

 **MADE IN  
BRITAIN**

**Storwell**

Established 1982

The storage specialists



# DOUBLE SKIN PARTITIONING

STEEL  
PARTITIONING

## INSTALLATION GUIDE

DOUBLE SKIN  
PARTITIONING

# INSTALLATION INSTRUCTION

## DOUBLE SKIN PROGRESSIVE BUILD PANELWORK



DOUBLE SKIN  
PARTITIONING

Document WRGD-INSTALL.1 | Dated: 25 May 2022

### Refer to Fitting Instruction Drawings:

- 
- 
- 
- 

The installation instruction is aimed at aiding the installer in the correct process for installation.

Installers should familiarize themselves with these instructions before proceeding.

## Tools (Minimum recommendations)

- Battery or 110 Volt drill  
Drill bits required 7Dia, 8Dia  
Set of driver bits
- Hammer drill 110 Volt  
Drill bits 12Dia
- HAND TOOLS  
Glass lifters; hacksaw; hammer; pliers;  
screwdriver; pop rivet gun; file; step ladders;  
line laser; spirit level
- SPANNERS  
8mm, 13mm, 15mm or adjustable spanner;  
allen key
- SETTING OUT  
String line; tape measure; line laser; spirit level
- CUTTING  
Metal shears; jigsaw; tin snips; cut-off saw;  
reciprocating saw; circular saw
- HOUSEKEEPING  
Dust pan and brush; industrial vacuum cleaner

## Pre-Installation

The following steps represent the correct order for installation.

1. Check off delivery note to ensure all components are present.
2. Allocate a safe and pre arranged area to offload and set down materials.
3. Ensure build area is free from debris and obstructions.
4. Choose a datum point (normally a corner set out off wall) line out with chalk line, C/L of floor track, remember to allow aperture for door openings.

## Build Procedure (Measure twice cut once)

### FLOOR CHANNEL (Top cap Channel where noted)

- Where 90Deg corners are required pre formed corners, floor base and head channel are supplied with a 300mm leg.
- Floor base 54W x 32D freestanding partition 3000 long. (Floor to underside 54W x 32D channel)
- Top Cap channel 54W x50D freestanding partition 3000 long. Under floor to under side of ceiling use 54W x 60D channel. Fix panels through Top Cap to keep level if required.
- Allow the following gaps for mullions and doors:
  - > Allow gap for mullion nominally every 3 panels - 50mm
  - > Allow gap for single doorset - 1030mm - Standard issue
  - > Allow gap for double door - 1877mm - Standard issue
- Drill through the floor track nominally 50mm in then at 580 mm Centre's on C/L of track. Use Hammer fixings supplied. (Can also be used for wall abutment channel or head track where concrete soffits apply) use self-drilling fixing for steel columns and lintels.



# Progressively Build (Assuming starting from a corner and working back towards a wall)

## WALL ABUTMENTS AND PANEL BUILD

- Install corner mullion into pre formed corner insert panels left and right, place pre formed top cap channel onto panel work to stabilize corner level and plumb.
- Creating a Junction off panel face. Plumb vertical line on panel face, use internal 1/2 biscuit on Centre line and attach using 4.2 x 13mm wafer head self-drilling secure in position at 580mm Centre's.
- Insert the first panel into the internal channel progressively feed this panel onto the internal 1/2 biscuit, taking care to avoid sharp edges or burrs (suitable gloves required)

Ensure the panel is plumb and vertical and is seated down into the floor track, pack to level if required.

- Progressively slide the full biscuit joint into first panel.  
Ensure there is a tight panel gap, again level to suit and repeat. NOTE a mullion is required at a maximum 3 panel intervals.
- Completion of build into a 54 x 51 wall channel for pre-made panels or 54 x 51 wall channel and cut panel filler trap for site cut panels. Attach wall channel to wall and plumb vertical face (include cut panel filler trap as required).  
Attach using hammer fixings or 4.2 x 13mm wafer head self-drilling screws if fixing into steel.
- Where pre-made end panels are being used, slide end panel tight into wall abutment channel, then pull back out to engage end of full biscuit joint with the aid of glass lifters.

- Where cut panels are required, cut panel to required size, slide end panel tight into wall abutment channel and cut panel filler trap, then pull back out to engage end of full biscuit joint with the aid of glass lifter

## MULLION ASSEMBLY

- The mullion 50x50 or 100x50 will come supplied pre - fabricated with 1/2 Biscuit channel attached.  
This applies to either a Corner, 3 Way or 2 Way mullion.
- Mullions should be carefully placed into the panel joint. Set plumb and square. The hole for floor fixing will be drilled through the base plate using a 12mm drill. Fit the M10x90mm Sleeve anchors using a 5mm Allen Key (torque 25Nm)
- Check again that the mullion is plumb and vertical when the holding down bolts have been tightened up. It maybe necessary depending on the level of the floor to use shims under the base plate. (Tighten bolts re check and align)

## FINISHING WORKS

- 100mm black plastic skirting (option) Attach 3M lengths with black fixings at nom 1M. Centre's.
- Clean build area of any offcut debris and put into the agreed waste bin / skip.
- Wipe down face of panels with diluted glass cleaner 2/1 and soft cloth or micro fibre cloth.

