# APPENDIX 107

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

SIGNAL, ILLUMINATION, GROUND, OR SIGNAL, SMOKE, GROUND, PARACHUTE, PACKED 36 PER WOODEN BOX, UNITIZED 36 BOXES PER 40"
X 48" PALLET; APPROX BOX SIZE 14-7/8" L
X 13-3/8" W X 13-1/4" 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.

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U.S. ARMY MATERIEL COMMAND DRAWING DRAFTSMAN D. WHITMORE APPROVED, U.S. COMMAND NLH ENGINEER SANDRA M. SCHULTZ SUPPLY ENGINEERING TRANSPORTATION VALIDATION DIVISION ENGINEERING **ENGINEERING** MIZIVID DIVISION LMT-012MA AMSTA-AR-ESK APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND in FErnst JUNE 1980 CLASS NOIZIVIO DRAWING FILE U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL REVISION NO. 3 MARCH 1996 20PA 4116/ 19 48 107 1002 SEE THE REVISION LISTING ON PAGE 2

DO NOT SCALE

PALLET UNIT DATA								
ITEMS INCLUDED		HAZARD CLASS AND DIVISION		APPROX				
NZN	DODIC	OD CLASS	COMP GROUP	WEIGHT LBS				
1370- 00-182-3408 00-756-2591 00-756-2588 00-629-2336 00-753-1859 00-629-2335 00-301-1132	L305 L306 L307 L311 L312 L314 L323 L324	1	סטטטטטט	2,071 2,071 2,071 2,071 2,071 2,071 2,071 2,071				

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).

# REVISION

REVISION NO. 1, DATED NOVEMBER 1983 CONSISTS OF:

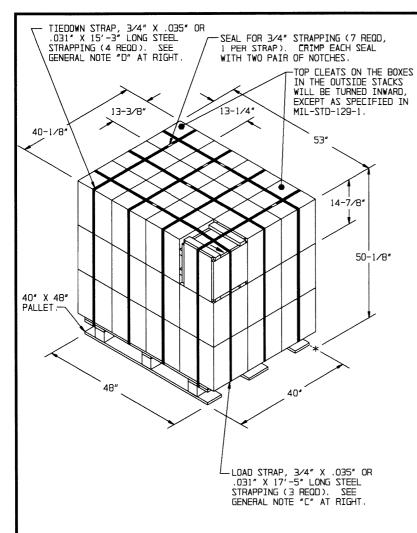
- 1. UPDATING STORAGE DRAWING NUMBER.
- 2. CORRECTING DODIC IN "PALLET UNIT DATA" CHART.

REVISION NO. 2, DATED DECEMBER 1984, CONSISTS OF:

1. CORRECTING DODIC IN "PALLET UNIT DATA" CHART.

REVISION NO. 3, DATED MARCH 1996, CONSISTS OF:

- CHANGING WEIGHT OF ITEM IN "PALLET UNIT DATA" CHART.
- ADDING AND DELETING NUMBER BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.
- 3. ADDING A LAYER OF BOXES.
- 4. DELETING GENERAL NOTE RELATING TO STRAP CUTTER AND RE-LETTERING OTHER GENERAL NOTES.



# PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

36 BOXES OF SI	GNALS (36 PER	BOX ) AT 55	5 LBS	 1,980 LBS (APPROX)
DUNNAGE				11 LBS
PALLET				 BO FBZ

TOTAL WEIGHT - - - - - - - - - - - - - 2,071 LBS (APPROX)
CUBE - - - - - - - - - - - - 61.7 CU FT (APPROX)

### BILL OF MATERIAL

PALLET, 40" X 48" - - - - - 1 REOD - - - - 80 LBS STEEL STRAPPING, 3/4" - 113.25' REOD - - 10.11 LBS SEAL FOR 3/4" STRAPPING - - 7 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.
- 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. THE LOAD STRAPS MUST BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK/STRINGER BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE LOAD 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 - - - 19-48-4158-15PA1002 MILVAN - - - - 19-48-4166-15PA1003 SIDE OPENING ISO

- 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 SIGNALS 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
- J. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-9", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 14'-11". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 35-1/4", A GROSS UNIT WEIGHT OF 1,409 POUNDS, AND A UNIT CUBE OF 43.4 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO INTERMODAL FREIGHT CONTAINER. THE DETERMINATION TO REDUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RESPONSIBLE COMMAND AND WILL BE BASED UPON ECONOMICS OF TRANSPORTATION AND HANDI ING.

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