

APPENDIX 38

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

CARTRIDGE, 120MM, PACKED 1 PER PLYWOOD BOX,
UNITIZED 20 BOXES PER 35" X 45 $\frac{1}{2}$ " PALLET; APPROX
BOX SIZE 45 $\frac{5}{8}$ " L X 9 $\frac{1}{8}$ " W X 10 $\frac{1}{4}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ^①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1315- 01-165-6487	C784	B	IV	1,3	C	1,853
01-165-6488	C785	B	IV	1,3	C	1,633
01-169-8749	C783	B	II-B	08 (1,2)	C	1,633

REVISION

REVISION NO. 6, DATED DECEMBER 1986, CONSISTS OF:

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

REVISION NO. 7, DATED JULY 1988, CONSISTS OF:

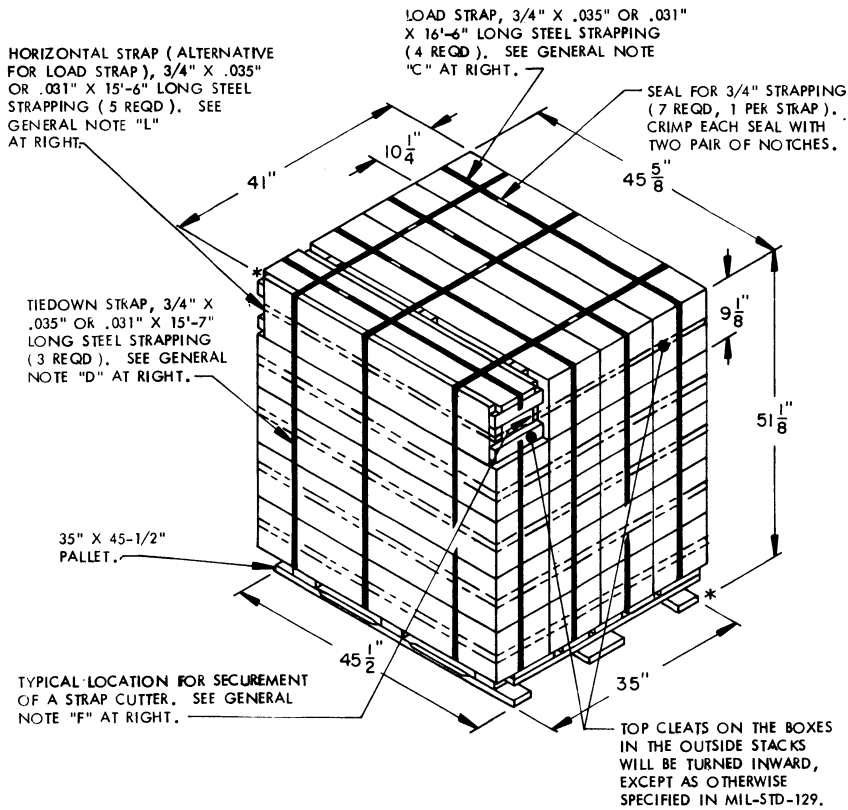
1. ADDING GENERAL NOTE "M".
2. CHANGING HAZARD CLASSIFICATION ON
"PALLET UNIT DATA" CHART.

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

① 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).

DO NOT SCALE

REVISIONS				DRAFTSMAN <i>B.R. Post</i>	PROJ ENG <i>WRE/low</i>	DATE <i>7/21/88</i>
6	DEC 86	WRF <i>WRF</i>	<i>WRF</i>	CHKR <i>SNM</i>	LOG ENGR OFFICE <i>Shuttle</i>	APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND <i>KB</i>
7	JUL 88	WRF <i>WRF</i>	<i>WRF</i>	CHKR <i>WRF</i>	LOG ENGR OFFICE <i>Shuttle</i>	APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY, MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM) <i>WRF</i> U. S. ARMY DEFENSE ACQUISITION CENTER AND SCHOOL <i>WRF</i>
U. S. ARMY DARCOM DRAWING						
APRIL 1982						
CLASS	DIVISION	DRAWING	FILE			
19	48	4116/ 38	20PA 1002			



