

**PALLETIZATION & WPM REQUIREMENTS FOR THE
Defense Logistics Agency**

July 2008

1. NEW STANDARD TEXT OBJECT FOR ALL ITEM DESCRIPTIONS:

SEE [HTTP://WWW.DSCCL.DLA.MIL/OFFICES/PACKAGING](http://www.dsccl.dla.mil/offices/packaging) FOR PALLETIZATION REQUIREMENTS.

2. REVISIONS TO DLA PACKAGING WEB SITE:

IMPORTANT NOTICES!

- [Standardized Requirements for Palletization & Wood Packaging Material \(WPM\)](#) **UPDATED** XX July 2008

**NEW STANDARDIZED PALLETIZATION REQUIREMENTS -
ATTENTION SUPPLIERS: PLEASE READ!**

EBS PALLETIZATION NO. MD00100452 REVISION B DATED 07/2008

1. SCOPE

This document covers the requirements for palletization of EBS items of supply for handling, shipment, and storage.

2. REFERENCED DOCUMENTS

The following documents, of the issue in effect on the date of solicitation, form a part of this palletization sheet to the extent specified herein:

STANDARDS (COMMERCIAL)

Material Handling Industry of America (MHIA)

ANSI/MHIA-MH1 Pallets, Slip Sheets, and Other Bases For Unit Loads

ASTM International

ASTM D 3951 Standard Practice for Commercial Packaging

STANDARDS (MILITARY)

MIL-STD-147 Palletized Unit Load

ANSI/MHIA-MH1 may be purchased at the MHIA e-mail site: standards@mhia.org or Phone: 1-704-676-1190 or Fax: 1-704-676-1199.

ASTM International documents are available for purchase from ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA, 19428-2959 at www.astm.org.

Copies of listed federal and military specifications, standards, and associated documents listed in the Department of Defense Index of Specifications and Standards [ASSIST] should be obtained from Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094. They are also available on ASSIST at: <http://assist.daps.dla.mil/quicksearch/>.

3. REQUIREMENTS

Shipments of identical items packed in four or more unit, intermediate or shipping containers exceeding a total of 48 cubic feet per destination shall be palletized except when the containers are required to be skidded (see 3C) or a quantity of four unit, intermediate or shipping containers per pallet exceeds the size or weight limitations for palletized loads (see 3A and 3B, as applicable). Shipments packaged in accordance with ASTM D 3951 shall be palletized in accordance with 3A or 3B. Shipments packed Level A or Level B shall be palletized in accordance with 3B. When the total number of containers going to the same destination is 250 pounds or greater (excluding pallet) or a volume of 20 cubic feet or greater, then palletization IAW MIL-STD-147 is required. When the total number of containers going to the same destination is less than 250 pounds (excluding pallet) and is less than 20 cubic feet, then palletization is not required IAW MIL- STD-147.

A. The load **shall be** prepared and secured in a manner that will ensure carrier acceptance and permit safe re-handling at destination.

B. Palletization shall comply with MIL-STD-147 and appendices.

(1) Loads shall be stable and should not exceed the size and overseas limitations of MIL-STD-147.

(2) Glued loads shall not be used.

(3) For Level A packing, pallets shall comply with ANSI/MHIA-MH1, Part No. MH1/9-02SW4048. This part number shall be used for all shipments when the total weight is less than 1500 lbs evenly distributed.

(4) For Level B packing, pallets shall comply with ANSI/MHIA-MH1, Part No.. MH1/9-05SW4048. This part number shall be used for all shipments when the total weight is greater than 1500 lbs, but less than 3000 lbs evenly distributed.

(5) Residual quantities of less than the quantity required for one course of the load need not be palletized.

C. Palletization is not required for shipping containers that are constructed on skids. Unit/Intermediate/Shipping containers, except drums, exceeding 70 pounds gross weight or 40 inches in length, shall be constructed with skids. Skids shall be a minimum of 3 x 4 inch (nominal) lumber and shall be securely attached to permit multiple re-handling at destination. Drums shall be palletized.

D. Requirements for certifying Wood Packaging Material (WPM) (including wood pallets) shall be adhered to. Detailed requirements may be found in DLAD Clause 52.247-9012.

Failure to meet these palletization/packaging requirements and measures without written approval of waiver from the Contracting Officer may result in additional cost to the contractor for repalletization and/or repackaging of supplies.

4. ADDITIONAL REQUIREMENTS FOR EACH COMMODITY

Clothing and Textiles

Pallet loads containing more than one NSN shall be clearly marked to list all the NSNs contained in the load. No carton shall have more than one NSN. At the end of a size run, no more than one carton per NSN may be short or over the specified quantity. Said carton shall be clearly marked "short" or "over".

Hazardous Materials

Unless otherwise specified in the contract or purchase order hazardous material containers, except cylinders and 55 gallon drums, shall be palletized IAW load type VI of MIL-STD-147 UTILIZING MHIA part number MH1/9-07SW4848 pallets. "Hazardous Materials" for the purpose of this document, means any material considered hazardous under the Department of Transportation Hazardous Material Regulations, 49 CFR part 171-79, IATA, IACO, IMDG, unless otherwise specified.

NOTE

Use of nonstandard commercial pallets is forbidden unless cited in the contract/purchase order. Shrink wrap is not authorized for use with Hazardous Materials.

55 gallon drums for domestic delivery shall be palletized 3 per ANSI/MHIA-MH1, Part No. MH1/9-02SW4048 pallet (1500 lbs max), ANSI/MHIA-MH1, Part No. MH1/9-03SW4048 pallet or part number MH1/9-05SW4048 pallet (3000 lbs max) IAW with load type 3a bonding method G (stretch wrap) or 4 per ANSI/MHIA-MH1, Part No. MH1/9-07SW4848 pallet IAW

load type VI of MIL- STD-147 (placing an inverted wood cap under and over the load secured by metal strapping).

