

MIL-B-52071C
19 April 1973
SUPERSEDING
MIL-B-0052071B(ME)
21 July 1972
MIL-B-52071A
16 January 1963

MILITARY SPECIFICATION

BUILDING, PREFABRICATED, READY-CUT, BARRACKS - TYPE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers a prefabricated barracks building with widening provisions.

1.2 Classification. The basic 20-foot by 50-foot building shall be furnished in the following phase or phases, as specified (see 6.2):

Phase I - Roof and frame components (see 3.7.1).

Phase II - Exterior wall components (see 3.7.2).

Phase III - Floor components (see 3.7.3).

Phase IV - Insulation and interior components (see 3.7.4).

Widening kits shall be furnished with the specified phases when a 30-foot by 50-foot building is required, or furnished separately for field widening, as specified (see 6.2).

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this specification to the extent specified herein:

SPECIFICATIONS

Federal

L-P-391

L-S-125

- Plastic Sheets, Rods and Tubing, Rigid, Cast, Methacrylate (Multiapplication).
- Screening, Insect, Nonmetallic.

FSC 5410

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FF-B-575
FF-H-106

FF-H-116
FF-N-836

FF-T-791
FF-W-92
MM-L-751
NN-P-530
QQ-S-741

QQ-S-775
QQ-S-781
RR-W-365
SS-C-153
GGG-P-831

LLL-B-810

LLL-D-581
PPP-B-636
PPP-B-1055

PPP-T-76

- Bolts, Hexagon and Square.
- Hardware, Builders'; Locks and Door Trim.
- Hinges, Hardware, Builders'.
- Nut: Square, Hexagon, Cap, Slotted, Castle, Knurled, Welding and Single Ball Seat.
- Turnbuckle.
- Washers, Metal, Flat (Plain).
- Lumber, Softwood.
- Plywood, Flat Panel.
- Steel, Carbon: Structural Shapes; Plates; and Bars.
- Steel Sheets, Carbon, Zinc-Coated.
- Strapping, Steel, Flat and Seals.
- Wire Fabric (Insect Screening).
- Cement; Bituminous, Plastic.
- Punches; Center, Coopers', Drive Pin, Aligning, and Prick.
- Building Board, (Hard Board) Hard Pressed, Vegetable Fiber.
- Doors, Wood, Exterior and Interior.
- Boxes, Shipping, Fiberboard.
- Barrier Material, Waterproofed, Flexible.
- Tape, Pressure-Sensitive Adhesive Paper, (for Carton Sealing).

Military

MIL-P-116
MIL-T-704
MIL-B-2435

MIL-I-22023

- Preservation, Methods of.
- Treatment and Painting of Materiel.
- Building Paper, Vegetable Fiber of Inorganic Fiber Reinforcement, Reflective.
- Insulation Felt, Thermal and Sound Absorbing Felt, Fibrous Glass, Flexible.

STANDARDS

Military

MIL-STD-105

- Sampling Procedures and Tables for Inspection by Attributes.

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MIL-STD-129
MIL-STD-130

- Marking for Shipment and Storage.
- Identification Marking of US Military Property.

DRAWINGS

ME

- | | |
|-------------|---------------------------------------|
| D11201-1 | - Building, Prefabricated, Ready-Cut, |
| through -20 | Barracks Type, Phase I. |
| D11300-1 | - Building, Prefabricated, Ready-Cut, |
| through -10 | Barracks Type, Phase II. |
| D11301-1 | - Building, Prefabricated, Ready-Cut, |
| through -4 | Barracks Type, Phase III. |
| D11302-1 | - Building, Prefabricated, Ready-Cut, |
| through -7 | Barracks Type, Phase IV. |
| D11341-1 | - Building, Prefabricated, Ready-Cut, |
| through -13 | Barracks Type, Packing for Shipment. |

(Copies of specifications, standards, and drawings required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

A570

- Hot-Rolled Carbon Steel Sheets and Strip, Structural Quality.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Boiler and Pressure Vessel Code, Welding Qualifications.