## GENERAL INFORMATION - SYSTEM DATA STANDARD ITEMS

<b>PANEL WIDTHS</b>	All Steel panels	950mm	500mm	300mm
	Steel Glass Steel Panels (Single Glazed)	950mm	500mm	300mm
<b>STANDARD PANEL HEIGHT</b>		2440mm	2700mm	3000mm
<b>GLASS SIZES</b>	To suit S/G/S	Steel Dado 1086mm glazed 954mm steel above. (Height less 5mm width less 64mm)		
	950mm Mod	Cut size 949mm High x 886mm Wide		
	500mm Mod	Cut size 949mm High x 436mm Wide		
	300mm Mod	Cut size 949mm High x 236mm Wide		

# INSTALLATION INSTRUCTION

## DOUBLE SKIN PROGRESSIVE BUILD DOORS



DOUBLE SKIN  
PARTITIONING

### Refer to Fitting Instruction Drawings:

- WRGD.S.I.D. for general details
- WRGD.DFI for doorframes

The installation instruction is aimed at aiding the installer in the correct process for installation.

Installers should familiarize themselves with these instructions before proceeding.

### Tools (Minimum recommendations)

- Battery or 110 Volt drill  
Drill bits required 5mmDia  
Set of Driver bits
- Hammer Drill 110 Volt  
Drill bits 12Dia.
- HAND TOOLS  
Glass lifters; hacksaw; hammer; pliers;  
screwdriver; pop rivet gun; file; step ladders
- SPANNERS  
8mm - 17mm
- SETTING OUT  
String Line; tape measure; spot laser; spirit level
- CUTTING  
Metal shears; jigsaw; tin snips; cut off saw;  
reciprocating saw; circular saw
- HOUSEKEEPING  
Dust pan and brush; industrial vacuum cleaner

### Pre-Installation

The following steps represent the correct order for installation.

1. Check off delivery note to ensure all components are present.
2. Allocate a safe and pre arranged area to offload and set down materials.
3. Ensure build area is free from debris and obstructions.
4. Choose a datum point (normally a corner set out off wall) line out with chalk line, C/L of floor track, remember to allow aperture for door openings.



### DOOR FRAME ASSEMBLY

Refer to Drawing WRGD.DFI

- During the build where a double or single door set is required this will be built off a Mullion face.
- All Doors will generally require a mullion at each end.

**NOTE** double door frame will arrive in kit form and will require the lintel to be fitted onto the vertical side posts

Refer to the above drawing.

- Doors leaves are pre assembled during manufacture and should not require further works.

The door units are supplied with Stainless Steel Butt Hinges for on site fitting. It is recommended these leaves are hung onto the doorframes once frame is built to ensure that leaves hang correctly. (Leaves can then be removed to minimize damage during build).

# Installation of Door Frames

- Ensure the Mullion adjacent to the doorframe is Plumb and level. Level door head/pack door frame leg to suit.
- FOLLOW Assembly Instruction Drawing WRGD.DFI
- On completion fit Euro Profile Cylinder and lever handles, with the door in the open position operate the cylinder from both sides to ensure lock works smoothly and correctly.  
Close the door and repeat the action. If the door locks and unlocks successfully it has been fitted correctly.  
If the locking system is stiff to lock or unlock adjust the leaf and frame.
- Please ensure that once installed you regularly lubricate each individual locking point to help provide a smooth and problem free operation.



## FINISHING WORKS

- Install ironmongery as per instructions supplied.
- Clean glass in pre glazed V/P.
- Clean glass and partition removing any marks.
- Clean build area of any offcuts debris and put into the agreed waste bin / skip.
- Wipe down face of panels with diluted glass cleaner 2/1 and soft cloth or micro fibre cloth.

