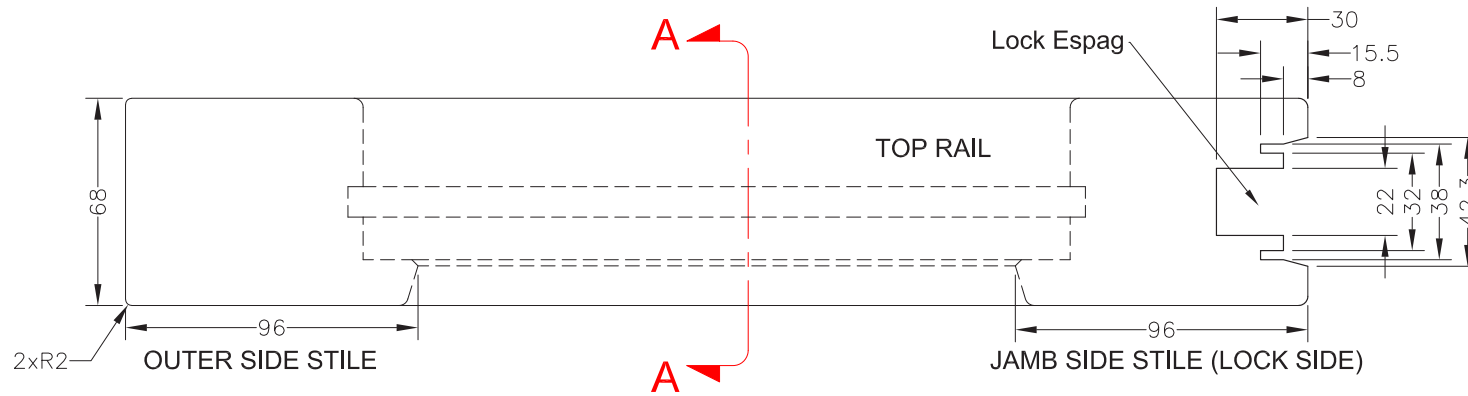7a -   (HS47) Accessory Pack (Rubber Buffer)
8 -   (HS7-270-BK) Lift & Slide Corner Seal x 2

* - Please Note, you will have either HS30 or DUR-HSP-M24 sealing rails depending on the version you choose, you will not have both options.

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Scheme A - FOR 68mm SASH VERSION

A ◄
A ◄

TOP RAIL

Lock Espag

30
15.5
8
22
32
38
42.3

68

2xR2

OUTER SIDE STILE

96

JAMB SIDE STILE (LOCK SIDE)

96

78
3
34
15
8
68
22
53
10
5
9
2
22
18
96
4xR2

SECTION A-A

SLIDING SASH TOP RAIL

All measurements are finished dimensions in MM.

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Scheme A - FOR 68mm SASH VERSION

TOP RAIL END

B

TOP RAIL

Ø12

Optional Machining for
Soft Close Unit

JAMB SIDE STILE

A   A

BOTTOM RAIL

B

BOTTOM RAIL END

SECTION A-A

SLIDING SASH JAMB SIDE STILE
(LOCK SIDE)

TOP RAIL

Optional Machining for
Soft Close Unit

SECTION B-B

STILE

All measurements are finished dimensions in MM.

