

APPENDIX 2B

UNITIZATION PROCEDURES FOR BOXED WHITE PHOSPHORUS (WP) AND PLASTICIZED WHITE PHOSPHORUS (PWP) LOADED AMMUNITION ON 4-WAY ENTRY PALLETS

CARTRIDGE, 60MM, PACKED 9 PER WOODEN BOX,
UNITIZED 32 BOXES PER 40" X 48" PALLET;
APPROX BOX SIZE 17-3/8" X 10-11/16" W X
11-9/16" 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																			
APPROVED, U. S. ARMY INDUSTRIAL OPERATIONS COMMAND <i>David A. Fickert</i> AMSTA-AR-ESK	DRAFTSMAN ENGINEER BETTY J. KUNDERT SANDRA M. SCHULTZ																		
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL COMMAND <i>Arthur J. Podziadlo</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SUPPLY ENGINEERING DIVISION <i>J. J. Michel</i></td> <td style="width: 33%;">TRANSPORTATION ENGINEERING DIVISION <i>W. J. Jurek</i></td> <td style="width: 33%;">VALIDATION ENGINEERING DIVISION <i>J. K. Kester</i></td> </tr> <tr> <td colspan="3" style="text-align: center;">LOGISTICS ENGINEERING OFFICE <i>William J. Ernst</i></td> </tr> <tr> <td colspan="4" style="text-align: center;">FEBRUARY 1983</td> </tr> <tr> <td style="text-align: center;">CLASS</td> <td style="text-align: center;">DIVISION</td> <td style="text-align: center;">DRAWING</td> <td style="text-align: center;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4015/ 2B</td> <td style="text-align: center;">20PA 1004</td> </tr> </table>	SUPPLY ENGINEERING DIVISION <i>J. J. Michel</i>	TRANSPORTATION ENGINEERING DIVISION <i>W. J. Jurek</i>	VALIDATION ENGINEERING DIVISION <i>J. K. Kester</i>	LOGISTICS ENGINEERING OFFICE <i>William J. Ernst</i>			FEBRUARY 1983				CLASS	DIVISION	DRAWING	FILE	19	48	4015/ 2B	20PA 1004
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U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL REVISION NO. 1 MARCH 1996 SEE THE REVISION LISTING ON PAGE 2																			

DO NOT SCALE

PALLET UNIT DATA				
ITEMS INCLUDED		HAZARD CLASS AND DIVISION ●		APPROX WEIGHT LBS
NSN	DODIC	OD CLASS	COMP GROUP	
1310-				
00-926-3951	B630	(12)1.2	H	2,247
00-935-6189	B630	(12)1.2	H	2,247
00-935-9129	B630	(12)1.2	H	2,247
01-240-9252	B630	(12)1.2	H	2,247

● 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).

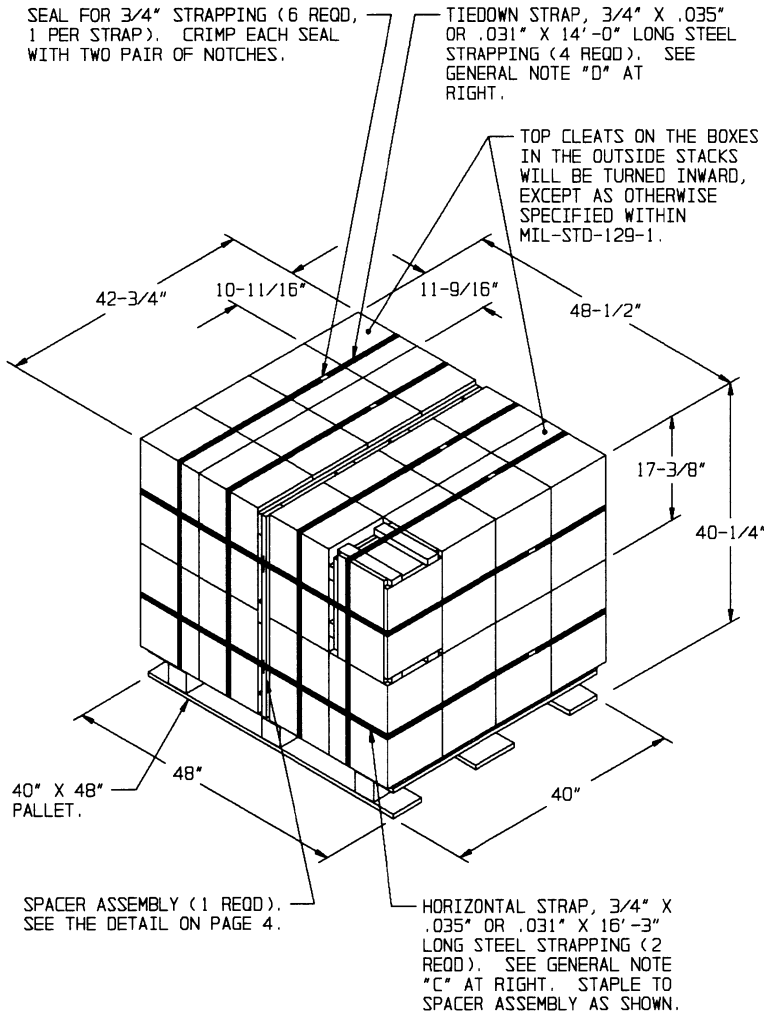
REVISION

REVISION NO. 1, DATED MARCH 1996, CONSISTS OF:

1. CHANGING THE WEIGHT OF CONTAINER.
2. ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.
3. DELETING GENERAL NOTE RELATING TO STRAP CUTTER AND RE-LETTERING OTHER GENERAL NOTES.