(Application for copies should be addressed to the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.)

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AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

ANS B18.6.4 - Slotted and Recessed Head Tapping Screws and
Metallic Drive Screws.

(Application for copies should be addressed to the American National
Standards Institute, Inc., 1430 Broadway, New York, NY 10018.)

AMERICAN WELDING SOCIETY

AWS B3.0 - Standard Qualification Procedure.

(Application for copies should be addressed to the American Welding
Society, 2501 Northwest Seventh St., Miami, FL 33125.)

UNIFORM CLASSIFICATION COMMITTEE, AGENT

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classifica-
tion Committee, ATTN: Tariff Publishing Officer, Room 1106, 222 South
Riverside Plaza, Chicago, IL 60606.)

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC., AGENT

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking
Associations, Inc., ATTN: Tariff Order Section, 1616 P Street NW,
Washington, DC 20036.)

3. REQUIREMENTS

3.1 Description. The building shall be in accordance with the drawings
(see 2.1) and as specified herein.

3.1.1 Drawings. The drawings forming a part of this specification are
end product drawings. No deviation from the prescribed dimensions or
tolerances is permissible without prior approval of the contracting officer.
Any data (e.g. shop drawings, layouts, flow sheets, processing procedures,
etc.) prepared by the supplier or obtained from a vendor to support fabrica-
tion and manufacture of the production item shall be made available, upon
request, for inspection by the contracting officer or his designated
representative.

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3.2 First article (preproduction model). The supplier shall furnish one or more building phases for examination and testing within the time frame specified (see 6.2), to prove prior to starting production that his production methods will produce buildings that comply with the requirements of this specification. Examination and tests shall be as specified in section 4 and unless otherwise specified herein, all examination and tests shall be conducted by the supplier subject to surveillance and approval by the Government (see 6.3). When specified (see 6.2), the Government will conduct any or all of the preproduction examination and tests, as specified (see 6.2).

3.2.1 Preproduction building phases. When phase I and any or all sequential phases are specified, the building shall be erected as specified in 4.6.2. When only phase I is specified, a partial structure of one complete 20-foot end bay shall be erected. When phase I is not specified and any other phase or phases is specified, the erection test is not required.

3.3 Initial production. When specified (see 6.2), the supplier shall furnish to the Government one or more of each building phase for inspection as specified in 4.4.

3.4 Material. Material shall be as specified herein and as shown on the applicable drawings. Materials not specified shall be selected by the supplier and shall be subject to all provisions of this specification.

3.5 Identification marking. Each building shall be identified in accordance with MIL-STD-130.

3.6 Stenciling. The erection mark of each component of the building shall be stenciled on the component or on an attached metal tag on rods and other narrow items. Marking shall be Gothic-type capitals and Arabic numerals of a legible size but not less than 1 inch high. Stenciling shall be in accordance with MIL-T-704.

3.7 Building phases.

3.7.1 Phase I, roof and frame components. Phase I components shall be in accordance with Drawings D11201-1 through -20.

3.7.1.1 Steel.

3.7.1.1.1 Sheet and strip steel. Sheet and strip steel shall conform to ASTM A570, grade C.

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3.7.1.1.2 Plate, shapes, and bar steel. Plate, shapes, and bar steel shall conform to QQ-S-741, grade B.

3.7.1.2 Galvanized steel. Galvanized steel for the outside covering shall conform to QQ-S-775, type II, class C, except that flashing shall be type I, class C.

3.7.1.3 Door jambs and headers. Door jambs and headers shall be fabricated from lumber conforming to MM-L-751, Douglas Fir or Ponderosa, or Southern Pine, moisture content not more than 15 percent, S4S, No. 2 grade.

3.7.1.4 Caulking compound. The caulking compound shall be provided in sealed 0.1-gallon-capacity cartridges. A gun applicator shall be furnished with each building. The caulking compound shall conform to SS-C-153, type I.

