

# APPENDIX 63

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

FUZE, DELAY ELEMENT, PACKED 240 PER WOODEN  
BOX, UNITIZED 90 BOXES PER 40" X 48"  
PALLET; APPROX BOX SIZE 13 $\frac{11}{16}$ " L X 7 $\frac{29}{32}$ " W X  
10 $\frac{7}{16}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1325- 00-585-9289	G213	C	III	(04) 1.2	B	2,520
00-891-5439	G216	C	III	(04) 1.2	B	2,520

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

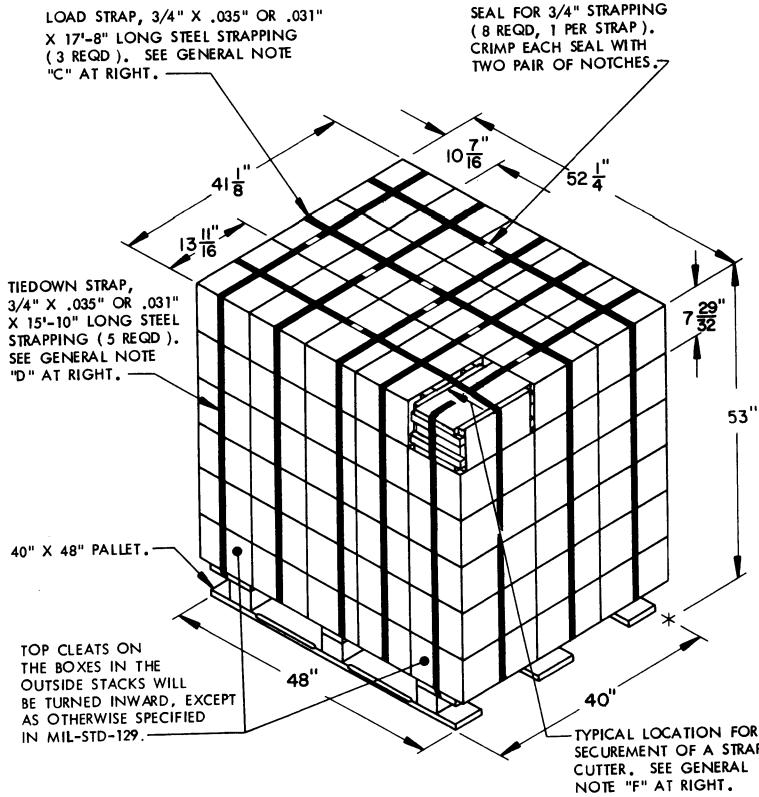
① HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATION PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

DO NOT SCALE

REVISIONS				DRAFTSMAN <i>KLC</i>	PROJ ENG <i>bh</i>
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APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MUNITIONS AND CHEMICAL COMMAND				<i>Keith M. Banton</i>	<i>W. J. ...</i>
DRMCM-LEP				DRMCM-TWD	
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY WATERFIRE DEVELOPMENT AND READINESS COMMAND (DARCOM)					
<i>John L. ...</i>					
U. S. ARMY DARCOM DRAWING					
FEBRUARY 1984					
CLASS	DIVISION	DRAWING	FILE		
19	48	4116/ 63	20PA 1002		

**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 WILL BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. LOAD STRAPS WILL 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 OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.  
 CARLOADING --- DRAWING 19-48-4115-5PA1002  
 TRUCKLOADING---DRAWING 19-48-4117-11PA1003  
 STORAGE -----DRAWING 19-48-4118-1-2-3-4-14-22 PA1002
- 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 FUZE, DELAY ELEMENT, 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, TWO LAYERS OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 13'-3", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 15'-2". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 37'-1/8", A GROSS UNIT WEIGHT OF 1,710 POUNDS, AND A UNIT CUBE OF 46.2 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 LAYER (S) 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.

90 BOXES OF DELAY ELEMENT FUZES (240 PER BOX) @ 27 LBS	-----	2,430 LBS (APPROX)
DUNNAGE	-----	10 LBS
PALLET	-----	80 LBS
<b>TOTAL WEIGHT</b>	-----	<b>2,520 LBS (APPROX)</b>
<b>CUBE</b>	-----	<b>65.9 CU FT (APPROX)</b>

**BILL OF MATERIAL**

PALLET 40" X 48"	-----	1 REQD	-----	80 LBS
STEEL STRAPPING, 3/4"	-----	132.17' REQD	-----	9.44 LBS
SEAL FOR 3/4" STRAPPING	-----	8 REQD	-----	NIL

