

# APPENDIX 14M

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

CARTRIDGE, CALIBER .50, PACKED 120 PER WOODEN  
BOX, UNITIZED 75 BOXES PER 40" X 48" PALLET;  
APPROX BOX SIZE 14 $\frac{1}{4}$ " L X 10 $\frac{1}{8}$ " W X 7 $\frac{7}{8}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION <sup>①</sup>				WEIGHT
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	( LBS )
1305-00-028-6292	A575	C	I	1.4	C	3,764

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

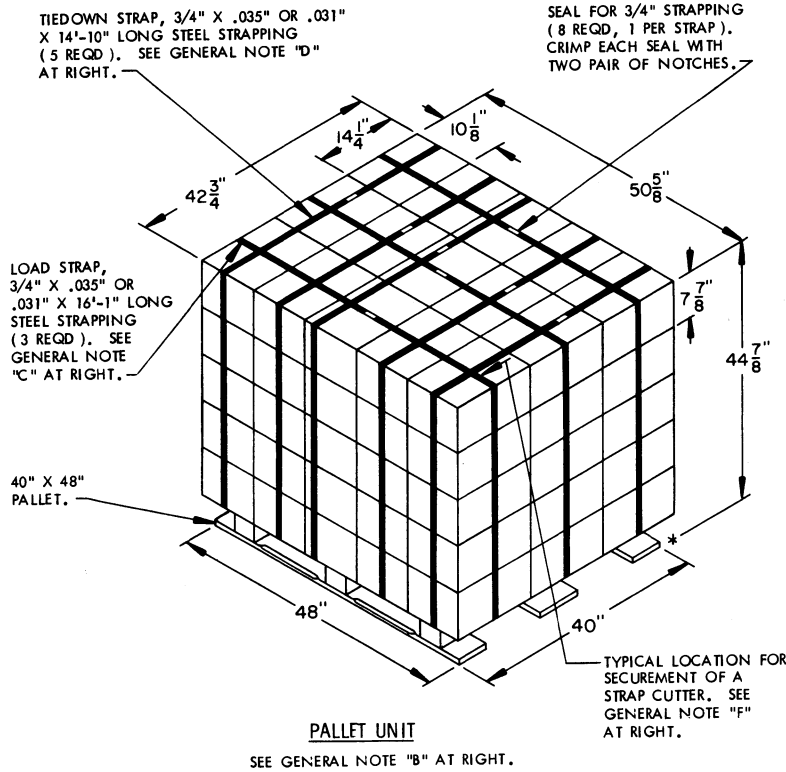
① HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING (S).

REVISIONS				DRAFTSMAN <i>RST</i>	PROJ ENG <i>RST</i>
				CHECKER <i>RST</i>	LOG ENGRG OFFICE <i>John Smith</i>
APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND					
<i>H. G. Martin</i> <i>H. B. Burrows</i>					
DRBAR - LEP <span style="float: right;">DRBAR - TMD</span>					
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)					
<i>John X. Boydell</i> U. S. ARMY DEFENSE AMMUNITION CENTER & SCHOOL					
U. S. ARMY DARCOM DRAWING					
JULY 1983					
CLASS	DIVISION	DRAWING	FILE		
19	48	4116/ 14M	20PA 1002		

**DO NOT SCALE**

**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. LOAD STRAPS WILL BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE 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 APPLIED UNTIL THE LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR UNLOADING 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 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, 2 LAYER (S) OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-2", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 13'-6". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 29'-1/8", A GROSS UNIT WEIGHT OF 2,293 LBS, AND A UNIT CUBE OF 36.5 CU FT. 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.



**PALLET UNIT**

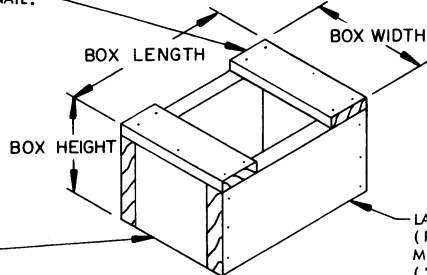
SEE GENERAL NOTE "B" AT RIGHT.

75 BOXES OF .50 CALIBER CARTRIDGE ( 120 PER BOX ) @ 49 LBS -----	3,675 LBS ( APPROX )
DUNNAGE -----	9 LBS
PALLET -----	80 LBS
<b>TOTAL WEIGHT -----</b>	<b>3,764 LBS ( APPROX )</b>
<b>CUBE -----</b>	<b>56.2 CU FT ( APPROX )</b>

**BILL OF MATERIAL**

PALLET, 40" X 48" -----	1 REQD -----	80 LBS
STEEL STRAPPING, 3/4" -----	122.42' REQD -----	8.74 LBS
SEAL FOR 3/4" STRAPPING -----	8 REQD -----	NIL

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



LATERAL PIECE, 2" X 8" ( RIPPED TO BOX HEIGHT MINUS 3/4" ) X BOX WIDTH MINUS 3" ( 2 REQD ).

LATERAL PIECE, 2" X 8" ( RIPPED TO BOX HEIGHT MINUS 3/4" ) X BOX LENGTH ( 2 REQD ). NAIL TO THE LATERAL PIECES W/3-10d NAILS AT EACH END.

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