APPENDIX 15C

UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COMPONENTS ON 4-WAY ENTRY PALLETS

CARTRIDGE, 20MM, PACKED VARIOUS QUANTITIES
PER M548 METAL BOX, UNITIZED 24 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.

THIS APPENDIX SUPERSEDES THE TWO-LAYER UNITIZATION PROCEDURES OF INTERIM DRAWING 19-48-4141-20PA1003, DATED FEBRUARY 1977.

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U.S. ARMY MATERIEL COMMAND DRAWING DRAFTSMAN BETTY J. KUNDERT APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND ENGINEER SANDRA M. SCHULTZ SUPPLY ENGINEERING DIVISION TRANSPORTATION VALIDATION ENGINEERING ENGINEERING NOIZIVIO NOIZIVIO AMSTA-AR-ESK APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND JUNE 1981 CLASS NOIZIVIO DRAWING FILE U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL REVISION NO. 5 SEPTEMBER 1996 4116/ 20PA 19 48 15C 1002 SEE THE REVISION LISTING ON PAGE 2

PALLET UNIT DATA					
ITEMS INCLU	JDED	HAZARD CLASS AND DIVISION		ADDDOV	
NZN	DODIC	OD CLASS	COMP GROUP	WEIGHT LBS	
1305- 00-522-3700 00-785-2829 01-118-9930 00-935-6171 01-118-9929 00-926-9278 00-143-7050 00-143-7049 00-180-9271 00-143-7167 00-143-7168 00-935-9104 01-116-3931 01-118-9928 00-752-8114 01-116-4560 00-935-2019 01-116-3930 00-799-8669 01-116-3923	A651 A651 A659 A659 A791 A813 A834 A834 A835 A846 A890 A890 A891 A891 A892 A892 A924 A924	1.4 1.4 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (04)1.2 (1.4 1.4 1.4 1.4		3,647 4,000 米 3,983 4,000 米 3,983 4,000 米 3,983 2,782 2,782 2,782 2,782 2,782 2,782 2,782 4,000 米 4,000 米 4,000 米 4,000 米 3,599 4,000 米 3,983 4,000 米 4,000 米 3,983 4,000 米	

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).

* SEE GENERAL NOTE "K" ON PAGE 3.

REVISIONS

REVISION NO. 1, DATED NOVEMBER 1981, CONSISTS OF:

- ADDING NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
- 2. REDESIGNING "FILLER ASSEMBLY".

REVISION NO. 2, DATED NOVEMBER 1982, CONSISTS OF:

 ADDING NOTE "J" TO GENERAL NOTES SECTION ON PAGE 3.

REVISION NO. 3, DATED DECEMBER 1983, CONSISTS OF:

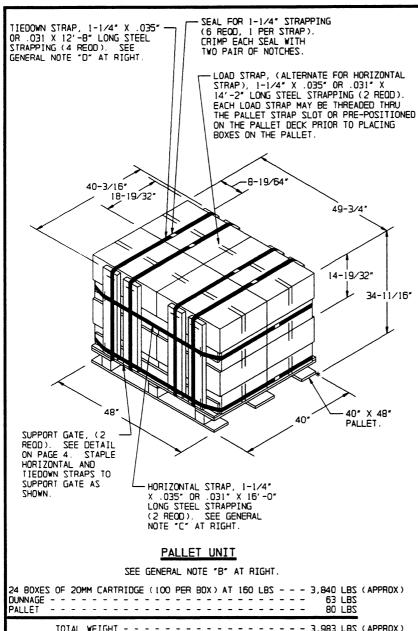
1. CHANGING BOX DIMENSIONS.

REVISION NO. 4, DATED AUGUST 1994, CONSISTS OF:

- CHANGING WEIGHT OF NATIONAL STOCK NUMBERS ON THE "PALLET UNIT DATA" CHART.
- 2. ADDING NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.

