# **APPENDIX 26N**

# UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COM-PONENTS ON 4-WAY ENTRY PALLETS

CARTRIDGE, 40MM, PACKED VARIOUS QUAN-TITIES PER M548 METAL BOX, UNITIZED 36 BOXES PER 40" X 48" PALLET; APPROX BOX SIZE 18-19/32" L X 8-19/64" W X 14-19/32" H

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002

DISTRIBUTION STATEMENT A:

APPROVED FOR PUBLIC RELEASE;

### U.S. ARMY MATERIEL COMMAND DRAWING APPROVED, U.S. ARMY FIELD SUPPORT COMMAND CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4. **DO NOT SCALE APRIL 1982** 20JAN **WILLIAM R. FRERICHS** BASIC ENGINEER OR **TECHNICIAN** LAURA A. FIEFFER **REVISION NO. 6 JANUARY 2005** APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND TRANSPORTATION ENGINEERING SEE THE REVISION LISTING ON PAGE 2 DIVISION VALIDATION CLASS DIVISION DRAWING ENGINEERING DIVISION 4116/ 19 48 20PA1002 ENGINEERING 26N DIRECTORATE U.S. ARMY DEFENSE AMMUNITION CENTER

PALLET UNIT DATA								
ITEMS INCLUDED		HAZARD						
NSN	DODIC	CLASS AND DIVISION	COMPAT- IBILITY GROUP	APPROX WEIGHT LBS				
1310- 01-159-3161 01-368-7104 01-159-8043 01-350-0247 01-420-9268 00-471-3615 01-196-2654 01-159-3184 01-218-7069	B472 B472 B542 B542 B542 B570 B571 B576 B584		ERT —	2, 324 2, 324 2, 324 2, 324 2, 324 2, 324 2, 324 2, 324 2, 324				

HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS
FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION
OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST
RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER
APPROVED LISTING(S).

### **REVISIONS**

REVISION NO. 1, DATED DECEMBER 1983, CONSISTS OF:

- 1. ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.
- 2. CHANGING BOX DIMENSIONS.

REVISION NO. 2, DATED DECEMBER 1985, CONSISTS OF:

**UPDATING DRAWING TITLE.** 

**REVISION NO. 3, DATED MAY 1986, CONSISTS OF:** 

ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 4, DATED SEPTEMBER 1993, CONSISTS OF:

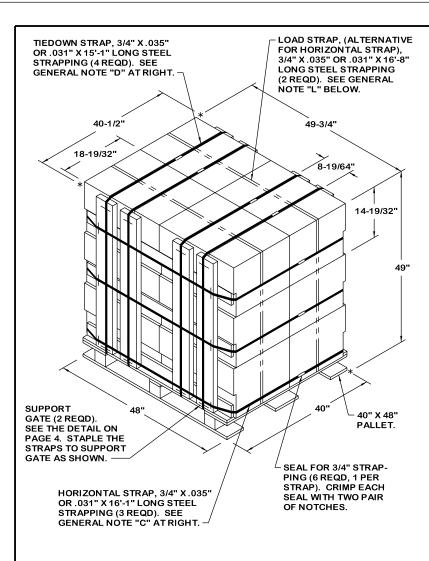
ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.

**REVISION NO. 5, DATED JULY 1994, CONSISTS OF:** 

ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 6, DATED JANUARY 2005, CONSISTS OF:

- 1. ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.
- 2. UPDATING DRAWING FORMAT AND ADDING PAGES 3 AND 4.