3.7.1.5 Closure or filler strips. Closure or filler strips of rubber or synthetic rubber composition shall be of the same configuration as the cladding. The strips shall be not less than 1 inch wide and 24 inches long.

3.7.1.6 Fasteners.

3.7.1.6.1 Nails. Common nails, finish nails, flat-head roofing nails, and duplex-head nails shall be made from steel wire and shall be galvanized.

3.7.1.6.2 Nuts. Nuts shall conform to FF-N-836, type II, style 4, cadmium- or zinc-coated steel.

3.7.1.6.3 Bolts. Bolts shall conform to FF-B-575, type 2, cadmium- or zinc-coated steel.

3.7.1.6.4 Washers. Washers shall conform to FF-W-92, type A, grade I, class A, medium weight, zinc- or cadmium-plated. Synthetic rubber sealing washers may or may not be laminated to the metal washers to make combination washers. Combination washers shall be close fitted to all duplex-head nails and sheet-metal screws specified on the drawings and shall be of a size and shape to suit application.

3.7.1.6.5 Sheet-metal and self-tapping screws. Sheet-metal screws and self-tapping screws shall have slotted hexagon heads and shall conform to ANS B18.6.4, type A and type F, respectively, and shall be galvanized or cadmium-plated.

3.7.1.6.6 Wood screws. Wood screws shall be flat-head, slotted, steel, cadmium-coated.

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3.7.1.7 Turnbuckles. Turnbuckles shall conform to FF-T-791, type I, form 2, class 2, zinc-plated.

3.7.1.8 Punches. Punches shall conform to GGG-P-831, type VIII, class A, size 3, except a point shall be ground as shown on Drawing D11201-10.

3.7.1.9 Treatment and painting. All steel surfaces except galvanized surfaces shall be cleaned, treated, and painted in accordance with MIL-T-704, type C. The dry film of the enamel applied shall be not less than 1.5 mils thick.

3.7.2 Phase II, exterior wall components. Phase II components shall be in accordance with Drawings D11300-1 through -10.

3.7.2.1 Galvanized steel. Galvanized steel for exterior walls and flashing shall be as specified in 3.7.1.2.

3.7.2.2 Windows. All windows and screen sections shall be fabricated from steel having a minimum yield strength of 33,000 psi and shall be zinc coated after fabrication. Glazing shall be as specified in 3.7.2.2.1, and screening shall be as specified in 3.7.2.2.2. Caulking and retaining splines for glazing and insect screening shall be of vinyl plastic. Locking mechanisms shall be corrosion-resisting steel. All windows shall be furnished completely assembled with plastic glazing, screen panels, and hardware in place.

3.7.2.2.1 Glazing. Glazing for all windows shall be transparent, colorless, masked, cast acrylic sheets conforming to L-P-391, nominal thickness 0.080-inch.

3.7.2.2.2 Insect screening. Insect screening shall be either wire screening conforming to RR-W-365, type IV, class I, or plastic-coated fibrous glass screening conforming to L-S-125, type II.

3.7.2.3 Doors.

3.7.2.3.1 Personnel doors. The doors shall conform to LLL-D-581, type I, style 1, 1-3/8 inches thick, grade 2 face veneer, waterproof glue. Doors shall be gained for hinges and other hardware. Each door shall be furnished with 4- by 4-inch, loose-pin butt, zinc-, cadmium- or zinc-chromate-coated hinges conforming to FF-H-116, type 2127H. Each door shall be complete with latch sets, nuts, bolts, screws, and all other necessary hardware and accessories for installation and operation. The latch set shall conform to FF-H-106, series 160, type A.

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3.7.2.3.2 Screen door. The screen door shall be 1-1/8-inch-thick wood. The insect screening shall be as specified in 3.7.2.2.2. The bottom panel shall have 1/2- by 1/2-inch galvanized hardware cloth applied over the screening. The door shall be gained for hinges. Each door shall be furnished with three 3-inch by 2-1/8-inch loose-pin butt, zinc-, cadmium-, or zinc-chromate-coated hinges; a heavy-duty, galvanized steel coil spring with attaching galvanized eye bolts; and a zinc- or cadmium-coated steel door handle.

