

APPENDIX 43D

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

**CARTRIDGE, 81MM, PACKED 3 PER WIREBOUND
BOX, UNITIZED 36 BOXES PER 40" X 48" PALLET;
APPROX BOX SIZE 25-1/8" L X 13-3/8" W X 5-5/16" H**

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

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U.S. ARMY MATERIEL COMMAND DRAWING

<p style="text-align: center;">APPROVED, U.S. ARMY FIELD SUPPORT COMMAND <i>TPR</i> <i>David C. Rishonik</i> AMSRD-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 style="text-align: center;"><i>Robert C. ...</i> SFSJM-LIT</p>	<p>DO NOT SCALE</p>		<p>JUNE 1980</p>																		
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<p style="text-align: center;">APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>[Signature]</i> U.S. ARMY DEFENSE AMMUNITION CENTER</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">TRANSPORTATION ENGINEERING DIVISION</td> <td style="width: 50%;"><i>[Signature]</i></td> </tr> <tr> <td>VALIDATION ENGINEERING DIVISION</td> <td><i>[Signature]</i></td> </tr> <tr> <td>ENGINEERING DIRECTORATE</td> <td><i>[Signature]</i></td> </tr> </table>	TRANSPORTATION ENGINEERING DIVISION	<i>[Signature]</i>	VALIDATION ENGINEERING DIVISION	<i>[Signature]</i>	ENGINEERING DIRECTORATE	<i>[Signature]</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">TESTED</td> <td style="width: 80%;"><i>[Signature]</i></td> </tr> </table>	TESTED	<i>[Signature]</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SEE THE REVISION LISTING ON PAGE 2</td> </tr> <tr> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">CLASS</td> <td style="width: 25%;">DIVISION</td> <td style="width: 25%;">DRAWING</td> <td style="width: 25%;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 43D</td> <td style="text-align: center;">20PA1002</td> </tr> </table> </td> </tr> </table>	SEE THE REVISION LISTING ON PAGE 2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">CLASS</td> <td style="width: 25%;">DIVISION</td> <td style="width: 25%;">DRAWING</td> <td style="width: 25%;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 43D</td> <td style="text-align: center;">20PA1002</td> </tr> </table>	CLASS	DIVISION	DRAWING	FILE	19	48	4116/ 43D	20PA1002
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PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1315-00-563-7067 01-352-0392	C256	1.2.1	E	1,757
	C875	1.2.2	C	1,865

*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 SEPTEMBER 1980, CONSISTS OF:

1. ADDING 16 MORE BOXES TO PALLET UNIT.
2. CHANGING BOX DIMENSIONS.
3. CHANGING UNITIZATION PROCEDURES TO CONFORM TO 1 AND 2 ABOVE.

REVISION NO. 2, DATED SEPTEMBER 1995, CONSISTS OF:

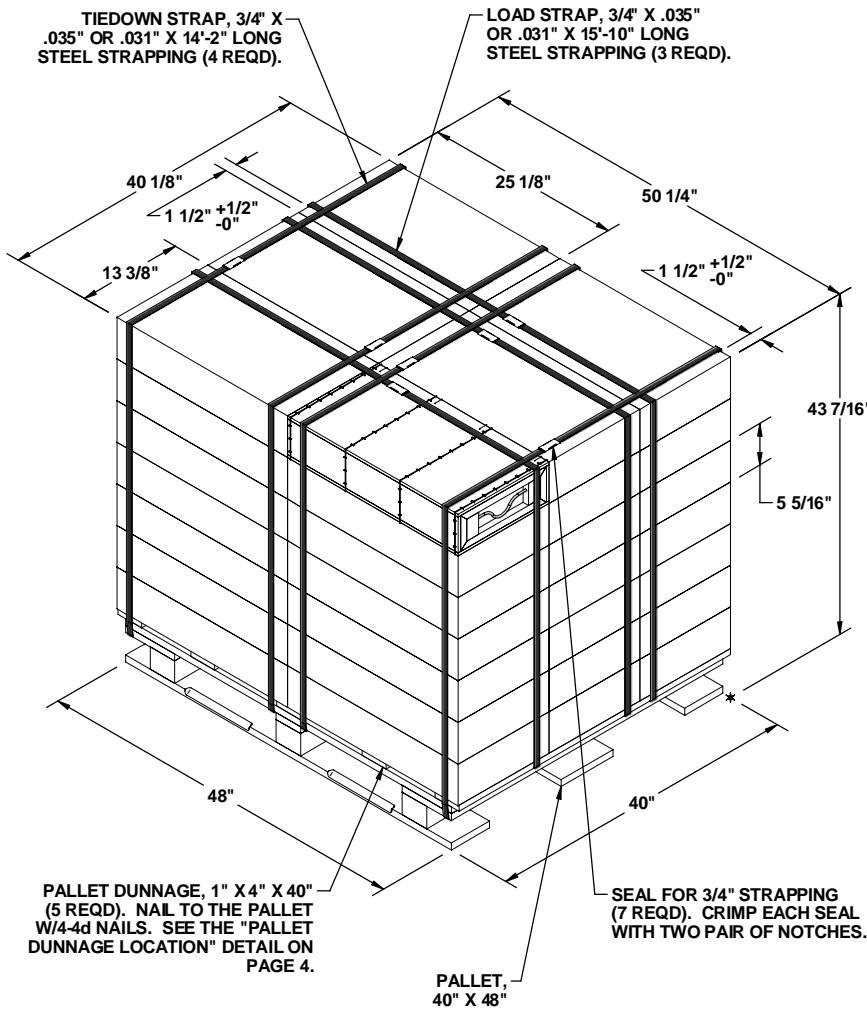
ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.

