

# APPENDIX 7C

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

**CARTRIDGE, 7.62MM, PACKED VARIOUS  
QUANTITIES IN M2 SERIES METAL CONTAINERS,  
2 PER WIREBOUND BOX, UNITIZED 48 BOXES  
PER 40" x 48" PALLET; APPROX BOX SIZE  
14-1/2" L X 12-3/4" W X 8-3/8" H**

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

**DISTRIBUTION STATEMENT A:**

**APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.**

### U.S. ARMY MATERIEL COMMAND DRAWING

<p style="font-size: small;">APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND</p> <p style="font-size: x-small;">AMSTA-AR-WEP-RP</p> <p style="font-size: x-small;">APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p style="font-size: x-small;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	<p style="text-align: center;"><b>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL/DET THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>DO NOT SCALE</b></td> <td colspan="2" style="text-align: center;"><b>AUGUST 1983</b></td> </tr> <tr> <td style="font-size: x-small;">ENGINEER OR TECHNICIAN</td> <td style="font-size: x-small;">BASIC REV.</td> <td style="text-align: center;">GEORGE FECKE RANDIE UNSER</td> <td style="text-align: center;">REVISION NO. 1 JUNE 2002</td> </tr> <tr> <td colspan="2" style="font-size: x-small;">TRANSPORTATION ENGINEERING DIVISION</td> <td colspan="2" style="text-align: center;">SEE THE REVISION LISTING ON PAGE 2</td> </tr> <tr> <td style="font-size: x-small;">VALIDATION ENGINEERING DIVISION</td> <td style="font-size: x-small;">TESTED</td> <td style="font-size: x-small;">CLASS</td> <td style="font-size: x-small;">DIVISION</td> </tr> <tr> <td style="font-size: x-small;">ENGINEERING DIRECTORATE</td> <td></td> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">4116/ 7C</td> <td style="text-align: center;">20PA1002</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="font-size: x-small;">DRAWING</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="font-size: x-small;">FILE</td> </tr> </table>	<b>DO NOT SCALE</b>		<b>AUGUST 1983</b>		ENGINEER OR TECHNICIAN	BASIC REV.	GEORGE FECKE RANDIE UNSER	REVISION NO. 1 JUNE 2002	TRANSPORTATION ENGINEERING DIVISION		SEE THE REVISION LISTING ON PAGE 2		VALIDATION ENGINEERING DIVISION	TESTED	CLASS	DIVISION	ENGINEERING DIRECTORATE		19	48			4116/ 7C	20PA1002				DRAWING				FILE
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PALLET UNIT DATA				
ITEMS INCLUDED		● HAZARD CLASS AND DIVISION	● COMPAT- ABILITY GROUP	APPROX WEIGHT LBS
NSN	DODIC			
1305-00-182-3125	A102	1. 4	S	2, 782
00-143-7163	A131	1. 4	S	2, 974
00-965-0601	A149	1. 4	S	3, 886
00-943-0448	A162	-----INERT-----		3, 646

● 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

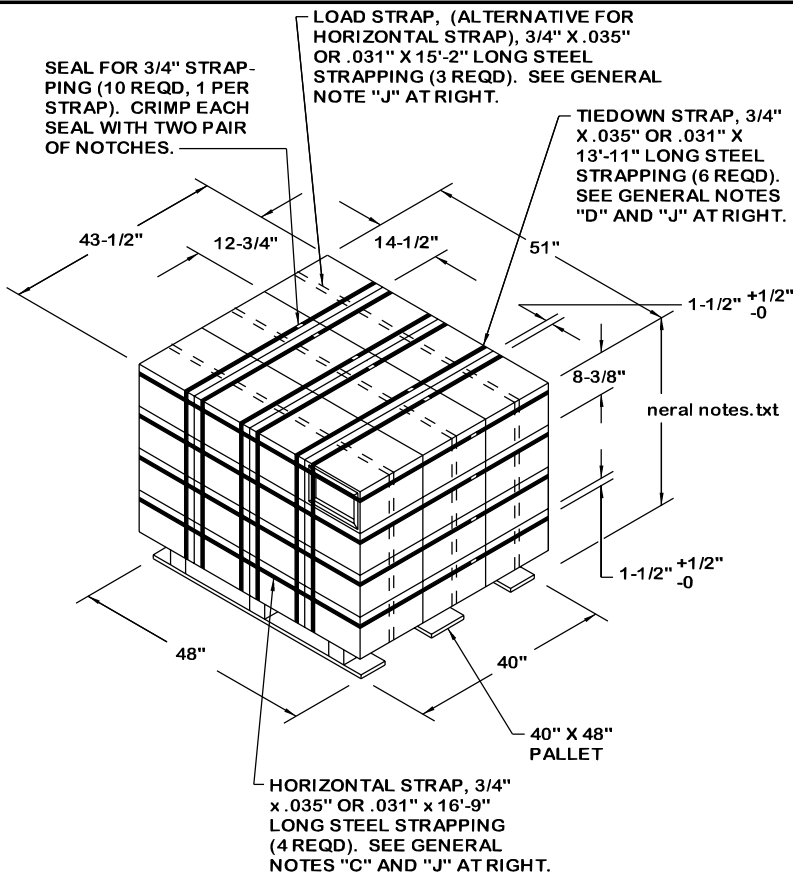
REVISION NO. 1, DATED JUNE 2002, CONSISTS OF:

