# materials

One of the criteria for design of the house was that all materials be locally available, or available through mail order, with sources listed (with as many as possible from one source).

The Sears catalog was chosen because of its wide distribution, choice of selection and price range. Sears cooperated in the development of the prototype by supplying requested items for evaluation. Those items used in the prototype are listed with catalog number.

**Lumber**

General notes: All lumber used in the house should be Douglas Fir-Larch #2 (or equivalent), except for the posts which should be Douglas Fir-Larch #1 (graded under the rules of the Western Wood Products Association). All lumber should be surfaced so that a 2x4 is actually 1½"x3½", etc.

| Item | Use | Quantity | Source |
|---|---|---|---|
| 2x4 (1,500 f) | floor & ceiling joists | 57/8 ft.<br>5/10 ft. | Where nothing is indicated for source, the item should be available from local building or hardware supply companies. |
| 2x4 | see drawings | 40/8 ft. | |
| 2x3 | | 50/8 ft. | |
| 2x6 | | 13/10 ft. | |
| 2x8 | | 4/12 ft. & 1/16 ft. | |
| 6x6 | | 2/14 ft. & 2/18 ft. | |
| 2x3 redwood | windows | 12/8 ft. | |
| 2x4 redwood | windows | 8/8 ft. | |
| 1x8 redwood | porch & trim | 14/8 ft. | |

**Plywood**

General notes: All plywood to be *DFPA* grade-trademarked and be Ext Type or interior with exterior glue (on plywood not exposed to weather).

| | | |
|---|---|---|
| ⅜" Underlayment | see drawings | 6 |
| ¼" AC | | 10 |
| ⅜" AC | | 2 |
| ½" AC | | 2 |
| ½" MDO (both sides) | furniture | 2 |
| ¾" MDO (both sides) | kitchen/bath | 2 |
| ¾" Birch | furniture | 1 |
| ¾" Rough Sawn cedar (or fir) | panels-interiors | 20 |
| ¾" Rough Sawn w/ grooves @ 4" O.C. (called Shadow Groove) | panels-exteriors | 15 |

When you buy your plywood, make sure it bears the American Plywood Association's DFPA grade-trademarks. These marks are positive identification by the manufacturer that the plywood has been produced in conformance with U.S. Product Standard PS 1 and the rigid quality standards of the American Plywood Association.

| Item | Use | Quantity | Source |
|---|---|---|---|
| **Hardware** | | | |
| Note: All nails, screws, etc. to be galvanized | | | Note: Many of the hardware items are in the Sears catalog. Check the catalog for numbers. |
| nails | see drawings | as needed | |
| screws | see drawings | as needed | |
| lag bolts: | | | |
| ¼"x2" | fasten floor panels | 16 | |
| ⅜"x2½" | fasten roof panels | 8 | |
| ⅜"x3½" | skylight & sliding door | 9 | |
| ¼"x5½" | floor panels | 12 | |
| carriage bolts: | | | |
| ¾"x4½" | wall panels to frame | 30 | |
| ½"x3" | wing wall angle & door | 27 | |
| ½"x6" | roof girder | 12 | |
| ½"x8½" | wing wall to post | 36 | |
| ⅝"x10" | floor girders | 8 | |
| machine bolts: | | | |
| ⅝"x6½" | post straps | 8 | |
| ¾"x4" | frame | 8 | |
| ¾"x8" | frame | 8 | |
| ¾"x10" | | | |
| washers for all the above bolts | | as req. | |
| piano hinge | interiors | 6 ft. & 2 ft. | |
| steel corner angles | interiors | see dwgs. | |
| sliding door track & hangers | sliding doors | 1 set | Sears 9-K-6202N4 |
| two extra hangers | sliding doors | 1 set | Sears 9-K-6202 |
| Misc. small hardware items such as cables, trim pcs. door hinges etc. shown on drawings. | | | |
| **Adhesives, caulks & weatherstrips** | | | |
| 3M Scotch Grip 5230 (best) (for substitution see below *) | panel adhesive | approx. 24 1/5 gal. caulk tubes | 3M Adhesives, Coatings, & Sealers Div., 3M Center St. Paul, Minn. 55101 |
| B. F. Goodrich PL 400 (or other suitable aluminum caulk/adhesive) | aluminum roof caulk & adhesive | approx. 3 1/5 gal. tubes | B. F. Goodrich Adhesives Dept. 0719, 500 So. Main St. Akron, Ohio, 44318 |
| G. E. Silicone Construction Sealant | weather proofing joints | approx. 4 caulk tubes (clear) | G. E. Silicone Products Dept. Waterford, N.Y. 12188 |
| water proof glue | windows | 1 can | Sears 9-K-80642 |
| foam rubber weather strip | windows & bath door | 4 coils | Sears 9-K-7462 |
| foam rubber weather strip | sliding doors | 2 coils | Sears 9-K-74623 |

