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MIL-STD-129-3
15 JUNE 1993

MILITARY STANDARD
MARKING FOR SHIPMENT AND STORAGE -
SEMIPERISHABLE AND PERISHABLE SUBSISTENCE
(PART 4 OF 4 PARTS)



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FOREWORD

1. This military standard is approved for use by all Departments and Agencies of the Department of Defense (DOD).

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Chief, Logistics Support Activity Packaging, Storage, and Containerization Center, ATTN: AMXLS-TP-P, 11 Midway Road, Tobyhanna, PA 18466-5097, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. SCOPE

1.1 Purpose. The purpose of this standard is to provide the minimum requirements for the uniform marking of semiperishable and perishable subsistence for shipment and storage. It accommodates the requirements for movement processing as specified in DOD 4000.25-1-M, Military Standard Requisitioning and Issue Procedures (MILSTRIP); DOD 4000.25-2-M, Military Standard Transaction Reporting and Accounting Procedures (MILSTRAP); and DOD 4500.32-R, Military Standard Transportation and Movement Procedures (MILSTAMP).

1.2 Applicability. The marking and labeling of semiperishable and perishable subsistence for shipment and storage shall be accomplished, applied, and positioned on all containers as specified in this standard. Except for subsistence, ammunition and explosives, and medical material, all other supplies and equipment shall be marked for shipment and storage as specified in the latest revision of MIL-STD-129, Marking for Shipment and Storage. Ammunition and explosives shall be marked for shipment and storage as specified in MIL-STD-129-1, Marking for Shipment and Storage - Ammunition and Explosives. Medical material shall be marked for shipment and storage as specified in MIL-STD-129-2, Marking for Shipment and Storage - Medical Material. As defined in ASTM D996, Standard Terminology of Packaging and Distribution Environments, marking is "the application of numbers, letters, labels, tags, symbols, or colors to provide identification and to expedite handling during shipment and storage."

1.2.1 Exceptions, exemptions, and additions. The marking requirements specified in this standard are not all inclusive. Any marking exception, exemption, or addition to the requirements herein must be specified in the acquisition document.

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2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the DOD Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

FEDERAL

- | | |
|-----------|---|
| A-A-208 | - Ink, Marking, Stencil, Opaque (Porous and Nonporous Surfaces) |
| A-A-900 | - Tag, Shipping (Paper) |
| A-A-1907 | - Protector, Packing List |
| L-P-387 | - Plastic Sheet, Laminated, Thermosetting (for Designation Plates) |
| TT-E-515 | - Enamel, Alkyd, Lusterless, Quick Drying |
| UU-T-81 | - Tag, Shipping and Stock |
| PPP-E-540 | - Envelope, Water Resistant, for Packing Lists and Shipping Documents |
| PPP-T-60 | - Tape, Packaging, Waterproof |
| PPP-T-76 | - Tape, Pressure-sensitive Adhesive, Packaging/Paper (for Carton Sealing) |

MILITARY

NONE

STANDARDS

FEDERAL

- | | |
|-------------|---|
| FED-STD-595 | - Color (Requirements for Individual Color Chips (3X5 Supplements)) |
|-------------|---|

MILITARY

- | | |
|--------------|----------------------|
| MIL-STD-1189 | - Bar Code Symbology |
|--------------|----------------------|

(Unless otherwise indicated, copies of Federal and military specifications and standards are available by mail from the DODSSP - Customer Service, Standardization Documents Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

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2.1.2 Other Government documents and publications. The following other Government documents and publications form a part of this document to the extent specified herein. Unless otherwise specified, issues are those cited in the solicitation.

JOINT MILITARY

DOD 4000.25-6-M	- DOD Activity Address Directory
DOD 4120.18	- Metric System of Measurement
DOD 4140.27-M	- Shelf-life Item Management Manual
DOD 4500.32-R	- MILSTAMP
Cataloging Handbook H4/H8	- Commercial and Government Entity

(DOD activities should request copies of Cataloging Handbook H4/H8 from the Commander, Defense Logistics Services Center, Battle Creek, MI 49017-3084. All other joint military publications listed above should be requisitioned through the applicable Service/Agency publications distribution office. All non-DOD activities should obtain copies of the publications from the Defense Logistics Agency, ATTN: DLA-XPD, Cameron Station, Alexandria, VA 22304-6100, Commercial Phone: (703) 274-6011.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation.

NONE

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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3. DEFINITIONS

For purposes of this standard, the following definitions apply:

3.1 Abbreviations and acronyms. The abbreviations and acronyms used in this standard are defined as follows:

AID	- Agency for International Development
ASTM	- American Society for Testing and Materials
CAGE	- Commercial and Government Entity
CLIN	- Contract Line Item Number
CNS	- Cans
COC	- Certificate of Conformance
CONUS	- Continental United States
CPI	- Characters Per Inch
CS	- Cases
CU	- Cube
DCMAO	- Defense Contract Management Area Operations
DOD	- Department of Defense
DODAAC	- Department of Defense Activity Address Code
DODISS	- Department of Defense Index of Specifications and Standards
DOP	- Date of Pack
DTS	- Defense Transportation System
EXP	- Expiration
FMS	- Foreign Military Sales
FSC	- Federal Supply Class
HRI	- Human-readable Interpretation
IRT	- Insect-resistant Treated
ITD	- Inspection/Test Date (also shown as INSP/TEST)
LBS	- Pounds
LCL	- Less Than Car Lot
LTL	- Less Than Truck Lot
MILSTAMP	- Military Standard Transportation and Movement Procedures
MILSTRAP	- Military Standard Transportation Reporting and Accounting Procedures
MILSTRIP	- Military Standard Requisitioning and Issue Procedures
MILVAN	- Military-owned Demountable Container
NATO	- North Atlantic Treaty Organization
NIIN	- National Item Identification Number
NO.	- Number
NSN	- National/NATO Stock Number
OZ	- Ounce
PIIN	- Procurement Instrument Identification Number
PKG	- Package
POD	- Port of Debarkation

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POE	-	Port of Embarkation
PROJ	-	Project
RDD	-	Required Delivery Date
ROD	-	Report of Discrepancy
SEAVAN	-	Commercial- or Government-owned (or -leased) Shipping Container
SLC	-	Shelf-life Code
TCN	-	Transportation Control Number
TP	-	Transportation Priority
TPK	-	Type Pack
UI	-	Unit of Issue
WT	-	Weight

3.2 Bar code. An array of rectangular bars and spaces in a predetermined pattern representing coded elements of data that can be read and interpreted by automatic bar code reading devices.

3.3 Cognizant activity. The activity having responsibility for a contract or jurisdiction over it. At a contractor's facility, the cognizant activity is the administrative contracting officer or the procuring contracting officer. Contractor personnel do not qualify as the cognizant activity. At DOD installations, this is the head of the agency, bureau, command, or service responsible for storage and shipment.

3.4 Commercial and Government Entity (CAGE) code. A five-position alphanumeric code applicable to all activities which have produced or are producing items used by the Federal Government and to Government activities which control design or are responsible for development of certain specifications, drawings, or standards which control the design of items. CAGE codes are listed in the CAGE Cataloging Handbook H4/H8.

3.5 Consignee (receiver). Party to whom materiel is shipped and whose name and address appear in the "ULTIMATE CONSIGNEE OR MARK FOR" block of the shipping label.

3.6 Consignor (shipper). Party who ships materiel and whose name and address appear in the "FROM" block of the shipping label.

3.7 Consolidation container. A container used to consolidate more than one line item into a single shipping container to be shipped to one destination, but not necessarily to one addressee.

3.8 Contract Line Item Number (CLIN). A 4-6 digit number used to identify each delivery date and/or destination's quantity in the contract schedule.

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3.9 Contract or purchase order number (including four-digit delivery order number or call number, when specified). The acquisition instrument identification number appearing on the acquisition document. Some DOD contracts refer to the contract or purchase order number, together with the delivery order number, as the procurement instrument identification number (PIIN).

3.10 Date of pack (DOP). The DOP is the date on which the product was processed and/or packaged in the unit container or primary container, regardless of the date of exterior packing, additional processing, or shipping.

3.11 Defense Transportation System (DTS). The DTS consists of military-controlled or -operated terminal facilities, Air Mobility Command controlled or arranged airlift, Military Sealift Command controlled or arranged sealift, and Government-controlled air or land transportation.

3.12 Exterior container. A container, bundle, or assembly that is sufficient by design and construction to protect unit packs and intermediate containers and their contents during shipment and storage. It may or may not be used as a shipping container.

3.13 Human-readable interpretation (HRI). Exact interpretation of the encoded bar code date presented in a human-readable font.

3.14 Interior container. A container that is inside another container. It may be a unit pack or an intermediate container that is placed inside an exterior container or shipping container. It is not to be used as a shipping container.

3.15 Intermediate container. An interior container, bundle, or wrap which contains two or more unit packs of identical items, and which is subsequently packed in a shipping container.

3.16 Item description. It is the exact name and description of an item as it appears in the procurement contract, purchase order, or requisition. Abbreviated descriptions authorized by the cognizant activity are permitted.

3.17 Levels of protection. They refer to the extent of preservation and packing required to prevent the deterioration or damage to supplies and equipment caused by the hazards to which they may be exposed during shipment and storage. Level A provides maximum protection to meet the most severe worldwide shipment, handling, and storage conditions; level B provides intermediate protection to meet moderate worldwide shipment, handling, and storage conditions; and level C provides minimum protection to meet known favorable shipment, handling, and storage conditions.