## GENERAL INFORMATION - SYSTEM DATA STANDARD ITEMS

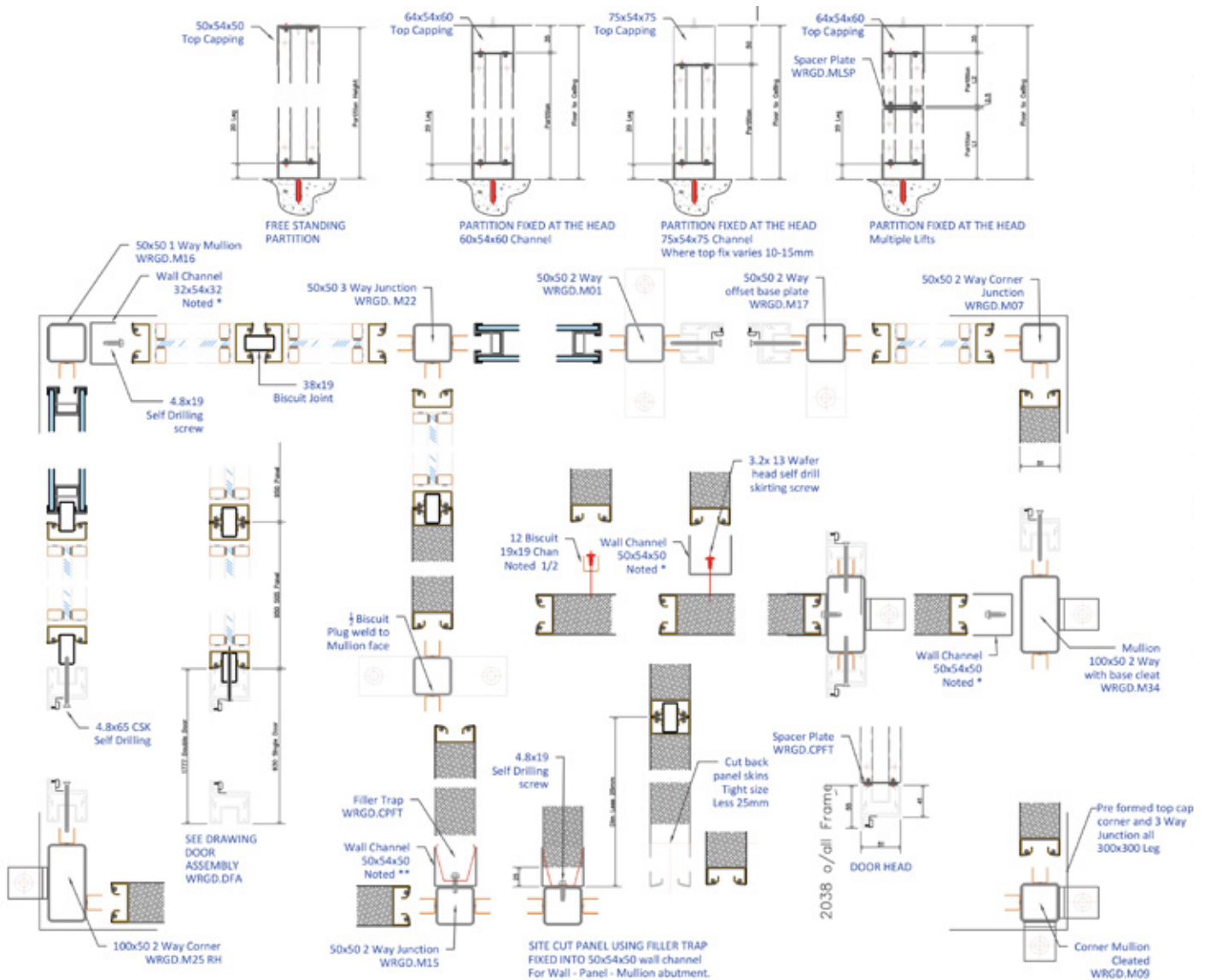
Refer to Door Specifications

DOOR WIDTHS				
SINGLE	2040H o/all	x	930W o/all	
	2040H to over panel		930 Module Width <i>(930W Over panel)</i>	
	1985 Clear Height		820 Clear Width	
	<b>LEAF</b>			
	<b>1984H</b>		<b>841W</b>	
DOUBLE	2040H o/all	x	1777W o/all	
	2040H to over panel		1777 Module Width <i>(1777W Over panel)</i>	
	1985 Clear Height		1668 Clear Width	
	<b>LEAF</b>			
	<b>1984H</b>		<b>841W x 2</b>	

**VISION PANEL** 448 x 448







## GENERAL NOTES

The abutment details shown are typical connection details, these are not totally exhaustive of all details offered.

## ITEMS OF NOTE

- Most connections will be into a 1/2 biscuit joint
- All 50x54x50 Wall Channels noted thus \* on drawing. Used for Full panel starts.
- All 50x54x50 Wall Channels noted thus \*\* on drawing. Used for end cut panels.
- All 32x54x32 Wall channels noted thus \* on drawings.
- Always used where Glazed

- panels Start/ finish into a channel
- TOLLERANCES Shim or Cut Leg to level floor.

## FIXINGS

- Hammer fix through 32x54x32 Floor Channel @ 580 Ctrs 5 Per floor base.
- 2No per Leg on pre formed corner
- CSK M10 Sleeve anchors into concrete floor
- M10x40 Coach screws into 38mm Particle board mezz floor.
- 3.2x13 Wafer head screw 3 Per top capping
- 2 Per top cap corner fix down into panel head.

## FIXINGS

Channel or Half Biscuit connection into Wall -Panel - Mullion (Norn 580 Ctrs)

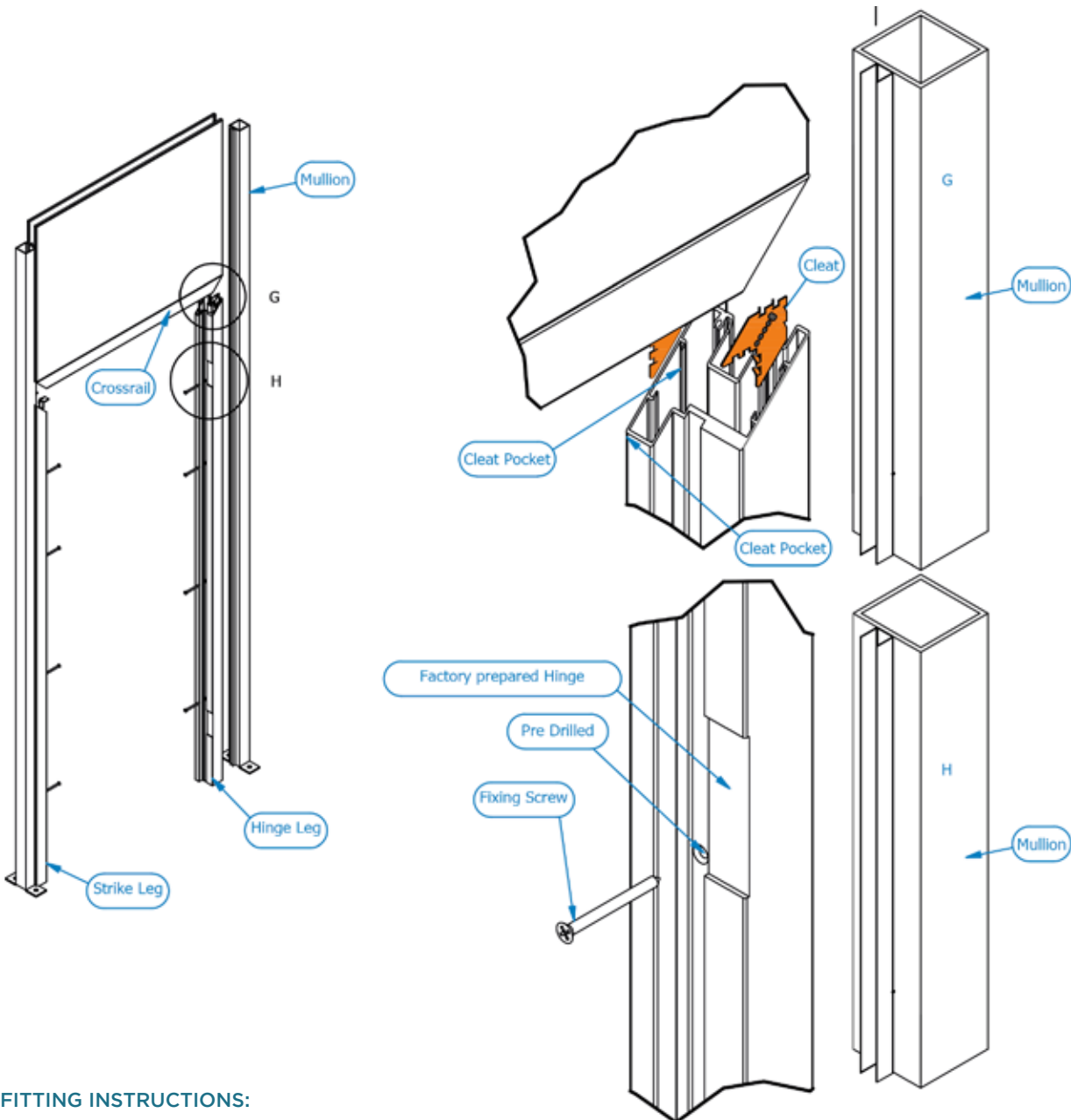
2 Per leg of pre formed top cap corner 300x300