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. INSTALL EACH HORIZONTAL STRAP TO ENCIRCLE A LAYER OF BOXES ON THE PALLET. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE 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 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
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 60MM 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 THAT WHAT IS SHOWN.
- H. THE STYLE 1 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 ITEMS COVERED BY THIS APPENDIX.
- J. FOR DETAILS OF THE WOODEN BOX SEE DRAWING 9215577.
- K. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "Z" IN THE BASIC PROCEDURES.
- L. DIMENSIONS OF THE SPACER ASSEMBLIES ARE APPROXIMATE AND MUST BE VERIFIED IN ACCORDANCE WITH GENERAL NOTE "W" IN THE BASIC PROCEDURES. THESE ASSEMBLIES MUST NOT PROTRUDE PAST THE TOPS AND/OR SIDES OF THE CONTAINERS.



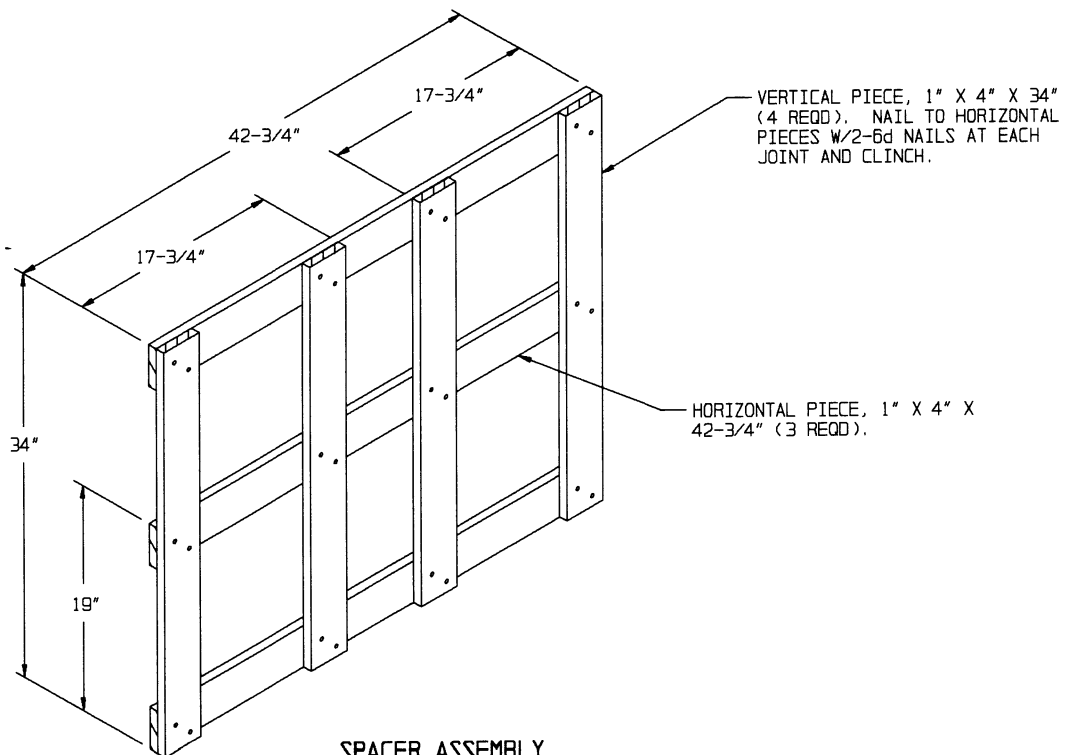
PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

32 BOXES OF 60MM CARTRIDGES (9 PER BOX) AT 67 LBS	-----	2,144 LBS (APPROX)
DUNNAGE	-----	23 LBS
PALLET	-----	80 LBS
TOTAL WEIGHT	-----	2,247 LBS (APPROX)
CUBE	-----	48.3 CU FT (APPROX)

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	22.02	7.34
NAILS	NO. REQD	POUNDS
6d (2")	24	0.14
PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 3/4"	88.50' REQD	7.90 LBS
SEAL FOR 3/4" STRAPPING	6 REQD	NIL
STAPLE, 15/16" X 3/4"	4 REQD	NIL

