

METRIC

A-A-52520B

28 May 2008

SUPERSEDING

A-A-52520A

11 February 2008

COMMERCIAL ITEM DESCRIPTION

HARDWOOD; FLOORBOARDS AND PLATFORMS: FOR MILITARY VEHICLES (METRIC)

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. SCOPE. This CID covers hardwood floorboards and platforms fabricated for military vehicles.

2. SALIENT CHARACTERISTICS.

2.1 Materials. Unless otherwise specified herein, the materials used shall be in accordance with the manufacturer's materials specification for hardwood. The use of recovered materials made in compliance with regulatory requirements is acceptable provided all requirements of this CID are met.

2.1.1 Hardwood. Floorboards and Platforms shall be fabricated from species of hardwoods, unless otherwise specified (see 6.2). Hardwoods include species of maple, red or white oak, and American white ash (see table I). The use of species grown in lowlands or swamps is unacceptable. Hardwoods shall conform to NHLA Rules for the Measurement and inspection of hardwood and cypress lumber. Wood shall be free of defects that render it unsuitable for the intended use.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data that may improve this document should be sent to: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSRD-TAR-E/CM/DM/STND MS #268, 6501 E 11 Mile Road, Warren, MI 48397-5000 or by email at DAMI_STANDARDIZATION@conus.army.mil. Since contact information can change, you may want to verify the currency of this address using the ASSIST online database at <http://assist.daps.dla.mil>.

AMSC N/A

FSC 2510

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-52520B

TABLE I. Hardwoods.

Common Name	Species	Genus
Maple	Red Maple Sugar or Hard Maple Black Maple Silver Maple	Acer, Rubrem Acer, Saccharum Acer, Nigrum Acer, Saccharinum
Red Oak	Northern Red Oak Black Oak	Quercus, Rubba Quercus, Velutina
White Oak	White Oak Bur Oak Chestnut Oak	Quercus, Alba Quercus, Macrocarpa Quercus, Prinus
Ash	White Ash	Fraxinus, Americana
Apitong Keruing	Apitong Keruing	Dipterocarpaceae - Dipterocarpus

2.2 Moisture content. Unless otherwise specified (see 6.2) material used shall be air dried or kiln dried to a maximum moisture content of 15 percent or less at time of treatment. This shall be verified when tested to ASTM D4444.

2.3 Preservative treatment. Treatment shall be accomplished after all cutting, machining, or trimming has been accomplished. At the time of treatment, the moisture content shall be in accordance with the requirements noted in 2.2. Hardwood preservative treatment shall be a pressure treatment of light solvent solution of copper naphthenate, to a net minimum retention of 0.64 kilograms per cubic meter (kg/m³) [0.040 pound per cubic foot (pcf)] of copper as measured by gauge or assay method for the zone of 0 to 15 millimeters (mm) (0 to 0.6 inch). The copper naphthenate used in the treating solution shall comply with AWPA P8. The solution shall contain 1 percent copper but not less than 34 grams of copper per gallon at 16 degrees Celsius (°C) [60 degrees Fahrenheit (°F)]. Hardwood preservative treatment shall be monitored, tested, and checked using the appropriate procedures of AWPA C2.

- a. For white oak hardwood, treatment to refusal is allowable (see 6.3). The pressure and treatment during the pressure period shall be maintained constant or increased within a range consistence for the material being treated until the quantity of preservative during each of two consecutive half-hour periods is more than 2 percent of the amount already injected.
- b. For hardwood species an alternate non-pressure treatment is acceptable, if a high solvent solution of copper naphthenate is used, with a minimum net retention of 0.64

A-A-52520B

kg/m³ (0.040 pcf) of copper as measured by the assay method for the zone of 0 to 15 mm (0 to 0.6 inches). The copper naphthenate used in the treating solution shall comply with AWWA P8. The solution shall contain 2 percent copper but not less than 68 grams of copper per gallon at 16°C (60°F).

- c. If further modification is required after treatment, any new exposed surfaces from machining, cutting or trimming shall be treated with preservative.
- d. After treatment, the wood shall be free of tack and shall provide a paintable surface following 72 hours of drying. The surface of the treated dried wood shall be free from waxy, greasy, or oily deposit removable by rubbing with the finger and free from any glossy film resembling that of varnish. The paintable surface shall be compatible with Chemical Agent Resistant coatings MIL-DTL-53072 used by the military.

2.4 Hardwood defects. Material used in the fabrication of floorboard components shall conform to the requirements of 2.4 through 2.6.