- 4.8x19 Hex Head self drilling screw. for Abutment channels into Mullion Faces.
- 4.8x65 Countersunk self drilling screw Through door frame into Mullion.

System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	07/04/2022	Drawing Title	Double Skin General Site Installation Details
Scale	Not to Scale		
Sheet Size	A3 Landscape	Drawing No.	WRGD.S.I.D. Rev.



DOUBLE SKIN  
PARTITIONING



**FITTING INSTRUCTIONS:**

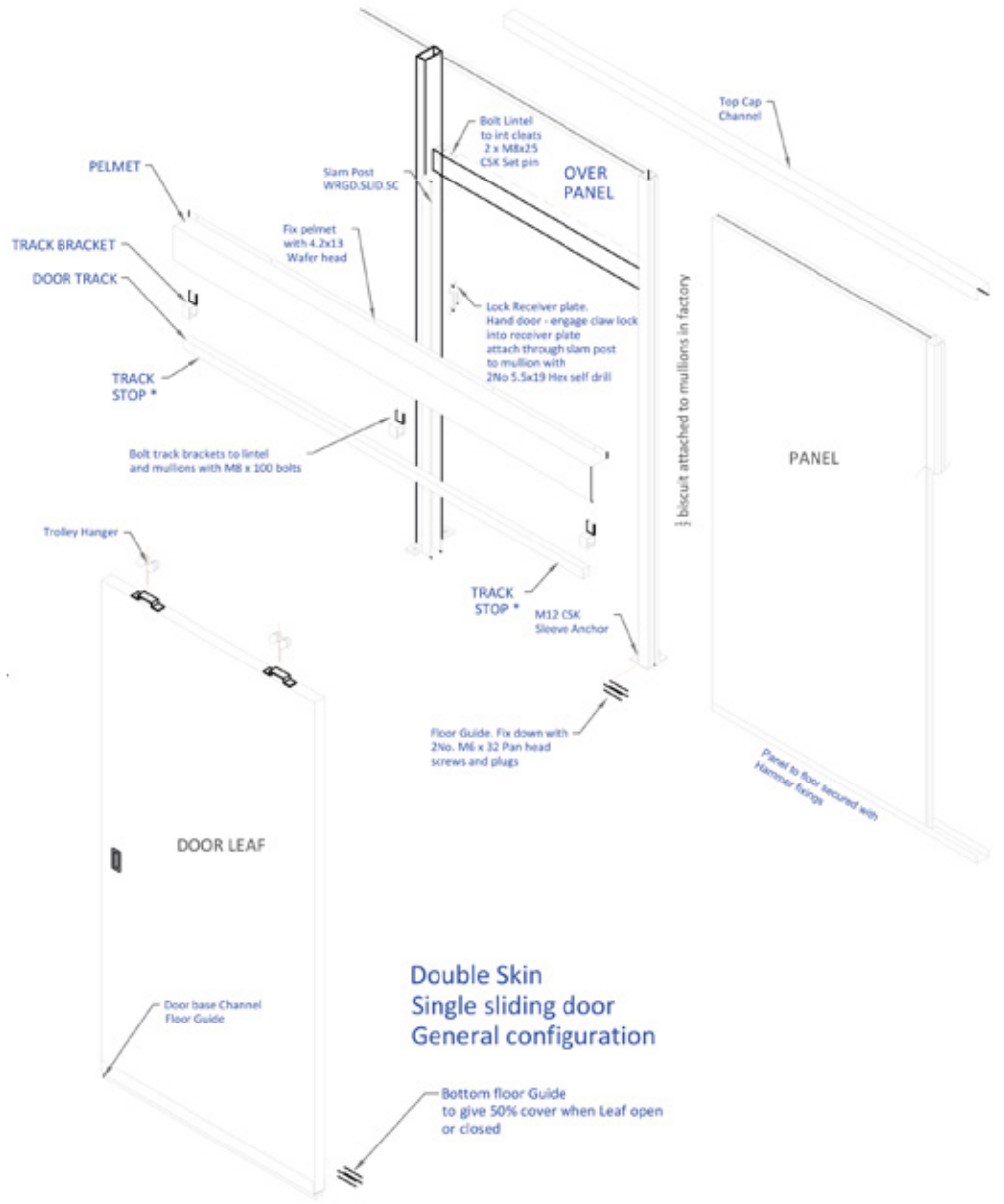
- 1 Offer hinge leg or strike leg to the mullion depending on handing and fix (as shown).
- 2 Fit the 4 cleats into the cleat pockets (as shown) into the Crossrail.
- 3 Offer the Crossrail over the mullion and lower down into both uprights, ensuring the cleats line up with the cleat pockets in the uprights.
- 4 Ensuring the surface of the paint is protected, knock down the Crossrail until the mitre's are fully home, slide the overpanel over the crossrail and push up to the mullion. Now fix the second mullion.
- 5 Ensure the frame is level and plumb, using the fixings supplied, fix each upright to the mullion
- 6 Offer the doorleaf to the frame, ensure the hinges are lined up with the pre-drilled holes, fix the hinges using the taptites supplied.
- 7 Cut bubble gasket to length and push into recess position in the doorframe. Top of gasket should be mitred to suit head of frame.
- 8 Fit ironmongery required.
- 9 Clean down and remove any surplus materials.

