

Team Guidelines

What's Being Built

- All Exterior Walls
- Loft Joists
- Stairs
- Interior Walls (x2)
- Roof structure (Six 8-ft segments)

Workflow Suggestions:

Some activities take longer than others, and some are pre-requisites to other, so arranging the workflow is important to have the day go quicker and more efficiently.

- It is recommended that painting one side of the plywood with the interior paint be started immediately. This will allow the paint to dry as the walls are being built. (see general Painting guidelines below)
- The exterior walls and roof segments will take the longest to build, so it is recommended they be started early, in parallel with the painting. Both will ultimately require painting after being assembled.
- The roof segments will also take some time to build, so it is recommended they be started early, in parallel with the exterior wall construction if there are enough volunteers or immediately after wall construction.
- The ladder, lofts, and interior walls can follow.
- All building components will ultimately require painting after being assembled so having a few people operate as a paint crew throughout the day would contribute to efficiency.

Quality Control:

The individual instruction sets below include quality control guidelines where it is important to the build. Check all components for “shiners” (nails through one board missing their intended connection point). Remove and replace these nails as they can be dangerous when loading and building.

Breaks and Lunch:

On your own schedule. Please take frequent water breaks and adhere to self-distancing guidelines.

Loading/Staging:

After building and painting are complete, please help move all building components near the flat-bed truck for loading.

Clean-up:

Please help clean up your work area at the end of the day. The construction company has been kind enough to let us use the site and we want to be good neighbors and leave the site as we found it. There are a couple of magnetic nail pick-up tools available to sweep your area for any nails or screws that may have dropped on the ground.

Also, if you've used our tools, return them to the correct bins and empty any nail pouches into the correctly-sized nail box.

Toilet Facilities:

Each site has its own flush porta-potty. Additional disinfecting spray and hand sanitizer will be provided.

Garbage:

A garbage disposal bin will be available on site for any garbage. Please adhere to safe-distancing guidelines.

(The following additional guidance is provided for reference purposes)

Painting

Within each workspace is a pile of 4'x 8' plywood sheeting. Lay it out on the ground or create 'tents' of two sheets nailed together. There is usually one side nicer than the other, put the nice side down (out) and the rougher side up (in).

The side facing up (out) will be painted with the labeled INTERIOR PAINT in the five gallon bucket. DO NOT PAINT THE OTHER SIDE at this time.



There are also four sheets of shorter plywood (4'x 75") for interior walls, these can be painted on both sides with the INTERIOR paint.

The volunteers who are building the walls will be waiting for the paint on the plywood to dry so speed is essential.

When the exterior walls are built the unpainted side of the plywood will be facing up and can be painted with the exterior color located at your site.



The loft segments can be painted with the INTERIOR paint.

The roof segments should be painted with the WHITE KILZ primer in the 2-gallon bucket.



Front 16-FT Wall section (1 Wall)

All walls framed at 24" on center (see framing plan)

Quality Control:

Installing Plywood sheeting correctly is critical for the walls to sit properly on the foundation. Please check walls are square before nailing sheets by aligning the bottom of the plywood carefully along the bottom of the Bottom Plate, along the side of the wall, and along top of wall (3/4" down from top of Top Plate).

Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each stud through Top and Bottom Plates

8-Penny Nails (2-1/2") every 6 inches along edges of Plywood and every 12 inches along studs under the center of the Plywood.

Lumber Color Coding:

92-1/4" Studs for framing are color coded **PINK** on each end.

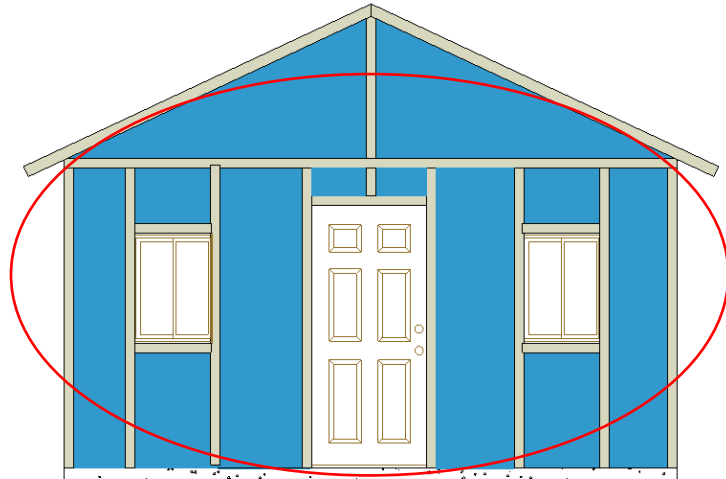
2 x 4 x 15' 5" boards are color coded **BLACK** on each end

