

APPENDIX 45E

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

CARTRIDGE, CLEARING, 105MM, PACKED 2 PER PA70
METAL BOX, UNITIZED 28 BOXES PER 40" X 48"
PALLET; APPROX BOX SIZE $11\frac{7}{8}$ " L X $6\frac{1}{8}$ " W X $16\frac{1}{2}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1315- 01-073-9920	—	B	II-B	1.3	C	807

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

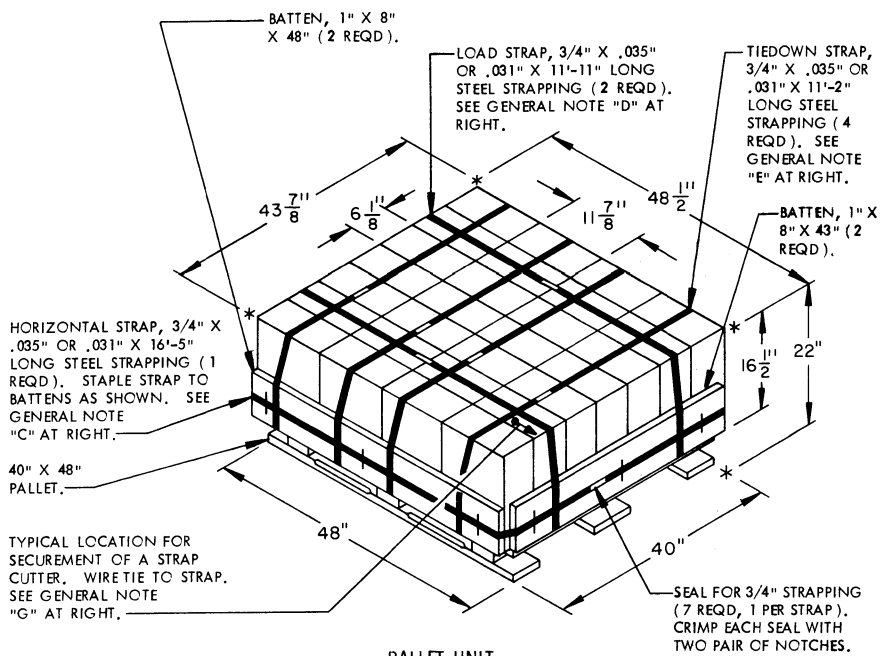
REVISION

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

1. REDESIGNING PALLET UNIT.
2. REDESIGNING FILLER ASSEMBLY.

DO NOT SCALE

REVISIONS				DRAFTSMAN <i>J.D. [initials]</i>	PROJ ENG <i>JRF/-tl</i>
1	NOV 81	<i>[Handwritten]</i>	<i>[Handwritten]</i>	CHECKER <i>[Handwritten]</i>	LOG ENGRG OFFICE <i>[Handwritten]</i>
				APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND	
				APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)	
				U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL	
				U. S. ARMY DARCOM DRAWING	
				JUNE 1980	
				CLASS	DIVISION
				DRAWING	FILE
				19	48
				4116/45E	20 PA 1002



PALLET UNIT

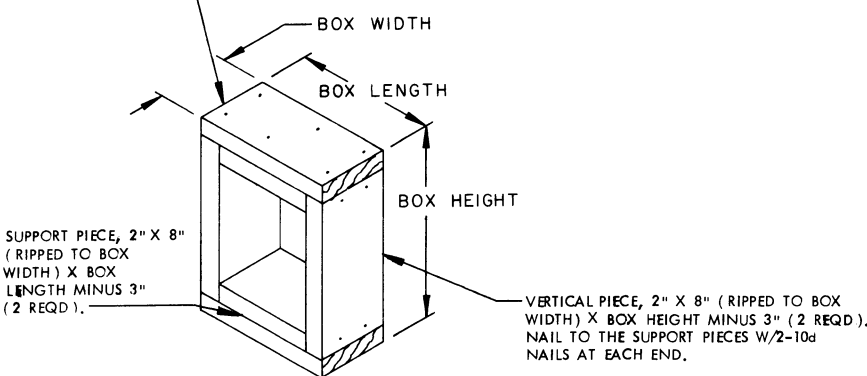
SEE GENERAL NOTE "B" AT RIGHT.

28 BOXES OF 105MM CARTRIDGES (2 PER BOX) @ 25 LBS -----	700 LBS (APPROX)
DUNNAGE -----	27 LBS
PALLET -----	80 LBS

TOTAL WEIGHT -----	807 LBS (APPROX)
CUBE -----	27.1 CU FT (APPROX)

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 8"	15.17	10.11
PALLET, 40" X 48" -----1 REQD -----80 LBS		
STEEL STRAPPING, 3/4" -----84.92' REQD -----6.07 LBS		
SEAL FOR 3/4" STRAPPING -----7 REQD -----NIL		
STAPLE -----12 REQD -----NIL		

LONGITUDINAL PIECE, 2" X 8" (RIPPED TO BOX WIDTH) X BOX LENGTH (2 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH END AND TO THE SUPPORT PIECE W/2-10d NAILS.



FILLER ASSEMBLY

(FOR MINUS ONE BOX)

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 THE HORIZONTAL STRAP TO ENCIRCLE THE LAYER OF BOXES ON THE PALLET AS SHOWN. HORIZONTAL STRAP MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF LOAD AND TIEDOWN STRAPS.
- D. THE LOAD STRAPS WILL BE THREADED THROUGH THE STRAP SLOTS OF THE PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- E. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK 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.
- F. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR OUTLOADING 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
- G. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.
- H. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- J. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 105MM 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.
- K. IF THERE IS A NEED TO USE FILLER ASSEMBLIES AND AT LEAST TWO PALLET UNITS ARE BEING CONSTRUCTED, NOT MORE THAN TEN FILLERS WILL BE INSTALLED IN ANY ONE PALLET UNIT. USING TWO PALLET UNITS TO SATISFY THE PALLETIZATION CRITERIA APPLICABLE TO LESS-THAN-FULL PALLET UNITS IS AN EXCEPTION TO THE BASIC PROCEDURES. HOWEVER, THE EXCEPTION IS NECESSARY FOR THE AMMUNITION PACK COVERED BY THIS APPENDIX, TO MOST EFFECTIVELY GET AN ACCEPTABLE, COMPACT AND SOUND PALLET UNIT.