

APPENDIX 121D

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

CAP, BLASTING, NON-ELECTRIC, M7, PACKED 100
PER WOODEN BOX, UNITIZED 40 BOXES PER
35" X 45½" PALLET; APPROX BOX SIZE 17½" L X
9½" W X 9½" H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1375- 01-057-6439	M131	A	VIII	1.1	B	552

REVISION

REVISION NO. 1, DATED SEPTEMBER 1985, CONSISTS OF:

1. CHANGING BOX TYPE AND BOX DIMENSIONS.
2. UPDATING PALLET UNIT TO CONFORM TO 1 ABOVE.

REVISION NO. 2 DATED

1. CHANGING BOX TYPE AND BOX DIMENSIONS.
2. UPDATING PALLET UNIT TO CONFORM TO 1 ABOVE.

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).

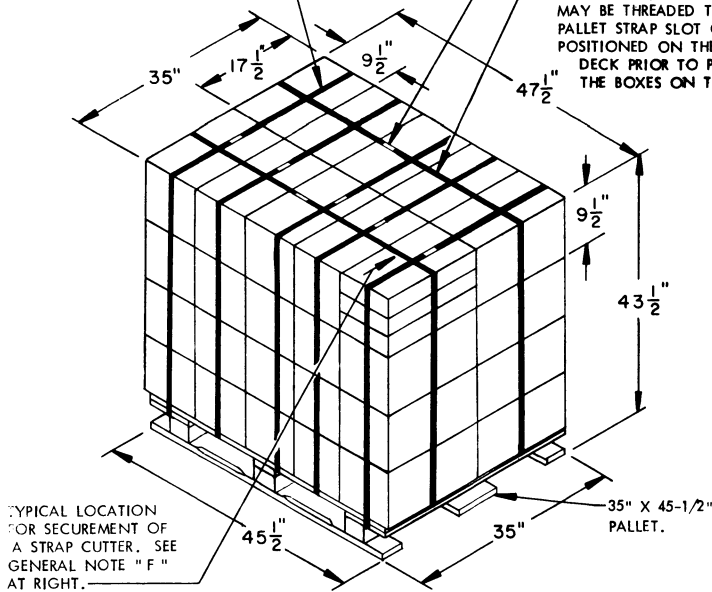
DO NOT SCALE

REVISIONS				DRAWING NO. B1/dh	PROJ. ENG. WRE/dk	(MTR/ER)
1	SEP 85	WRE/dk	D.L. Kocik, S. Dredem SMCAR-EM AMBMC-TMD	GRC	WRE/dk	WRE/dk
2	OCT 88	WRE/dk	W. F. Ennet SMCAR-EM AMBMC-TMD	GRC	WRE/dk	WRE/dk
				APPROVED, U. S. ARMY ARMAMENT MATERIAL READINESS COMMAND		
				M. H. Benton DSAR-LEP		
				APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIAL DEVELOPMENT AND READINESS COMMAND (DARCOM)		
				David E. Brown U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		
U. S. ARMY DARCOM DRAWING						
MAY 1981						
CLASS	DIVISION	DRAWING	FILE			
19	48	4116/ 121D	20PA 1002			

TIEDOWN STRAP, 3/4" X .035" OR .031" X 13'-3" LONG STEEL STRAPPING (5 REQD). SEE GENERAL NOTE "D" AT RIGHT.

SEAL FOR 3/4" STRAPPING (7 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

LOAD STRAP, 3/4" X .035" OR .031" X 15'-4" LONG STEEL STRAPPING (2 REQD). STRAP MAY BE THREADED THRU THE PALLET STRAP SLOT OR PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING THE BOXES ON THE PALLET.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

40 BOXES OF BLASTING CAPS (100 PER BOX) @ 12 LBS ----- 480 LBS (APPROX)
 DUNNAGE ----- 7 LBS
 PALLET ----- 65 LBS

TOTAL WEIGHT ----- 552 LBS (APPROX)
 CUBE ----- 41.9 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2" -----	1 REQD -----	65 LBS
STEEL STRAPPING -----	96.92 REQD -----	6,93 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 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 AMC (DARCOM) DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.
 CARLOADING ----- DWG 19-48-4115-5PA1002
 TRUCKLOADING ----- DWG 19-48-4117-11PA1003
 STORAGE ----- DWG 19-48-4118-1-2-3-4-14-22PA1002
- 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 BLASTING CAPS 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. 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.

LONGITUDINAL PIECE, 2" X 4" X BOX LENGTH (4 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH END.

VERTICAL PIECE, 2" X 4" X BOX HEIGHT (4 REQD).

BOX LENGTH

BOX WIDTH

BOX HEIGHT

LATERAL PIECE, 2" X 4" X BOX WIDTH MINUS 3" (4 REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END.

STRAP BEARING PIECE, 2" X 3" X BOX WIDTH MINUS 3" (AS REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END. NOTE: WHEN A FILLER ASSEMBLY IS LOCATED IN AN OUTER STACK ON A 45-1/2" SIDE OF THE PALLET, A "STRAP BEARING PIECE" MUST BE INSTALLED AS SHOWN.

SUPPORT PIECE, 2" X 4" X BOX HEIGHT MINUS 7" (AS REQD). NAIL TO VERTICAL PIECE W/2-10d NAILS. NOTE: WHEN A FILLER ASSEMBLY IS LOCATED IN AN OUTER STACK ON A 35" SIDE OF THE PALLET, "SUPPORT PIECES" MUST BE INSTALLED AS SHOWN.

FILLER ASSEMBLY

(FOR MINUS ONE BOX)