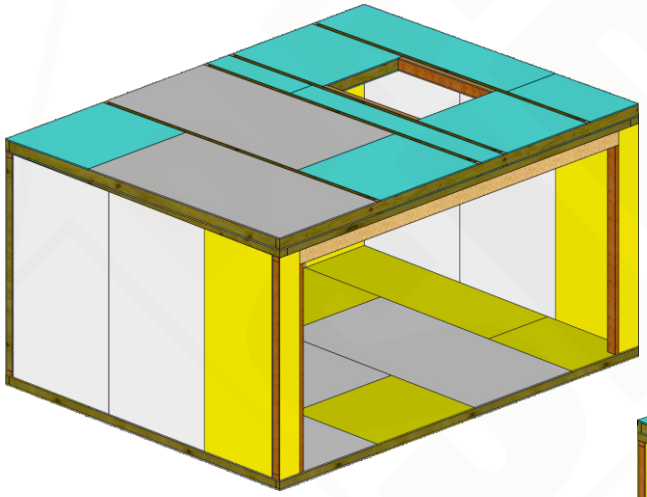
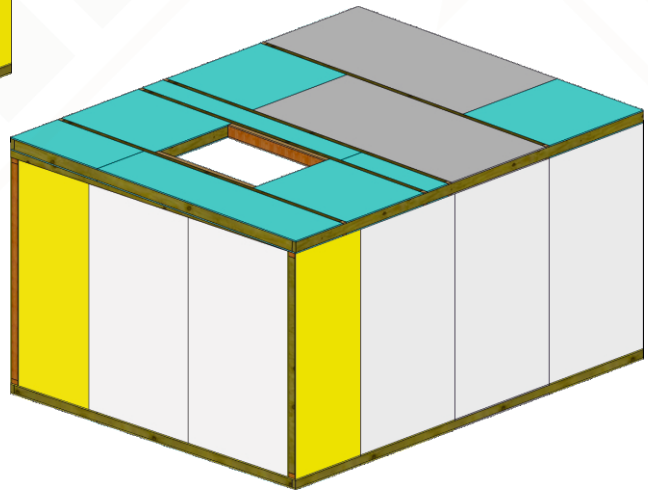
Customer Instructions

SIP Model Colour Key		
Colour	**Panel Thickness (mm)**	**Full/Cut Panel**
White	72, 98, 122, 147	Full
Orange	72	Cut
Yellow	98	Cut
Blue	122	Cut
Green	147	Cut

Client/ Company	MH Garden Rooms - Laura		
Type/ Model	Bespoke	**Project No.**	1574
Size	4500mm x 3500mm		

Ext Walls	Int Walls	Floor	Roof
98mm	n/a	98mm	122mm





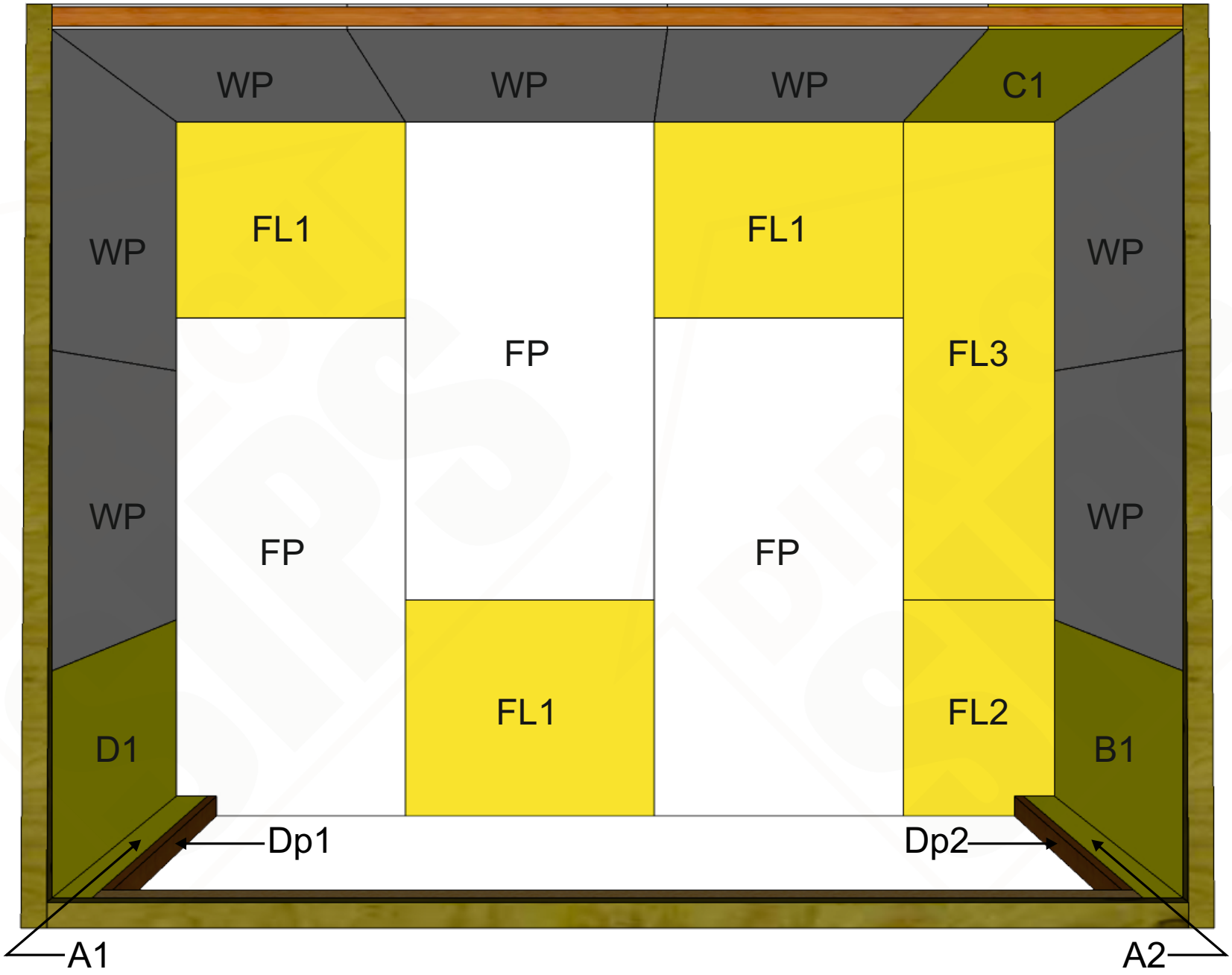
Before Starting

This booklet is a construction guide please familiarise all contractors with the technical notes in the sips construction manual.

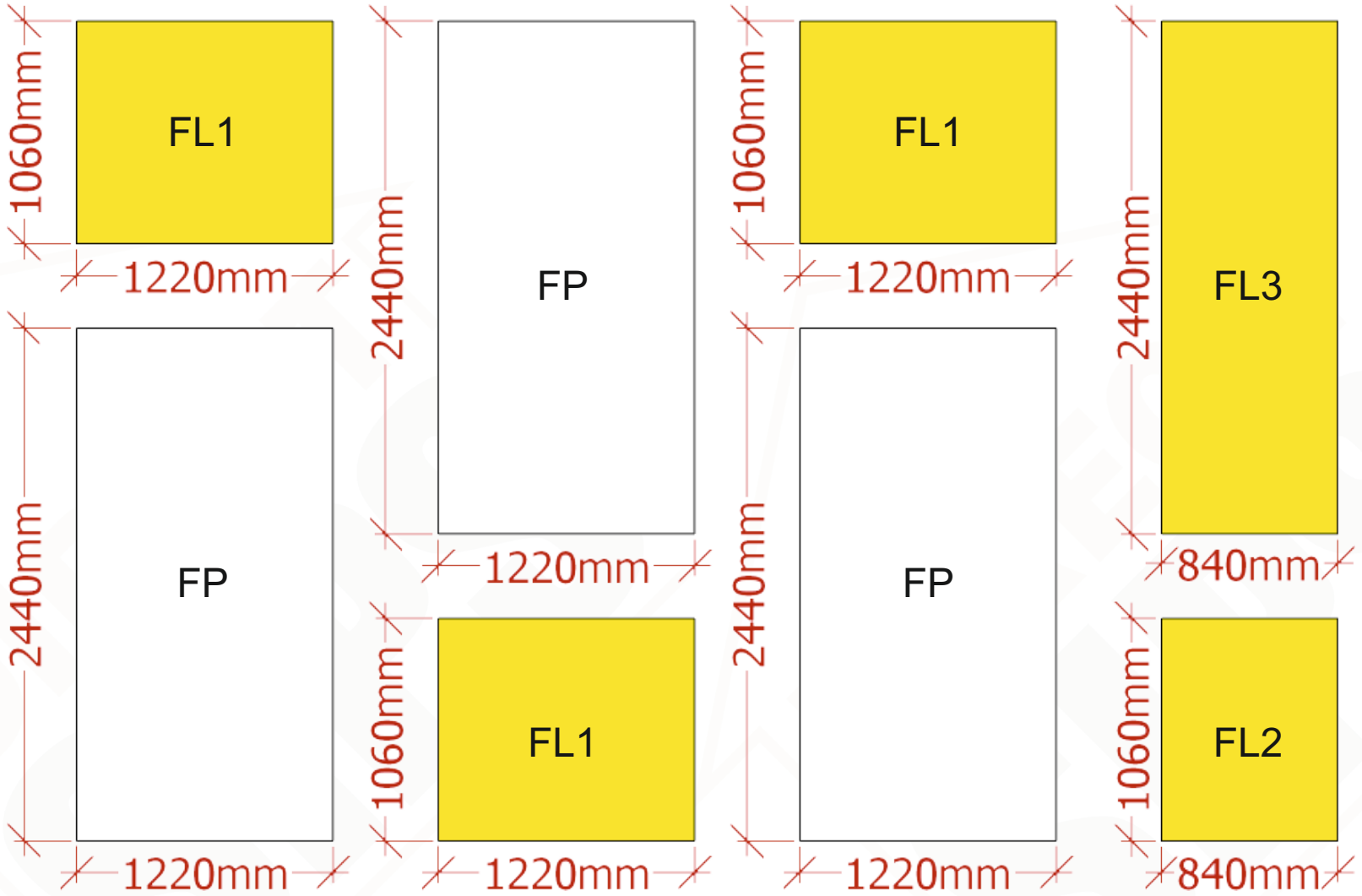
In Brief

1. Store panels in a dry place. (Moisture can make fitting more difficult)
2. Identify all panels.
3. Ensure base area is flat and free from debris (place a weed suppressor down if required).
4. Any foundations should be level and substantial enough for the intended use of the building.
5. Advice should be sort if the building is in a high wind area and the screw frequency increased if required.
6. Panels should be screwed and glued with appropriate adhesive for strength and airtightness.
7. Appropriate health and safety procedures should be followed when lifting and fixing panels, bracing should be used until walls are joined completely and props should be used when constructing the roof
8. Check the fitting of each panel before gluing.
9. Check squareness of corners.
10. Some panels are assembled with joining slips for transit and identification, it is good practise to remove them, apply adhesive and fixings then refit.
11. The building design and materials have been calculated and tested, it is the responsibility of the project manager and installer to ensure correct methods are followed for construction.
12. Treated timbers if cut should be end treated, particularly if likely to be exposed to moisture.

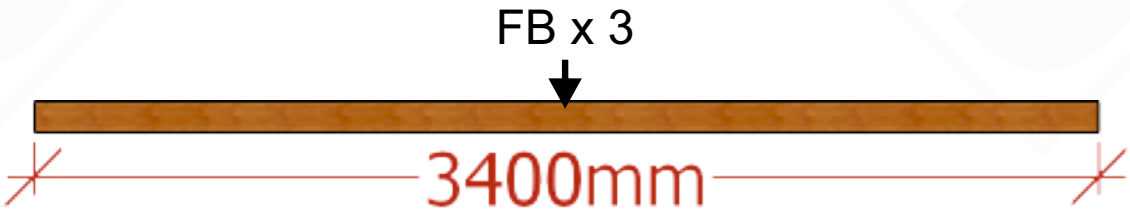
For further information on installation follow link below - www.directsips.co.uk/information-centre/installation-guides/

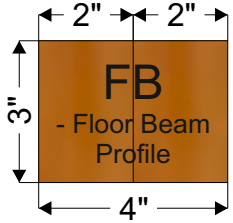


Customer Instructions	Title	Perspective Plan	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	2 of 14

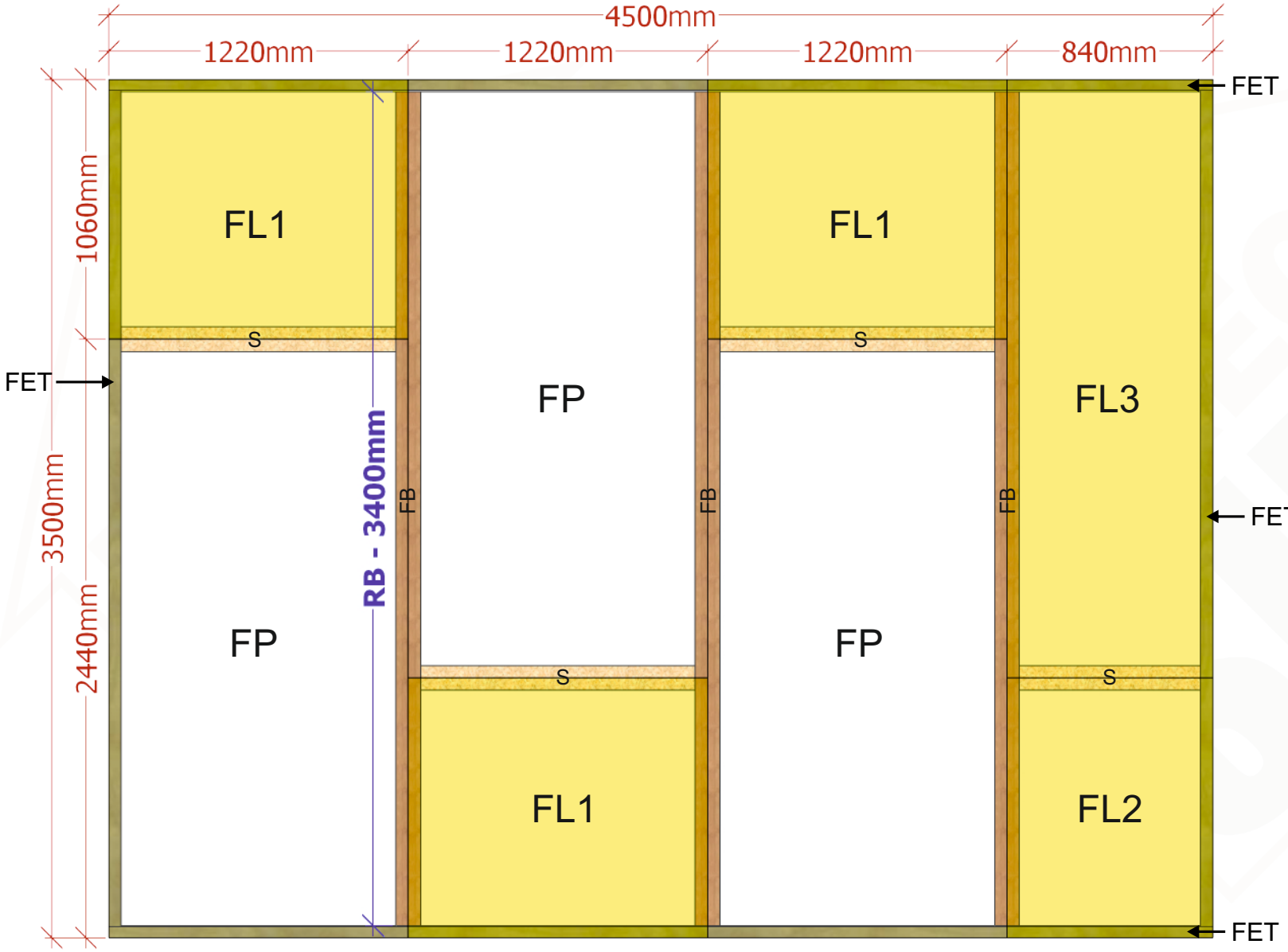


For the floor, use 40/50's to screw the panels together.





Customer Instructions	Title	Floor - 98mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	3 of 14

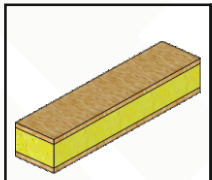


When creating the floor structure, 4x3 timber will be provided to place between the floor. All go vertical to the building, placement of beams are shown.

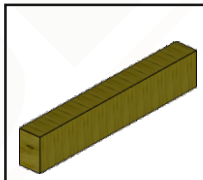
4x3 splines are placed horizontal to floor beams.

Use 50mm screws to fix SIP panels to floor beams and spline.

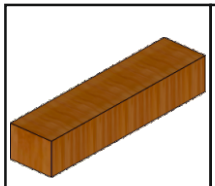
Use 50mm screws for edge timbers once all panels have been fixed together.



Spline (S)

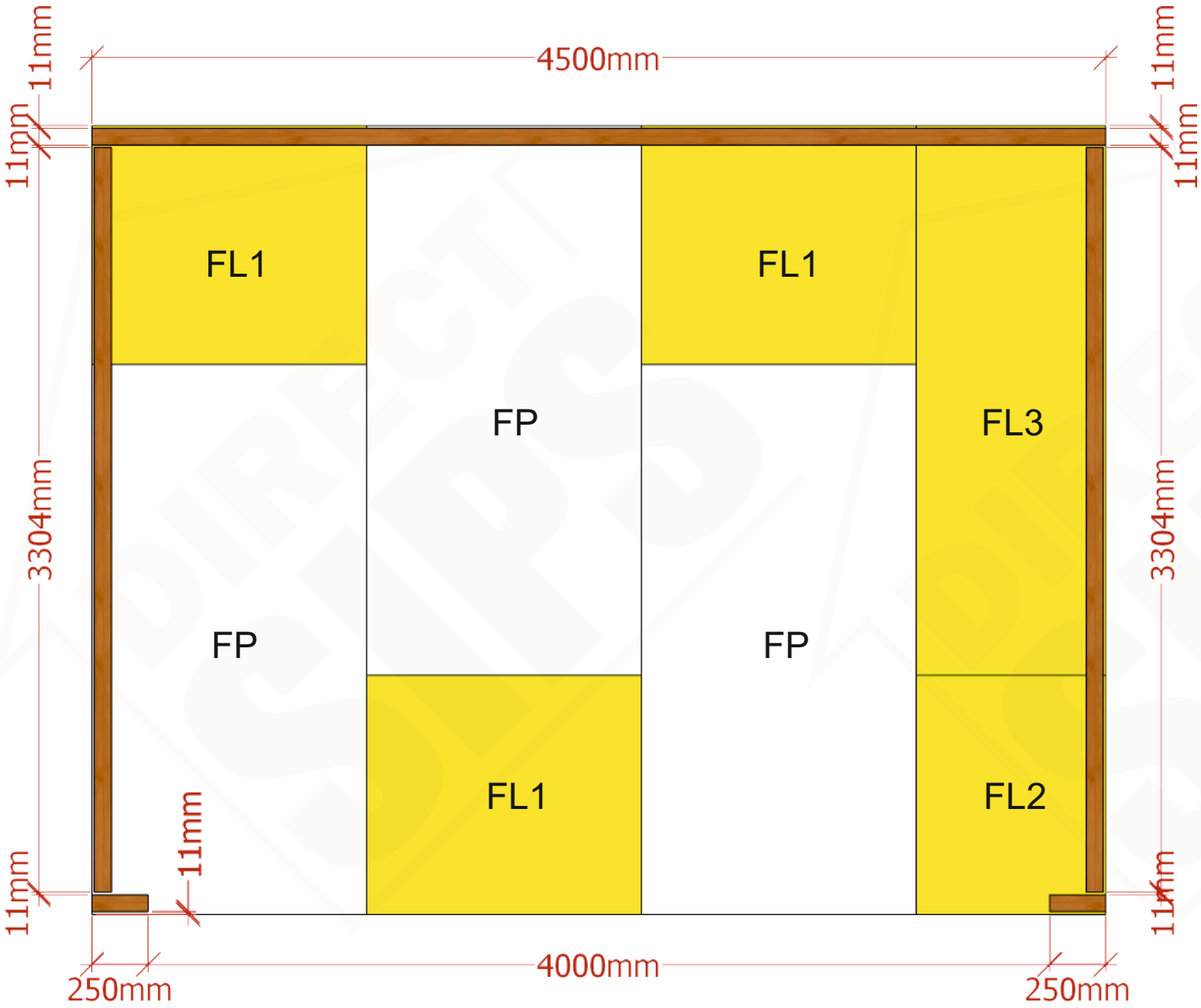


3x2 Floor Edge Timber (FET)



4x3 Floor Beam (FB)

Customer Instructions	Title	Floor Connections	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	4 of 14



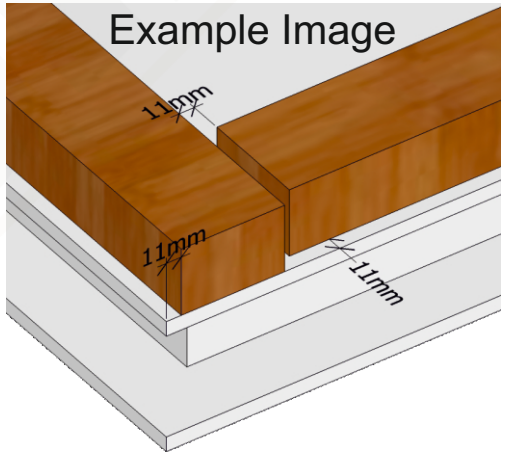
The sole plates are 3x2 timber that connects the floor to the walls, there is a 11mm fly gap so the panels can sit within. Install these after the floor has been built.

For the Sole plates use 80's screws to screws down into the panel.

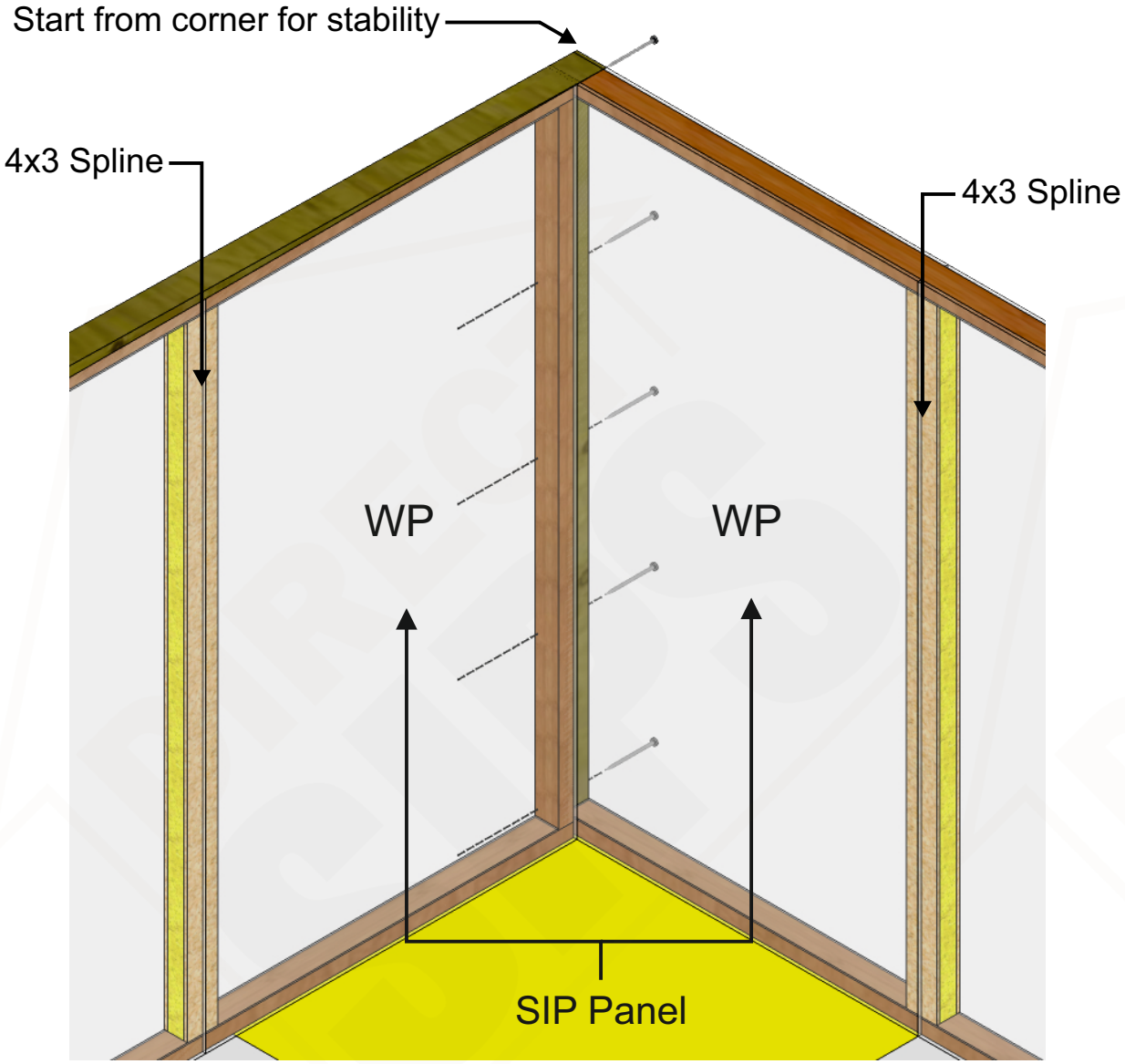
When installing be sure to glue and screw.

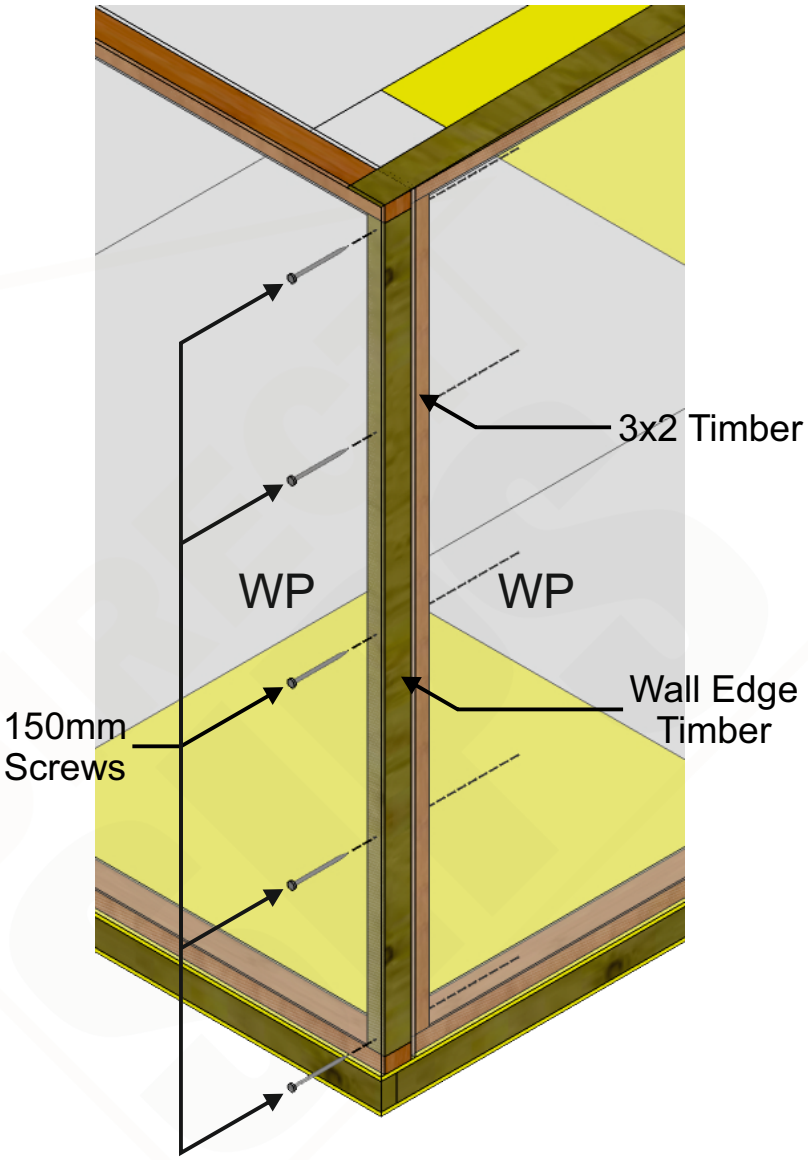
Place a screw every 600mm also staggering whilst doing this.

Example Image



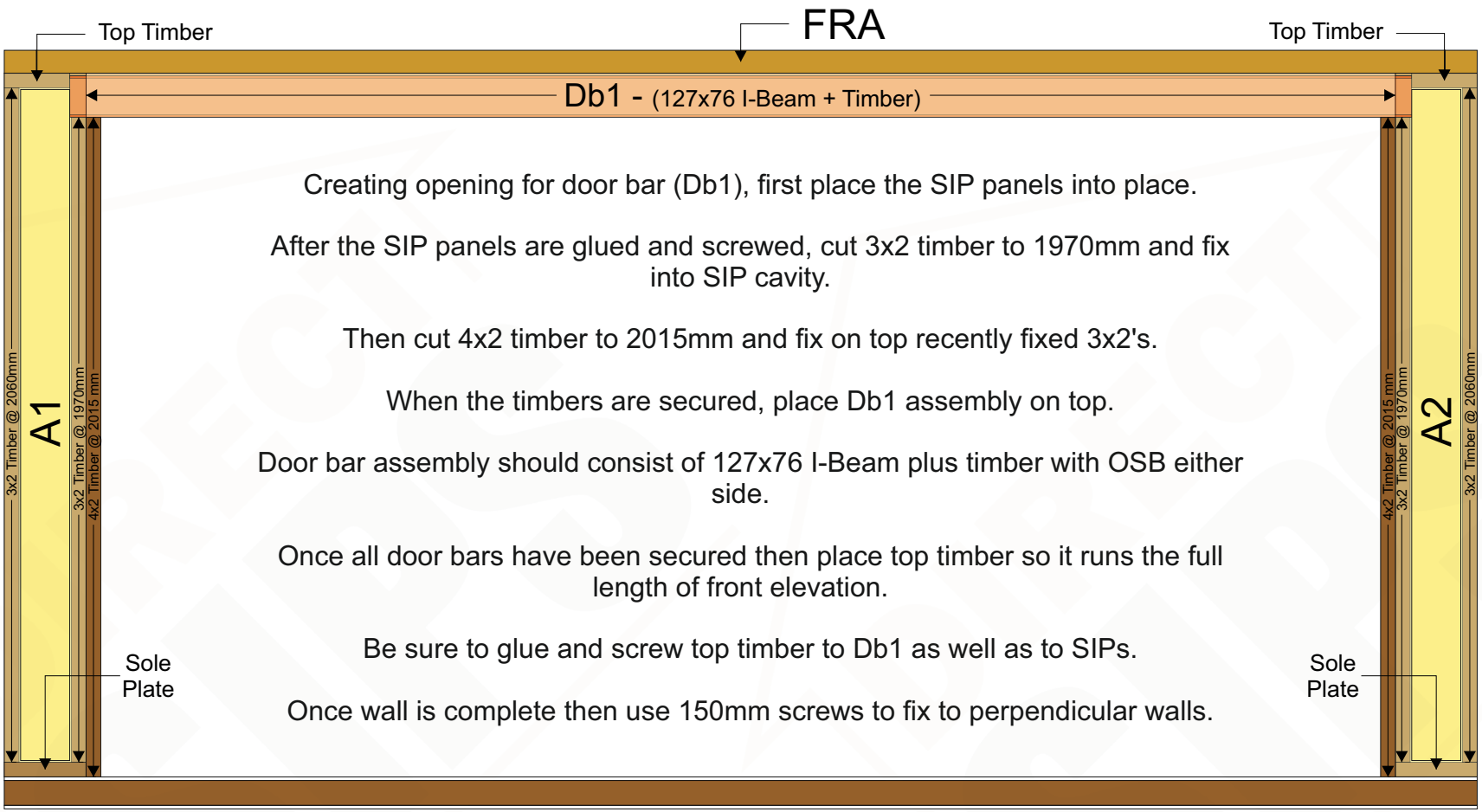
Customer Instructions	Title	Sole Plate Plan	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	5 of 14





Example of a spline and how it is placed between the walls. So SIP panel, then spline, the Splines are 4x3 Splines. This is because the walls are 98mm thick so the splines sit inside. Use 50mm screws every 200mm - 300mm.

Use 150mm screws to fix corner SIP panels together as shown in image above.



Creating opening for door bar (Db1), first place the SIP panels into place.

After the SIP panels are glued and screwed, cut 3x2 timber to 1970mm and fix into SIP cavity.

Then cut 4x2 timber to 2015mm and fix on top recently fixed 3x2's.

When the timbers are secured, place Db1 assembly on top.

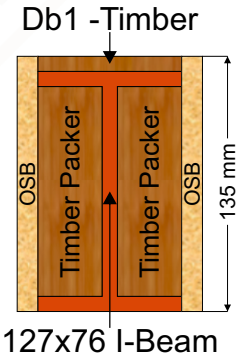
Door bar assembly should consist of 127x76 I-Beam plus timber with OSB either side.

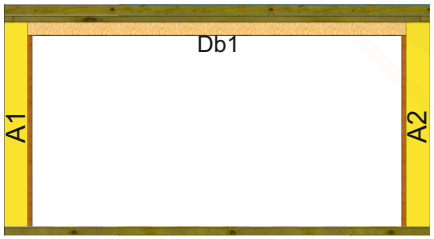
Once all door bars have been secured then place top timber so it runs the full length of front elevation.

Be sure to glue and screw top timber to Db1 as well as to SIPs.

Once wall is complete then use 150mm screws to fix to perpendicular walls.

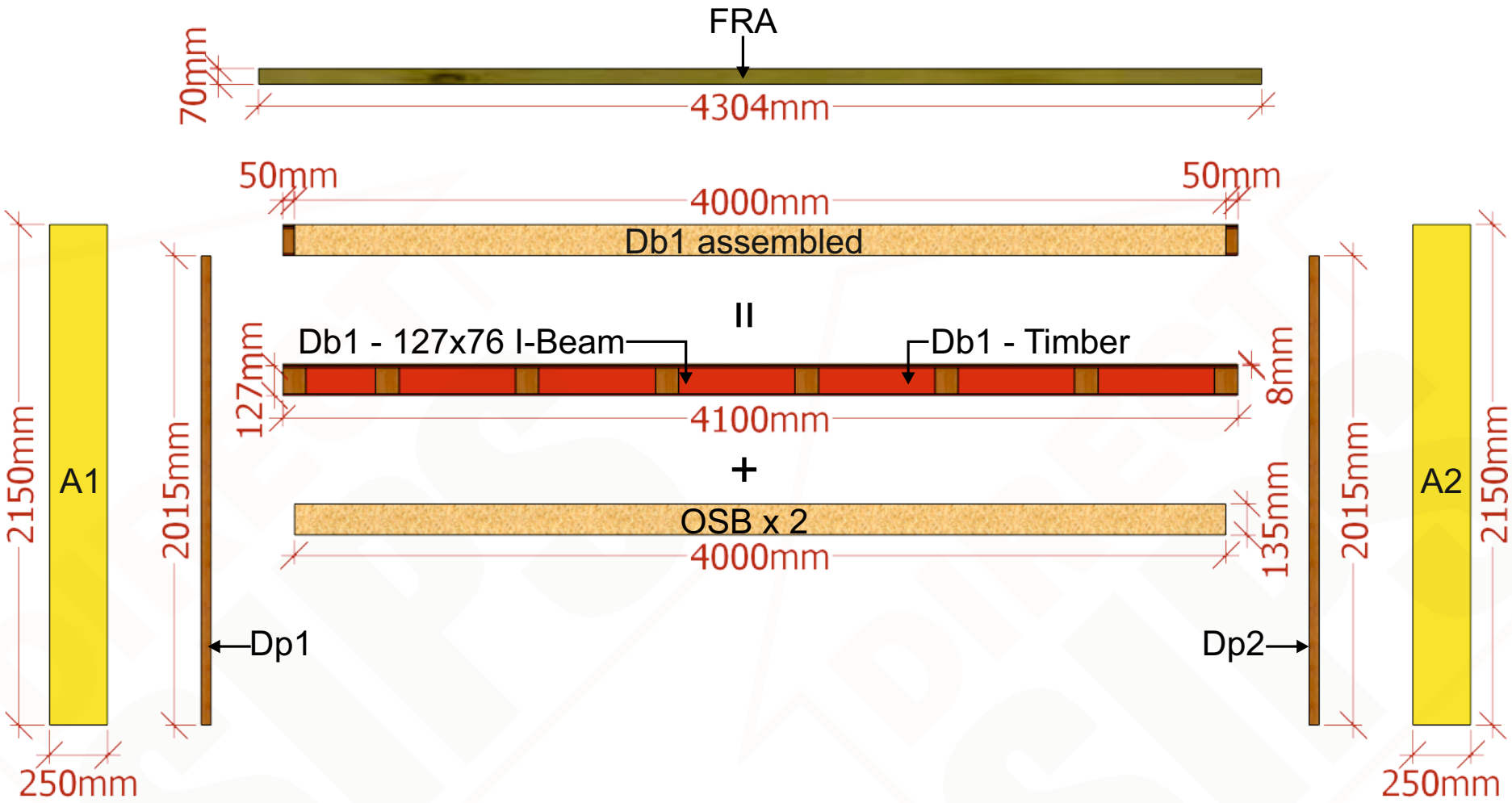
Db1 Profile





Front Elevation

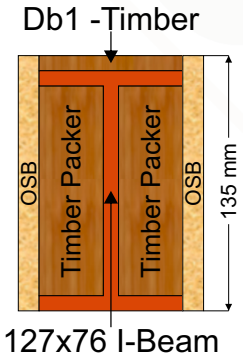
Customer Instructions	Title	Db1 Opening Assembly Details	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	7 of 14

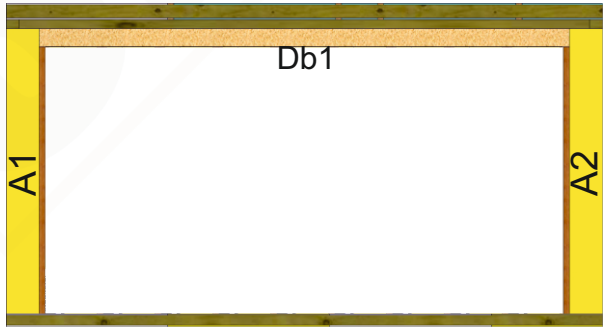


Use 40/50's to screw the panels together.

For opening assembly instruction refer to page 7.

Db1 Profile

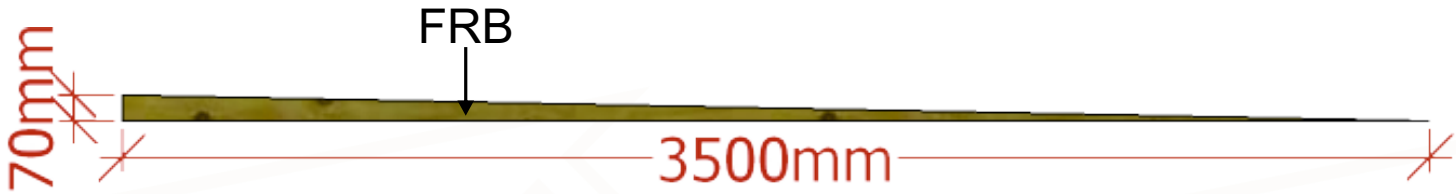


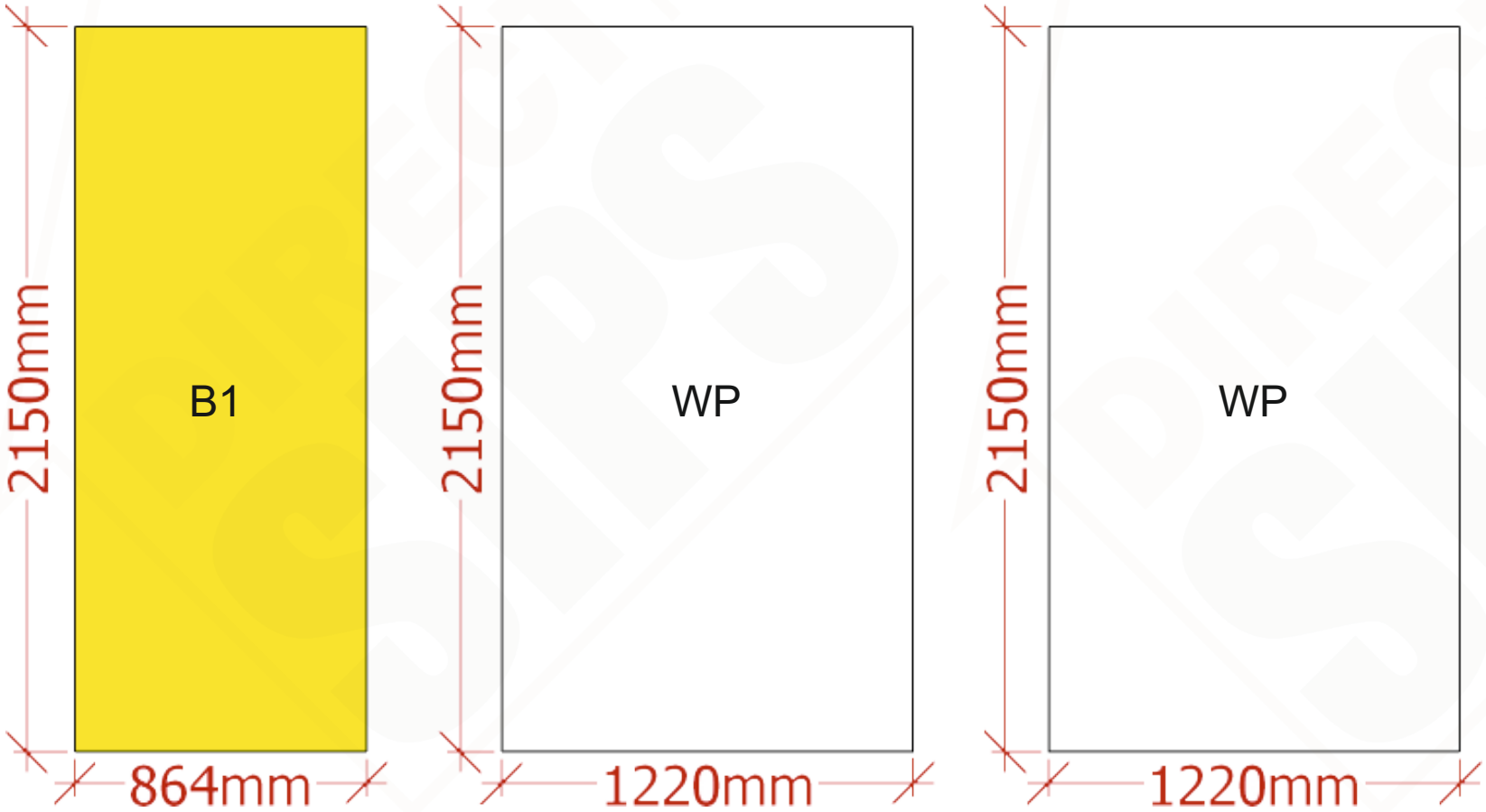


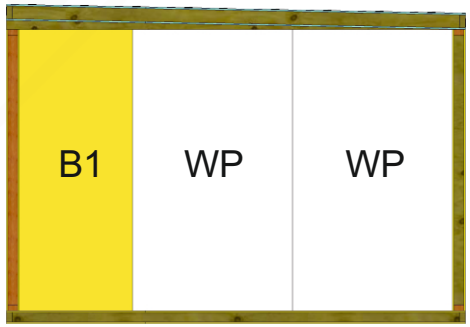
Front Elevation

Customer Instructions	Title	Front Elevation - A - 98mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	8 of 14

Use 40/50's to screw the panels together.

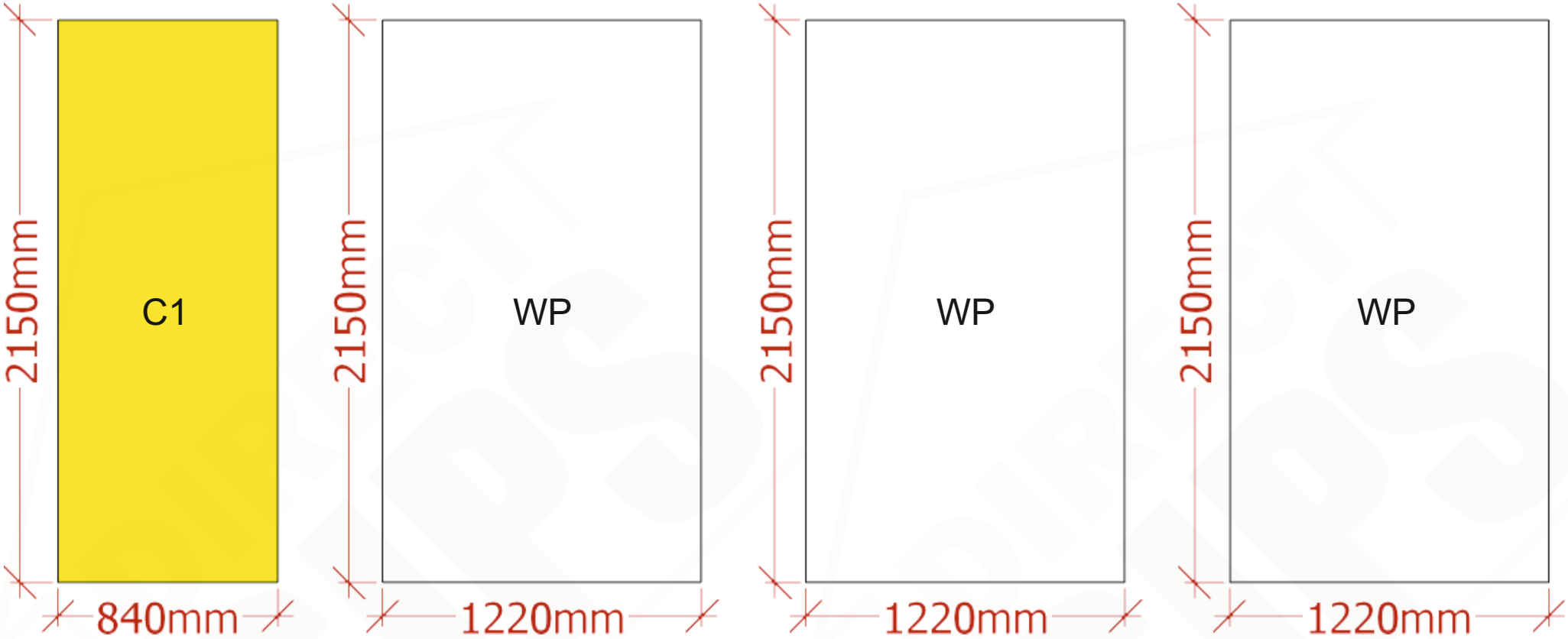




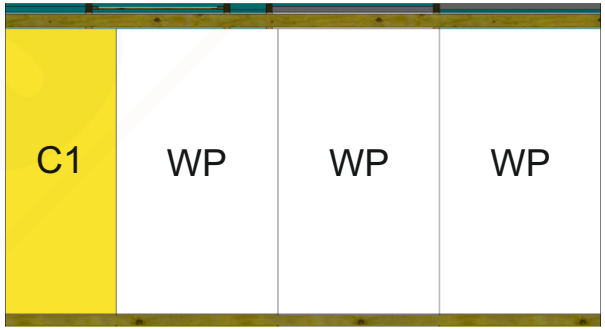


Right Elevation

Customer Instructions	Title	Right Elevation - B - 98mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	9 of 14



Use 40/50's to screw the panels together.

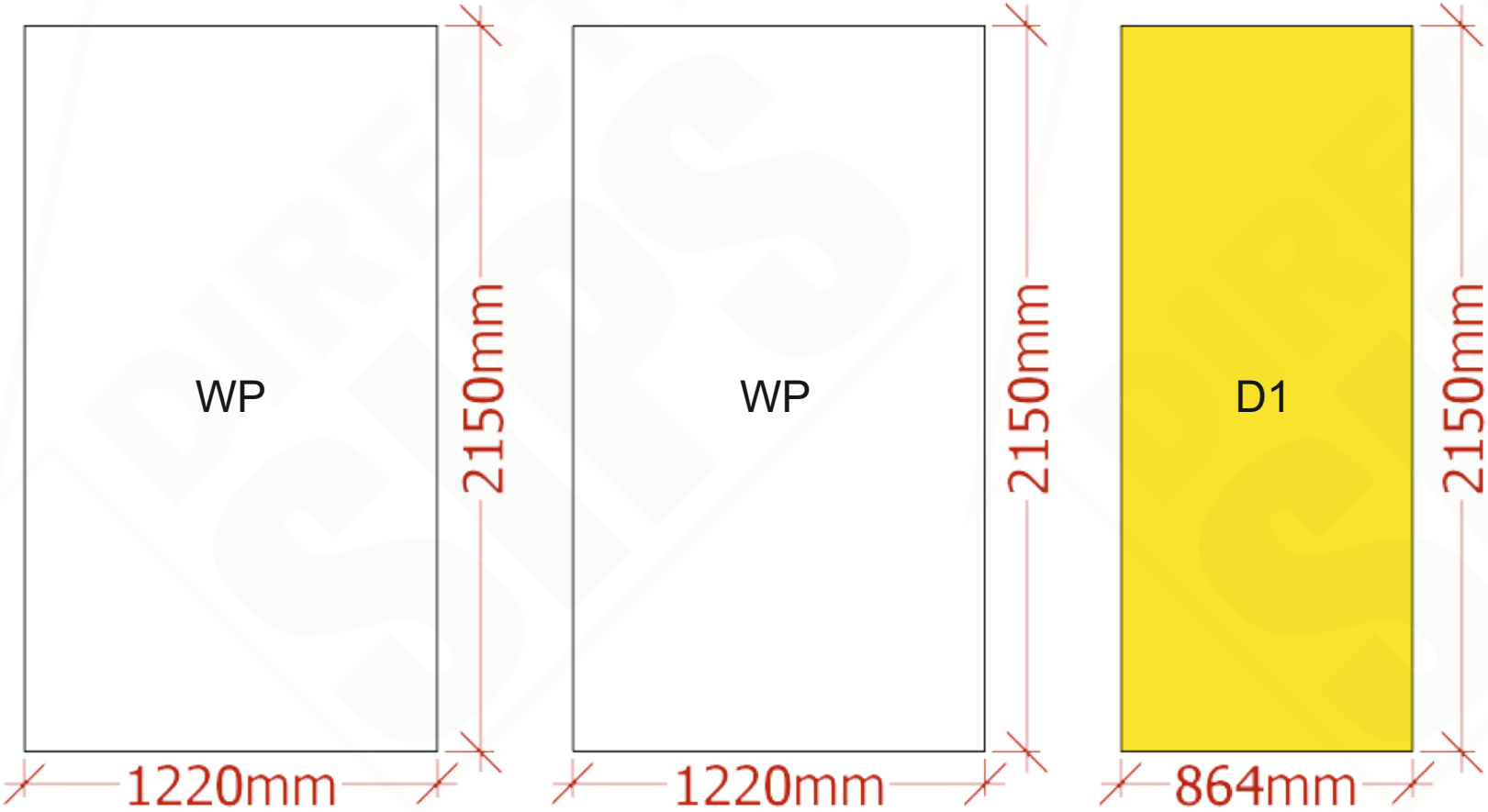


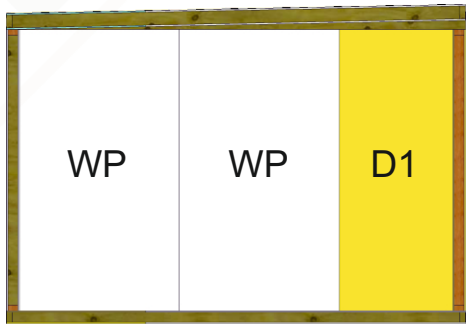
Rear Elevation

Customer Instructions	Title	Rear Elevation - C - 98mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	10 of 14

Use 40/50's to screw the panels together.

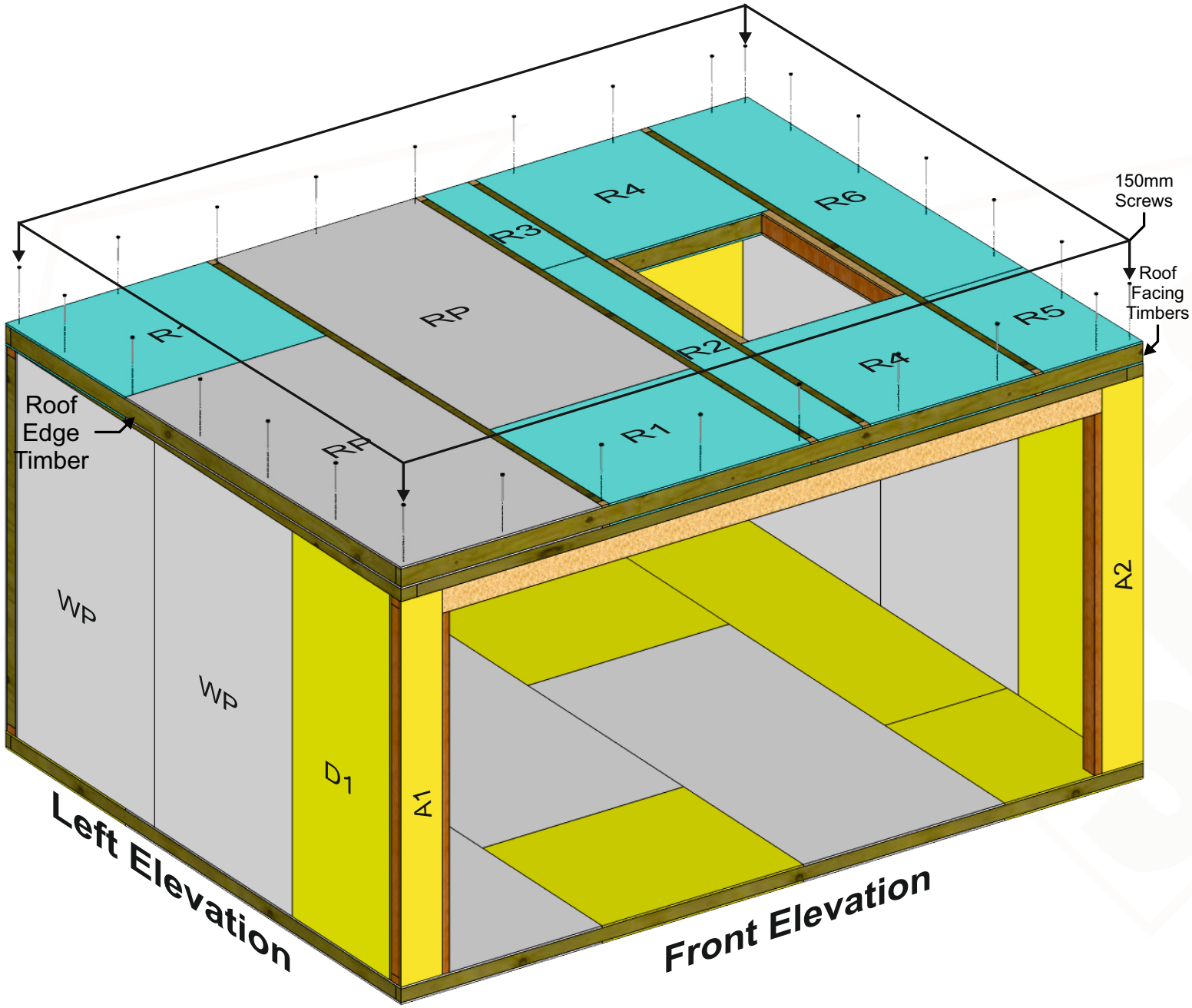






Left Elevation

Customer Instructions	Title	Left Elevation - D - 98mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	11 of 14



This page is showing the roof edge and the firring, the roof edge timber is a piece of 4x2 that sits within the Roof Sip Panel, the firring is a piece of double 4x2, this sits beneath the roof and on top of the Wall Sip panel. this creates the angle on the roof to help bring water to the bottom of the building.

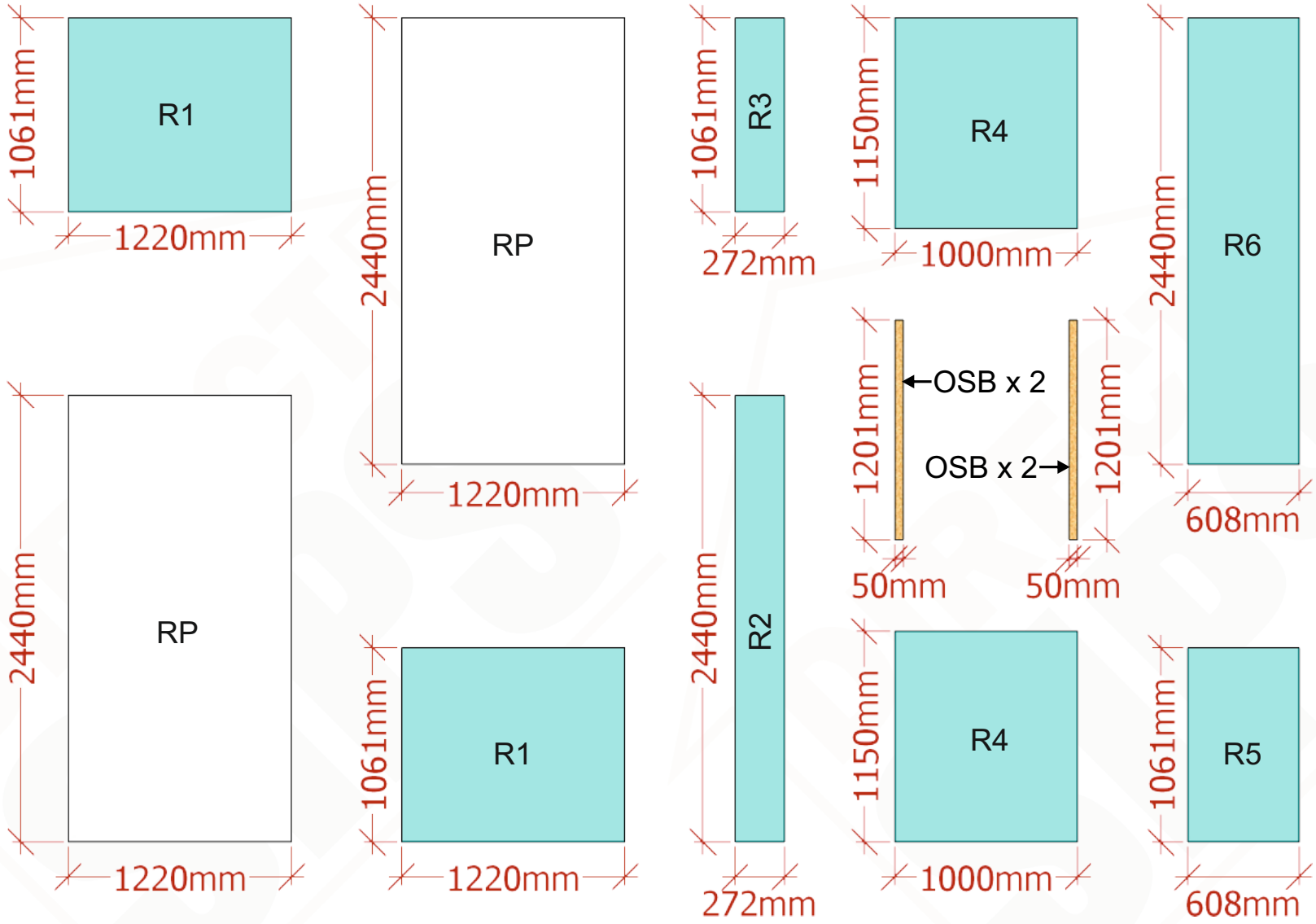
Add 150mm screws to fix perimeter of roof after roof edge timbers have been fitted.

Screws for the roof edge is 50mm.

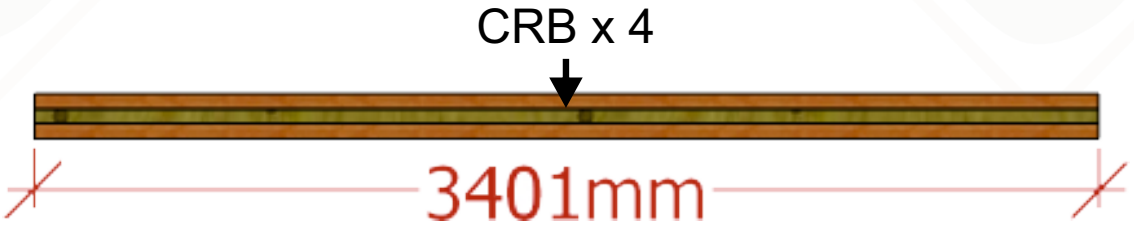
Screws for the firring is 50mm at the short end and 80mm for the top of the firing.

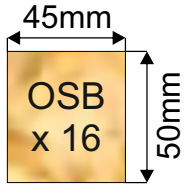
Use 150mm screws for roof facing timber on front elevation.

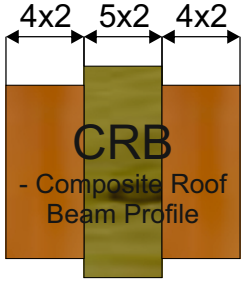
Customer Instructions	Title	Roof Edge Detail	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	12 of 14



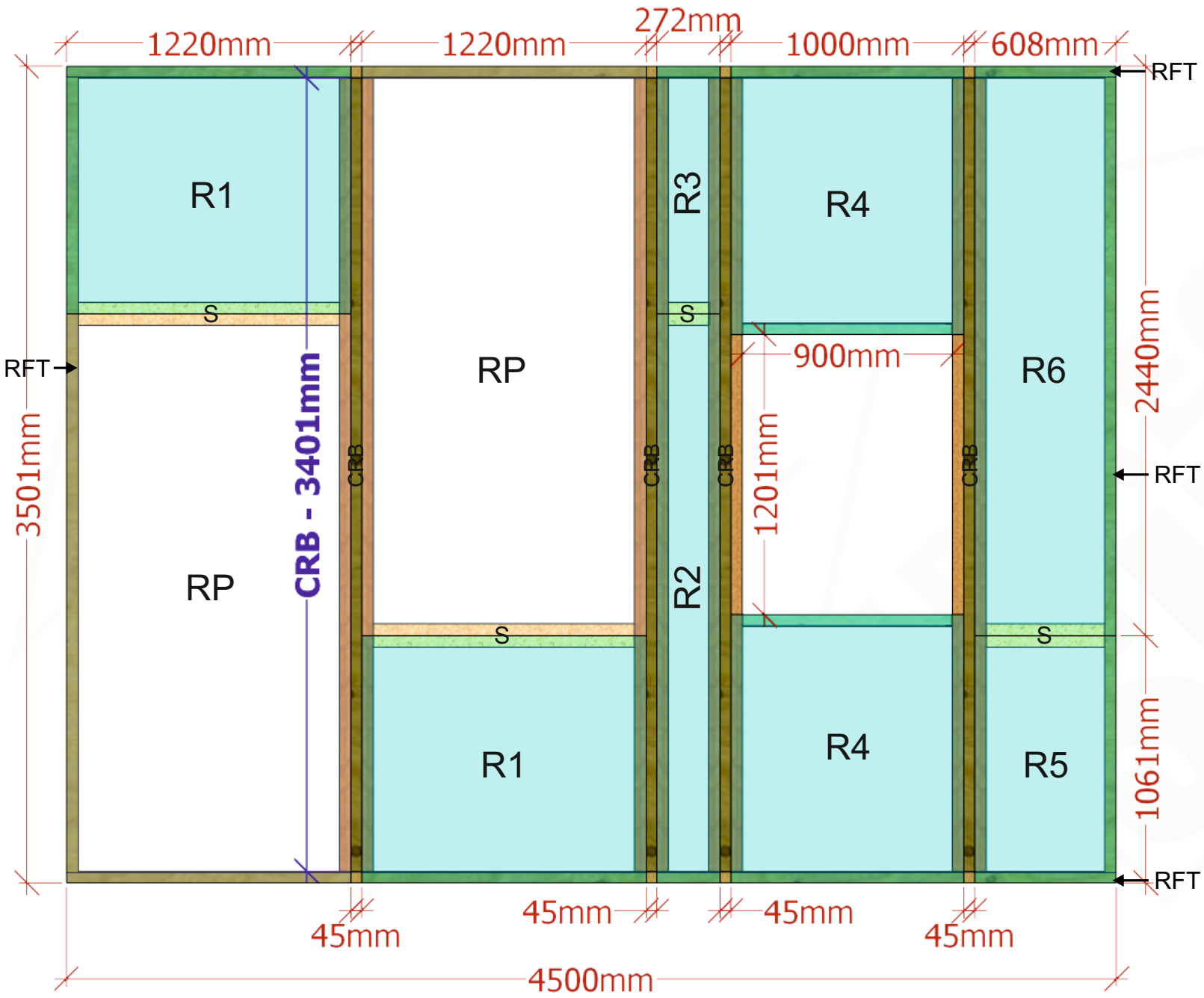
Use 40/50's to screw the panels together.







Customer Instructions	Title	Roof - 122mm	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	13 of 14

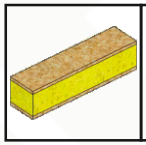


Roof beams run through the roof. Roof beams are supplied:-

- Composite Roof Beams (CRB) consisting of 5x2 with 4x2 fixed either side

4x4 roof splines (S) are used to join the panels together.

For the roof, use 50mm screws for the roof splines and roof beams, but when securing the roof down, use 160/180mm torx screws to screw down through the whole panel top to bottom.



Spline (S)

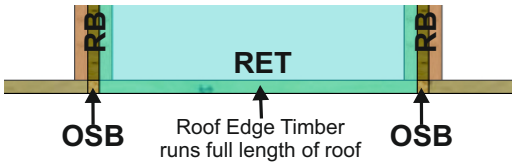


Composite Roof Beam (CRB)



4x2 Roof Edge Timber (RET)

Roof Edge View



Customer Instructions	Title	Roof Connections	Client/ Company	MH Garden Rooms - Laura - 1574	Model	Bespoke	Size	4500 x 3500	14 of 14