

APPENDIX 156D

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

FUZE, POINT DETONATING, PACKED 50 PER
WOODEN BOX, UNITIZED 18 BOXES PER 35" X
45 $\frac{1}{2}$ " PALLET; APPROX BOX SIZE 18" L X
15 $\frac{7}{8}$ " W X 13 $\frac{1}{8}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ^①				WEIGHT
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	(LBS)
1390- 00-028-4898	N318	C	I	1.4	B	1,961

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).

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

DO NOT SCALE

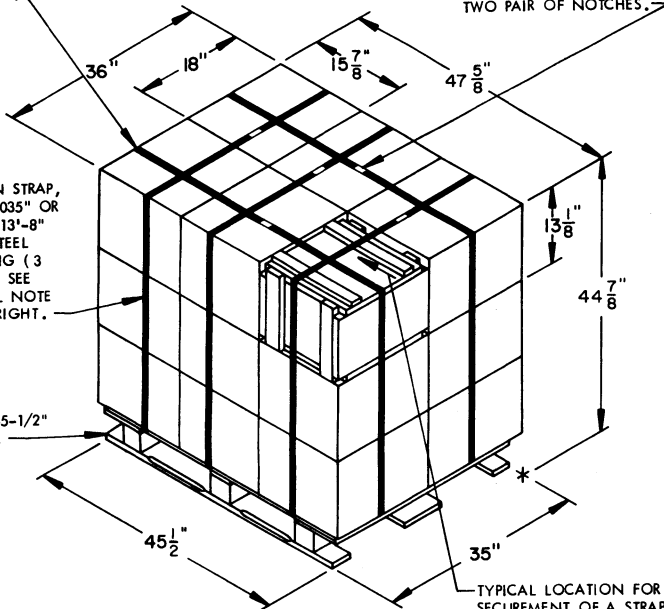
REVISIONS			
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			U. S. ARMY DARCOM DRAWING
			SEPTEMBER 1983
			CLASS DIVISION DRAWING FILE
			19 48 4116/ 156D 20PA 1002

LOAD STRAP, 3/4" X .035" OR
.031" X 15'-7" LONG STEEL
STRAPPING (2 REQD). SEE
GENERAL NOTE "C" AT
RIGHT.

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

TIEDOWN STRAP,
3/4" X .035" OR
.031" X 13'-8"
LONG STEEL
STRAPPING (3
REQD). SEE
GENERAL NOTE
"D" AT RIGHT.

35" X 45-1/2"
PALLET.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

TYPICAL LOCATION FOR
SECUREMENT OF A STRAP
CUTTER. SEE GENERAL
NOTE "F" AT RIGHT.

18 BOXES OF POINT DETONATING FUZES (50 PER BOX) @ 105 LBS	-----	1,890 LBS (APPROX)
DUNNAGE	-----	6 LBS
PALLET	-----	65 LBS

TOTAL WEIGHT	-----	1,961 LBS (APPROX)
CUBE	-----	44.5 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2"	-----	1 REQD	-----	65 LBS
STEEL STRAPPING, 3/4"	-----	72.17' REQD	-----	5.16 LBS
SEAL FOR 3/4" STRAPPING	-----	5 REQD	-----	NIL

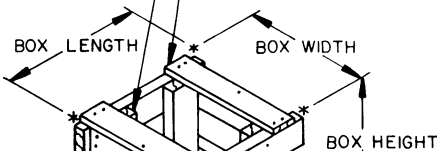
GENERAL NOTES

- 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 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 POINT DETONATING 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, 1 LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 11'-6", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 13'-5". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 31-3/4", A GROSS UNIT WEIGHT OF 1,330 LBS, AND A UNIT CUBE OF 31.5 CU FT. 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.

VERTICAL PIECE, 2" X 4" X
BOX HEIGHT MINUS 3/4"
(4 REQD).

TIE PIECE, 1" X 4" X BOX WIDTH (2 REQD). NAIL
TO LONGITUDINAL PIECES W/2-6d NAILS AT EACH
END AND TO LATERAL PIECE W/1-6d NAIL.



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

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

FILLER ASSEMBLY
(FOR MINUS ONE BOX)