3.7.2.4 Closure or filler strip. Closure or filler strips for the exterior wall shall be as specified in 3.7.1.5.

3.7.2.5 Fasteners. Fasteners shall be as specified in 3.7.1.6.

3.7.2.6 Caulking compound. Caulking compound shall be furnished as specified in 3.7.1.4.

3.7.2.7 Treatment and painting.

3.7.2.7.1 Metal surfaces. Steel surfaces shall be treated and painted as specified in 3.7.1.9.

3.7.2.7.2 Doors and door framing. Wood doors and door framing shall be cleaned, treated, and painted in accordance with MIL-T-704, type A. Application of the surface sealer shall be by dipping, as specified, or by brushing two coats on the surfaces, allowing the first coat to penetrate before applying the second coat. Any surfaces that are cut after treatment shall be given two brush coats of the sealer.

3.7.3 Phase III, floor components. Phase III components shall be in accordance with Drawings D11301-1 through -4.

3.7.3.1 Floor framing. Floor beams, joists, and pedestals shall be of steel as specified in 3.7.1.1.

3.7.3.2 Plywood flooring. Plywood floor panels shall conform to NN-P-530, group B or C, exterior type, grade A-C, 1/2 inch thick.

3.7.3.3 Reflective insulation. Reflective insulation conforming to MIL-B-2435 shall be provided for the floors.

3.7.3.4 Fasteners. Fasteners shall be as specified in 3.7.1.6.

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3.7.3.5 Treatment and painting.

3.7.3.5.1 Steel. All steel surfaces shall be treated and painted as specified in 3.7.1.9.

3.7.3.5.2 Flooring. All surfaces of the floor panels shall be treated and painted in accordance with 3.7.2.7.2.

3.7.4 Phase IV, insulation and interior components. Phase IV components shall be in accordance with Drawings D11302-1 through -7.

3.7.4.1 Felt-type insulation. Fibrous-glass felt-type insulation shall conform to MIL-I-22023, type I, class 3, 1 inch thick, 48 inches and 18 inches wide. The insulation shall be faced on one side with reinforced asphalt vapor barrier conforming to PPP-B-1055, class E-1. The vapor barrier shall be 52 inches wide and shall be bonded to the insulation material so as to provide a 2-inch continuous stapling tab along each edge. The length of the roll shall be as specified on the drawings.

3.7.4.2 Hardboard liner. Hardboard liner shall conform to LLL-B-810, type III, surface 2, finish D, design A, 1/8 inch thick for the interior wall and ceiling and 3/16 inch thick for the battens.

3.7.4.3 Flashing. Flashing shall be as specified in 3.7.1.2.

3.7.4.4 Wall trim. Wall trim (shoe mold) shall be quarter-round standard grade Douglas Fir, Southern Pine, or Ponderosa Pine.

3.7.4.5 Fasteners. Nails shall conform to 3.7.1.6.1. Staples shall be fabricated from steel, heavy duty (0.050 inch wire), 3/8-inch size, coated to resist corrosion.

3.7.4.6 Stapler. The staple gun shall be heavy duty, manually operated, steel with corrosion-resistant finish, for 3/8-inch-size staples.

3.7.4.7 Treatment and painting.

3.7.4.7.1 Wall trim. The wall trim (shoe mold) shall be cleaned and treated as specified in 3.7.2.7.2.

3.7.4.7.2 Metal splines. After fabrication, metal splines shall be cleaned and treated as specified in 3.7.1.9.

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3.8 Erection manual. Three erection manuals shall be furnished with each building. The manuals shall consist of isometric or perspective line drawings and pertinent details showing each successive step in field erection. Included in the manuals shall be a complete bill of material, erection diagrams, a packing list and one set of reduced-size prints of applicable drawings showing the following:

- (a) Typical foundation details and anchor bolt layout.
- (b) Wall and roof frame layout.
- (c) Wall and roof sheet layout.
- (d) Details and typical sections of door, ventilators, and base ventilators.
- (e) Layout and details for erection, including, but not limited to, special instructions pertaining to flashing and weather-tight trim.