**REFER TO INSTALLATION INSTRUCTION Ref 2.3**

System	Double Skin	File Name	Installation
Drawn by	EJP	Material	As Noted
Date	31/03/2022	Drawing Title	Hinged Door Frame Site Installation Details
Scale	Not to Scale		
Sheet Size	A4 Landscape	Drawing No.	WRGD.DFI Rev.

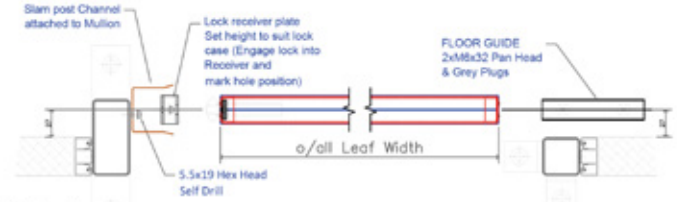
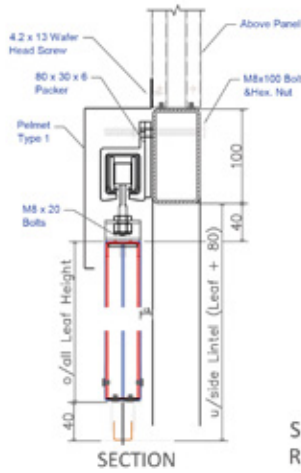
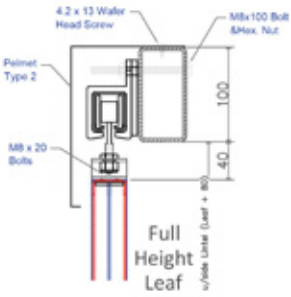
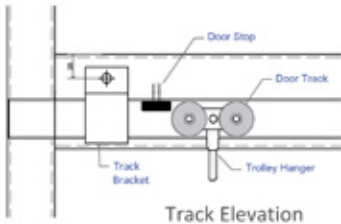


