

# APPENDIX 57D

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

FUZE, BOMB, NOSE, PACKED 9 PER MK I MOD O  
METAL BOX, UNITIZED 30 BOXES PER 35" X 45½"  
PALLET; APPROX BOX SIZE 18½" L X 9½" W X  
14¾" H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1325- 00-009-3729	F740	C	I	1.4	D	1,783

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

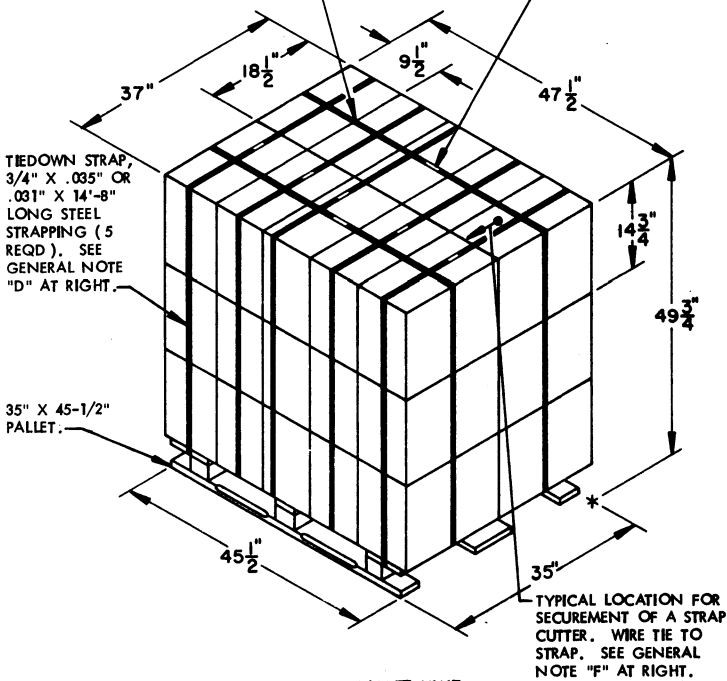
① HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE  
CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY.  
VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY  
CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION  
SYSTEM LISTING OR OTHER APPROVED LISTING (S).

REVISIONS				DRAFTSMAN <i>TRS</i> / dh	PROJ ENG <i>LAP/WRF</i>
				CHECKER <i>GEG</i>	LOG ENGRG OFFICE <i>W J Ernst</i>
<small>APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND</small>					
		<i>Monte</i>		<i>B. O. Johnson</i>	
<small>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL FORWARD (AMC)</small>					
<i>William F Ernst</i> <small>U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL</small>					
<b>U.S. ARMY AMC DRAWING</b>					
<b>SEPTEMBER 1985</b>					
CLASS	DIVISION	DRAWING	FILE		
19	48	4116/ 57D	20PA 1002		

**DO NOT SCALE**

LOAD STRAP, 3/4" X .035" OR .031" X 16'-5" 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.



**PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

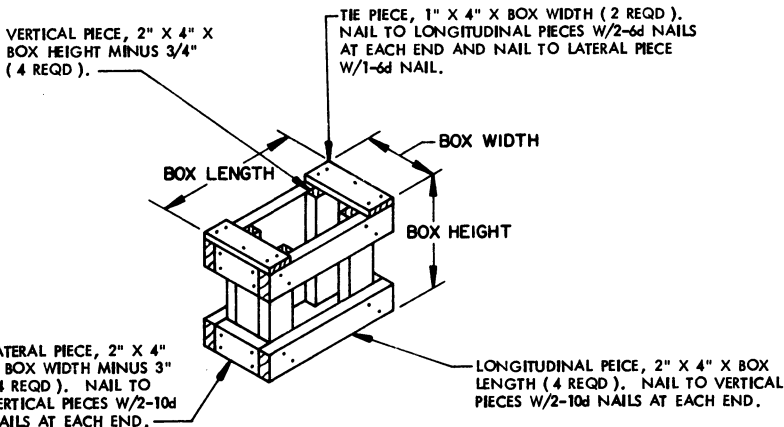
30 BOXES OF BOMB NOSE FUZE ( 9 PER BOX ) @ 57 LBS -----	1,710 LBS ( APPROX )
DUNNAGE -----	8 LBS
PALLET -----	65 LBS
<b>TOTAL WEIGHT -----</b>	<b>1,783 LBS ( APPROX )</b>
<b>CUBE -----</b>	<b>50.6 CU FT ( APPROX )</b>

**BILL OF MATERIAL**

PALLET, 35" X 45-1/2" -----	1 REQD -----	65 LBS
STEEL STRAPPING, 3/4" -----	106.17' REQD -----	7.58 LBS
SEAL FOR 3/4" STRAPPING -----	7 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. 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 ( DARCUM ) 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 DARCUM 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 BOMB NOSE FUZES 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'-2" AND LOAD STRAP LENGTHS MUST BE DECREASED TO 13'-11". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 35", A GROSS UNIT WEIGHT OF 1,212 POUNDS, AND A UNIT CUBE OF 35.6 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.
- K. THE STYLE 1A 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 THE ITEMS COVERED BY THIS APPENDIX. IF THE PALLET TO BE USED DOES NOT HAVE STRAP SLOTS, HOWEVER, THE LOAD STRAPS MUST BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING THE BOXES ON THE PALLET.



**FILLER ASSEMBLY**

( FOR MINUS ONE BOX )