2 x 4 x 16-FT King Plate color coded **ORANGE**

Window and Door cuts are pre-made, packaged, marked and color coded **PURPLE**

Lumber Requirement for 16-FT Front Wall Section:

92-1/4" Studs for Framing	8
2 x 4 x 15' 5" boards for Top & Bottom Plates	2
2 x 4 x 16-FT board for King Plate	1
Window & Door Packages	2 Window & 1 Door
Plywood Sheets	4



Rear 16-FT Wall section (1 Wall)

All walls framed at 24" on center (see framing plan)

Quality Control:

Installing Plywood sheathing correctly is critical for the walls to sit properly on the foundation. Please check walls are square before nailing sheets by aligning the bottom of the plywood carefully along the bottom of the Bottom Plate, along the side of the wall, and along top of wall (3/4" down from top of Top Plate).

Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each stud through Top and Bottom Plates

8-Penny Nails (2-1/2") every 6 inches along edges of Plywood and every 12 inches along studs under the center of the Plywood.

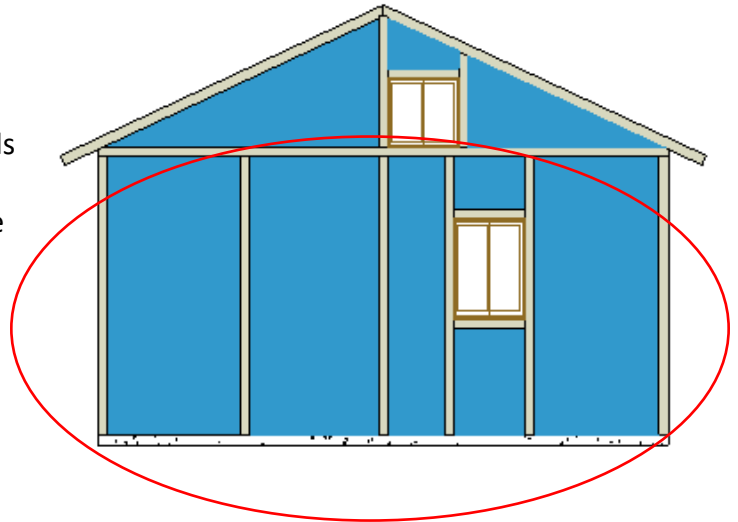
Lumber Color Coding:

92-1/4" Studs for framing are color coded **PINK** on each end.

2 x 4 x 15' 5" boards are color coded **BLACK** on each end

2 x 4 x 16-FT King Plate color coded **ORANGE**

Window cuts are pre-made, packaged, marked and color coded **PURPLE**



Lumber Requirement for 16-FT Rear Wall Section:

92-1/4" Studs for Framing **9**

2 x 4 x 15' 5" boards for Top & Bottom Plates **2**

2 x 4 x 16-FT board for King Plate **1**

Window Package **1**

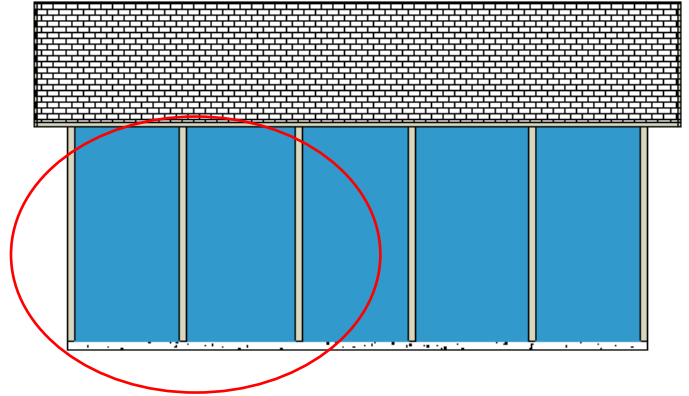
Plywood Sheets **4**

Left Side 10-FT Wall section (2 walls total)

All walls framed at 24" on center (see framing plan)

Quality Control:

Installing Plywood sheeting correctly is critical for the walls to sit properly on the foundation. Please check walls are square before nailing sheets by aligning the bottom of the plywood carefully along the bottom of the Bottom Plate, along the side of the wall, and along top of wall (3/4" down from top of Top Plate).



Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each stud through Top and Bottom Plates

8-Penny Nails (2-1/2") every 6 inches along edges of Plywood and every 12 inches along studs under the center of the Plywood.

Lumber Color Coding:

92-1/4" Studs for framing are color coded **PINK** on each end.

2 x 4 x 10-FT boards are color coded **RED** on each end

Lumber Requirement for Each Left-Side 10-FT Wall Section:

92-1/4" Studs for Framing & King Plate **7**

2 x 4 x 10-FT boards for Top & Bottom Plates **2**

Plywood Sheets **2**

Right Side 10-FT Wall section (2 walls total)

All walls framed at 24" on center (see framing plan)

Quality Control:

Installing Plywood sheeting correctly is critical for the walls to sit properly on the foundation. Please check walls are square before nailing sheets by aligning the bottom of the plywood carefully along the bottom of the Bottom Plate, along the side of the wall, and along top of wall (3/4" down from top of Top Plate).



Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each stud through Top and Bottom Plates

8-Penny Nails (2-1/2") every 6 inches along edges of Plywood and every 12 inches along studs under the center of the Plywood.

Lumber Color Coding:

92-1/4" Studs for framing are color coded **PINK** on each end.

2 x 4 x 10-FT boards are color coded **RED** on each end

Lumber Requirement for Each Left-Side 10-FT Wall Section:

92-1/4" Studs for Framing & King Plate **7**

2 x 4 x 10-FT boards for Top & Bottom Plates **2**

Plywood Sheets **2**

Interior Wall sections (2 walls total)

All walls framed at 24" on center (see framing plan)

Quality Control:

Installing Plywood sheeting correctly is critical for the walls to sit properly on the foundation. Please check walls are square before nailing sheets by aligning the bottom of the plywood carefully along the bottom of the Bottom Plate, along the side of the wall, and along top of wall (3/4" down from top of Top Plate).

Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each stud through Top and Bottom Plates
8-Penny Nails (2-1/2") every 6 inches along edges of Plywood and every 12 inches along studs under the center of the Plywood.

Lumber Color Coding:

72" Studs for framing are color coded **YELLOW** (YELLOW) on each end.

2 x 4 x 10-FT boards are color coded **RED** on each end

2 x 4 x 4-FT boards are color coded **LIGHT BLUE** on each end

Lumber Requirement for Interior Wall Sections:

72" Studs for Framing & King Plate (**YELLOW**) **9**

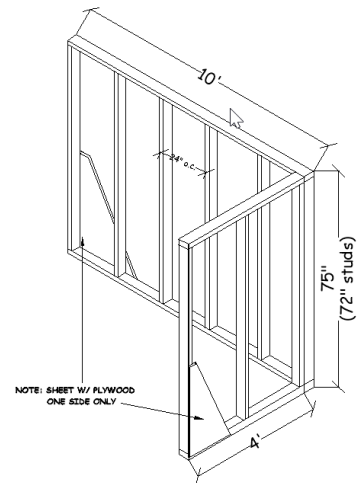
2 x 4 x 10-FT boards for Top & Bottom Plates **2**

2 x 4 x 4-FT boards for Top & Bottom Plates **2**

Plywood Sheets **3-1/2**

Painting:

Once the plywood has been nailed to the studs, paint the top face of the plywood with the interior color (the underside should have been painted earlier).