**DOUBLE SKIN PARTITIONING**



**Double Skin  
Single sliding door  
General configuration**

Bottom floor Guide to give 50% cover when Leaf open or closed



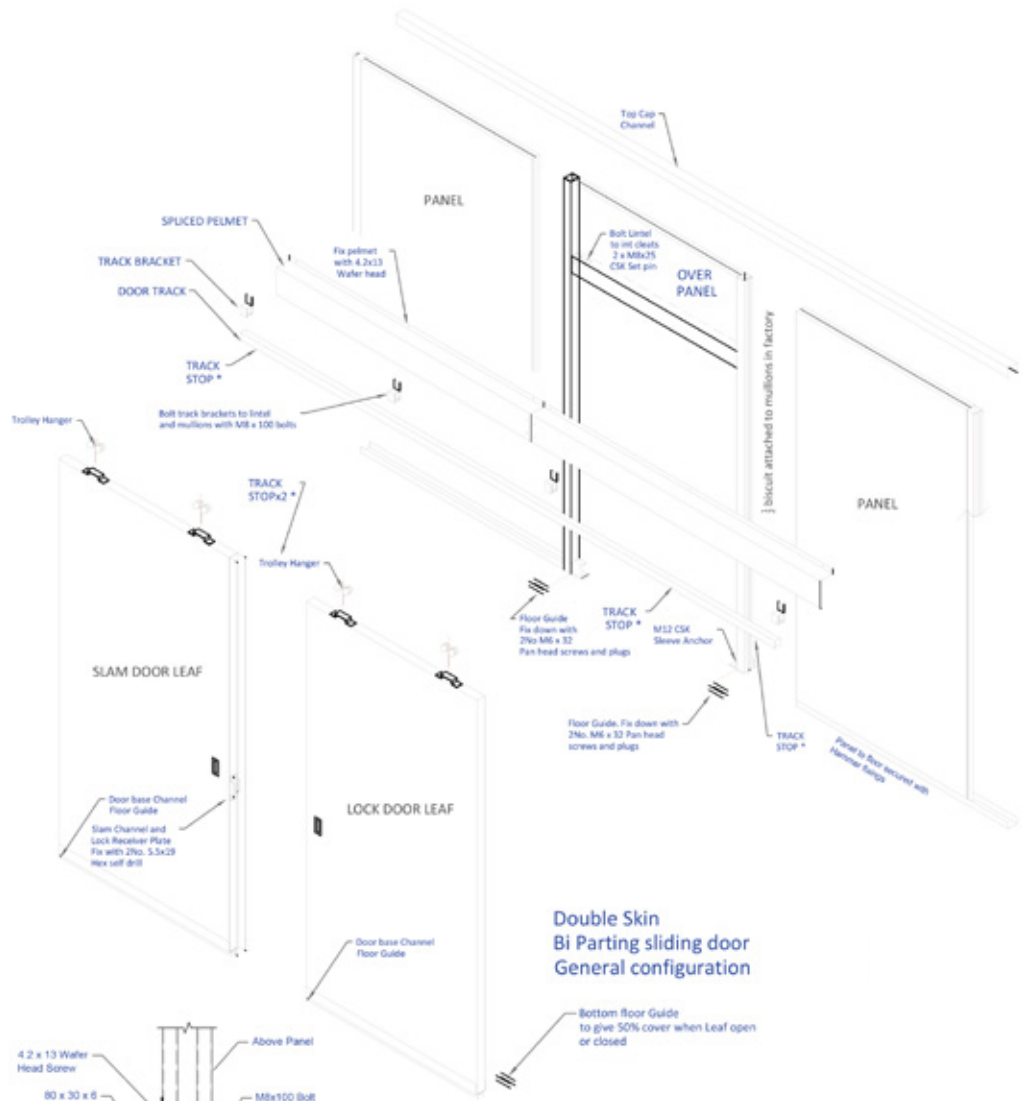
Refer also to drawing No WRGD.SSDA

System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	07/04/2022	Drawing Title	Single Sliding Door Installation Details
Scale	Not to Scale		
Sheet Size	A3 Landscape	Drawing No.	WRGD.SSDI Rev.

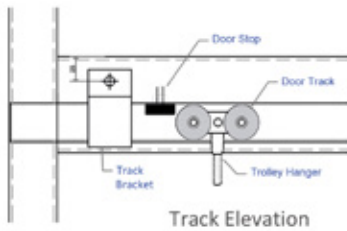


**DOUBLE SKIN  
PARTITIONING**

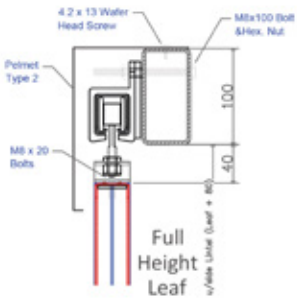




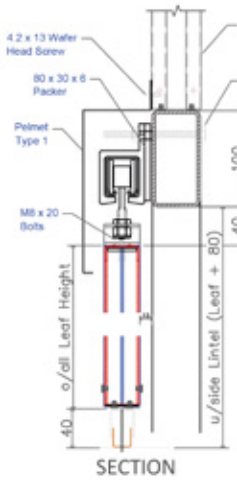
Double Skin Bi Parting sliding door General configuration