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3.18 National/NATO stock number (NSN). The NSN is a 13-digit number that is divided into two parts, the Federal supply class (FSC) number and the national item identification number (NIIN). The FSC is the first four digits of the NSN and establishes its relationship to other items within the same FSC. The NIIN is the last nine digits of the NSN. The first two digits identify the country assigning the number and the remaining seven digits are a serially assigned number. The NIIN fixes the identity of an item of supply and differentiates it from all other items of supply.

3.19 Packaging. The processes and procedures used to protect materiel from deterioration, damage, or both. For subsistence, it includes preserving, labeling, packing, marking, and unitizing.

3.20 Packing. The assembling of unit packs into intermediate containers and/or shipping containers, with the necessary dunnage, cushioning, weatherproofing, reinforcement, and marking.

3.21 Palletized unit load. A quantity of items, packed or unpacked, which is arranged on a pallet in a specified manner and is secured, strapped, or fastened on the pallet so that the whole palletized load is handled as a single unit.

3.22 Perishable item. An item which normally requires some type of environmental control, which usually includes chilling or freezing the item during transportation and storage.

3.23 Port of debarkation (POD). An authorized point of entry into a foreign country or the continental United States (CONUS).

3.24 Port of embarkation (POE). An authorized point of departure from a foreign country or from CONUS.

3.25 Project code. A three-position alphanumeric code which identifies plans, programs, and exercises.

3.26 Quantity. The number of units of issue (UI) (lb, oz, ea) in a unit pack, an intermediate container, or a shipping container or in a bundle or a secure lift.

3.27 Required delivery date (RDD). The RDD is the day of the year (e.g., 087, 198, etc.) specified on the requisition when material is required by the requisitioner or the consignee.

3.28 Semiperishable item. A semiperishable item is an item that does not normally require refrigeration or freezing during transportation and storage.

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3.29 Shelf-life. The total period of time beginning with the manufactured date, cured date, assembled date, or packed date that an item may remain in the combined wholesale and retail storage system and still be suitable for issue and/or use by the user.

3.30 Shelf-life code (SLC). A code assigned to a shelf-life item to identify the period of time beginning with the date of manufacture, cure, assembly, or pack and terminated by the date by which an item must be used (expiration date) or subjected to inspection, test, restoration, or disposal action.

3.31 Shelf-life item. Item of supply that possesses unstable or deteriorative characteristics to the degree that a storage time period must be assigned to ensure that the item will perform satisfactorily in service.

3.32 Shipping container. A container which meets carrier regulations and is of sufficient strength, by reason of material, design, and construction, to be shipped safely without further packing either as a primary pack or as an outer container for unit packs (e.g., wooden boxes or crates, fiber and metal drums, and corrugated and solid fiberboard boxes).

3.33 Stamping. Impressing or imprinting by metal dies or rubber stamps.

3.34 Transportation control number (TCN). The single standard shipment identification number for all DOD-sponsored movements (i.e., materiel and equipment and all vendor shipping transactions involving DOD materiel). The TCN is a 17-position, alpha-numeric data element assigned to control a shipment unit through the transportation pipeline (to include CONUS shipments, shipments entering the DTS, and commercial systems).

3.35 Unitization. Assembly of containers comprised of one or more line items of supply into a single load so that the load can be handled as a unit through the distribution system.

3.36 Unit of issue (UI). A UI is a standard or basic quantity expressed as a unit and indicated in a requisition, contract, or order as the minimum quantity issued (e.g., bottle, can, dozen, each, gallon, gross, pair, pound, yard, etc.).

3.37 Unit pack. The first tie, wrap, or container applied to a single item, or a quantity thereof, or to a group of items of a singled stock number, preserved or unpreserved, which constitutes a complete or identifiable package. A unit pack is also often referred to as a "package" or merely as a "pack."

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4. GENERAL REQUIREMENTS

4.1 Abbreviations. Authorized abbreviations shall be those listed in the applicable service implementing directives. The correct unit of issue (UI) for marking is the UI shown in the procurement contract or purchase order. When approved by the cognizant activity concerned, abbreviations of item descriptions are permitted. Periods shall not be used with abbreviations.

4.2 Unit pack, intermediate container, and exterior container identification and contract data markings. The identification markings on unit packs/containers of semiperishable and perishable subsistence shall be in accordance with applicable commodity specifications. Unless otherwise specified in the contract or order, intermediate containers shall be marked or labeled on one end or one side panel with the item name (e.g., TEA, INSTANT) and the quantity, size, and unit (e.g., 50 3/4 OZ PGS). Identification and contract data markings for exterior shipping containers (other than sacks) of semiperishable and perishable subsistence shall be as specified in 4.2.1 and 4.2.2, respectively. For the marking of shipping sacks and bags, see 4.2.5. For bar code markings, see 4.5 through 4.5.4. Shipping containers of brand name resale items shall be marked as specified herein and in the procurement contract or purchase order.

4.2.1 Semiperishable subsistence (see figure 1). Except when otherwise specified in the procurement contract or purchase order, the following identification and contract data markings shall be stenciled or printed on all exterior containers of semiperishable subsistence. The information listed shall be applied on one end panel as shown in figure 1. When there is insufficient space on the end panel for all of the required markings, the required markings shall be stenciled or printed on the side panel to the right of the identification-marked end.

- a. NSN and type pack (TPK) code (e.g., 8915-00-257-3947 TPK-2). TPK codes refer to the type of packing to be used. TPK-2 shipping containers shall be marked with a TPK code that is applied adjacent to the NSN marking, with a minimum of three spaces maintained between the NSN and TPK. The NSN and TPK-2 are not required when the item is for resale, unless specifically required by the purchase order.
- b. Item name (e.g., CORN, CANNED).
- c. Quantity, size, and unit (e.g., 6 NO 10 CNS) or total case net weight (e.g., NET WT 42 LBS), as appropriate. When the item is for resale only, the month and year of the earliest package date are required.

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- d. Contract or purchase order number, delivery order number (when applicable) and lot number (e.g., DLA13H-92-C-1500 LOT 26 or DLA13H-92-C-1500-D027 LOT 26). The contractor shall mark the applicable lot number by embossing, stamping, ink jet printing, laser printing, or stenciling on each primary container and/or shipping container, thus identifying the involved lot from all other lots produced by the same contractor. Lot numbers shall not be mixed on the same pallet load except for end of shift/lot partial quantities. Unit load markings shall then reflect all involved lot numbers.
- e. Name, address, and nine digit zip code of the contractor (e.g., TJB FOODS, SCRANTON, PA 18919-5001).
- f. Date of pack (DOP). Use either month and year (e.g., DOP 12/92) or julian date (year and day) (e.g., DOP 2345).
- g. Inspection/test date (ITD) (e.g., ITD 12/94 or INSP/TEST DATE 12/94).

- NOTES:
- 1. Three spaces shall be provided for additional inspection/test dates.
 - 2. The inspection/test date marking is not required for shipment when ration components are shipped to ration assembly points.

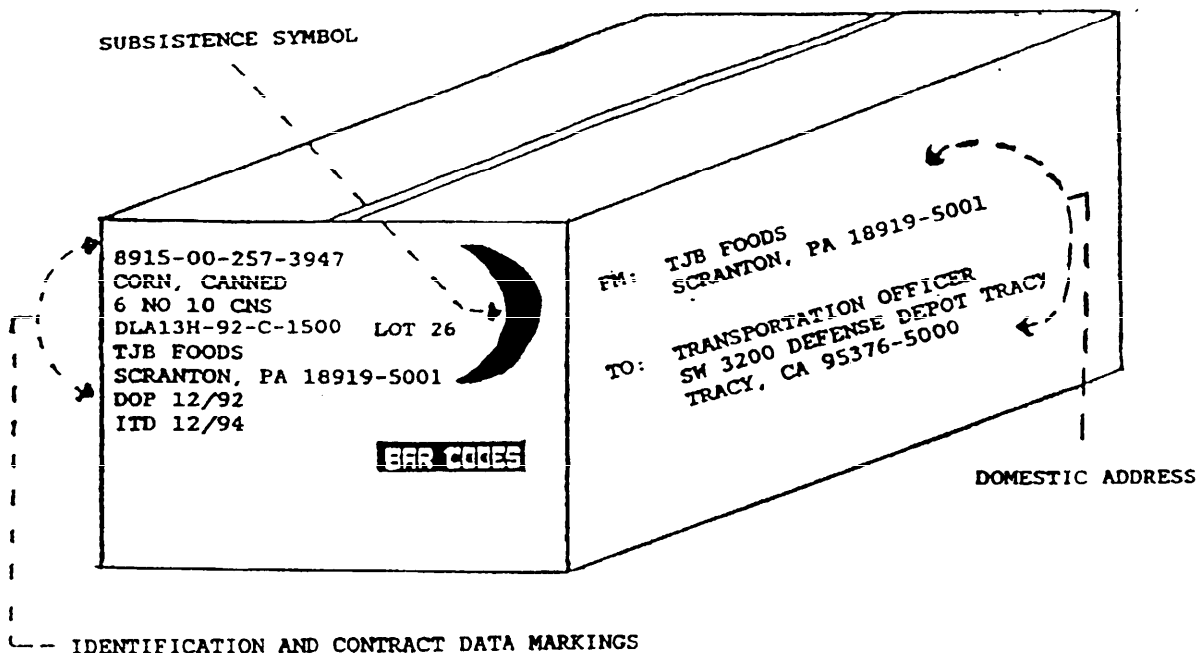


FIGURE 1. Basic markings for shipping cases/containers of semiperishable subsistence.

