

# APPENDIX 171

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

ALARM, CHEMICAL AGENT, AUTOMATIC, PORTABLE, M8A1, PACKED ONE PER PPP-B-621 WOODEN BOX OR PPP-B-601 WOODEN BOX, OR PPP-B-585 WIREBOUND BOX, UNITIZED 30 PPP-B-621 PER 40" X 48" PALLET (UNIT LOAD A), OR 36 PPP-B-601 BOXES PER 40" X 48" PALLET (UNIT LOAD B) OR 36 PPP-B-585 BOXES PER 40" X 48" PALLET (UNIT LOAD C); APPROX PPP-B-621 BOX SIZE 18-3/4" L X 10-5/8" W X 14-5/8" H; APPROX PPP-B-601 BOX SIZE 18" L X 11-3/8" W X 13-7/8" H; APPROX PPP-B-585 BOX SIZE 17-3/4" L X 9-7/8" W X 14" 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			
APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND <i>NH</i> <i>David R. Pollock</i> <i>Diap E</i> <i>Starkwich</i> AMSTA-AR-ESK                      AMSIO-TMJ	DRAFTSMAN ENGINEER SUPPLY ENGINEERING DIVISION <i>T. J. Mohr</i>	BETTY J. KUNDERT SANDRA M. SCHULTZ TRANSPORTATION ENGINEERING DIVISION <i>W. Smith</i>	VALIDATION ENGINEERING DIVISION <i>J. Kuhn</i>
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND  <i>Tammy V. Dulleger</i> U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		LOGISTICS ENGINEERING OFFICE <i>William J. Ernst</i> APRIL 1985	
REVISION NO. 1	JUNE 1996	CLASS	DIVISION
SEE THE REVISION LISTING ON PAGE 2		DRAWING	FILE
		19	48
		4116/ 171	20PA 1002

DO NOT SCALE

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASS AND DIVISION ●		APPROX WEIGHT (LBS)		
NSN	DODIC	OD CLASS	COMP GROUP			
6665-01-105-5623	----	INERT		721	845	845

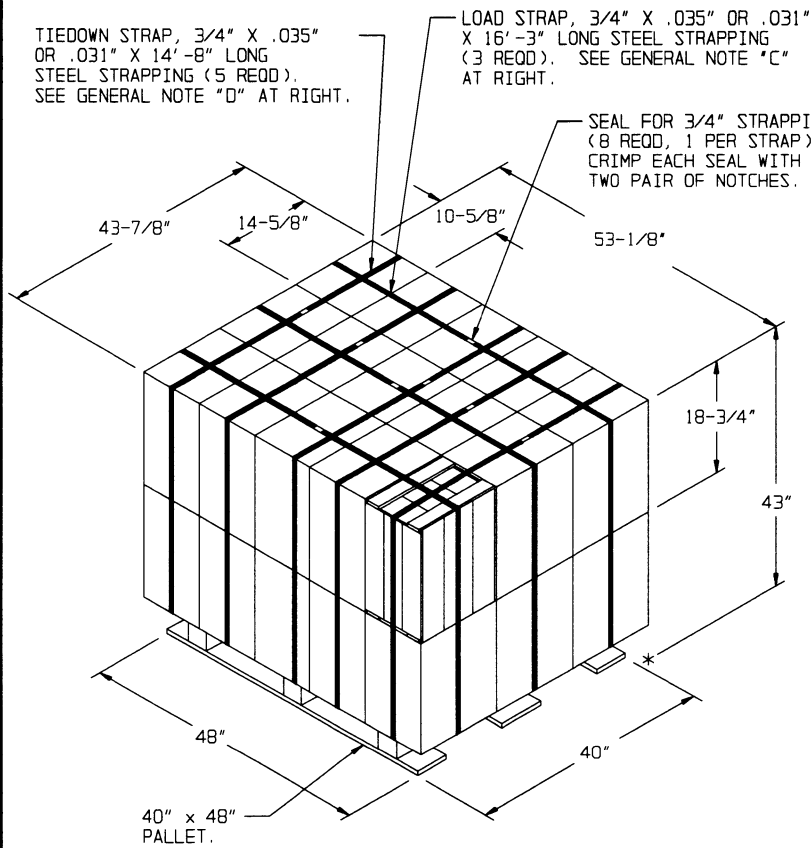
● HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

#### REVISION

REVISION NO. 1, DATED JUNE 1996, CONSISTS OF:

1. CHANGING BOX SIZE AND WEIGHT.
2. ADD WIREBOUND BOX
3. DELETING GENERAL NOTE RELATING TO STRAP CUTTER AND RE-LETTERING OTHER GENERAL NOTES ACCORDINGLY.

