

# APPENDIX 14B

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

CARTRIDGE, CALIBER .50, PACKED VARIOUS QUANTITIES  
IN WOODEN BOX, UNITIZED 30 BOXES PER 35" X  
45 $\frac{1}{2}$ " PALLET; APPROX BOX SIZE 18 $\frac{1}{2}$ " L X 9 $\frac{1}{2}$ " W X  
14 $\frac{7}{8}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION <sup>⊙</sup>				WEIGHT ( LBS )
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1305-						
00-028-6303	A527	C	I	1.4	C	2,773
00-028-6304	A527	C	I	1.4	C	2,833
00-028-6305	A528	C	I	1.4	C	2,833
00-028-6312	A527	C	I	1.4	C	3,073
00-028-6313	A528	C	I	1.4	C	3,073
00-028-6327	A530	C	I	1.4	C	2,953
00-028-6377	A558	C	I	1.4	C	3,703
00-028-6379	A559	C	I	1.4	C	3,703
00-028-6454	A534	C	I	1.4	G	2,953
00-028-6465	A549	C	I	1.4	G	2,863
00-028-6290	A575	C	I	1.4	C	3,853

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

⊙ 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**

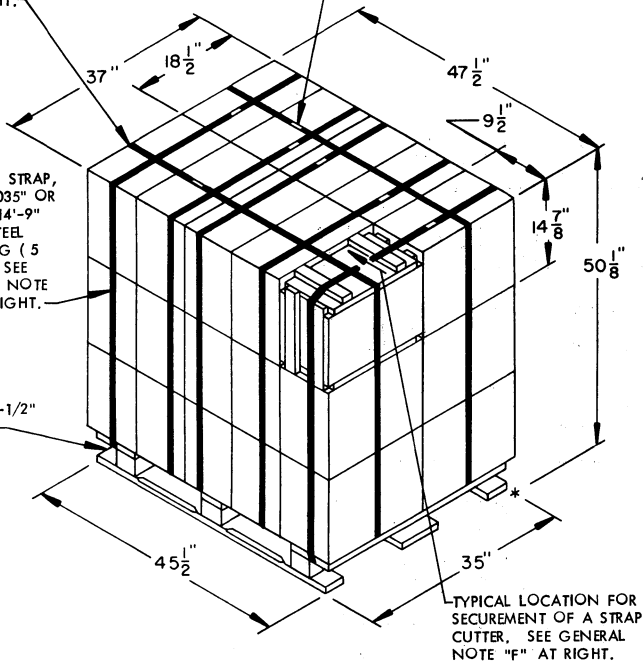
REVISIONS				DRAFTSMAN <i>RSH</i>	PROJ ENG <i>WWS</i>
				CHECKER <i>RSH</i>	LOG ENGRS OFFICE <i>John Smith</i>
				APPROVED, U. S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND <i>D. Martin</i>	
				APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM) <i>John L. Boyd</i>	
				U. S. ARMY DEFENSE AMMUNITION CENTER & SCHOOL	
				U. S. ARMY DARCOM DRAWING	
				SEPTEMBER 1983	
				CLASS	DIVISION
				DRAWING	FILE
				19	48
				4116/14B	20PA 1002

LOAD STRAP, 3/4" X .035" OR .031" X 14'-6" LONG STEEL STRAPPING (2 REQD). SEE GENERAL NOTE "C" AT RIGHT.

SEAL FOR 3/4" STRAPPING, (7 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

TIEDOWN STRAP, 3/4" X .035" OR .031" X 14'-9" LONG STEEL STRAPPING (5 REQD). SEE GENERAL NOTE "D" AT RIGHT.

35" X 45-1/2" PALLET.



**PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

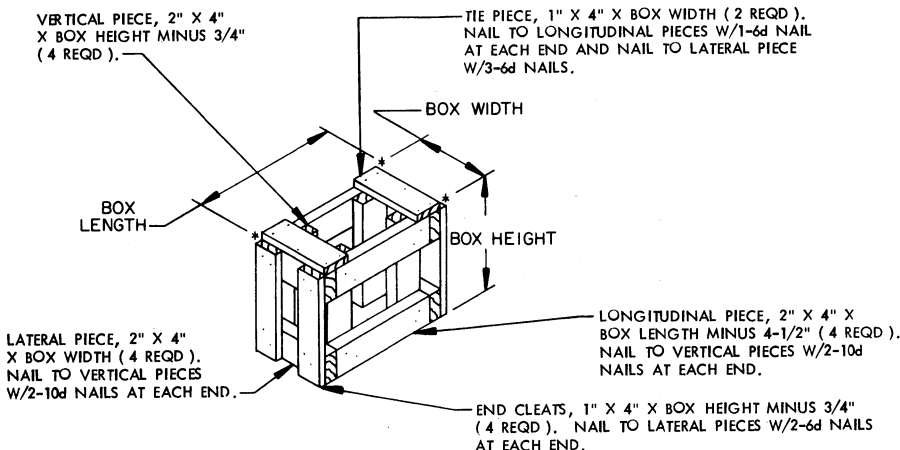
30 BOXES OF .50 CALIBER CARTRIDGE ( VARIOUS QUANTITIES ) @ 90 LBS	---	2,700 LBS ( APPROX )
DUNNAGE	-----	8 LBS
PALLET	-----	65 LBS
<b>TOTAL WEIGHT</b>	-----	<b>2,773 LBS ( APPROX )</b>
<b>CUBE</b>	-----	<b>51.0 CU FT ( APPROX )</b>

**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 WILL BE THREADED THROUGH THE STRAP SLOTS OF A PALLET. 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 TENSIONED AND SEALED PRIOR TO THE LOAD STRAPS.
- E. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR OUTLOADING 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 .50 CALIBER 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. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-3", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 14'-0". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 35-1/4", A GROSS UNIT WEIGHT OF 1,870 POUNDS, AND A UNIT CUBE OF 35.9 CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL 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.

**BILL OF MATERIAL**

PALLET, 35" X 45-1/2" -----	1 REQD-----	65 LBS
STEEL STRAPPING, 3/4" -----	106.75' REQD-----	7.63 LBS
SEAL FOR 3/4" STRAPPING -----	7 REQD-----	NIL



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