10-FT Loft Floor (1 total)

Framing is 12" on center (see framing plan)

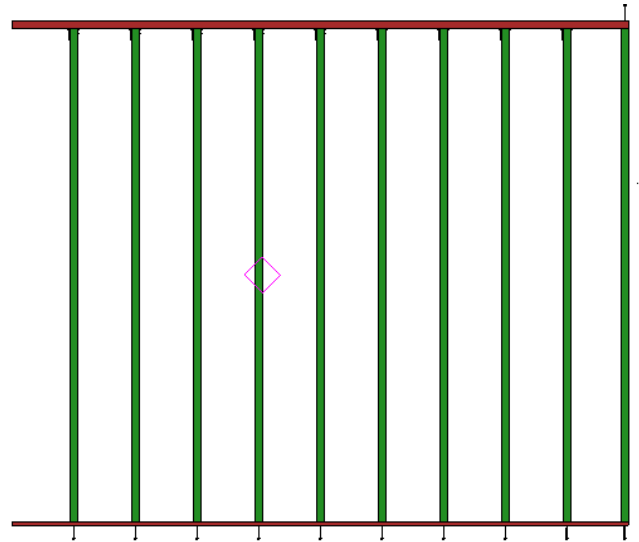
Quality Control:

Please take your time during layout to ensure the joist hangers are located in the right place and that they are mounted correctly (see the diagram). This is key to proper installation of the loft in Tijuana.

Description:

The loft floor consists of a number of 8-ft 2x4 joists nailed on one end to a ledger (10-ft 2x4) with metal joist hangers, using joist hanger nails. There is one sample ledger with joist hangers attached.

The other end of the joists will be nailed to a 1x4 board. This board is temporary to aid in transportation and will be removed when the loft floor is assembled in a house in Tijuana.



Nailing Schedule:

Use 1-1/2" joist hanger nails to nail joist hanger to ledger, and to joist. Use 4 joist hanger nails per hanger.

Nail two 16-Penny Nails (3-1/4") into each joist through each joist hanger (see drawing).

Nail the opposite end of the joist to a temporary 1 x 4 ledger using a single 8-Penny Nails (2-1/2") through the ledger and into each joist.

Lumber Color Coding:

2 x 4 x 8-FT boards are color coded **GREEN** on each end

2 x 4 x 10-FT boards are color coded **RED** on each end

1 x 4 x 10-FT Temporary Ledger boards are not color coded and are located near your station.

Lumber Requirement for 10-FT Loft Section:

2 x 4 x 8-FT Joists **10**

2 x 4 x 10-FT Ledger **1**

1 x 4 x 10-FT Temporary Ledger **1**

Painting:

Flip the loft floors over and paint the joists with the Interior Paint provided. This will result in having the ceiling joists painted. We do not paint the top of the joists because they will be covered by plywood when the house is put together in Mexico.

Extra plywood:

After all the walls are built, there will be four extra sheets of plywood which will be used to complete the houses in Mexico. Please attach two of those extra sheets on the 10-FT loft floor using 8-penny nails at the 4 corners of each sheet.

8-FT Loft Floor (1 total)

Framing is 12" on center (see framing plan)

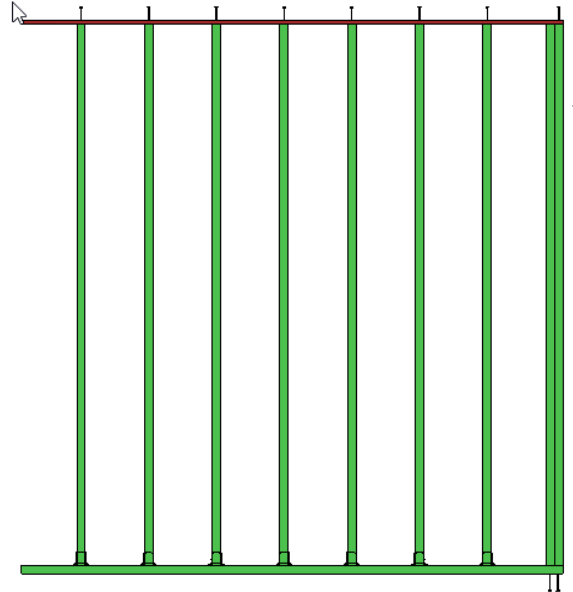
Quality Control:

Please take your time during layout to ensure the joist hangers are located in the right place and that they are mounted correctly (see the diagram). This is key to proper installation of the loft in Tijuana.

Description:

The loft floor consists of a number of 8-ft 2x4 joists nailed on one end to a ledger (10-ft 2x4) with metal joist hangers, using joist hanger nails. There is one sample ledger with joist hangers attached.