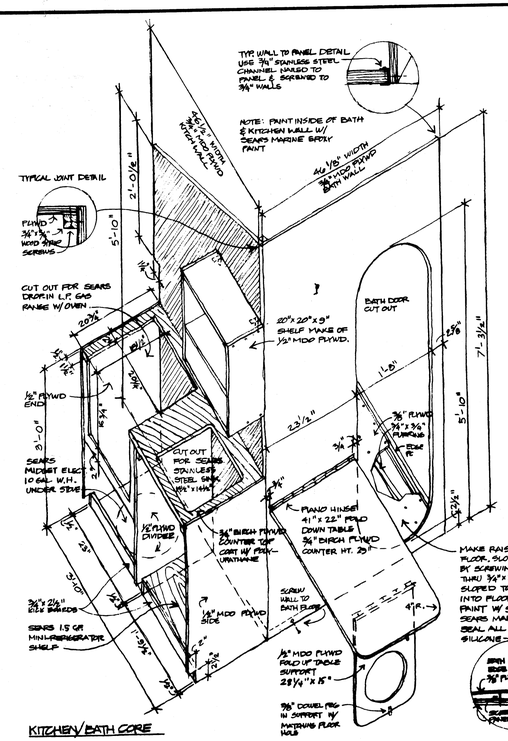
*panel adhesive which meets American Plywood Association specification AFG-01

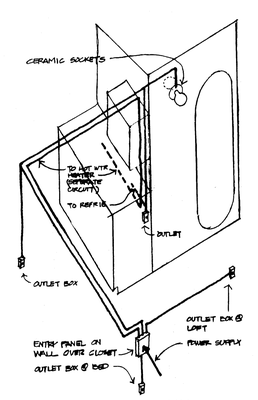
| Miscellaneous Items | Use | Quantity | Source |
|---|---|---|---|
| 1½" or 2½" fiberglass insulation w/ foil | wall panels | 336 L.F. 16" wide | |
| 3½" insulation w/ foil | floor & ceilings | 160 L.F. 24" wide (cut in half) | |
| 2½" corrugated alum. roofg. | | 6 pc. 51"x 120" | |
| rubber filler pcs. | corr. roof & skylight | 120 L.F. | |
| corr. alum end wall flashing | corr. roof & skylight | 32 L.F. | |
| box alum. roofing nails w/ gaskets | corr. roof & skylight | | |
| Corrulux #202 (sky green) corr. fiberglass (to match roof corrugations) | skylights | 2 pc. 26"x 96" | |
| 1½"x1½" alum. roof edge | roof | 5/10 ft. | |
| plastic Poly Hinge 1½" wide | opening windows vent & bath door | 32 L.F. | Atlas Minerals & Chemicals Mertztown, Penn. 19539 (4 ft. pre-punched strip $1.98) |
| 18" dia. plastic hemisphere w/ ¾" lip | bubble window | 1 | Mail Order Plastics 56 Lispenard St. N.Y., N.Y. 10013 ($15.00) |
| non-yellowing .080" thick plastic | windows | approx. 140 S.F. | |
| 3"x3"x¼" th. steel angle | floor, roof, & loft supports | 8/4 ft. 2/8 ft. | local steel fabricator |
| concrete | foundations | as req. | |
| 14" dia. cardboard tube | foundation piers | see dwgs. | Sonoco Products Co. Hartsville, So. Carolina 29550 (distributors across U.S.) |
| column base strap anchor—Simpson #CB66 | foundations | 4 | Seidel Co. 4110 Dumbarton Rd. Houston, Texas 77025 ($4.55 ea. + sh.) |
| ½" dia. reinforcing bar | foundations | see dwgs. | |
| **Furnishings & Fixtures** | | | |
| lp gas stove | kitchen | 1 | Sears #28-K-49128 |
| 1.5 c.f. mini refrigerator | kitchen | 1 | Sears #34-K-7387N |
| SS sink w/ faucet | kitchen | 1 | Sears #65-K-6805 |
| toilet | bath | 1 | Sears #W42-K-49291N2 |
| toilet seat | bath | 1 | Sears #42-K-3771 |
| 10 gal. hot water heater | kitchen | 1 | Sears #42-K-32101L |
| water heater safety valve | kitchen | 1 | Sears #42-K-1775 |
| faucet | bath sink | 1 | Sears #42-K-2189 |
| 48"x74" foam mattress | bed/ couch | 1 | Sears #1-K-81008N |
| 54"x75" foam mattress | loft | 1 | Sears # 1-K-76604N |
| wood primer | prime all wood to be painted | 3 | Sears #30-K-68545C |
| marine epoxy polyurethane (satin) | kitchen/bath<br>kitchen/bath | 2<br>1 | Sears #30-K-63324<br>Sears #30-K-60194 |

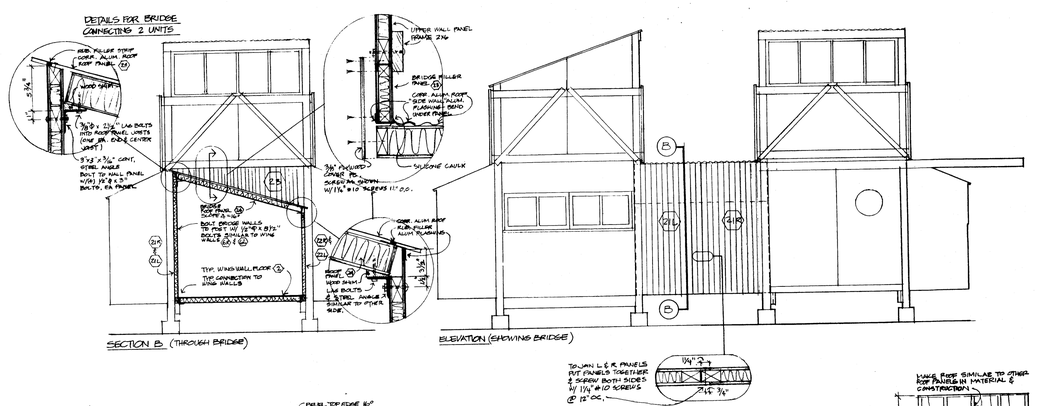
| Item | Use | Quantity | Source |
|---|---|---|---|
| oil paint | frame & furniture | as req. | owner's selection |
| Ashley wood burning heater model #23HF | heater | 1 | Ashley Automatic Heater Co. P.O. Box 730 Sheffield, Alabama 35660 |
| **Plumbing** | | | |
| water supply—HPVC pipe & fittings: | | | |
| ½"x10' pipe | see drawings | 3 | Sears #42-K-51341N |
| ½" elbow | see drawings | 17 | Sears #42-K-51361 |
| ½" tee | see drawings | 6 | Sears #42-K-51381 |
| ½" female adapters | shower | 5 | Sears #42-K-51431 |
| ½" male adapters | sinks & toilet | 4 | Sears #42-K-51421 |
| ¾" female adapters | hot water heater | 2 | Sears #42-K-51433 |
| ¾" bushings | hot water heater | 2 | Sears #42-K-51391 |
| hot water htr. connectors | hot water heater | 1 pair | Sears #42-K-16996 |
| shower faucet | shower | 1 | Sears #42-K-2154 |
| shower head | shower | 1 | Sears #42-K-2025 |
| solvent | glue pipes | 1 | Sears #42-K-51461 |
| pipe straps | attach pipes to wall | 2 | Sears #42-K-51412 |
| plastic drainage pipe & fittings: | | | |
| 3"x10" pipe | see drawings | 1 | Sears #42-K-51012N |
| 1½"x10' pipe | see drawings | 1 | Sears #42-K-51011N |
| 3"x1½" tee reducer | sink drains | 2 | Sears #42-K-51023 |
| 3" tee | toilet | 1 | Sears #42-K-51022 |
| 3" elbow | toilet | 1 | Sears #42-K-51052 |
| closet flange | toilet | 1 | Sears #42-K-51022 |
| 1½" elbow | kitchen sink drain | 1 | Sears #42-K-51051 |
| p-traps | kitchen & bath drain | 2 | Sears #42-K-51112 |
| 1½" to 1½" adapter | kitchen sink drain | 1 | Sears #42-K-51282 |
| 1½" to 1¼" adapter | bath sink drain | 1 | Sears #42-K-51281 |
| basket strainer | floor drain | 1 | Sears #42-K-1907 |
| (get perf. cover @ hdwre. store) | | | |
| solvent | pipe glue | 1 | Sears #42-K-51141 |
| **Electrical** | | | |
| The lighting fixtures used in the prototype: | | | |
| yard light | outside over porch | 1 | Sears #34AF3534 |
| ceramic receptacle | kitchen & bath | 2 | Sears #34-K-6044 |

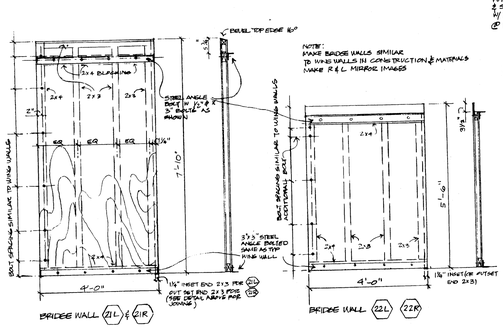
The approach to wiring in the prototype was to surface-mount all wire, (we used Flexible Armored Cable, primarily for looks) junction and outlet boxes, etc. All of the electrical hardware needed is available through the Sears catalog. Wiring should not be attempted without some knowledge about the subject, and that would be far too complicated for these plans to go into. A good book that explains wiring in simple terms is:

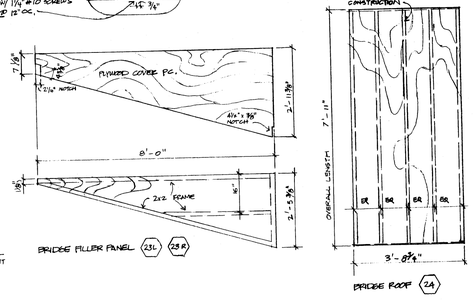
*Wiring Simplified*, H. P. Richter. $1.25 postpaid from: Park Publishing Co. Box 8527, Lake St. Sta. Minneapolis, Minn. 55408







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