

APPENDIX 5C

UNITIZATION PROCEDURES FOR BOXED WHITE PHOSPHORUS (WP) AND PLASTICIZED WHITE PHOS- PHORUS (PWP) LOADED AMMUNI- TION ON 4-WAY ENTRY PALLETS

**CARTRIDGE, 81MM, PACKED 3 PER WOODEN BOX,
UNITIZED 24 BOXES PER 42" X 53" PALLET;
APPROX BOX SIZE 26-3/16" L X 13-13/16" W X 6-
21/32" H**

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004.

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U.S. ARMY MATERIEL COMMAND DRAWING

<p>APPROVED, U.S. ARMY FIELD SUPPORT COMMAND <i>T.P.R.</i> <i>David A. Piskounk</i> AMSRS-AAR-AIL-TP</p>	<p>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p>			
<p><i>David A. Piskounk</i> AMSFS-ST</p>	DO NOT SCALE		FEBRUARY 1983	
	ENGINEER OR TECHNICIAN	BASIC REV.	WILLIAM R. FRERICHS MARK GRACE	
<p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p><i>[Signature]</i></p> <p>U.S. ARMY DEFENSE AMMUNITION CENTER</p>	TRANSPORTATION ENGINEERING DIVISION	<i>Aurora A. Juffer</i>		<p>REVISION NO. 3</p> <p>MAY 2005</p>
	VALIDATION ENGINEERING DIVISION	TESTED	SEE THE REVISION LISTING ON PAGE 2	
	ENGINEERING DIRECTORATE		CLASS	DIVISION
			19	48
			4015/ 5C	20PA1004

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1315-				
00-241-9275	C276	1. 2. 2	H	1, 338
00-444-0132	C276	1. 2. 1	H	1, 338
00-498-6406	C276	1. 3	H	1, 338
00-935-1926	C276	1. 2. 1	H	1, 338
00-935-6068	C276	1. 2. 1	H	1, 338
00-935-6075	C276	1. 2. 1	H	1, 338
00-935-6076	C276	1. 2. 1	H	1, 338
01-139-6770	C276	1. 2. 1	H	1, 338

*HAZARD AND 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).

REVISIONS

REVISION NO. 1, DATED JUNE 1985, CONSISTS OF:

1. DELETING ITEM FROM "PALLET UNIT DATA" CHART.
2. ADDING HAZARD CLASSIFICATION NOTE.

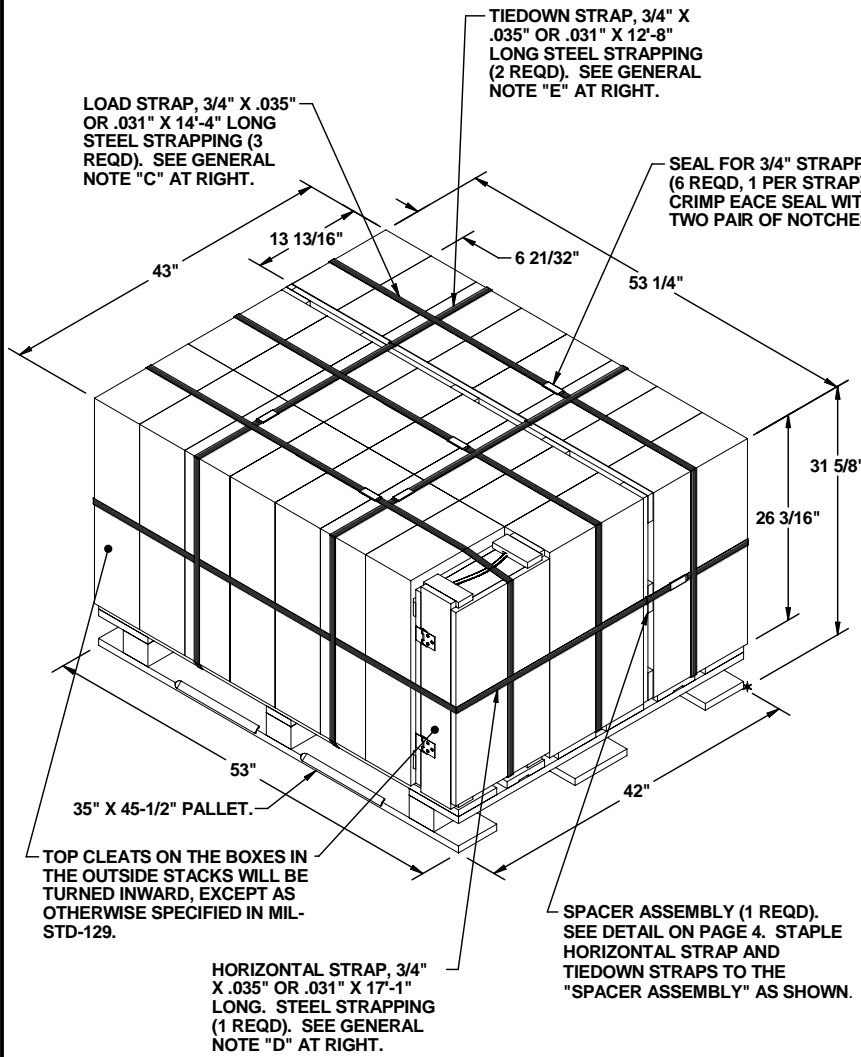
REVISION NO. 2, DATED FEBRUARY 1987, CONSISTS OF:

UPDATING "PALLET UNIT DATA" CHART.

