

APPENDIX 39A

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

CARTRIDGE, 4.2", PACKED 2 PER WOODEN BOX,
UNITIZED 48 BOXES PER 42" X 53" PALLET;
APPROX BOX SIZE 27"L X 11 $\frac{11}{16}$ " W X 7 $\frac{1}{4}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ^①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1315- 01-211-8411	C697	A	IV	1.1	E	3,174
00-007-3882	C699	A	IV	1.1	E	3,174
00-008-3188	C704	A	IV	1.1	E	3,174

REVISION

REVISION NO. 1, DATED MAY 1984, CONSISTS OF:

ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.

REVISION NO. 2, DATED MARCH 1986, CONSISTS OF:

1. ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.
2. CHANGING BOX DIMENSIONS.

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		DESIGNED BY <i>Diw</i>	CHECKED BY <i>gdn</i>	DRAWN BY <i>wrf/klw</i>
1	MAY 84	<i>GRS</i>	<i>w & Smet</i>	<i>w & Smet</i>
2	MAR 86	<i>John L. Boyd</i>	<i>John L. Boyd</i>	<i>John L. Boyd</i>
<small>APPROVED BY CHIEF OF COMMAND GENERAL, U.S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND</small> <small>U.S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND</small>				
U. S. ARMY DARCOM DRAWING MARCH 1983				
CLASS	DIVISION	DRAWING	FILE	
19	48	4116/ 39A	20PA 1002	

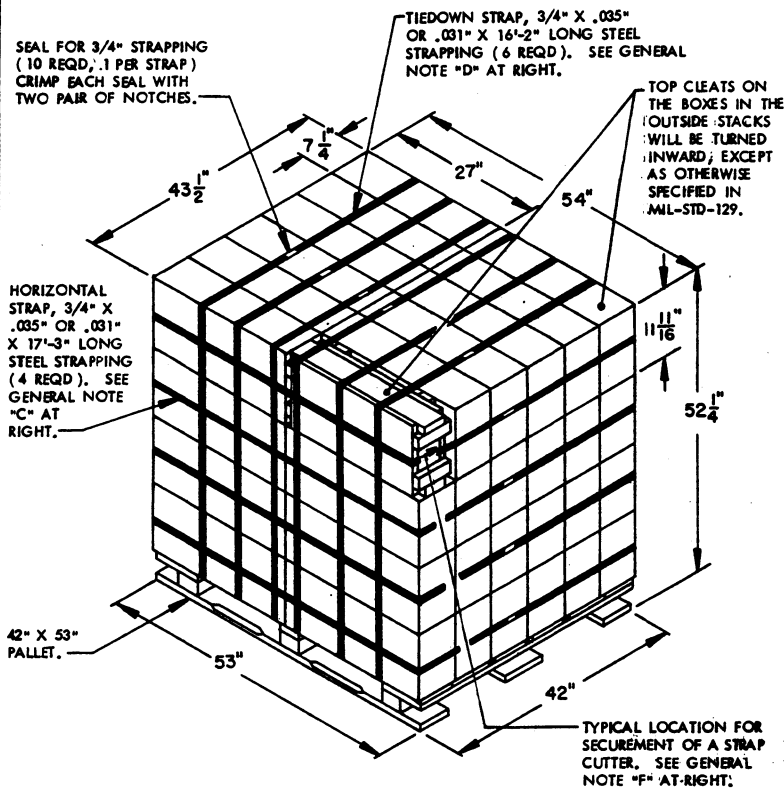
SEAL FOR 3/4" STRAPPING
(10 REQD.; 1 PER STRAP)
CRIMP EACH SEAL WITH
TWO PAIR OF NOTCHES.

TIEDOWN STRAP, 3/4" X .035"
OR .031" X 16'-2" LONG STEEL
STRAPPING (6 REQD.). SEE GENERAL
NOTE "D" AT RIGHT.

TOP CLEATS ON
THE BOXES IN THE
OUTSIDE STACKS
WILL BE TURNED
INWARD; EXCEPT
AS OTHERWISE
SPECIFIED IN
AML-STD-129.

HORIZONTAL
STRAP, 3/4" X
.035" OR .031"
X 17'-3" LONG
STEEL STRAPPING
(4 REQD.). SEE
GENERAL NOTE
"C" AT
RIGHT.

42" X 53"
PALLET.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

48 BOXES OF 4.2" CARTRIDGES (2 PER BOX) @ 64 LBS ----- 3,072 LBS (APPROX)
DUNNAGE ----- 12 LBS
PALLET ----- 90 LBS

TOTAL WEIGHT ----- 3,174 LBS (APPROX)
CUBE ----- 71.0 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 42" X 53" ----- 1 REQD ----- 90 LBS
STEEL STRAPPING, 3/4" ----- 166.00' REQD ----- 11.86 LBS
SEAL FOR 3/4" STRAPPING ----- 10 REQD ----- NIL

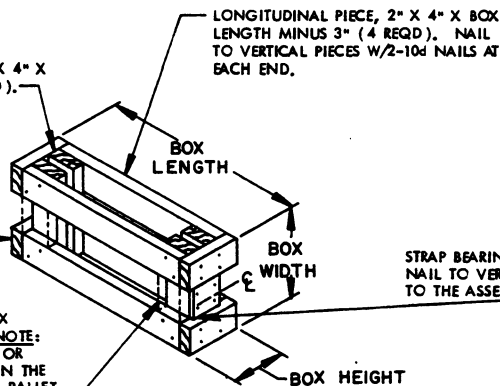
GENERAL NOTES

- 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. INSTALL EACH HORIZONTAL STRAP TO ENCIRCLE A LAYER OF BOXES ON THE PALLET AND TO BE LOCATED AS SHOWN. HORIZONTAL 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 HORIZONTAL STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING (AMC) DARCOM DRAWINGS ARE APPLICABLE FOR OUT-LOADING 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 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 4.2" CARTRIDGES 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, TWO TIEDOWN STRAPS MUST BE OMITTED AND TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 14'-3", AND ONE HORIZONTAL STRAP MUST BE OMITTED. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 40'-9/16", A GROSS UNIT WEIGHT OF 2,402 POUNDS, AND A UNIT CUBE OF 55.1 CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL INTER-MODAL FREIGHT CONTAINER, 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.

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

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

SUPPORT PIECE, 2" X 4" X
CUT-TO-FIT (2 REQD.). NOTE:
WHEN A FILLER ASSEMBLY OR
ASSEMBLY IS LOCATED ON THE
53" SIDE OR SIDES OF THE PALLET,
IT WILL REQUIRE SUPPORT PIECES
AS SHOWN.



FILLER ASSEMBLY

(FOR MINUS ONE BOX)

STRAP BEARING PIECE, 1" X 4" X BOX HEIGHT MINUS 3" (1 REQD.).
NAIL TO VERTICAL PIECES W/2-6d NAILS AT EACH END. STAPLE STRAP
TO THE ASSEMBLY.