

Safe Distancing : The outdoor site where we will be working on is a total of three acres and is large enough to support safe distancing both between and within groups. The individual sites, measuring 100 ft x 100 ft, will be marked off. Each individual site will be separated from others by at least 40 ft. Please see the attached site plan as an example of how the area will be divided and all materials positioned within same.

Waivers : Project Mercy will collect a waiver from each volunteer entering the site. The waiver is mandatory in order to be at the event, even if only as a spectator.

Temperature Check : For everyone's safety and reassurance, we will be conducting temperature checks upon arrival at the same time as you hand in the waivers. This is a very short process and we have multiple temperature gages. Anyone with a temperature of 100 degrees F or more will be prohibited from participation or entry onto premises.

Lumber and Paint : All of the lumber and materials needed to support the build will be pre-positioned within each group's designated area.

Project Mercy Leadership : Please advise us at time of confirmation if you need skilled leaders for the build. There will be additional skilled volunteers available to support groups as needed. No-one will enter a group's designated area unless specifically authorized by your group. They will wear face masks any time they are within a designated area.

Face Masks : Face masks are required at all times except when eating and drinking or in a personal vehicle. We ask that each group bring their own masks and gloves as required, but there will be a small supply of these on-site also.

Sanitization : We request that each group bring their own sanitization items, but there will be additional hand sanitizer available on site as needed. All common areas, tools, and equipment will be sanitized prior to and during the event.

Tools : You need to bring your own hand and power tools. We will only have a very limited number of extra tools and equipment on site. Please let us know well ahead of the event if you would like your lumber pre-cut.

Food and Beverages : To maintain safe distancing and avoid common touch points, Project Mercy asks that you provide your own water, lunch, and snacks.

Bathroom Facilities : Flush port-a-potties with hand washing stations will be on the build site.

Garbage Disposal : There will be a garbage disposal bin on site for you to discard all trash. Please clean up after your build.

It is incumbent upon each volunteer and group leader to take personal responsibility and not come to the event if they feel sick or have been in contact with someone who is sick or has tested positive for COVID-19. On the day of the event, you should not come (and

should self-isolate at home until given direction otherwise from your healthcare provider) if you have any of the following signs or symptoms:

- **You feel feverish or measure a temperature of 100 degrees F or higher**
- **Chills**
- **Cough**
- **Shortness of breath or difficulty breathing**
- **Fatigue**
- **Muscle or body aches**
- **Headache**
- **New loss of smell or taste**
- **Sore throat**
- **Congestion or runny nose**
- **Nausea or vomiting**
- **Diarrhea**

If you have any of these signs or symptoms, do not come to the event and we urge you to seek medical attention. Anyone with a temperature of 100 degrees F or more, will be denied participation in the event or entry onto the premises.

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.

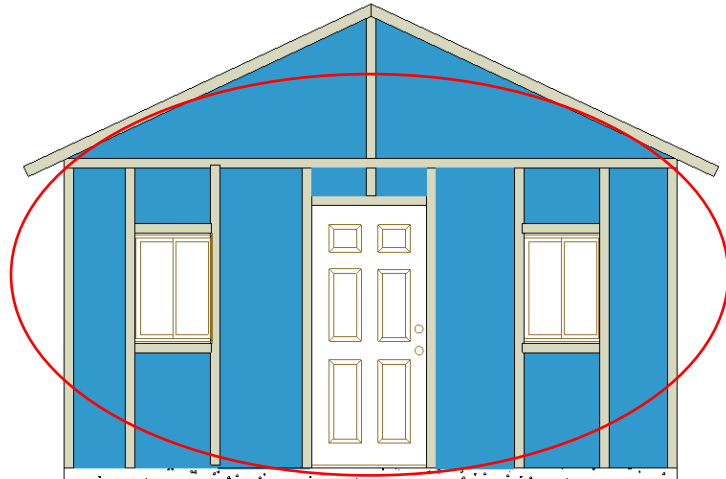
2 x 4 x 15' 5" boards are color coded **BLACK** on each end

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.