**GENERAL NOTES**



**PALLET UNIT A**

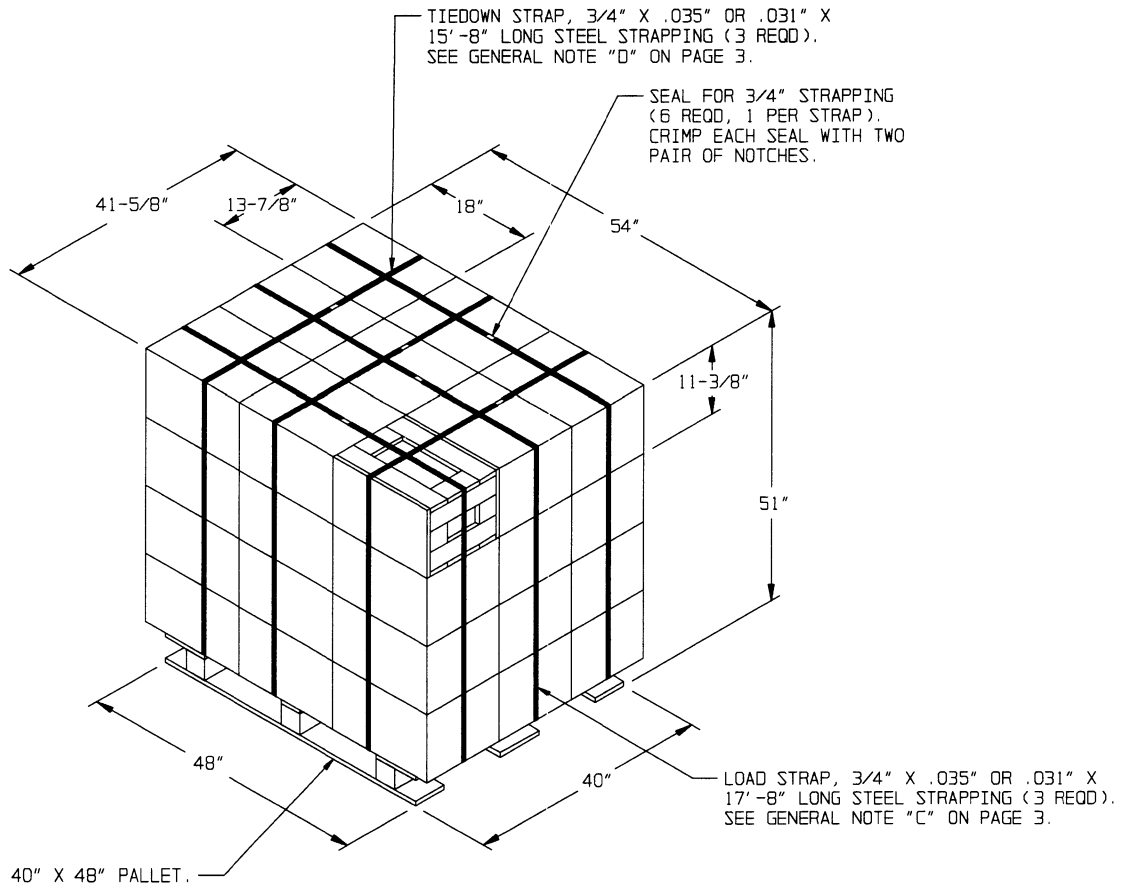
SEE GENERAL NOTE "B" AT RIGHT.

30 BOXES OF CHEMICAL AGENT ALARM (1 PER BOX) AT 21 LBS	--	630 LBS (APPROX)
DUNNAGE	-----	11 LBS
PALLET	-----	80 LBS
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TOTAL WEIGHT	-----	721 LBS (APPROX)
CUBE	-----	58.0 CU FT (APPROX)

**BILL OF MATERIAL (UNIT A)**

PALLET, 40" X 48"	-----	1 REED	-----	80 LBS	
STEEL STRAPPING, 3/4"	-	121.92'	REED	-----	10.89 LBS
SEAL FOR 3/4" STRAPPING	-----	8 REED	-----	NIL	

- 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 MAY BE THREADED THROUGH THE STRAP SLOTS OF A PALLET OR 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 FOR PALLET UNIT A AND B ON PAGES 3 AND 4, TO PASS UNDER THE TOP DECK 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. INSTALL TIEDOWN STRAP, FOR PALLET UNIT C ON PAGE 5, 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 LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
- F. 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
- 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 ALARM, CHEMICAL AGENT, 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.
- J. THE STYLE 1 PALLET DELINEATED IN THE DETAIL AT LEFT, AND ON PAGES 4 AND 5, 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.