The other end of the joists will be nailed to a 1x4 board. This board is temporary to aid in transportation and will be removed when the loft floor is assembled in a house in Tijuana.



Nailing Schedule:

Use 1-1/2" joist hanger nails to nail joist hanger to ledger, and to joist. Use 4 joist hanger nails per hanger.

Nail two 16-Penny Nails (3-1/4") into each joist through each joist hanger (see drawing).

Nail the opposite end of the joist to a temporary 1 x 4 ledger using a single 8-Penny Nails (2-1/2") through the ledger and into each joist.

Lumber Color Coding:

2 x 4 x 8-FT boards are color coded **GREEN** on each end

2 x 4 x 10-FT boards are color coded **RED** on each end

1 x 4 x 10-FT Temporary Ledger boards are not color coded and are located near your station.

Lumber Requirement for 8-FT Loft Section:

2 x 4 x 8-FT Joists **10**

2 x 4 x 10-FT Ledger **1**

1 x 4 x 10-FT Temporary Ledger **1**

Painting:

Flip the loft floors over and paint the joists with the Interior Paint provided. This will result in having the ceiling joists painted. We do not paint the top of the joists because they will be covered by plywood when the house is put together in Mexico.

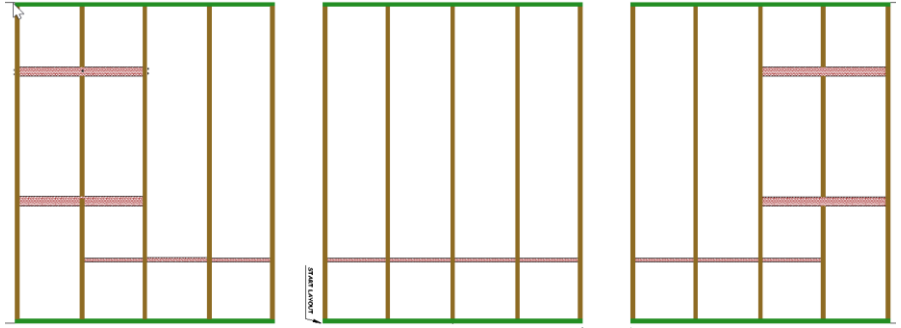
Extra plywood:

After all the walls are built, there will be four extra sheets of plywood which will be used to complete the houses in Mexico. Please attach two of those extra sheets on the 8-FT loft floor using 8-penny nails at the 4 corners of each sheet.

Roof Segment (6 segments total)

Quality Control:

Layout out and construction of the roof segments is important to ensure proper installation of sheathing in Mexico. Six segments are needed, two right, two center and two left. **Please refer to the roof diagram and roofing guide for specific layout and placement.** Ask one of the skilled volunteers for guidance if you are unsure.



There are 3 different configurations of rafters and placement with a segment is important. Please ensure that nails are installed correctly, i.e., fully nailed flat against wood. We do not want nails sticking out into open air. These can cause serious cuts.

Nailing Schedule:

Two 16-Penny Nails (3-1/4") into each rafter through Ridge (Top) and Eave (Bottom) boards.
Two 16-Penny Nails into each outlooker through rafter and one in center of outlooker into rafter below.
Two 16-Penny Nails into each block through rafter on both ends. End-nailed or Toe-nailed.

Lumber Color Coding:

2 x 4 x 8-FT boards are color coded **GREEN** on each end
2 x 4 x 10-FT rafter material is color coded **RED**
2 x 4 x 10-FT rafters are color coded **BROWN**
45-5/8" outlookers are not color coded, but labeled with size
21-5/8" and 22-5/8" blocks are not color coded, but labeled with size

Lumber Requirement for six roof segments:

2 x 4 x 8-FT boards for Ridge & Eave boards	12
2 x 4 x 10-FT rafters	30 (four barge, four notched, twenty-two common)
Outlookers @ 45-5/8"	8
Blocks	20 (twelve @ 21-5/8" & eight at 22-5/8")

LADDER **(1 total)**

Ladder Set consists of:

- Two 9-FT 6-IN stringers
- 9 stair steps

Use the 3 inch screws, 3 per step side, to assemble the ladders.

Drill 1/8" holes for the screws in the stringers first, for ease of assembly.

Paint the ladders with the interior paint.