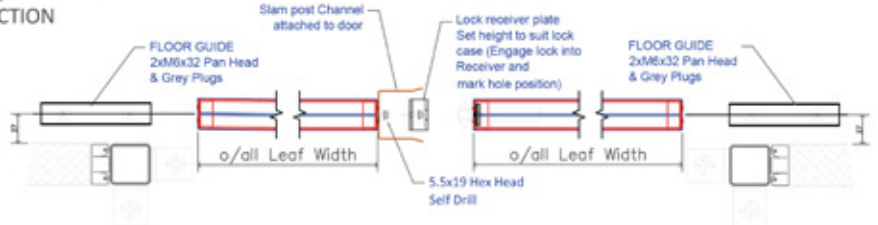
Track Elevation



Full Height Leaf



SECTION

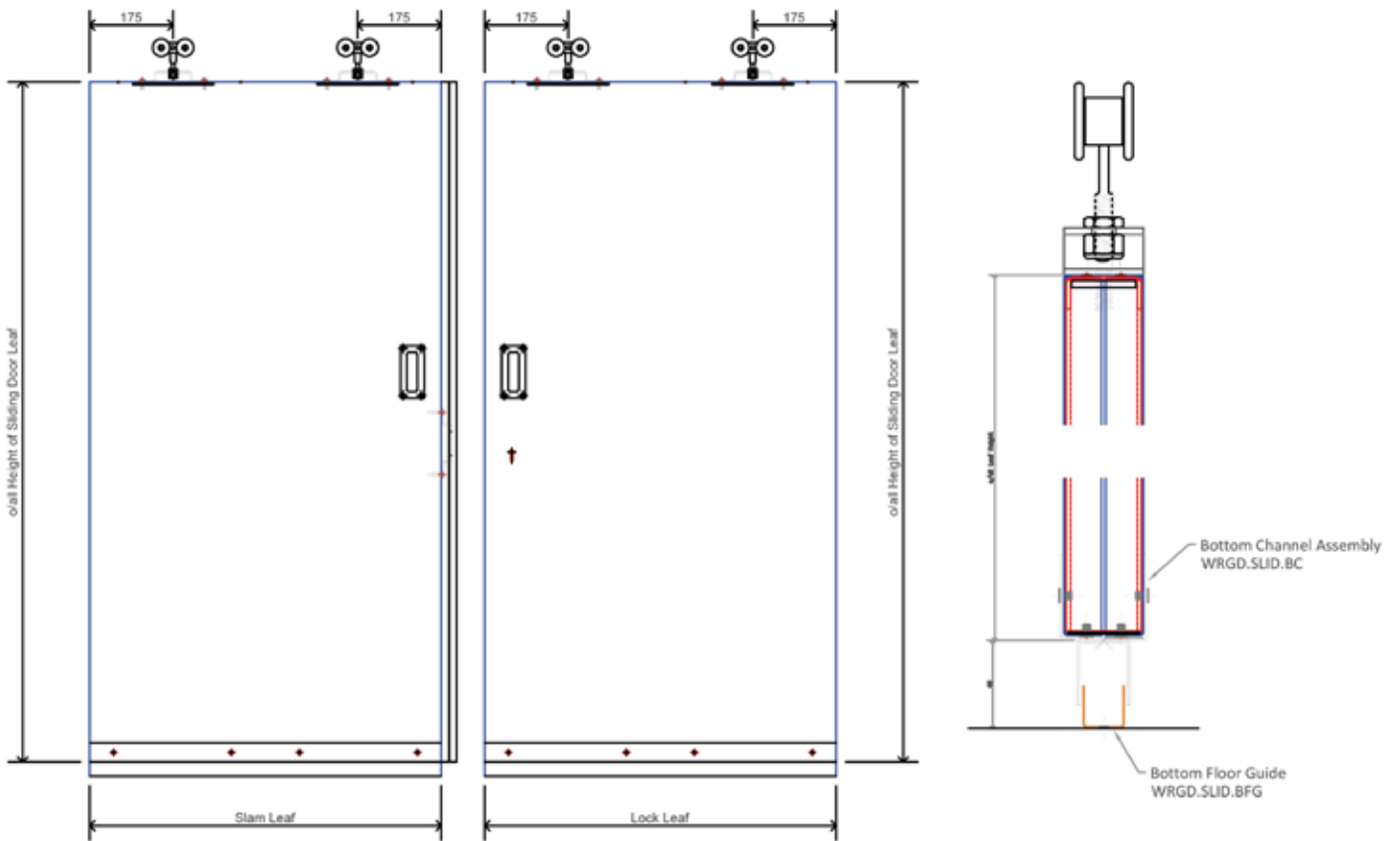
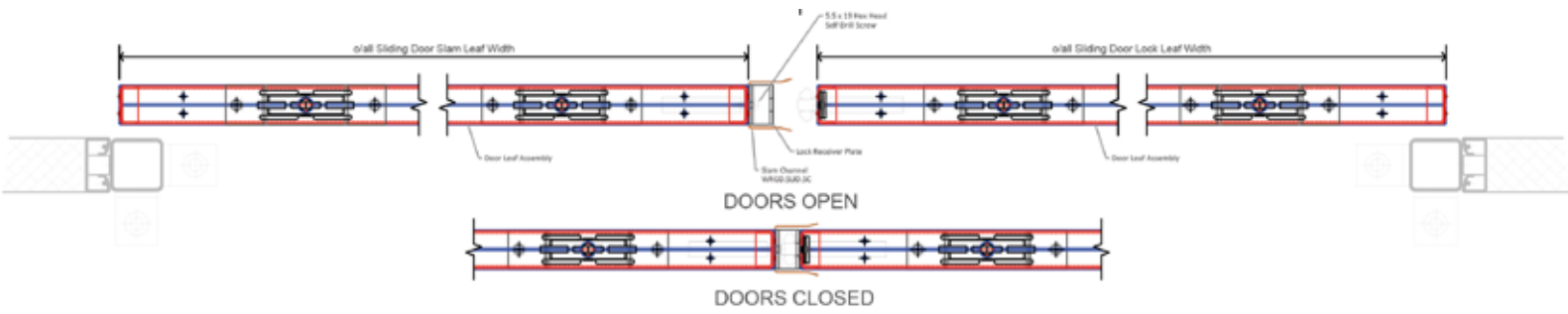


Refer also to drawing No WRGD.BPSDA

System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	07/04/2022	Drawing Title	Bi Parting Sliding Door Installation Details
Scale	Not to Scale		
Sheet Size	A3 Landscape	Drawing No.	WRGD.BPSDI Rev.



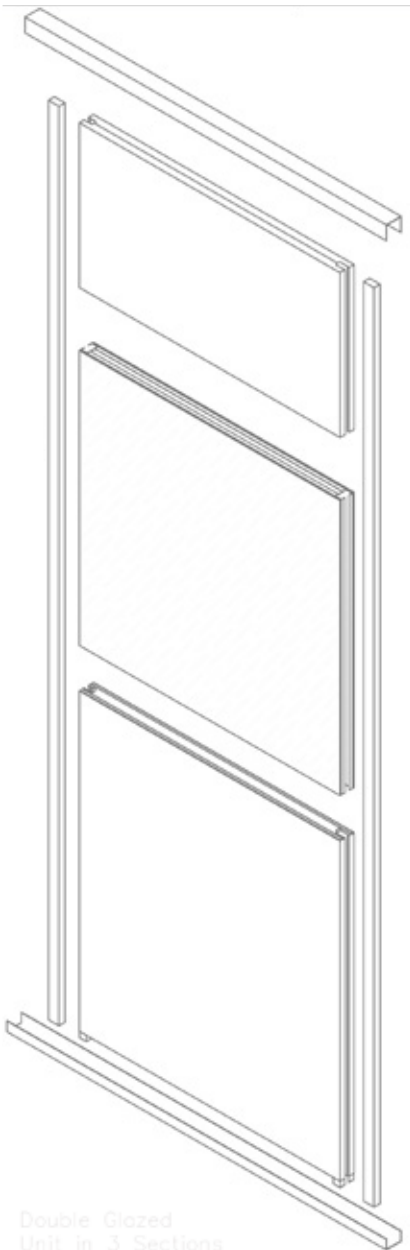
DOUBLE SKIN PARTITIONING



System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	31/03/2022	Drawing Title	Bi Parting Sliding Door Assembly
Scale	Not to Scale		
Sheet Size	A4	Drawing No.	WRGD.BPSDA Rev.

