TINY HOUSE

BUILDING ASSEMBLY INSTRUCTIONS

QUESTIONS / COMMENTS
contactus@eworks.org
206.329.8300

DIGITAL DOWNLOAD
www.eworks.org/tiny-houses-1/

IN COLLABORATION WITH
Low Income Housing Institute
Wood Technology Center
Seattle Central College
TINY HOUSES

In between homelessness and full, permanent housing there is another step being pursued by many communities – an easily achieved temporary housing solution that enables those without shelter to begin to find dignity, stability and get ‘back on their feet’ – Tiny Houses.

Tiny Houses are moveable, low-tech, simple structures that can be built with mostly minimal skills in a weekend for $2,200 in materials.
INTRODUCTION

Construction sites can have numerous dangers. Start a project by making safety a primary concern at the job site. Recognize that safety is the responsibility of each member of the build team. Try to be conscious of the safety of others as well as yourself as you move around and work on the job site.

Be cautious in your work and ask questions of experienced build team members. Do not go ahead with a task if you are uncertain about how it is done, or unable to do it. Safety is based on knowledge, skill and an attitude of care and concern. Before work starts a job supervisor should instruct each worker about the proper procedures for performing each task. This should familiarize the worker with the potential hazards of doing the tasks and advise him or her as to how such hazards can be minimized or eliminated.

GUIDELINES FOR A SAFE ATTITUDE

• THINK before you do your work or task
• If you are uncertain about how to do a task or how to operate a power tool - ASK A SUPERVISOR. 
• Concentrate on your task and eliminate distractions.
• Know where the first-aid kit is located and how to get emergency help.
• Inspect all power tools, hand tools, ladders and scaffolding on a daily basis.
• Advise your supervisor IMMEDIATELY of any unsafe or hazardous tool or condition.

PROPER SAFETY EQUIPMENT

Proper clothing is essential to safety as the proper selection and use of tools. Wear clothes and gloves that are appropriate for work/weather conditions. Loose clothing is dangerous around power tools. Workers shall wear work boots or thick-soled shoes at all times when on a construction site. Any worker wearing sandals or other types of inappropriate footwear shall not be permitted to remain at a construction site. Hard hats are to be worn during the framing phase of construction, or when required by a supervisor, and are to be made available to workers on each job site at all times. Protective glasses will be available for every construction worker, and should be worn any time they are operating a power tool or when instructed by a supervisor. Each worker must wear a dust mask when installing insulation, sanding or when instructed by a supervisor. Ear plugs must be worn when using a power tool for a prolonged period of time or when instructed by a supervisor. Ear plugs are to be made available to workers on each job site at all times.
POWER TOOLS + ELECTRICAL EQUIPMENT

A power tool should not be used without proper instruction on its use and on what can happen if the tool is not used properly. The instruction should be done by a qualified person and should be given to all workers; even experienced do-it-yourselfers should receive instruction. The trainee should use the power tool in the presence of the instructor, until the instructor is satisfied that the trainee knows how to use the power tool properly.

Never lower or carry a power tool by its cord. Clean tools daily. Power tools should be checked for defective switches, cords, plugs and proper grounding. Defective tools should not be used and should be reported to the supervisor (do not wait until the end of the day).

AVOID ELECTRICAL SHOCK

- A three-pronged plug must be used on all electric power tools.
- Extension cords must not have frayed insulation or be fastened with staples, hung from nails or suspended from wires.
- All temporary lights must be equipped with non-conductive guards.

HAND TOOLS

Always select the correct type and size of tool for your work and be sure it is sharp and properly adjusted. Guard against using any tool if the handle is loose or in poor condition. Dull tools are hazardous to use because excessive force must be used to make them cut. Oil or dirt on a tool may cause it to slip and cause an injury. When using tools, hold them correctly. Most edged tools should be held in both hands with the cutting action away from yourself. Avoid using your hand or fingers as a guide to start a cut, but if it is necessary, use extreme caution. Handle and carry tools with care. Keep edged and pointed tools turned downward. Carry only a few tools at one time unless they are mounted in a special holder or carried in a tool belt. Anyone working with a hammer at a height should wear a hammer loop or tool belt, and, when not in use, the hammer should be kept in the loop or belt and not placed on a sloping surface or in a precarious position. Do not carry sharp tools in your pockets. When not in use, tools should be kept in special boxes, chests or cabinets.
LADDERS