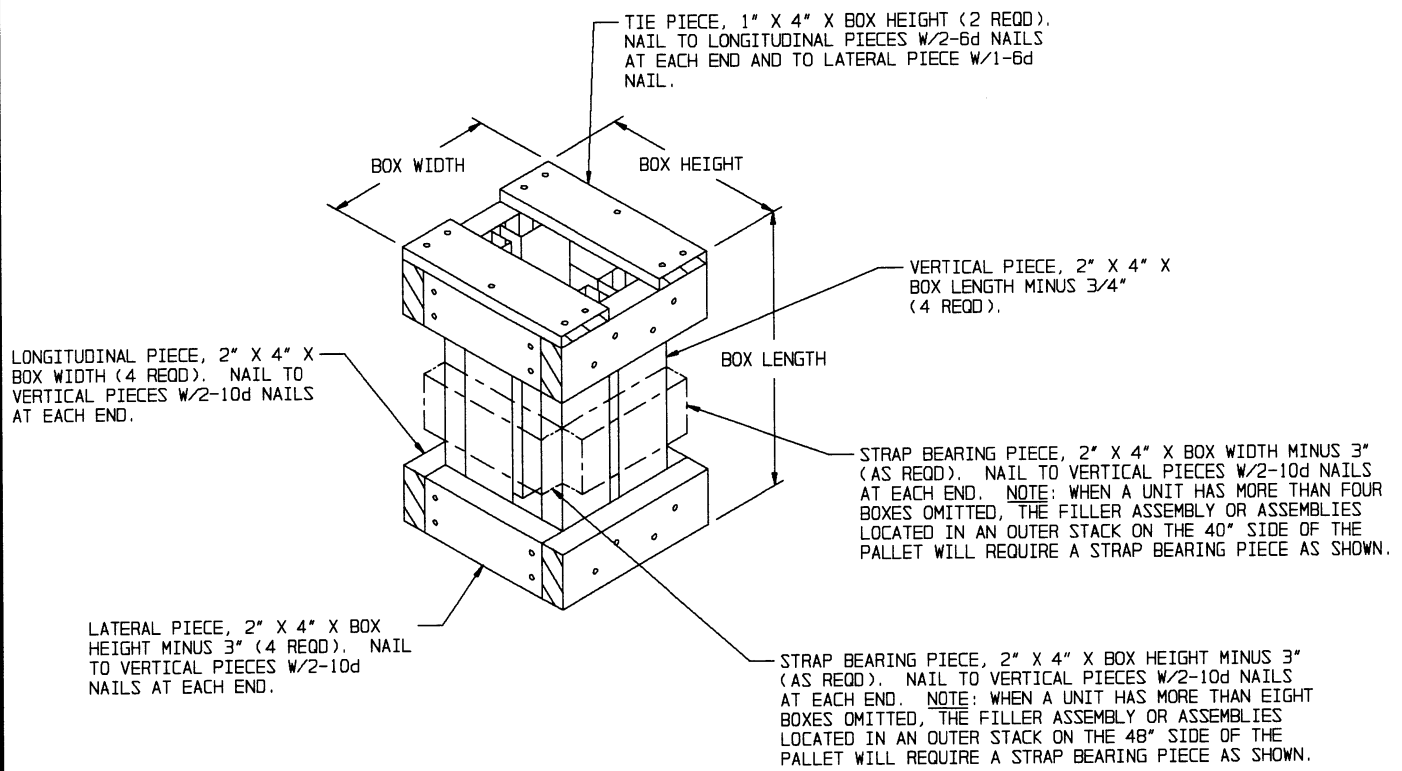


VERTICAL PIECE, 1" X 4" X 34"
(4 REQD). NAIL TO HORIZONTAL
PIECES W/2-6d NAILS AT EACH
JOINT AND CLINCH.

HORIZONTAL PIECE, 1" X 4" X
42-3/4" (3 REQD).

SPACER ASSEMBLY

(ONE REQD)



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

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

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

STRAP BEARING PIECE, 2" X 4" X BOX WIDTH MINUS 3"
(AS REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS
AT EACH END. NOTE: WHEN A UNIT HAS MORE THAN FOUR
BOXES OMITTED, THE FILLER ASSEMBLY OR ASSEMBLIES
LOCATED IN AN OUTER STACK ON THE 40" SIDE OF THE
PALLET WILL REQUIRE A STRAP BEARING PIECE AS SHOWN.

LATERAL PIECE, 2" X 4" X BOX
HEIGHT MINUS 3" (4 REQD). NAIL
TO VERTICAL PIECES W/2-10d
NAILS AT EACH END.

STRAP BEARING PIECE, 2" X 4" X BOX HEIGHT MINUS 3"
(AS REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS
AT EACH END. NOTE: WHEN A UNIT HAS MORE THAN EIGHT
BOXES OMITTED, THE FILLER ASSEMBLY OR ASSEMBLIES
LOCATED IN AN OUTER STACK ON THE 48" SIDE OF THE
PALLET WILL REQUIRE A STRAP BEARING PIECE AS SHOWN.

FILLER ASSEMBLY

(FOR MINUS ONE BOX)