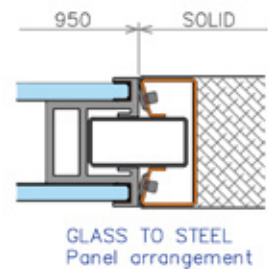
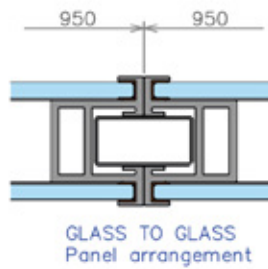
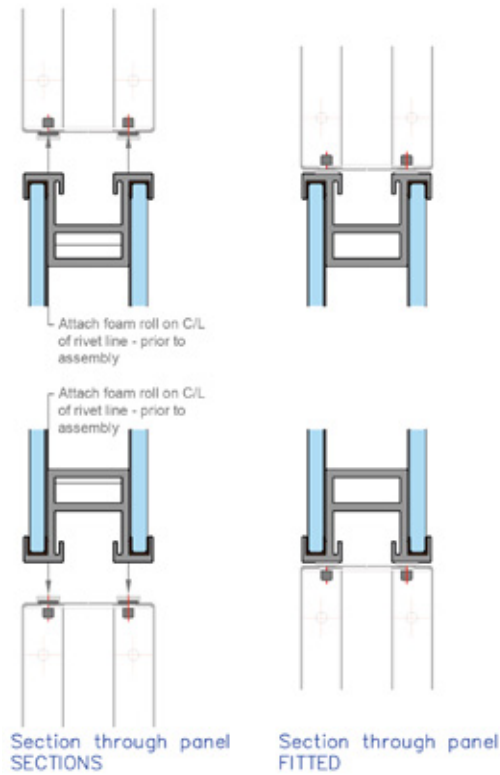


**DOUBLE SKIN  
PARTITIONING**



Double Glazed Unit in 3 Sections  
Progressively build

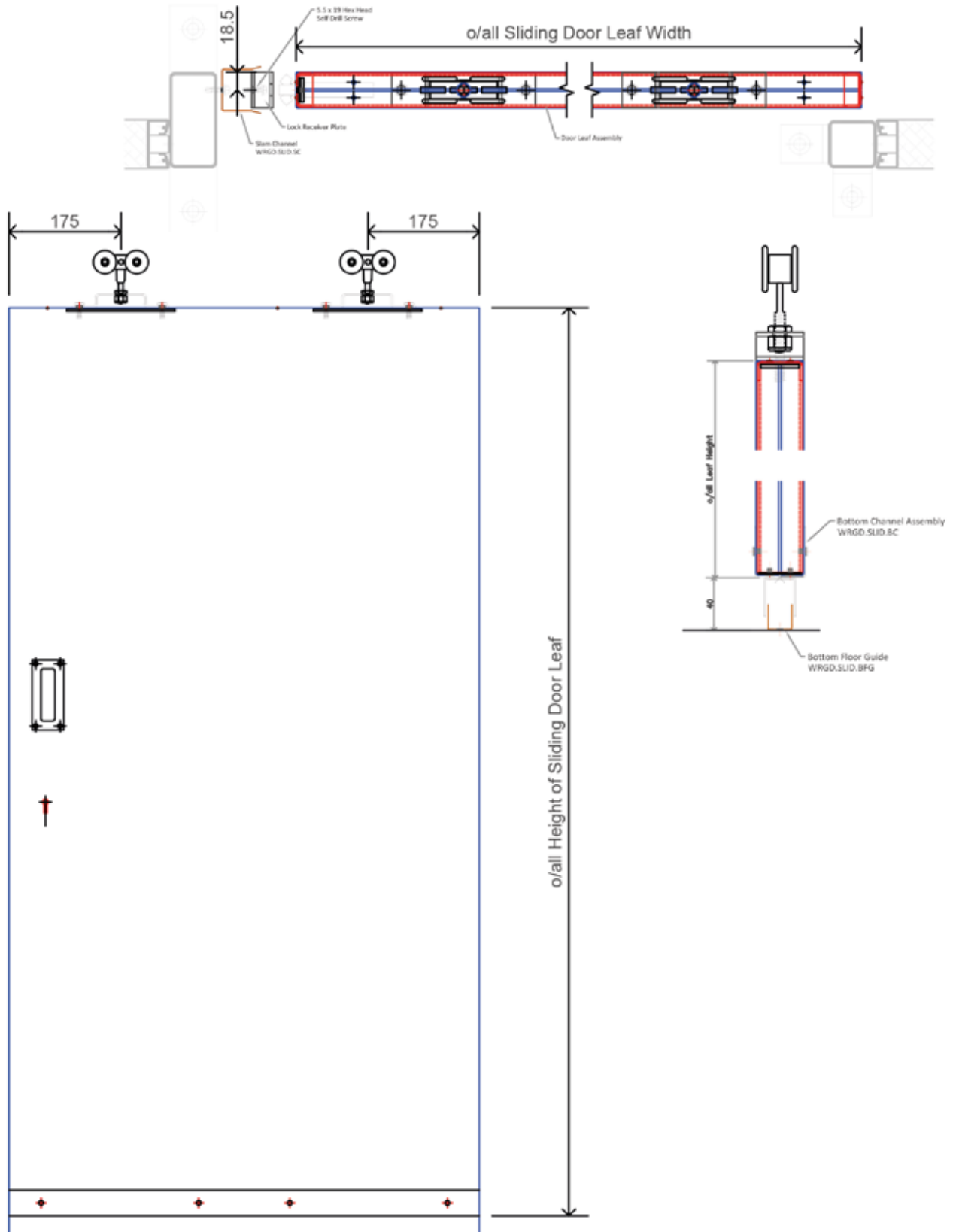
ENSURE  
3 Sections line  
through vertically



System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	07/04/2022	Drawing Title	Double Glazed Unit Site Installation Details
Scale	Not to Scale		
Sheet Size	A3 Landscape	Drawing No.	WRGD.DGU Rev.



**DOUBLE SKIN  
PARTITIONING**



System	Double Skin	File Name	Installation
Drawn by	EJP	Material	N/A
Date	31/03/2022	Drawing Title	Single Sliding Door Assembly
Scale	1:5		
Sheet Size	A4	Drawing No.	WRGD.SSDA Rev.



**DOUBLE SKIN  
PARTITIONING**