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4.2.2 Perishable subsistence (see figure 2). Except when otherwise specified in the procurement contract or purchase order, the following identification and contract data markings shall be stenciled or printed on all exterior containers of perishable subsistence. The information listed below shall be applied on one end panel as shown in figure 2. When there is insufficient space on the end panel to allow for placement of the required markings, all required markings shall be stenciled or printed on the side panel that is to the right of the identification-marked end. The standard markings for perishable subsistence shall not apply to the purchase of fresh fruits and vegetables. Markings on shipping containers for fresh fruits and vegetables shall be as specified in the contract or purchase order.

- a. NSN (e.g., 8915-00-127-7984).
- b. Item description or brand (e.g., BEANS, LIMA, FROZEN).
- c. Total net weight (e.g., 50 LBS NET WT) or quantity, size, and unit applicable to the items purchased by volume rather than by weight (e.g., 24 - 12 OZ CNS) and the date of pack. Use either the month, day, and year (e.g., DOP 11/15/92) or the julian date (year and day) (e.g., DOP 2345). Unless otherwise specified in the contract or purchase order, the net weight shall be expressed in pounds to the nearest greater whole pound. The net weight is not required on shipments of perishable items purchased by volume (i.e., frozen fruit juice, milk, ice cream, etc.). The DOP applied to frozen fruit or vegetable containers need only indicate the month and year. On those items such as frozen fruits, juices, and vegetables which are bulk frozen, the DOP shall be the month and year that the product was processed into its final form, regardless of subsequent packaging into primary (bulk/retail) containers. When dealing with natural cheeses, the date of pack shall be the date of manufacture.
- d. Contract or purchase order number, delivery order number (when applicable) and lot number (e.g., DLA13H-92-P-1026 LOT 5 or DLA13H-92-P-1026-D091 LOT 5). The contractor shall mark each lot by embossing, stamping, ink jet printing, stenciling, or laser printing each primary container and/or shipping container, thus identifying one lot from all other lots produced by the same contractor.
- e. Name, address, and nine digit zip code of the contractor (e.g., GROELMCO, READING, PA 19602-1099).

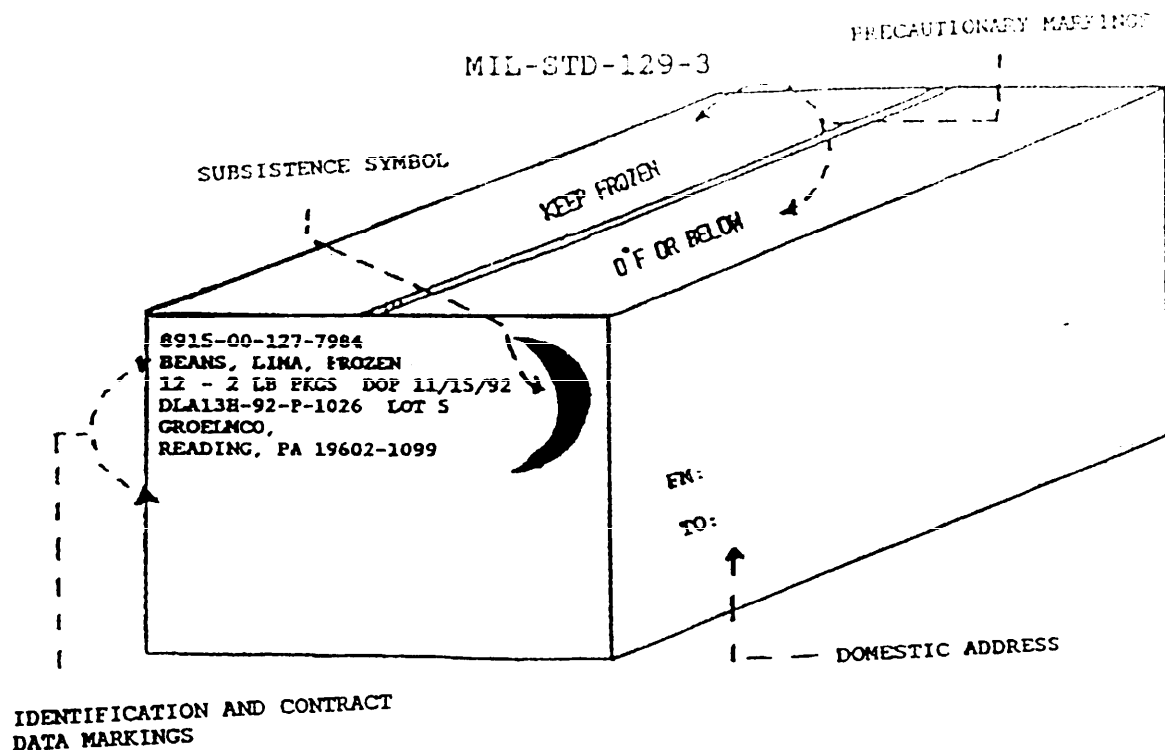


FIGURE 2. Basic markings for shipping cases/containers of perishable subsistence.

4.2.2.1 Precautionary markings (see figure 2). For items that are required to be refrigerated or frozen, the following markings or equivalent wording, as applicable, shall be applied to the top or two sides of the container in letters 1 to 1-1/2 inches high (color of markings may be the same as the color normally used by the contractor on his commercial shipping cases/containers):

KEEP FROZEN
(0 F. OR BELOW)

or

KEEP REFRIGERATED
(temperature range,
as applicable)

4.2.3 Marking of gross weight and cube. The capital letters "WT" and "CU" shall precede the gross weight and cube numerals. The gross weight shall be numerically expressed in pounds rounded up to the nearest pound. The cube (cubic displacement) shall be calculated from the overall length, width, and height dimensions of the exterior shipping container, bundle, or secured lift. Irregular, cylindrical, or round items shall be considered to be rectangular solids. To calculate the cube, multiply the length by the width by the height in inches and divide the answer by 1728. The resulting cube, shown in cubic feet, shall be expressed in decimals rounded up to the nearest tenth of a cubic foot. Gross weight and cube markings are only applied to unitized loads that are destined for direct air shipment (see 4.2.6d).

4.2.4 Armed Forces Symbol for Subsistence (see figure 3). Except for containers filled with fresh fruits and vegetables, all troop issue shipping containers packed with semiperishable

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and perishable subsistence shall have a solid black crescent symbol conforming to the design and dimensions shown in figure 3 applied to the right of and adjacent to the identification markings. Shipping containers of subsistence items intended strictly for resale are not required to display the subsistence symbol. The Armed Forces Symbol for Subsistence is not required on shipping containers of ration components being shipped from a contractor or subcontractor to a ration assembly plant.

NOTE: The dimensions of the symbol shall be as indicated + or - 1/4 inch.

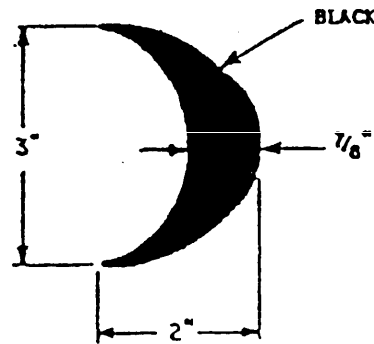


FIGURE 3. Armed Forces Symbol for Subsistence.

4.2.5 Shipping sacks and bags (see figure 4). Identification and contract data markings on shipping sacks and bags shall be as specified herein. As an alternative to the sequence shown for identification markings, the "Net Weight/Date of Pack" may be shown with the contract data. When this option is used, "Net Weight/Date of Pack" shall be the first line of contract data markings. On the side of level A shipping sacks and level B shipping sacks (for ocean shipment) that bear the manufacturer's Certificate of Compliance (COC), the words "FOR OCEAN SHIPMENT" shall be printed or stenciled under the manufacturer's COC in block letters 1 to 1-1/2 inches high. When insect-resistant treated (IRT) sacks are specified in the contract or order, the statement "IRT FABRICATED (MONTH/YEAR)," in letters not less than half an inch high, shall be placed on each sack directly under the manufacturer's COC or under "FOR OCEAN SHIPMENT." IRT markings may also be shown with the contract data, on a separate line, spaced 1 to 1-1/2 inches below the contractor's address. Commodities already packed in commercially printed sacks or bags shall have the required markings stenciled in letters 7/16 to 1 inch, equal height, centered on one face of the sack or bag. When the printing area is too small to permit compliance, the spacing of the printing may be altered proportionately. If the stenciled information is not legible on bag material (other than paper), the information shall be machine printed or typed on a white or manila cloth or paper tag conforming to UU-T-81. The required markings shall be waterproofed by coating the outer surfaces of the tag with spar varnish, clear acrylic coating compound, or adhesive. Tags shall be attached with tag wire not smaller than 23-gauge or other suitable corrosion resistant metal fastener.

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- a. Identification markings. Beginning 7 lines from the top of the sack or bag, and in separate lines spaced half an inch apart, the following identification markings shall be applied in the order listed:
- (1) NSN (e.g., 8920-00-165-6898).
 - (2) Item nomenclature (e.g., FLOUR, PASTRY).
 - (3) Net weight and date of pack (month and year) (e.g., 50 LBS NET DOP 11/92).
 - (4) Inspection/test date (e.g., ITD 4/93 or INSP/TEST DATE 4/93).
- b. Contract data markings. Beginning 12 inches from the bottom of the sack, the following contract data markings shall be applied in the order listed:
- (1) Contract or purchase order number and lot number (e.g., DLA13H-92-T-4424 LOT 10).
 - (2) Contractor's name (e.g., BEAR FLOUR MILL CO).
 - (3) Contractor's address (including nine digit zip code) (e.g., BOSTON, MA 02210-2188).

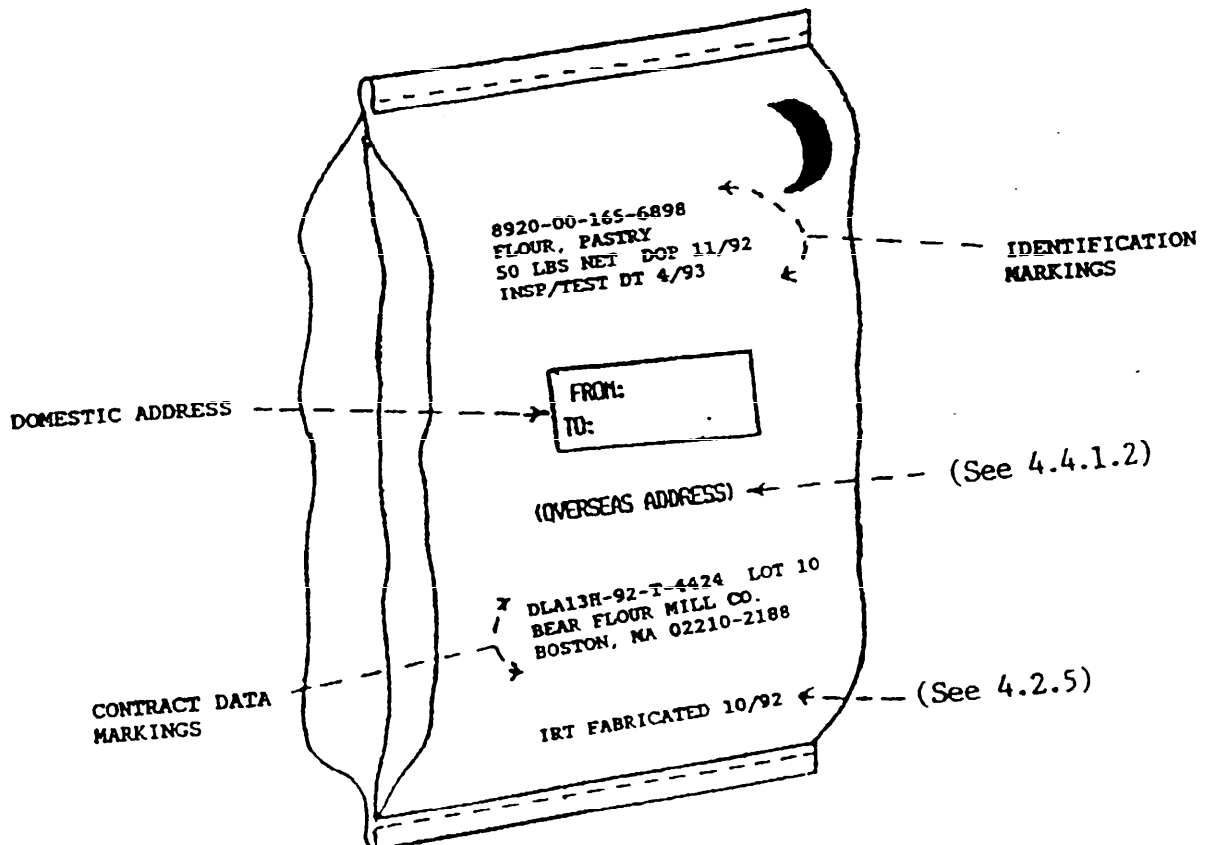


FIGURE 4. Identification, contract data, and address markings for shipping sacks and bags.

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4.2.6 Palletized/containerized unit loads. The following identification and contract data markings shall be stenciled, printed, or labeled on two adjacent sides of the unitized load:

- a. NSN.
- b. Item description.
- c. Quantity, size and unit, and type of pack. The quantity is the number of shipping cases in the unit load. The TPK is obtained from the contract (e.g., 40 CS 6 NO 10 CNS TPK-2).
- d. Gross weight and cube, when required. Unit load gross weight and cube markings are only required when materials are to be transported via direct air shipment. When determining the gross weight and cube, include the weight and dimensions of the pallet or load base.
- e. Contract or purchase order number, delivery order number (when applicable), and lot number. Contract markings (lines e and f) are only required on one surface, but they may be applied to both sides at the contractor's option. Various lot numbers shall not be mixed on the same pallet load except for end of shift/lot partial quantities. Unit load markings shall then reflect all involved lot numbers.
- f. Name, address, and nine digit zip code of the contractor.
- g. Date of pack.
- h. Inspection/test date.

4.2.6.1 Sheathed or containerized loads and unsheathed loads. For sheathed or containerized loads, the above required markings may be applied directly on any two adjacent sides of the load as shown in figure 5. In addition, the subsistence crescent symbol and the required bar code markings must be applied in the approximate position as shown in figure 5. For unsheathed loads, the unit load markings shall be placed on two adjacent sides of the unit load by means of a marking panel (see 5.1.9). Shipping cases shall be placed or stacked so that the shipping case contract data markings are facing towards the outside of the load, if possible. When the required markings (see 4.2.1 through 4.2.4) are exposed on one or more individual shipping container(s) on two adjacent sides of the load, the marking panel need only be marked with the information in 4.2.6c and 4.2.6d.

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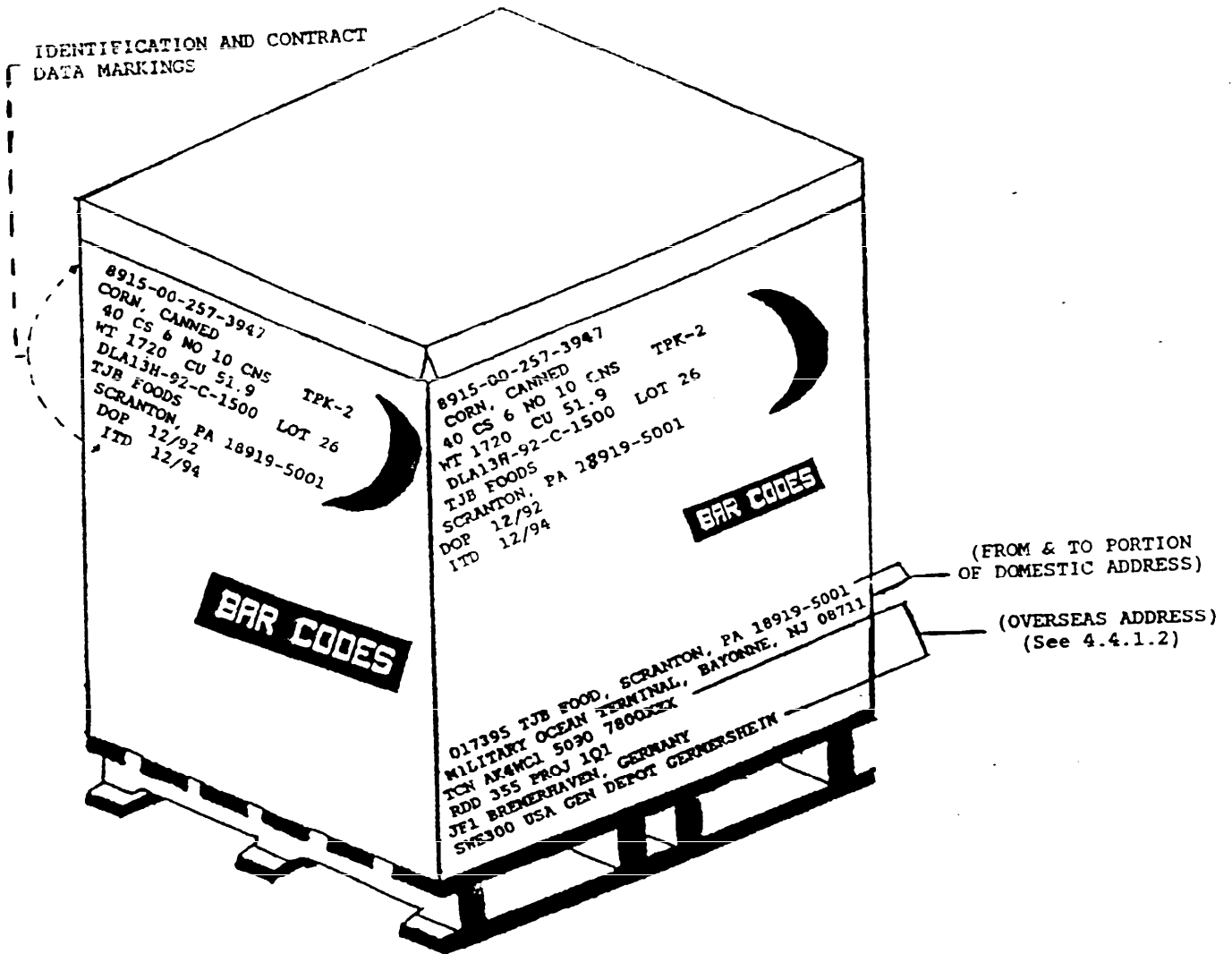


FIGURE 5. Identification, contract data, special, and address markings on a palletized/containerized unit load.

4.2.6.2 Shrink film or stretch wrap bonding of palletized/containerized unit loads. For heat shrink or stretch-wrap bonded loads, required unit load markings shall be applied before the unit load is bonded with film. When multilayer applications of stretch wrap film obscure the identification and contract data markings that were applied to the load prior to bonding, then pressure-sensitive labels shall be placed on the outermost layer of wrap. Alternatively, a placard may be positioned on the sides of the unit load just prior to applying the last layer of stretch wrap. The outside label/placard shall be placed on either the identification-marked side of the load or on the opposite side. The outside label/placard is in addition to the label/placard affixed directly to the unit load.

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4.2.6.3 Documentation to accompany commercial- or Government-owned (or leased) shipping containers (SEAVANs) and military-owned demountable containers (MILVANs). Four copies of a document listing the contents of the van and including the words "DATE STUFFED" followed by the applicable date shall be placed in a PPP-E-540, class 2, style 1, 2, or 3, water-resistant envelope that shall be marked "MILSTAMP DOCUMENTATION." The envelope shall then be attached either to the interior of the loading door of the van or to a container immediately visible when the van is opened. The document used to list the contents of the van may be any of the following: packing/loading list, contract, delivery order, DD Form 250 (Materiel Inspection and Receiving Report), Transportation Control and Movement Document, Bill of Lading, or any other document identifying the contents.

4.2.6.4 Transportation Control Number (TCN) for palletized/containerized unit loads. For other than SEAVAN containers, when more than one TCN has been assigned to the individual containers marking up the unitized load, the TCN to be used for the address marking shall be the TCN having the earliest required delivery date (RDD). If no RDD is specified, the TCN having the earliest date shall be used.

4.3 Commercial containers. When shipments are purchased in commercial containers, the identification, contract data, and precautionary markings may be retained. This data will be considered as complying with the marking requirements irrespective of order or location as long as: (1) the commercial markings are clear, legible, nonfading, durable, and provide definite contrast; (2) all required data is located on an end and/or side panel(s), except for precautionary markings, which shall be on both side panels or the top panel; and (3) no advertising matter or case marking for products or the manufacturer, other than that being purchased, appear on the container. Any data required in 4.2.1 through 4.2.4 which is not included in the commercial markings must be added. All added information shall comply with the requirements of section 5 and with the requirements of 4.2.1 through 4.2.4, except for the order of markings. The NSN, contract number, Armed Forces Symbol for Subsistence, and bar code symbology (see 4.5) must be on the end panel, provided there is sufficient marking area on the end panel. If the end panel cannot accommodate all the required markings, then all of the remaining markings shall be placed on the side panel that is to the right of the end panel. When shipments are purchased in other than preprinted commercial containers, the markings shall comply with the requirements in 4.2.1 through 4.2.4 and the requirements in section 5.

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4.4 Address markings. The domestic and overseas address markings for contractor- or vendor-originated shipments and for DOD-originated shipments of semiperishable and perishable subsistence shall be accomplished as specified in 4.4.1 through 4.4.1.2 for contractor/vendor shipments and in 4.4.2 through 4.4.2.1 for DOD shipments. Address markings shall be applied and positioned on all shipping containers and palletized/containerized unit loads as shown in figures 1, 2, 4, and 5. The exact placement of address markings may vary slightly from those shown in the figures.

4.4.1 Contractor- or vendor-originated address markings. A contractor or vendor may apply address markings by stenciling, silk-screening, tagging, or labeling (using other than a DD Form 1387 (Military Shipment Label)), provided the procurement costs are not increased and the markings conform to the requirements of this standard.

4.4.1.1 Domestic address markings. For shipments of perishable subsistence, the domestic address is only required for less than car lot/less than truck lot (LCL/LTL) shipments that are direct vendor delivery. For shipments of semiperishable subsistence, the domestic address is only required for all LCL/LTL shipments and for shipments to port terminals (see figure 5). The domestic shipment address for contractor- or vendor-originated shipments shall contain the following minimum information in the order listed. It should be noted that all of the information listed below may not be applicable to every shipment. Therefore, minor variations in the order of marking are authorized. Any additional data required by the procurement contract or purchase order shall be applied below the piece number and total pieces.

- a. Control Number or Reference Number. As a minimum, the TCN shall be provided as the single standard shipment identification number. The contract number, purchase order number, or commercial Bill of Lading number may also be provided.
- b. From: Name and address of consignor.
- c. To: Name and address of consignee.
- d. Project code and RDD, when required.
- e. Gross weight and cube, when required.
- f. Additional data, when required.

4.4.1.2 Overseas address markings. For overseas shipments that are sent from port terminals, the "FROM" and "TO" portions of the domestic address markings (see figure 5) shall be included in the overseas address. Overseas address markings are required on each

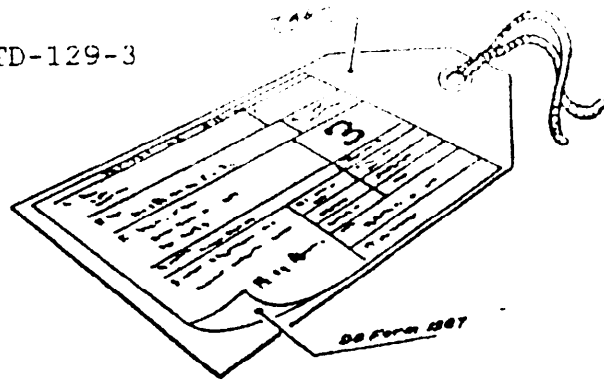
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shipping container that is not palletized or containerized and on all palletized/containerized unit loads. Shipping containers, palletized/containerized unit loads that are consolidated into a full SEAVAN/MILVAN load by the origin shipper for delivery as a unit to the ultimate consignee do not require address markings. SEAVANs/MILVANs shall be address marked with a DD Form 1387 that is properly annotated with all the required data and attached to the exterior of the van adjacent to the seal. When required, shipping containers or palletized/containerized unit loads shall have the overseas address markings stenciled, printed, or labeled in the lower one third of the end or side panel which contains the identification and contract data markings. All shipment made directly to port terminals for export shall have the following address markings applied in the sequence shown (see figure 5):

- a. TCN.
- b. Project code (if specified), RDD, and Transportation Priority (TP).
- c. Port of debarkation (POD): DOD activity address code (DODAAC) and in-the-clear address.
- d. Overseas consignee (DODAAC and in-the-clear address).

4.4.2 Military address markings (see figure 6). The DD Form 1387 shall be used as the address marking on all shipments of semiperishable and perishable subsistence originated by DOD shipping activities and those shipped by military air. It shall be completed as specified herein and in DOD 4500.32-R and shall be prepared by automated or manual means (typewriter). Address labels prepared by automated means must be readable by humans and electronic devices. Address labels prepared manually must be readable by employees who are responsible for the movement of cargo. TP 1, 2, or 3 shall be identified by a machine-printed, hand-printed, stamped, stenciled, or stick-on numeral placed in the TP block of the DD Form 1387. The minimum height of the TP numeral shall be three-fourths of an inch. When an automatic marking system is used, the applicable TP shall be identified by preprinting the TP numeral (printed with the same color ink as the other data on the label). Bar coded entries on the DD Form 1387 shall be as specified in 4.4.2.2. Hand printing is not authorized on the DD Form 1387 except for blocks 6, 10, 12, 13, 14, 16, and 17. If hand-printed entries are not readable by the receiving activity, a report of discrepancy (ROD) should be prepared. When a DD Form 1387 interferes with or obscures other required markings on a shipping container, the label shall be attached to a paper shipping tag (NSN 8135-01-256-1109) conforming to A-A-900 (see figure 6). The tag is large enough (8 inches long by 7 1/2 inches wide) to accommodate the label without folding. Separate tags shall be used for identification and address markings.

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MILITARY SHIPMENT LABEL		Form Approved OMB No. 0704-0188	
1. TRANSPORTATION CONTROL NUMBER		2. POSTAGE DATA	
3. FROM		4. TYPE SERVICE	
5. SHIP TO/POC		6. TRANS PRIORITY	
7. POD		8. PROJECT	
9. ULTIMATE CONSIGNEE OR MARK FOR	10. WT. (lbs. per piece)	11. RDD	
	12. CUBE (ins. per piece)	13. CHARGES	
	14. DATE SHIPPED	15. FMS CASE NUMBER	
	16. PIECE NUMBER		
	17. TOTAL PIECES		

DD Form 1387, NOV 86

Previous editions are obsolete

CPO : 1987 O - 171-261

FIGURE 6. Military address markings applied to a Military Shipment Label for a DOD-originated shipment.
The label may be attached to a paper shipping tag.

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4.4.2.1 Format of the DD Form 1387 (see figure 6). The format of the DD Form 1387 and the instructions for its completion are specified below and in DOD 4500.32-R, volume I.

a. For shipments other than mail, the address label shall be completed as follows:

- (1) TCN: Enter 17-character (alphanumeric) TCN, bar coded and in-the-clear. For consolidated shipments, a lead TCN must be placed in this block.
- (2) Postage Data: Leave blank.
- (3) From: Enter DODAAC and in-the-clear address of the shipping activity. (See DOD 4000.25-6-M)
- (4) Type Service: Enter Air Express, Overnight Delivery, Blue Label, etc., as applicable. If none, leave blank.
- (5) Ship to/Port of Embarkation (POE): Enter three digit air/water port code and in-the-clear port address.
- (6) Transportation Priority: Enter applicable TP.
- (7) Port of Debarkation (POD): Enter three digit POD port designator from DOD 4500.32-R, if appropriate.
- (8) Project: Enter project code, if applicable.
- (9) Ultimate Consignee/Mark For: Enter consignee's DODAAC, bar coded and in-the-clear, and consignee's complete mailing address.
- (10) Weight (this piece): Enter actual gross weight.
- (11) Required Delivery Date: Enter the RDD (day of the year such as 087 or 198), if appropriate. If the RDD is not appropriate, enter "000."
- (12) CUBE (this piece): Enter cube.
- (13) Charges: Enter the CONUS inland freight charge on the label of the number one piece of the shipment unit (entry is mandatory for Foreign Military Sales (FMS) shipments).
- (14) Date Shipped: Enter four-digit date (day of the year) (e.g., 0306) or in-the-clear date (e.g., 1 Nov 92).
- (15) FMS Case Number: Enter as appropriate.
- (16) Piece Number: Enter bar coded and in-the-clear.
- (17) Total pieces: Enter total pieces in shipment unit.

4.4.2.2 Data to be bar coded on the DD Form 1387 (see figure 7). Using either the preprinted or generated form, those DOD sites having the capability shall bar code the following data on the DD Form 1387 in accordance with DOD 4500.32-R. This is in addition to the human-readable data that is required.

- a. TCN in block 1 (17 characters).
- b. Ultimate Consignee (DODAAC) in block 9 (6 characters).
- c. Piece Number in block 16 (4 characters).

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MILITARY SHIPMENT LABEL DD FORM 1387		
1. TRANSPORTATION CONTROL NUMBER  W6262Q50980209XXX		2. POSTAGE DATA
3. FROM		4. TYPE SERVICE
5. SHIP TO / POE		6. TRANS PRIORITY
7. POO		8. PROJECT
9. ULTIMATE CONSIGNEE OR MARK FOR  W6262R		10. WT
		11. ROD
		12. CUBE
		13. CHARGES
		14. DATE
		15. FMS CASE NO
		16. PIECE NO  0004
		17. TOTAL PIECES

FIGURE 7. Sample of a bar coded DD Form 1387.

4.4.2.3 Human-readable interpretation. The HRI of the bar coded DODAAC and piece number shall appear either below the bar code or in-line with the bar code. When in-line, a 0.25 inch quiet zone is required between the bar code and the HRI. The bar code symbology shall be in accordance with MIL-STD-1189 except for the minimum height of the bar code, which shall be 0.25 inch (6.35mm), regardless of the density (characters per inch).

4.4.2.4 Size of the DD Form 1387. For those sites having the capability to generate the DD Form 1387 as well as the data, the form may be reduced in size but shall not be any smaller than 4.0 inches in height by 5.0 inches in width (101.6 by 127.0mm) or 5.0 inches in height by 4.0 inches in width (127.0 by 101.6mm). The basic format shall remain the same. The labels and bar codes in figures 6 and 7 have been reduced in size for ease in publication.

4.4.3 Affixing the contractor/vendor or military address label to the shipping container. When the surface of the shipping container or material does not lend itself to direct application of the address label, the label shall be attached to a paper shipping tag (see 5.1.3) or a marking panel (see 5.1.9).

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4.5 Bar code markings (see figure 1). All exterior shipping containers of semiperishable subsistence shall have the NSN and contract number bar coded, with the bar coded NSN and contract number applied on one end of the container. When included as part of the identification markings, the Commercial and Government Entity (CAGE) code and contract line item number (CLIN) are not required to be bar coded. When space does not permit placement of the bar code markings on one surface of the shipping container, they shall be placed on the side of the container that is to the right of the identification-marked end. Bar code markings are not required on unit packs and intermediate containers of semiperishable subsistence. Shipments of perishable subsistence also do not require bar code markings. In addition, bar code markings are not required on shipping containers of ration components being shipped from a contractor or subcontractor to a ration assembly plant.

4.5.1 Application of bar code markings. The applied bar code and HRI shall be the standard DOD symbology as described in MIL-STD-1189. The HRI shall be an exact interpretation of bar code data and shall not contain any spaces or dashes. The preferred location of the HRI is below the bar code markings, while the optional location is above the bar code markings.

4.5.2 Bar coded NSN and contract or order number (see figure 1). Only the NSN and contract or order number shall be bar coded on exterior shipping containers of semiperishable subsistence. The bar coded NSN shall consist of the basic 13 data characters. Prefixes and suffixes to the stock number, as well as spaces and dashes, shall not be bar coded. The bar coded contract or order number shall consist of 13 data characters.

4.5.3 Bar code character density. The standard bar code density range shall be from 3.0 to 9.4 characters per inch (CPI). When a direct-marking process is used to bar code exterior shipping containers, a bar code character density range of 1.7 to 3.0 CPI may be used. Higher bar code densities in the range of 9.4 to 15.5 CPI may be used, when specified, for unique applications.

4.5.4 Bar code configurations and basic message formats (see figure 8). The two bar code configurations are vertical (ladder) and horizontal (picket fence). Unless otherwise specified in the procurement contract or purchase order, all bar codes shall be in a horizontal configuration and shall be located in an area that is adjacent to the identification markings. The bar code shall be applied at minimum distances of 2 inches from the top and bottom edges and 1 inch from the side edges of the container. A minimum distance (quiet zone) of 0.25 inch from the nearest identification marking shall be maintained. The two basic message formats are stacked and in-line. Bar codes shall be applied in either of the following formats: (1) stacked on two separate lines with the NSN

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immediately above the contract number so that the bar codes are left-justified (left hand start characters that are vertically aligned) or (2) applied in line with the NSN preceding the contract number. A minimum separation space of 0.5 inch shall be maintained between the two bar codes. On fiberboard shipping containers, either the use of bar code labels or direct printing is acceptable. When labels are used for other than ration items, the color of the labels shall be white. If labels are used on ration items, the labels shall be tan, beige, taupe, or any color similar to the color of fiberboard.

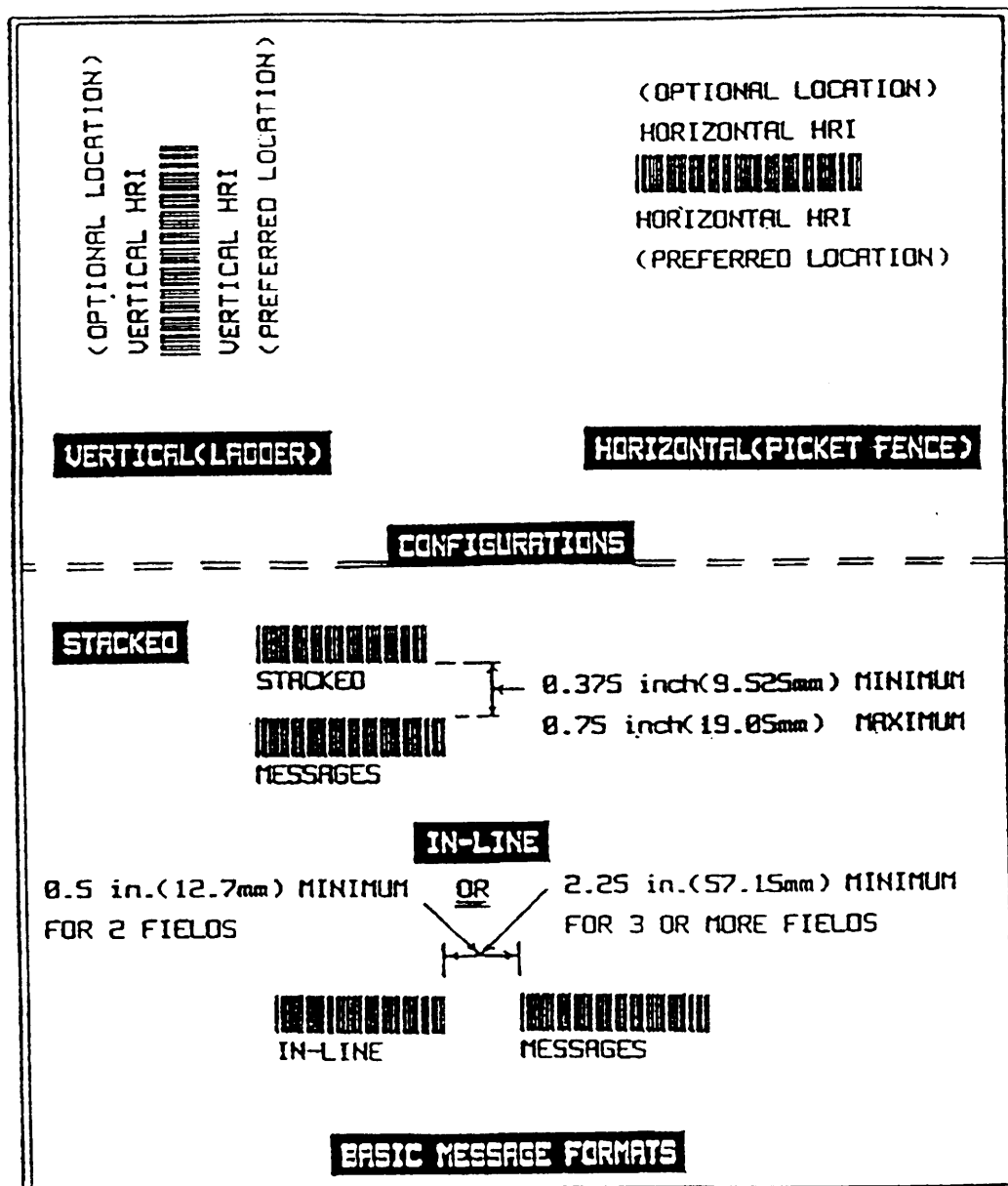


FIGURE 8. Bar code configurations and basic message formats.

