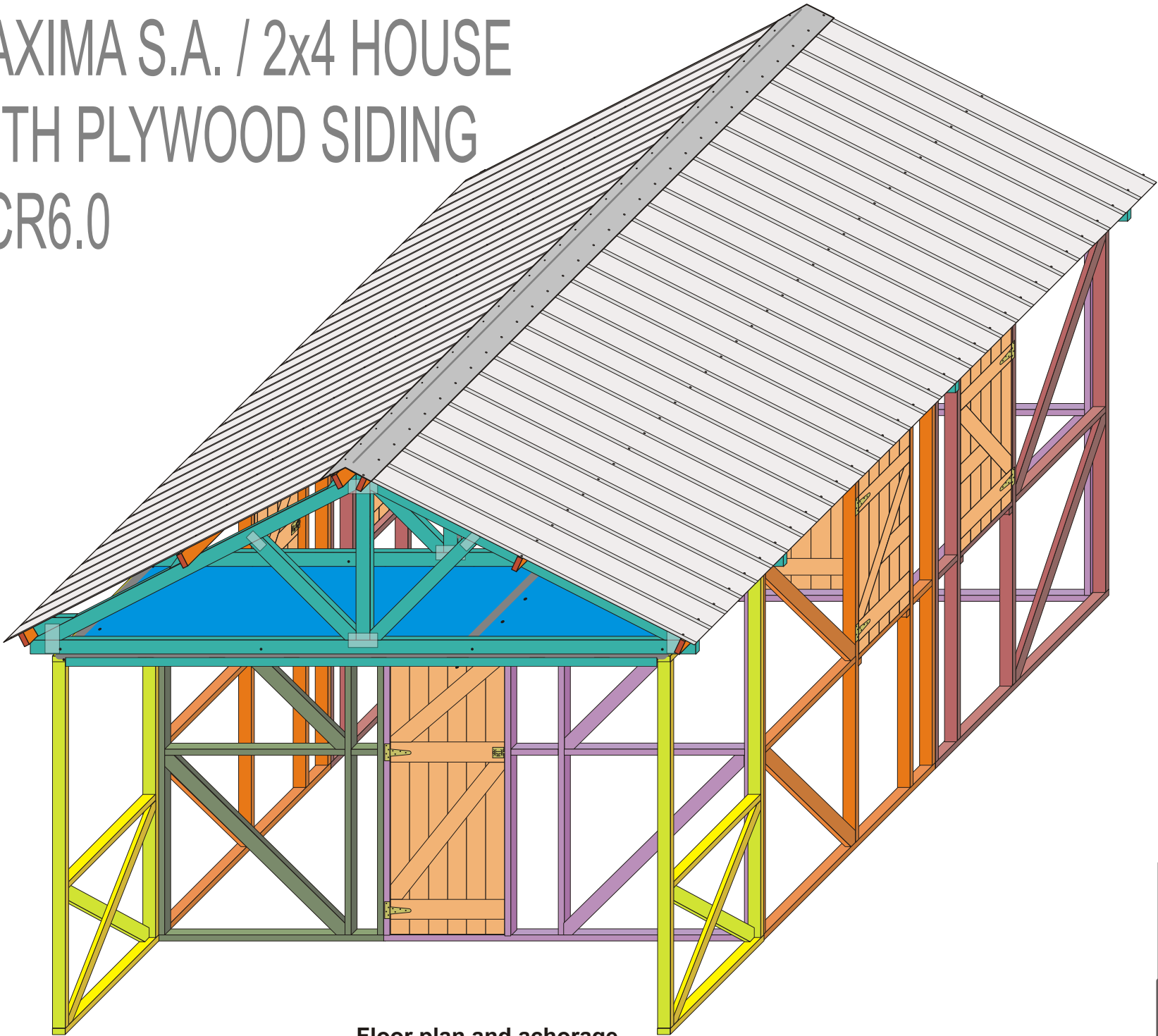
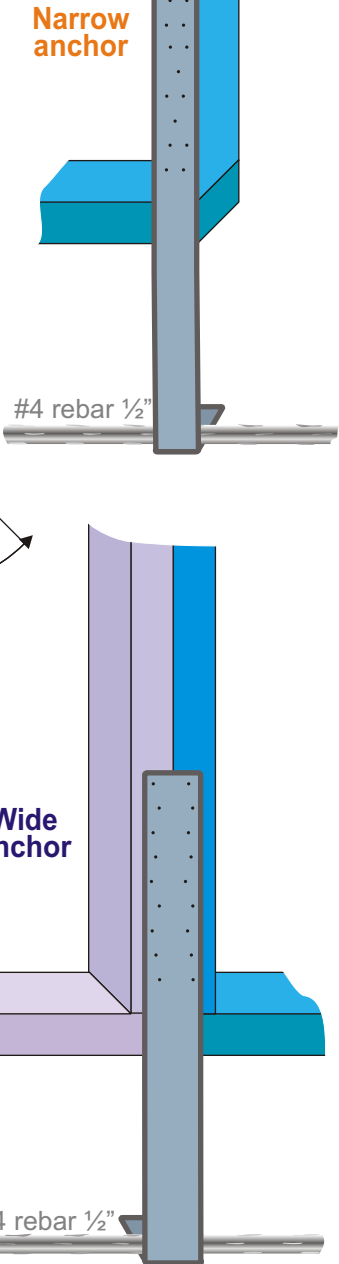
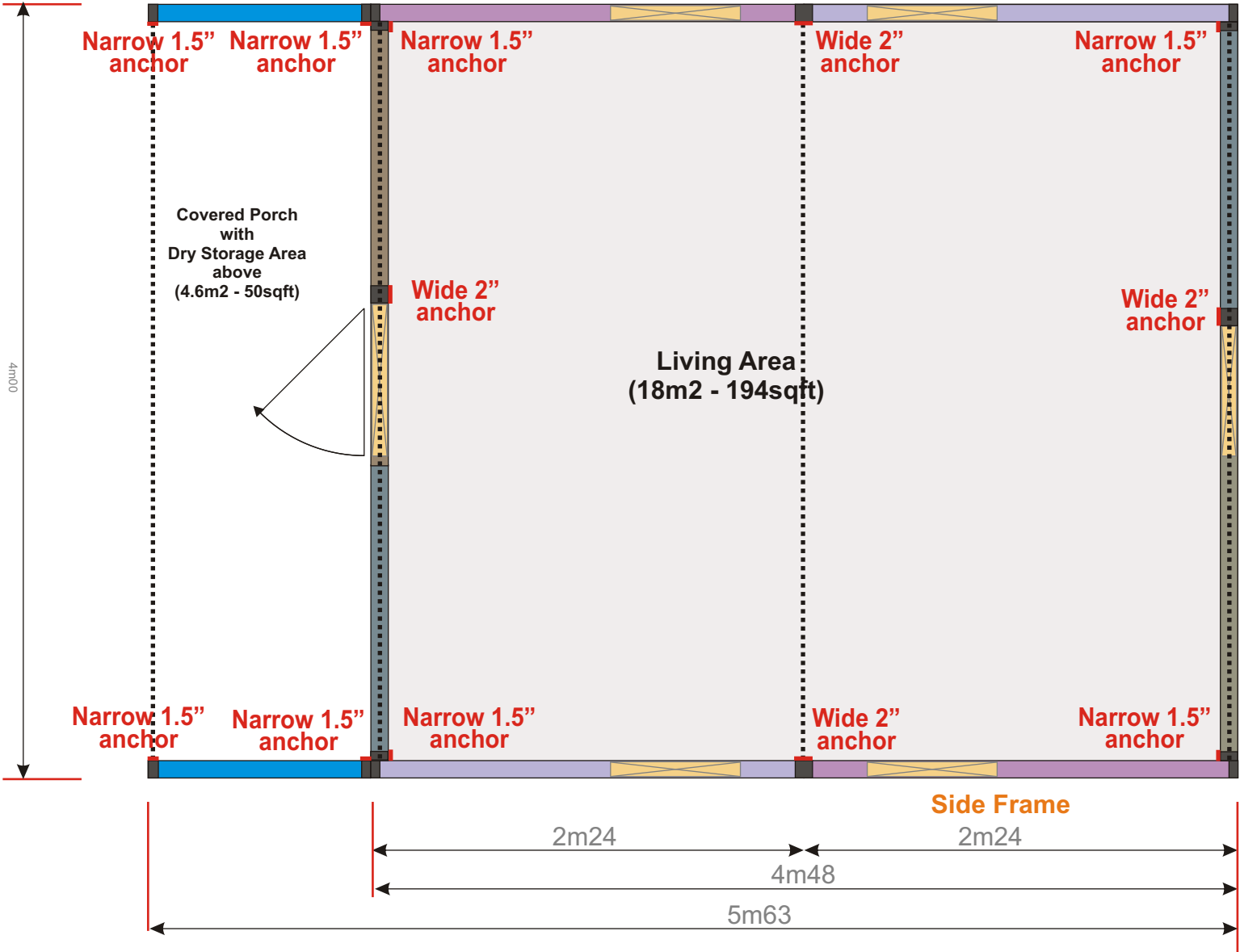


MAXIMA S.A. / 2x4 HOUSE WITH PLYWOOD SIDING v CR6.0



Floor plan and achorage



Anchors	Qty	Nails each 8D 2.5" HDG	Nails Total
Wide (2") Anchor	4	18	72
Narrow (1 1/2") Anchor	8	14	112
			184

Anchors are put in the inside, to not interfere with the cladding.

Erecting the frames, nailing pattern.

