

Instruction pack

25/11/2010

2960x2960

NO OTHER PARTS REQUIRED

**CHECK ALL PARTS BEFORE ASSEMBLY
OR EMPLOYING TRADESPEOPLE**

Preparation of base

Treatment/care of your pine lodge

PLEASE LAY OUT PARTS AND CHECK OFF AGAINST CHECK LIST BELOW:

Parts list	See drawings for log quantities.
	These details may be repeated in the drawing sheets.

Parts list

These details may be repeated in the drawing sheets.

BUILDING ASSEMBLY PARTS

All dimensions in mm unless stated			QTY	DESCRIPTION	CODE
QTY	DESCRIPTION	CODE			
FLOOR-					
2	Pressure treated floor bearers 1520	FB1	2	Brass cranked door bolt (bagged sets)	
2	Pressure treated floor bearers 2230	FB2	1	Mortise keys (set)- Taped to door glazing bar	
7	Pressure treated floor bearers 2770	FB3	6	Door hinges	
6	OSB shaped sheets see drawings		1	Brass door lever handles (set)	
2	Skirting 25x40x2710	SK	WINDOW KITS- Taped in sets qty per set 2 sets req		
2	Skirting 25x40x1410	SK	1	Windows E-W9S - TOP HUNG	
2	Skirting 25x40x320	SK	2	Casement stays with 2 pins and screw sets	
ROOF-					
1	Roll felt 10m		2	Window hinges	
1	Roll felt 6m		2	Window frame 25x29 x1258	W A
2	Fascia boards 100x22x1760	FC	1	Window frame 25x29 x965	W B
1	Eaves (door) fascia 19x70x2240	DF	2	Window frame 25x29x 915	W T
2	Eaves (window) fascia 19x70x1650	EF	4	Window architrave 70x20x1338	W C
1	Small Diamond		2	Window architrave 90x20x1125	W D
1	Back Roof edging 44x44x2975	RE	4	Window architrave 70x20x915	W E
2	Window Roof edging 44x44x1550	RW	2	Shaped drip bar 1090	
1	Door Roof edging 44x44x1900	RD	4	Draught excluder 1204	
7	PLY + frame shaped sheets see drawings		4	Draught excluder 915	
DOOR KIT -Taped in sets			HARDWARE Glazing and beading-		
2	External double doors	E-DD5	30	Toughened glazing 268 x 273	
2	Door frame 25x29x1787	D A	60	Short Beading	
2	Door frame 25x29x1360	D B	60	Long Beading	
4	Door architrave 70x20x1737	D C	58	25mm screws	
2	Door architrave 90x20x1570	D D	162	40mm screws	
2	Door architrave 70x20x1500	D E	38	50mm screws	
1	Shaped drip bar 1540		14	60mm screws	
2	Draught excluder 1711		68	80mm screws	
2	Draught excluder 1361		128	40mm round head nails	
			30	40mm oval head nails	
			15	75mm nails	
			595	Felt nails * for felt	
			240	Panel pins	

IMPORTANT!

The only parts that require cutting are the corner top logs ,roof edgings, eaves fascia & skirting .DO NOT CUT ANYTHING ELSE



Completed Belvior or Ardcastle Roxburgh

Tools required

- Hammer
- Rubber mallet
- Spirit level
- Stepladder
- Battery-powered drill/screwdriver
- 8mm drill
- 3mm drill
- Tape measure
- Gloves
- Sharp knife and saw
- Chalk
- String
- Oil for lock

IMPORTANT:

1. Check all components before commencing with the construction of your Ardcastle
2. Keep all timber dry or your building will not fit together.
3. We also recommend that you seal the corner log joints with silicone sealant (not supplied).
4. We recommend a minimum of two people required for assembly.
5. Read through all the instructions before constructing your pine lodge.
6. You will see there is a set of lettered drawings showing each side of the building. You will find these letters printed at one end of each log or in the slot.

PLEASE NOTE

Wood is a natural product and is therefore prone to changes in appearance, including some warping, movement and splitting, particularly during unusual climatic conditions (long hot or wet spells of weather). As a natural occurrence this is not covered by a guarantee

Assembly –please read instructions and check all parts prior to assembly

IMPORTANT SAFETY INFORMATION

- We recommend the wearing of non-slip protective gloves throughout the assembly process. We also recommend the wearing of steel capped protective shoes, protective head gear, safety glasses and full length clothing. If step ladders are to be used we recommend one person holds the ladder whilst the other is using them. If necessary a third person should be used. Do not attempt to erect the building in windy conditions. Follow any safety precautions quoted by the manufacturer for any equipment you use.
- Every precaution has been taken to ensure that your building has no element incorrectly placed or possibly hazardous. However prior to use please check for raised grain or splinters and sand if necessary. Check that all elements are secure against reasonable force.

A Window Frame

1. Refer to the window drawing page and to letter codes in contents table. The WT and WD parts will be at the top of the window frame. Do not tighten the inside of the frames so you can remove for treatment.
2. To be sure you can lay all the pieces, including inserts together without fixing to familiarise yourself with the assembly.
3. Make sure the window insert fits inside the frame with a 5mm gap all around.
4. Lay out the parts WA and WB and WT as in the inner frame assembly drawing. The narrowest (25mm) edge to the work bench and the side the size is the same as the log thickness as shown in fig A1. Part WT must be inside parts
5. WA and part WB underneath the two WA parts (Fig A1).
6. Pre drill 2 3mm holes at one end of the WA only and at both ends of the WB parts (see drawing) and screw together at each corner, 10mm in from the edge (ensuring each corner is flush) with 2x50mm screw (fig A1).

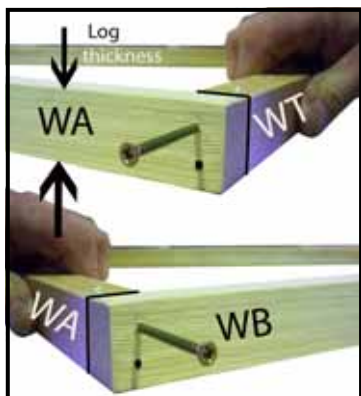


Fig A1

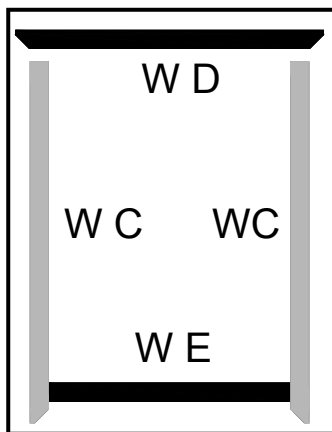


Fig A2

7. Layout parts WC, WD & WE as in fig A2 & drawing on top of the frame from steps 1-6 flush with the inner edge of the frame.



Fig A3

8. Mark the first hole position 30mm from the end of part WC that is next to part WD, at the other end mark the hole central to the WB underneath and then the rest at approximately 260mm centres between these holes.
9. Note the WC, WD & WE pieces fitted to the opposite side must be drilled offset to this side to ensure the screws miss each other.
10. Place the other WC part underneath and drill through both pieces with a 3mm drill (fig A3).



Fig A4

11. Place one of the WC parts on top of the WA parts level with the inside of the frame and the bottom of the WT part (fig A4).
12. Fix to part WC to WA with 40mm screws (fig A5 & A6)
13. **important** fix at both ends first ensuring that they stay flush then the screws in between again ensuring that parts WA & WC are flush as you go

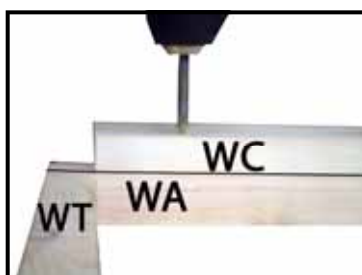


Fig A5

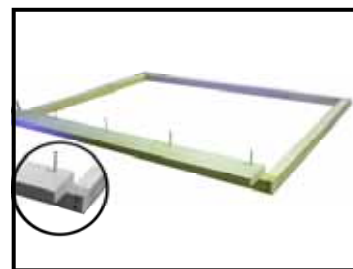


Fig A6

14. Place a WD part on top of a WB part. The WD part is positioned so there is an even overhang (fig A7). Mark out and drill fix as steps 8 to 10. But start at 100mm from the end of part WD.



Fig A7

15. Drill (not too deep) and screw in each corner with 40mm screws (fig A8).



Fig A8

16. With a pencil mark the screw centres on the inside long edge of the frame to help ensure the hinge screws will miss these screws.
17. Turn frame over and repeat steps 4 to 12 on the other side (fig A9 & A10).
18. **Note offset drilled holes from first side to ensure they miss each other first hole part WC =30mm part WD =100mm**

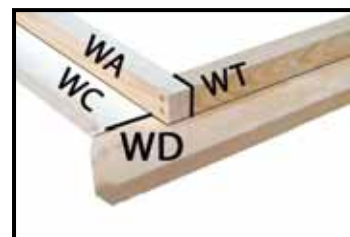


Fig A9



Fig A10

19. **Window insert.** Place one hinge on the inner rebate part of the window; approx. One hinge width along from the rebate edge on the top side. The rounded part of the hinge should sit above the outer edge of the window. Screw the inner piece into position

20. (fig. A11 & A12) using the pre drilled holes in the hinge and 3 x 25mm screws. Repeat with the other hinge. And close the hinges together.

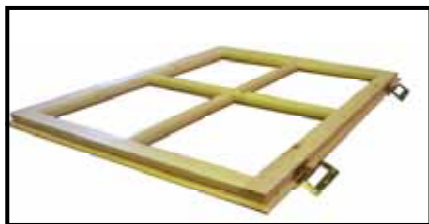


Fig A11– STYLE MAY VARY

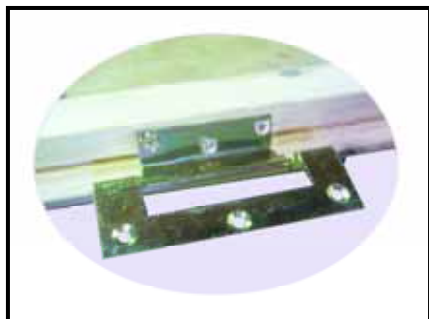


Fig A12

22. Place the window into the aperture (fig A13) **ensure that part WD** (FIG A13) is against the hinges (TOP HUNG) or against the WC (side hung) .
23. Secure the window to the panel using 3x 25mm screws per hinge, (fig. A14) again through the predrilled holes in the hinge.
24. Repeat.



Fig A13



Fig A14

24. Open the window fully in order to fit a further 2x 25mm screws per hinge (Fig.A15).

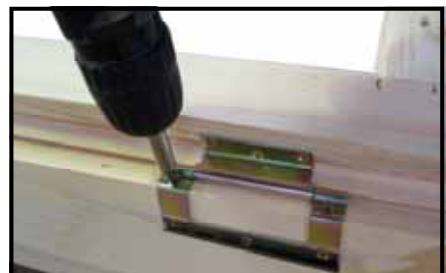


Fig A15

- 25. Fitting the draught excluder.**
This must be done before fitting the casement stays.



Fig A16

26. Lay the assembled window unit with the opening insert downwards onto your work surface (Fig A16).
27. Position the draught strips so the rubber is against the opening insert and fix with 4x25mm oval nails per strip (Fig A16).
28. **Fitting the Casement Stays.** There are two per window. Place the casement stays evenly on the inside of the window (Fig A17) on top of the draught excluder.
29. Place the 2 pins under each casement stay. Position so that it is not resting on the window frame and not so high that the pins are of no use.



Fig A17

30. Fit the Casement Stay (fig A18) on the window using 2x 25mm screws.



Fig A18

31. Mark where the 'pins' will be placed.



Fig A19

32. Secure into position using 4x 25mm screws - 2 in each pin.
33. **Drip bar.** Turn the window unit over so the opening insert is uppermost .



Fig A20

34. Position the drip bar he drip bar by measuring 45mm down from the top of the WD part above the hinges and fix the drip bar with 3x25mm screws. Repeat with the other window unit Put the completed units to one side until required .
36. **Note** do not glaze until all parts have been treated and the units fitted in the building

B Door Frame

1. Refer to letter codes in the contents table and also use the doors as a gauge to ensure correct assembly (assembly similar to but not the same as the windows). **SEE LARGE DRAWINGS. Do not tighten the inside of the frames so you can remove for treatment and fixing logs.**
2. Lay out the parts **DA** and **DB** as in fig 27. The 25mm edge to the work surface

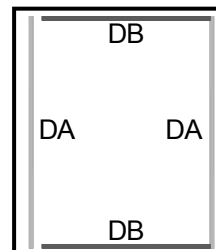


Fig 27

3. Parts **DB** must be inside parts **DA**

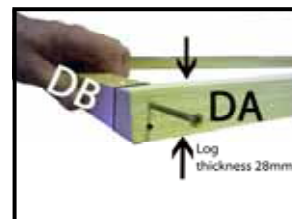


Fig 28

4. Drill both ends of the **DA** and screw together at each corner, 10mm in from the edge (ensuring each corner is flush) with 2x50mm screws (fig 28).

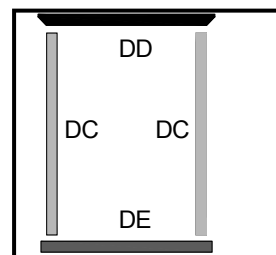


Fig 29

5. Layout parts **DC**, **DD** & **DE** as in fig 29 .
6. Mark the first hole position 30mm from each end of part **DC** and then the rest at approximately 200mm centres.
7. **Note** the **DC**, **DD** & **DE** pieces fitted to the opposite side must be drilled offset to this side to ensure the screws miss each other.



Fig 30

8. Place the other **DC** part underneath and drill through both pieces with a 3mm drill (fig 30)



Fig 31

9. Place one of the **DC** parts on top of the **DA** parts level with the inside of the frame (fig 31)

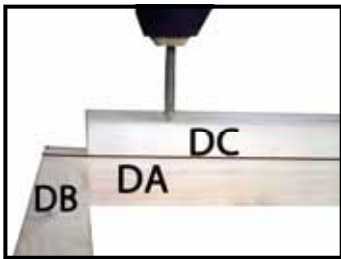


Fig 32

10. Fix to part **DC** to **DA** with 40mm screws (fig 32 & 33) **important** fix at both ends first ensuring that they stay flush then the screws in between again ensuring that parts **DA** & **DC** are flush as you go.



Fig 33

11. Place a **DD** part on top of a **DB** part. the **DD** part is positioned so there is an even overhang (fig 33). Mark out and drill fix as steps 8 to 10. **But** start at 100mm from the end of part **DD**.



Fig 34

12. Drill (not too deep) and screw in each corner with 40mm screws (fig 35).



Fig 35

13. With a pencil mark the screw centres on the inside long edge of the frame to help ensure the door hinge screws will miss these screws.
14. Turn frame over and repeat steps 5 to 13 on the other side
15. **Note offset drilled holes from first side to ensure they miss each other first hole part DC=40mm part DD =110mm**

C Fit Doors

1. Lay doors on the floor, as you would view them from the inside of the building. Make sure the door with the lock is situated on the left when viewed from the bottom.
2. Lay the outer frame in position (fig 37).
3. The hinges are fitted on the longest outside edge of the doors.
4. Make a visual judgement to the gap top and

bottom of the doors then transfer the screw centre marks (step B 13) to the doors. This is to ensure the hinge screws miss the frame screws.

5. Lift off the outer frame making note of which way around you have put it.
12. Place the hinges as shown in fig 36 Screw the inner piece of the hinge to the door with 2 x 25mm screws.



Fig 36

7. Close the hinges and lay the frame assembly over the doors (fig 37).



Fig 37

8. Make a visual judgement to set an even gap top/bottom of the doors and secure each hinge with 1x25mm screws (fig 38). **Ensure the hinges are tight against the face of the doorframe.**



Fig 38

9. Stand the assembly up. Note two people needed for this step. Open the doors and secure hinges with remaining 4x25mm screws per hinge.
10. Lay the assembly down again with the doors facing down and fix the draught excluder as with the windows using 9x35mm oval nails for either side and 9x35mm oval nails each top and bottom. Take note of where you are going to put the door bolts (step 12).
11. **Drip bar** .Turn the unit over and measure down 45mm and position and fix with 6x25mm screws as previously done with the window unit.



Fig 39

12. Fit two bolts on the door without the lock (fig 39). The top bolt should be positioned just below the draught excluder. Fix with 4 screws supplied.
13. Extend the bolt to meet the frame with the cranked part as far from the edge as you can and mark then drill a 10mm hole (**into , not through the frame**) to take the bolt.
14. Align the catch plate and fix with 4 screws supplied
15. Put the door assembly to one side until required.

D Setting out

1. It is extremely important that you read the instructions carefully and familiarise yourself with all the components before continuing with the build.
2. The plan drawing (page 1) and fig 40 shows the building positioned in a right hand corner with the gable end to the right.

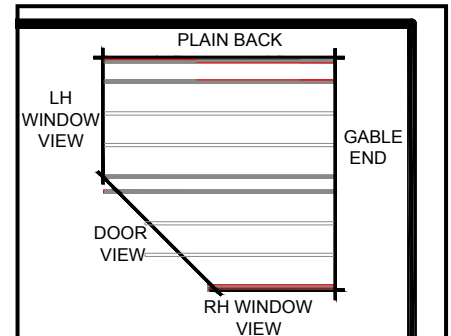


Fig 40

3. If you wish to place the building in a left hand corner then you must rotate the whole building so the plain back is to the left hand side (fig 41)

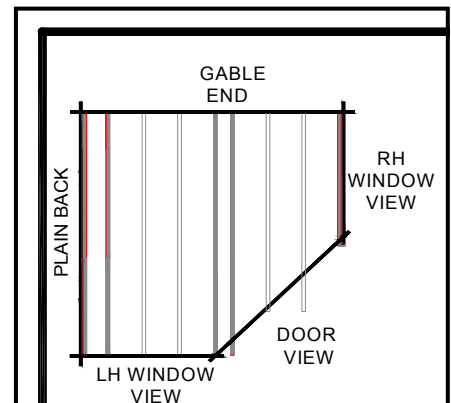


Fig 41

4. The logs are always fitted with the tongues upwards.
5. All the drawings are viewed from the outside looking inwards.
6. **Keep all parts clean and dry whilst working as any contamination before treatment is hard to remove !**



Fig 42

7. Lay out all the logs around the build area (fig 42) in piles as you need to assemble them, for example on the RH. window view you will stack the logs as follows :-

4 Logs H
1 Log H1
12 Logs F 12 Logs C
1 Log H

E Floor Bearers & first logs

See drawing pages

Use the following instructions and the drawing pages to assemble your building.

1. The outermost bearers are two bearers that sit side by side. Take two of the longest bearers (2XFB3) and nail them together 10 x 75mm nails (fig 43).
2. Repeat with the two shortest bearers (2 X FB1) using 5 x 75mm nails.
3. **Do not nail near one end** on the shorter pair as this needs to be trimmed –step **E 20 ONWARDS**



Fig 43

4. **To Help familiarise you with the layout-** Roughly place the bearers into position (spacing not important at this stage) and **ROUGHLY** place the half logs A1, B1 and E1 into position. Next place the first full logs –**just rest them in position- DO NOT TAP HOME -(fig 44).**



Fig 44

5. Once you are happy that you are familiar the layout then proceed with the assembly.
6. **TIP** as you disassemble the logs in the next steps, place a visible mark in each outside viewed LH notch to help with orientation.



Fig 45

7. Take the A1 half height log (drawing page 6, GABLE END) and mark the floor bearer centres less than 20mm long (these marks will be inside the building behind the skirting) along the bottom edge of the log as shown in the drawing, but not the two pairs of outer bearers, from one end (fig 45) keeping note of its orientation (step 6 mark downwards on the work surface and to the left)



Fig 46

8. Place the 'B1' log against the A1 log (bottom edge to bottom edge) (step 6 mark downwards on the work surface and to the opposite end of the mark on the first log) and transfer all the lines across (fig 46).
9. Repeat step 7 **only** with the E1 (Door view page 2)
10. The bearers stand with the narrowest edge to the floor (fig 47 & 48) and their end level with the A1 log faces.



Fig 47

11. Assemble the first row of logs on top of the bearers by placing the half height logs in position and then the first of the logs from each wall that run parallel to the bearers on top of them **EXCEPT log F door view.** (See section F4 for tapping down instructions).

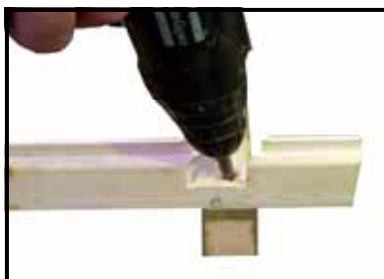


Fig 48

12. Centrally align the bearer that goes under the angled notch on log B1 **lh window view**, drill through the log only in the centre of the notch and fix with 1x60mm screw (fig 48) ensure that the screw is flush with the surface. Position the log **F door view** on top of this joint and tap home as before.
13. **NOTE** the shortest pair and the two mid length bearers **WILL REQUIRE TRIMMING DO NOT TRIM OR FIX DOWN** until instructed to do so.
14. Position both pairs of outer bearers (step E1 & E2) so they sit level with the outer face of the half log (fig 49) and 5mm in on the side logs.
15. Mark the centre of the bearer on each half log as before.



Fig 49

16. Line all the remaining bearers with their centre marks, central to their angled notch or central to the end of the E1 & F logs.

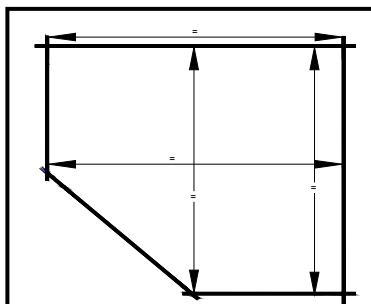


Fig 49

17. Measure along the parallel walls (fig 49) and between each bearer to **ensure everything is square and true.**
18. The position of the shaded bearers (drawing page 1) are critical. As you can see the edge of the OSB sheets (only sheet FC is shown on page 1 for clarity) rest on the centre of one of the bearers (**note there may be a gap of up to 6mm around floor edge –under the skirting**). Use one of the FC and FA Pieces to check that the bearer is correctly positioned.
19. Once you are happy with all the positions cut notches out of the tongues on the half logs (fig 50 & 51) at centre marks (previous steps) and drill through for fixing to the bearers. The notch on the E1 log should go out the end of the log (fig 54).
20. **Important** Re measure as in step 16, as building must be square before fixing logs A1 & B1 to the joists with 1x 8mm screw (fig 50, 51 & 52) at each bearer at each end **DO NOT fix at log E1 or the BEARERS THAT NEED TRIMMING YET**.
21. Keep checking that everything is square as you go (step E 17)

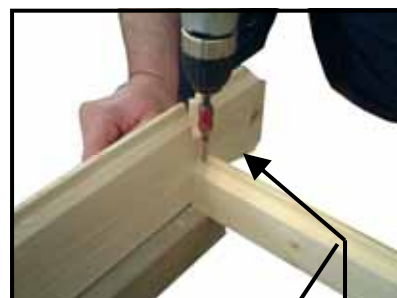


Fig 50



Fig 51



Fig 52

22. Position the short double bearers and mark the length on the outside face of the E1 log (fig 53), slide the next log along to support the logs so you can remove them and trim to length.



Fig 53

23. Re position this pair of bearers, check again that everything is square and fix as before.
24. Re position the bearer that you moved mark along the face of the E1 log as before on the remaining bearers and remove and trim to length.
25. Re position the bearers and check that all is square (see next step for bearer at E1 & F log join) and fix as before.



Fig 54

26. **E1 & F log join** . This requires two 80mm screws. The first one into the bearer should be just below the surface so you have enough room to screw the second screw at an angle (fig 54) through log E1 into log F.
27. Check again that everything true and square and that the bearers are in the correct position for the floor sheets to fit.
28. This is now ready for the walls to be built upon.

F Walls

See drawing pages & section D

1. You should have already set out the logs on each side of the building as described in section D
2. The walls can now be assembled as per drawing pages.
3. Start building walls by placing all the logs from That go on top of the half logs and then the logs that go in the opposite direction.
4. Each log needs to be tapped home to log below using timber block supplied and a rubber mallet (fig 55).

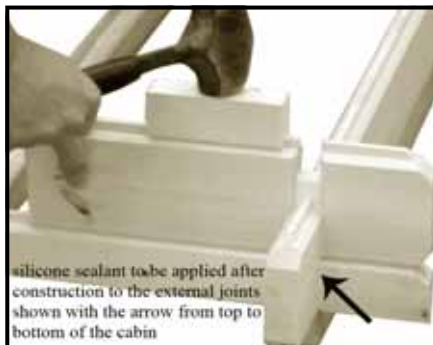


Fig 55

5. **IMPORTANT!** Make sure you fit the door frame after a couple of layers of logs and keep count of the layers to ensure the windows are fitted at the correct height.

G Inserting windows and doors

UNDER NO CIRCUMSTANCES MUST THE DOOR OR WINDOW FRAMES BE NAILED TO THE LOGS .The logs must be free to move within the frame lots to allow for expansion and contraction. AS SOON AS YOU FIT DOOR UNIT FIT HANDLES AND UNLOCK DOOR

1. Do not fit glass until after treatment.
2. Door unit must be placed into position after the first two layers of full logs have been assembled
3. Slide unit into aperture from above (Fig 56 & 57) ensuring unit is completely down and in position.



Fig 56 EXAMPLE



Fig 57

4. Window units are fitted (fig 58) when you have built up to the correct height



Fig 58 example

5. **Note Door and window units do not require fixing to the logs**
6. Once the door and window units are in place continue assembling the walls as before but slide the logs into the door or window frame (fig 59) from above then tap them down.



Fig 59

7. Continue building until you get to the height where the gable starts. **Do not fix the E2 YET.**



Fig 60

8. Drill through the E3 log and screw into the E log with 2x 80mm screws (fig 60) **not within 20mm of the join** (see next step).**Do not fix the E2 YET.**



Fig 61

9. Make sure that the top face of the E3 log is level with the bottom of the F log tongue (fig 61 inset).
10. Drill through the E3 log at an angle (fig 61) and screw into the F log with 1 x 80mm screw.
11. When you remove the door frame to paint ,drill upwards through the E2 log and fix with 2x 80mm screws. (see drawing page 2)

H Gable

See drawing page 6

1. Assemble the gable as with the walls.
2. Once gables are in place knock down all the walls again as in fig 11 to ensure all the walls are fully home
3. Fix the gable with 1x80mm screw at each end (fig 62.) and as shown on drawing page 6



Fig 62

I Roof Sheets

SEE DRAWING SHEET 7

1. The roof panels are fitted in the order they are numbered on the drawing .
2. Each panel will be numbered .



Fig 62

3. The gable has a w shaped cut out in it .Position panels 1 & 2 over the gable so the framework rests into the W shaped slot (fig 64) and a cut out in the framework to clear the gable (fig 62).



Fig 63

4. Ensure that both panels are flush with each other drill through one panel only at the ridge (high point) keeping the panels tight together fix with 2x60mm screws (fig 63).



Fig 64

5. Outside of building -Measure 95mm (level with the return at the bottom- the return is the part of the log joint that sticks out of the building) and all the way up to the ridge (fig 64) to ensure everything is square and fix with 1x 60mm screw per panel (fig 65)



Fig 65

6. From above, measure 109mm from the edge of the roof panel mark and fix the roof panel to the gable with 3x60mm screws per panel.



Fig 66

7. The bottom of the panels framework should sit snug against the side walls. (fig 67)



Fig 67



Fig 68

8. From the outside drill through the log and fix with 1 x 60mm screw (fig 68)
9. Place the back roof panel 3 next to the panels already fitted, pre drill and fix with 3x80mm screws **ensuring that the panels are flush and true to each other and the walls** (fig 68).



Fig 69

10. You will need to mark the roof line on the top log returns (corners that stick out, fig 70 & 71) at the corners of the door walls before fitting each of the remaining roof panels **except panel 4**.
11. The amount you trim need not be exact as it is not structural and is hidden behind the fascias.
12. You can always take less off, try the position and then trim or plane some more if needed.



Fig 70

13. To get the roof line on the return place the other roof panel 3 upside down overlapping roof panel 1 (you will need help to support the panel) and slide it up to the return.

14. Mark its position with a pencil and use a knocking block straight edge (fig 70) to continue the guide line and then saw off the excess (fig 71).



Fig 71

15. Position panel 3 as before **ensuring that the panels are flush and true to each other and the walls** pre drill and fix with 3x80mm screws to panel 2 and 2x60mm at the ridge as in step 4.
16. Position panel 4 as before **ensuring that the panels are flush and true to each other and the walls** (fig 72), the frame work must fit snugly next to the corner and fix with 3x80mm screws.



Fig 72

17. Position panel 5 upside down and mark the return and trim as before.

Position panel 5 the correct way up **ensuring that the panels are flush and true to each other and the walls** (fig 73), the framework should sit in the corner and fix with 4x80mm screws. Angle the top screw as shown.



Fig 73

18. Repeat the previous steps with panels 6&7 fix with 3x80mmscrews at each join.

J Roof Edgings

1. Fix the 44mmx44mm roof edging (fig 74) as shown with 4x40mm screws per edging, long back edging 6x40mm. **Note** there will be gaps between the edgings at this stage that will be covered later.



Fig 74

K 1 Felt roof option (see K2 for tiles)

1. There are two rolls of felt supplied. 1@10m and 1@6m. A clean hard patio or driveway is best to work on and you can use chalk to mark the felt.
2. Thoroughly read the steps here and refer to drawing page 8 (felt cutting sizes) to familiarise yourself with the cutting and fitting of the felt.



Fig 75

3. Start with the 10m roll first. Mark the piece labelled Bottom above window (at this stage just cut a rectangle 163cm long) with chalk or make a small nick with your knife. Use a piece of wood or something straight as a guide place it on the marks, re check your measurements and cut alongside your piece of wood (fig 75), and put it to one side to use later.
4. Next mark the piece labelled bottom front, measure 156cm at each edge and cut as above.



Fig 77

5. Starting at the lower edge (eaves) on the building side place the piece of the felt from left to right of the building (fig 77) folding the lower edge level with the bottom of the roof panel framework (fig 78).



Fig 78

6. Position the edge of the felt against the edge of the roof panel against the door, (a small gap is okay as these joins will be covered with a felt strip later (step 24)).
7. Fold the remaining felt excess over other edge. This overhang will be covered by the roof edging (fig 16) then secure with felt nails at approximately 100mm spacing. But only a couple along the high edge and none down the edges of the adjoining panels at this time (nailed with overlap or covered with a strip later).
8. Using the same method as before mark and cut out the bottom back piece of felt.
9. This is positioned (fig 79) on the back roof panels and aligned as before, folding the lower edge onto the framework and over the gable end.
10. Nail down as in step 7.

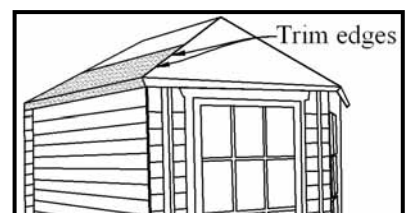


Fig 79

11. Trim off any excess that hangs over the edge next to the window roof panel (fig 79), again this edge will be covered later with a felt strip.



Fig 80

12. This step uses the piece of felt (bottom above window) that you cut in step 1 (fig 80). Align the bottom edge so it will fold over the frame work as before and one edge against the door roof panel edge and fix as before.



Fig 81

13. Fold the excess over the edge and trim off (fig 81), again this edge will be covered later with a felt strip. **Keep the piece you cut off for the top above the doors.**

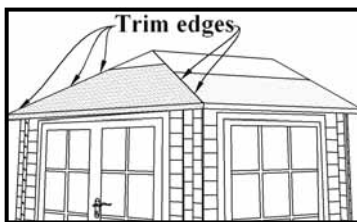


Fig 82

14. Next cut the piece bottom above the doors from the 10m roll of felt. **Cut this piece square as shown.**
15. Align the felt along the bottom edge (fig 82) as before , the top edge will be higher but this does not matter as it will be covered. Trim off the excess and fix as before keeping the off cut for above the doors.
16. Next cut the top front piece and put it to one side.
17. Next cut the top back piece from the 6m roll of felt.
18. Use your chalk and mark 100mm down from the top of the bottom back piece of felt at both ends and repeat on the front and above window pieces.

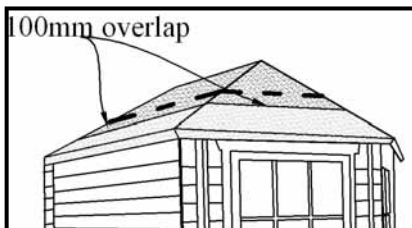


Fig 83

19. Position the top back piece of felt(fig 83) overlapping the ridge (high point) , level with the window roof panel , over the gable end and overlap the lower sheet level with your chalk marks from step 18.
20. Fix with a couple of felt nails on the other side top of the roof and at 100 mm spacing along the bottom.
21. Repeat with the piece above the window (fig 83) using the off cut from before trimming and fixing as before.

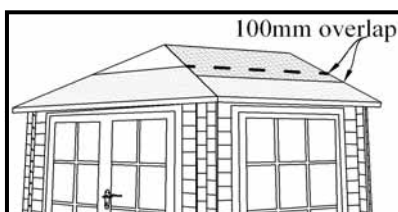


Fig 84

22. Next align and fit the front top piece (fig 84) as before



fig85

23. Repeat with the piece above the doors (fig 85) using the off cut from before align the bottom edge with the pieces either side trimming and fixing as before.
24. Next cut the three strips 20 cm wide to the lengths shown. The longest one fixes at the back corner ,the next longest at the corner to the left of the doors and the other at the front . Fix with felt nails at 100mm spacing down either edge (fig 86) leave the excess at the bottom so you can trim and nail in place (fig 86 inset).



Fig 86

25. Finally you need to cut a circle for a capping piece . Find a scrap piece of wood and screw 2 screws into it at 30cm apart .place another scrap piece under the screw and felt where centre is to act as an anchor. (fig 87)



Fig 87

26. The other screw should be through the scrap piece of wood far enough to score the felt circle when you push down and turn the wood about the centre.
27. Remove your scouring tool and use your knife to finish cutting the circle. Also cut as slot from the centre hole to the outside so you are able to make a cone shape.
28. Place the circle onto the roof where the panels meet with the slot at the back so you cannot see it and fix with felt nails at 100 mm centres (fig 88)



Fig 88

L Fascia & Diamond

1. Fascia boards (FC) now be drilled and screwed (fig 90) with 3x 50mm screw at each roof panel and 1x 50mm screw at the roof edgings.



Fig 90

2. Drill diamond and screw with 2x50mm screws . (fig 91)

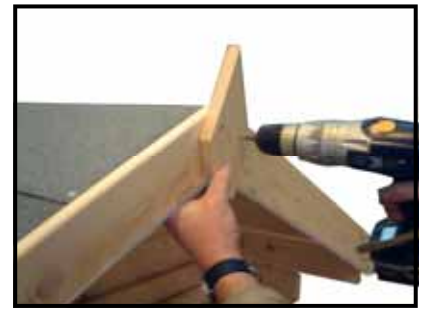


Fig 91

3. Fix the eaves fascias over the doors first (DF) . Even out the side overhang and fix with 4x40mm screws . (fig 92)



Fig 92

4. Next place one of the window fascias WF(one is longer than the other so measure and check which is which) behind the door fascia use a small block to mark the angle of the front fascia on the end of it and trim then fix with 3x40mm screws .
5. Repeat with the other fascia.
6. The plain back has no fascia.

K-21 Tile roof option (see K2 for felt)

1. Packs of shaped tiles and strips rectangular tiles for the eaves and ridge have been supplied. (SEE CONTENTS)
2. Use tiles randomly from the packs of tiles supplied to even out the colour match.
3. **remove all dust and sharp edges from the roof boards.**

Read the entire section before starting.



Fig H1

5. Measure the length of the roof (fig H1) and mark the centre of the roof and repeat the other side .

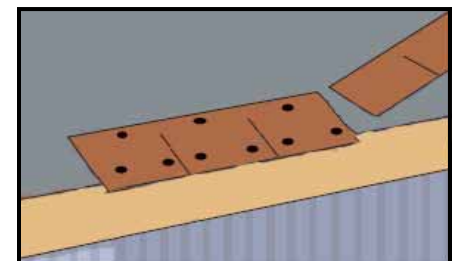


Fig H2

6. Lay out the row of ridge and eaves strips and shaped tiles and adjust the position of the tiles to get the least waste possible and if you can the piece that you trim off can be used at the other end.
7. Place the first ridge strip so it is central to the mark (or your adjusted position) and over hanging the roof edging by 10mm.

8. Measure the distance the tile is up the roof and mark it at either end of the roof. Tack the string at the marks at either end to use as a guide to keep the tiles level. (use this method to keep all your tiles square.
9. **Remove the backing film** and fit the row of eaves tiles. Nail the centre of each individual tile 1 cm down from the edge with one felt nail. (fig H2) and 2 nails at the bottom where they will be covered by the next tile layer.

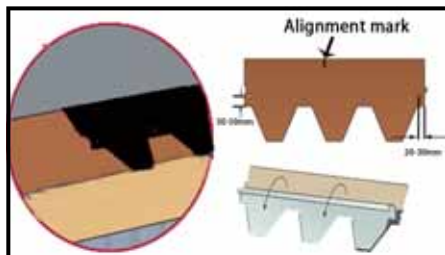


Fig H3

10. The installation of roofing shingles is usually started from the middle of the slope, so that the tabs of the shingles cover the end joints and perforations of the eaves shingles.
11. The lower edge of the first row of shaped shingles is aligned with the bottom edge of the eaves shingles, so that the line of the eave appears clean and straight when seen at an upward angle from the ground. The roofing shingles are fixed with roofing nails (4 pieces / shingle) as shown in the figures above, some 30 mm above the bottom of each notch along their centre lines. **DO NOT REMOVE BACKING**
12. The shingles will bond to one another, but they are nailed to the roof.

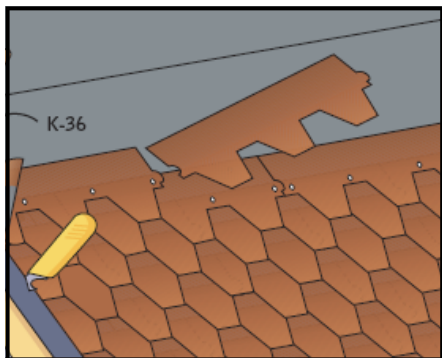


Fig H4

14. Use a sharp knife to trim the tiles level with the end of the roof. You should be able to use the waste piece on the other end of the roof.

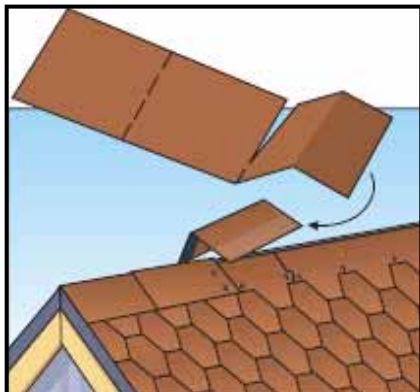


Fig H5

15. On the ridge, the topmost shingles are cut along the ridge line (not folded over the ridge!)(fig H5).

16. By folding and tearing an eaves shingle as shown above (fig H5) you will have three ridge capping shingles.
17. On a pitched roof, installation is started from either end so that the adhesive edge of the first ridge capping shingle is aligned along the verge, on top of the roofing shingles. The ridge capping shingle is nailed to the decking from the non-adhesive edge with four nails (two either side of the ridge).
18. Ridge capping shingles are laid centrally on the ridge in such a way that the adhesive strip on the underside **overlaps** the previous sheet by some **50 mm** covering the nail heads. The procedure is repeated along the length of the ridge.

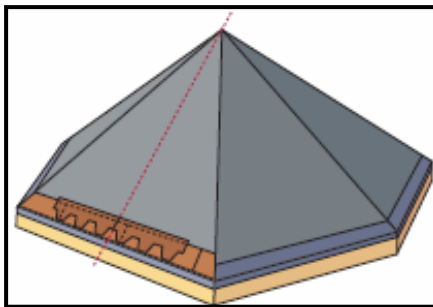


Fig H6

19. Hexagonal roofs (barbecue shelters, conical huts etc.)With KL, Jazzy and Katrilli shingles it is practical to mark out the centre line for each triangular section from the eave to the ridge point. The centre butt joint of first shingle row should be in line with the centre marking line. Thereafter the centre butt joint of every second row should be in line with the marking line. In this way, the pattern will be identical on all triangular sections.
20. The roof is covered one triangular section at a time, in a way similar to the roofing of the
21. hipped ends of hipped roofs. Ridge capping shingles are installed over the hips.

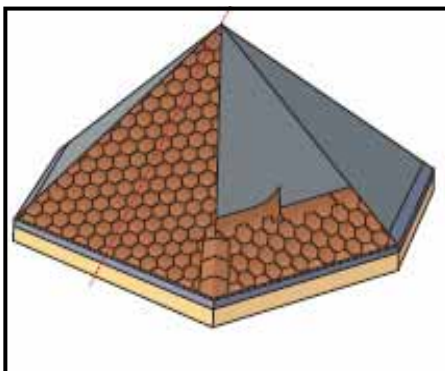


Fig H7

M Floor & Skirting

See drawing pages 1 & 1a

IMPORTANT NOTES

1. Do not stand on untreated panels as dirt may be hard to remove.
2. There may be an expansion gap (up to 6mm) left between the OSB floor sheets and the walls.
3. It may also be necessary to slightly trim the panels to get the best fit.
4. Before fixing it is recommended that you lay the sheets into position to familiarise yourself with the layout.
5. The floor is fitted working from the corner sheet **FA** Make sure that the sheet is positioned centrally on the joist where it butts up to sheet **FC**

6. Mark the joist centres on the edge of floor sheet. Fix with 40mm nails at 4 per joist. You can use a piece of skirting as a guide to keep the nails in line (fig 93)



Fig 93

8. Slide the edge sheet **FB** under the doorframe (fig 94). Align it as before and fix with 40mm nails at 4per joist.



Fig 94

9. Position and fix the remaining floor sheets (**FC** x2, **FD** and then **FE**) in order as before.
10. Lay out all the skirting boards (SK) around the walls and Cut to suit and fix with 40mm oval nails at approx 400mm centres (fig 94)



Fig 95 example

N Glazing

After painting

1. NOTE ensure that you have treated the beading and the rebate where the glass fits before fixing the glazing.
2. Place glazing material into the aperture of each window.
3. Hold into position with four pieces of beading. The beading may need to be swapped around to get the best fit. When satisfied secure into position using 2x15mm panel pins per piece of beading. (fig 96) Repeat for all window and door apertures.

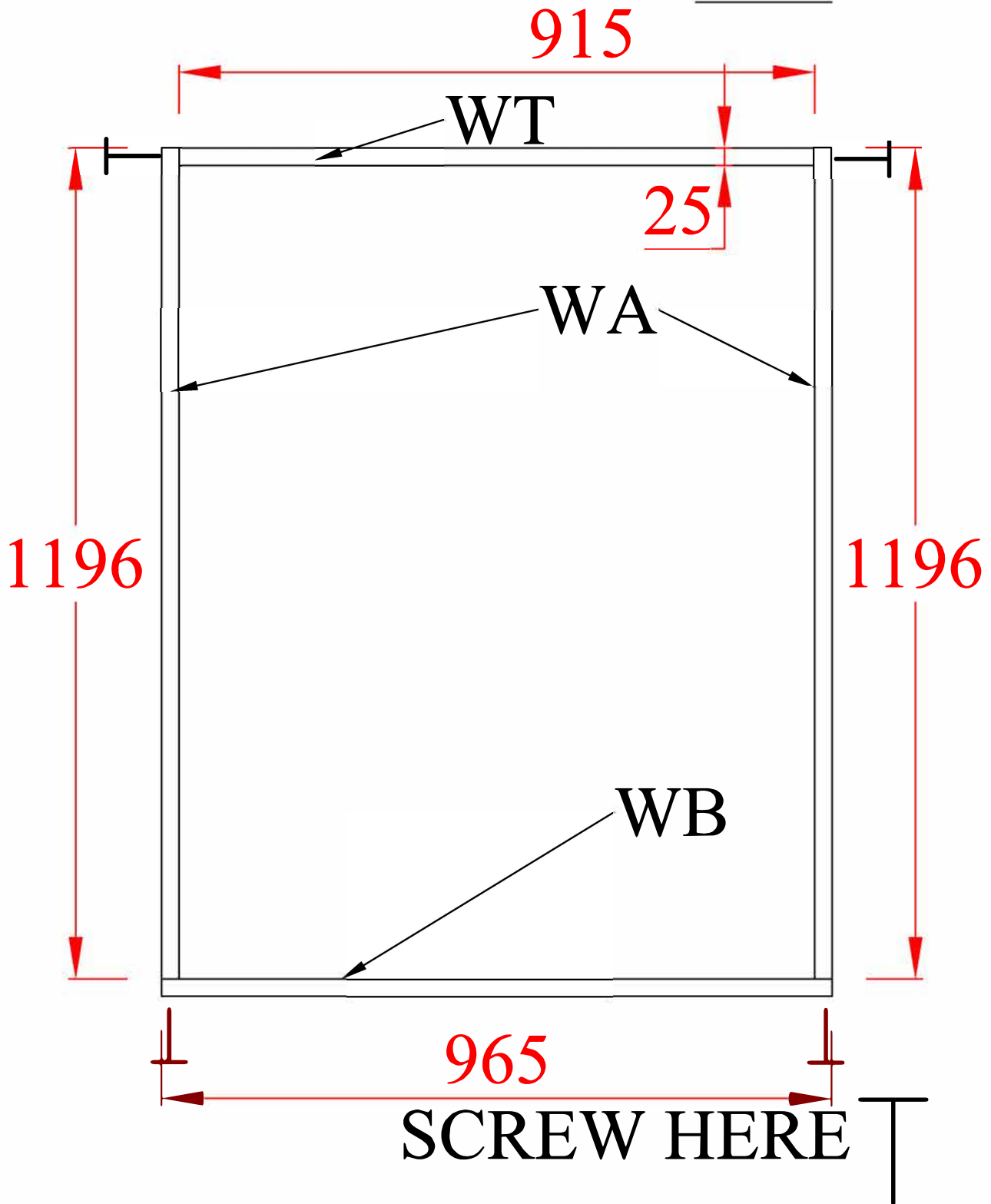


Fig 96

W9S
WINDOW
-INNER FRAME
ASSEMBLY

Window
inner frame
WA, WB, WT
25xlog thickness

TOP



TOP

W9S
WINDOW-
OUTER FRAME
ASSEMBLY

1125

WD

drip bar

WC

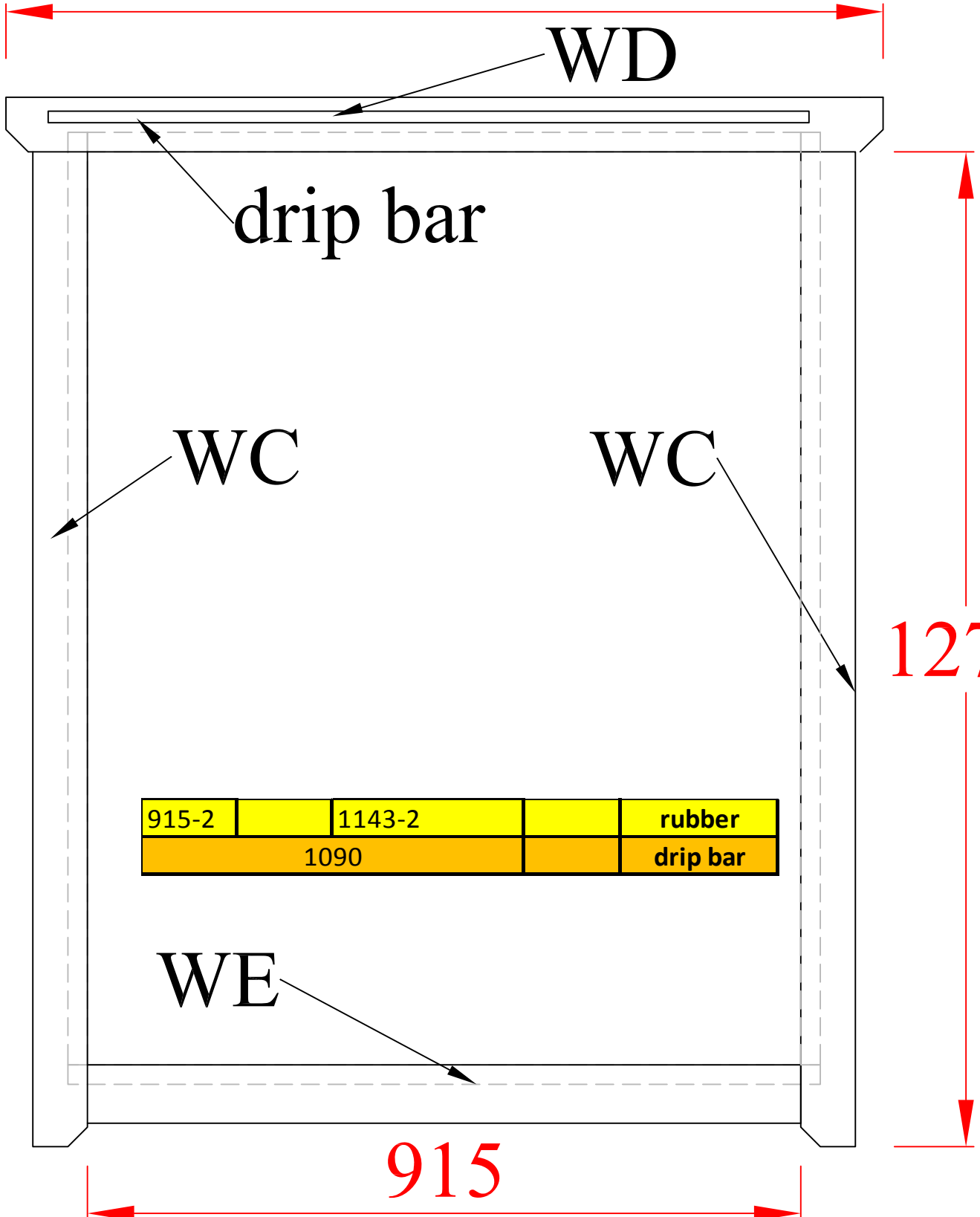
WC

1276

915-2		1143-2		rubber
1090				drip bar

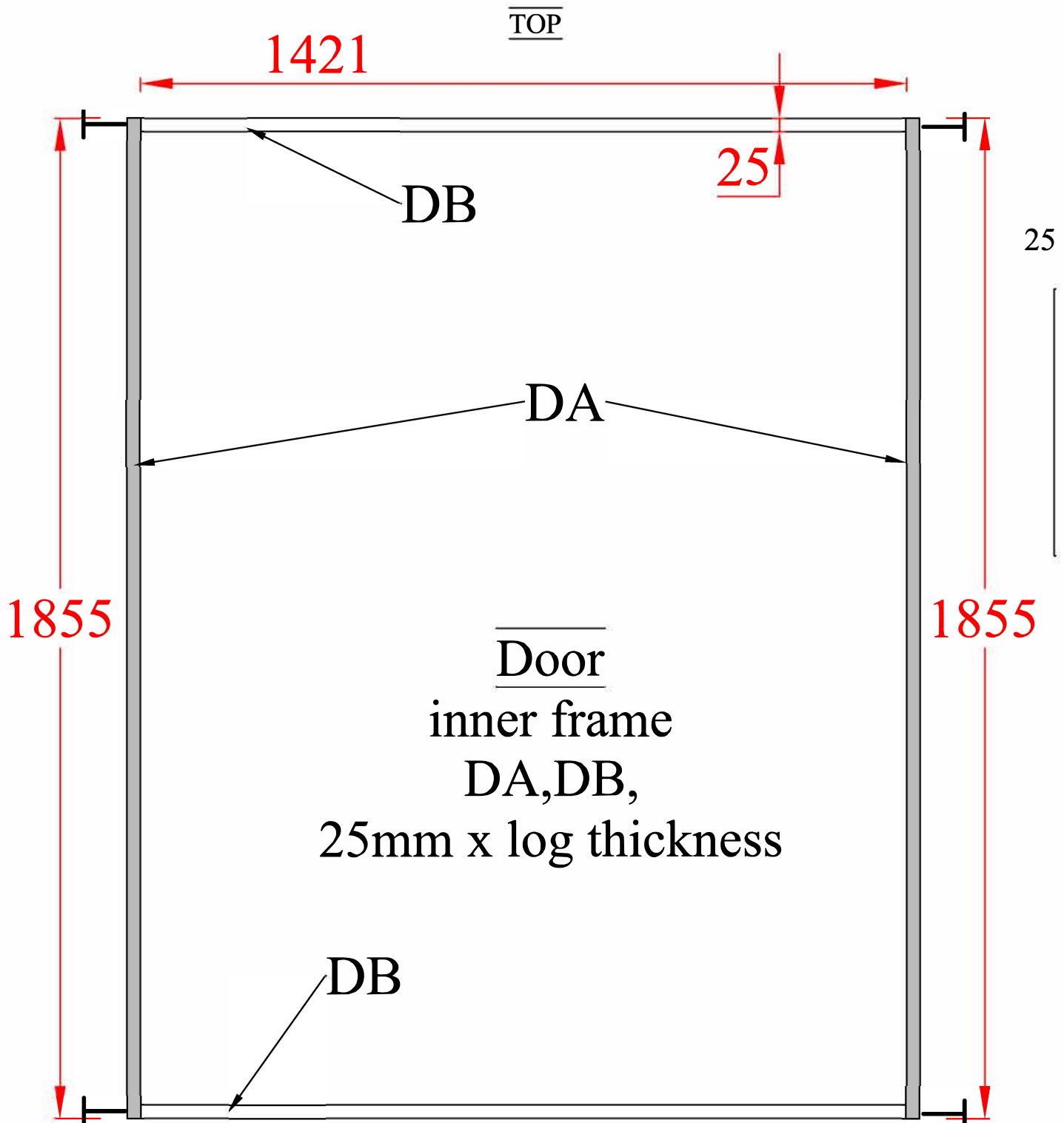
WE

915



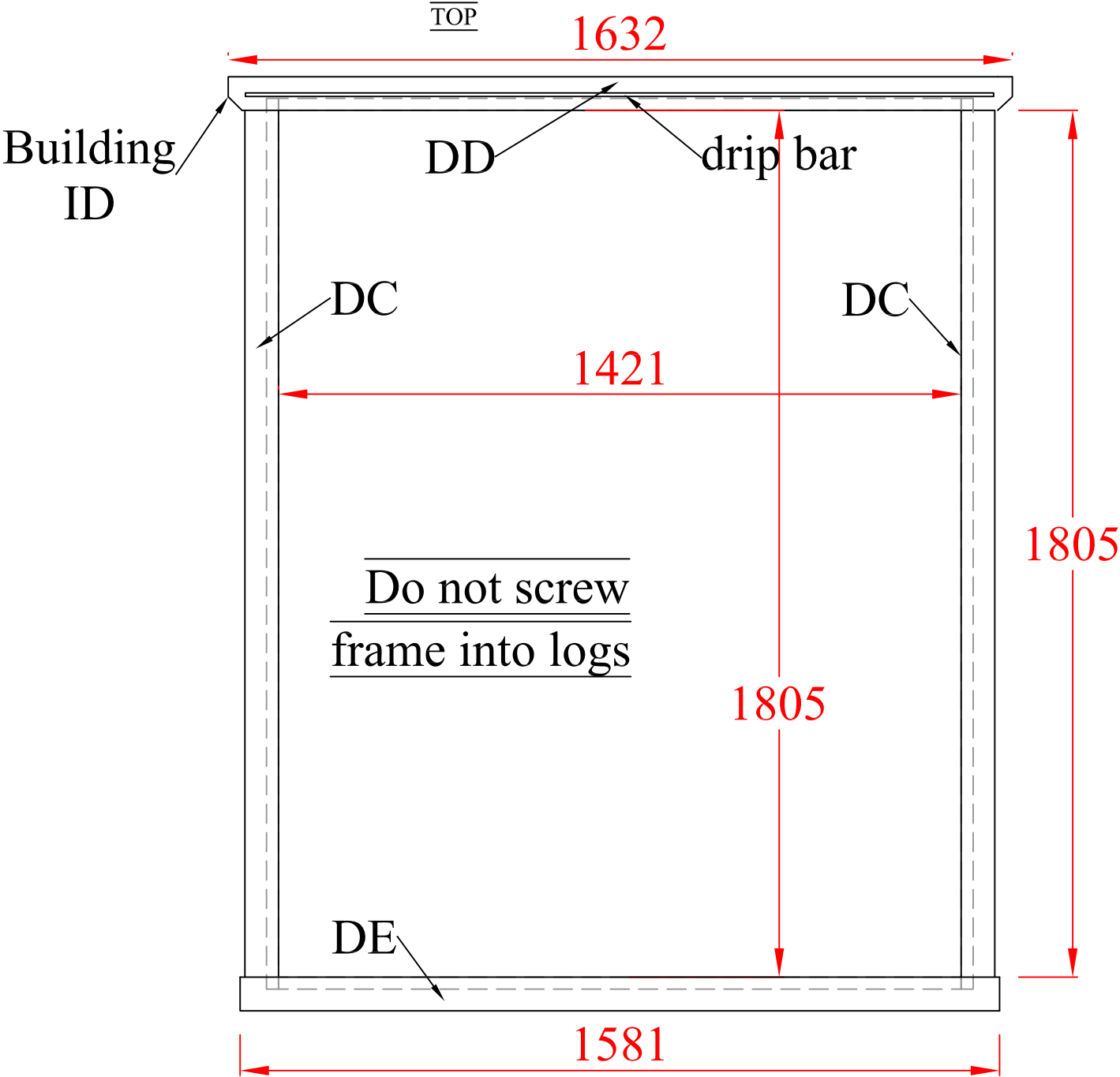
34/44/70 DOUBLE DOOR
-INNER FRAME ASSEMBLY

SCREW
HERE
T



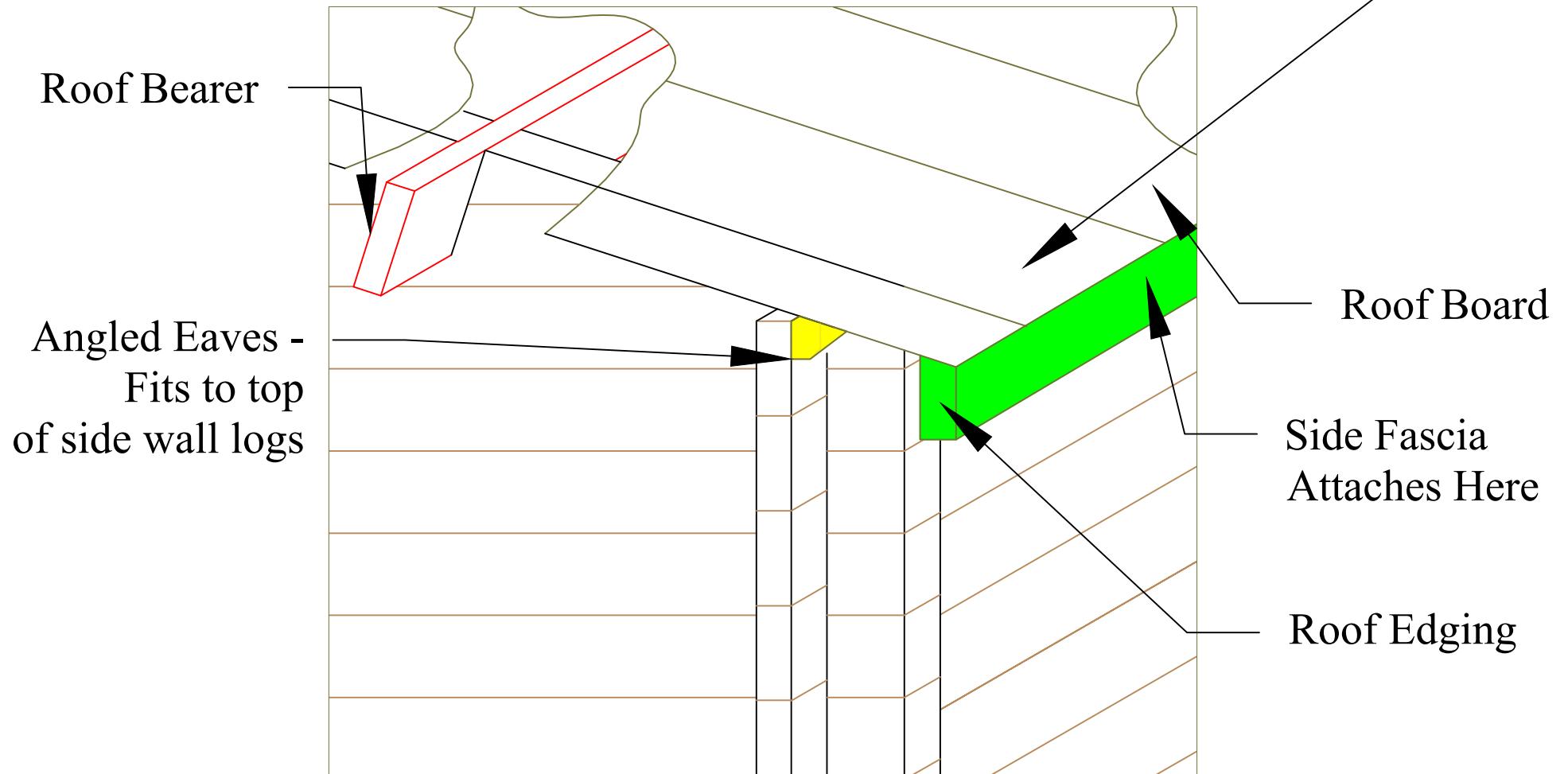
1777-2		1421-2	rubber
1600			drip bar

28/34/44/70DOUBLE DOOR OUTER
FRAME ASSEMBLY

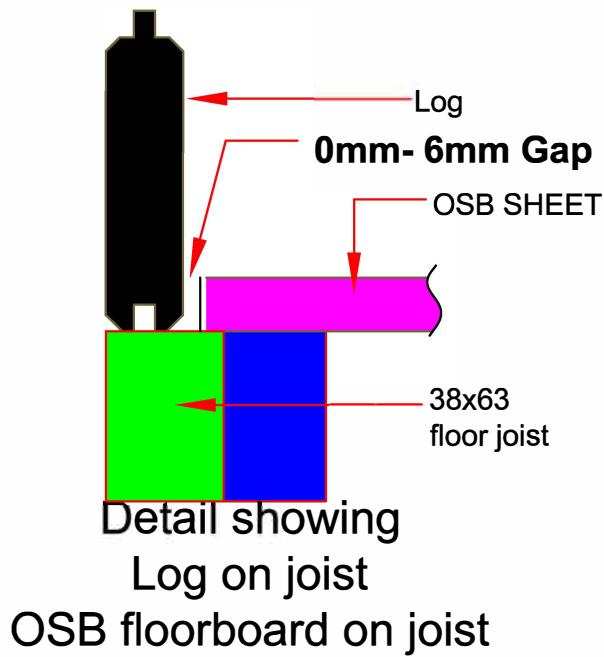


ROOF EDGINGS BREAKDOWN

Note: Overhang Tiles 40mm past roof board edge to allow for side fascia



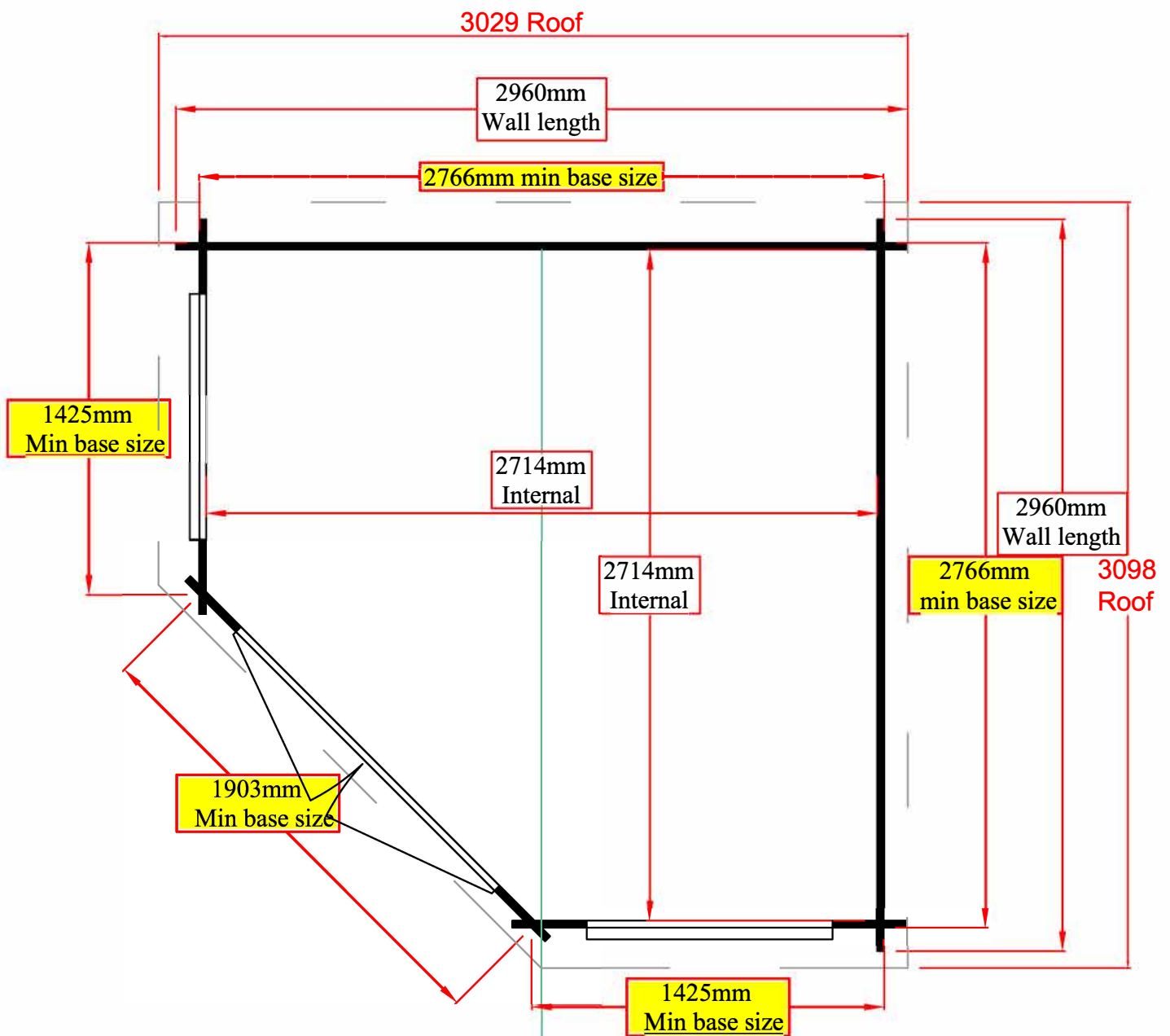
Base details

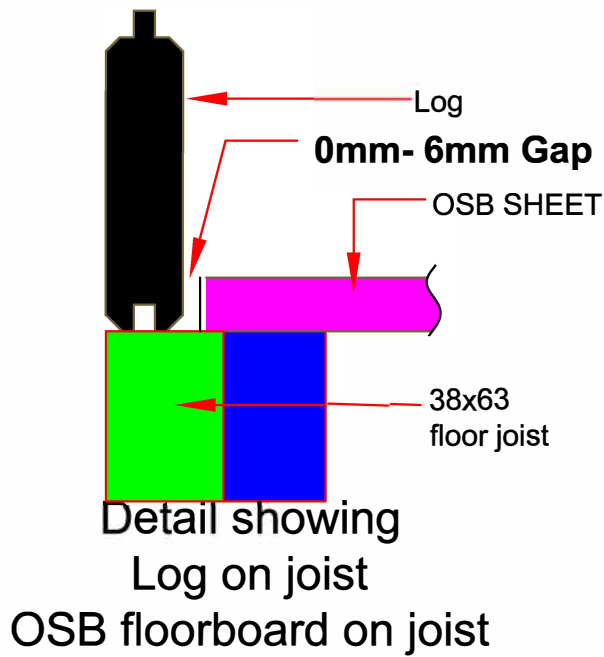


page 1

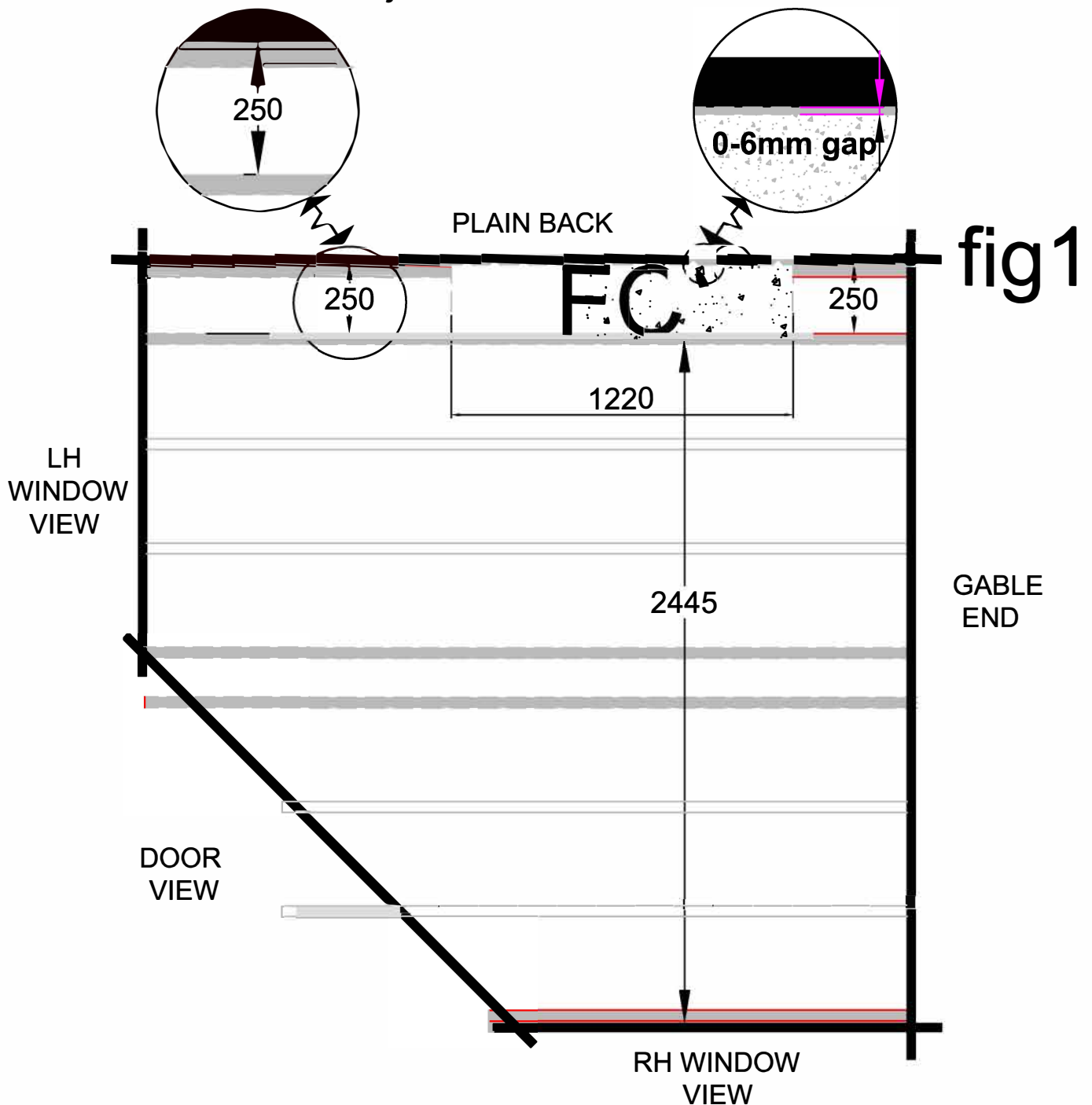
2960x2960
Belvior or Ardcastle d door
FLOOR PLAN
Reference for base

see page 4,6,& 8 for bearer spacing



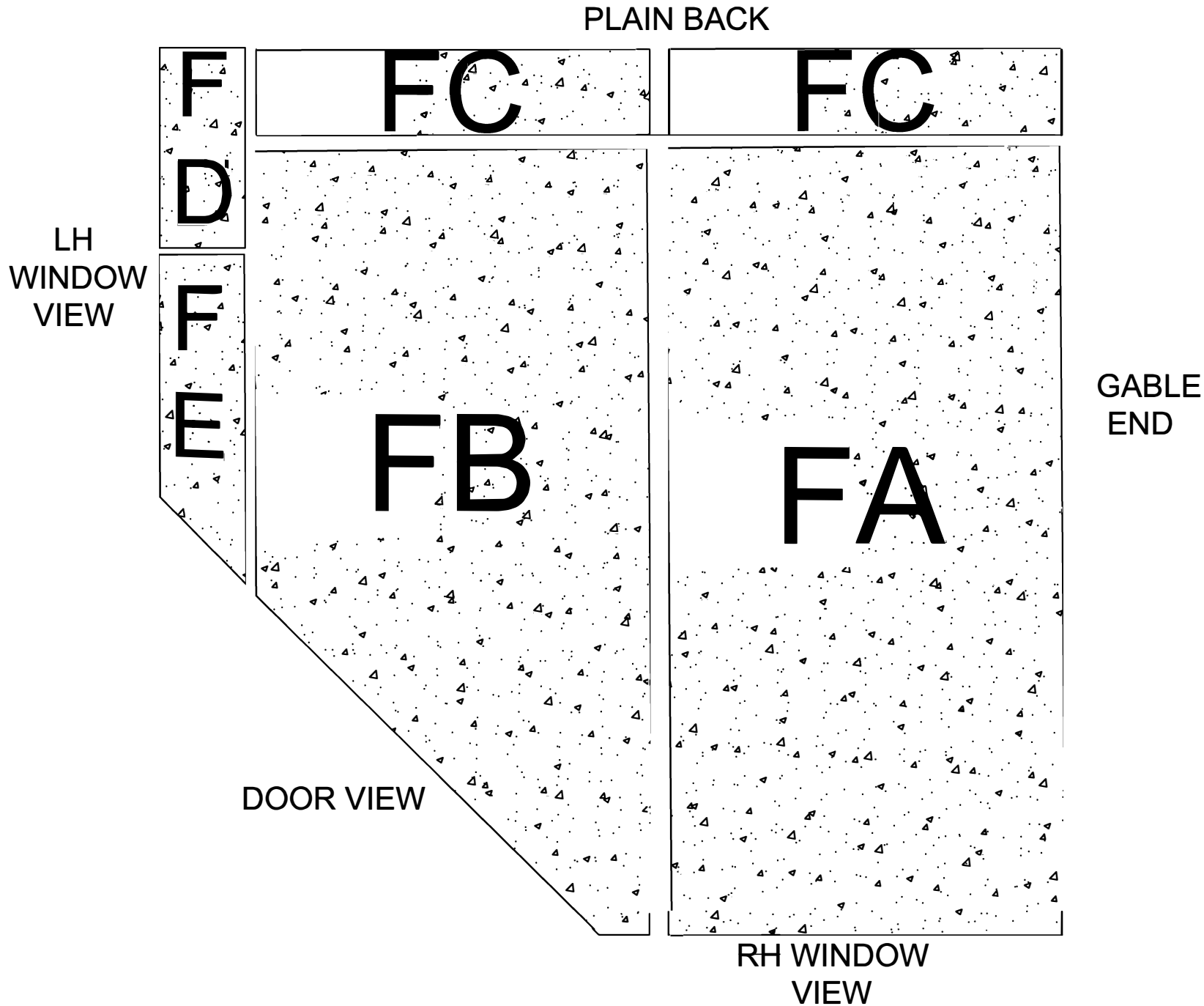


2960x2960
Belvior or Ardcastle d door
FLOOR PLAN
PRESSURE TREATED
FLOOR JOISTS 38x63
7 x 2765
2 x 1520
2 x 2230
OSB FLOOR SHEETS
SEE INSTRUCTIONS



see page 4,6,& 8 for bearer spacing

page 3



2960x2960
Belvior or Ardcastle d door
FLOOR SHEETS
Fit these sheets last

up to 6mm Expansion gap
all around the floor edge

sheets may need
trimming

2960x2960

Belvior or Ardcastle d door

DOOR VIEW

PARTS LIST

E x 1

E1 x1

E2 x 1

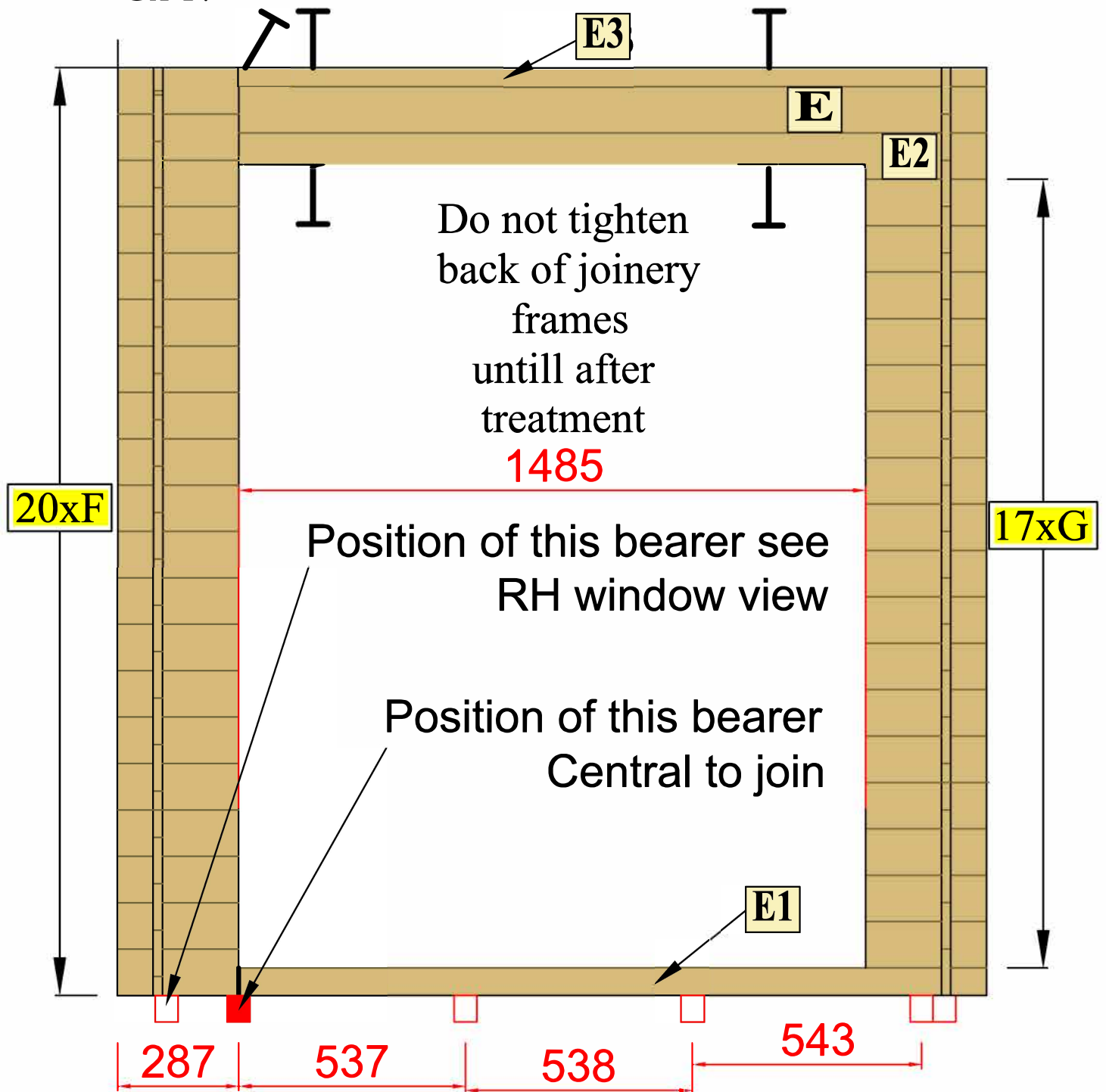
E3 x 1

F x 20

Gx 17

page 4

T 80mm screws see section G 8-11



BEARER CENTRES

2960x2960

Belvior or Ardcastle d door

RH WINDOW VIEW

PARTS LIST

Cx11

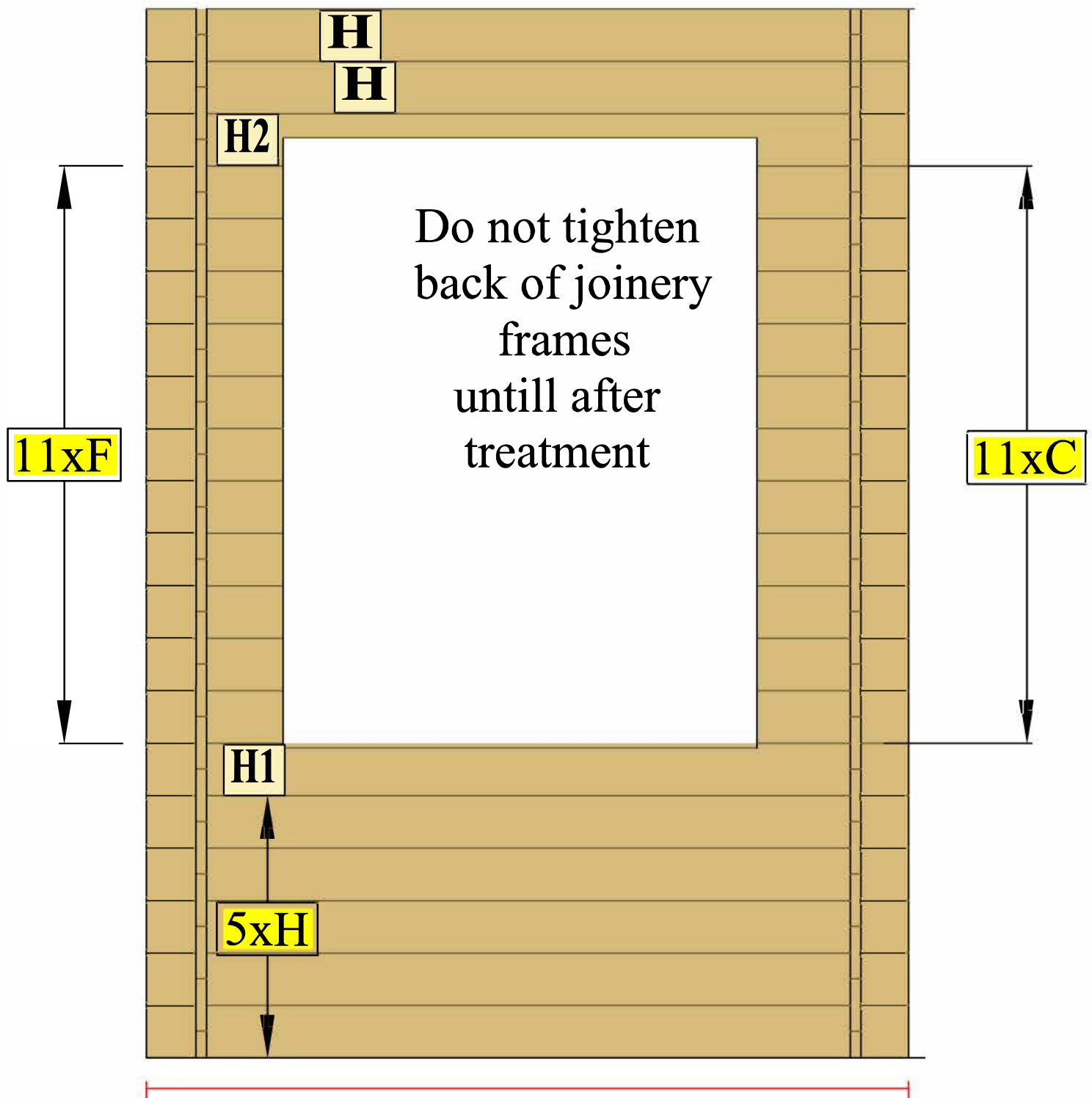
Hx7

H1x1

H2x1

Fx11

page 5



LH WINDOW View

PARTS LIST

Bx7

B1x1

B2 x1

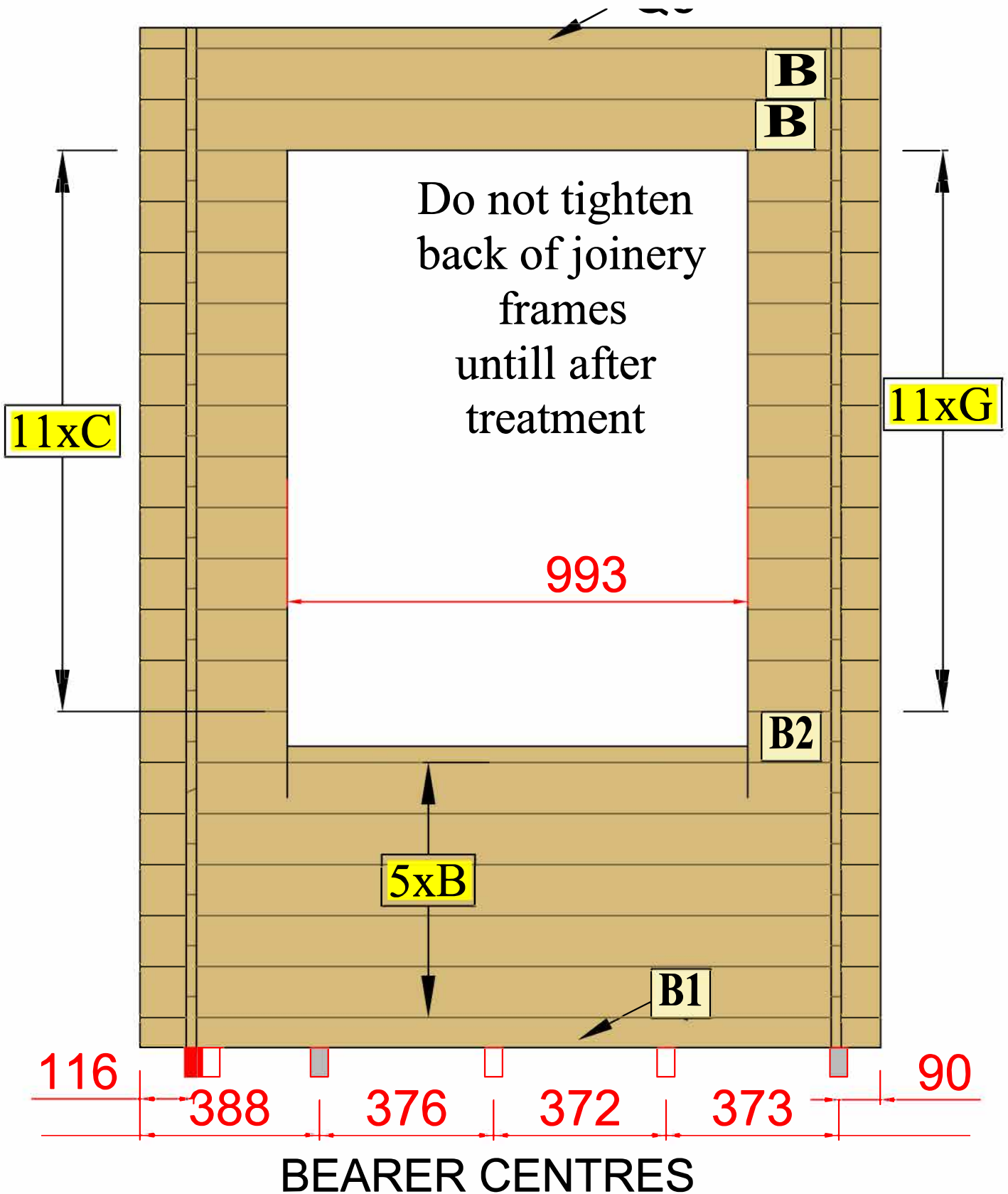
B3x1

B4x1

Cx11

Gx11

page 6



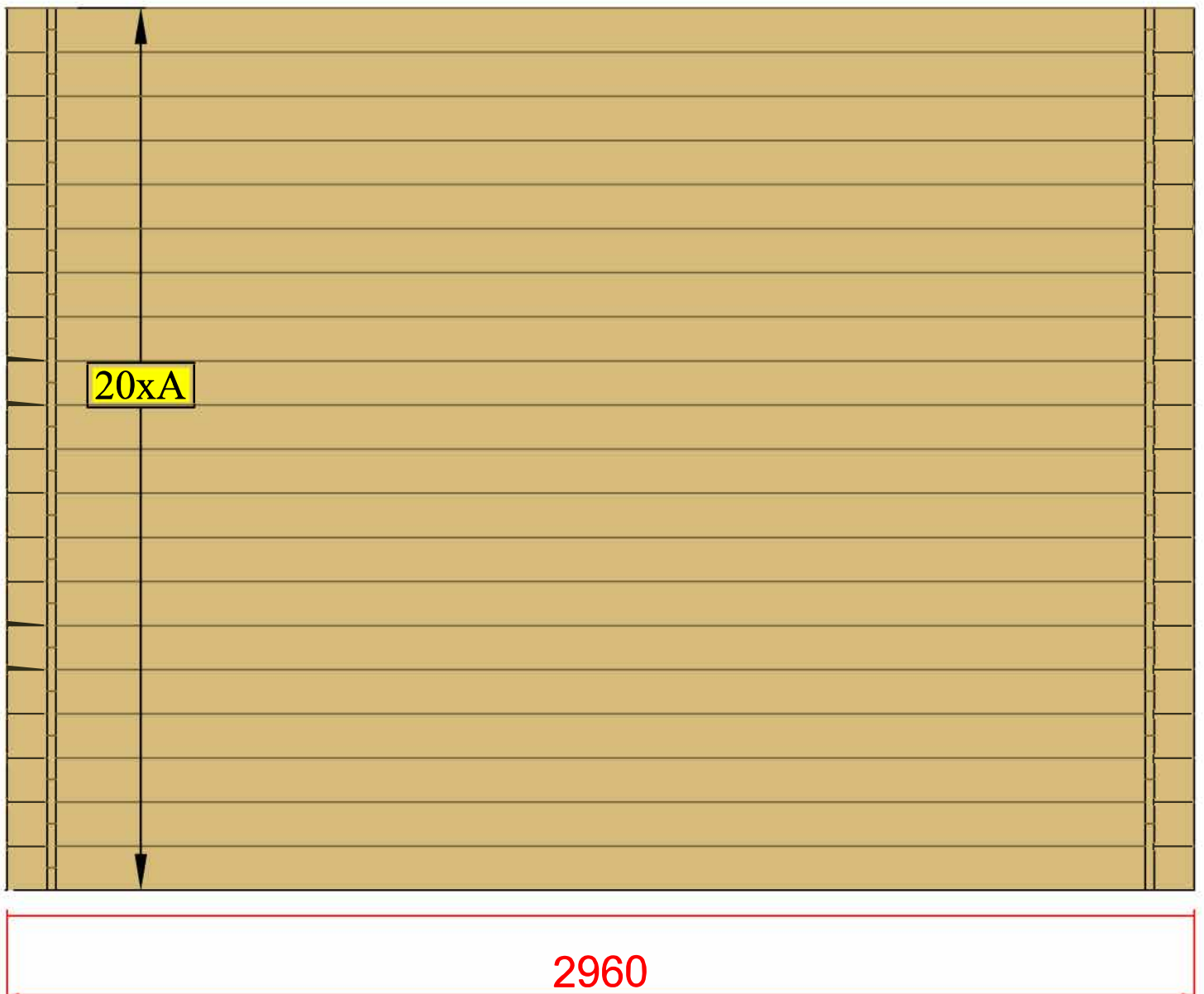
2960x2960
Belvior or Ardcastle d door

PLAIN BACK VIEW

PARTS LIST

Ax20

page 7



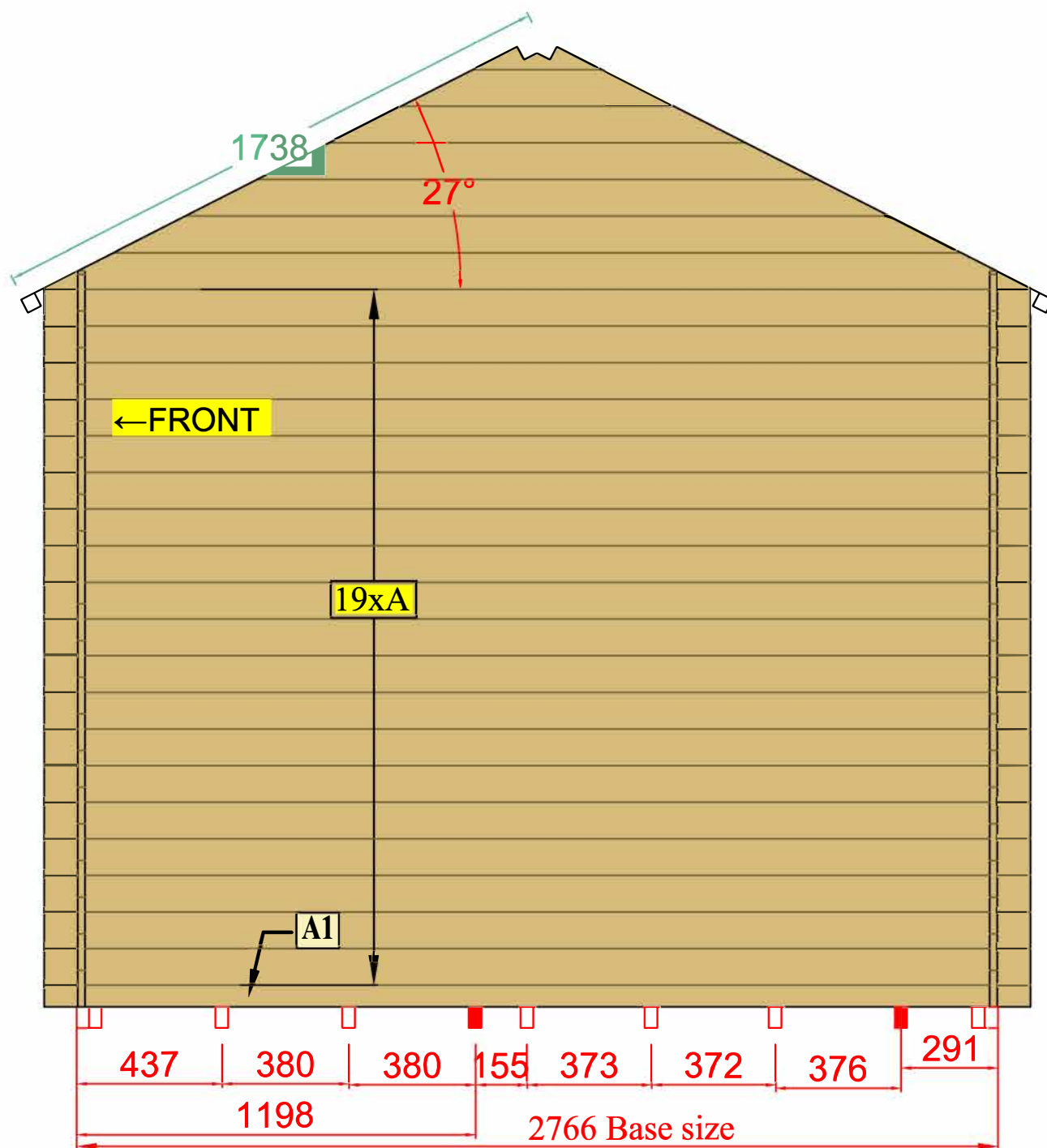
2960x2960
Belvior or Ardcastle d door

GABLE END
PARTS LIST

A x19

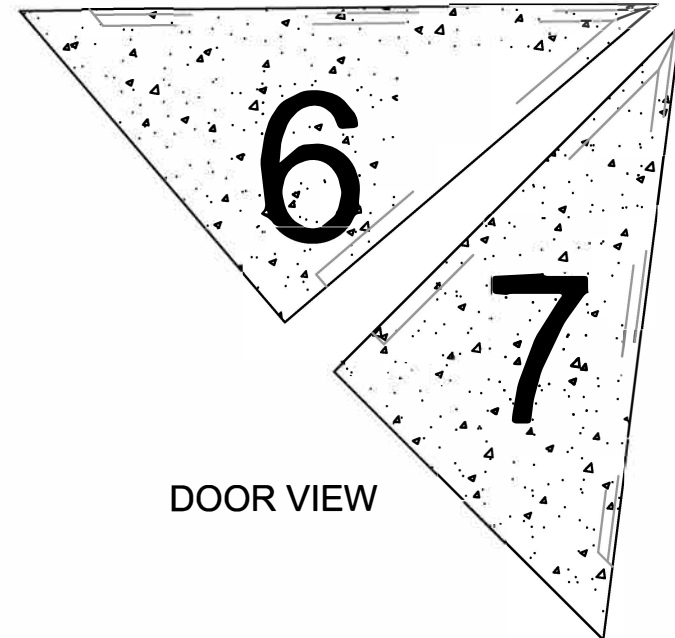
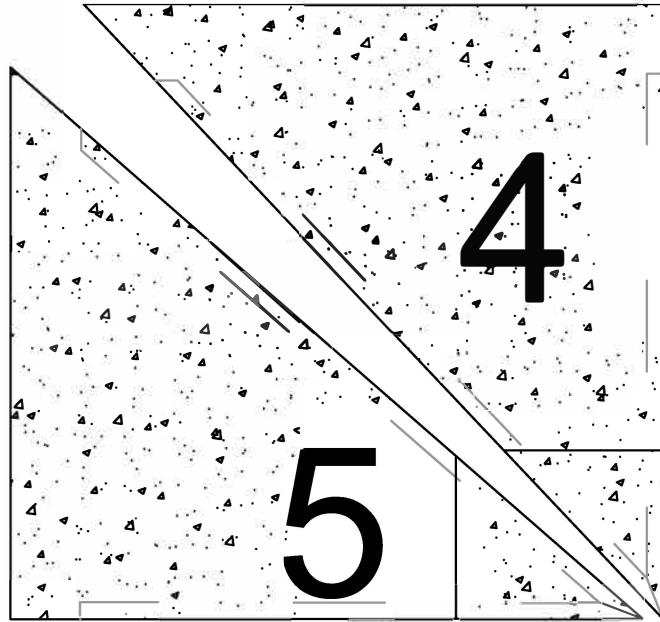
A1x1

page 8

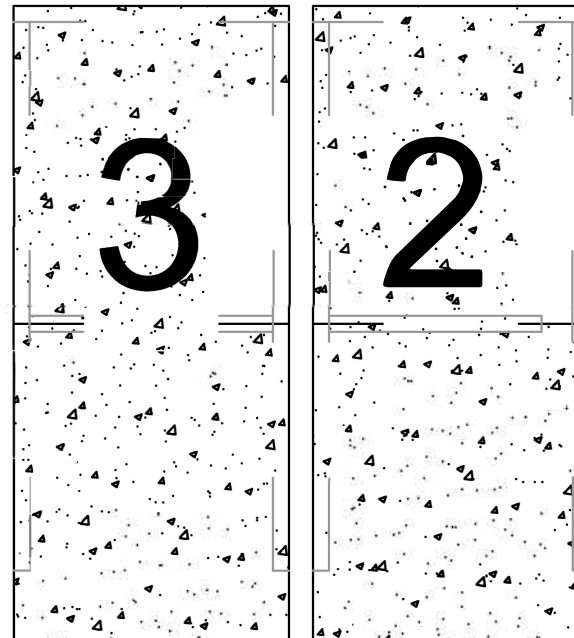
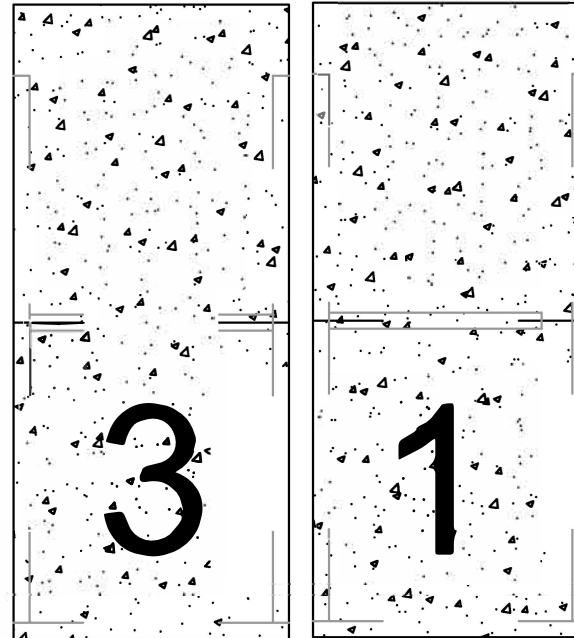


PLAIN BACK

LH
WINDOW
VIEW



DOOR VIEW

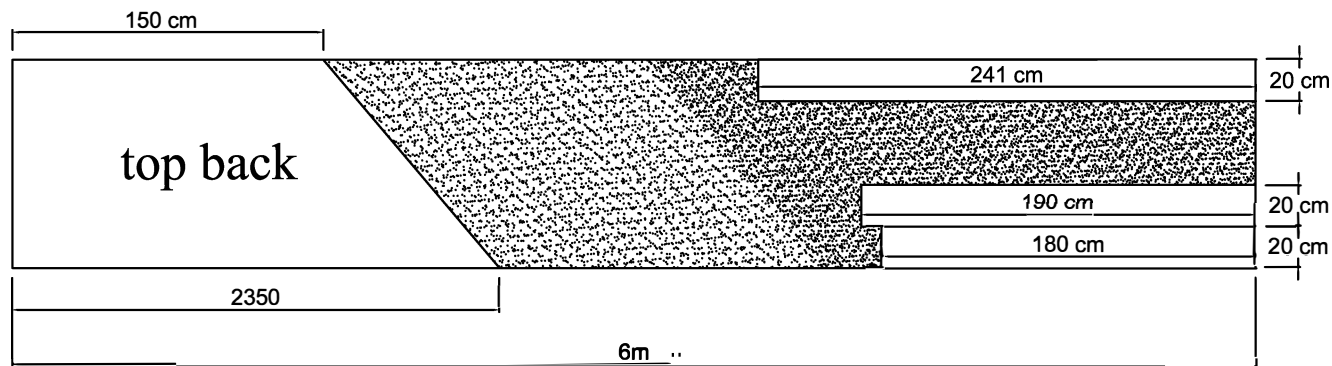


RH WINDOW
VIEW

GABLE
END

2960x2960
Belvioror Ardcastle d door
ROOF SHEETS

page 9



2960x2960
Belvior or
Ardcastle d door
cutting felt
layout