3.9 Workmanship.

3.9.1 Metal fabrication. Metal used in fabrication shall be free from kinks and sharp bends. The straightening of material shall be done by methods that will not cause injury to the material. Corners shall be square and true. Flame cutting, using tips suitable for the thickness of the steel, may be employed instead of shearing and sawing. All bends shall be made with controlled means to insure uniformity of size and shape. Precaution shall be taken to avoid overheating. Heated steel shall be allowed to cool slowly. External surfaces shall be free of burrs, sharp edges and corners, except when sharp edges or corners are required or where they are not detrimental to safety.

3.9.2 Welding. The surfaces of parts to be welded shall be free from rust, scale, paint, grease, and mill scale that can be removed by chipping and wire brushing, and other foreign matter. Welds shall transmit stress without permanent deformation or failure when the parts connected by the welds are subjected to proof and service loading. Parent materials, weld filler metals, and fabrication techniques shall be as required to enable the building to conform to the examination and test requirements specified in section 4. Parts to be joined by fillet welds shall be brought into as close contact as possible and in no event shall be separated by more than 1/16 inch, unless appropriate bridging techniques are used. Unless otherwise specified (see 6.2), the welding process used in fabrication of the building shall be at the option of the supplier.

3.9.3 Welders. Before assigning any welder to manual welding work covered by this specification, the supplier shall provide the contracting

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officer with certification that the welder has passed qualification tests as prescribed by either of the following listed codes for the type of welding operations to be performed and that such qualification is effective as defined by the particular code:

Standard Qualification Procedure of the American Welding Society.
Welding Qualifications of the ASME.

Suppliers who only make horizontal welds need not qualify welders for "all position welding". For purposes of this specification, operators of automatic welding equipment shall be considered welders.

3.9.4 Welding jigs. Shop fabricated components (except for minor parts) shall be assembled in steel jigs or frames and welded while held securely in position. Minor parts may be held together by any means that will insure secure and proper position. The jigs or frames shall be designed to minimize distortion of the parts being welded. Subsequent straightening and stress relieving of components fabricated from low-alloy and structural steels will be permitted if the straightening process does not damage the end item. Subsequent straightening of components fabricated from high-strength steel will be permitted; however, stress relieving shall not be permitted.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Component and material inspection. The supplier is responsible for insuring that components and materials used are manufactured, examined, and tested in accordance with referenced specifications and standards.

4.1.2 Acceptability criteria. Buildings which conform to all requirements in sections 3 and 5 of this specification and pass all applicable examinations and tests in section 4 of this specification will be considered acceptable by the Government.

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4.1.3 Disassembly inspection. Failure of any test by the preproduction model shall be cause for disassembly, in the presence of a Government representative, of the preproduction model to the extent necessary to determine the cause of the failure. Each disassembled part shall be examined in detail for compliance with this specification and referenced drawings in regard to materials, dimensions, tolerances, and workmanship. Parts not complying with such requirements shall be rejected.

4.2 Classification of inspection. Inspection shall be classified as follows:

- (a) Preproduction inspection (see 4.3).
- (b) Initial production inspection (see 4.4).
- (c) Quality conformance inspection (see 4.5).
- (d) Inspection comparison (see 4.7).
- (e) Inspection of preparation for delivery (see 4.8).

4.3 Preproduction inspection.

4.3.1 Examination. The preproduction model shall be examined as specified in 4.6.1. Presence of one or more defects shall be cause for rejection.

4.3.2 Test. The preproduction building shall be tested as specified in 4.6.2.1. Failure of the test shall be cause for performing the inspection specified in 4.1.3.