2 Frame connection use
12 nails 16D (3.5") HDG

2 Frame connection use
12 nails 16D (3.5") HDG

2 Frame connection use
12 nails 16D (3.5") HDG

2 Frame connection use
12nails 16D (3.5") HDG

2 Frame connection use
12 nails 16D (3.5") HDG

3 Frame connection use
36 nails 16D (3.5") HDG

3 Frame connection use
36 nails 16D (3.5") HDG

3 Frame connection use
36 nails 16D (3.5") HDG

Side wall
Front door wall
Porch frame

2 Frame connection use
12 nails 16D (3.5") HDG

2 Frame connection use
12 nails 16D (3.5") HDG

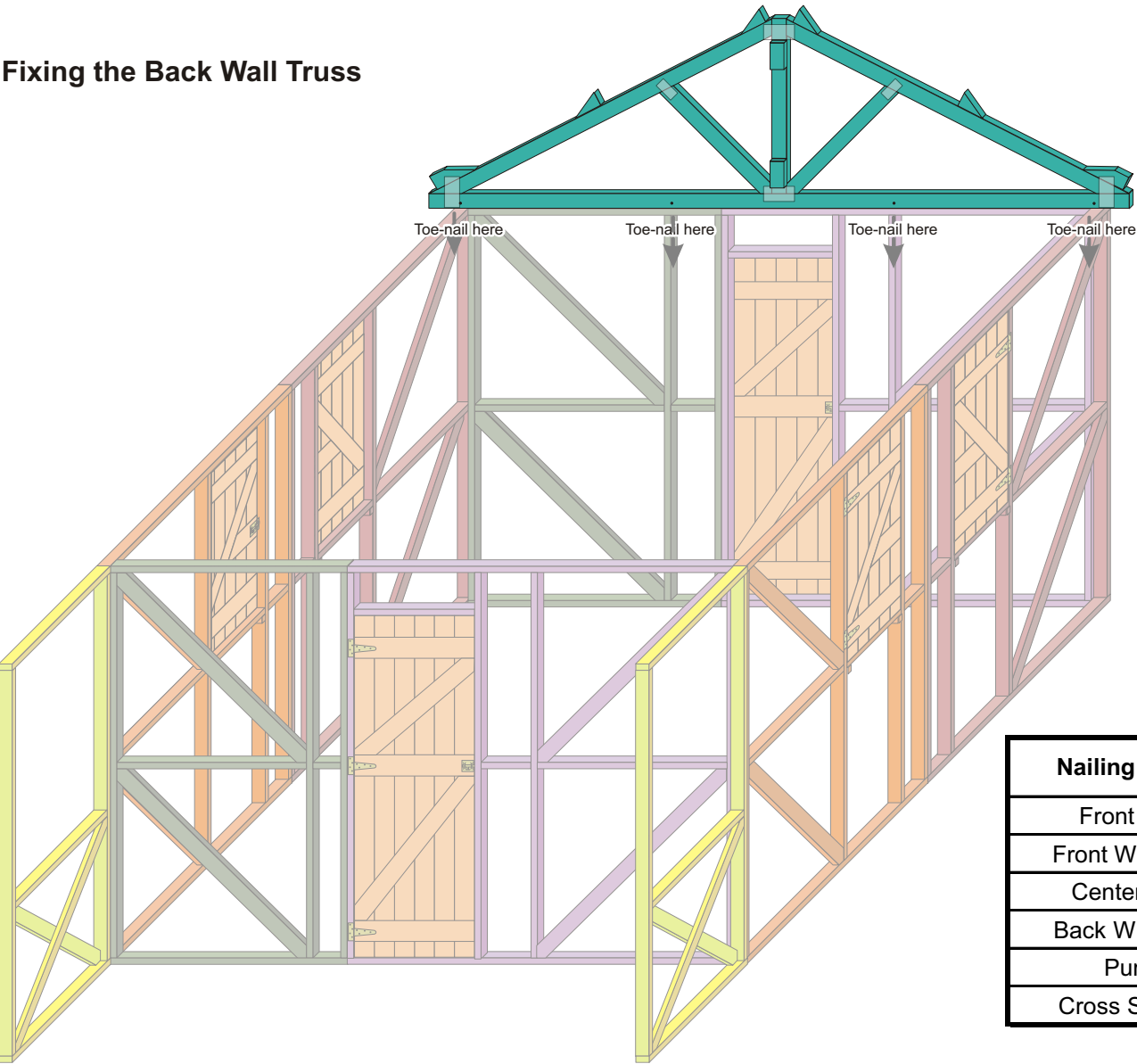
3 Frame connection use
36 nails 16D (3.5") HDG

Nailing Pattern	Qty	Nails each 16D 3.5" HDG	Nails Total
Each frame to be connected	10	12	120

After the location is clean, level, and compacted (Depending on type of foundation)

- Support the frames with blocks, 2x4's or other spacers, depending on what is available and the type of foundation.
- Start joining the frames together in a corner, using 12 3.5" nails per length, spaced at a bout 8" between.
- Make sure and check the house is build level and square frequently.
- Note how the frames join on the porch corners.

Fixing the Back Wall Truss

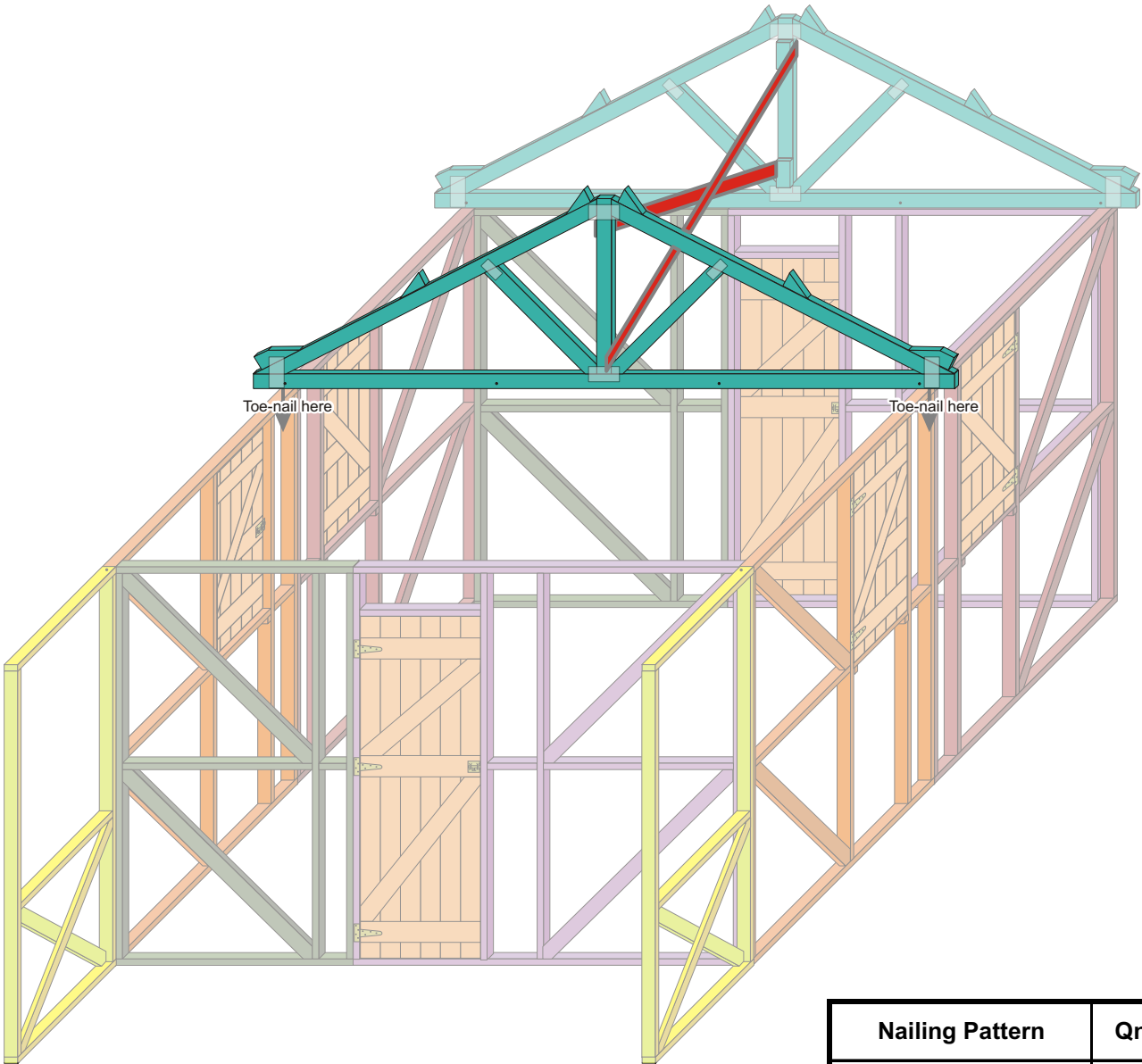


Fixing the Back Wall truss

- The Back Wall Truss is one with the 2 blocks attached to the center member.
- The Back Wall Truss stands above the back wall frames.
- Put it in place and toe-nail into the top of these side panels using 1 nail of 3.5" HDG on each side in the locations indicated.

Nailing Pattern	Qty	Nails each 16D 3.5" HDG	Nails each 8D 2.5" HDG
Front Truss	1	4	
Front Wall Truss	1	8	
Center Truss	1	4	
Back Wall Truss	1	8	
Purlins	6	8	
Cross Supports	4		16
		72	16

Fixing the Center Truss and adding the back - cross support



Fixing the Center truss

- The Center Truss is an open trusses with no extra parts.
- The Center truss stands above where the 2 side panels join
- Put it in place and toe-nail into the top of these side panels using 4 nail of 3.5” HDG to fix it to the top frame.

Fixing the truss cross-supports

- The truss cross supports are 2 planks of 1x4” x 8ft long that are put between the 2 back trusses as indicated.
- On the back wall truss, nail into the extended blocks to avoid splitting of the ends of the planks.
- Use 2 nails of 2.5” HDG per side to nail into the truss.