### **PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

DUNNAGE	40MM CARTRIDGES (4	 	84 LBS	(APPROX)
	TOTAL WEIGHT CUBE			

BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
1" x 4" 2" x 6"	24. 00 28. 67	8. 00 28. 67			
NAILS	NO. REQD	POUNDS			
6d (2")	72	0. 43			
PALLET, 40" X 48" REQD 80 LBS STEEL STRAPPING, 3/4" - 108.58' REQD 9.70 LBS SEAL FOR 3/4" STRAPPING 7 REQD NIL STAPLE, 15/16" X 3/4" 28 REQD NIL					

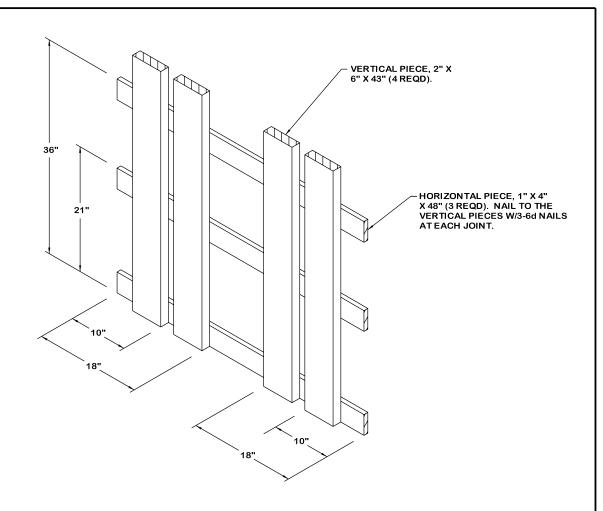
### **GENERAL NOTES**

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. DIMENSIONS, CUBE AND WEIGHT OF A PALLET UNIT WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. INSTALL EACH HORIZONTAL STRAP TO ENCIRCLE A LAYER OF BOXES ON THE PALLET AND TO BE ALIGNED WITH THE HORIZONTAL PIECES OF THE "SUPPORT GATE" AS SHOWN. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE ALIGNED WITH THE VERTICAL PIECES OF THE "SUPPORT GATE" AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE HORIZONTAL STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

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CARLOADING - - - 19-48-4115-5PA1002
TRUCKLOADING - - 19-48-4117-11PA1003
STORAGE - - - - 19-48-4118-1-2-3-
4-14-22PA1002
END OPENING ISO
CONTAINER - - - 19-48-4153-15PA1002
MILVAN - - - - 19-48-4166-15PA1003
SIDE OPENING ISO
CONTAINER - - - 19-48-4267-15PA1009
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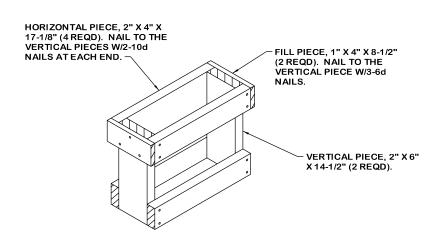
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 40MM CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 2, PROVIDED THE BOX PACK DOES NOT VARY FROM WHAT IS DELINEATED HEREIN. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.
- H. THE STYLE 1 PALLET DELINEATED IN THE DETAIL AT LEFT NEED NOT HAVE CHAMFERS OR STRAP SLOTS AS SPECIFIED WITHIN MILITARY SPECIFICATION MIL-P-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES
- K. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION. ONE LAYER OF BOXES MUST BE OMITTED, SUPPORT GATE HEIGHT MUST BE DECREASED TO 28-1/2" AND THE UPPERMOST HORIZONTAL PIECE MUST BE OMITTED. TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-8", AND THE UPPERMOST HORIZONTAL STRAP MUST BE OMITTED. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 34-1/2", A GROSS UNIT WEIGHT OF 1,101 POUNDS. AND A UNIT CUBE OF 40.0 CUBIC FEET. ADDI-TIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO INTERMODAL FREIGHT CONTAINER, VAN TRAILER, OR BOXCAR. THE DETERMINATION TO REDUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RE-SPONSIBLE COMMAND AND WILL BE BASED UPON ECONOMICS OF TRANSPORTATION AND HANDLING.
- L. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS MAY BE PRE-POSITIONED ON THE PALLET DECK OR THREADED THROUGH THE STRAP SLOTS.
- M. FOR DETAILS OF THE M548 METAL BOX SEE LAKE CITY ARSENAL DRAWING 7258943.

PAGE 3



### **SUPPORT GATE**

(2 REQD)



## FILLER ASSEMBLY

(FOR MINUS ONE BOX)