4.4 Initial production inspection. When specified (see 3.3), one or more initial production building phase or phases will be selected at random by the Government from the building phase being produced by production tooling and will be examined as specified in 4.6.1 and tested as specified in 4.6.2 to determine conformance to the requirements of this specification. The inspection will be performed by the Government at a site selected by the Government. Acceptance of an initial production building phase shall not exclude the remaining building phase from the quality conformance inspection and acceptance provisions specified in section 4. In addition to any test specified as part of the initial production test, the Government reserves the right to conduct any and all other tests contained in this specification as part of the initial production test and failure of such additional tests shall have the same effect as failure of those tests specified as initial production tests.

4.4.1 Inspection failure. Failure of an initial production building phase to meet any requirement specified herein during and as a result of the

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examination and tests specified in 4.4 shall be cause for rejection of the initial production building phase and shall be cause for refusal by the Government to continue acceptance of production building phases until evidence has been provided by the supplier that corrective action has been taken to eliminate the deficiencies. Correction of such deficiencies shall be accomplished by the supplier at no cost to the Government on building phases previously accepted and produced under the contract. Any deficiencies found as a result of the initial production inspection will be considered prima facie evidence that all building phases accepted prior to the completion of initial production inspection are similarly deficient unless evidence to the contrary is furnished by the supplier and such evidence is acceptable to the contracting officer.

4.5 Quality conformance inspection.

4.5.1 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.5.2 Examination. Samples of like components selected in accordance with 4.5.1 shall be examined as specified in 4.6.1. AQL shall be 4.0 percent defective.

4.6 Inspection procedure.

4.6.1 Examination. Each building phase shall be examined as specified herein for the following defects:

101. Any part or component not in accordance with the drawings.
102. Material not as specified.
103. Identification marking not as specified.
104. Stenciling and erection marking not as specified.
105. Components missing or not as specified.
106. Treatment and painting not as specified.
107. Erection manual not as specified.
108. Workmanship not as specified.

4.6.2 Test.

4.6.2.1 Erection. The building shall be erected from the randomly selected components in accordance with the Erection Manual. Failure of any component to assemble correctly, evidence of permanent deformation of components, or inadequate, ambiguous, incorrect, or unclear instructions in the Erection Manual shall constitute failure of the test (see 6.5).

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4.7 Inspection comparison. The Government may select buildings at any time during the contract production period and subject these buildings to the examination specified in 4.6.1 and the tests specified in 4.6.2 to determine conformance to the requirements of this specification. The inspection will be performed by the Government, at a site selected by the Government, on units selected at random from those which have been accepted by the Government and will not include the previously inspected preproduction model and initial production buildings. In addition to any test specified as part of the inspection comparison, the Government reserves the right to conduct any and all other tests contained in this specification as part of the inspection comparison and failure of such additional tests shall have the same effect as failure of those tests specified as inspection comparison.

4.7.1 Inspection failure. Failure of an inspection comparison building to meet any requirement specified herein during and as a result of the examination and tests specified in 4.7 shall be cause for rejection of the inspection comparison buildings and shall be cause for refusal by the Government to continue acceptance of production buildings until evidence has been provided by the supplier that corrective action has been taken to eliminate the deficiencies. Correction of such deficiencies shall be accomplished by the supplier at no cost to the Government on buildings previously accepted and produced under the contract. Any deficiencies found as a result of the inspection comparison will be considered prima facie evidence that all buildings accepted prior to the completion of inspection comparison are similarly deficient unless evidence to the contrary is furnished by the supplier and such evidence is acceptable to the contracting officer.

4.8 Inspection of preparation for delivery.

4.8.1 Preproduction-pack inspection.

4.8.1.1 Examination. The preproduction pack shall be examined for the defects specified in 4.8.2.4. Presence of one or more defects shall be cause for rejection.

4.8.2 Quality conformance inspection of pack.

4.8.2.1 Inspection stages. Inspection shall be in four stages as follows:

- (a) The first stage shall include inspection of materials, methods and packages before boxing and bundling is accomplished.

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- (b) The second stage shall include inspection of the boxed and bundled components.
- (c) The third stage shall include inspection of the consolidated components within the shipping containers and secured lifts.
- (d) The fourth stage shall include inspection of the closed, strapped and marked shipping containers and secured lifts.