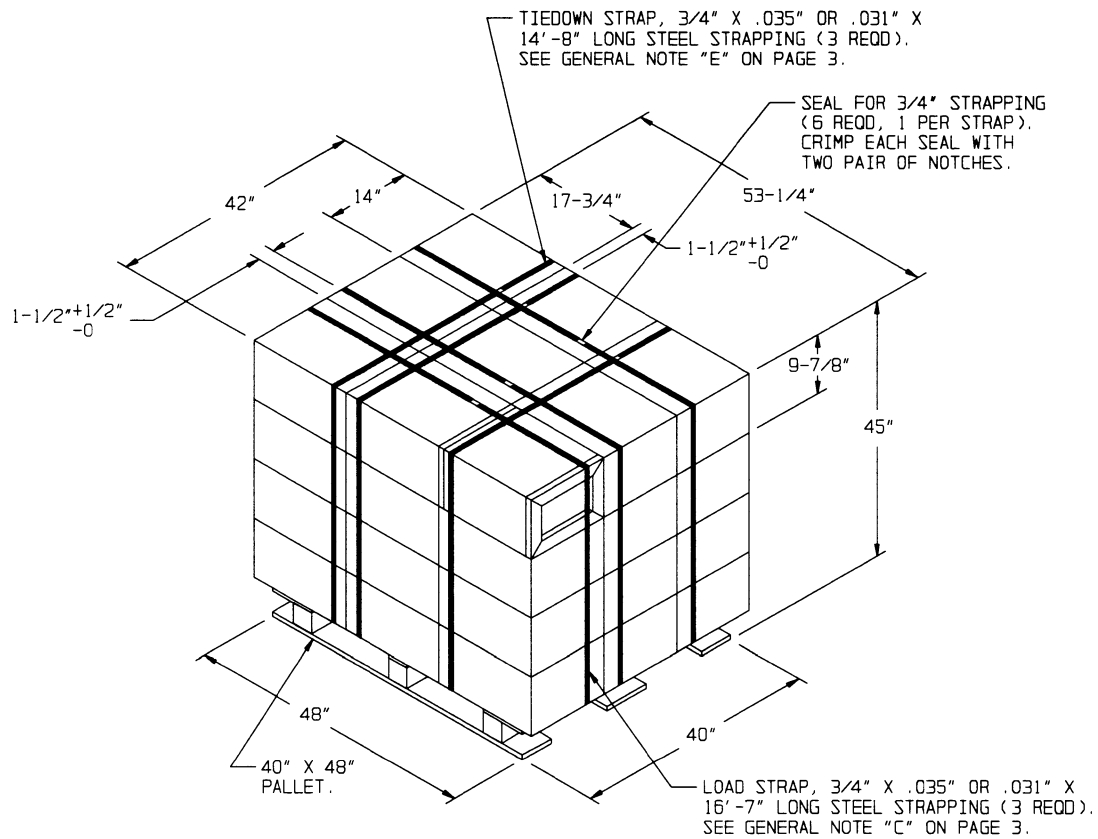


**PALLET UNIT B**

SEE GENERAL NOTE "B" ON PAGE 3.

36 BOXES OF CHEMICAL AGENT ALARM (1 PER BOX) AT 21 LBS	--	756 LBS (APPROX)
DUNNAGE	--	9 LBS
PALLET	--	80 LBS
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TOTAL WEIGHT	--	845 LBS (APPROX)
CUBE	--	66.4 CU FT (APPROX)

BILL OF MATERIAL (UNIT B)			
PALLET, 40" X 48"	----	1 REOD	80 LBS
STEEL STRAPPING, 3/4"	100.00'	REOD	8.92 LBS
SEAL FOR 3/4" STRAPPING	----	6 REOD	NIL



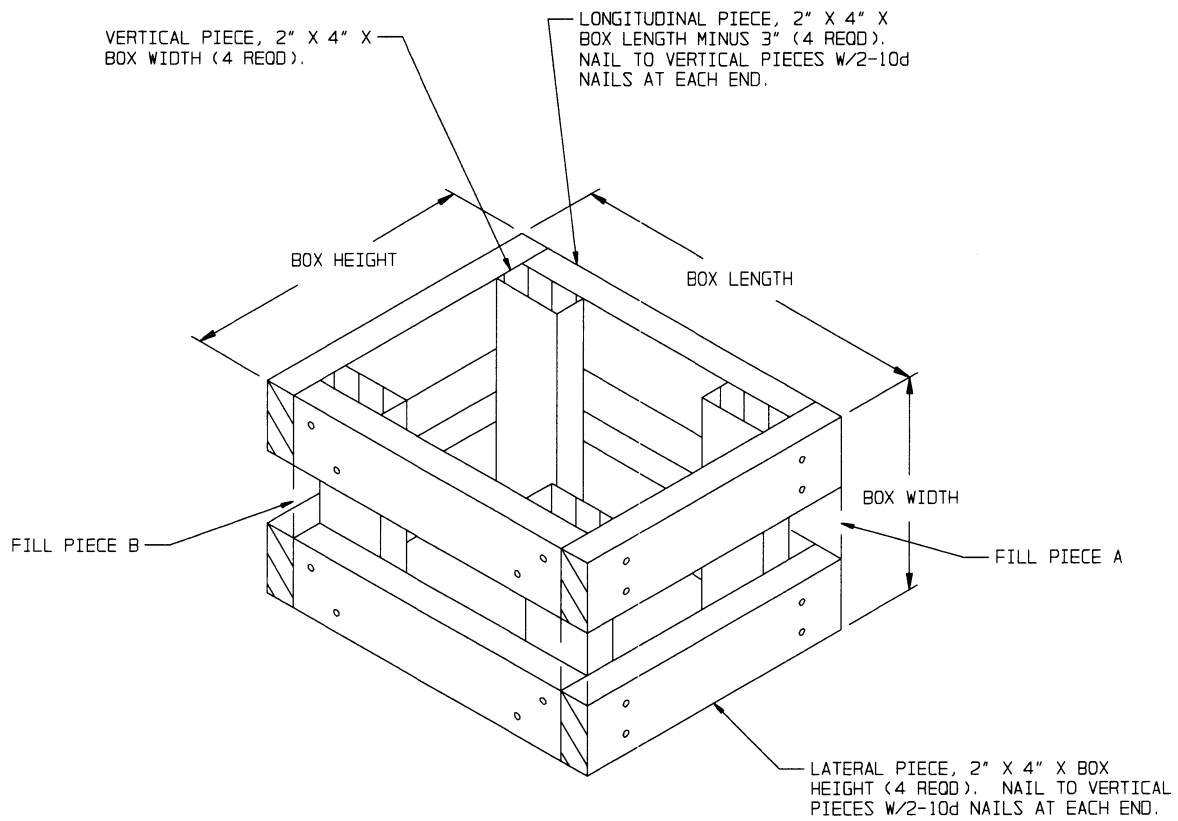
**PALLET UNIT C**

SEE GENERAL NOTE "B" ON PAGE 3.

36 BOXES OF CHEMICAL AGENT ALARM (1 PER BOX) AT 21 LBS	--	756 LBS (APPROX)
DUNNAGE	-----	9 LBS
PALLET	-----	80 LBS
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TOTAL WEIGHT	-----	845 LBS (APPROX)
CUBE	-----	58.3 CU FT (APPROX)

**BILL OF MATERIAL (UNIT C)**

PALLET, 40" X 48"	-----	1 REOD	-----	80 LBS	
STEEL STRAPPING, 3/4"	-----	93.67'	REOD	-----	8.36 LBS
SEAL FOR 3/4" STRAPPING	-----	6 REOD	-----	NIL	



**FILLER ASSEMBLY**

(FOR MINUS ONE BOX)

THIS FILLER ASSEMBLY CAN BE USED WITH THE PALLET UNITS AS DEPICTED ON PAGES 3, 4, AND 5.

FILL PIECE A WILL BE REQUIRED FOR UNITS B AND C OUTER STACKS ON 40" SIDES OF PALLET. FILL PIECE B WILL BE REQUIRED FOR UNIT B OUTER STACKS ON 48" SIDES OF PALLET. FILL PIECES A AND B REQUIRED FOR UNIT A OUTER STACKS ON 48" SIDES OF PALLET.