

APPENDIX 151B

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

CARTRIDGE, IMPULSE, PACKED 240 PER WOODEN BOX,
UNITIZED 48 BOXES PER 35" X 45½" PALLET; APPROX
BOX SIZE 9⅝" L X 10⅜" W X 15⅜" H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1377- 01-037-8651	MY74					649

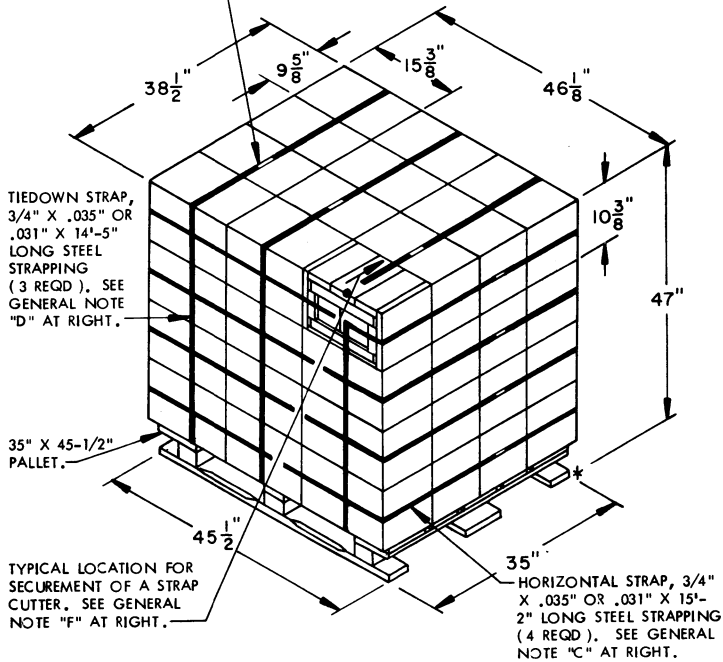
NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE
USED IN CONJUNCTION WITH UNITIZATION PROCEDURES
DRAWING 19-48-4116-20PA1002.

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	PROJ ENG
				lb	WRE
				CHECKER	LOG ENGRG OFFICE
				GPE	W. H. Smith
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND					
				NB Martin	B. J. Johnson
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIALS COMMAND (AMC)					
William F. Ernst					
U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL					
U.S. ARMY AMC DRAWING					
APRIL 1985					
CLASS	DIVISION	DRAWING	FILE		
19	48	4116/ 151B	20PA 1002		

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.

48 BOXES OF IMPULSE CARTRIDGES (240 PER BOX)	@ 12 LBS	-----	576 LBS (APPROX)
DUNNAGE		-----	8 LBS
PALLET		-----	65 LBS
TOTAL WEIGHT			----- 649 LBS (APPROX)
CUBE			----- 48.3 CU FT (APPROX)

BILL OF MATERIAL

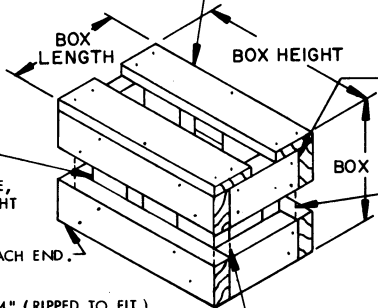
PALLET	-----	1 REQD	-----	65 LBS
STEEL STRAPPING, 3/4"	-----	103.92' REQD	-----	7.42 LBS
SEAL FOR 3/4" STRAPPING	-----	7 REQD	-----	NIL

TIE PIECE, 1" X 4" X BOX HEIGHT
(2 REQD). NAIL TO LATERAL
PIECES W/1-6d NAIL AT EACH END
AND TO LONGITUDINAL PIECE W/3-6d NAILS.

VERTICAL PIECE,
2" X 4" X BOX
WIDTH MINUS
3/4" (4 REQD).

LONGITUDINAL PIECE,
2" X 4" X BOX HEIGHT
(4 REQD). NAIL TO
THE VERTICAL PIECES
W/2-10d NAILS AT EACH END.

SUPPORT PIECE 2" X 4" (RIPPED TO FIT)
BY BOX HEIGHT (1 REQD). NAIL TO THE
VERTICAL PIECES W/2-10d NAILS AT EACH END.
NOTE: THE FILLER ASSEMBLY OR ASSEMBLIES
LOCATED ON AN OUTER STACK ON THE 45-1/2"
SIDE OR SIDES OF THE PALLET WILL REQUIRE SUPPORT
PIECE AS SHOWN.



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 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 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 AMC (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 IMPULSE 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. 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.
- K. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, (1) LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-9" AND (1) HORIZONTAL STRAP WILL BE OMITTED. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 36'-5/8", A GROSS UNIT WEIGHT OF 503 LBS AND A UNIT CUBE OF 37.6 CU FT. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL CONTAINER 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.