REVISION NO. 3, DATED MAY 2005, CONSISTS OF:

1. REMOVING DOT CLASS AND CG CLASS COLUMNS FROM "PALLET UNIT DATA" CHART.
2. DELETING NSN 1315-00-935-6003 FROM "PALLET UNIT DATA" CHART.
3. UPDATING "PALLET UNIT DATA" QD CLASS COLUMN.
4. REMOVING STRAP CUTTER FROM VIEW AND STRAP CUTTER NOTE.

GENERAL NOTES



- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004. 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 MAY BE THREADED THROUGH THE STRAP SLOTS OF A PALLET OR PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING THE BOXES ON THE PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL THE HORIZONTAL STRAP TO ENCIRCLE THE LAYER OF BOXES ON THE PALLET. HORIZONTAL STRAP MUST BE TENSIONED AND SEALED PRIOR TO THE 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 HORIZONTAL STRAP HAS BEEN TENSIONED AND SEALED.
- F. 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 - - - - 19-48-4153-15PA1002
 - MILVAN - - - - 19-48-4166-15PA1003
 - SIDE OPENING ISO CONTAINER - - - - 19-48-4267-15PA1009
- G. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- H. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 81MM CARTRIDGES 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.
- J. IF THERE IS NEED FOR FILLER ASSEMBLIES AND AT LEAST TWO PALLET UNITS ARE BEING CONSTRUCTED, NOT MORE THAN 20 FILLERS WILL BE INSTALLED IN ANY ONE PALLET UNIT. ADDITIONAL FILLERS CAN BE PUT IN A SECOND PALLET UNIT AS REQUIRED WHEN THE QUANTITY OF 20 FILLERS IN THE FIRST REDUCED PALLET UNIT IS INSUFFICIENT TO SATISFY THE TOTAL REDUCTION NEEDED. 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.
- K. FOR DETAILS OF MIL-B-2427 WOODEN BOX SEE ARDEC DRAWING 9230176.

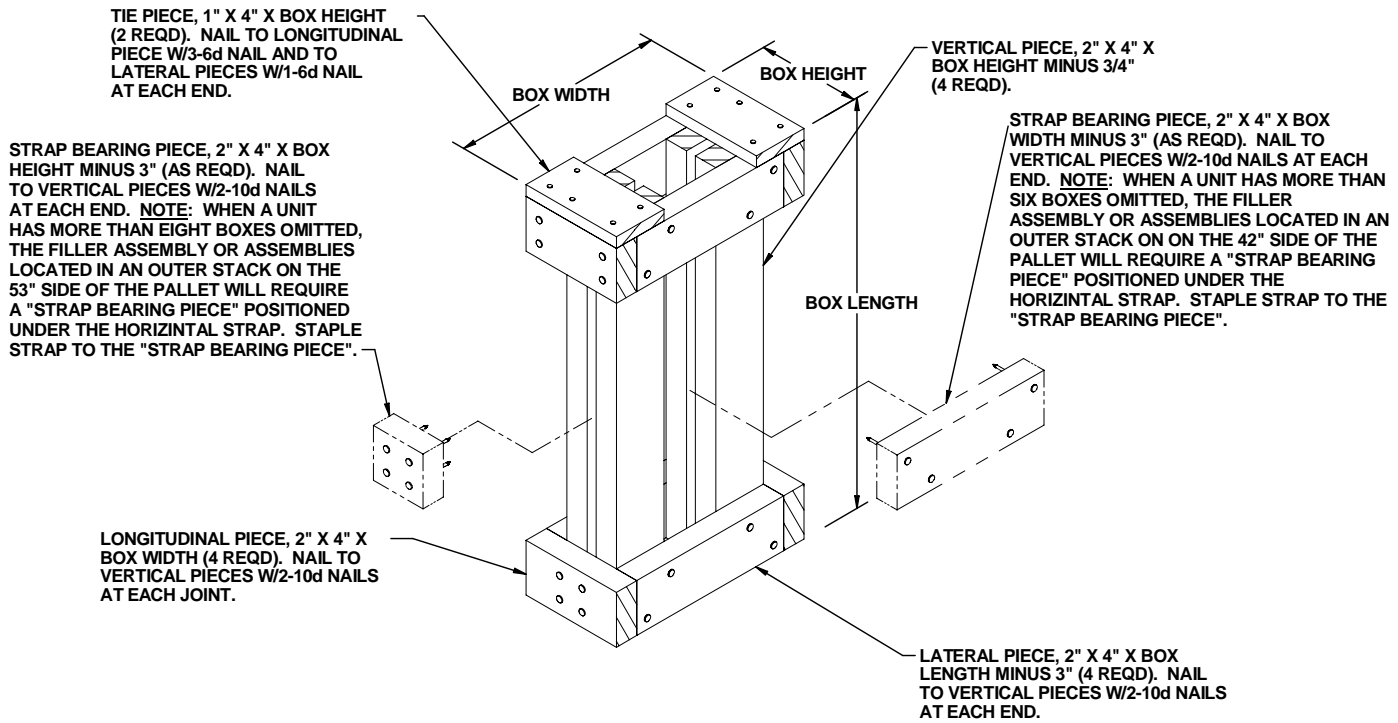
PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

