

# APPENDIX 121T

## UNITIZATION PROCEDURES FOR COMPLETE ROUNDS PACKED IN CYLINDRICAL METAL CONTAINERS ON 4-WAY ENTRY PALLETS

**CAP, BLASTING, NON-ELECTRIC, 10 FT SHOCK  
TUBE, M16, PACKED 60 PER WOODEN BOX, UNIT-  
IZED 9 BOXES PER 40" X 48" PALLET; APPROX BOX  
SIZE 42-3/4" L X 13-5/8" W X 14" H**

**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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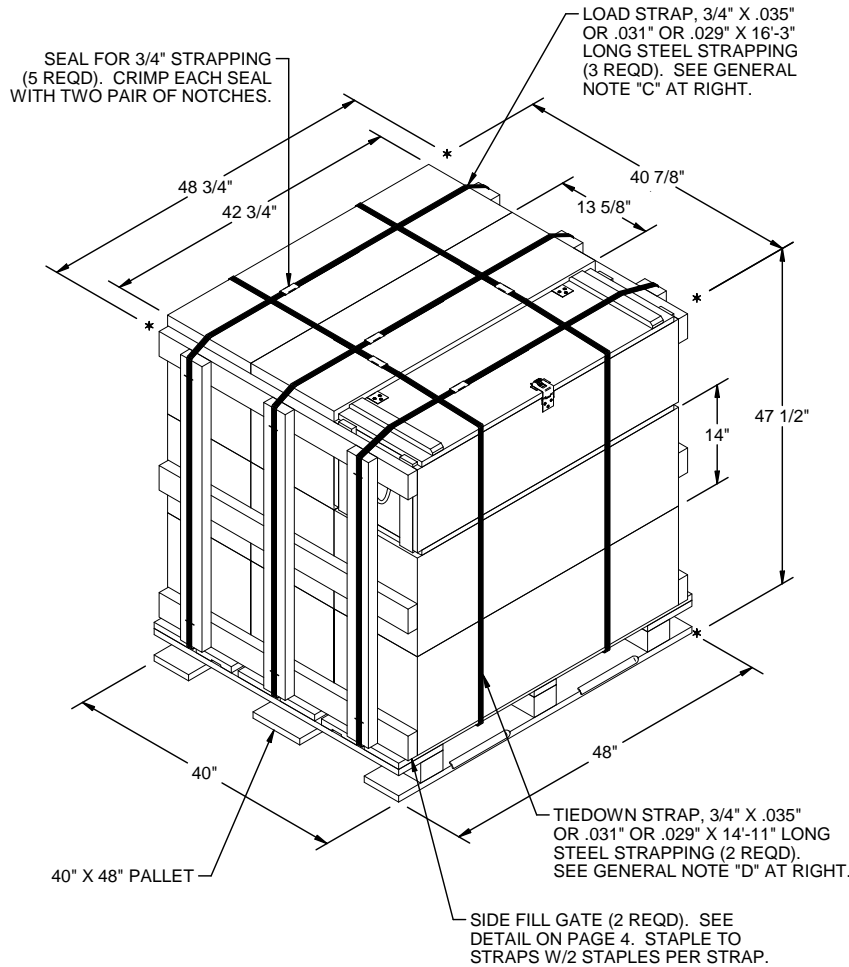
### U.S. ARMY MATERIEL COMMAND DRAWING

<p><b>APPROVED U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND</b></p> <p>REHMSTEDT.MA RK.J.1230548400</p> <p><small>Digitally signed by REHMSTEDT.MARK.J.1230548400 DN: cn=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cni=REHMSTEDT.MARK.J.1230548400 Date: 2013.03.11 07:12:19 -05'00'</small></p> <p style="text-align: right;"><b>RDAR-EIL-TP</b></p>	<p><b>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</b></p>									
<p><b>APPROVED U.S. ARMY JOINT MUNITIONS COMMAND</b></p> <p>CASILLAS.GILBE RT.J.1230393644</p> <p><small>Digitally signed by CASILLAS.GILBERT.J.1230393644 DN: cn=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cni=CASILLAS.GILBERT.J.1230393644 Date: 2013.04.01 10:17:56 -05'00'</small></p> <p style="text-align: right;"><b>AMSJM-LIT</b></p>	<p><b>DO NOT SCALE</b></p>		<p><b>MARCH 2012</b></p>							
<p><b>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</b></p> <p>SHIMP.UPTON .R.1231257183</p> <p><small>Digitally signed by SHIMP.UPTON.R.1231257183 DN: cn=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cni=SHIMP.UPTON.R.1231257183 Date: 2013.04.01 15:27:25 -05'00'</small></p> <p style="text-align: right;"><b>U.S. ARMY DEFENSE AMMUNITION CENTER</b></p>		<p><b>TRANSPORTATION ENGINEERING DIVISION</b></p> <p>FIEFFER.LAUR A.A.1230375727</p> <p><small>Digitally signed by FIEFFER.LAURA.A.1230375727 DN: cn=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cni=FIEFFER.LAURA.A.1230375727 Date: 2012.03.13 07:35:35 -05'00'</small></p>	<p><b>BASIC</b></p> <p>MADLINE BANKS</p>	<p><b>REV.</b></p>	<p><b>TESTED</b></p>		<p><b>CLASS</b></p> <p>19</p>	<p><b>DIVISION</b></p> <p>48</p>	<p><b>DRAWING</b></p> <p>4116/ 121T</p>	<p><b>FILE</b></p> <p>20PA1002</p>

