

APPENDIX 159D

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

IGNITER, ELECTRIC PRIMER, M63, PACKED 450
PER WOODEN BOX, UNITIZED 48 BOXES PER
35" X 45-1/2" PALLET; APPROX BOX SIZE
15-3/4" L X 9-7/16" W X 8" H

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

U.S. ARMY MATERIEL COMMAND DRAWING			
<small>APPROVED. U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND</small> <div style="font-family: cursive; font-size: 1.2em; margin-top: 5px;"> KW David A. Piskovik J. L. ... </div> <small>SMCAR-ESK AMSMC-TMD</small>	<small>DRAFTSMAN</small> S. WILSON	<small>TECHNICIAN</small> 	<small>ENGINEER</small> <div style="font-family: cursive; font-size: 1.2em; margin-top: 5px;">L. Fiffer</div>
<small>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</small> <div style="font-family: cursive; font-size: 1.5em; margin-top: 5px;"> Alan L. Byrd </div> <small>U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL</small>	<small>EVALUATION DIVISION</small> <div style="font-family: cursive; font-size: 1.2em; margin-top: 5px;">Tfm</div>	<small>STORAGE & OUTLOADING DIVISION</small> <div style="font-family: cursive; font-size: 1.2em; margin-top: 5px;">W. ...</div>	<small>LOGISTICS ENGINEERING OFFICE</small> <div style="font-family: cursive; font-size: 1.2em; margin-top: 5px;">W. Ernst</div>
FEBRUARY 1990			
<small>CLASS</small>	<small>DIVISION</small>	<small>DRAWING</small>	<small>FILE</small>
19	48	4116/ 159D	20PA 1002

DO NOT SCALE

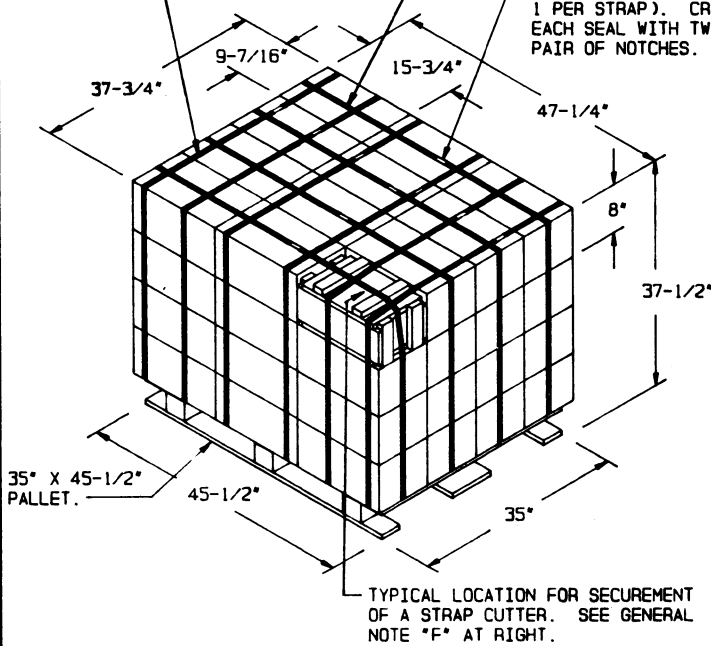
PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION [●]				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1390-01-123-0006	N700	C	III	1.4	S	3.675

● 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).

TIEDOWN STRAP, 3/4" X .035" OR .031" X 12'-9" LONG STEEL STRAPPING (6 REQD). SEE GENERAL NOTE "D" AT RIGHT.

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

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



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

48 BOXES OF IGNITERS (450 PER BOX) AT 75 LBS -- 3,600 LBS (APPROX)
 DUNNAGE ----- 10 LBS
 PALLET ----- 65 LBS

TOTAL WEIGHT ----- 3,675 LBS (APPROX)
 CUBE ----- 38.7 CU FT (APPROX)

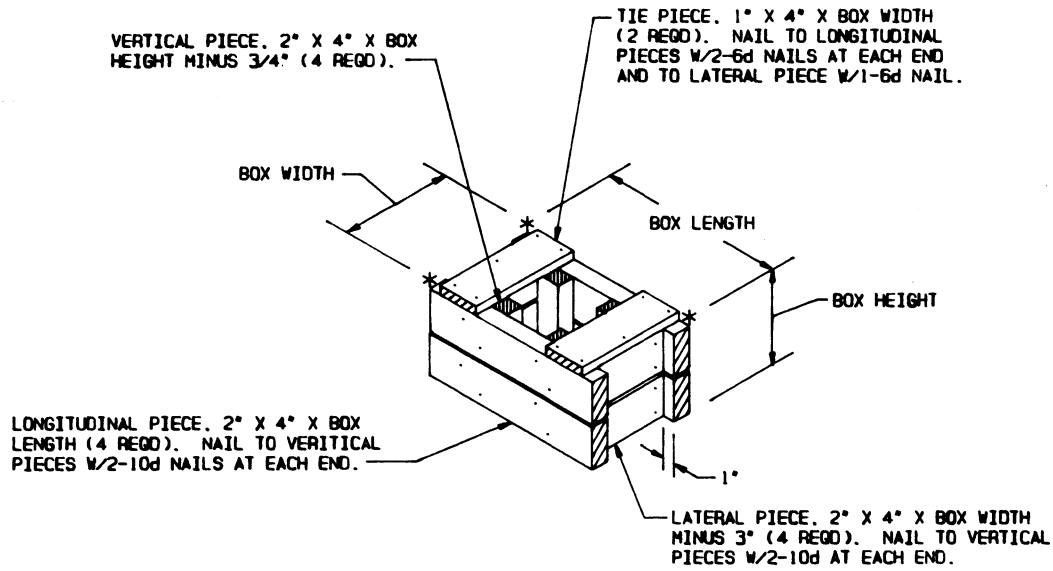
BILL OF MATERIAL

PALLET, 35" X 45-1/2"	1 REQD	65 LBS
STEEL STRAPPING, 3/4"	133.83' REQD	9.56 LBS
SEAL FOR 3/4" STRAPPING	10 REQD	NIL

GENERAL NOTES

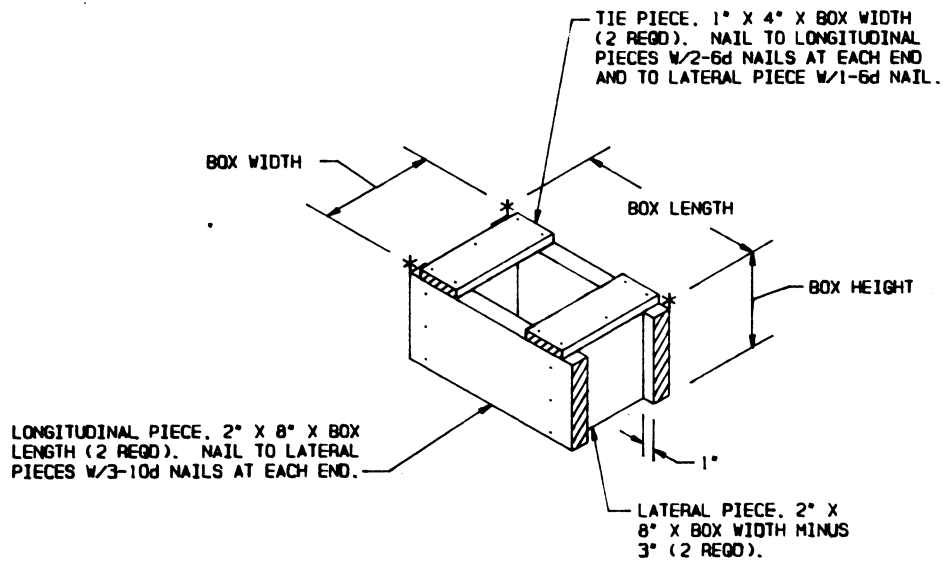
- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN 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. THE LOAD STRAPS MUST BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK/STRINGER BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN. TIEDOWN STRAPS MUST BE TENSIONED AND SEALED PRIOR TO LOAD STRAPS.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

CARLOADING	---	19-48-4115-5PA1002
TRUCKLOADING	---	19-48-4117-11PA1003
STORAGE	-----	19-48-4118-1-2-3-4-14-22PA1002
COMMERCIAL CONTAINER	-----	19-48-4153-15PA1002
MILVAN	-----	19-48-4166-15PA1003
- F. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE AMC 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 IGNITERS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 2. PROVIDED THE BOX PACK DOES NOT VARY FROM WHAT IS DELINEATED HEREIN. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAT 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 ITEMS COVERED BY THIS APPENDIX.
- K. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.



FILLER ASSEMBLY

(FOR MINUS BOX)



ALTERNATIVE FILLER ASSEMBLY

(FOR MINUS ONE BOX)