4.8.2.2 Unit of product. For the purpose of inspection, all components that will comprise a complete pack prepared for any applicable stage of inspection shall be considered a unit of product.

4.8.2.3 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.8.2.4 Examination. Samples selected in accordance with 4.8.2.3 shall be examined for the following defects. Acceptable quality level (AQL) shall be 2.5 percent defective.

- 109. Preservative not applied to X-braces threads as specified.
- 110. Door jambs and insulation not wrapped, and wraps not secured as specified.
- 111. Preservative not applied to threads of turnbuckles and turnbuckles not wired together as specified.
- 112. Caulking guns and staplers not preserved individually as specified.
- 113. Preservative not applied to fasteners as specified.
- 114. Fasteners preserved together not of like description.
- 115. Column clips and girt clips not wired together in quantities required.
- 116. Boxing and bundling not in accordance with applicable drawing.
- 117. Consolidation of components for shipment not in accordance with applicable drawing.
- 118. Marking illegible, incorrect, incomplete or missing.
- 119. Materials, methods or containers not as specified. Each incorrect material, method, or container shall constitute one defect.

5. PREPARATION FOR DELIVERY

5.1 Preproduction pack. The supplier shall furnish a preproduction pack for examination within the time frame specified (see 6.2) to prove, prior to starting production packaging and packing, that the applied preservation, packaging, packing, and marking comply with the preparation for delivery requirements of this specification. Examination shall be as specified in

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section 4 and shall be subject to surveillance and approval by the Government (see 6.4). The preproduction pack may be accomplished utilizing either the preproduction model or a production model. If the preproduction model is utilized, any preservation, packaging, and packing shall be removed by the supplier at no expense to the Government, when requested by the Government to facilitate comparison between the preproduction model and production models.

5.2 Preservation and packaging. Preservation and packaging shall be level A or C, as specified (see 6.2).

5.2.1 Level A.

5.2.1.1 Cleaning, drying and preservatives. Surfaces on which preservative is to be applied shall be cleaned and dried in accordance with MIL-P-116. Type-P preservatives specified herein shall conform to the applicable specifications listed in and shall be applied in accordance with MIL-P-116.

5.2.1.2 Methods of preservation. Methods of preservation indicated herein by symbol shall conform to the requirements of corresponding symbols listed in MIL-P-116.

5.2.1.3 X-braces. The X-braces shall be preserved method I, applying type P-1 preservative to the threads.

5.2.1.4 Door jambs. The jamb members for each door shall be wrapped together with barrier material conforming to PPP-B-1055, class C-1. The barrier shall be secured with tape conforming to PPP-T-76.

5.2.1.5 Insulation. Each roll of insulation shall be wrapped with barrier material conforming to PPP-B-1055, class C-1. The barrier shall be secured with tape conforming to PPP-T-76.

5.2.1.6 Turnbuckles. The turnbuckles for each building phase shall be wired together with soft annealed wire. The threads of the turnbuckles shall be coated with type P-1 preservative.

5.2.1.7 Caulking guns and staplers. Caulking guns and staplers shall be individually preserved method III in a box conforming to PPP-B-636, W6c, style optional.

5.2.1.8 Fasteners and door hardware. Fasteners requiring the application of a contact preservative shall be coated with type P-7 preservative.

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Fasteners of like description shall then be preserved together method IC-2. Required door hardware shall be preserved together method IC-2. Boxes shall conform to PPP-B-636, type CF, class domestic, variety SW, grade as applicable for content weight, style optional.

5.2.1.9 Filler strips. Each roll of filler strips shall be preserved method IC-1.

5.2.1.10 Column clips and girt clips. The column clips and girt clips of like description in the quantities required for each building phase shall be wired together with soft annealed wire.

5.2.1.11 Technical publication and erection manuals. Technical publications and erection manuals shall be preserved together method IC-1.