Scheme A - FOR 68mm SASH VERSION

TOP RAIL END

TOP RAIL

Optional Machining for Soft Close Unit

OUTER SIDE STILE

BOTTOM RAIL

BOTTOM RAIL END

SLIDING SASH OUTER SIDE STILE

SECTION A-A

Optional Machining for Soft Close Unit

TOP RAIL

STILE

SECTION B-B

Drawing Reference:
Coastal Group

Drawing Title:
HS Portal Lift & Slide
Sliding Sash Outer Stiles

Product Range:
Scheme A - 68mm Thick

Additional Info: For 68mm Thick Sash Version Outer Stile

Date Drawn: 25/03/2019
Drawn By: Phil Walklett
Part Number: N/A
File Name: CG-HSP_A68_SSOSTI.dwg
Revision: C
Drawing Scale: Not to Scale
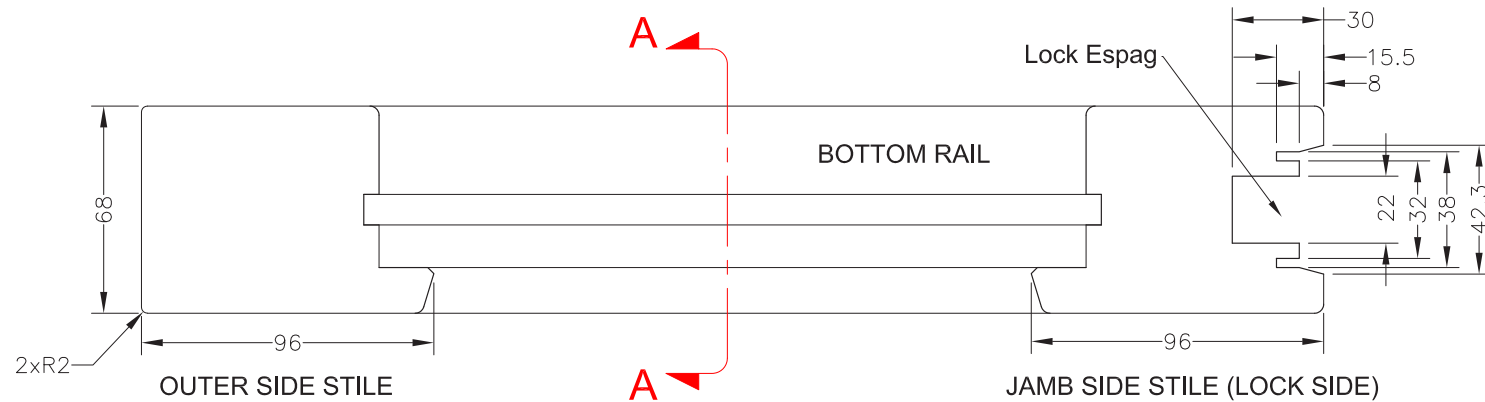Sheet Number: 1 of 1

THIRD ANGLE PROJECTION

All measurements are finished dimensions in MM.

Scheme A - FOR 68mm SASH VERSION

REVISIONS						
CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	07/08/2016	
B		Drawing Updates	PW	RP	22/05/2018	
C		Altered dim from 22 to 23mm	PW	RP	31/05/2018	
D		Dimension Update	PW	RP	25/03/2019	
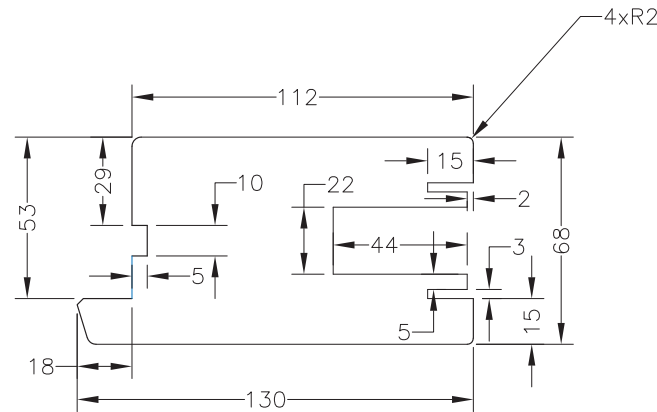
A

BOTTOM RAIL

Lock Espag

30
15.5
8
22
32
38
42.3

68

96

2xR2

OUTER SIDE STILE

A

JAMB SIDE STILE (LOCK SIDE)

96

4xR2

112

29

53

10

22

15

2

44

5

3

68

18

5

15

130

SECTION A-A

SLIDING SASH BOTTOM RAIL

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Email | sales@coastal-group.com · Web | www.coastal-group.com

Drawing Reference:	
Coastal Group	
Drawing Title:	
HS Portal Lift & Slide **Sliding Sash Bottom Rail**	
Product Range:	
Scheme A - 68mm Thick	
Additional Info:	For 68mm Thick Sash Version
Date Drawn:	25/03/2019
Drawn By:	Phil Walklett
Part Number:	N/A
File Name:	CG-HSP_A68_SSBR.dwg
Revision:	D
Drawing Scale:	1:1 @ A3
Sheet Number:	1 of 1

THIRD ANGLE PROJECTION

All measurements are finished dimensions in MM.