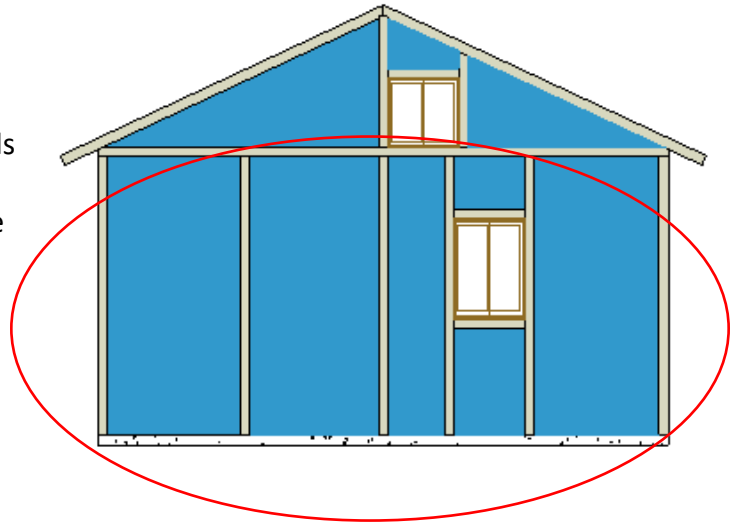
2 x 4 x 15' 5" boards are color coded **BLACK** on each end

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

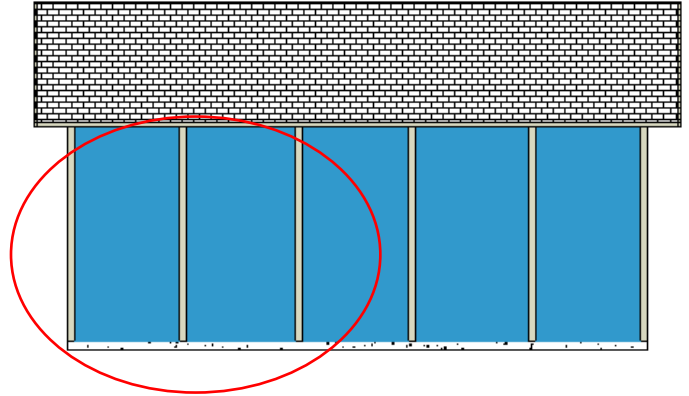


Left Side 10-FT Wall section (2 walls total)

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**

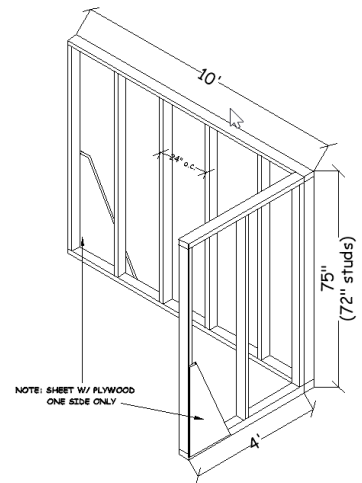
2 x 4 x 10-FT boards for Top & Bottom Plates **2**

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)

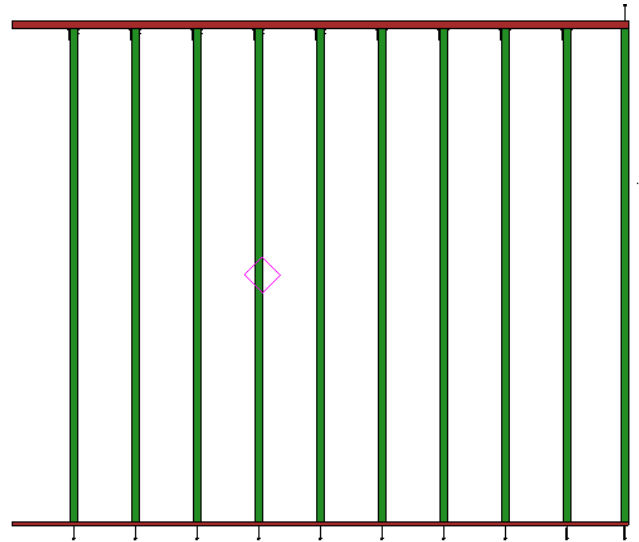
Quality Control:

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)

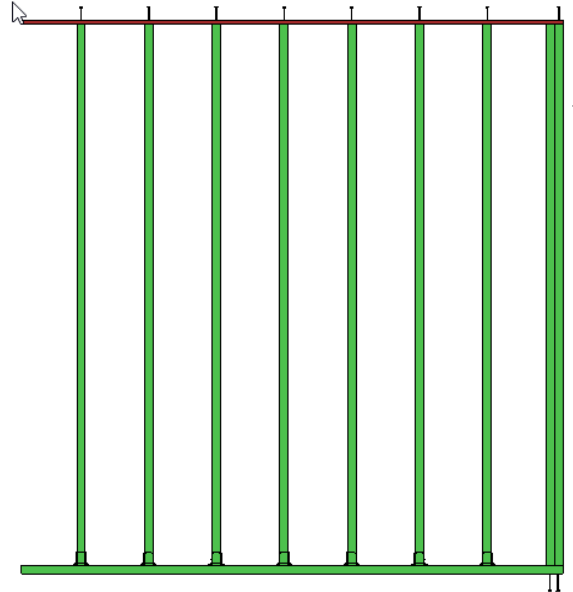
Quality Control:

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.

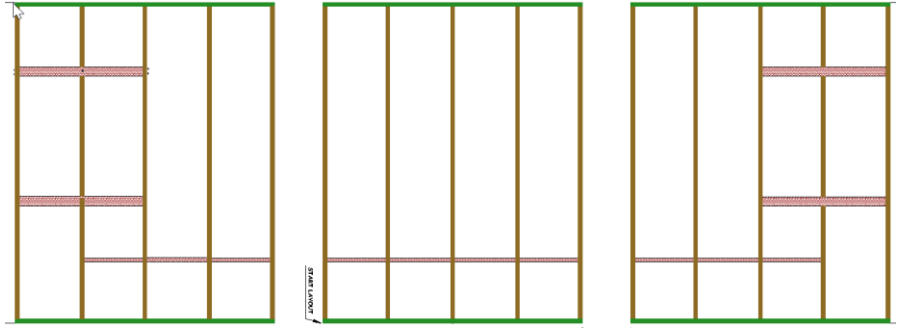
Extra plywood:

