## APPENDIX 107D

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

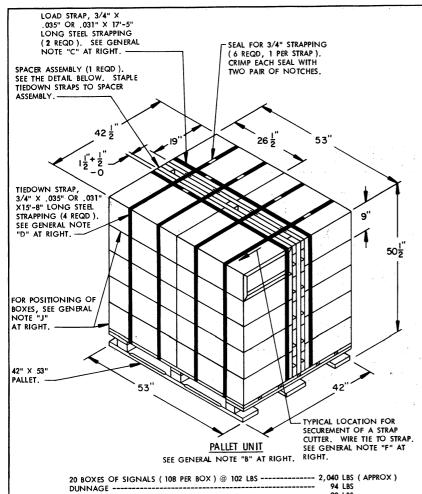
SIGNAL, SMOKE AND ILLUMINATING, PACKED 108 PER WIREBOUND BOX, UNITIZED 20 BOXES PER 42" X 53" PALLET; APPROX BOX SIZE 26½" L X 19" W X 9" H

	PALLET UNIT DATA					
ITEMS INCLUDED HAZARD CLASSIFICATION <sup>®</sup>						WEIGHT
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	(LBS)
1370- 00-115-3432	<b>L27</b> 5	С	II-C	1.4	G	2, 224

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

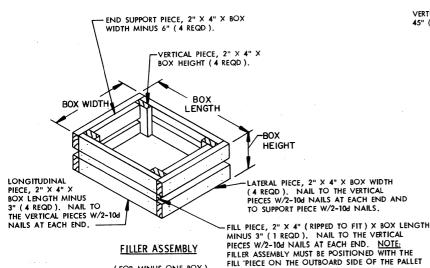
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	onse	MB	into	DR SMC - TI	10
	APPRO MATER	APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READMESS COMMAND (DARCOM)			
		John ARE	Z /	SOJANIA BE AMMUNITION CE	MITION CENTER AND SCHOOL
	U. S. ARMY DARCOM I	DRAWING			
		NO	VEN	BER 19	83
	CLA	SS DIV	ISION	DRAWING	FILE
	1		18	4116/	20PA
		7 4	.0	107D	1002

DO NOT SCALE



	BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET	
2" X 4"	64.25	42.83	
NAILS	NO. REQD	POUNDS	
10d ( 3" )	72	1.11	
PALLET, 42" X 53"- STEEL STRAPPING, SEAL FOR 3/4" STR, STAPLE	3/4" 97.50' REQD - APPING 6 REQD	90 LBS 6.96 LBS NIL NIL	

PALLET ---



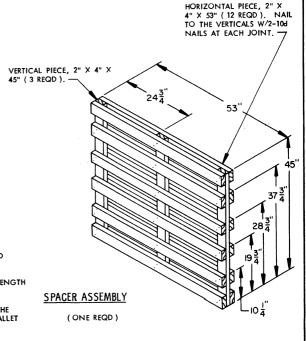
TOTAL WEIGHT ------ 2,224 LBS (APPROX )

## 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.
- DIMENSIONS, CUBE AND WEIGHT OF A PALLET UNIT WILL VARY SLIGHT-LY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. THE LOAD STRAPS MUST BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS DIMENSIONED. 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
- 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 19-48-4118-1-2-3-4-14-22PA1002

- 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 SIGNALS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCKS 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.
- POSITION THE TWO OUTBOARD BOXES ON EACH END OF THE BOTTOM LAYER OF THE UNIT WITH THE TOP DOWNWARD, AND THE TWO OUTBOARD BOXES ON EACH END OF THE TOP LAYER OF THE UNIT WITH THE TOP UPWARD.
- 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 14'-2", LOAD STRAP LENGTHS MUST BE DECREASED TO 15'-11", AND THE SPACER ASSEMBLY MUST BE MODIFIED. SPACER ASSEMBLY MODIFICATIONS INCLUDE CHANGING VERTICAL PIECE LENGTH TO 36", ELIMINATING THE HORIZONTAL PIECES LOCATED AT 37-3/4" HIGH, AND LOCATING THE UPPER HORIZONTAL PIECES EVEN WITH THE TOP OF THE VERTICAL PIECES. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 41-1/2", A GROSS UNIT WEIGHT OF 1,800 POUNDS, AND A UNIT CUBE OF \$4.1 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. ECONOMICS OF TRANSPORTATION AND HANDLING.



( FOR MINUS ONE BOX )

PAGE 2