

APPENDIX 145

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

CARTRIDGE, DELAY, PACKED 2,000 PER WOODEN
BOX, UNITIZED 36 BOXES PER 40" X 48" PALLET;
APPROX BOX SIZE 15⁵/₈" L X 13¹/₂" W X 13¹/₂" H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION [ⓐ]				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1377- 00-958-1048	M308	C	I	1.4	S	2,249

[ⓐ] 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).

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

REVISION

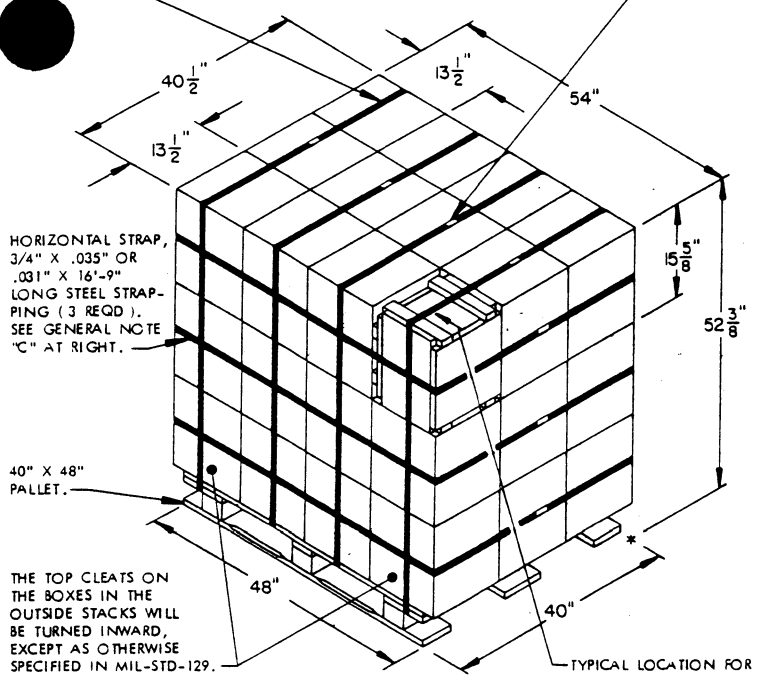
REVISION NO. 1, DATED MARCH 1984, CONSISTS OF:
CHANGING BOX DIMENSIONS AND WEIGHT.

REVISIONS		ORAC TSMAN <i>GR rh</i>	PROJ ENG <i>AKR</i>
1	MAR 84	CHECKER <i>AWM</i>	LOG ENGRG OFFICE <i>W. J. Smith</i>
APPROVED BY ORDER OF COMMANDING GENERAL U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)		APPROVED U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND	
APPROVED BY ORDER OF COMMANDING GENERAL U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)		OR SAR - LEP	
APPROVED BY ORDER OF COMMANDING GENERAL U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)		OR SAR - TMO	
U. S. ARMY DARCOM DRAWING			
JUNE 1983			
CLASS	DIVISION	DRAWING	FILE
19	48	4116/ 145	20PA 1002

DO NOT SCALE

TIEDOWN STRAP, 3/4" X .035" OR .031" X 15'-8" LONG STEEL STRAPPING (4 REQD). SEE GENERAL NOTE "D" AT RIGHT.

SEAL FOR 3/4" STRAPPING (7 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

36 BOXES OF DELAY CARTRIDGES (2,000 PER BOX) @ 60 LBS --- 2,160 LBS (APPROX)
 DUNNAGE ----- 9 LBS
 PALLET ----- 80 LBS

TOTAL WEIGHT ----- 2,249 LBS (APPROX)
 CUBE ----- 66.3 CU FT (APPROX)

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 AND 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. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK/ STRINGER BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE HORIZONTAL STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR OUT-LOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.
 - CARLOADING ----- DRAWING 19-48-4115-5PA1002
 - TRUCKLOADING --- DRAWING 19-48-4117-11PA1003
 - STORAGE ----- DRAWING 19-48-4118-1-2-3-4-14-22PA1002
- F. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.
- G. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- H. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING DELAY CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON THE TITLE PAGE, 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.
- 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 13'-1", AND ONE HORIZONTAL STRAP MUST BE OMITTED. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 36'-3/4". A GROSS UNIT WEIGHT OF 1,527 POUNDS, AND A UNIT CUBE OF 46.5 CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL INTERMODAL FREIGHT CONTAINER, CONVENTIONAL VAN TRAILER OR CONVENTIONAL OR HIGH-CAPACITY BOXCAR. 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 HANDLING.

BILL OF MATERIAL

PALLET, 40" X 48" -----	1 REQD -----	80 LBS
STEEL STRAPPING, 3/4" -----	112.92' REQD -----	8.07 LBS
SEAL FOR 3/4" STRAPPING -----	7 REQD -----	NIL