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)**

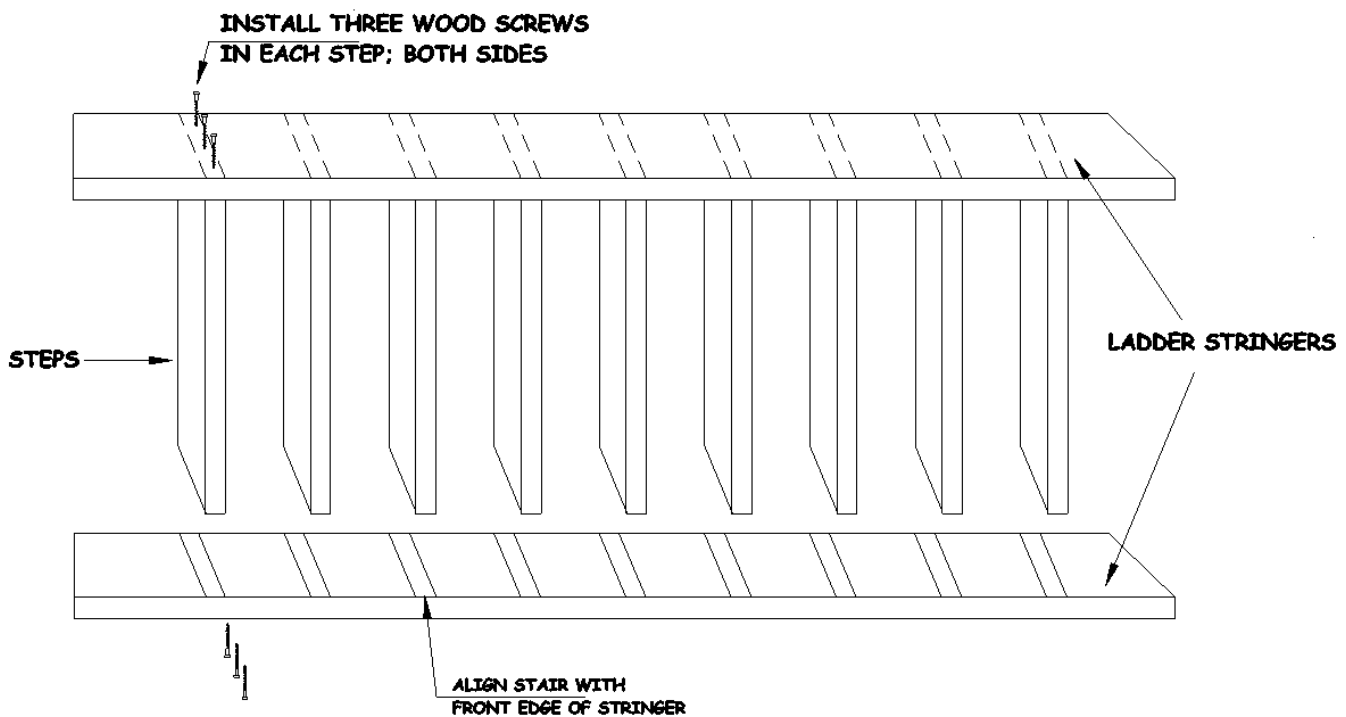
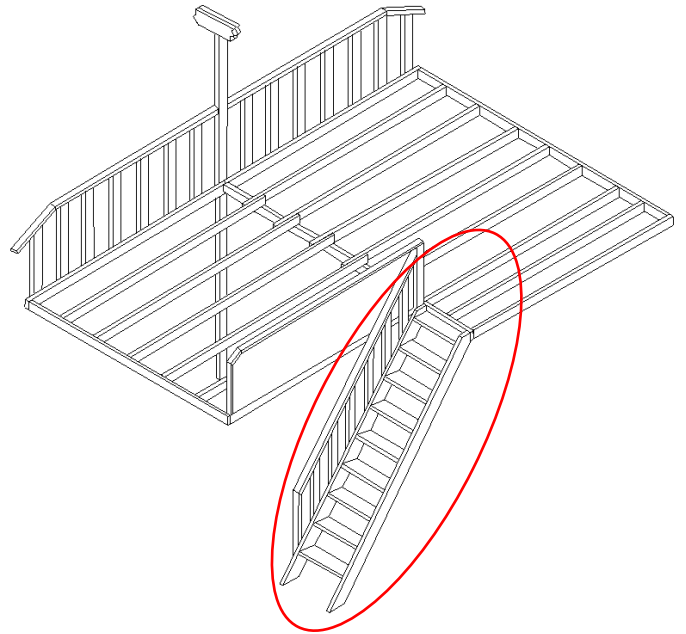
Ladder Set consists of:

- 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.



COVID-19 workplace leadership guidelines

Project Mercy has put together a list of safety protocols for all participants. You can find a full set of house component plans, our Waiver, including COVID-19 clause, and the list of Protocols on our website www.projectmercybaja.org. Please study these documents prior to construction.

Waiver:

Please note that no individuals are allowed onsite unless they have filled out our simple Waiver form. This is available online and takes just a couple of minutes to fill-in. Each leader will be sent a list of participants who have filled out the form and we ask your help in ensuring that all members of your team are in compliance.

In addition, we ask that all groups prepare to implement and follow the guidelines set out below:

Specify a leader(s) responsible for implementing the guidelines. The leader (s) should take into consideration a risk assessment of how you plan to follow these measures.

An important factor is pre-build training and communication with workers of these plans.

Factors to be taken into consideration:

Following the guidelines – masks, hand sanitization, social distancing, adhering to work boundaries as laid out (see site plan).

Suggested measures to be taken to ensure distancing while working:

Creation of specific pods of volunteers for specific jobs

Limiting number of workers in each pod

Stagger breaks and areas for same

Toilet facilities have been sanitized and have hand sanitizer inside. Individuals are responsible for keeping the facilities clean.