55 gallon drums for export delivery shall be palletized 4 per MHIA-MH1, Part No. MH1/9-07SW4848 pallet IAW load type VI of **MIL-STD-147** (placing an inverted wood cap under and over the load secured by metal strapping).

Cylinders for domestic delivery shall be palletized vertically IAW load type IX of MIL-STD-147 or horizontally using metal strapping IAW MIL- STD-147 bonding method D (figure 36) and notched wood spacers (storage aid #25, figure 50) to assure the stability of the load.

Cylinders for export delivery shall be Palletized (vertically) IAW load type IX of MIL-STD-147.

The use of stretch-wrap, shrink film or nonmetallic strapping for bonding is not authorized for "Export Shipments".

Medical Exceptions

A single medical item having a height of 48 inches or greater: If a properly palletized load (equipment and pallet) exceeds 54 inches in height, height limitations need not be adhered to.

A single medical item having dimensions exceeding the maximum pallet loads length and/or width dimensions: If a single item exceeds the maximum pallet load dimensions, length and width need not be adhered to. Contact the contracting officer for additional guidance.

Loading: Five-gallon tight head pails shall be loaded on pallets IAW Load Type III or IIIA of MIL- STD-147, except that a triple layer or course may be used for a total not to exceed 42 pails.

Unitization: Supplies that do not lend themselves to the use of MIL- STD-147 palletization due to size, weight, configuration, etc. shall be unitized by securely blocking, bracing, or anchoring the load on a skid base or commercial type pallet in a manner that assures safe delivery.

ALL PREVIOUS PALLETIZATION SHEETS ARE OBSOLETE.

WOOD PACKAGING MATERIAL (WPM) - ATTENTION SUPPLIERS: PLEASE READ!

We are seeing a number of instances where the incoming wood is heat treated, as indicated by 'HT' stamped on the wood. However, the HT stamp does not meet the Guidelines. When

the heat treated board is constructed into some type of pack/package, or used as dunnage, the only acceptable mark to indicate compliance is the IPPC mark.

The International Standards for Phytosanitary Measure (ISPM) Guidelines for WPM are a challenge for our depots, requiring extra time, manpower, and funding to process their workload. When the Services or ICPs are not familiar with the requirements, or the vendors don't comply, it places extra burden on the depots.

DLA Policy for Wood Packaging Material (WPM):

47.305-1 Solicitation requirements.

(c)(90) Compliance with International Plant and Protection Committee (IPPC) Guidelines Involving Wood Packaging Material (WPM).

This policy implements DOD policy developed in response to international implementation of the United Nations Food and Agriculture Organization protocol on International Standards for Phytosanitary Measures (ISPM) 15, "Guidelines for Regulating Wood Packaging Materials in International Trade." ISPM 15 is designed to block movement of pests that can destroy forests from one nation to another. DOD shipments inside and outside of the United States must meet ISPM 15 whenever wood packaging material (WPM), as defined in 52.247-9012, is used to ship DOD cargo. If the DOD policy is not followed, improperly marked shipments are likely to become frustrated cargo, be destroyed at the port, or require repacking at the port of debarkation, causing increased cost and time delays to DOD.

(c)(91) Contract clause. Insert the clause at 52.247-9012 in all solicitations and contracts for supplies or services. The clause shall also be used in acquisitions conducted using FAR Part 12.

DLA Contract Clause:

52.247-9012 REQUIREMENTS FOR TREATMENT OF WOOD PACKAGING MATERIAL (WPM) - (FEB 2007) - DLAD


(a) THIS CLAUSE ONLY APPLIES WHEN WOOD PACKAGING MATERIAL (WPM) WILL BE USED TO MAKE SHIPMENTS UNDER THIS CONTRACT AND/OR WHEN WPM IS BEING ACQUIRED UNDER THIS CONTRACT.

(b) Definition.

Wood packaging material (WPM) means wood pallets, skids, load boards, pallet collars, wooden boxes, reels, dunnage, crates, frame and cleats. The definition excludes materials that have undergone a manufacturing process, such as corrugated fiberboard, plywood, particleboard, veneer, and oriented strand board (OSD).

(c) All Wood Packaging Material (WPM) used to make shipments under DOD contracts and/or acquired by DOD must meet requirements of International Standards for Phytosanitary Measures (ISPM) 15, "Guidelines for Regulating Wood Packaging Materials in

International Trade." DOD shipments inside and outside of the United States must meet ISPM 15 whenever WPM is used to ship DOD cargo.

(1) All WPM shall comply with the official quality control program for heat treatment (HT) or kiln dried heat treatment (KD HT) in accordance with American Lumber Standard Committee, Incorporated (ALSC) Wood Packaging Material Program and WPM Enforcement Regulations (see <http://www.alsc.org/> ).

(2) All WPM shall include certification/quality markings in accordance with the ALSC standard. Markings shall be placed in an unobstructed area that will be readily visible to inspectors. Pallet markings shall be applied to the stringer or block on diagonally opposite sides of the pallet and be contrasting and clearly visible. All containers shall be marked on a side other than the top or bottom, contrasting and clearly visible. All dunnage used in configuring and/or securing the load shall also comply with ISPM 15 and be marked with an ASLC approved DUNNAGE stamp.

(d) Failure to comply with the requirements of this restriction may result in refusal, destruction, or treatment of materials at the point of entry. The Agency reserves the right to recoup from the Contractor any remediation costs incurred by the Government.

(End of clause)