1. UPDATING BOX WEIGHT.
2. CORRECTING DODIC IN PALLET UNIT DATA CHART.
3. DELETING NUMBER BY NATIONAL STOCK NUMBER FROM THE PALLET UNIT DATA CHART.
4. UPDATING DRAWING FORMAT.

**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. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE TOP OF EACH LAYER. 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. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE SIDE CLEATS OF THE END PANELS OF THE BOX. 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 REVISION TO THIS APPENDIX, THE CONTAINERS NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 7.62MM 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. 1-1/4" STRAPS MAY BE SUBSTITUTED FOR THE 3/4" STRAPPING SPECIFIED IN THE "PALLET UNIT" AT LEFT. FOUR 1-1/4" TIEDOWN STRAPS WILL REPLACE THE SIX 3/4" TIEDOWN STRAPS SPECIFIED. REFER TO GENERAL NOTE "CC" IN THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002 FOR ADDITIONAL GUIDANCE.
- J. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS WILL BE PRE-POSITIONED ON THE PALLET DECK OR THREADED THROUGH STRAP SLOTS. **NOTICE:** WHEN LOAD STRAPS ARE BEING USED IN LIEU OF HORIZONTAL STRAPS, THE THREE OUTBOARD BOXES ON THE BOTTOM LAYER OF THE 40" SIDES OF THE PALLET WILL BE POSITIONED WITH THE TOPS DOWNWARD AND THE THREE OUTBOARD BOXES ON THE TOP LAYER OF THE 40" SIDES OF THE PALLET WILL BE POSITIONED WITH THE TOPS UPWARD. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.
- K. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.
- L. THE STYLE 1 PALLET DELINEATED IN THE DETAIL 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.
- M. FOR DETAILS OF THE WIREBOUND BOX SEE ARDEC DRAWING 9362607.



**PALLET UNIT**

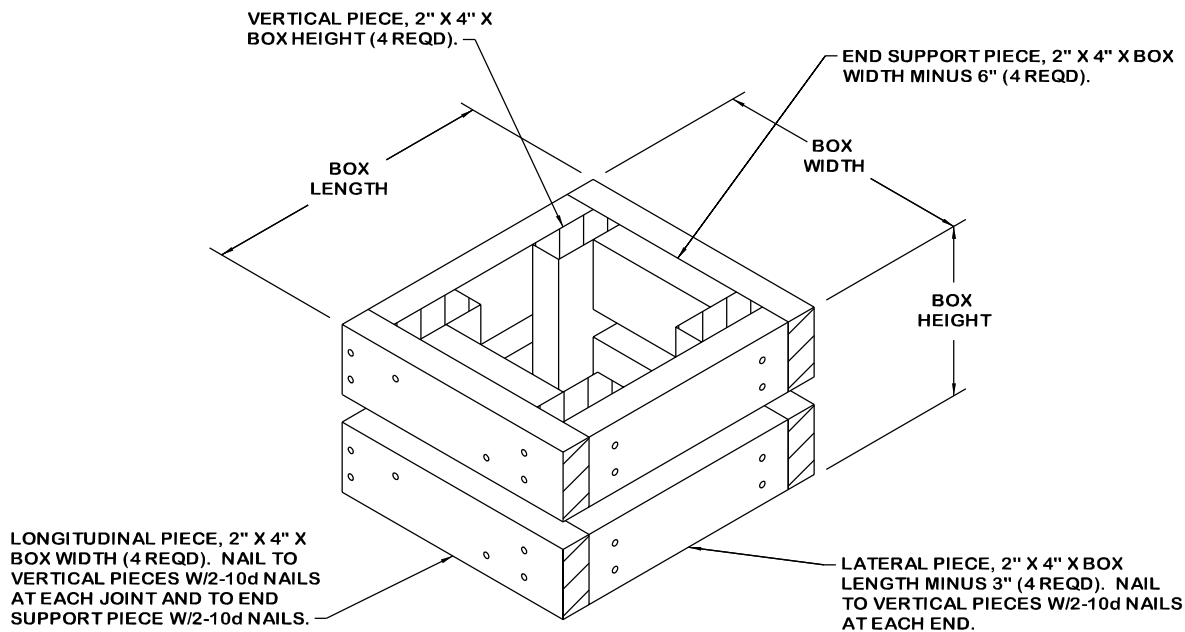
SEE GENERAL NOTE "B" AT RIGHT

48 BOXES OF 7.62MM CTG (864 PER BOX) @ 79 LBS	- - -	3,792 LBS
DUNNAGE	- - - - -	14 LBS
PALLET	- - - - -	80 LBS

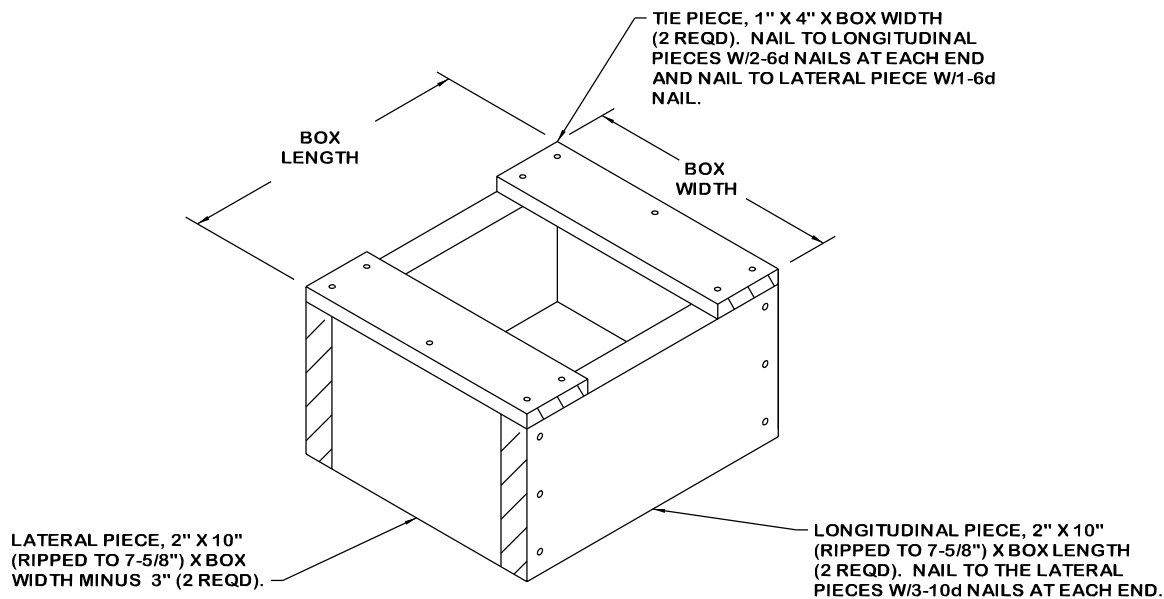
TOTAL WEIGHT	- - - - -	3,886 LBS (APPROX)
CUBE	- - - - -	50.1 CU FT (APPROX)

**BILL OF MATERIAL**

PALLET, 40" X 48"	- - - - -	1 REQD	- - - - -	80 LBS	
STEEL STRAPPING, 3/4"	-	150.50'	REQD	- - - - -	13.44 LBS
SEAL FOR 3/4" STRAPPING	- - -	10 REQD	- - - - -	NIL	



**FILLER ASSEMBLY**  
(FOR MINUS ONE BOX)



**ALTERNATIVE FILLER ASSEMBLY**  
(FOR MINUS ONE BOX)  
SEE GENERAL NOTE "K" ON PAGE 3.