REVISION NO. 3, DATED APRIL 2006, CONSISTS OF:

1. REMOVING ITEM BY NATIONAL STOCK NUMBER FROM "PALLET UNIT DATA" CHART.
2. UPDATING "PALLET UNIT DATA" CHART.
3. DELETING GENERAL NOTE REFERRING TO STRAP CUTTER.
4. UPDATED PALLET UNIT AND DUNNAGE WEIGHT.

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. THE LOAD STRAPS MUST BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. NOTE THAT THE LOAD STRAPS WILL BE LOCATED AS SHOWN. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK/STRINGER 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 DRAWINGS ARE APPLICABLE FOR UNLOADING 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 REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- G. 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.
- 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. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES.
- K. FOR DETAILS OF THE MIL-B-46506 WIREBOUND BOX SEE DRAWING 12630597.



PALLET UNIT

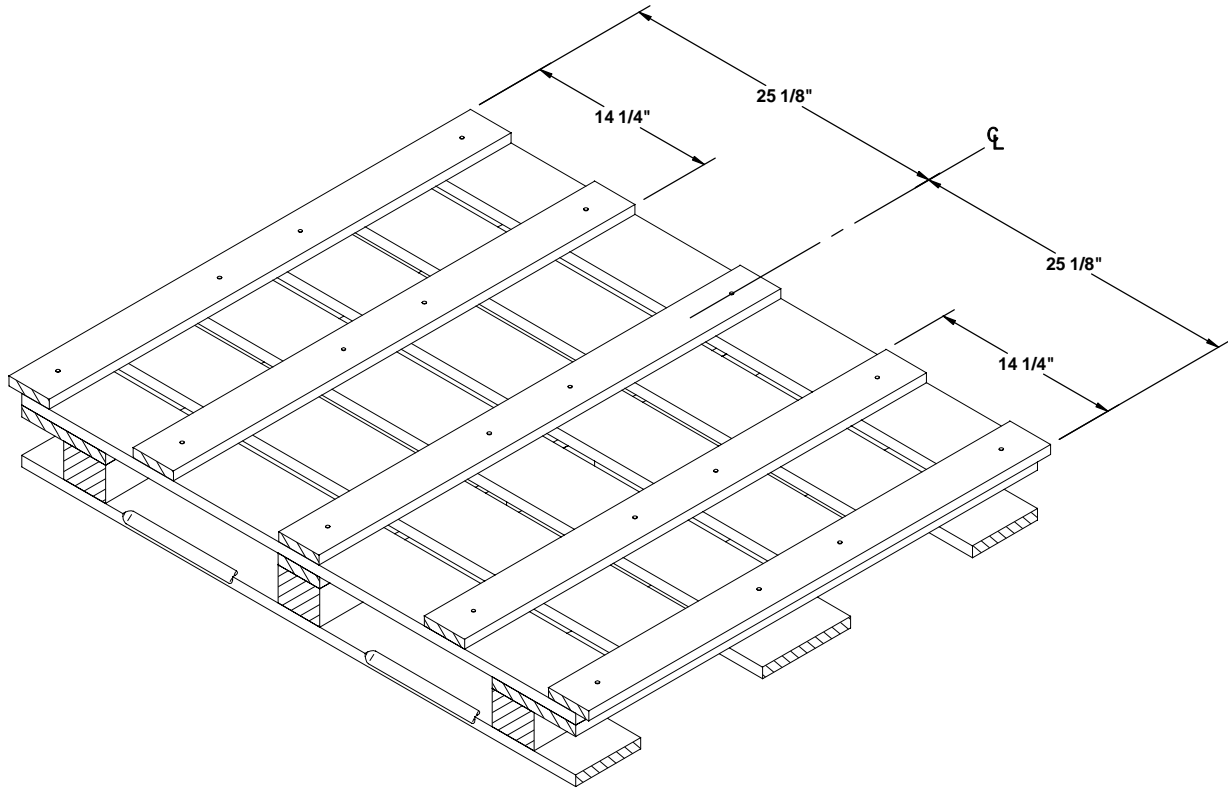
SEE GENERAL NOTE "B" AT RIGHT.