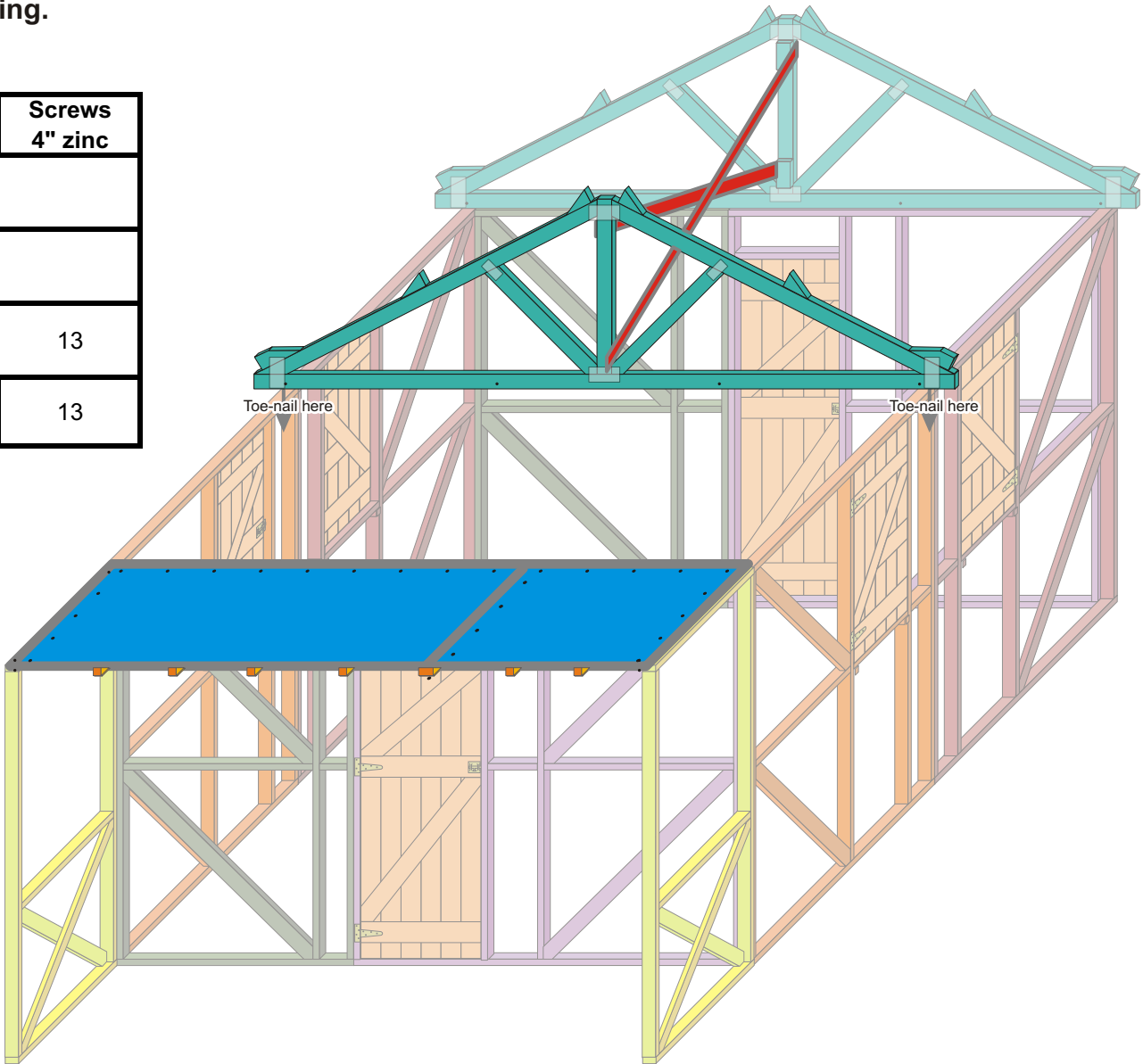
Nailing Pattern	Qty	Nails each 16D 3.5" HDG	Nails each 8D 2.5" HDG
Front Truss	1	4	
Front Wall Truss	1	8	
Center Truss	1	4	
Back Wall Truss	1	8	
Purlins	6	8	
Cross Supports	4		16
		72	16

Putting the Porch ceiling.

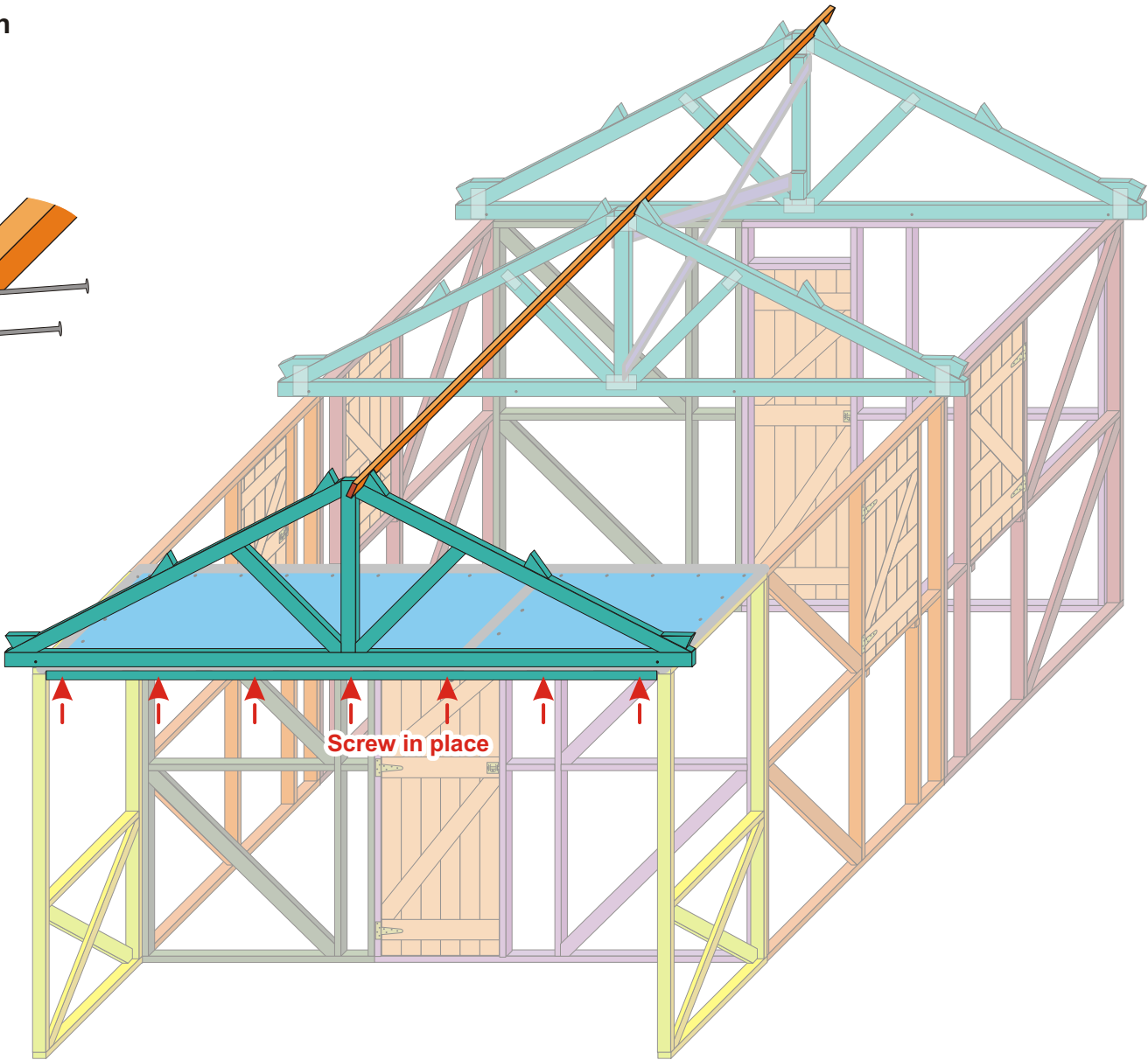
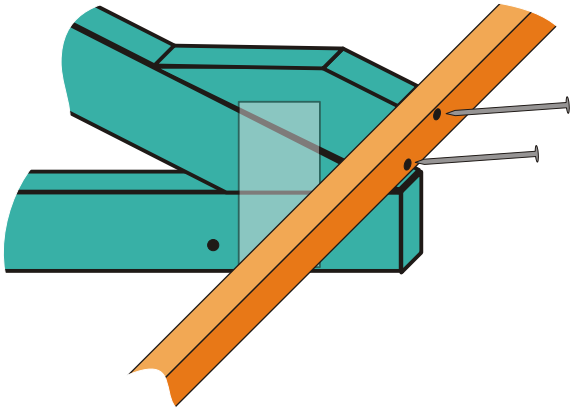
Nailing Pattern	Qty	Nails each 2" HDG	Screws 4" zinc
Long section of Porch Ceiling	1	13	
Short section of Porch Ceiling	1	14	
Front support to fix porch ceiling to truss	1		13
		27	13

The porch ceiling is fixed on top of the Porch panels and front wall - door panels

- Nail with 2” HDG nails at positions shown.
- Put the short porch ceiling panel next to it and nail in place as shown. Support the front center joint while nailing there.
- **Make sure to leave a space wide enough between the bottom supports of the ceiling and the front door wall to fit your siding between, after.**