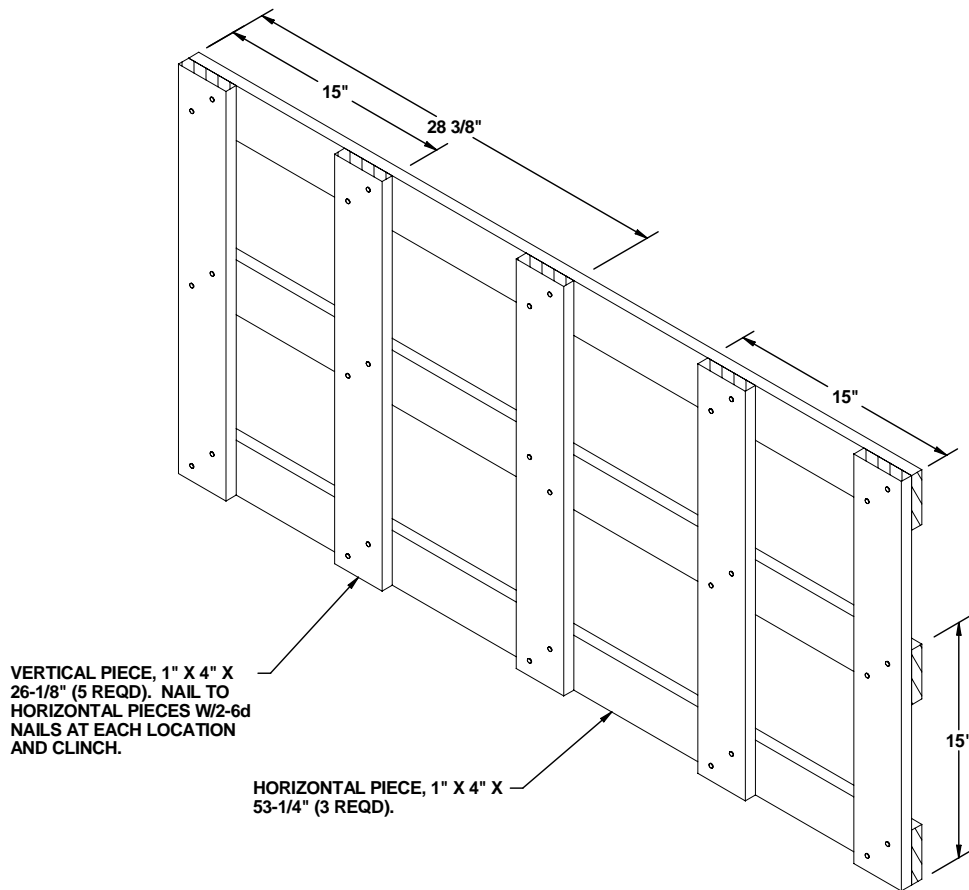
24 BOXES OF 81MM CARTRIDGE (3 PER BOX) @ 51 LBS - - - -	1,224 LBS (APPROX)
DUNNAGE - - - - -	24 LBS
PALLET - - - - -	90 LBS
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TOTAL WEIGHT - - - - -	1,338 LBS (APPROX)
CUBE - - - - -	42.1 CU FT (APPROX)

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	24.19	8.06
NAI LS	NO. REQD	POUNDS
6d (2")	30	0.18
PALLET, 42" X 53" - - - - -	1 REQD - - - - -	90 LBS
STEEL STRAPPING, 3/4" - 85.42' REQD - - - - -		7.63 LBS
SEAL FOR 3/4" STRAPPING - - - - -	6 REQD - - - - -	NIL
STAPLE, 15/16" X 3/4" - - - - -	4 REQD - - - - -	NIL



FILLER ASSEMBLY
(FOR MINUS ONE BOX)



SPACER ASSEMBLY
(ONE REQD)