36 BOXES OF 81MM CTG (3 PER WIREBOUND BOX) @ 49 LBS	- -	1,764 LBS
DUNNAGE	- - - -	21 LBS
PALLET	- - - -	80 LBS

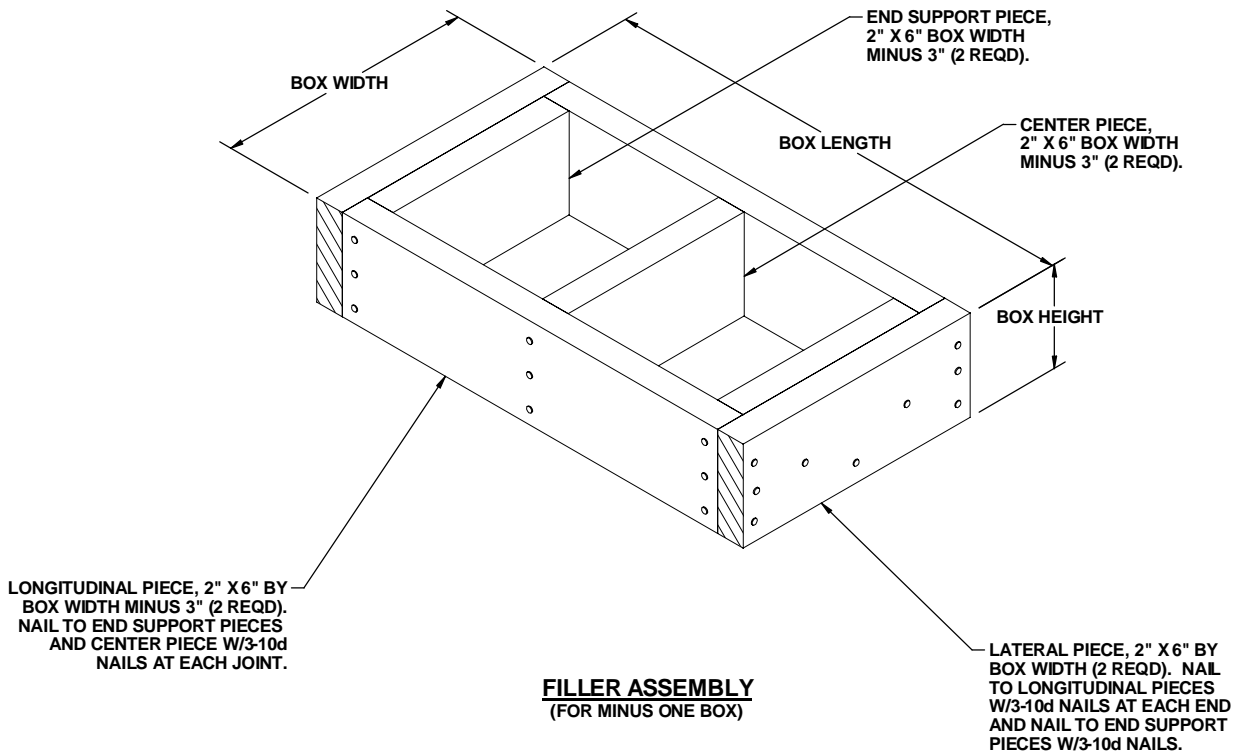
TOTAL WEIGHT	- - - - -	1,865 LBS (APPROX)
CUBE	- - - - -	50.7 CU FT (APPROX)

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	16.67	5.56
NAI LS	NO. REQD	POUNDS
4d (1-1/2")	20	0.07
PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 3/4"	104.2' REQD	9.30 LBS
SEAL FOR 3/4" STRAPPING	7 REQD	NIL



PALLET DUNNAGE LOCATION



FILLER ASSEMBLY
(FOR MINUS ONE BOX)