REVISION NO. 5, DATED SEPTEMBER 1996, CONSISTS OF:

- 1. CHANGING THE LOAD STRAP CALLOUT ON PAGE 3.
- 2. DELETING GENERAL NOTE RELATING TO STRAP CUTTER AND RE-LETTERING OTHER GENERAL NOTES.



BILL OF MATERIAL				
LUMBER	LINEAR FEET	BOARD FEET		
1" X 4" 2" X 6"	16.58 19.33	5.53 19.33		
NAILS	NO. REOD	ZUNDOS		
6d(2")	48	0.28		
PALLET, 40" X 48" 1 REOD 80 LBS STEEL STRAPPING, 3/4" - 82.67' REOD 12.53 LBS SEAL FOR 3/4" STRAPPING - 6 REOD NIL STAPLE 24 REOD NIL				

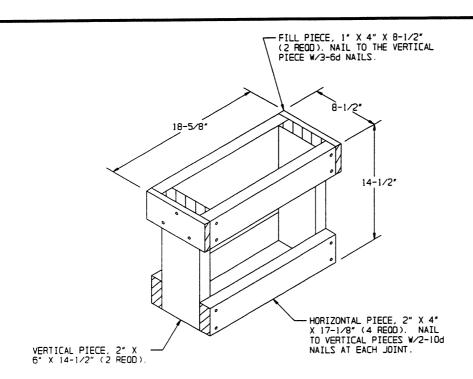
GENERAL NOTES

- 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.
- 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, ALIGNED WITH THE HORIZONTAL PIECE OF THE "SUPPORT GATE". 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 LOCATED AS SHOWN, ALIGNED WITH THE VERTICAL PIECES OF THE "SUPPORT GATE". 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 - - - 19-48-4118-1-2-3-4-14-22PA1002 END OPENING ISO CONTAINER - - - 19-48-4153-15PA1002 MILVAN - - - - 19-48-4166-15PA1003 SIDE OPENING ISO CONTAINER - - - 19-48-4267-15PA1009

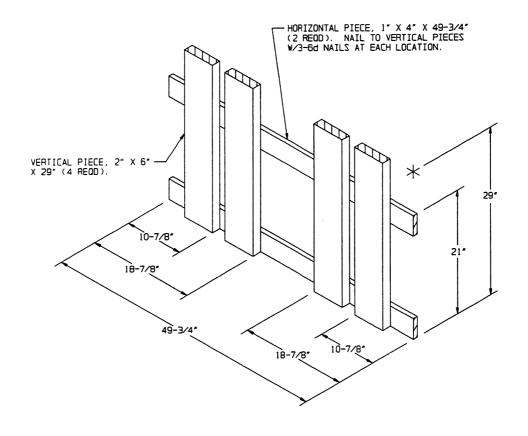
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO
 BE USED FOR UNITIZING 20MM CARTRIDGES WHEN
 IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS
 (NSN) 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 "X" IN THE BASIC PROCEDURES.
- K. REGARDLESS OF THE QUANTITY OF BOXES TO BE PALLETIZED, THE TOTAL WEIGHT OF A FULLY LOADED PALLET UNIT WILL NOT EXCEED 4,000 POUNDS. WHEN THE TOTAL WEIGHT OF A FULLY LOADED PALLET UNIT EXCEEDS 4,000 POUNDS, ONE OR MORE LOADED BOXES MUST BE REMOVED, AND EITHER FILLER ASSEMBLIES, AS DEPICTED ON PAGE 4, OR EMPTY BOXES MUST BE SUBSTITUTED THEREFORE. FOR ADDITIONAL GUIDANCE, SEE THE "PROVISIONS FOR LESS-THAN-FULL-LAYER LOADS" IN THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116—20PA1002.

40.2 CU FT (APPROX)



FILLER ASSEMBLY

(FOR MINUS ONE BOX)



SUPPORT GATE

(2 REQD)