2.4.1 Knots. No unsound knot or hole shall be permitted. Sound knots will be permitted, up to and including 25.4 mm (1 inch) in diameter. The sum of the diameters of all sound knots in any one-fourth length of a piece shall not exceed the width of the piece, nor shall any two knots of 25.4 mm (1 inch) or more in diameter be closer to each other than 20 centimeters (cm) (8 inches).

2.4.2 End splits. End splits, exceeding the width of the piece in length, shall not be permitted. End splits shall only be allowed in one end of board.

2.4.3 Warping. Maximum warping shall not exceed 12.7 mm (0.5 inch) per 30.5 cm (12 inches) length as defined in NHLA Rules for the Measurement of Hardwood and Cypress.

2.4.4 Hit-or-miss surfacing. Hit-or-miss surfacing, with skips not over 1.6 mm (0.06 inch) deep between them, shall be permitted on the underside of the floorboards, but all floorboards shall be full thickness at the ends and over the cross bolsters.

2.4.5 Wood destroying organism defects. Open channels not more than 3 mm (0.13 inch) deep and 12.7 cm (5 inches) long will be permitted on the face of the board. On the underside of the board, channels shall be not greater than 6 mm (0.25 inch) wide and 20 cm (8 inches) long. No defects shall extend through the thickness of the piece.

A-A-52520B

2.4.6 Secondary hardwood. Fabricated wood components shall be free from the following characteristics or imperfections to the extent that they shall not decrease the strength or serviceability or be otherwise detrimental to the required service of the component.

- Burls.
- Season checks.
- Sound stain or discoloration.
- Sound streaks.
- Small, sound, tight knots or small open knots.
- Short splits.
- Bark streaks and pockets.
- Wormholes, except buckshot wormholes in clusters.
- Bird peck.
- Bird's-eye.
- Slight vane on small pieces and medium vane on large pieces.
- Slight variation in thickness.
- Small end checks.
- Slight honeycomb.
- Occasional torn grain.
- Occasional rough or hit-and-miss surfacing.
- Other definitely minor imperfections.

2.5 Design and construction. Design and construction of floorboards and platforms shall conform to the applicable drawings and data supplied by the procuring activity (see 6.2).

2.5.1 Quality impairment. Defects in wood components (see 2.4) shall not impair the quality of the fitting of hardware, and when practicable shall not be located on the normally visible surface of the assembled body. No knot split or similar defect shall be permitted at a bolt, nail, screw, mortise, or notch, where it may impair the strength and serviceability of the component.

2.6 Identification and marking. Unless otherwise specified in applicable engineering drawings (AEDs), identification and marking of the lumber shall be permanent and legible and shall include, as a minimum, the AED part number, the manufacturer's CAGE code and date of manufacture (month and year) so that after assembly their identification marks shall be located on the top surface and 15.2 cm (6 inches) from the front end of the component.

3. **REGULATORY REQUIREMENTS**. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

A-A-52520B

4. PRODUCT CONFORMANCE

4.1 Product Conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

4.2 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

4.3 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description and that the product conforms to the producer's own drawings, specifications, workmanship standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to perform or witness any of the inspections it deems necessary to insure supplies and services conform to prescribed requirements.

5. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 6.2).

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Source of Documents.

6.1.2 ASTM International Standards are available from ASTM International 100 Barr Harbor Drive, West Conshohocken, PA 19428-2951 or on their website at www.astm.org.

6.1.3 AWPA standards are available from the American Wood Preserves Association P.O. Box 361784 Birmingham, AL 35236-1784 or online at www.awpa.com.

6.1.4 NHLA standards are available from the National Lumber Association, P.O. Box 34518, Memphis, TN 38134-0518 or online at www.natlhardwood.org.

6.2 Ordering data. The contract or order should specify the following:

- a. Title, Number and date of this CID.
- b. Selection of applicable levels of packaging requirements.
- c. If moisture content is other than as specified.
- d. Applicable drawings and data.

A-A-52520B

- e. If wood species are other than as specified.

6.3 Definitions.

- a. Refusal treatment. Treatment of wood under specified conditions until the quantity of preservatives absorbed in a given time is not more than a prescribed percentage of the amount already injected.
- b. Sound knot. A knot that is solid across its face, at least as hard as the surrounding wood and shows no indication of decay.

MILITARY INTERESTS:
ACTIVITY:

Custodians:

- Army - AT
- Air Force – 99
- Navy - MC

CIVIL AGENCY COORDINATING

GSA-FSS

Preparing Activity:
Army - AT

Review Activities:
Army - MD, MI
DLA – CC

(Project 2510-2008-002)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organization and responsibilities can change, you should verify the currency of the information above using the ASSIST database at <http://assist.daps.dla.mil>