5.2.1.12 Boxing and bundling. The components of the building shall be boxed and bundled in the quantities shown on drawing D11341-1 through -13. Flat steel strapping shall conform to QQ-S-781, type I, class B. Water-proof barrier material for wrapping the bundles shall conform to PPP-B-1055. Wraps shall be secured with tape conforming to PPP-T-76.

5.2.2 Level C. Components of the building, technical publications, and erection manuals shall be preserved and packaged to assure protection against deterioration and damage from the supplier to the initial destination.

5.3 Packing. Packing shall be level A, B, or C as specified (see 6.2).

5.3.1 Level A. Components comprising each complete building phase, boxed and bundled as specified in 5.2.1.12 shall be consolidated for shipment in crates and in secured lifts in accordance with applicable drawing D11341-1, -3, -4, -6, -8 and -10 through -13. Crates shall be closed and strapped in accordance with the crate specification. Flat steel strapping for secured lifts shall conform to QQ-S-781, type 1, class B, heavy duty.

5.3.2 Level B. Components comprising each complete building phase, boxed and bundled as specified in 5.2.1.12 and as shown on the applicable drawing D11341-2, -3, -5, -7 and -9 through -13 shall be shipped without overpacking.

5.3.3 Level C. Components of the building shall be packed to insure carrier acceptance and safe delivery to destination at lowest rating in compliance with Uniform Freight Classification rules or National Motor Freight Classification rules.

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5.4 Marking. In addition to any special marking required, packages, bundles, secured lifts and shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. The prefabricated building is intended for use as barracks or general purpose shelter. It is capable of being erected, dismantled, and re-erected by unskilled personnel without benefit of special tools.

6.2 Order data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Phase or phases required (see 1.2).
- (c) When widening kits are required (see 1.2).
- (d) Time frame required for submission of the preproduction model and number of models required (see 3.2).
- (e) When the Government will conduct any or all of the preproduction model examination and tests. When the Government will conduct some but not all of the preproduction examination and tests, the contracting officer should specify which examination and tests will be conducted by the Government and which examination and tests shall be conducted by the supplier (see 3.2).
- (f) When initial production inspection is required, and number of models to be furnished, when applicable (see 3.3).
- (g) When the welding process shall not be at the option of the supplier (see 3.9.2).
- (h) Time frame required for submission of the preproduction pack (see 5.1).
- (i) Level of preservation and packaging and level of packing required (see 5.2 and 5.3).

6.3 Preproduction model. Any changes or deviations of production buildings from the approved preproduction model building during production will be subject to approval of the contracting officer. Approval of the preproduction model will not relieve the supplier of his obligation to furnish buildings conforming to this specification.

6.4 Preproduction pack. Any changes or deviations of the production packs from the approved preproduction pack will be subject to the approval of the contracting officer. Approval of the preproduction pack will not relieve the supplier of his obligation to preserve, package, pack, and mark the prefabricated buildings in accordance with this specification.

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6.5 Test building acceptance. Upon completion of the test specified in 4.6.2.1, and if the preproduction model is to be furnished as part of the contract, the building should be disassembled, damaged parts and fasteners replaced, damaged protective coatings retouched, and new high strength steel bolts furnished. The outside covering used on the test building should not be furnished as part of the contract or purchase order.

6.6 Data requirements. The contracting officer should include requirements for such data as technical publications, instructional materials, and illustrated parts lists to be furnished with each building.

6.7 Provisioning. The contracting officer should include provisioning requirements for any special tools and instructions on shipment of buildings. A suggested paragraph is as follows:

"Shipment of buildings shall include operational instructions and accessories, unless exceptions are provided elsewhere in the contract."

Custodians:

Army - ME

Navy - YD

Air Force - 84

Review interest:

Army - CE

Preparing activity:

Army - ME

Project No. 5410-0153

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL		Form Approved Budget Bureau No. 22-R255
INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.		
SPECIFICATION MIL-B-52071C Building, Prefabricated, Ready-Cut, Barracks Type		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity - Optional)		DATE

DD FORM 1426
11 Oct 72 (Rev)

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED