

## **SECTION C**

This document covers hot beverage box (HBB) for use by the Department of Defense as a component of operational rations.

### **C-1 ITEM DESCRIPTION**

#### **PACKAGING REQUIREMENTS AND QUALITY ASSURANCE PROVISIONS FOR MIL-DTL-32438, HOT BEVERAGE BOX**

## **SECTION D**

### **D-1 PACKAGING**

A. Material safety data sheets. When required, a material safety data sheet (MSDS) shall be prepared in accordance with the requirement of FED-STD-313.

### **D-2 LABELING**

A. MSDS. The MSDS, when required, shall be attached to the unit loads.

### **D-3 PACKING**

A. Packing for shipment to field units. Five (5) HBBs shall be packaged in a RSC. The RSC shall be made of V3c. Figure 1 specifies the design requirements and dimensions of the box. The five (5) activation fluid units shall be packed into an insert that will be placed within the RSC. Figure 2 specifies the design requirements and dimensions of the insert.

B. Packing for shipment to ration assembler. Not more than 40 pounds of product shall be packed in a fiberboard shipping box constructed in accordance with style RSC of ASTM D5118/D5118M, Standard Practice for Fabrication of Fiberboard Shipping Boxes. The fiberboard shall conform to type CF, class D, variety SW, burst grade 200 or ECT grade 32 of ASTM D4727/D4727M, Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes. Each box shall be closed in accordance with ASTM D1974/D1974M, Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes.

### **D-4 UNITIZATION**

A. Unit loads. Unit loads shall be as specified in MIL-STD-147, Palletized Unit Loads. The HBBs, packed as specified in D-3, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding method D and film bonding

methods F or G. A bottom cap and top cap, conforming to MIL-STD-147, shall be used on each unitized load. Stability dunnage type 29 shall be used when bonding method G is employed. Each palletized unit load shall be provided with all legally required documentation.

### **D-5 MARKING**

A. Shipping containers and unit loads. Shipping containers and unit loads shall be marked in accordance with MIL-STD-129, Military Marking for Shipment and Storage.

### **SECTION E INSPECTION AND ACCEPTANCE**

The following quality assurance criteria, utilizing ANSI/ASQ Z1.4, Sampling Procedures and Tables for Inspection by Attributes, are required. Unless otherwise specified, single sampling plans indicated in ANSI/ASQ Z1.4 will be utilized. When required, the manufacturer shall provide the Certificate(s) of Conformance to the appropriate inspection activity. Certificate(s) of Conformance not provided shall be cause for rejection of the lot.

#### A. Definitions.

(1) Critical defect. A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the item; or a defect that judgment and experience indicate is likely to prevent the performance of the major end item, i.e., the consumption of the ration.

(2) Major defect. A major defect is a defect, other than critical, that is likely to result in failure, or to reduce materially the usability of the unit of product for its intended purpose.

(3) Minor defect. A minor defect is a defect that is not likely to reduce materially the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

B. Classification of inspections. The inspection requirements specified herein are classified as follows:

(1) Conformance inspection. Conformance inspection shall include the examinations/tests and the methods of inspection cited in this section.

**E-5 QUALITY ASSURANCE PROVISIONS (PRODUCT)**

A. Product examination. The finished product shall be examined and tested for conformance to the requirements specified in MIL-DTL-32438 and in this Packaging Requirements and Quality Assurance Provisions document.

**E-6 QUALITY ASSURANCE PROVISIONS (PACKAGING AND PACKING MATERIALS)**

A. Packing.

(1) Shipping container and marking examination. The filled and sealed shipping containers shall be examined for the defects listed in table I. The lot size shall be expressed in shipping containers. The sample unit shall be one shipping container fully packed. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0 for major defects and 10.0 for total defects.

TABLE I. Shipping container and marking defects

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Marking missing or incorrect or illegible.
102		Inadequate workmanship. <u>1/</u>
	201	Insert missing or does not separate activation fluid units.
	202	Not 5 HBBs when specified.
	203	More than 40 pounds of product.

1/ Inadequate workmanship is defined as, but not limited to, incomplete closure of container flaps, loose strapping, inadequate stapling, improper taping, or bulged or distorted container.

B. Unitization.

(1) Unit load examination. The unit load shall be examined in accordance with the requirements of MIL-STD-147, Palletized Unit Loads. Any nonconformance shall be classified as a major defect.

**SECTION J REFERENCE DOCUMENTS**

Unless otherwise specified, the applicable version of these documents is that which is active on the date of the solicitation or contract.

**FEDERAL STANDARD**

FED-STD-313	Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished To Government Activities
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**DEPARTMENT OF DEFENSE SPECIFICATIONS**

MIL-STD-147	Palletized Unit Loads
MIL-STD-129	Military Marking for Shipment and Storage
MIL-DTL-32438	Hot Beverage Box

**NON-GOVERNMENTAL STANDARDS**

**AMERICAN SOCIETY FOR QUALITY (ASQ) [www.asq.org](http://www.asq.org)**

ANSI/ASQ Z1.4	Sampling Procedures and Tables for Inspection by Attributes
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**ASTM INTERNATIONAL [www.astm.org](http://www.astm.org)**

D1974/D1974M	Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes
D4727/D4727M	Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes
D5118/D5118M	Standard Practice for Fabrication of Fiberboard Shipping Boxes

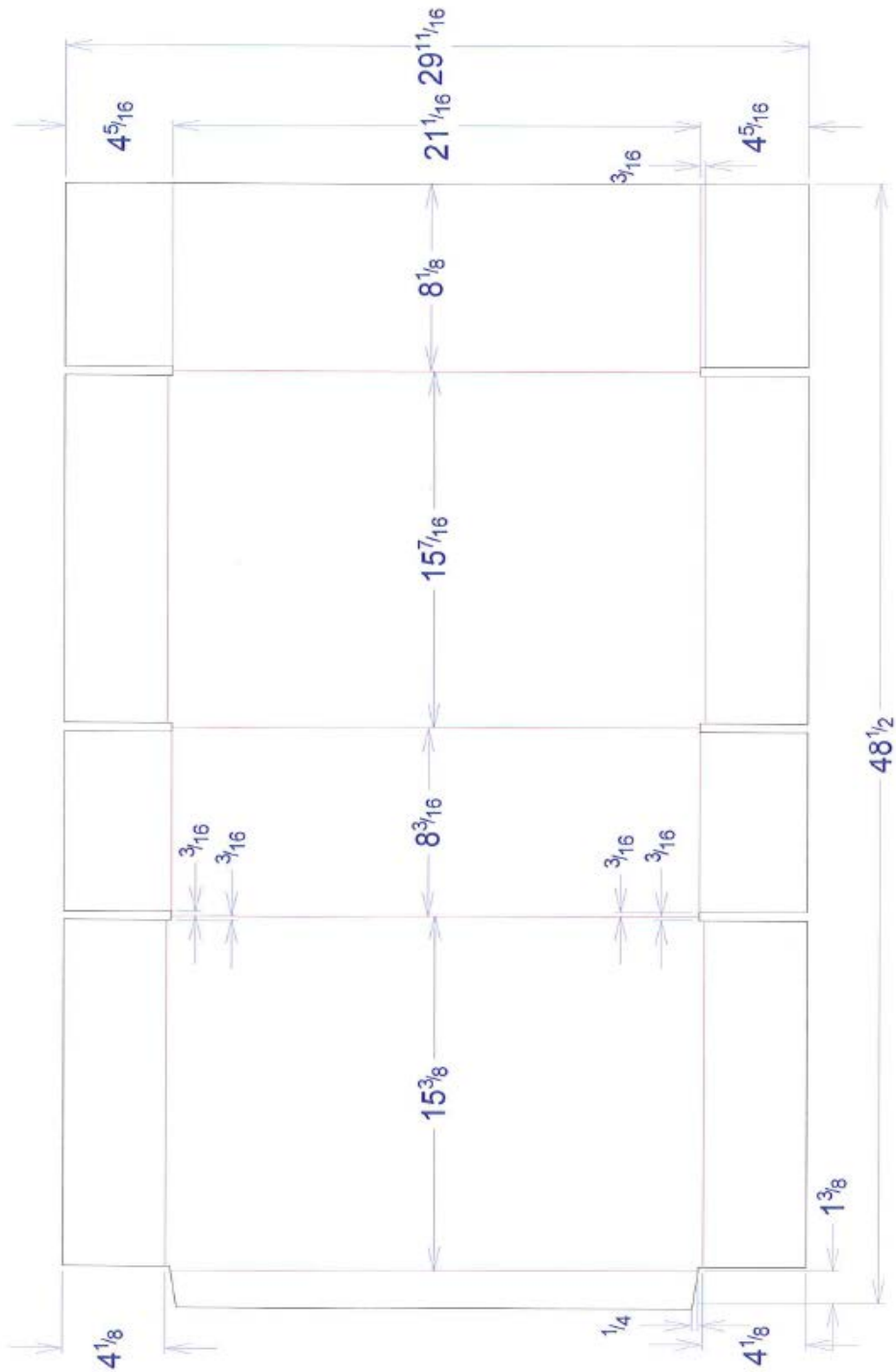


FIGURE 1. Hot Beverage Box 5 Count Shipping Case

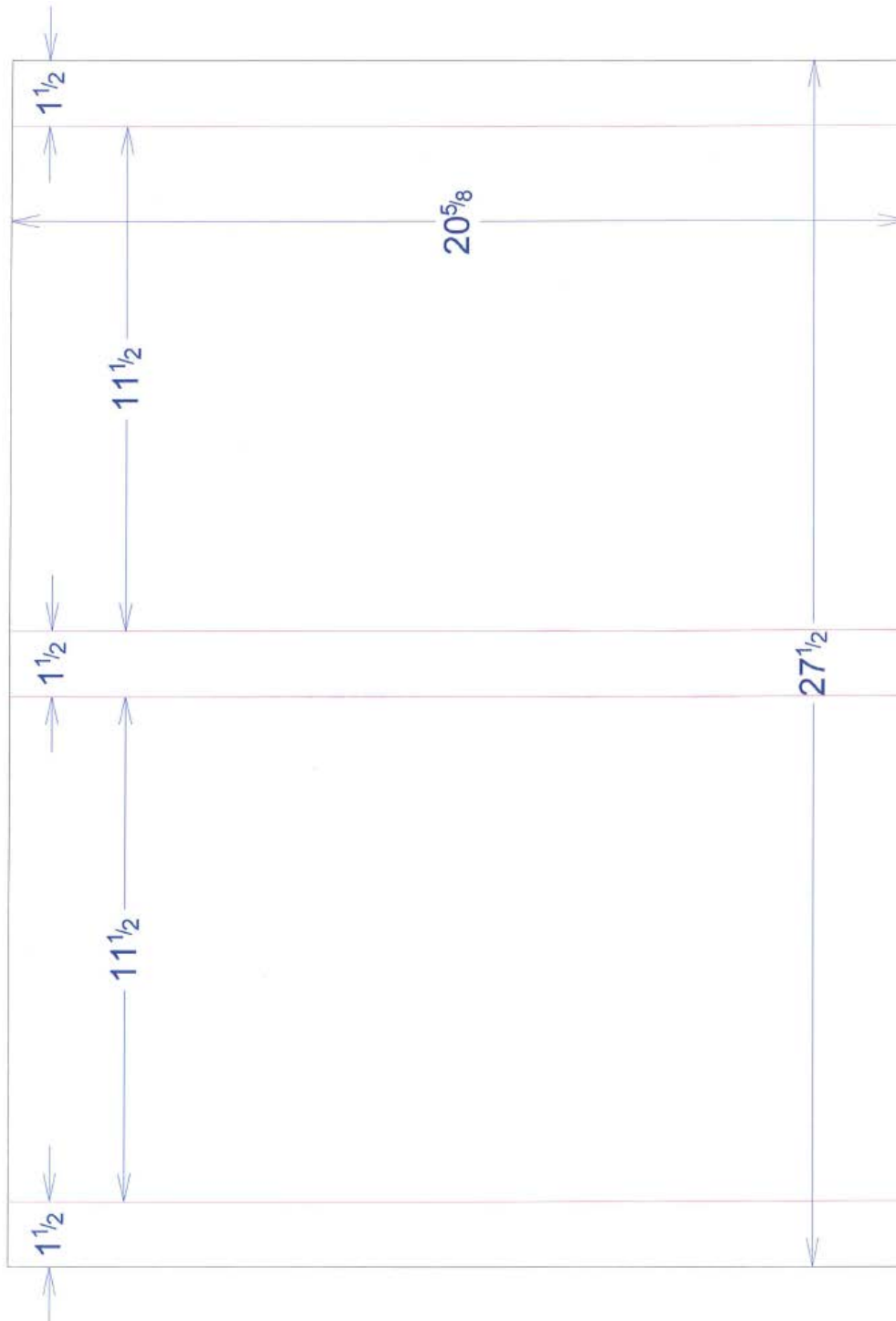


FIGURE 2. Hot Beverage Box 5 Count Shipping Case Insert