

# APPENDIX 156M

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

FUZE, MECHANICAL TIME AND SUPERQUICK,  
PACKED 40 PER WOODEN BOX, UNITIZED 24  
BOXES PER 40" X 48" PALLET; APPROX BOX  
SIZE 16  $\frac{3}{4}$ " L X 12  $\frac{5}{8}$ " W X 12  $\frac{1}{4}$ " H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION				WEIGHT ( LBS )
NSN	DOD IC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1390-00-028-4915	N276	C	I	1.4	B	2,081

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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U. S. ARMY DARCOM DRAWING					
JULY 1980					
				CLASS	DIVISION
				DRAWING	FILE
				19	48
				4116 / 156M	20PA 1002

**DO NOT SCALE**

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

SPACER ASSEMBLY (1 REQD). SEE THE DETAIL BELOW. STAPLE TIEDOWN STRAP TO "SPACER ASSEMBLY".

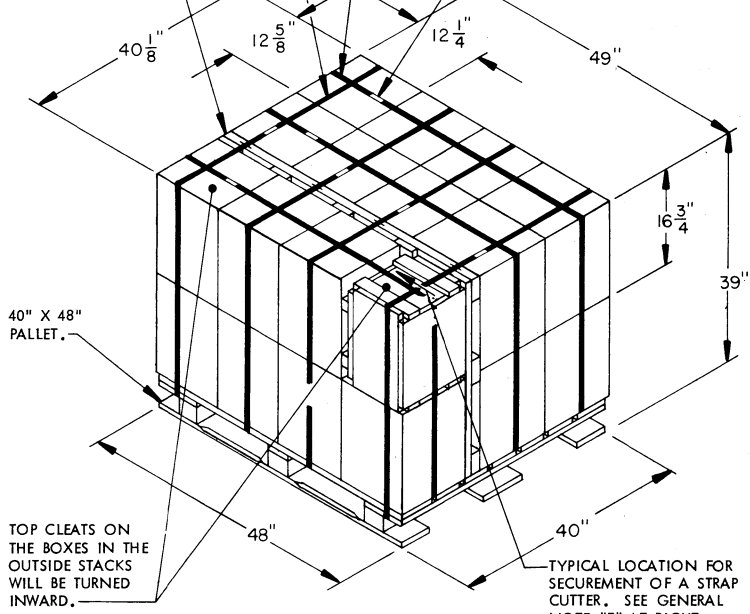
LOAD STRAP, 3/4" X .035" OR .031" X 14'-10" LONG STEEL STRAPPING (3 REQD). SEE GENERAL NOTE "C" AT RIGHT.

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

**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 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 19-48-4118-1-2-14-22PA1002
- 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 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.



**PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

24 BOXES OF FUZES (40 PER BOX) @ 82 LBS -----	1,968 LBS (APPROX)
DUNNAGE -----	33 LBS
PALLET -----	80 LBS
<b>TOTAL WEIGHT -----</b>	<b>2,081 LBS (APPROX)</b>
<b>CUBE -----</b>	<b>44.4 CU FT (APPROX)</b>

**BILL OF MATERIAL**

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	13.96	4.65
2" X 4"	12.25	8.17
NAILS	NO. REQD	POUNDS
6d (2")	30	0.18

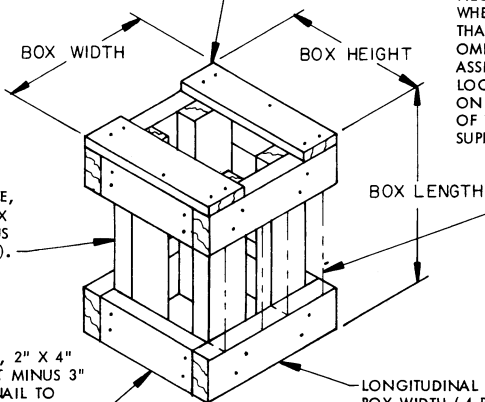
  

PALLET, 40" X 48" -----	1 REQD -----	80 LBS
STEEL STRAPPING, 3/4" -----	98,17' REQD -----	7,01, LBS
SEAL FOR 3/4" STRAPPING -----	7 REQD -----	NIL
STAPLE -----	4 REQD -----	NIL

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

SUPPORT PIECE, 2" X 4" X CUT-TO-FIT IN LENGTH (AS REQD). NAIL TO A VERTICAL PIECE W/2-10d NAILS. NOTE: WHEN A UNIT HAS MORE THAN FOUR (4) BOXES OMITTED, THE FILLER ASSEMBLY OR ASSEMBLIES LOCATED IN AN OUTER STACK ON THE 40" SIDE OR SIDES OF THE PALLET WILL REQUIRE SUPPORT PIECES AS SHOWN.

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

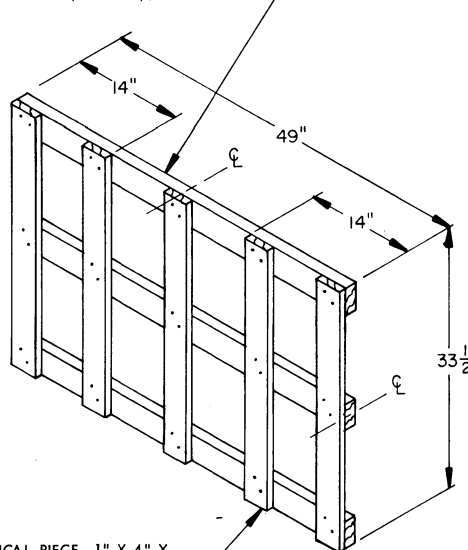


**FILLER ASSEMBLY**  
(FOR MINUS ONE BOX)

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

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

HORIZONTAL PIECE, 2" X 4" X 49" (3 REQD).



VERTICAL PIECE, 1" X 4" X 33-1/2" (5 REQD). NAIL TO HORIZONTAL PIECES W/2-6d NAILS AT EACH LOCATION.

**SPACER ASSEMBLY**  
(ONE REQD)