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5. DETAILED REQUIREMENTS

5.1 Markings and marking materials.

5.1.1 Marking materials. Marking materials to be used shall be those materials specified in this standard or alternate choices approved by the cognizant activity. Contractors may obtain the DOD-unique tags and labels discussed herein from commercial sources after obtaining samples from either the procuring activity or the local Defense Contract Management Area Operations (DCMAO).

5.1.1.1 Waterproofing materials used as protective coatings. Transparent, waterproofing materials such as spar varnish, acrylic coating compound, sealing compound, label adhesive, and pressure-sensitive tape shall be used as protective coatings on container markings.

5.1.1.2 Stencil-marking material. Unless otherwise specified by the cognizant activity, any opaque, nonfading, fast drying, weather resistant stencil ink, lacquer, paint, or enamel shall be used for stencil marking. However, stencil ink conforming to A-A-208 shall not be used for the marking of fiberboard, chipboard, or any other porous type packaging materials which have surfaces that come in direct contact with a food item.

5.1.1.3 Obliterating lacquer, enamel, or paint. Unless otherwise specified by the cognizant activity, any quick-drying, opaque lacquer, ink, enamel, or paint that approximates the color of the container shall be used for obliterating markings. When using a lusterless enamel such as TT-E-515, the paint should conform to paint chip color Sand-30227 of FED-STD-595.

5.1.1.4 Lithographing, embossing, roller coating, ink jet printing, laser printing or stamping. Lithographing, embossing, roller coating, ink jet printing, laser printing, or stamping shall be accomplished by the use of commercial enamels, lacquers, or inks. When stamping is applied, commercial waterproof and petroleum-resistant inks offering durability on exposure to field service shall be used.

5.1.2 Labels, paper, pressure-sensitive, water-resistant. Unless otherwise authorized by the cognizant activity, paper labels shall be made of sized white paper stock having a smooth finish and a minimum base weight of 20 pounds. Labels shall be of a water-resistant grade of paper, film, fabric, or plastic and shall be coated on the unprinted side with a water-insoluble, homogeneous, pressure-sensitive, permanent type adhesive. The adhesive shall adhere to metal, plastic, or fiberboard surfaces under high and low temperatures. The labels shall have a finish

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that is capable of withstanding normal handling during shipment and storage. They shall be suitable for printing and writing on with ink without feathering or spreading. The applied label must remain securely in position under anticipated conditions of handling, shipment, and storage.

5.1.2.1 Protective coating of labels. If labels for exterior containers, except vehicles and related items, are not inherently waterproof, they shall be waterproofed by coating the entire outer surface of the label with a transparent, waterproofing material (see 5.1.1.1).

5.1.3 Tags. Unless otherwise specified by the cognizant activity, paper shipping tags conforming to A-A-900 shall be used. A metal, cloth, plastic, or paper shipping tag shall be used when it is impractical to mark with a stencil or apply a label on the container. For containers packed level A or level B, paper tags shall conform to Type B, Class 2 of UU-T-81. Metal shipping tags shall be corrosion resistant. Tags shall be attached with wire (minimum 23 gauge) or twine. The markings on cloth or paper tags shall be machine printed or typed with waterproof ink, while the markings on metal tags shall be with dies or punches. Markings on plastic tags shall be by stamping, stenciling, embossing, machine printing (not hand printing), or perforating. The materials for plastic tags shall meet the requirements of L-P-387.

5.1.4 Water-resistant envelopes. Water-resistant envelopes for packing lists and materiel release/receipt documents shall conform to PPP-E-540. A water-resistant, pressure-sensitive, tape such as PPP-T-60 or PPP-T-76 shall be used to attach the envelope to the package or container.

5.1.5 Packing list protectors. Packing list protectors shall conform to A-A-1907.

5.1.6 Conditions of surfaces to be marked. All surfaces to be marked shall be clean, dry, and free of contaminants. All marks not applicable to the shipment shall be covered with obliterating lacquer, ink, enamel, or paint. When shipping containers are consolidated into container vans for shipment to an ultimate consignee, the obliteration of current address markings is not required. When original unopened packs are readdressed for shipment by a DOD shipping element, contract data markings shall not be obliterated unless they interfere with other required markings.

5.1.7 Legibility, durability, and color of markings. All markings shall be clear, legible, durable, and nonfading and shall be not less than the size specified. Unless otherwise specified by the cognizant activity, the color of all markings shall be in contrast to the surface on which they are applied.

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5.1.8 Methods of marking unit packs, intermediate containers, exterior shipping containers, sacks and bags, and palletized unit loads. Marking shall be by the use of preprinted labels, ink jet printing, laser printing, stamping, stenciling, machine printing, lithographing, silk-screening, photo marking, embossing, decals, transfers, or other similar processes (dot matrix or conventional methods are acceptable). Hand printing shall not be used except for the marking of gross weight and cube data, when required. The abbreviations "WT" and "CU" may also be hand printed.

5.1.8.1 Stenciling. Stenciling may be accomplished by rolling, brushing, or spraying with the materials specified in 5.1.1.2.

5.1.8.2 Machine printing. The required markings may be machine printed directly on all interior and exterior containers at the time of manufacture (see 5.1.8). Self-linked, porous stencils, impressed by a data processing machine or typewriter, may be used.

5.1.8.3 Labels.

5.1.8.3.1 Use of labels. Unless otherwise specified in the procurement contract or order, bar code labels and address labels are required on all levels of military packaging. Labels may be used for domestic and overseas address markings, identification and contract data markings, regulation and statute markings, and international logistics shipment markings. When labels are used for identification and contract data, the markings shall be of the size specified in 5.1.10, which permits ready identification. Labels for containers that are packed levels A and B, except for pressure-sensitive labels, shall be securely affixed with adhesive (see 5.1.8.3.2). Labels for containers that are packed level C shall be securely affixed with adhesive in accordance with commercial practices. Labels for containers that are packed level A shall be waterproofed by coating the entire label and the adjacent container surfaces with waterproof material (see 5.1.1.1). Labels that are pressure-sensitive may be used on wood containers after the labeling area has been given a smooth coat of spar varnish or an acrylic, polyurethane, or epoxy coating. Lettering on labels must not smear or blur under anticipated conditions of handling, shipping, and storing. When labels are used for other than ration items, the labels shall be white. If labels are applied to ration items, the color of the labels shall be tan, beige, or any color that is similar to the color of fiberboard taupe.

5.1.8.3.2 Affixing and securing paper labels (except for labels on vehicles and related equipment). Paper labels that are other than pressure-sensitive shall be securely affixed with a water-resistant label adhesive that is applied on the complete underside of the label. An alternate method of affixing and protecting

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labels on metal and fiberboard containers is by placing a transparent, waterproof, pressure-sensitive tape such as PPP-T-60 over the entire surface of the label. When pressure-sensitive labels are used, the adhesive used during the manufacture of the label shall be as specified in 5.1.2.

5.1.9 Marking panel. For TPK-1 shipments, the marking panel shall be constructed of any class and grade of solid fiberboard, and it must be affixed with tape or adhesive so as to remain securely attached to the load. For TPK-2 shipments, the marking panel shall be constructed of weather-resistant fiberboard. The panel shall be secured to the load as specified for TPK-1 except that if tape is used, it must be weather resistant and must be no less than 2 inches wide. The tape shall be applied along each of the four edges of the panel, and the ends of the tape shall not extend more than 3 inches past the adjacent panel ridge.

5.1.10 Size of markings. Lettering shall be in capital letters of equal height. Printed or stenciled shipping case markings shall be not less than 7/16 inch on interrupted stencil letters and not less than 3/8 inch on solid letters. Lettering may be reduced to 1/4 inch (solid letters) when available space on the panel to be marked is not sufficient for larger size lettering. Markings applied by noncontact methods such as ink jet or laser printing shall be not less than 1/4 inch. When markings on shipping sacks/bags are printed or stenciled, they shall be not less than 3/8 inch nor more than 1 inch lettering. The lettering for address markings on labels for shipping containers shall be not less than 1/8 inch. Lettering for identification and contract data markings on shipping containers shall be not less than 1/4 inch (solid or dot matrix letters). Markings on paper, plastic, or cloth tags for shipping containers shall be not less than 1/8 inch and shall be not less than 3/16 inch on metal tags. Markings on palletized loads shall be 3/4 inch or larger for interrupted stenciled letters and 1/2 inch or larger for solid letters.

5.2 Special markings. The special markings discussed in this standard are not all inclusive but are examples of the types of special markings required on containers of semiperishable and perishable subsistence. All required special markings such as "THIS SIDE UP," "THIS END UP," project codes (e.g., ARI or ABC), or arrows shall be specifically identified in the procurement document. Unless otherwise specified, special markings shall be placed in a conspicuous location on the identification-marked end of the container. If sufficient space is not available on the identification-marked end of the container, the special markings shall be placed on the side of the container immediately to the right of the identification-marked end. No markings shall be placed on the bottom of the container.

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5.2.1 Fragile items. Except for the bottom surface, at least three surfaces of each shipping container packed with delicate or fragile items shall be marked "FRAGILE" by stenciling or labeling. However, shipping containers that are imprinted on at least three surfaces with "GLASS-DO NOT DROP OR THROW" or "GLASS-HANDLE WITH CARE" or are imprinted with a similar precautionary marking shall not require "FRAGILE" markings.

