

# APPENDIX 45H

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

**CARTRIDGE, 105MM, PACKED 2 PER WOODEN  
BOX, UNITIZED 16 BOXES PER 42" X 53" PALLET;  
APPROX BOX SIZE 44" L X 14-1/4" W X 8-3/4" 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 <i>NLM</i></p> <p style="font-size: x-large; font-family: cursive;"><i>David A. Kistritz</i></p> <p style="font-size: x-small; text-align: center;">AMSTA-AR-WEP-RP</p>	<p>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.</p>				
<p style="font-size: x-large; font-family: cursive;"><i>Paul Aslett</i></p> <p style="font-size: x-small; text-align: center;">AMSOS-TM</p>	DO NOT SCALE		DECEMBER 1980		
	ENGINEER OR TECHNICIAN	BASIC REV.	<p>WILLIAM FRERICHS</p> <p>WALTER GORDON</p>		
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND	TRANSPORTATION ENGINEERING DIVISION	<p style="font-size: x-large; font-family: cursive;"><i>David A. Kistritz</i></p> <p style="font-size: x-small;">TESTED</p>		REVISION NO. 1	
<p style="font-size: x-large; font-family: cursive;"><i>William P. French</i></p> <p style="font-size: x-small; text-align: center;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	VALIDATION ENGINEERING DIVISION	<p style="font-size: x-large; font-family: cursive;"><i>Walter Gordon</i></p>		NOVEMBER 2002	
	ENGINEERING DIRECTORATE	<p style="font-size: x-large; font-family: cursive;"><i>William P. French</i></p>		SEE THE REVISION LISTING ON PAGE 2	
		CLASS	DIVISION	DRAWING	FILE
	19	48	4116/ 45H	20PA1002	

PROJECT FSA 146/45H-75

PALLET UNIT DATA				
ITEMS INCLUDED		HAZARD CLASS AND DIVISION	COMPAT-ABILITY GROUP	APPROX WEIGHT LBS
NSN	DODIC			
1315-				
00-756-1676	C429	1. 1	E	2, 290
00-935-6042	C429	1. 1	E	2, 290
00-159-3201	C503	1. 2. 1	C	2, 290
00-143-6901	C507	1. 2. 1	C	2, 290
00-989-1167	C510	1. 2. 1	C	2, 290
00-079-5482	C514	INERT		2, 290
00-728-0704	C518	1. 1	E	2, 290
00-935-6128	C518	1. 1	E	2, 290
01-063-8832	C518	1. 1	E	2, 290

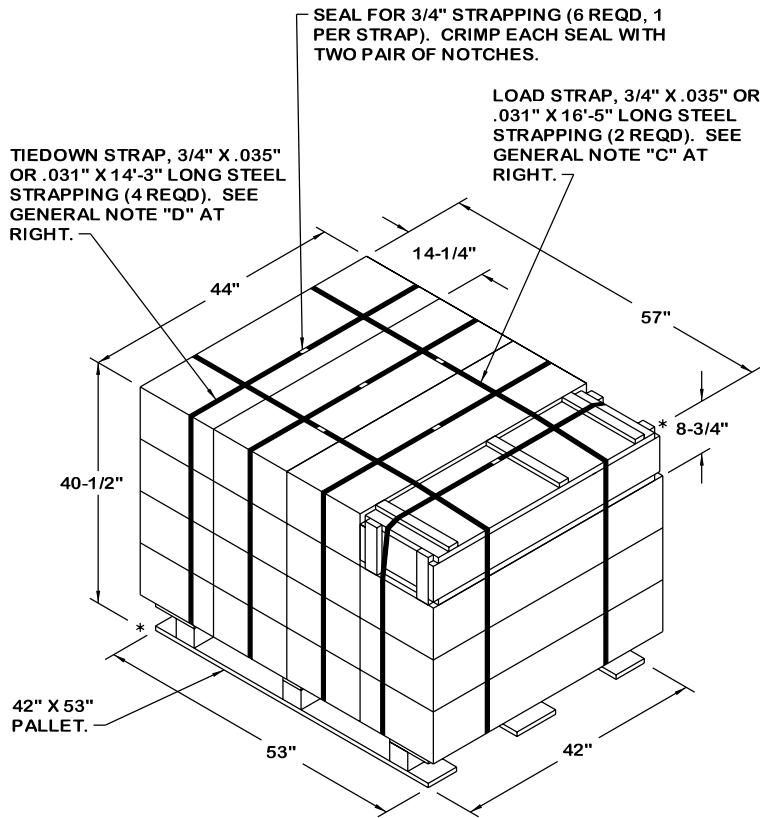
- HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

### REVISION

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

1. ADDING ITEMS BY NATIONAL STOCK NUMBER (NSN) TO THE "PALLET UNIT DATA" CHART.
2. DELETING ITEM BY NATIONAL STOCK NUMBER (NSN) FROM THE "PALLET UNIT DATA" CHART.
3. CHANGING ALL THE NATIONAL STOCK NUMBERS IN THE "PALLET UNIT DATA CHART" TO REFLECT A PACKAGE GROSS WEIGHT OF 137 LBS.
4. ADDING BOX REFERENCE GENERAL NOTE AND DELETING STRAP CUTTER GENERAL NOTE.
5. UPDATING DRAWING FORMAT.

**GENERAL NOTES**



**PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

16 BOXES OF 105MM CARTRIDGE (2 PER BOX) @ 137 LBS	--	2,192 LBS (APPROX)
DUNNAGE	-	8 LBS
PALLET	-	90 LBS
<hr/>		
TOTAL WEIGHT	-	2,290 LBS (APPROX)
CUBE	-	58.8 CU FT (APPROX)

**BILL OF MATERIAL**

PALLET, 42" X 53"	-	-	-	1 REQD	-	-	-	90 LBS
STEEL STRAPPING, 3/4"	-	89.83'	REQD	-	-	-	-	8.02 LBS
SEAL FOR 3/4" STRAPPING	-	-	-	6 REQD	-	-	-	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 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. 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 105MM CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSNs) 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 1B 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. FOR DETAILS OF THE WOODEN BOX SEE ARDEC DRAWING 8836004.

