

ALADDIN

fully demountable

FIVE-MAN HUTS

DESIGNED FOR AND IN USE BY THE U. S. ARMY AND AIR CORPS



These Aladdin 5-Man Demountable Huts are designed after careful study of those Huts at present in use in the armed services.

Factory production-line efficiency has made possible a most substantial reduction in cost per hut (and lower cost per man housed).

Redesigning of panel sizes enables two men to handle any panel. Roof panel weights have been reduced from 315 pounds to 94 pounds each. All panels are built with lap joints, making them wind, rain and weather proof and eliminating necessity of using roofing felt and lath strips on the outside walls.

Lumber footage and metal parts have been reduced by over one-third, yet we have increased strength, doubled the number of studs, maintained full insulation values and supplied a fully insulated double floor in which no joints are visible. Salvage value exceeds 95% inasmuch as the only lost material is represented by the six inch roofing tape cemented to roof panel joints. These Huts have been reduced in weight (and freight costs) by over one ton.

Price, protectively crated for shipment F.O.B. The Aladdin Company plant at Bay City, Michigan or F.O.B. The Aladdin Company plant at Portland Oregon is under \$300.00. Combined plant capacity approximates one hundred Huts per day. Write or wire for prices.

Photo below shows one complete hut loaded on truck.



Walls and roof panels fabricated with 25/32 asphalt impregnated fibre board. Floors of 4 or 6 inch tongued and grooved flooring over laying subfloor of same fibre board.



Furnished in same construction as either Style A or Style C.



Wall panels fabricated of 3/4 inch waterproof plywood (lap joints); roof of 25/32 fibre board and insulated with 1/4 inch plywood under the rafters, giving 4 inch dead air space; single floors of 4 or 6 inch tongued and grooved flooring, one coat of primer.

ALADDIN 5-MAN HUT *Style A* ★

Walls, roof and sub-floor of Style A Hut are fabricated of 25/32 inch fibre board, which has been impregnated with asphaltum. All exterior surfaces are therefore thoroughly waterproof. In addition this board has a thermal efficiency of .324. The double bituminous coating further increases protection against weather, moisture and wind. All panels are constructed with lap joints eliminating the necessity of any form of moulding or strips over

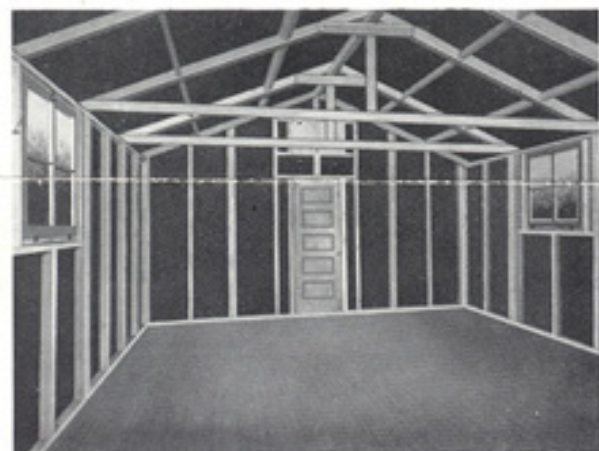
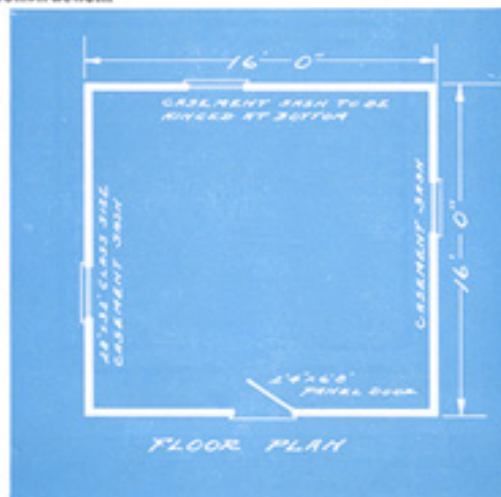


Photo shows studding, rafter and collar beam construction.

tion. Louvers in gables are protected from weather and rain by shutters, opening from inside the hut. Note how walls and roof are strengthened by wall ties and collar beams (see interior photo). Complete door and window frames are furnished including weather sills. Four or six inch tongued and grooved flooring overlays 25/32 insulation board. See specifications pg. 4.

Roof panel joints are further protected with canvas strips laid in asphaltum and asphalt paint is furnished for covering the entire roof. (See "Water Test" on this page). No joints are visible in floor panels after being laid. Three casement windows, door and two ventilating louvers afford maximum light and ventila-



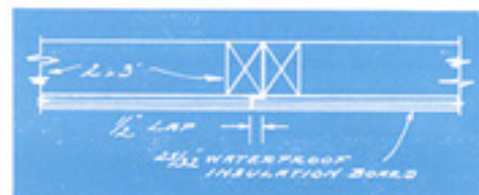
Floor plan of Style A and Style B. Style C has screened shutters on each side and casement window in rear.

24-HOUR WATER TEST

Among other tests given this Aladdin Hut by the Commanding Officers at a Michigan Air Corps Camp, was a 24 hour water test. A large fire hose was turned on the roof and sides for a period of 24 hours, seeking any failure of panel joints, or absorption of moisture. At the end of the test no evidence of penetration either in the material itself, or through structural joints was found.

20° BELOW ZERO

Based on 20° below zero, to maintain 70° above zero inside Hut (temperature difference 90°) requires 5.9 lbs. of coal per hour, with coal at 14,000 BTU per pound at 50% efficiency. This is but .72 lb. more per hour than conventional wall construction of wood sheathing plus 1/2 inch insulation board plus building paper. This construction affords equal insulation against extremes of sun and heat.



Drawing shows how wall board laps joint in panel studding and rafters, making perfect closures.



ALADDIN 5-MAN HUT *Style B*

Style B Hut was designed in collaboration with the commandant of one of the country's most important training fields. Its outstanding feature is the ventilating deck panel located between the upper and lower roof structures. This is clearly illustrated in the photograph of the interior shown on this page. This ventilating panel extends 15 ft. across the building with a fully screened depth of 8 inches. Hinged shutters are provided to close this aperture in cold weather or during rains. Roof overhang makes closing of shutters unnecessary during any but the severest driving rains. Front wall is 9' 6" high, rear wall 6' 6" high. A 6 x 8 inch built-up beam across the center of Hut gives excess strength for the heaviest snow loads. Has salvage value when taken down exceeding 95%. See Specifications page 4.



ERECTION TIME

Five enlisted men erected this Aladdin Hut in one hour and fifteen minutes at a Michigan Air Corps Camp. To determine the demontability they were asked to take it down and did so in exactly thirty-two minutes. Material loss was limited to six inch impregnated canvas strips covering panel joints in roof.



Photo of interior showing 15 ft. screened and shuttered ventilator, and 6 x 8 inch beam supporting roof.



First step, laying floor section.



Raising rear wall sections.



View of rear of Hut.



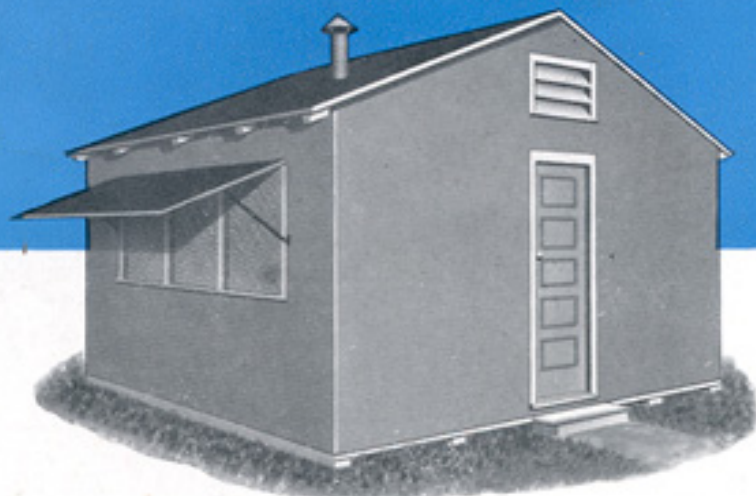
Unloading one complete Hut from truck.



ALADDIN 5-MAN PLYWOOD HUT

STYLE C

Designed for tropic temperatures, Style C is sturdily built and fully demountable with a salvage value of over 95%. Screened ventilating openings on each side are provided with shutters for shade as well as protection, when closed against inclement weather. One casement window is located in rear wall. The roof is built double having 25/32 inch fibre board, asphalt impregnated, to the weather. Plywood lining is supplied for under side of rafters. This provides 4 inch dead air space insulation against the hot sun. Walls and roof are designed with lap joint panels. Complete closure is thus provided without applying panel strips to joints. Screened gable louvers with inside shutter add to ventilation factors. One coat of filler is applied to all exterior walls, while the windows and doors are primed both sides.



ALADDIN 16 x 16 PLYWOOD HUT

Rear Window Affords Light When Shutters Are Closed.

37 YEAR'S EXPERIENCE MANUFACTURING READI-CUT AND PREFABRICATED HOUSES

SPECIFICATIONS— STYLES A & B

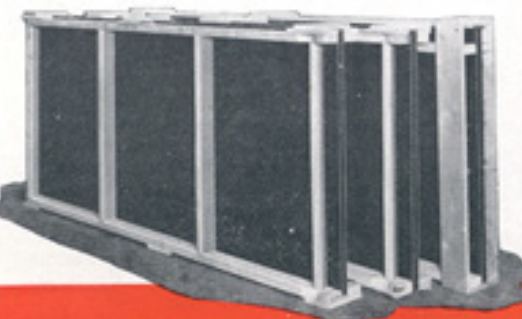
Scope of Work The prefabrication of all panels as shown on blue print, including labor, materials and appliances required for rough and finished carpentry, including rough hardware such as bolts, washers, nails, duplex head nails, etc., and application of finished hardware as shown on drawing and necessary to complete work. Also loading the huts in cars F.O.B. our mill.

Lumber Lumber for framing shall be Number 2 Common of one of the following species:—Southern Pine, Northern Hemlock, Western Fir, Western Hemlock, Spruce or Redwood. Finish floor shall be 1 x 4 or 1 x 6 Tongue and Groove D and better Yellow Pine, Fir or Western Hemlock.

Sills and Joists Will be 2 x 6, 2 x 4 and 2 x 3 as shown on blue print. Floor panels set with crown edge up and securely spiked and bored for bolts as shown on print.

Sub-Floor 25/32" waterproof insulating board in sheets 4' x 8'.

Showing panels protectively crated, back to back, for shipment by freight or truck.



Finish Floor As stated under the heading of lumber 1 x 4 or 1 x 6 T & G.

Walls Prefabricated as shown on blue print, 2" x 3" studs and plates covered with 25/32" thick waterproof insulating board. All panels overlap to make weather proof joint.

Casement Windows Complete with frame, trim, glazed sash—glass size 24" x 42"—16 mesh galvanized wire screen and hardware installed in wall panels. Sash hinged at bottom.

Door Solid stiles and rails with moldings worked on. Solid panels. Door attached to door frame with pair 3 1/2" x 3 1/2" loose pin butts, and equipped with lock set.

Window and Door Frames Will be manufactured of No. 1 frame stock and sash made in accordance with accepted trade practice. Sash will be putty glazed. Door frame and door will be assembled but will be nailed in place after panels are erected.

Two Louvers Will be complete with 16 mesh galvanized screen and shutter but are to be placed after panels are erected. Louvers not included with Style B.

Roof Panels Built up of 2 x 4 as shown on blue print, overlaid with 25/32" water proof insulating board. Each panel 4' wide. Panels built with lap joints and at time of erection each joint is to be painted with liquid cement, and after all panels are in position a 6" strip of water proofed canvas is to be cemented over each joint and then entire roof to be painted with a liquid cement composed of a bituminous base mixed with asbestos fibers that will form a tough impervious coating over the entire roof surface. It will not crack, chip or become brittle. The sun will not blister it, steam, acid and alkali fumes have no effect

upon it. It is easily applied with an ordinary point brush. This liquid cement is supplied by us. 1/2 inch insulation board supplied to apply at under side of rafters and to be applied after erection.

Smoke Jack Will be constructed of 26 gauge galvanized iron complete with flashing and hood.

SPECIFICATIONS— STYLE C

Floor Western Fir, Western Hemlock or Southern Pine 1 x 4' or 1 x 6' T & G.

Walls 2 x 3 studs to which is applied 3/8 inch water proofed plywood with lap joint.

Roof Panels built of 2 x 4 with 25/32 inch fibre board impregnated with asphalt. Joints are lapped and covered with 6 inch strip of water proofed canvas which is cemented to each joint, and followed by application of liquid cement as described in specifications of Style A and B. Plywood sheets, cut to size are supplied to place on under side of rafters after erection, giving 4 inch dead air space insulation.

Window Openings Glazed casement window in rear. Fixed screen shuttered openings at sides of building.

Door Same as described for Style A and B.

Window and Door Frames Same as described for Style A and B.

Floors Single of 1 x 4 or 1 x 6 T and G.

Louvers Same as for Style A.

Smoke Jack Same as for Style A and B.

USES: Officers Quarters—EM Barracks—Field Hospitals—Bath Houses
Field Offices—Radio Huts—Guard Houses—Contagious Wards.

WRITE, WIRE OR PHONE FOR PRICES

THE ALADDIN COMPANY

OFFICES AND MILLS
BAY CITY, MICH.

GENERAL OFFICES
BAY CITY, MICHIGAN

OFFICES AND MILLS
PORTLAND, OREGON