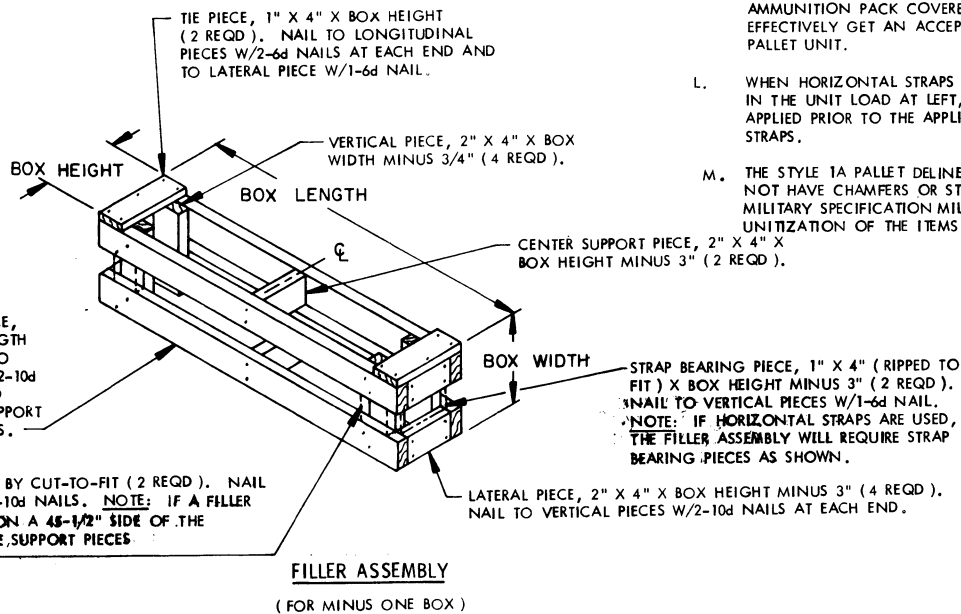
PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

20 BOXES OF 120MM CARTRIDGE (1 PER BOX) @ 89 LBS	1,780 LBS (APPROX)
DUNNAGE	8 LBS
PALLET	65 LBS
TOTAL WEIGHT	1,853 LBS (APPROX)
CUBE	55.4 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2"	1 REQD	65 LBS
STEEL STRAPPING, 3/4"	112.08 REQD	8,01 LBS
SEAL FOR 3/4" STRAPPING	7 REQD	NIL



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. LOAD STRAPS MUST BE PREPOSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. LOAD STRAPS WILL BE TENSIONED AND SEALED PRIOR TO 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. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING AMC (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.
- 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 120MM 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 14'-0", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 14'-10". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 42", A GROSS UNIT WEIGHT OF 1,497 POUNDS, AND A UNIT CUBE OF 45.5" CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL INTER-MODAL 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 HANDLING.
- K. THE 41" LENGTH DIMENSION FOR THE UNIT LOAD DEPICTED AT LEFT IS AN EXCEPTION TO THE BASIC PROCEDURES. HOWEVER, THIS EXCEPTION IS NECESSARY FOR THE AMMUNITION PACK COVERED IN THIS APPENDIX TO MOST EFFECTIVELY GET AN ACCEPTABLE, COMPACT AND SOUND PALLET UNIT.
- L. WHEN HORIZONTAL STRAPS ARE USED IN LIEU OF LOAD STRAPS IN THE UNIT LOAD AT LEFT, THE TIEDOWN STRAPS MAY BE APPLIED PRIOR TO THE APPLICATION OF THE HORIZONTAL STRAPS.
- M. THE STYLE 1A 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 THE ITEMS COVERED BY THIS APPENDIX.