Inspect a ladder before you use it. If the ladder is unsafe, don’t use it. Look for wear and tear, loose rungs and defects. Use a ladder that will reach the work. An extension ladder should reach 3 feet above the work level. Move your ladder with your work. If both of your shoulders are extended outside the ladder while you are working, you are reaching too far. When using an extension ladder, use the “4-to-1” rule: For every 4 feet of height, move the bottom of the ladder 1 foot away from the wall. A ladder is pitched at the proper, safe angle if you can grasp a rung at shoulder height. Place your ladder on solid footing. If there is a danger of the ladder moving while you work, tie it down. If there is a danger that the ladder will be hit, barricade it. If the feet of the ladder are not level, dig the ground out under one foot with the claw of a hammer rather than raise one foot with blocks. Never use an aluminum ladder in the vicinity of electrical lines and never use a ladder outdoors during inclement weather or on very windy days. Carry tools and materials in proper carrying devices and keep your hands free for climbing. When climbing, always face the ladder.

CLEAN WORK SITE

A clean work place is a safe work place. This refers to the neatness and good order of the construction site. Maintaining good housekeeping contributes to the efficiency of the worker and is important in preventing accidents. Position building materials and supplies in carefully laid out piles to allow adequate aisles and walkways. Clean up all rubbish and scrap materials on a daily basis. Do not permit blocks of wood, nails, bolts, empty cans, pipe, wire or other materials to accumulate on the work site. They interfere with work and can constitute a hazard. Keep tools and equipment that are not being used in chests, panels or tool boxes. This protects the tools and the workers. Never leave a work site unguarded unless all tools and materials have been properly secured.

EMERGENCY MEDICAL CARE

If someone is injured on the job, contact your supervisor immediately and summon any needed medical help. You also should use the supplies located in the first-aid kit to stabilize the injury as much as possible until medical help arrives.
A SPECIAL WORD ON SAWS

• Don’t bind the blade of any saw. When cutting long panels, the blade may bind, and the saw mill will catch and kick back toward the operator. Use small wood wedges or shim shingles to spread the saw cut as you go along.

• Maintain the blade guard. A spring-actuated blade guard often can become bent and won’t slide quickly, or the spring can become stretched so the return is slow. Repair any damage to the guard as soon as it happens, and NEVER tie the guard back out of the way.

• Support what you are working on properly. Never attempt to cut something that could tilt or fall and cause the saw to slip.

NEEDED MATERIALS

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ASSEMBLY INSTRUCTIONS

FLOOR PLAN

Scale: 1/2" = 1' - 0"

(3) STUDS @ CORNERS
ROOF OVERHANG (ABOVE)
ROOF RAFTERS (ABOVE)
STUDS @ 24" O.C., RAFTERS ALIGNED ABOVE, TYP.
BUILDING SECTION

Scale: 1/2" = 1' - 0"

ROOF ASSEMBLY
- Asphalt shingle roofing
- Over underlayment
- Over 1/2" sheathing
- 2x4 roof rafters, 24" o.c.
- 1" rigid insulation

SQUARE CUT RAFTER TAILS, OVERHANG ROOF SHEATHING
2x4 BIRD BLOCKING
TOP PLATE - 2 x 4 CONT., NOTCH BIRDSMOUTH IN RAFTERS
(2) 2 x 6 SELECT STRUCTURAL GRADE HEM FIR CONTINUOUS RIDGE BEAM

WALL ASSEMBLY
- 3/8" T1-11 SHEATHING / SIDING
- OVER HOUSE-WRAP
- OVER 2x4 STUDS @ 24" O.C.
- 1" RIGID INSULATION IN STUD BAY
- 3/16" INTERIOR HARDBOARD PANEL

BOTTOM PLATE - 2 x 4 CONT.
FLOOR RIM JOIST - 2 x 6 CONT., (2)-2x6’s @ FRONT & REAR
BASE SKID - P.T. 4 x 6

FLOOR ASSEMBLY
- 3/4" T&G PLYWOOD SHEATHING
- 2x6 JOISTS @ 16" O.C.
- 1" RIGID INSULATION IN JOIST BAY
- 12" x 12" PIER BLOCK

MAXIMUM

6'-0"

8'-0"

9'-1 1/2"
**FLOORING NOTES:**
1. Check work by walking floor; Look for missing and improperly installed fasteners; Adjust as needed
2. Nails should be driven into the joists and sink securely into joist and subfloor
**STEP 05**  
Materials: Sheet Vinyl Flooring

