

MIL-C-104B
INTERIM AMENDMENT 2(ME)
30 July 1987
USED IN LIEU OF
AMENDMENT 1
18 August 1982

MILITARY SPECIFICATION

CRATES, WOOD: LUMBER AND PLYWOOD

SHEATHED, NAILED AND BOLTED

This amendment forms a part of Military Specification MIL-C-104B, dated 29 January 1980, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

* 2.1, under STANDARDS, MILITARY, delete MIL-STD-1188 and MIL-STD-1363 in their entirety.

PAGE 3

* 2.2, under U. S. DEPARTMENT OF COMMERCE, delete PS 51 in its entirety and add:

"AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 2016 - Moisture Content of Wood.

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

AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI/HPMA HP 1983 - American National Standard for Hardwood and Decorative Plywood.

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

PAGE 4

* 3.3.5.2, lines 3 and 4, delete "PS-51, Grade 3-4, Type I" and substitute ANSI/HPMA-HP, grade 3-4, type I.

AMSC N/A

FSC 8115

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PAGE 10

* 3.4.1.1.2, delete first sentence and substitute: "Rubbing strips of 3-inch thick lumber, the same width as the skids, shall be attached to the skids with two staggered rows of nails spaced 12 inches apart in each row. The nails shall be driven through the rubbing strip into the skid, shall be of such length as to penetrate a minimum of approximately 70 percent of the skid thickness and shall not protrude through the skid."

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* 3.4.1.1.4, line 6, delete "42-inch" and substitute "48-inch".

PAGE 14

3.4.2, delete and substitute:

"3.4.2 Tops. Tops shall be double sheathed and shall be (a) narrow, widths through 54 inches; (b) intermediate, widths over 54 through 60 inches; or (c) wide, widths over 60 through 120 inches. Plywood sheathing, 1/4-inch thick, shall be attached to the lumber framing with its face grain parallel with the width of the top and its edges flush with the outside edges of the framing. All joints of the plywood sheathing shall be made over joists or other frame members. Roofing felt, or polyethylene film not less than 4 mils thick, shall be applied over the plywood with a minimum 4-inch overlap at joints. A nonhardening caulk or mastic shall be applied in the overlap area. Top sheathing boards not less than 4-inches wide shall be placed over the plywood sheathing and waterproof barrier and shall extend beyond the outer edges of the top framing by an amount equal to the thickness of side and end panel sheathing less 1/8-inch. Headers joining the joists together shall be 1-inch thick by the depth of the joists for intermediate and wide tops."

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3.4.2.7, delete last two sentences and substitute:

"Prior to securing the plywood to the joists or joint covers, caulk of a nonhardening type shall be applied at three places at each joint - between the plywood panels at their butt joint, and between the plywood and joint cover or joist on either side of the butt joint. The caulk shall be applied as a continuous bead and may be either preformed or applied with a gun."

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3.4.3.2.2, line 4, delete. "VIII" and substitute: "VII".

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- * 3.4.5.1.1, line 2, delete "3.3.5.4" and substitute "3.3.5.4.1".

PAGE 21

- * 3.5.3.2, line 1, delete "sides" and substitute "sizes".

PAGE 24

- * 4.5.2.1, line 2, delete "MIL-STD-1363" and substitute "ASTM D 2016".

PAGE 25

- * 5.1, delete "Commercial" and substitute "level C".

- * 5.1.2, delete in its entirety and substitute:

"Level C. Crates shall be shipped either unassembled or assembled as specified (see 6.2). When crates are to be shipped unassembled, they shall be secured as a bundle as specified in 5.1.1 for level A except that strapping shall be finish A. When crates are to be shipped assembled, they shall be assembled as specified in 3.4.5 or, as applicable, 3.5.5 except that strapping shall be omitted."

- * 5.2, delete in its entirety and substitute:

"5.2 Marking. Marking for shipment and storage shall be in accordance with MIL-STD-129."

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- * 6.2, add the following:

- "(j) When crates are to be shipped unassembled (see 5.1.2).
- (k) When crates are to be shipped assembled (see 5.1.2)."

PAGE 29

Table IX, title delete "Tar" and substitute: "Tare".

Page 31

Table X, 3rd column, heading, delete "1/2 in." and substitute: "1-1/2 in".

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TABLE XXIV, note column, delete "XVI" and substitute: "XXV".

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After 30.3, add new paragraph as follows:

"30.4 Center of balance. After crates are assembled and loaded, those over 10 feet long shall be marked to indicate the center of balance. Marking shall consist of a 1-inch wide vertical stripe on each side extending from the lower edge of the panel upwards about 12 inches. The stripes may be either red or black and shall have "CENTER OF BALANCE" stenciled or printed in 1-inch high letters adjacent to or above them. The markings should be of water-proof materials and shall be applied to assure easy legibility."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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Army - ME
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Air Force - 69

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Army - ME

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Review Activities:

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Navy - YD
Air Force - 99

User Activities:

Army - AT, ER
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