Fix front truss and stabilize with purlin



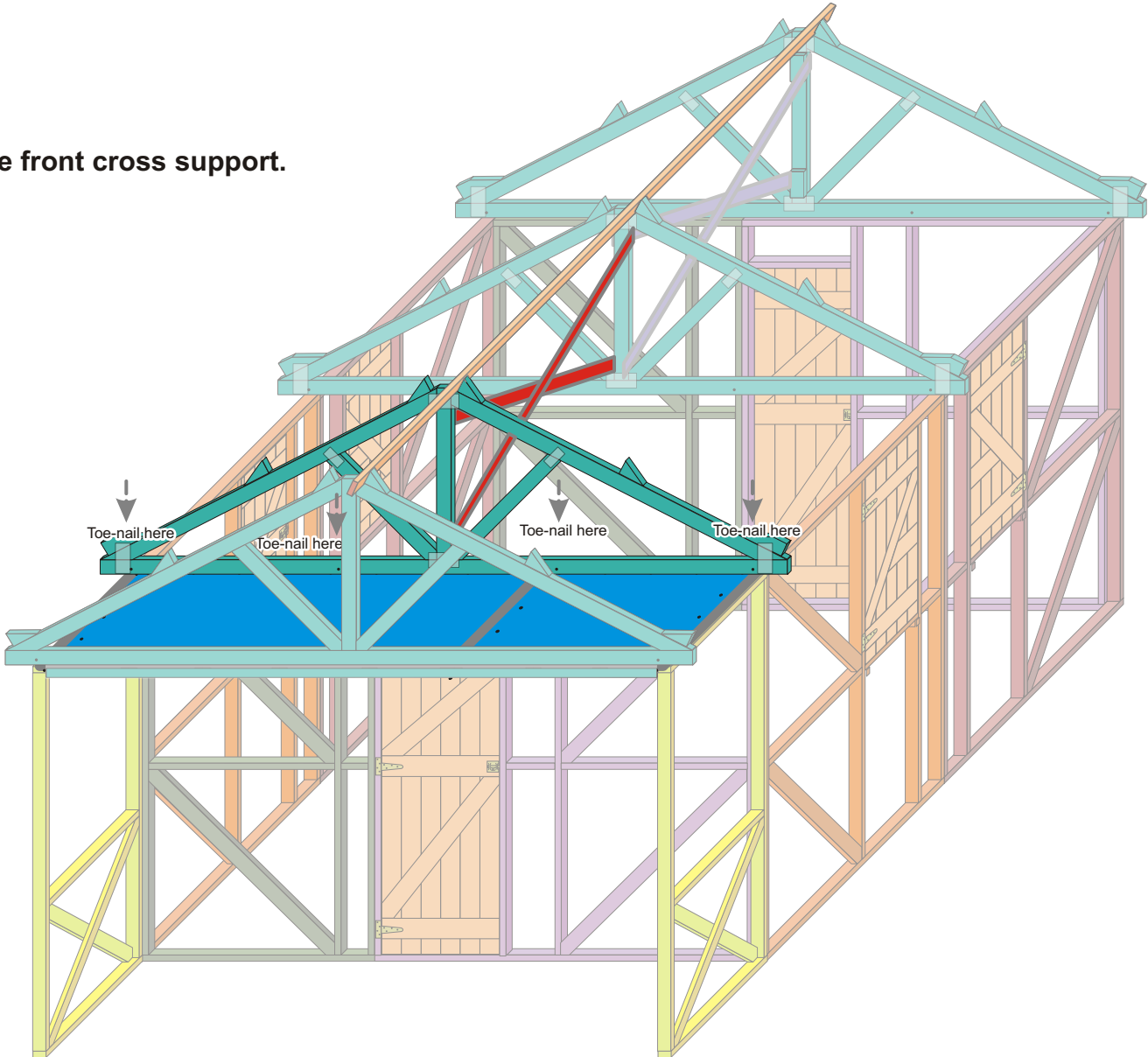
- Put the center purlin and pre-fix it in place using 2 nails of 3.5” HDG in each triangle as shown.
- This purlin sticks out on both same the same length.
- Put up the front truss, straight and plumb in the front of the house. toe-nail with 4 3.5” nails and fix to the center purlin to keep straight.
- Put the ceiling support below the front truss, holding the ceiling between and fix with 13 screws of 4”.

Nailing Pattern	Qty	Nails each 16D 3.5" HDG	Nails each 8D 2.5" HDG
Front Truss	1	4	
Front Wall Truss	1	8	
Center Truss	1	4	
Back Wall Truss	1	8	
Purlins	6	8	
Cross Supports	4		16
		72	16

Fixing the Front Wall Truss, putting the front cross support.

Putting the front wall truss in place.

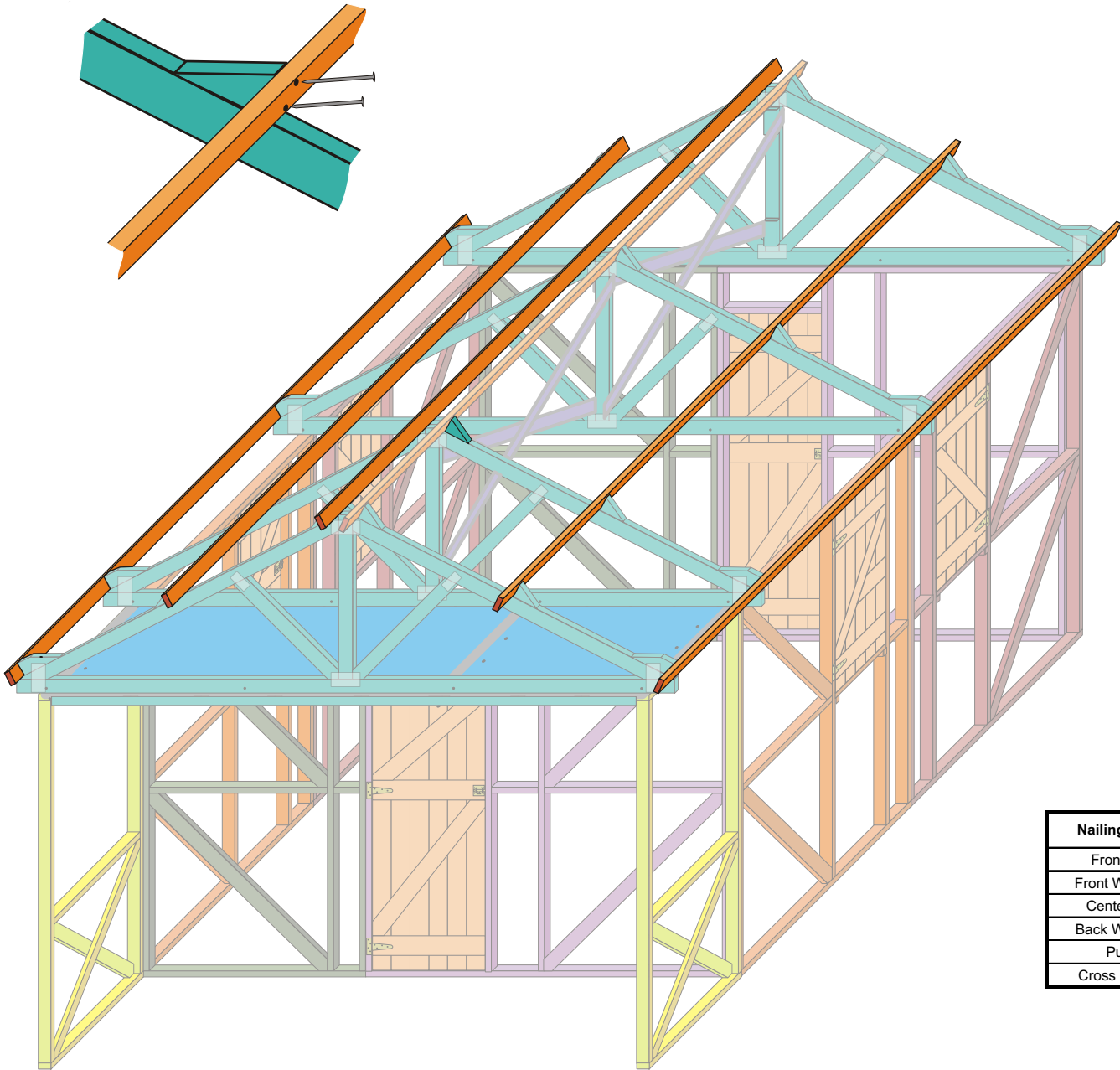
- The front wall truss is an open truss with no extra parts.
- Put the front wall truss above the front wall.
- Use 4 nails of 3.5” HDG to toenail the truss into place.



Fixing the truss cross-supports

- The truss cross supports are 2 planks of 1x4” x 8ft long that are put between the Front wall truss and center truss as indicated.
- Use 2 nails of 2.5” HDG per side to nail into the truss.

Pre-Fix the other 5 purlins

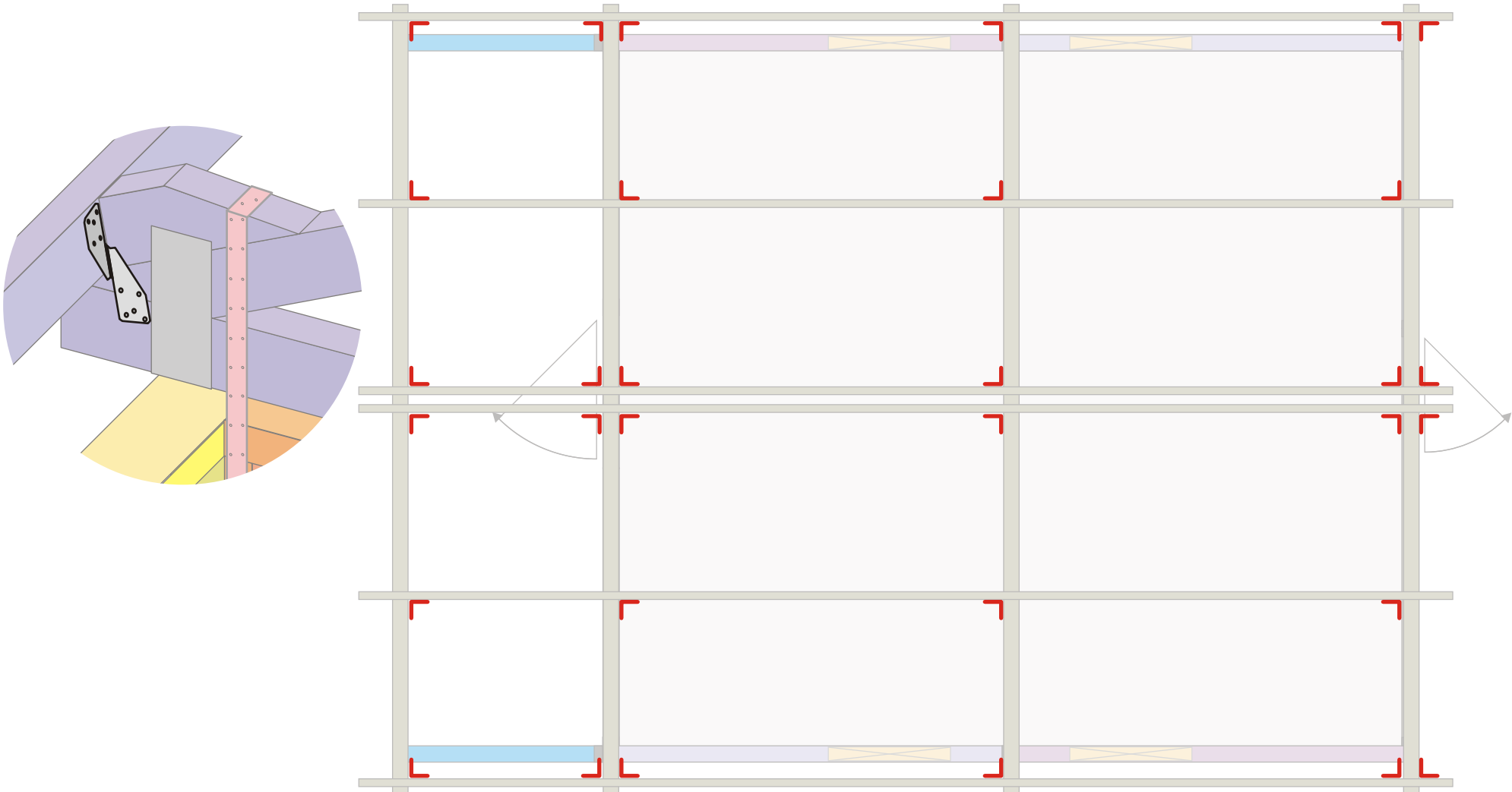


Pre-fix 5 other purlins

- Put in the other purlins and pre-fix them in place using 2 nails of 3.5” HDG in each triangle as shown.
- Align them with the first one in front and back.

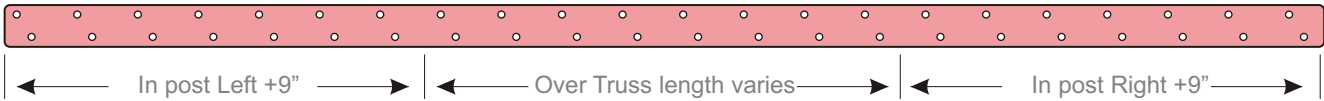
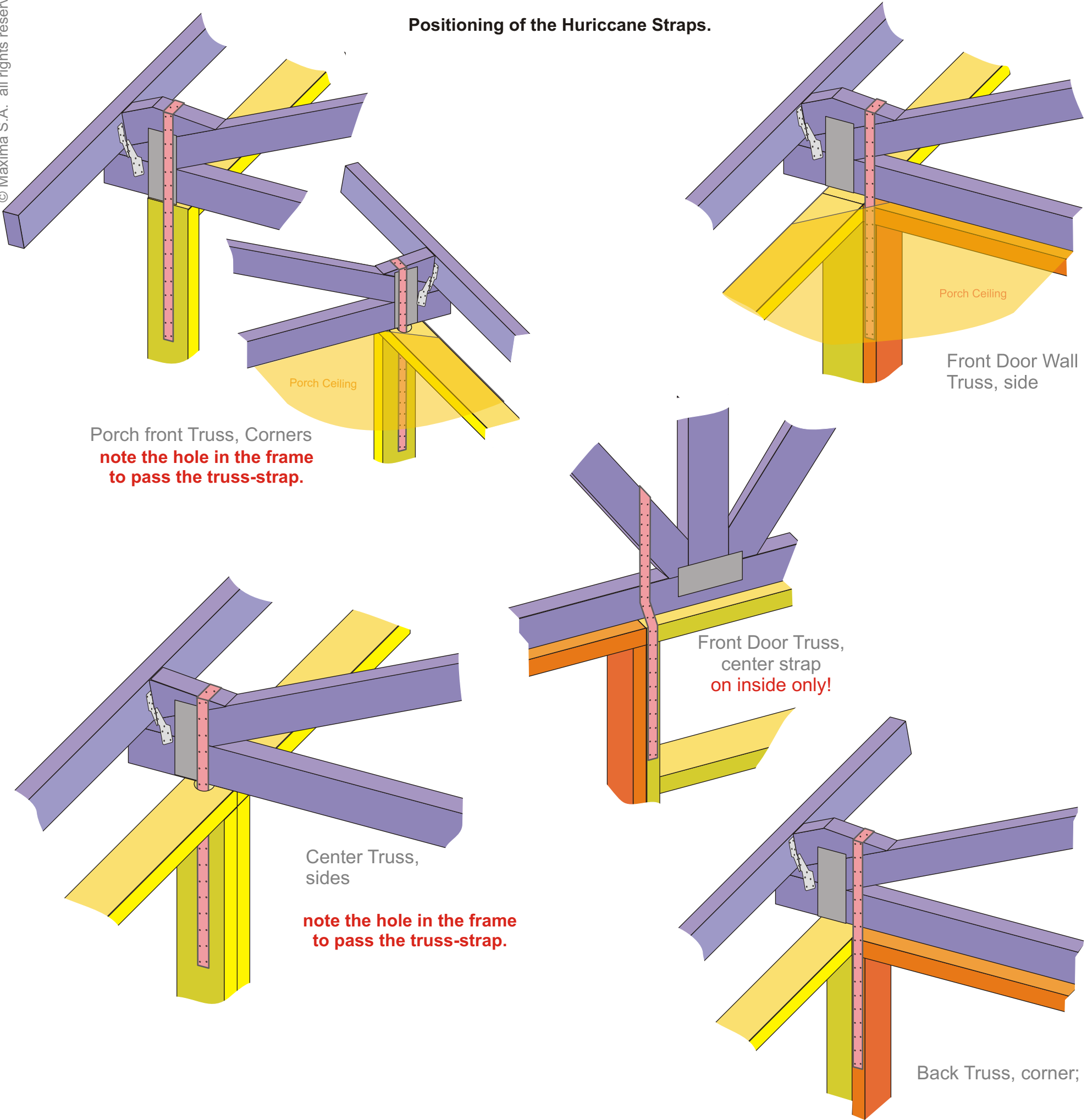
Nailing Pattern	Qty	Nails each 16D 3.5" HDG	Nails each 8D 2.5" HDG
Front Truss	1	4	
Front Wall Truss	1	8	
Center Truss	1	4	
Back Wall Truss	1	8	
Purlins	6	8	
Cross Supports	4		16
		72	16

Positioning of the Truss / Rafter Ties.



Truss / Rafter Ties	Qty	Nails each 8D 1.5" HDG	Nails Total
Reversible Left/Right	32	10	320

Positioning of the Huriccane Straps.



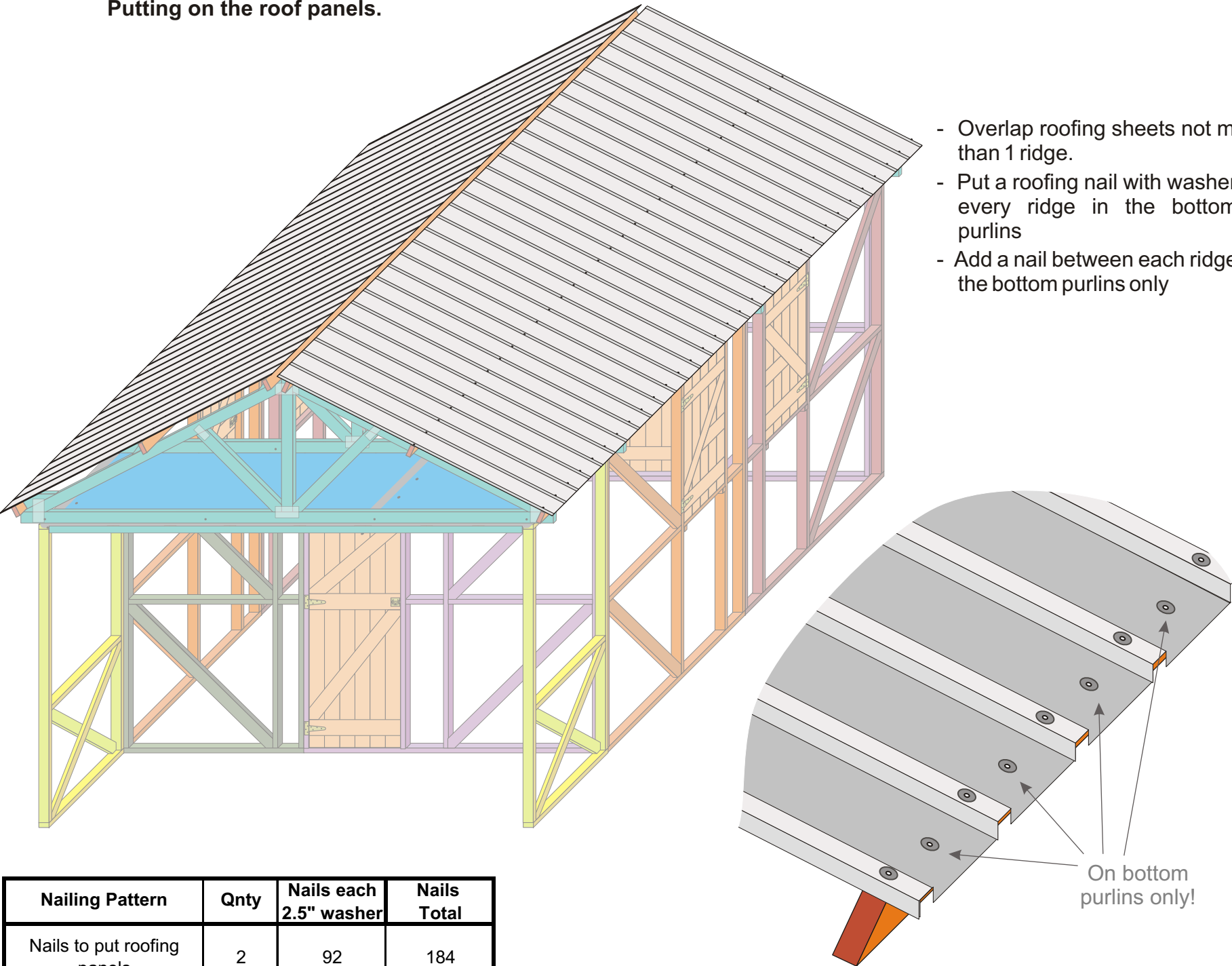
NOT EVERY HOLE GETS A NAIL! RESPECT THE QUANTITIES BELOW!

Position the nails for the best fit and where it is less likely for the wood to split.

Position	Qty	Length		Nails 8D 1.5"	Nails 8D 2.5" HDG
Porch front Truss, Corners	2	130cm	In Post Left		11
			In Post Right		11
			In Truss	9	
Front Door Wall Truss, Side	2	130cm	In Post Left		11
			In Post Right		11
			In Truss	9	
Front & Back Door Wall Truss,	2	80cm	In Post Inside		9
			In Truss	9	
Center Truss, Side	2	130cm	In Post Left		11
			In Post Right		11
			In Truss	4	
Back Door Truss, Corner	2	130cm	In Post Left		11
			In Post Right		11
			In Truss	9	
				80	194

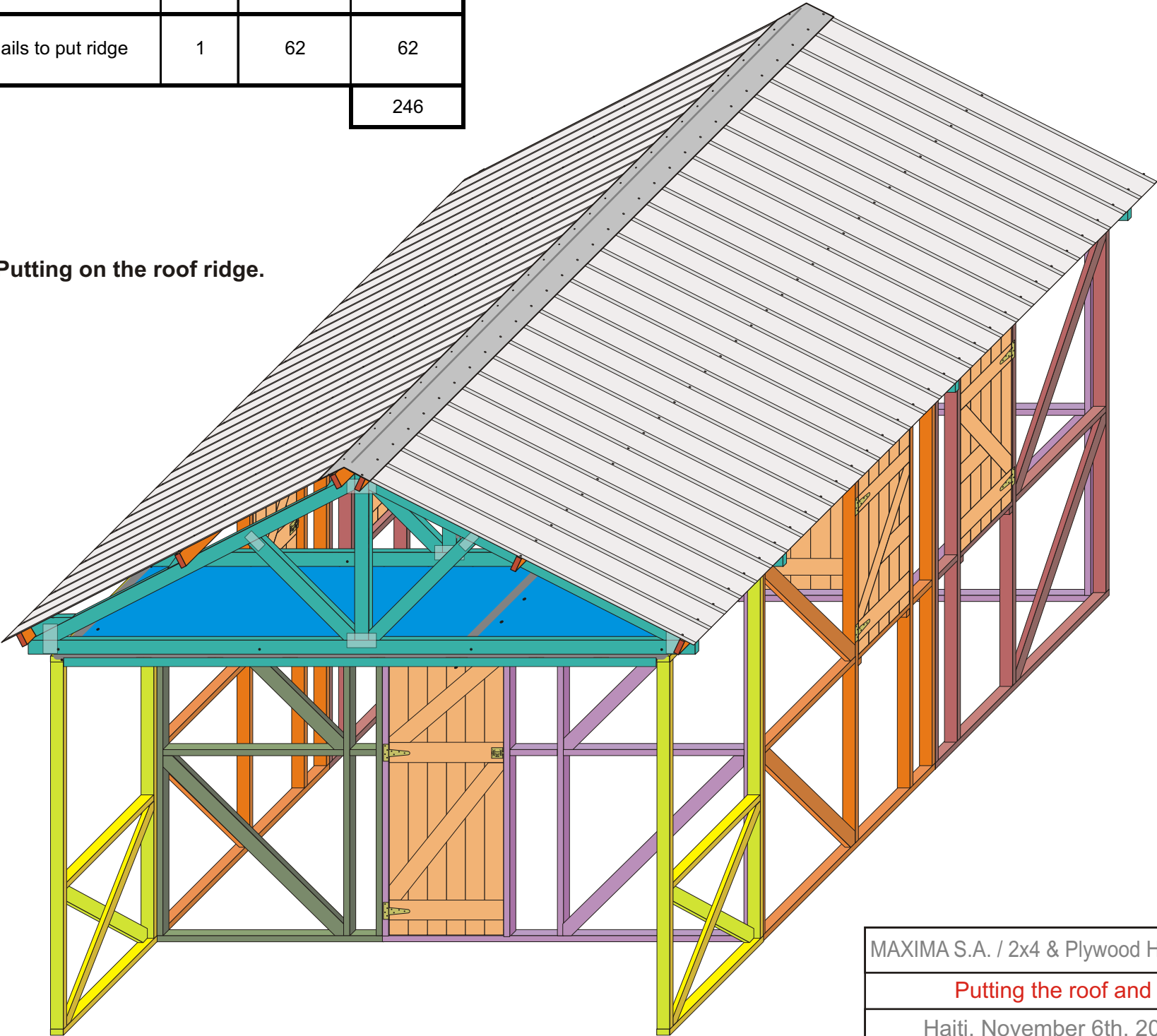
Putting on the roof panels.

- Overlap roofing sheets not more than 1 ridge.
- Put a roofing nail with washer on every ridge in the bottom 2 purlins
- Add a nail between each ridge on the bottom purlins only

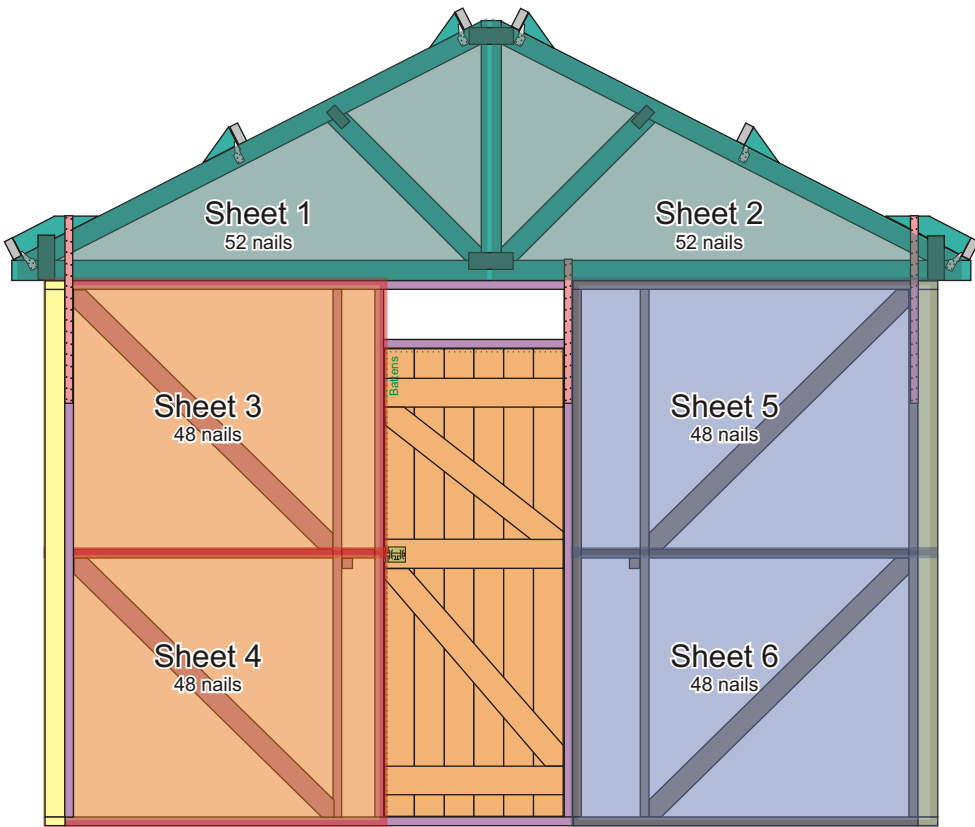


Nailing Pattern	Qty	Nails each 2.5" washer	Nails Total
Nails to put roofing panels	2	92	184
Nails to put ridge	1	62	62
			246

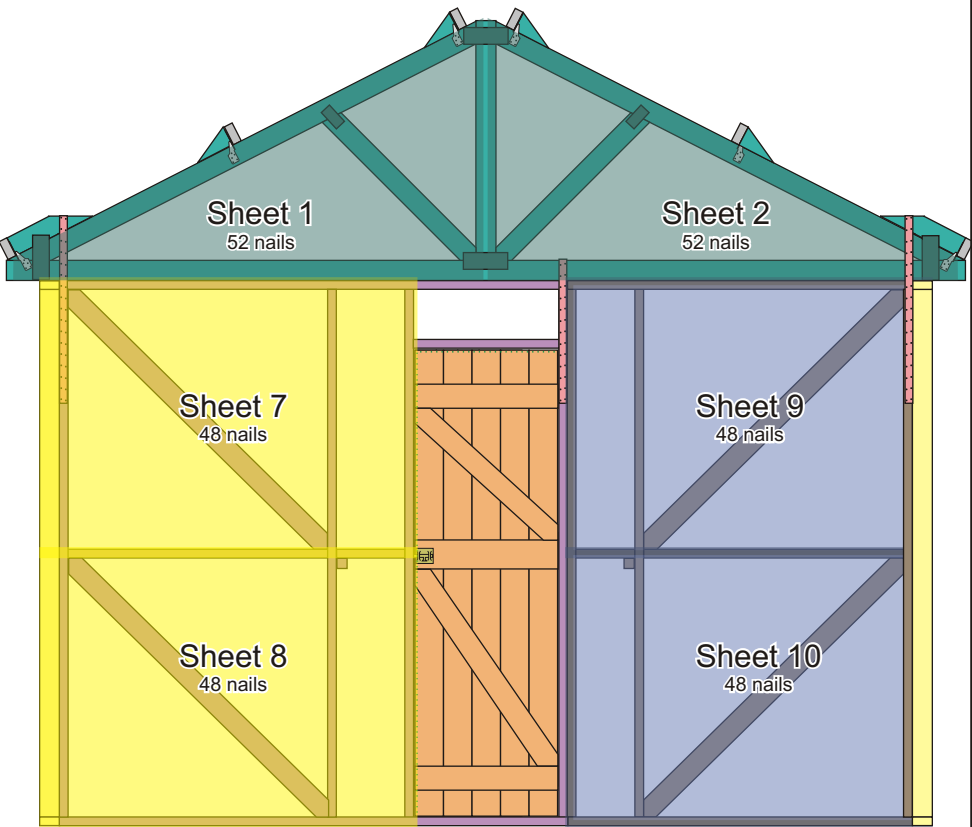
Putting on the roof ridge.



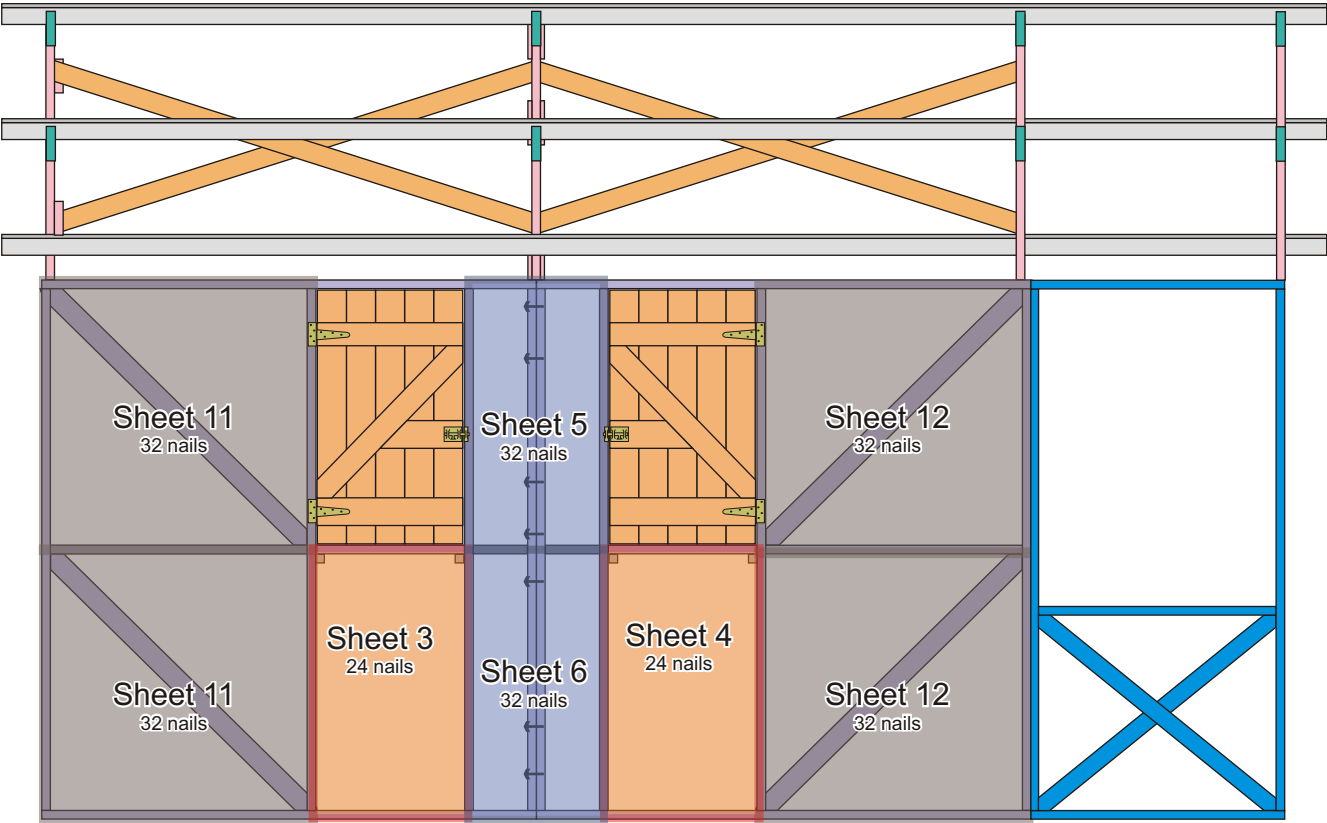
Cladding



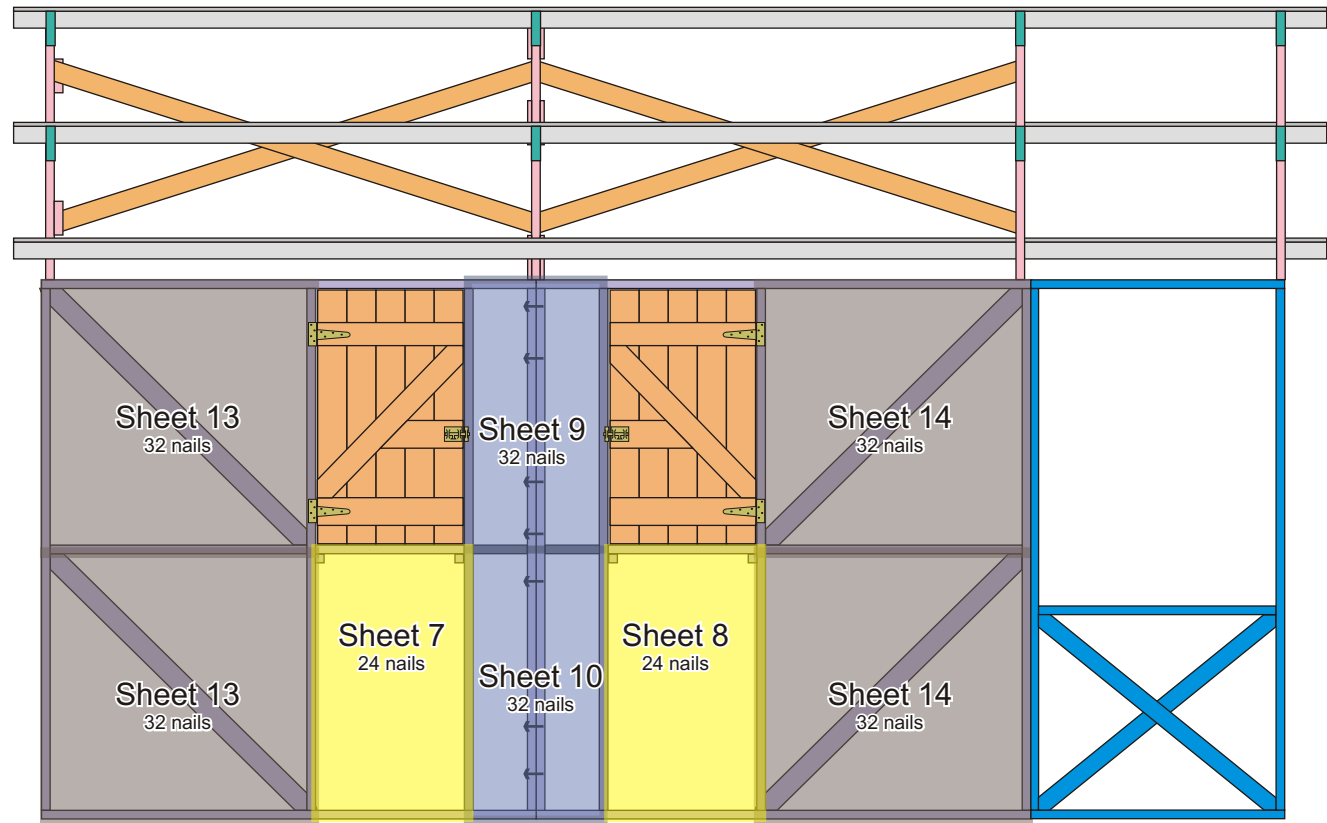
Front



Back



Left side



Right side

- Frames are build to put sheets front center stud to center stud.
- Cladding is nailed at 6" spacing.
- Front and back trusses can be delivered with plywood already attached. In this case 200 nails are delivered less.

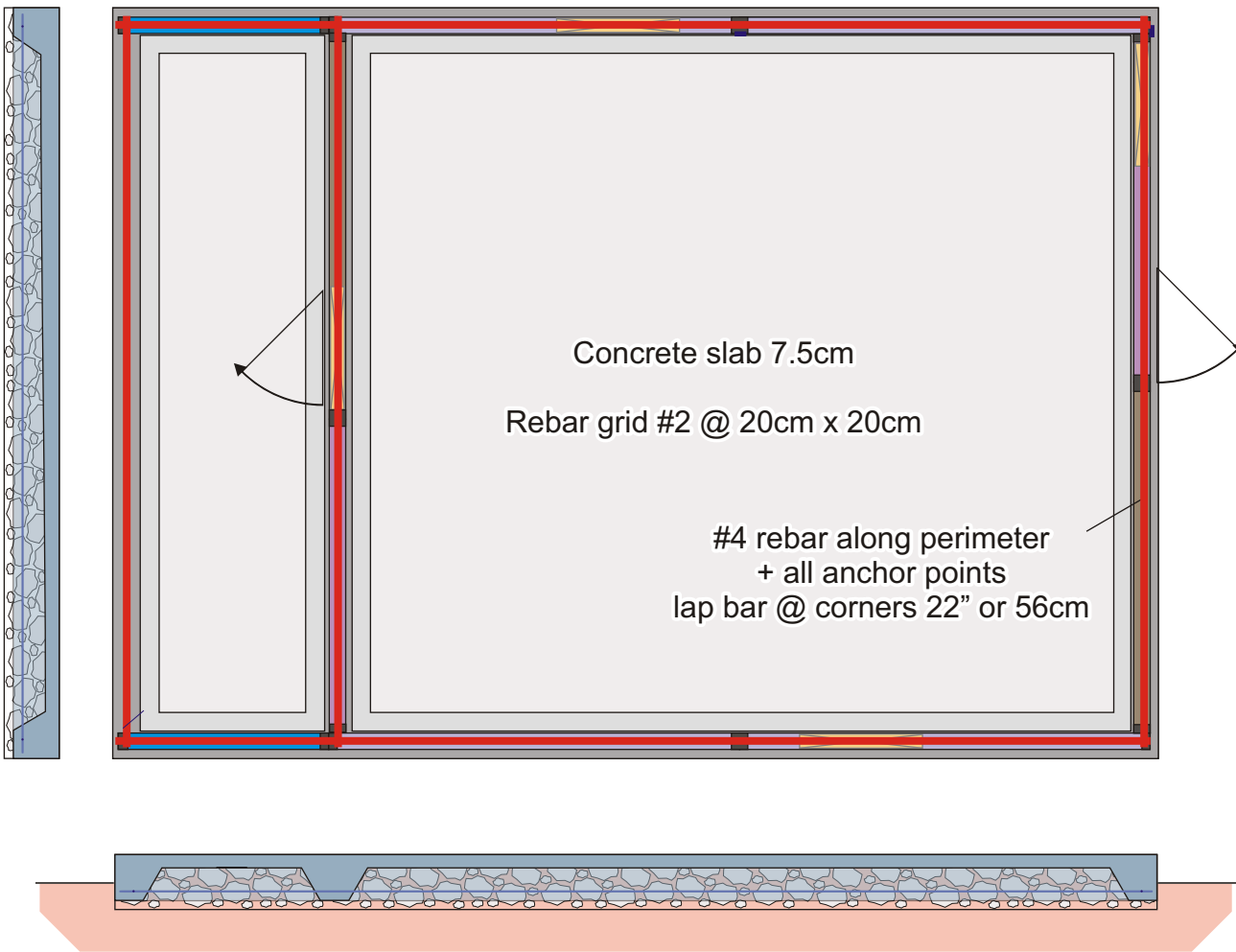
Nailing Pattern	Nails each 2" HDG	Nails Total
Sheet 1	104	104
Sheet 2	104	104
Sheet 3	72	72
Sheet 4	72	72
Sheet 5	80	80
Sheet 6	80	80
Sheet 7	72	72
Sheet 8	72	72
Sheet 9	80	80
Sheet 10	80	80
Sheet 11	64	64
Sheet 12	64	64
Sheet 13	64	64
Sheet 14	64	64
		1072

Complete Material List for Installation	
10	Wall Frames
4	Trusses
6	Purlins
4	Cross supports
8	Narrow 1.5" Anchors
4	Wide 2" Anchors
12.4	Linear meters (net) of 26Ga roofing sheets 250-260cm long
6.2	Linear meters (net) of 26Ga ridge, 25cmx25xm
8	Hurricane Straps 130 cm
2	Hurricane Straps 80 cm
32	Hurricane Ties
14	Sheets of Plywood for Cladding (or 12 if trusses already have cladding)
1	Bag of hardware containing;

	Nails 2" HDG	Nails 2.5" roof	Nails 8D 1.5"	Nails 8D 2.5"	Nails 16D 3.5"	Screws 4" ACQ
Main wall frame assembly					120	
Pre-fix Trusses					24	
Pre-fix Purlins					48	
Cross Supports				16		
Fix Porch Ceiling	27					13
Fix Anchors				184		
Hurricane Straps			80	194		
Hurricane Ties			320			
To put roof		184				
To put ridge		62				
For Cladding	1244					
Total, incl 5% extra	1335	258	420	414	202	14

Nails 8D x 1.5" can also be delivered as nails 8D x 2.5"

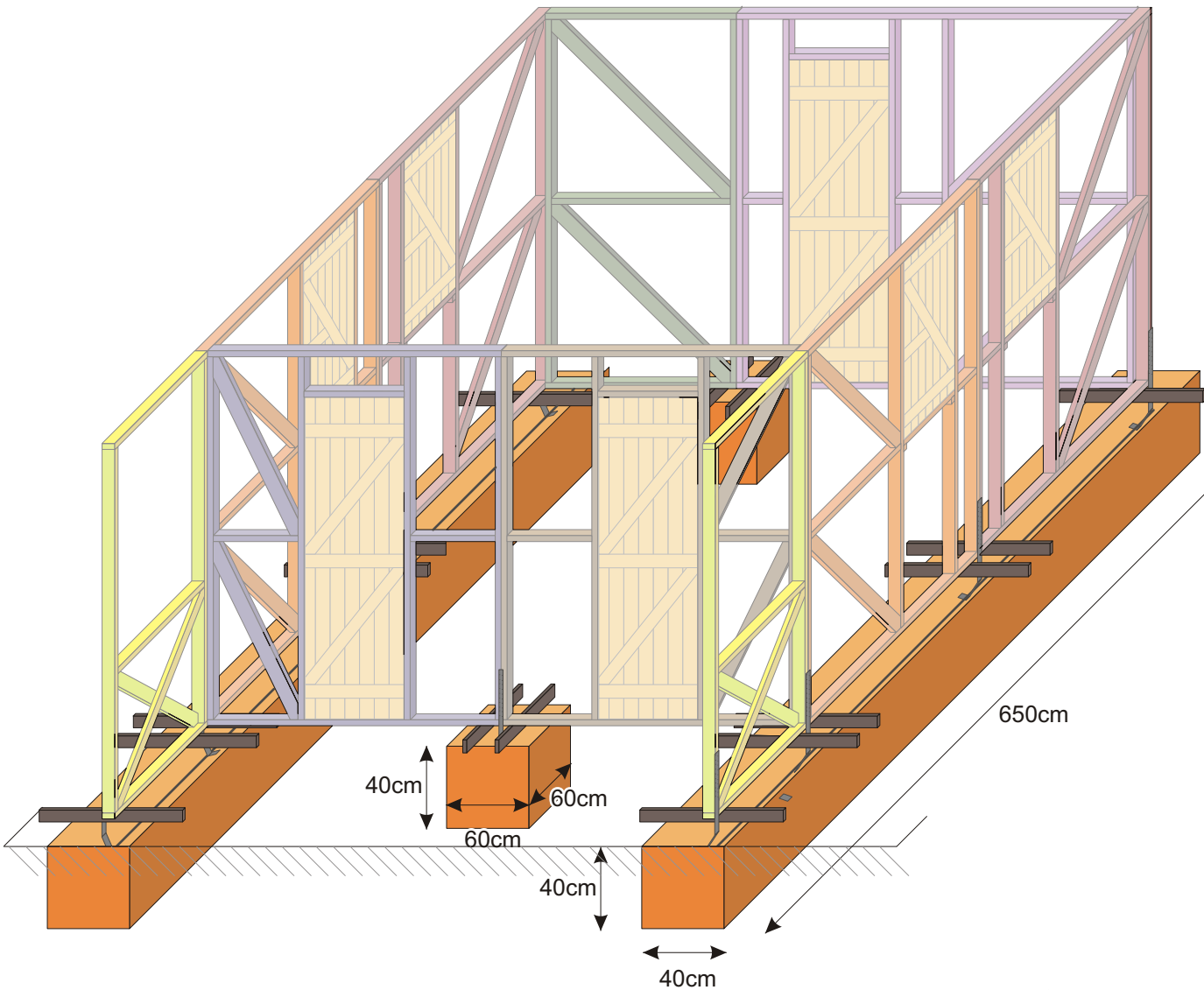
NEW Foundation, poured with anchors, poured BEFORE the house is erected.



- Site is excavated and leveled.
- A base of Gravel and Cobble stone is put down and compacted.
- A grid of #2 rebar is prepared to be poured into the floor.
- Concrete fromwork is put in place and the anchors pre-possitioned.
- A #4 rebar is positioned all around to hook up the anchors.
- The slab foundation is poured at a 2500 psi strength.
- Materials to be calculated by a professional.

This kit includes NO parts to make the concrete slab.
Your slab should provide 5,000 kg / 10,000 lbs of mass.
Maxima is NOT responsible for proper installation.

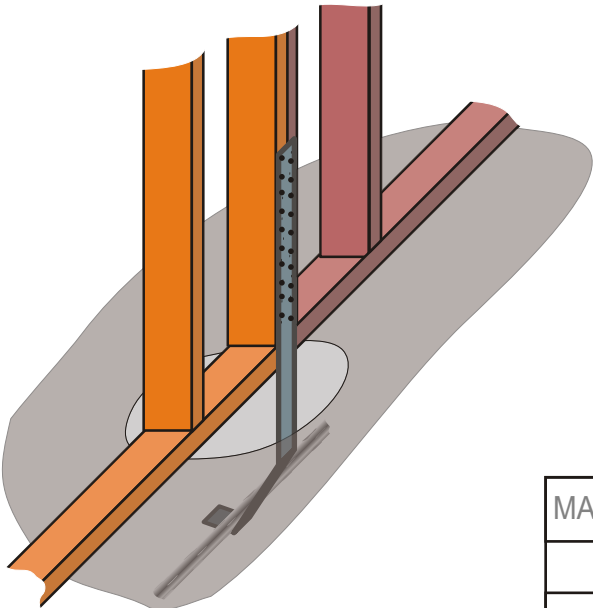
NEW foundation, poured AFTER the house is erected.



- Dig the foundation as good as possible before the house is build.
- Use 2x4x 4ft sticks to cover the foundation openings while erecting the panels.
- Attach the anchors as instructed, digging the foundation space deeper where needed.
- Use a #4 (½") rebar, about 80ft per house across the anchors connecting them where possible. Use some Tie-Wire to hold them in place.
- Mix and pour concrete according to the 1-2-3 ratio. 1 part of cement, 2 parts of sand, and 3 parts of gravel.
- Total volume of concrete needed will be 2.5m3. This breaks down into:
 - 0.4 m3 of cement (12 bags of 50kg)
 - 0.8 m3 of sand
 - 1.2 m3 of gravel
- The slower the concrete dries, the harder it will be, if possible keep the concrete wet and out of the sun the first few days.
- A floor can be added after, or not. However, not using a rebar grid to tie the floor into the foundation, gives the house no additional structural strength. A floor is structurally not needed using this design.

OLD or INDIVIDUAL HOLE foundation.

- Erect the house according to instructions.
- Break original foundation making holes where the anchors have to be inserted.
- Attach anchors to frames, hanging them freely down the openings into the openings.
- Use a #4 (½") rebar, to make a cross member to the anchor. If possible, make this piece of rebar longer than the diameter of the hole. Use some Tie-Wire to hold them in place.
- Mix and pour concrete according to the 1-2-3 ratio. 1 part of cement, 2 parts of sand, and 3 parts of gravel.
- Fill up the holes that hold the anchors with concrete mix.



Different models and ideas shown.

MAXIMA S.A. / 2x4 & Plywood House (v CR6.0)	
Information to plan the foundation	
Haiti, November 6th, 2010	10