# **APPENDIX 173**

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

ADAPTER KIT, 5-TON DUMP, FMTV, PACKED ONE PER M548 METAL BOX, UNITIZED 36 BOXES PER 40" X 48" PALLET; APPROX BOX SIZE 18-19/32" L X 8-19/64" W X 14-19/32" H

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

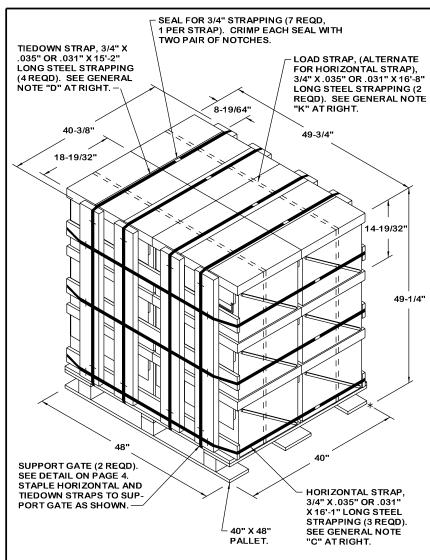
DISTRIBUTION STATEMENT AS

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

U.S. ARM	YMAT	ΓEF	RIEL COMMAND	D D	RAWI	NG	
APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND	ENGINEER	BASIC	LAURA FIEFFER		DO	NOTSCA	LE
Dayell Pishouh		REV.		WEB	SITE: HT	TP://WWW.E	AC.ARMY.MIL
	TECHNICIAN	REV.		AUGUST 2001			
Singly fore AMSOS-IM	DRAFTSMAN	BASIC REV.					
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND	TRANSPORTA ENGINEERII DIVISON	١Ġ	Laura A Fife			<u> </u>	
\	VALIDATIC ENGINEERII		TESTED	CLASS	DIVISION	DRAWING	FILE
U.S. ARMY DEFENSE AMMUNITION CENTER	DIVISION ENGINEERIN DIRECTORA	1G	willion P. Frich	19	48	4116/ 173	20PA1002

PALLET UNIT DATA					
ITEMS INCLUDED		HAZARD CLASS AND DIVISION		ADDDOV	
	DODIC	AND DI	APPROX		
NSN		QD CLASS	COMP GROUP	WEIGHT LBS	
UNASSIGNED	UNAS	INERT		2, 505	

<sup>•</sup> 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).



#### **PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

DUNNAGE	ADAPTER KITS (OF	 	05 250
			2,505 LBS (APPROX) 7.3 CU FT (APPROX)

BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
1" x 4" 2" x 6"	24.88 29.00	8. 29 29. 00			
NAILS	NO. REQD	POUNDS			
6d (2")	72	0. 42			
PALLET, 40" X 48" 1 REQD 80 LBS STEEL STRAPPING, 3/4" - 108.92' REQD 9.72 LBS SEAL FOR 3/4" STRAPPING 7 REQD NIL STAPLE 28 REQD NIL					

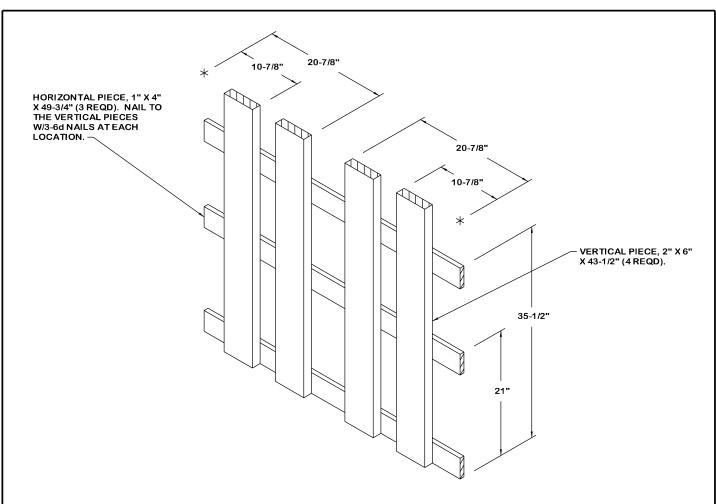
#### **GENERAL NOTES**

- 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, ALIGNED WITH THE HORIZONTAL PIECES OF THE SUPPORT GATE. 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, ALIGNED WITH THE VERTICAL PIECES OF THE SUPPORT GATE. 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 - - - 19-48-4118-1-2-34-14-22PA1002
END OPENING ISO
CONTAINER - - - 19-48-4153-15PA1002
MILVAN - - - - 19-48-4166-15PA1003
SIDE OPENING ISO
CONTAINER - - - 19-48-4267-15PA1009

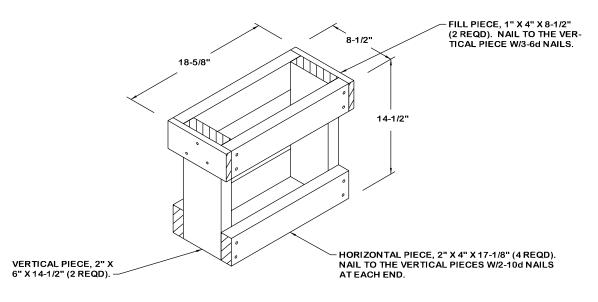
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING ADAPTER KITS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN 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. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES MUST BE OMITTED, ONE HORIZONTAL STRAP MUST BE OMITTED, THE SUPPORT GATES MUST BE MODIFIED AS DELINEATED ON PAGE 4, AND THE TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-8". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 34-5/8", A GROSS UNIT WEIGHT OF 1,698 POUNDS, AND A UNIT CUBE OF 40.3 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO INTERMODAL FREIGHT CONTAINER. 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.
- K. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS MAY BE PRE-POSITIONED ON THE PALLET DECK OR THREADED THROUGH THE STRAP SLOTS.
- L. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES.
- M. FOR DETAILS OF THE M548 METAL BOX SEE ARDEC DRAWING 7258943.

PAGE 3



### **SUPPORT GATE**

NOTE: FOR A TWO HIGH LOAD (24 BOXES), ELIMINATE THE UPPER HORIZONTAL PIECE AND SHORTEN THE VERTICAL PIECES TO 29".



### FILLER ASSEMBLY

(FOR MINUS ONE BOX)