### **APPENDIX 8K**

## UNITIZATION PROCEDURES FOR **BOXED AMMUNITION AND COMPO-NENTS ON 4-WAY ENTRY PALLETS**

CARTRIDGE, CALIBER .30, BLANK, M1909, OR **DUMMY, M13, PACKED VARIOUS QUANTITIES PER M2 SERIES METAL CONTAINER, 2 CONTAINERS PER** WIREBOUND BOX, UNITIZED 48 BOXES PER 40" X 48" PALLET; APPROX BOX SIZE 14-1/2" L X 12-3/4" W X 8-3/8" 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 DISTRIBUTION IS UNLIMITED.

#### U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER HANSSEN.JO Digitally signed by HANSSEN.JOSEPH.W SEPH.W.1376 1376495538 Date: 2021.08.12 13:44:32 -05'00' FCDD-ACE-LTP APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND

WARD.GINA. Digitally signed by WARD.GINA.M.1369379808 M.1369379808 Date: 2021.08.15 09:54:23

APPROVED BY ORDER OF COMMANDING GENERAL. U.S. ARMY MATERIEL COMMAND

BRAILSFORD.KEIT Digitally signed by H.ANTHONY.10286 BRAILSFORD.KEITH.ANTHONY. 1028655661 Date: 2021.08.17 07:31:35 -05'00'

U.S. ARMY DEFENSE AMMUNITION CENTER

CAUTION: VERIFY PRIOR TO USE AT https://www.dau.edu/cop/ammo/Pages/Default.aspx THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.

l			DO	NOT SCALE	JULY 1983							
ſ	DESIGN	BA	ASIC	WILLIAM FRERICHS								
L	ENGINEER	R	REV.	MADELINE BANKS	RE	REVISION NO. 3 AUGUST 20			JGUST 2021			
I	ENGINEERING DIVISON			FIEFFER.LAUR Digitally signed by								
┨				A.A.1230375727 Date: 2021.08.11 12:12:46 -05'00'	SEE THE REVISION LISTING ON PAGE 2							
Ì	TEST ENG	· I NIA		FELICIANO.AD Digitally signed by FELICIANO.ADIN.1259200373	CLASS	DIVISION	FILE					
	TEST REPORT			IN.1259200373 Date: 2021.08.12 11:47:06								
	SAFE			FAIRHURST.ROBER   Digitally signed by FAIRHURST.ROBERT.JOHN.10157   DIGITAL STRUCTURE   DIGITAL SIGNED   DIG		48	411	6/8K	20PA1002			

PALLET UNIT DATA											
ITEMS INCL	.UDED										
NSN	DODIC	*HAZARD CLASS AND DIVISION	*COMPATI- BILITY GROUP	APPROX WEIGHT (LBS)							
1305- 00-028-6148 00-301-1670 00-542-0420	A186 A224 A224	INE 1.4 1.4	S S	2,923 2,923 2,919							

 $<sup>^{\</sup>star}$ HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PUR-POSES 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 APRIL 2005, CONSISTS OF:

- 1. ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
- 2. UPDATING DRAWING FORMAT.

REVISION NO. 2, DATED AUGUST 2018, CONSISTS OF CHANGES PER ECP R19K3002-NOR 1 AND ECP R18K2021-NOR 8:

- 1. ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
- ADDING .029" THICKNESS STRAPPING TO THE ISOMETRIC VIEW ON PAGE 3.
   UPDATING GENERAL NOTE "H" (CHAMFERS) ON PAGE 3.

REVISION NO. 3, DATED AUGUST 2021, CONSISTS OF CHANGES PER ECP R20K2004-NOR 4:

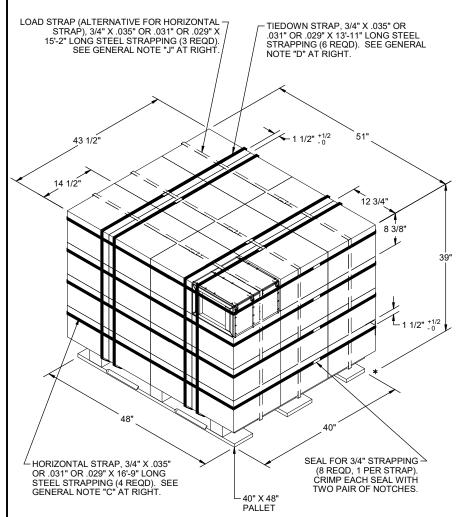
DELETING ITEMS BY NATIONAL STOCK NUMBER FROM THE "PALLET UNIT DATA" CHART.

#### **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. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE TOP OF EACH LAYER. 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. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE SIDE CLEATS OF THE END PANELS OF THE BOX. 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.

CARLOADING - - - 19-48-4115-5PA1002
TRUCKLOADING - - 19-48-4117-11PA1003
STORAGE - - - 19-48-4118-1-2-3-4-1422PA1002
END OPENING ISO
CONTAINER - - - 19-48-4153-15PA1002
MILVAN - - - - 19-48-4166-15PA1003
SIDE OPENING ISO
CONTAINER - - - 19-48-4267-15PA1009

- 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 .30 CALIBER 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-DTL-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE PRE-POSITIONED AND LOCATED AS SHOWN IN THE DETAIL AT LEFT. NOTICE: WHEN LOAD STRAPS ARE BEING USED IN LIEU OF HORIZONTAL STRAPS, THE THREE OUTBOARD BOXES ON THE 40" SIDES OF THE BOTTOM LAYER OF THE UNIT WILL BE POSITIONED WITH THE TOPS DOWNWARD, AND THE THREE OUTBOARD BOXES ON THE 40" SIDES OF THE TOP LAYER OF THE UNIT WILL BE POSITIONED WITH TOPS UPWARDS. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN
- K. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.
- L. FOR DETAILS OF THE WIREBOUND BOX SEE ARDEC DRAWING 7553659.



#### PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

48 BOXES OF DUNNAGE PALLET	 	 	 	-	-	 -	´ -	-	-	-	-	11 LBS	
												2,923 LBS	

# PALLET, 40" x 48" - - - - - 1 REQD - - - - - 80 LBS STEEL STRAPPING, 3/4" - 122.67' REQD - - - - 10.95 LBS SEAL FOR 3/4" STRAPPING - - 8 REQD - - - - - NIL