5.2.2 Shelf-life markings. The expected shelf-life for subsistence items shall be included in the applicable solicitation or contract. However, shelf-life items are managed and controlled in accordance with DOD 4140.27-M. There are two types of shelf-life items. Type I have a definite nonextendible period of shelf-life and are assigned alpha shelf-life codes (SLCs) (including "X"), while type II have an assigned shelf-life time period that may be extended after completion of inspection, test, or restorative action. Type II items are assigned numeric SLCs and "X". Time periods, SLCs, and supply condition codes are in appendixes A and B of DOD 4140.27-M, respectively. Items assigned an SLC of zero (non-deteriorative) do not require shelf-life markings. When shelf-life markings are specified in contracts, purchase orders, and other subsistence procurement documents, they shall be shown below item identification data on unit packs and intermediate and exterior containers and shall include the following information:

- a. For Type I shelf-life items: the date of pack (DOP) and the expiration (EXP) date (see notes).
- b. For Type II shelf-life items: the date of pack (DOP) and the inspection/test date (ITD) (see notes). The inspection/test date is sometimes marked as "INSP/TEST DATE."

EXAMPLE 1 (TYPE I)
DOP 10/91
EXP DATE 10/93

EXAMPLE 2 (TYPE II)
DOP 10/92
ITD 10/93

- NOTES:
1. The words "type I" or "type II" shall not be applied as part of the shelf-life markings. The DOP, EXP DATE, and ITD or INSP/TEST DATE shall be expressed by the numeric month followed by the last two digits of the calendar year, with the day of the month being the last day. When two or more unit packs of identical items are marked with different DOPs, the earliest date shall be shown on the shipping container.
 2. The DOP shall be the date on which the item was packaged in the unit pack, regardless of the date of packing, shipping, or additional processing.

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3. The EXP DATE is the date by which nonextendible items (type I) should be discarded as being no longer suitable for issue/use.

4. The ITD or INSP/TEST DATE is the date by which extendible items (type II) should be subjected to inspection/testing. To calculate the ITD for type II items, add the shelf-life value to the date of pack. For example, if the DOP is September 1992 and the shelf life is six months, the ITD is computed as follows: 9/92 plus 6 months equals 3/93. The ITD is 3/93.

5.2.3 Marking of Agency for International Development (AID) shipments (Office of Public Safety and Disaster Relief) (see figure 9). When specified by the requisitioning or procuring activity, AID shipments (including subsistence commodities) to recipient foreign governments and international organizations, whether shipped from CONUS, overseas stocks, or from offshore procurement sources, shall be identified with the handclasp emblem applied on each side of a container. Bulk shipments of items and loose, unpacked items shall not be marked with the emblem. The emblem shall also be applied on two areas of bundled items and on each side of the hood or cap of vehicles. It shall be printed directly on the container or shall be applied as a label or paper tag. The label size shall be 2 3/8 by 3 1/8 inches, 5 by 6 9/10 inches, 8 1/2 by 11 3/16 inches, or 11 by 14 1/2 inches. The largest possible emblem consistent with available marking space shall be used. The tag size shall be 6 1/4 by 3 1/8 inches.

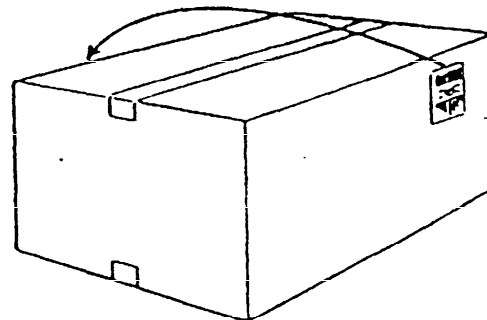
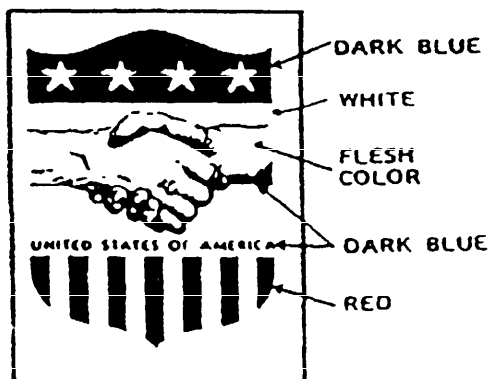


FIGURE 9. AID handclasp emblem.

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5.3 Packing lists. When a packing list is required for a shipment of semiperishable or perishable subsistence, at least one copy of the packing list shall be placed inside the shipping container. In addition, one copy shall be placed in a PPP-E-540, class 1, style 4, water-resistant envelope that shall be attached to the outside of the shipping container on the side of the container that is to the right of the identification-marked end. A DD Form 250 (Materiel Inspection and Receiving Report) should be used as a packing list for contractor- or vendor-originated shipments. Any locally prepared or procured packing list may be used for shipments generated by DOD activities. For information on the documentation that must accompany SEAVAN/MILVAN shipments, see 4.2.6.3.

5.4 DD Form 1348-1 (DOD Single Line Item Release/Receipt Document) and DD Form 1348-1A (Issue Release/Receipt Document). Two copies of a DD Form 1348-1 or a DD Form 1348-1A shall be enclosed in a PPP-E-540, class 4, style 4, water-resistant envelope and shall be attached in a protected location on the shipping container/unitized load. When a shipment involves multiple containers/unitized loads, the water-resistant envelope shall be placed on the container/unitized load that is nearest the door, when loading. This will assist in identification when off loading. Unless otherwise specified, overseas shipments shall be further protected by placing the envelope containing the materiel release/receipt documents in a packing list protector conforming to A-A-1907 and by marking the words "MATERIAL RELEASE/RECEIPT DOCUMENTS" on the outside of the packing list protector. When requested by the consignee or at the discretion of the shipper, additional copies of the DD Form 1348-1 or DD Form 1348-1A may be provided with the shipment.

5.5 English-metric conversion. In order to accommodate the requirements of DOD 4120.18, the following tables (I and II), which describe the English-metric conversions applicable to this standard, are provided. For convenience in calculation, the metric equivalents are expressed to two decimal places (nearest hundredth), wherever practical.

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TABLE I. Standard English-metric equivalentsVolume:

1 fluid ounce	=	29.57 milliliters	1 quart	=	0.95 liter
1 pint	=	0.47 liter	1 gallon	=	3.79 liters

Weight:

1 ounce (avoirdupois) = 28.35 grams
 1 pound (avoirdupois) = 453.59 grams or 0.454 kilogram

Length:

1 inch	=	2.54 centimeters
1 foot	=	30.48 centimeters or 0.305 meter
39.37 inches	=	1 meter (3.28 feet = 1 meter)

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TABLE II. MIL-STD-129-3 English-metric conversionsVolume (Liquids):

<u>Gallons</u>	=	<u>Liters</u>
1		3.79
5		18.95
50		189.50
55		208.45

Weight:

<u>Ounces</u>	=	<u>Grams</u>
1		28.35
10		283.50
(1000 grams = 1 kilogram)		

Volume (Solids):

<u>Cubic feet</u>	=	<u>Cubic meter</u>
1.0		0.030
1.2		0.036
1.3		0.039
2.0		0.060
2.5		0.075
3.0		0.090
4.1		0.123
4.7		0.141
5.3		0.160

<u>Cubic feet</u>	=	<u>Cubic meters</u>
6.0		0.18
6.5		0.195
8.4		0.25
9.0		0.27
10.0		0.30
12.0		0.36
30.0		0.90
60.0		1.80
66.5		1.995

Pounds = Kilograms

1.	0.45
2.2	1.0
10.	4.54
11.	4.99
50.	22.7
52.	23.61
65.	29.51
75.	34.05

Pounds = Kilograms

100	45.4
125	56.75
144	65.37
150	68.10
200	90.80
500	227.0
1000	454.0
1700	771.8

Inches = Centimeters

0.0258	0.07
0.03	0.08
0.0625	0.16
0.095 (3/32)	0.24

Inches = Centimeters

0.50	1.27
0.875 (7/8)	2.22
0.90	2.29
1.0	2.56

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TABLE II. MIL-STD-129-3 English-metric conversions - Continued.

<u>Inches</u>	=	<u>Centimeters</u>	<u>Inches</u>	=	<u>Centimeters</u>
0.10		0.25	1.5		3.81
0.125 (1/8)		0.32	2.0		5.08
0.188 (3/16)		0.48	2.5		6.35
0.375 (3/8)		0.95	3.0		7.62
4.0		10.16	50.0		127.0
5.0		12.70	100.0		254.0
10.0		25.40	144.0		365.76

NOTE: 10 millimeters equals 1 centimeter.

<u>Feet</u>	=	<u>Meters</u>
1		0.305
3.28		1.0
25		7.62
50		15.24
150		45.73

Temperature conversion:

To change degrees Celsius (C) to degrees Fahrenheit (F), multiply temperature by 1.8 and add 32 degrees F.

To change degrees Fahrenheit (F) to degrees Celsius (C), subtract 32 from the temperature and divide by 1.8.

Degrees Fahrenheit = Degrees Celsius

0	-18
32	0
35	2
46	8
100	38
212	100

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6. NOTES

THIS SECTION IS NOT APPLICABLE TO THIS STANDARD.

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CONCLUDING MATERIAL

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Preparing activity:

Army - SM
(Project PACK-0981)

Reviewing activities:

Army - AM, GL, MT
Navy - AS, CG, MC, SH
Air Force - 99
DLA - GS, SS

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1. DOCUMENT NUMBER
MIL-STD-129-3

2. DOCUMENT DATE (YYMMDD)
930615

3. DOCUMENT TITLE

Marking for Shipment and Storage - Semiperishable and Perishable Subsistence

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

7. DATE SUBMITTED (YYMMDD)

(1) Commercial

(2) AUTOVON
(if applicable)

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LOGSA PSCC
ATTN: AMXLS-TF-p

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