**FLOORING NOTES:**
1. Protect installed flooring with cardboard or equivalent material during construction

**STEP 06**  
Materials: 2x4 Wd. Studs - 16d Framing Nails; 2x4 Wd. Plates - 16d

**FRAMING NOTES:**
1. Framing to be plumb, square, and level
2. Secure top and bottom plates to studs with 2 nails minimum

**STEP 07**  
Materials: Everbilt House Wrap - T50 Staples

**STEP 08**  
Materials: T1-11 Plywood Siding - 8d Framing Nails

- Everbilt House Wrap; Staple 6” O.C. into Studs at Edges and 12” O.C. into Studs at Wrap Interior Field

- T1-11 Plywd. siding
  - Hold siding up 1/2” from bottom of joist along back wall
**FLASHING NOTES:**
1. Lap flashing full framing depth into openings
2. Start flashing at sills of opening, then install jamb flashing overlapping the sill flashing, and head flashing overlapping the jamb flashing
3. Allow only 2 1/2" of flashing to be exposed on face of sheathing

**STEP 09**
Materials: Sheet Vinyl Flooring

**STEP 10**
Materials: Window and Door Flashing

**STEP 11**
Materials: Window and Door Flashing

**STEP 12**
Materials: Install Door and Windows
**STEP 13**
Materials: Install Corner Flashing; Flash around Window Nailing Flange

- Peel and stick flashing; Lap 3” each way at corners

**STEP 14**
Materials: Install Corner Flashing; Flash around Window Nailing Flange

- Cut flashing tape into (2) - 3” strips and install over nailing flange, sides first and top last

**STEP 15**
Materials: Roof Framing - 16d Framing Nails

SECURING RIDGE BEAM & FRAMING END RAFTERS
1. At detail 01, angle cut top of 7” gable framing supports to accommodate 4:12 roof slope; Toenail supports into top plate taking care that framing is plumb and square
2. Secure a 2x4 brace to each center stud at both gable end walls
3. Lift ridge beam into place and secure to brace and gable framing; Provide 6” overhang at both ends
4. Refer to step 16 for detail 04 rafter framing
**STEP 16**
Materials: 2x4 Rafters, Barge Rafters, and Birdlocking

- Install 2x4 Birdblocking Between Rafters, Typ.
- Rafters; Toenail Each Side of Rafter to Ridge Beam; Birdsmouth Notch at Connection to Top Plate
- (3) - 2x4's Built-Up Blocking for Rake Overhangs, Min. 2 Each

**STEP 17**
Materials: 1x6 Wd. Fascia Board - 8d Framing Nails; Gable siding - 8d Framing Nails

- Install continuous z-flashing
- Install gable lap siding, notch as required
- Fascia trim board at gable end rakes

**STEP 18**
Materials: 1/2" Plywd./OSB Roof Sheathing - 16d Framing Nails

- Roof sheathing; Nail sheathing 6" o.c. along panel edges and 12" o.c. at panel interior

**STEP 19**
Materials: Drip Edge Flashing; 15# Felt; T50 Staples

- #15 Felt; Staple 6" o.c. at edges and 12" o.c. at felt interior; Overlap per recommendations - min. 12"; Install from low edge of slope working towards ridge
- Drip edge flashing continuous at entire perimeter; Fasten at each rafter along eaves
**STEP 20**
Materials: 25 Year Asphalt Shingles; 3/4" Galv. Roofing Nails

Asphalt Shingles; Install from low edge of slope working towards ridge

Pier blocks indicated will only be used at final installation

**STEP 21**
Materials: 23"x93" Fiberglass Batt Insulation

Fiberglass batt insulation

Roof removed for clarity

**INSULATION NOTES:**
1. Wear safety glasses, gloves, and dust mask for insulation work

**STEP 22**
Materials: 1" Rigid Foam Insulation; Hardboard Wall Panels

Rigid foam insulation install between rafters, typ.

Door & Window removed for clarity

Install interior 1/4" plywd. wall panels

**STEP 23**
Materials: 1x4 Cedar Trim at Corners, Doors, and Windows

Install head trim over window & door casing; Install door trim first; Cut window trim adjacent to door trim as req'd to fit

Base trim under door threshold
PEOPLE AND PLACES MATTER

Environmental Works
Low Income Housing Institute
Wood Technology Center
Seattle Central College

Tiny house village located at 22nd & Union St. in Seattle