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Information in this pack is subject to change
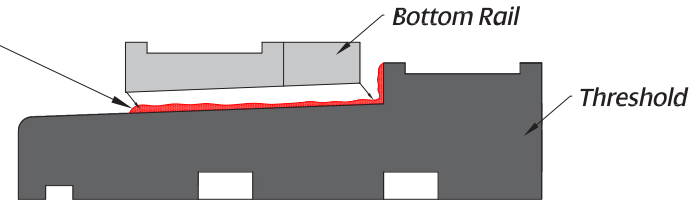LIT-HSP-A-68-DP / 190721F

All Schemes

Fitting Information Guides

These guideline must be followed to ensure the system functions correctly.

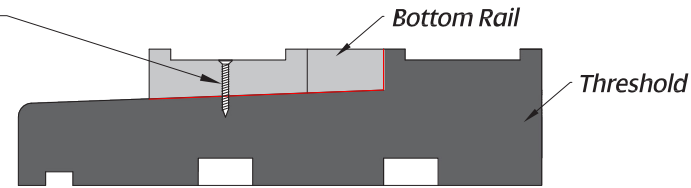This information is applicable to all HS Portal SCV schemes.

Bottom Rail Fitting Procedure

1) Make sure liberal amounts of glue is used both on the flat and on the lip before fitting the bottom rail.

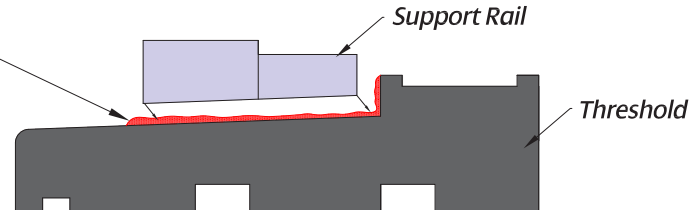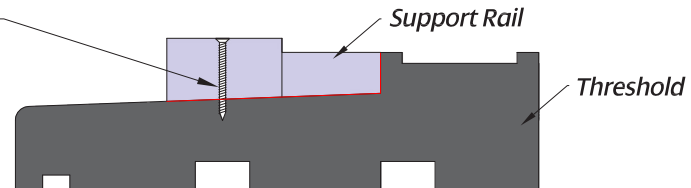Bottom Rail

Threshold

2) Once fitted screw down through into the threshold to secure in increments of around 200mm apart, wipe off excess glue, counter sink the screw so it does not interfere with the aluminum running rail.

Bottom Rail

Threshold

Support Rail Fitting Procedure

1) Make sure liberal amounts of glue is used both on the flat and on the lip before fitting the bottom rail.

Support Rail

Threshold

2) Once fitted screw down through into the threshold to secure in increments of around 200mm apart, wipe off excess glue, counter sink the screw so it does not interfere with the fixed door sash.

Support Rail

Threshold

All measurements are finished dimensions in MM.

Sealing Block Install - Support Rail
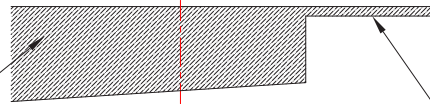### This component should be fitted last - do not paint!

Fit the HS24 Sealing Blocks as Shown
One block goes in and the second block
is cut down to 22mm leaving 26mm
spare at the end to allow the water to
escape.
When you cut the block down
make sure you cut the opposite
side to the flap, do NOT cut the flap
down at all, this needs to overlap
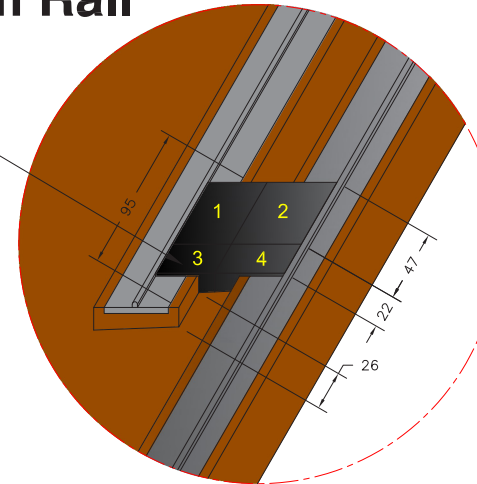the track to create the seal.
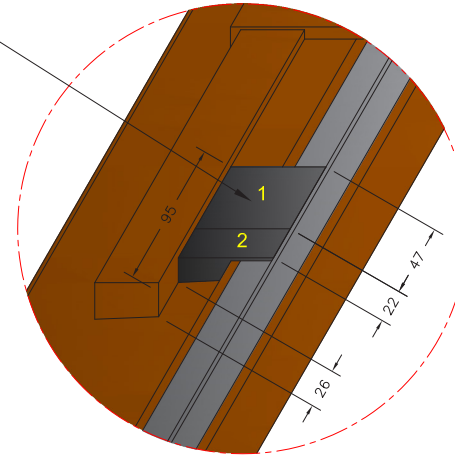
HS24 Cut this end.

HS24 Do NOT cut this flap, there is a self
adhesive pad that you need to remove the
backing and stick to the aluminium track
when fitting.

Sealing Block Install - Bottom Rail
Scheme E & L

Fit the HS24 Sealing Blocks as Shown
One block goes in and the second block
is cut down to 22mm leaving 26mm
spare at the end to allow the water to
escape. You will need to use 4 blocks
to cover both tracks, cut down and fit
back to back as shown on the drawing
When you cut the block down
make sure you cut the opposite
side to the flap, do NOT cut the flap
down at all, this needs to overlap
the track to create the seal.

All measurements are finished dimensions in MM.

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Aluminium Running Rail

CHGE	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
A		Release	PW	RP	22/03/2019	
B		Updated	PW	RP	30/10/2019	

REVISIONS

Make sure groove is free from debris and then apply liberal amounts of glue or silicon to these areas to stick down rail.
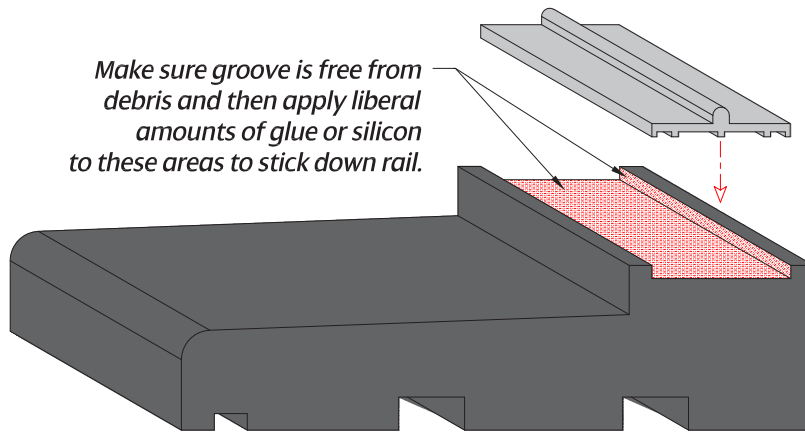
Wipe of excess glue / silicon, make sure rail is sitting flus any gaps fill with glue/silicon to seal.
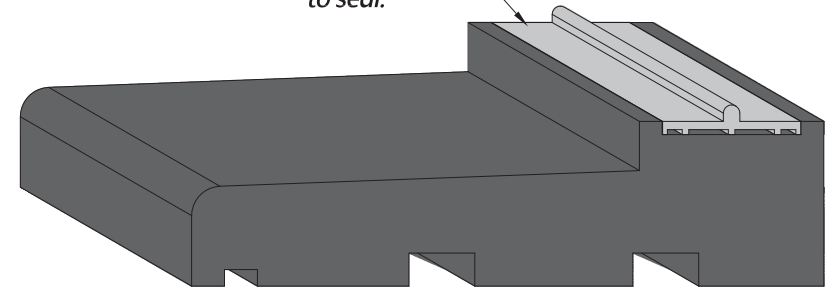
NOT TO SCALE

DO NOT MACHINE THE GROOVE TOO WIDE, THIS NEEDS TO BE A TIGHT FIT!

IMPORTANT: The HS17 aluminium running rail needs to be glued into the threshold, the glue or silicon must overspill allowing you to wipe off the excess, this will ensure no water ingress is possible preventing the chance of any leaking into the property.

All measurements are finished dimensions in MM.

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Drawing Reference:
Coastal Group

Drawing Title:
HS Portal Lift & Slide
HS17 Running Rail Installation

Product Range:
All Schemes

Additional Info: Aluminium Running Rail Installation

|	
Date Drawn:	30/10/2019
Drawn By:	Phil Walkett
Part Number:	N/A
File Name:	CG-HSP-HT-HS17-FITTING.dwg
Revision:	B
Drawing Scale:	Not to Scale
Sheet Number:	1 *of* 1

THIRD ANGLE PROJECTION

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Customer Notes: