

0619RANE0325FGSD3TW-V1

19MM LOG CABIN, REVERSE APEX, NO EXTRAS, 3X2.5M, FULLY GLAZED SINGLE DOOR, THREE TALL WINDOWS

BEFORE YOU START PLEASE READ INSTRUCTIONS CAREFULLY

- Check the pack and make sure you have all the parts listed.
- When you are ready to start, make sure you have the right tools at hand (not supplied) including a Phillips screwdriver, Stanley knife, wood saw, step ladder and drill with 2mm bit.
- Ensure there is plenty of space and a clean dry area for assembly.

TIMBER

As with all natural materials, timber can be affected during various weather conditions. For the duration of heavy or extended periods of rain, swelling of the wood panels may occur. Warping of the wood may also occur during excessive dry spells due to an interior moisture loss. Unfortunately, these processes cannot be avoided but can be helped. It is suggested that the outdoor building is sprayed with water during extended periods of warm sunshine and sheltered as much as possible during rain or snow.

BUILDING A BASE

When thinking about where the building and base are going to be constructed: Ensure that there will be access (60cm) to all sides for maintenance work and annual treatment.

Ensure the base is level and is built on firm ground, to prevent distortion. Refer to diagrams for the base dimension. The base should be slightly smaller than the external measurement of the building, i.e. The cladding should overlap the base, creating a run off for water. It is also recommended that the floor be at least 25mm above the surrounding ground level to avoid flooding.

TYPES OF BASE

- Concrete 75mm laid on top of 75mm hard-core.
- Slabs laid on 50mm of sharp sand.

Whilst all products manufactured are made to the highest standards of Safety and in the case of childrens products independently tested to EN71 level, we cannot accept responsibility for your safety whilst erecting or using this product.

Refer to the instructions pages for your specific product code



All buildings should be erected by two adults



Winter = High Moisture = Expansion
Summer = Low Moisture = Contraction



2mm Drill bit

For ease of assembly, you **MUST** pilot drill all screw holes and ensure all screw heads are countersunk.



CAUTION

Every effort has been made during the manufacturing process to eliminate the prospect of splinters on rough surfaces of the timber. You are strongly advised to wear gloves when working with or handling rough sawn timber.



For ease of assembly use a rubber mallet to fit the log boards. Do **NOT** use a heavy hammer.



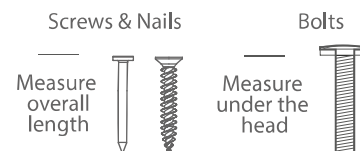
Ensure to measure and check before cutting boards.



It is advisable to use a hand saw when cutting roof and floor boards.



To ensure log boards are even, use a spirit level to check each layer has been installed correctly.



To identify the fixings required for each step use a measuring tape.

For assistance please contact customer care on: 01636 821215

Mercia Garden Products Limited,
Sutton On Trent,
Newark,
Nottinghamshire,
NG23 6QN

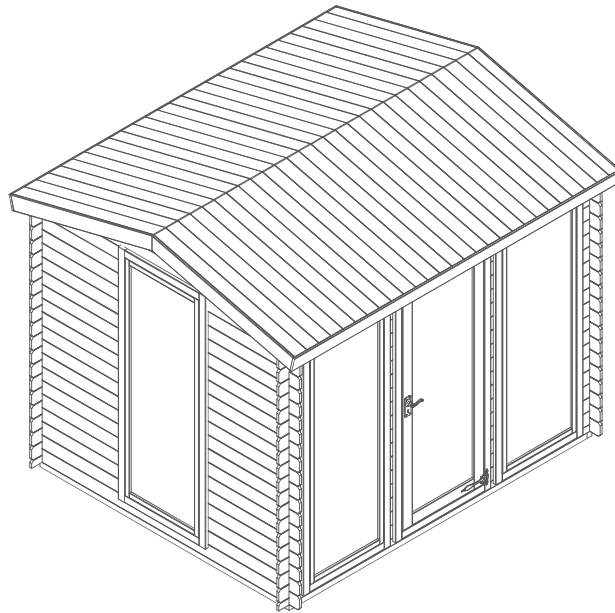
www.merciagardenproducts.co.uk



Overall Dimensions:
Width = 3028mm
Depth = 2640mm
Height = 2490mm

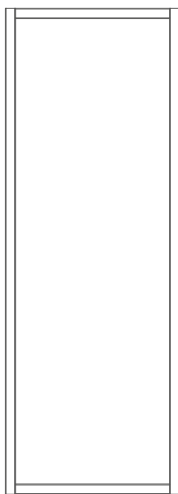
Base Dimensions:
Width = 2804mm
Depth = 2308mm

Before assembly
please make sure you have a
suitable base ready to erect your
building



Window Contents:

1



Window QTY 3
AI-06LOGSANGTW684X1905-V1



Window Frame Left Upright - 71x70x2065mm QTY 3
AI-0619LOGDUFL-V3



Window Frame Right Upright - 71x70x2065mm QTY 3
AI-0619LOGDUFR-V3



Window Frame Top - 81x125x808mm QTY 3
AI-0619LOGTWTF-V3



Window Frame Bottom - 71x70x688mm QTY 3
AI-0619LOGTWBF-V3

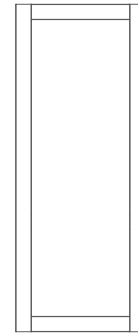


Rain Guards QTY 3
RG2844-710 (28x44x710mm)



Single Door Contents:

7

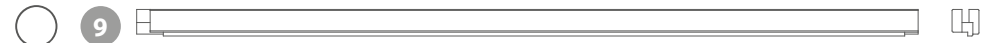


**Fully Glazed
Door QTY 1**

AI-06LOGSANFGMD750X1900-V1



Door Frame Left Upright - 71x70x2065mm QTY 1
AI-0619LOGDUFL-V3



Door Frame Right Upright - 71x70x2065mm QTY 1
AI-0619LOGDUFR-V3



Door Frame Top - 81x125x884mm QTY 1
AI-0619LOGSDTF-V3



Door Frame Bottom - 71x70x764mm QTY 1
AI-0619LOGSDBF-V3



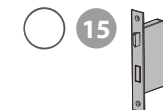
Rain Guard QTY 1
RG2844-780 (28x44x780mm)



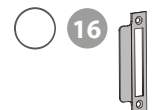
9 Inch T-Hinge QTY 2
PI-07-0002



**Handles (Pair)
QTY1**
PI-07-0006

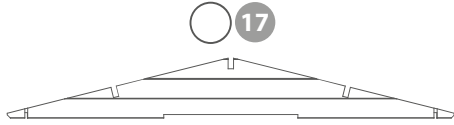


**Mortice Lock
QTY1**
PI-07-0017

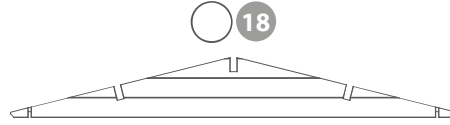


**Key Plate
QTY1**
PI-07-0017

Main Building Contents



Notched Window Gable - 2500mm QTY 1
AI-0619RANE0325FGSD3TW-GW



Gable - 2500mm QTY 1
AI-0619RANE0325FGSD3TW-G



Starter Board - 19x66x2996mm QTY 2
LB19RT66-A-2996



Log Board - 19x120x237mm QTY 36
LB19-B-237



Log Board - 19x120x100mm QTY 36
LB19-C-100



Log Board - 19x120x2996mm QTY 18
LB19-A-2996



Finisher Board - 19x110x2996mm QTY 1
LB19RG110-A-2996



Log Board - 19x120x2500mm QTY 20
LB19-A-2500



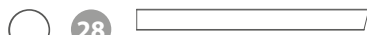
Log Board - 19x120x875mm QTY 36
LB19-B-875



Roof Purlin - 40x90x3000mm QTY 3
F4090-3000



Eaves Frame - 27x44x3000mm QTY 2
F2744-3000



Fascia - 12x120x1370mm QTY 4
S16120-G-1370 (1X14° ANGLE CUT)



Fascia - 12x120x3024mm QTY 2
S12120-3024



Bearer - 44x44x2308mm QTY 2
F4444-2308-PT



Bearer - 44x44x2716mm QTY 8
F4444-2716-PT



Roof Board - 12x121x1344mm QTY 56
MB12-1344



Floor Board - 12x121x2264mm QTY 26
MB12-2264



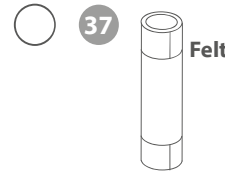
Storm Brace - 27x44x2000mm QTY 8
F2744-2000



Closure Trim - 16x28x2400mm (approx length) QTY 11
S1628-2400



Log Board - 19x110x2996mm QTY 1
LB19RG110-AD-2996



Felt



Roof Spacers QTY 5
PI-07-0208 (20x100x2mm)

Nail Bag

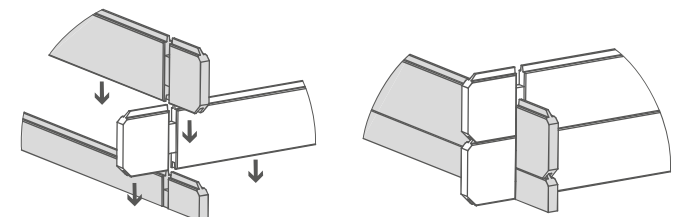
There may be extra screws present in the nail bag



Pre-assembly

***Please note** Each board interlocks at either end in a staggered pattern.

Before securing ensure that the boards are fitted properly in their respective tongues and grooves.



Step 1

**Parts Needed - No. 30 QTY 2
No. 31 QTY 2**

Lay the bearers (**No's. 30 & 31**) onto a firm and level surface (**free from areas where standing water can collect**) as shown in the illustration.

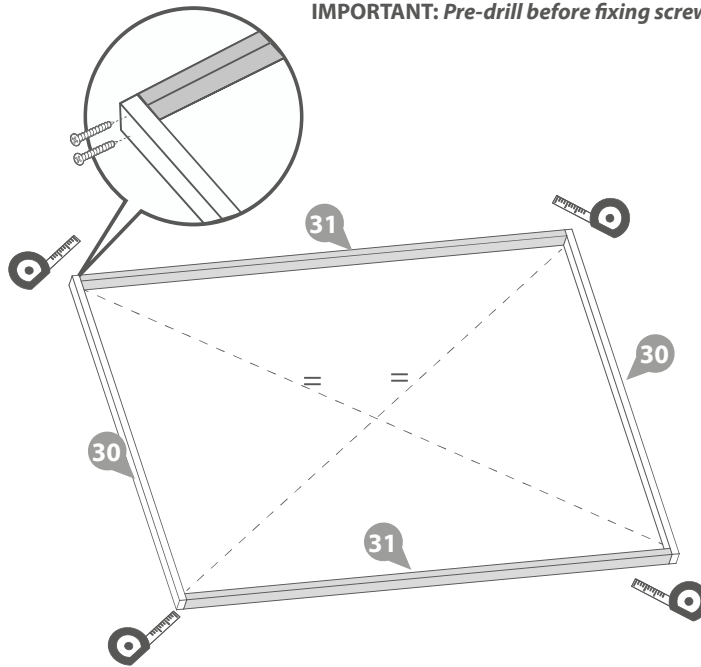
Fix the bearers together at each corner screwing 2 screws per corner using 8x70mm screws, ensuring the bearer is flush.

Once fully assembled, ensure the bearers are square by measuring from corner to corner as illustrated, making sure the measurements are equal.

If the bearers are not aligned equally, unscrew, adjust and re-align accordingly.

8x70mm Screws

IMPORTANT: Pre-drill before fixing screws.

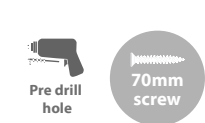
**Step 2**

Parts Needed - No. 31 QTY 6

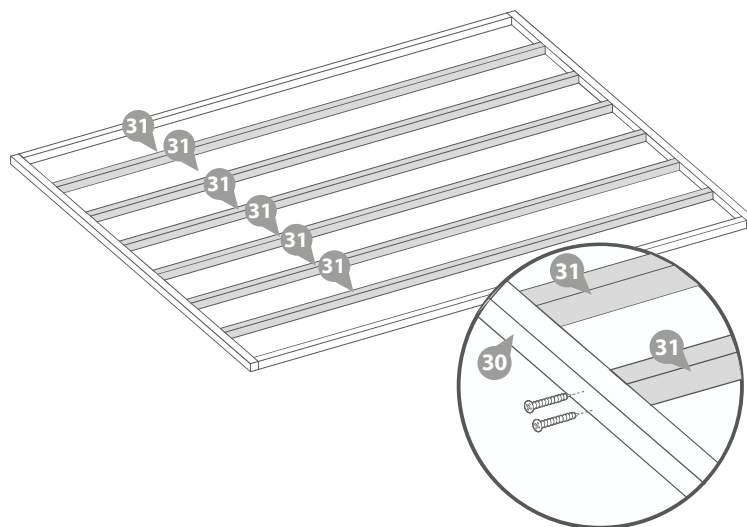
Following the same method arrange the remaining bearers (**No.31**) inside the assembled frame.

***Ensure there is an equal amount of space between each frame.**

Secure each of the frames in place using 2x70mm screws for each side of the bearer, ensuring the bearers remain level.

24x70mm Screws

IMPORTANT: Pre-drill before fixing screws.

**Step 3**

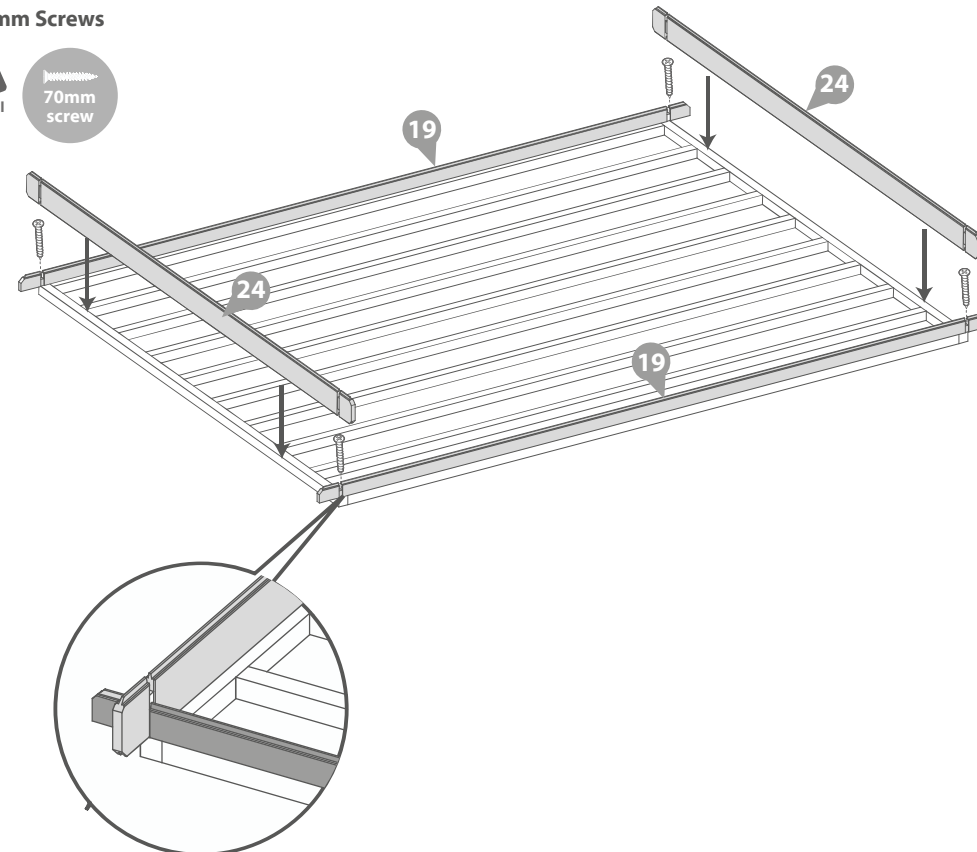
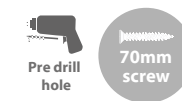
**Parts Needed - No. 19 QTY 2
No. 24 QTY 2**

Place the starter boards (**No's. 19 & 24**) on to assembled base frame along the longest sides and place the first two log boards (**No. 19**) in the notch as shown.

Ensure the boards sit square on the base using the same method used in Step 1. Measure corner to corner, making sure the measurements are equal.

Once the boards are square, lift up the log board (**No. 24**) and fix the starterboards in place.

Fix each of the starter boards to the frame by screwing through the notch into the frame as shown in the illustration.

4x70mm Screws

Step 4

Parts Needed - No. 20 QTY 6
No. 22 QTY 6
No. 24 QTY 6
No. 25 QTY 6

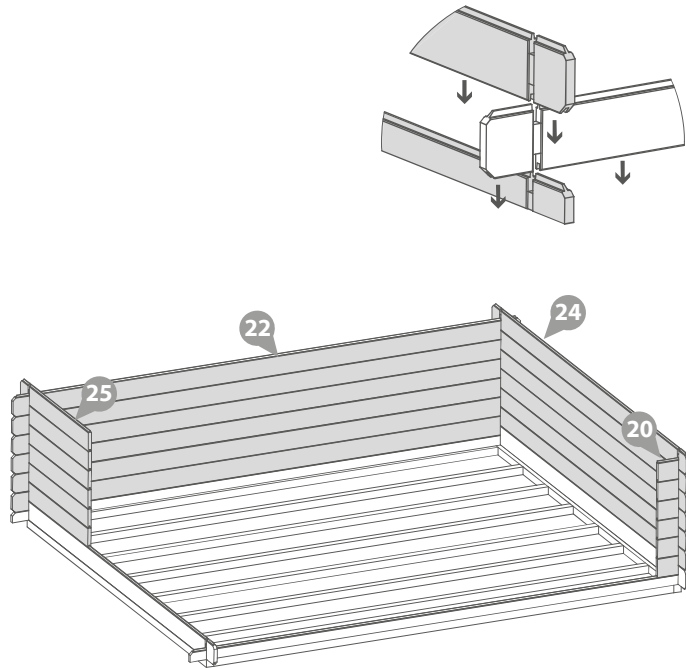
Following the method shown in the illustration, lay the first 6 boards (**No. 20, 22, 24 & 25**) on the back, side, back corner and one front corner as shown in the illustration

Start by placing the front and back boards, interlocking them with the side boards. Then place the next side boards, interlocking with the front and back boards. Continue this method until you have placed **6 boards off of the starter boards on each side**, as shown in the illustration.

This will create your first level.

***Ensure that the boards are level and flush with each other as you lay each one.**

****Please Note:** The short boards at the front/ side of the building (either side of the door and window opening's) can be placed either side depending on your needs.

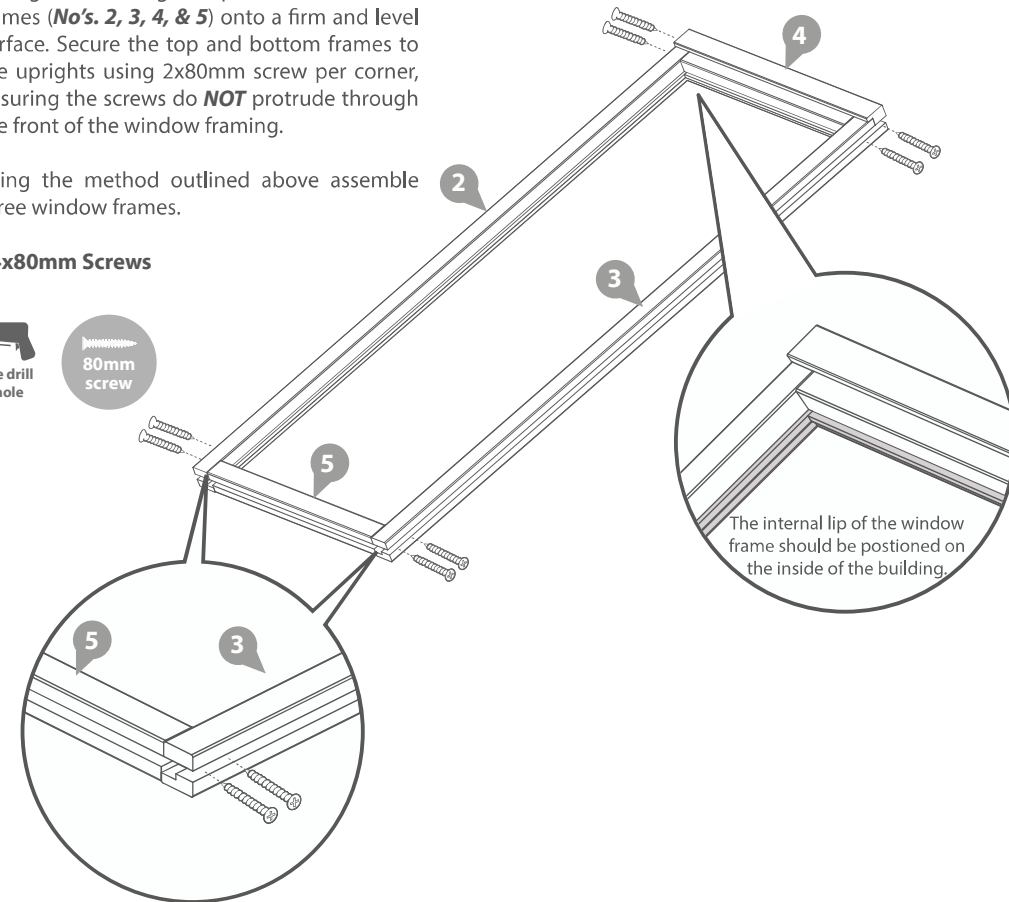
**Step 5**

Parts Needed - No. 2 QTY 3
No. 3 QTY 3
No. 4 QTY 3
No. 5 QTY 3

IMPORTANT : Pre-drill before fixing screws.

Arrange the left, right, top & bottom window frames (**No's. 2, 3, 4, & 5**) onto a firm and level surface. Secure the top and bottom frames to the uprights using 2x80mm screw per corner, ensuring the screws do **NOT** protrude through the front of the window framing.

Using the method outlined above assemble three window frames.

24x80mm Screws

Step 6

Parts Needed - No. 1 QTY 3

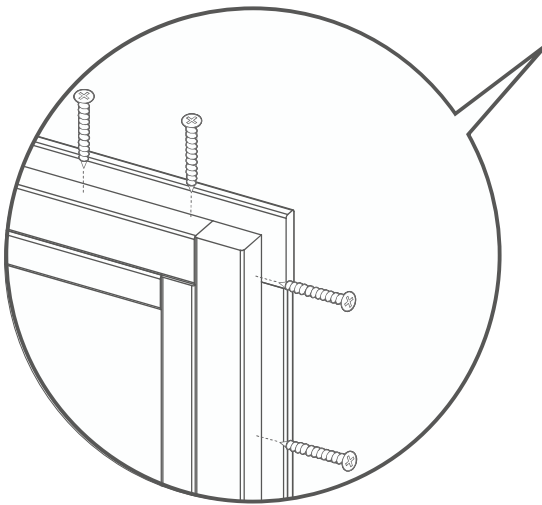
Rest each window (**No. 1**) into the assembled window frames as shown in the illustration, and secure into position by screwing through the framing into the window.

***Place the frame & window flat onto a level surface to help fix into place.**

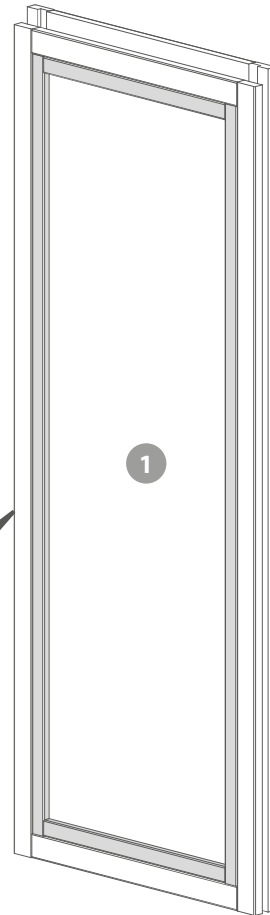
48x80mm Screws



80mm screw



IMPORTANT : Pre-drill before fixing screws.



Step 7

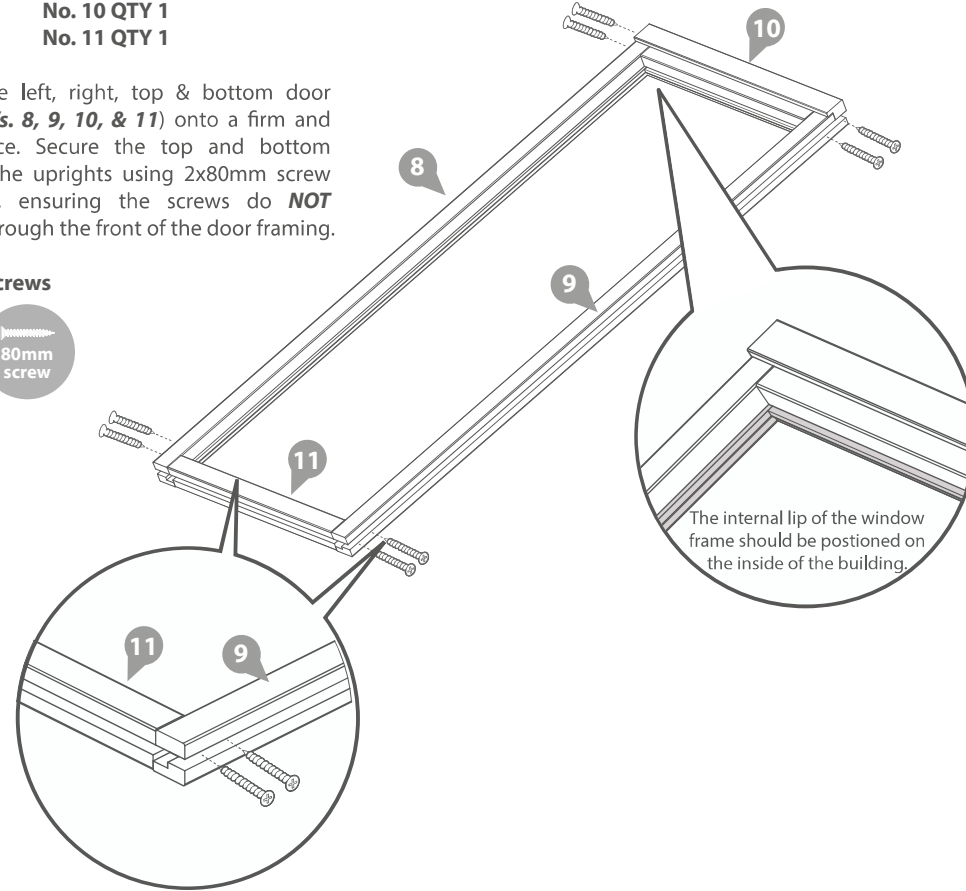
Parts Needed - No. 8 QTY 1
No. 9 QTY 1
No. 10 QTY 1
No. 11 QTY 1

Arrange the left, right, top & bottom door frames (**No's. 8, 9, 10, & 11**) onto a firm and level surface. Secure the top and bottom frames to the uprights using 2x80mm screw per corner, ensuring the screws do **NOT** protrude through the front of the door framing.

8x80mm Screws



80mm screw



IMPORTANT : Pre-drill before fixing screws.

Step 8

Parts Needed - No. 21 QTY 18

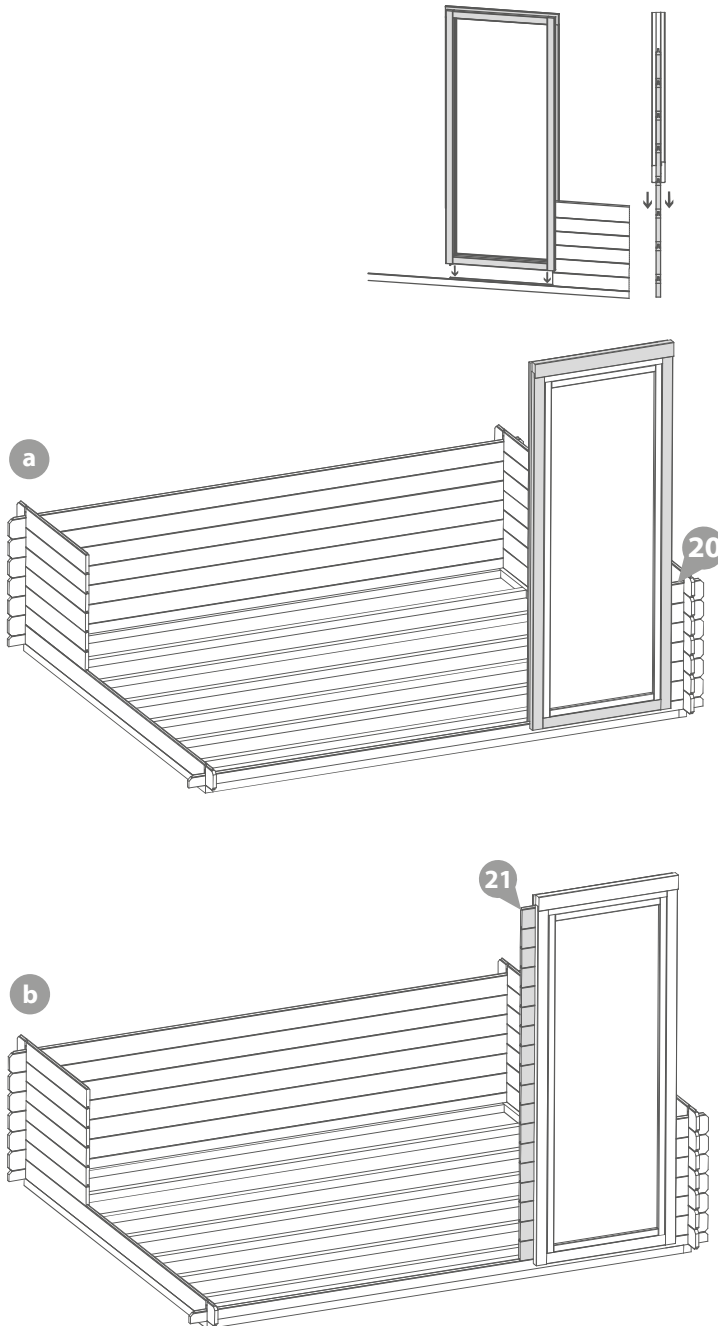
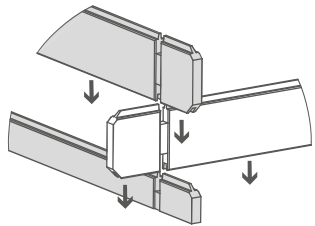
a Once you have laid 6 boards (off of the starter) on the front corner, locate one of the assembled window frames onto the log cabin as shown in the illustration.

Ensure the window frame is resting on top of the starter board and the log boards (**No.20**) are locked flush into one side of the window frame.

***If you have not yet assembled your window frames please refer to steps 5&6.*

b Once the window frame is in position, place the log boards (**No.21**) flush into the other side of the window frame, securing it in place.

**Ensure that the boards are level and flush with each other as you lay each one.*



Step 9

Parts Needed - No. 21 QTY 18

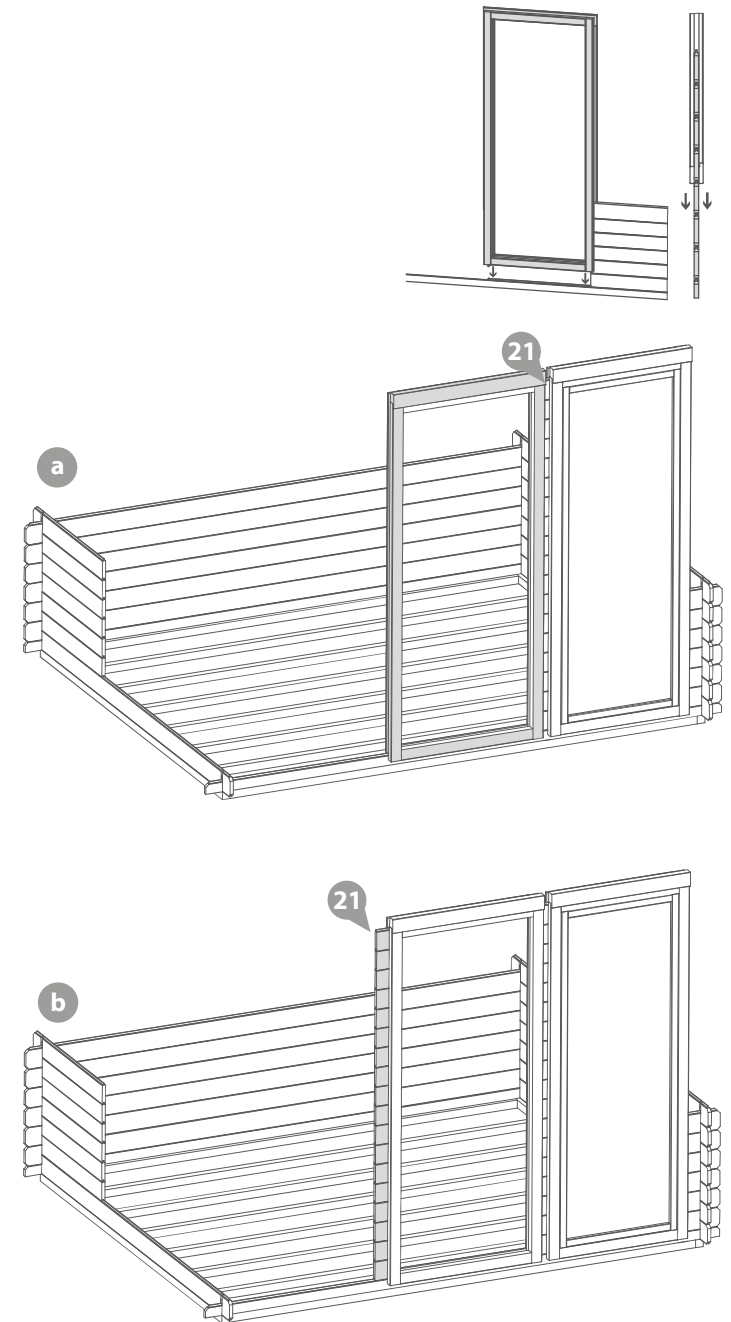
a Once you have positioned the first window and boards, locate the assembled door frame onto the log cabin as shown in the illustration.

Ensure the door frame is resting on top of the starter board and the log boards (**No.21**) are locked flush into one side of the door frame.

***If you have not yet assembled your door frames please refer to step 7.*

b Once the door frame is in position, place the remaining log boards (**No.21**) flush into the other side of the window frame, securing it in place.

**Ensure that the boards are level and flush with each other as you lay each one.*



Step 10**Parts Needed - No. 20 QTY 6****No. 25 QTY 6**

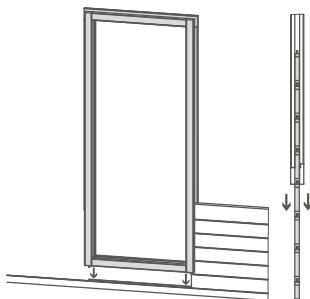
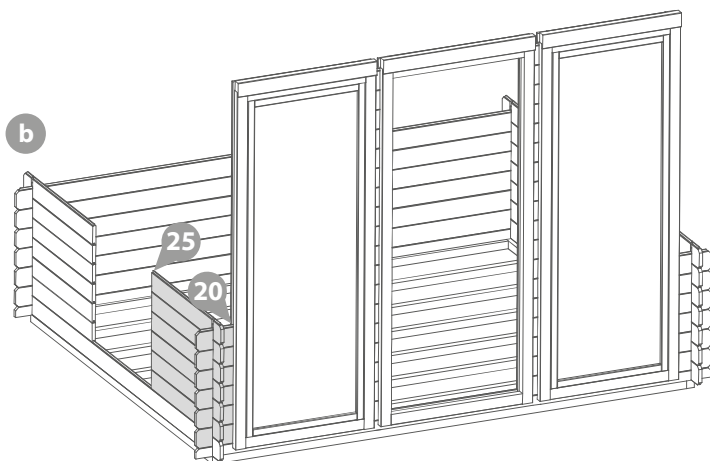
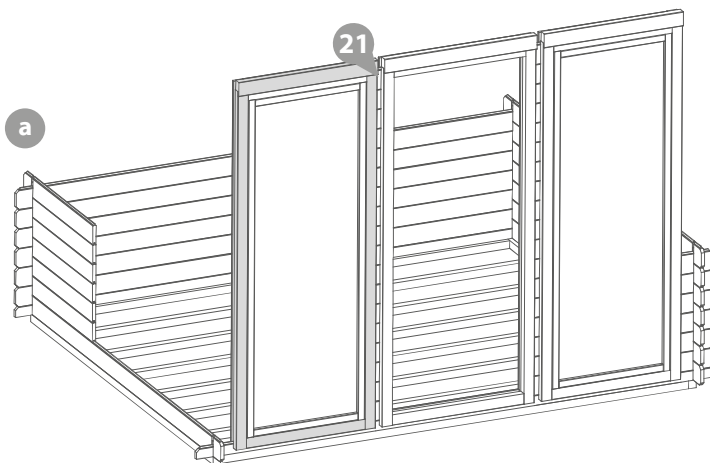
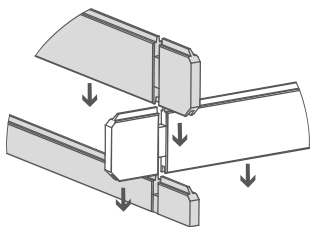
a Once you have positioned the door frame and boards, locate one of the assembled window frames onto the log cabin as shown in the illustration.

Ensure the window frame is resting on top of the starter board and the log boards (**No.21**) are locked flush into one side of the window frame.

****If you have not yet assembled your window frames please refer to steps 5&6.**

b Once the window frame is in position, lay 6 boards (**No.20 & 25**) as shown in the illustration to finish creating the first layer at the front corner.

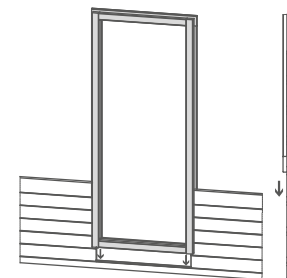
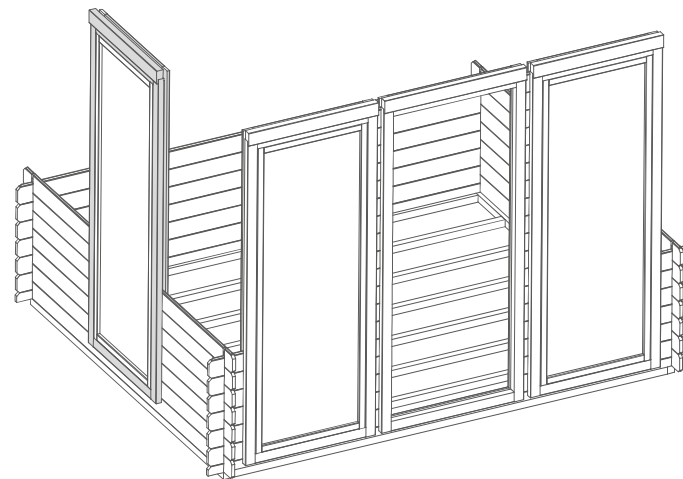
***Ensure that the boards are level and flush with each other as you lay each one.**

**Step 11**

Once you have laid 6 boards on each side and positioned the front windows and door frame, slide the third assembled window frame over the boards (**No.25**) resting the frame on top of the starter board.

****If you have not yet assembled your window frames please refer to steps 5&6.**

***Please note:** This image is for illustrative purposes and may differ from your choice in product (**regarding door/window position**). Nevertheless the process of fitting the door frame is the same.

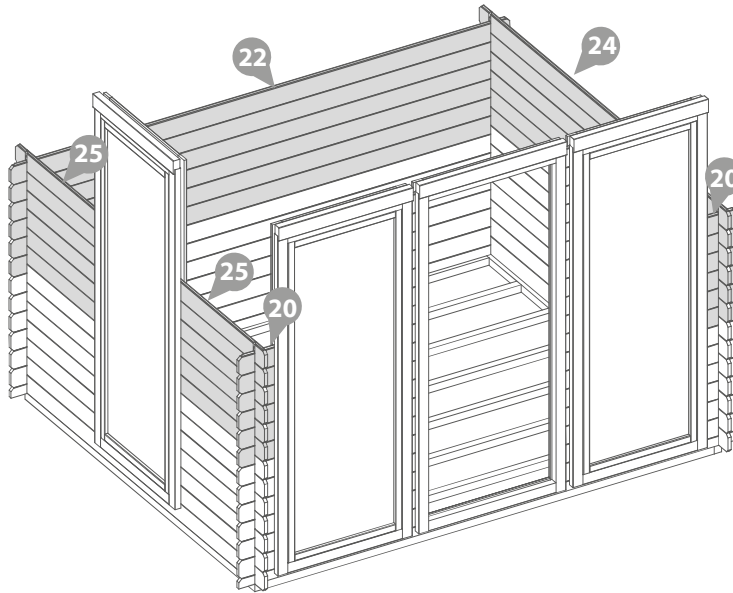


Step 12

Parts Needed - No. 20 QTY 12
No. 22 QTY 6
No. 24 QTY 6
No. 25 QTY 12

Following the method shown in the illustration, lay the next 6 boards (**No's. 20, 22, 24 & 25**) onto the assembly to create your second level.

****Ensure that the boards are level and flush with each other as you lay each one.***



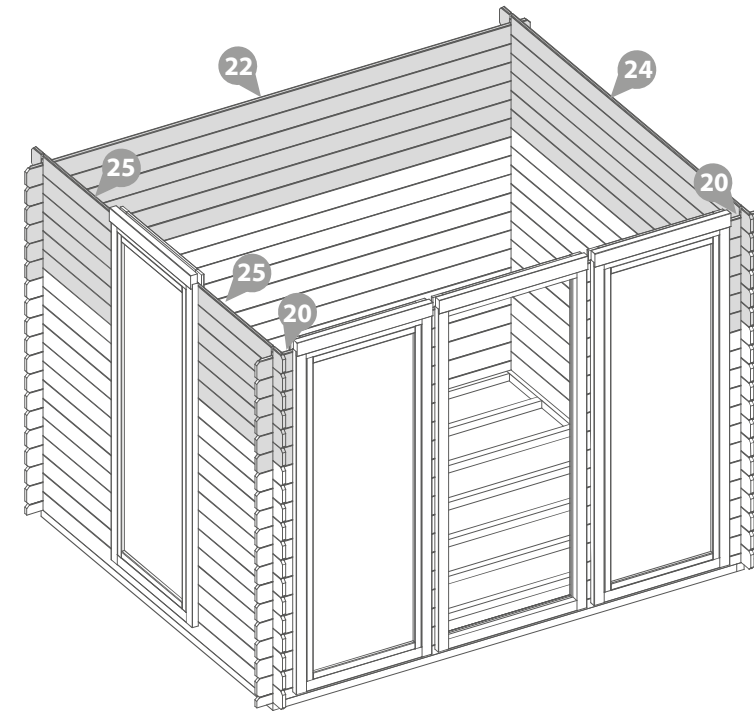
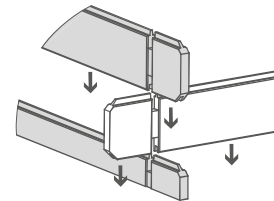
Step 13

Parts Needed - No. 20 QTY 12
No. 22 QTY 6
No. 24 QTY 6
No. 25 QTY 12

Following the method shown in the illustration, lay the next 6 boards (**No's. 20, 22, 24 & 25**) onto the assembly to create your second level.

****Ensure that the boards are level and flush with each other as you lay each one.***


 Rubber Mallet
 may be required
 to fit parts.



Step 14

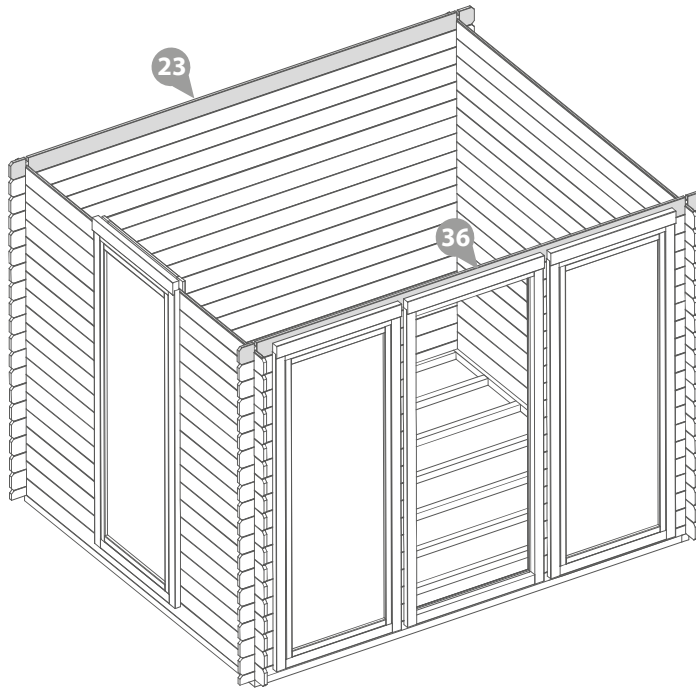
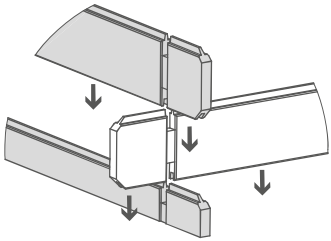
Parts Needed - No. 23 QTY 1
No. 36 QTY 1

Following the method shown in the illustration, lay the Finisher board (**No.23**) onto the rear of the log cabin and the remaining log board (**No.36**) onto the front and of the log cabin.

**Ensure that the boards are level and flush with each other as you lay each one.*



Rubber Mallet
may be required
to fit parts.



Step 15

Parts Needed - No. 17 QTY 1
No. 18 QTY 1

Place the gable tops (**No. 17 & 18**) onto the building. Fix into position by screwing through the notches as shown in the illustration.

**Ensure that the boards are level and flush with each other as you lay each one.*

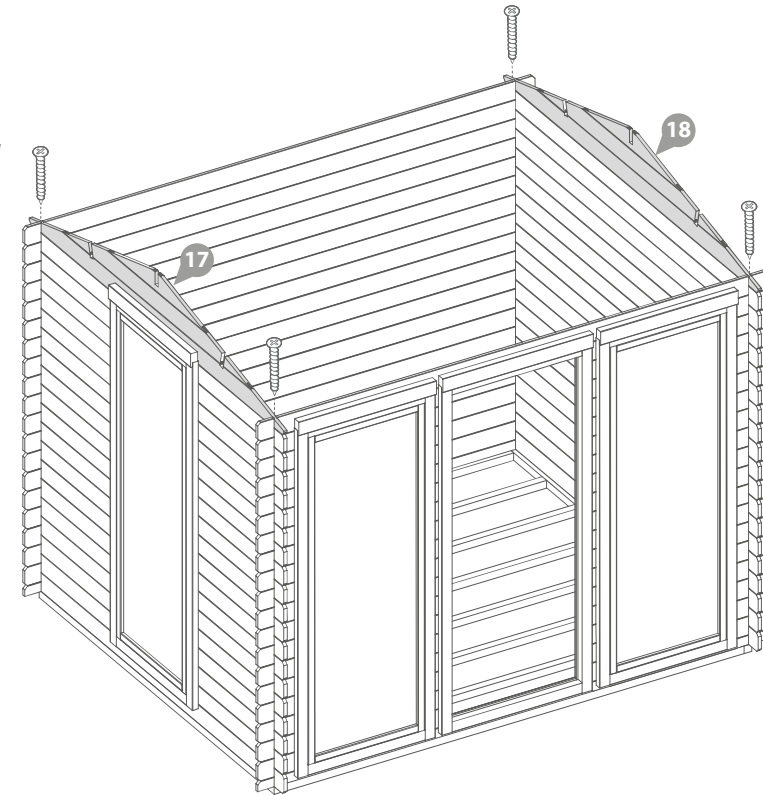
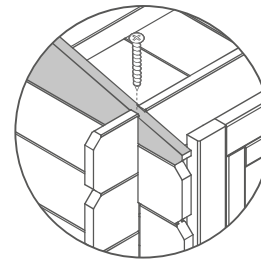
4x70mm Screws



Pre drill
hole



Rubber Mallet
may be required
to fit parts.



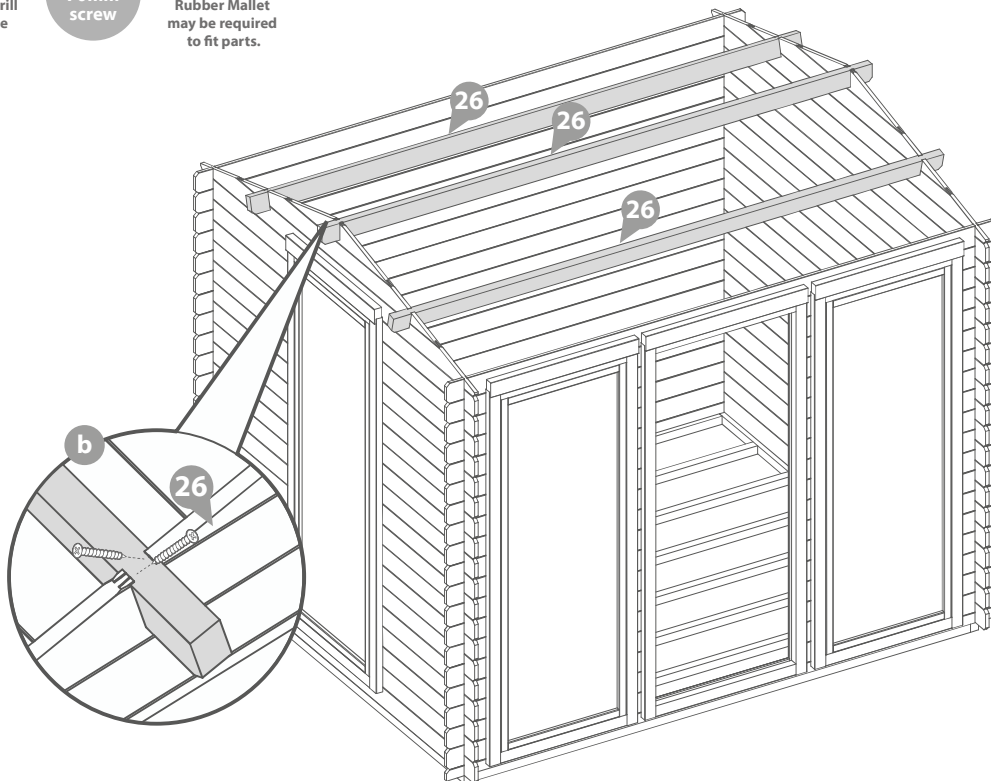
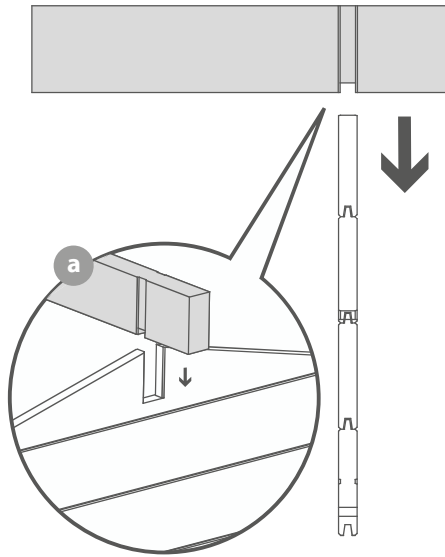
IMPORTANT: Pre-drill before fixing screws.

Step 16**Parts needed - No. 26 QTY 3**

a Align the Roof Purlin(s) (**No. 26**) into the cut out slots on each gable top ensuring each Roof Purlin interlocks into the boards.

b Secure the Roof Purlin at each end by screwing through the roof purlins into the boards (**ensure to pre-drill to avoid the boards splitting**) using 4x70mm screws per Roof Purlin.

***Please note:** The gable shown is for illustrative purposes and may differ in width from your choice in product. Nevertheless, despite any differences the process of fixing the Roof Purlin is the same.

12x70mm Screws**IMPORTANT: Pre-drill before fixing screws.****Step 17****Parts needed - No. 32 QTY 56**

a Place the first two roof boards (**No. 32**) onto either side of the log cabin, making sure the boards are flush to the end of the roof purlin. Once in position fix to each purlin using 3x40mm screws.

Use the spacer (**No. 38**) to create an expansion gap between each roof board if installing during low levels of moisture (Summer.) This creates an expansion gap for the boards to move into during high levels of moisture (Winter.)

Continue adding the roof boards along the roof, fixing each one into position using 3x40mm screws, making sure that each board is interlocked, flush at the bottom and meet at the top of the apex.

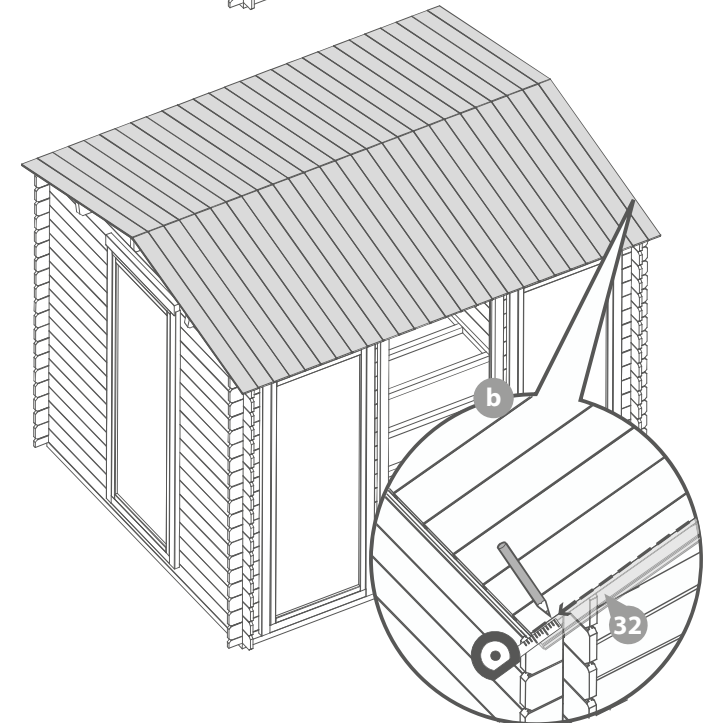
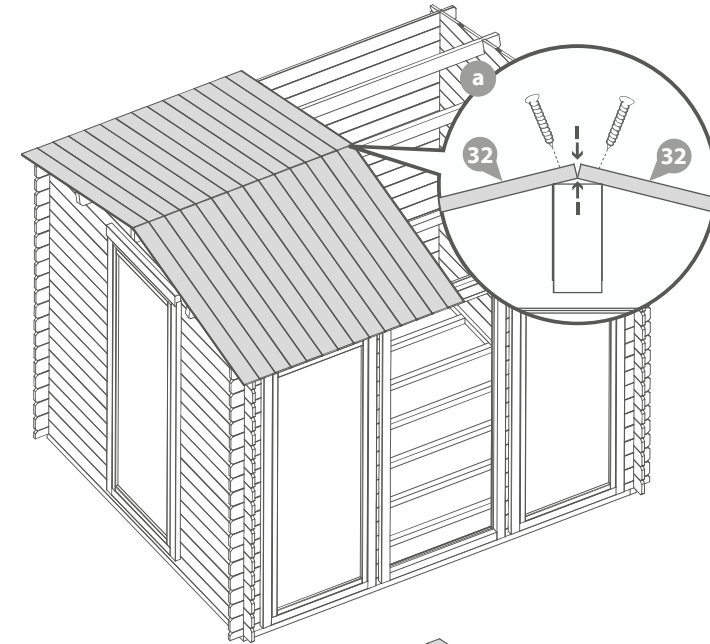
You have been issued with 56 roof boards, but in reality you may only need to use 54.

***Ensure the roof boards meet at the top of the apex and leave an overhang at the bottom.**

b The last board on each side will overhang past the end of the roof purlin; Using a straight edge and a pencil, mark out a line as a guide.

Cut along the pencil mark and remove the excess. Place the cut down boards back onto the roof and secure into place using 3x40mm screws per board.

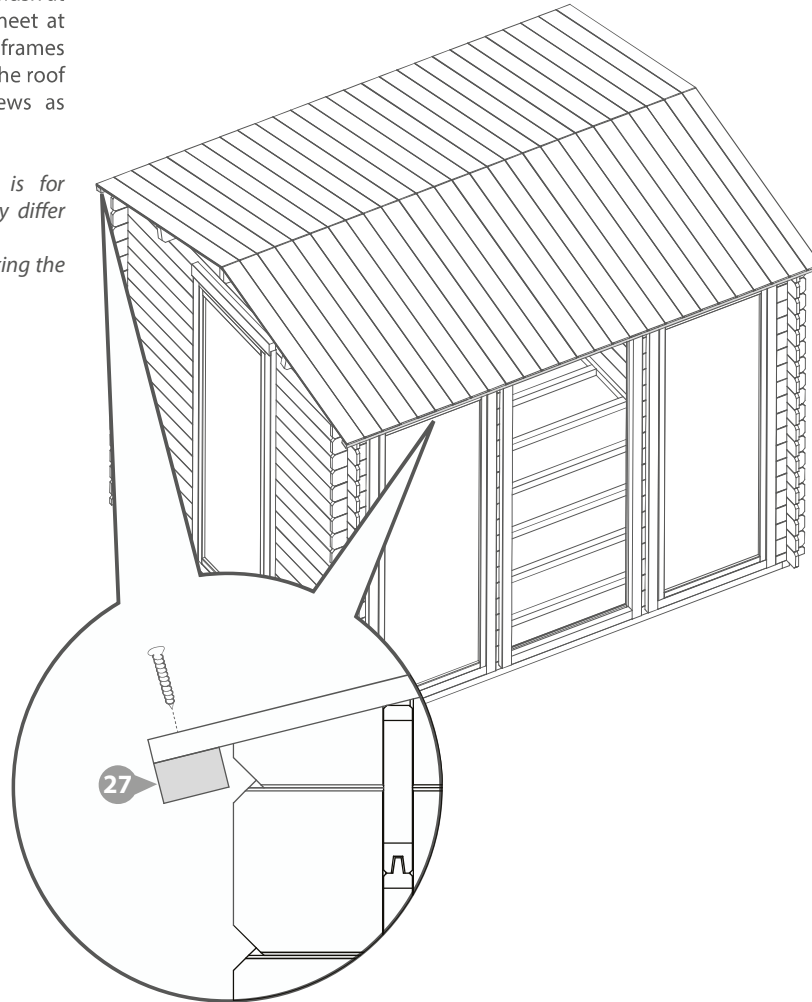
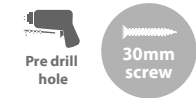
***Please Note:** This image is for illustrative purposes and may differ from your choice in product. Nevertheless the process of cutting and fitting the last roof board(s) is the same.

168 x 40mm Screws**IMPORTANT: Pre-drill before fixing screws.**

Step 18**Parts Needed - No. 27 QTY 2**

Ensuring the roof boards are flush at the overhanging side and meet at the apex, fix the eaves frames (**No.27**) to the underside of the roof boards using 9x30mm screws as shown in the illustration

***Please Note:** This image is for illustrative purposes and may differ from your choice in product. Nevertheless the process of fixing the eaves frames is the same.

18x30mm Screws

IMPORTANT: Pre-drill before fixing screws.

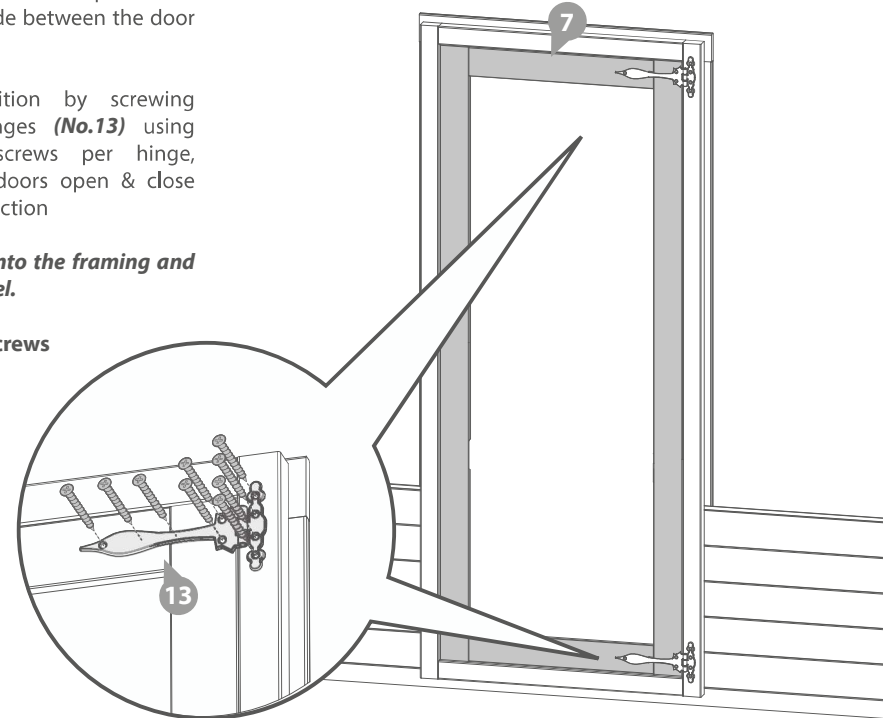
Step 19**Parts Needed - No. 7 QTY 1
No. 13 QTY 2**

Once the roof is fixed, place the door (**No.7**) onto a flat surface and fix 2x T-hinges (**No.13**) to each door using 5x30mm black screws per hinge.

Locate the doors into the door frame on the cabin, ensuring there is equal spacing on each side between the door and door frame.

Secure into position by screwing through the T-hinges (**No.13**) using 4x30mm black screws per hinge, making sure the doors open & close freely without restriction

***Ensure to screw into the framing and not into the channel.**

18x30mm Black Screws

Step 20

Parts Needed - No. 14 QTY 1
No. 15 QTY 1
No. 16 QTY 1

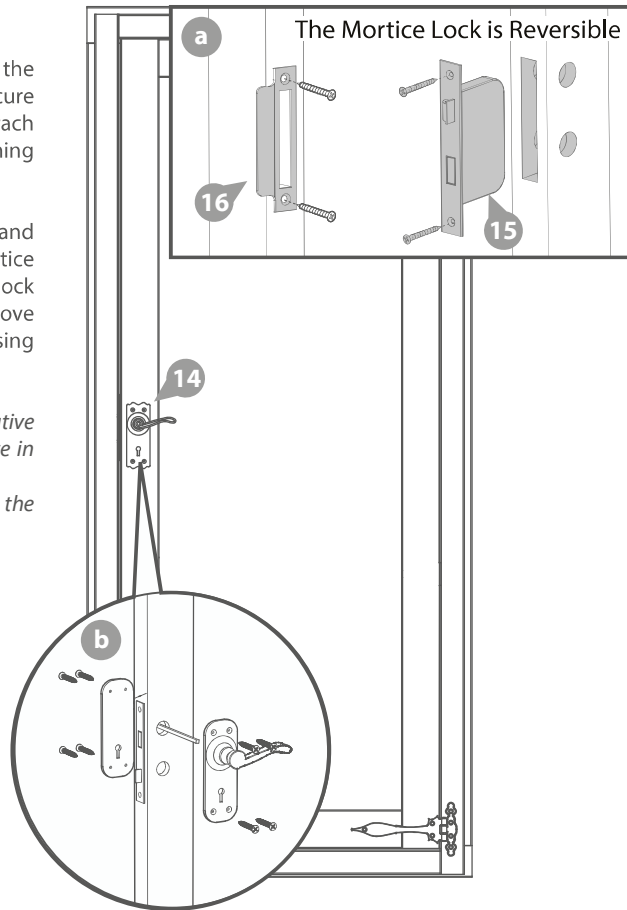
IMPORTANT: Pre-drill before fixing screws.

a Fit the Mortice Lock (**No. 15**) into the recess in the glazed door (**No. 1**) and secure using the 2x30mm screws provided. Attach the Key Plate (**No. 16**) to the door framing with 2x30mm screws.

b Fit the door handles (**No. 14**) and connect with the metal bar to the mortice lock using 8x30mm screws. Ensure the lock mechanism closes correctly. If not, remove the lock and turn the catch around using the small grub screw.

***Please note:** This image is for illustrative purposes and may differ from your choice in product (**regarding ironmongery**). Nevertheless the process of fixing to the door(s) is the same.

8x30mm Black Screws
4x30mm Screws



30mm screw

30mm screw

Step 21

Parts Needed - No. 33 QTY 26

Place the first floor board (**No. 33**) inside the building flush to the log board on one side. Continue adding the floor boards (*internally*) making sure to interlock each individual board.

You have been issued with 26 floor boards, but in reality you may only need to use 25.

***Do NOT secure the boards until the last board has been measured and cut.**

Following the same method outlined previously measure the gap between the bottom of the tongue (**on the last board placed**) and the log board.

Using a straight edge mark out the measurement onto the last floor board (**No. 33**) and cut along the length removing the excess.

****Please note:** Mark the final board 2mm under the measurement; This will allow the timber to expand and contract correctly.

Once all the floor boards are in position secure each board into position using 8x40mm screws.

*****Please Note:** Ensure to screw through each of the floor boards into the floor bearers.

208 x 40mm Screws



*Cut to fit

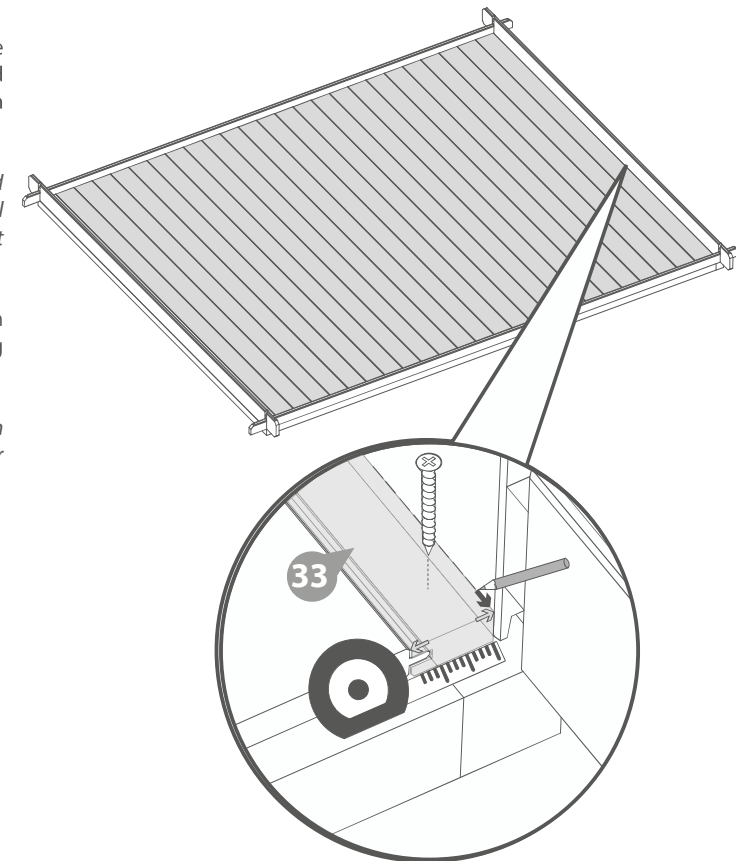
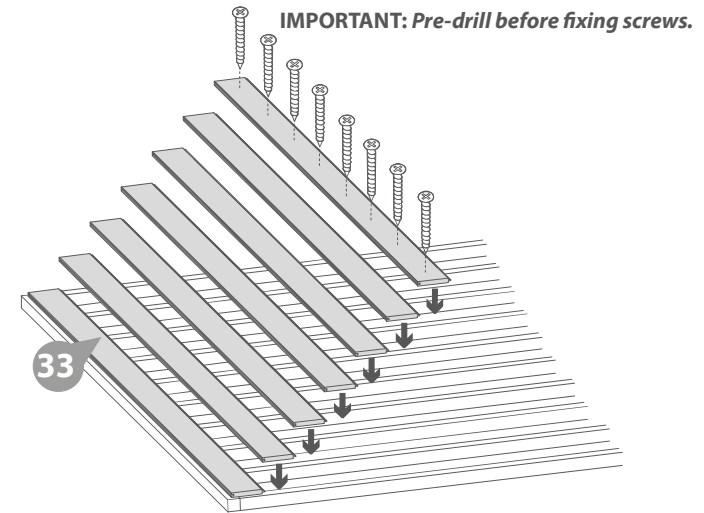


Pre drill hole



40mm screw

IMPORTANT: Pre-drill before fixing screws.



Step 22

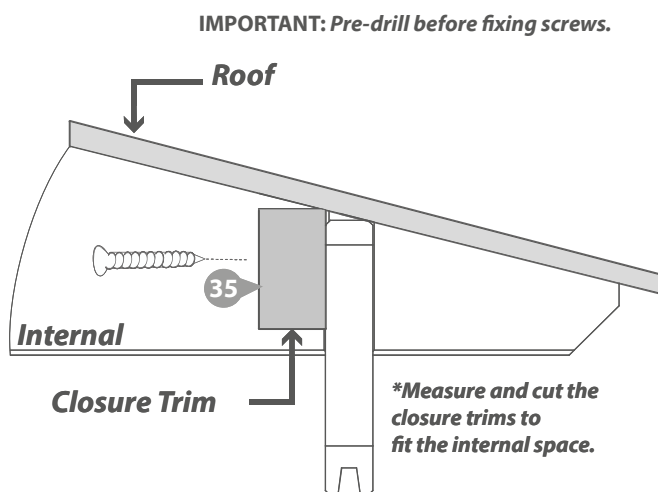
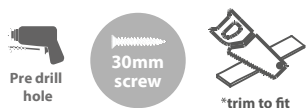
Parts needed - No. 35 QTY 6

Inside the building place the closure trim (**No. 35**) against the boarding and align with the roof as shown in the illustration.

***Measure and cut the closure trims to fit the internal space.**

Once in position fix each trim into place by pre drilling a pilot hole and using 6x30mm screws per trim, equally spacing them along the face of the board.

36x30mm Screws



Step 23

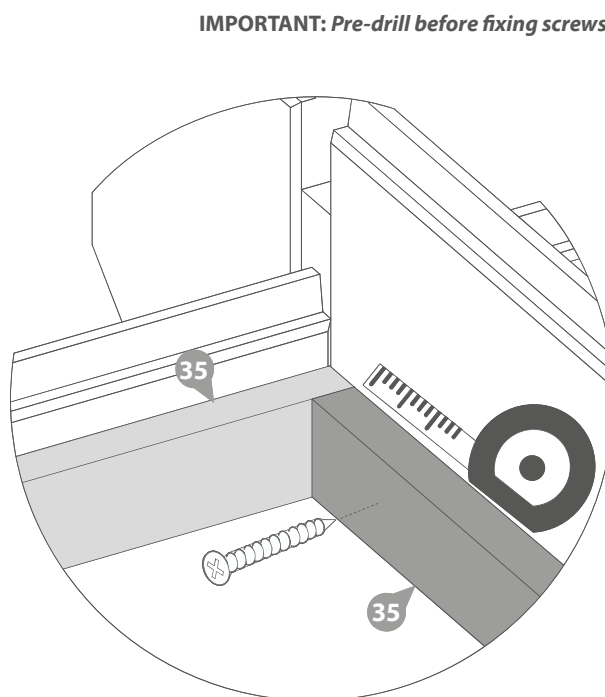
Parts needed - No. 35 QTY 5

Once the floor has been laid arrange the closure trim (**No. 35**) around the outside edge of floor (**internally**), measure and cut down accordingly to best match the internal space.

Secure each trim section into place using 6x30mm spaced equally along the board as shown in the illustration.

***Do NOT fix the closure trim to the floor boards.**

30x30mm Screws



Step 24

Parts needed - No. 37

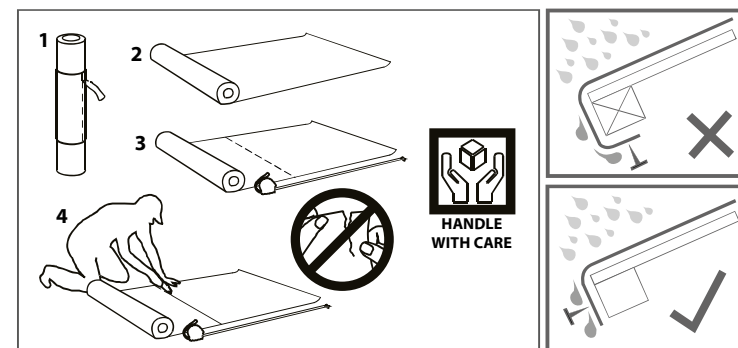
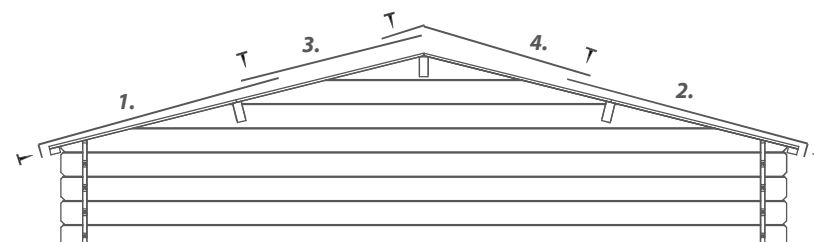
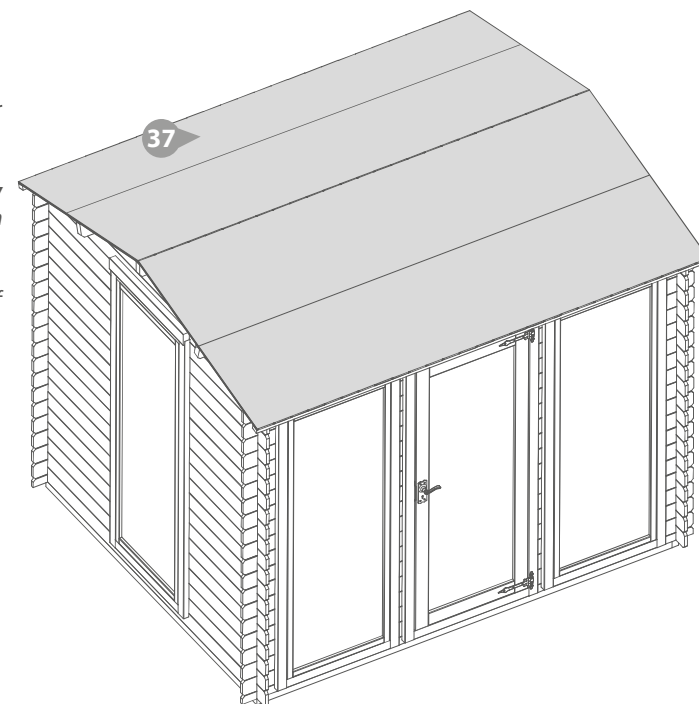
Cut the felt into four strips of: **3100mm (L) X 1000mm (W)** and lay onto the roof in the order shown in the illustration.

***Ensure there is approximately 50mm of overhanging felt each side.**

Once the felt is laid out fix to the roof using felt tacks at 100mm intervals.

***Felt size: 3100mm x 1000mm**

186x Felt Tacks



Step 25

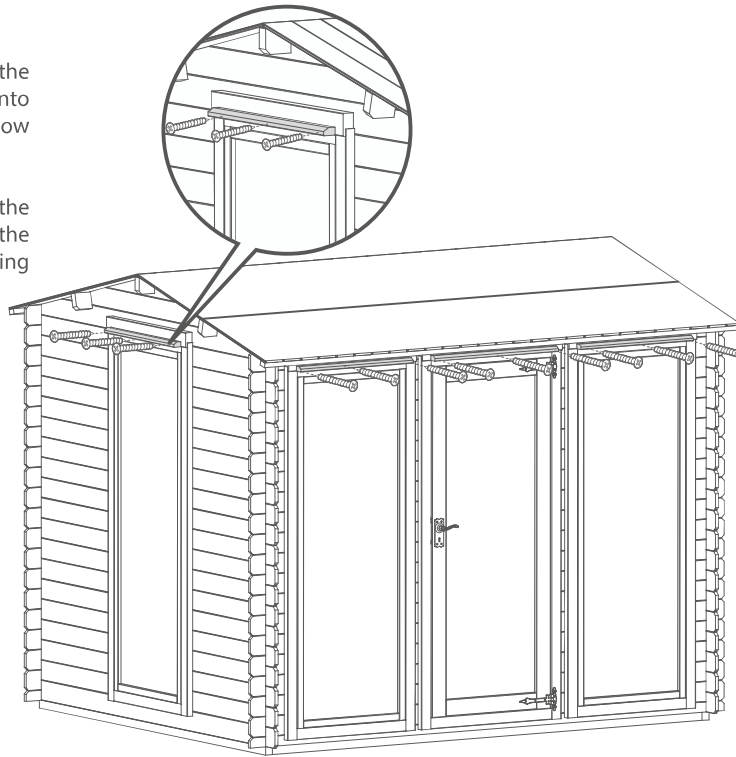
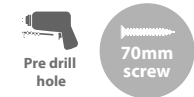
**Parts Needed: No. 6 QTY 3
No. 12 QTY 1**

IMPORTANT: Pre-drill before fixing screws.

Attach the Rain Guards (**No. 6**) to the window frame, fixing in place onto the framing above each window using 3x70mm screws per guard.

Attach the Rain Guard (**No. 12**) to the door frame, fixing in place onto the framing above the Door using 3x70mm screws.

12x70mm Screws.



Step 26

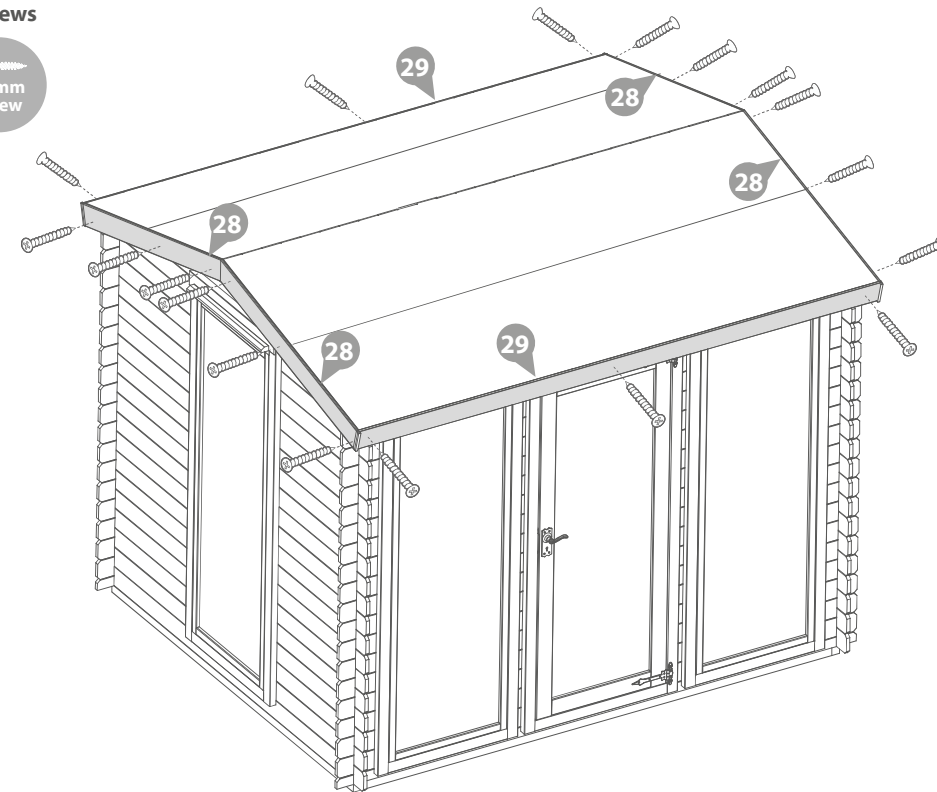
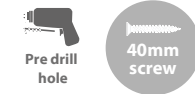
**Parts Needed - No. 28 QTY 4
No. 29 QTY 2**

IMPORTANT: Pre-drill before fixing screws.

Align the fascias (**No's. 28 & 29**) with the roof and fix into place using 3x40mm screws per fascia, making sure to screw through the fascia into the roof purlins and eaves frame.

***Ensure the angled cuts meet at the top of the apex.**

18x40mm Screws



Step 27

Parts needed - No. 34 QTY 8

IMPORTANT: Pre-drill before fixing screws.

Arrange the storm braces (**No. 34**) around the building (**internally**). Place 2x storm braces per side fixing into place using 2x 60mm bolts per brace making sure the washer & nut are tightened from the outside of the building.

***Ensure the storm braces are secured at the highest point possible on each side.**

The storm braces will need to be altered during the buildings life as the moisture content within the log boards changes. The boards will expand during periods of high moisture (winter) and shrink during periods of low moisture (summer).

****Storm braces will help your building expand and contract properly.**

*****Important: Ensure each bolt is tightened using a washer so as not to damage the log boards.**

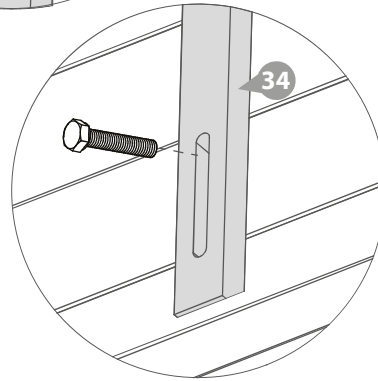
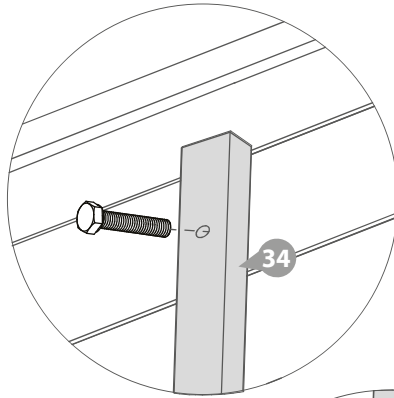
16x60mm Bolt Sets



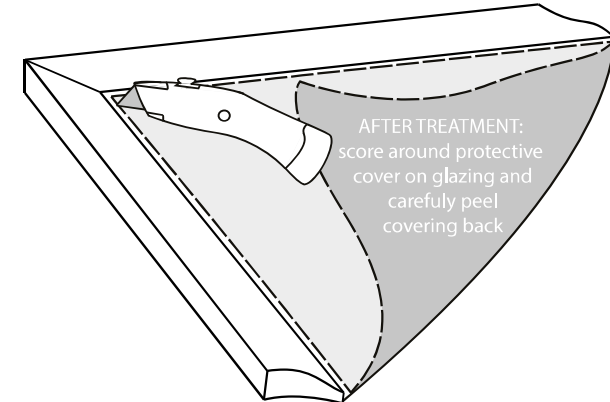
Pre drill hole



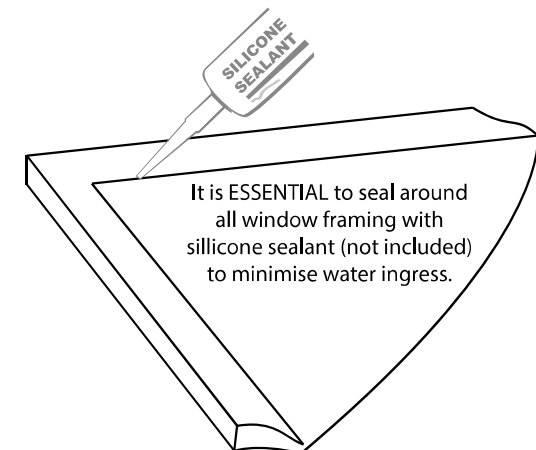
60mm bolt



It is ESSENTIAL that you apply wood treatment immediately after the building has been assembled.



AFTER TREATMENT:
score around protective cover on glazing and carefully peel covering back



It is ESSENTIAL to seal around all window framing with silicone sealant (not included) to minimise water ingress.