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1375-01-449-9601	MN39	1. 4	S	736

\*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).

**GENERAL NOTES**



**PALLET UNIT**  
SEE GENERAL NOTE "B" AT RIGHT.

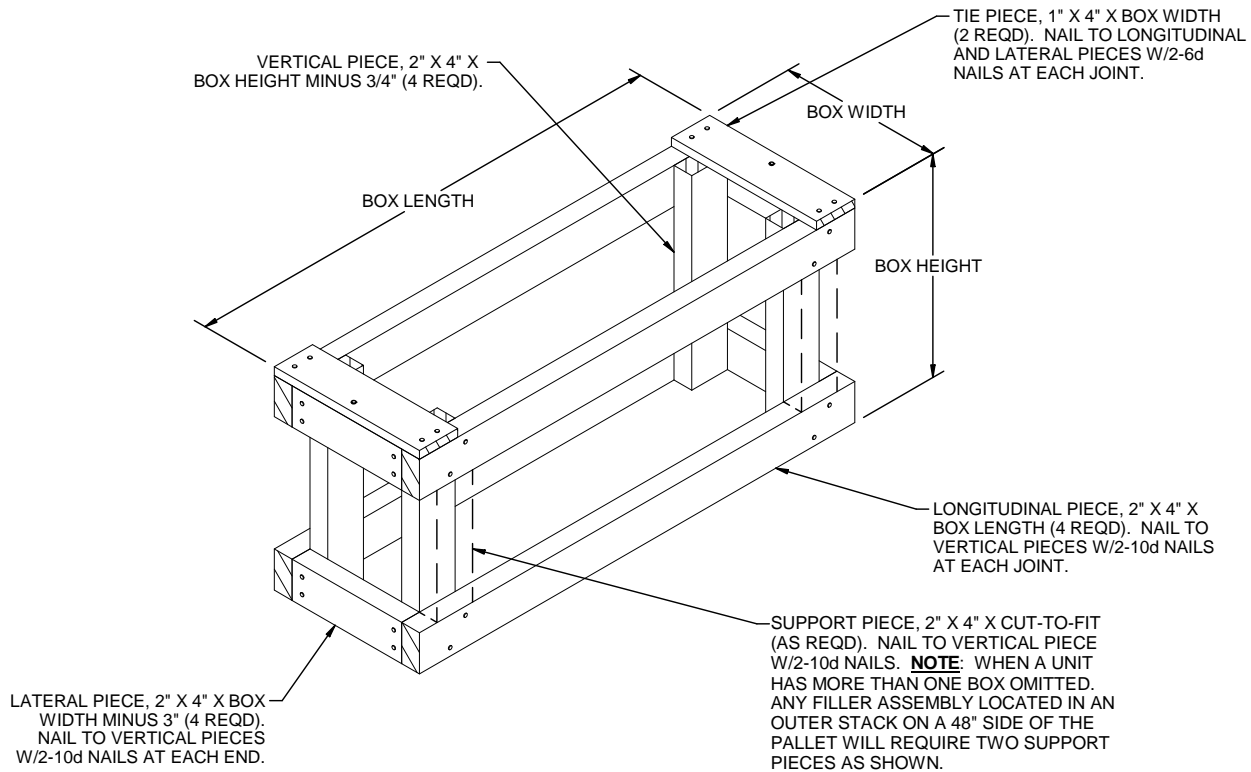
9 BOXES OF BLASTING CAP (60 PER BOX) @ 66 LBS	594 LBS
DUNNAGE	62 LBS
PALLET	80 LBS

TOTAL WEIGHT	736 LBS (APPROX)
CUBE	54.8 CU FT (APPROX)

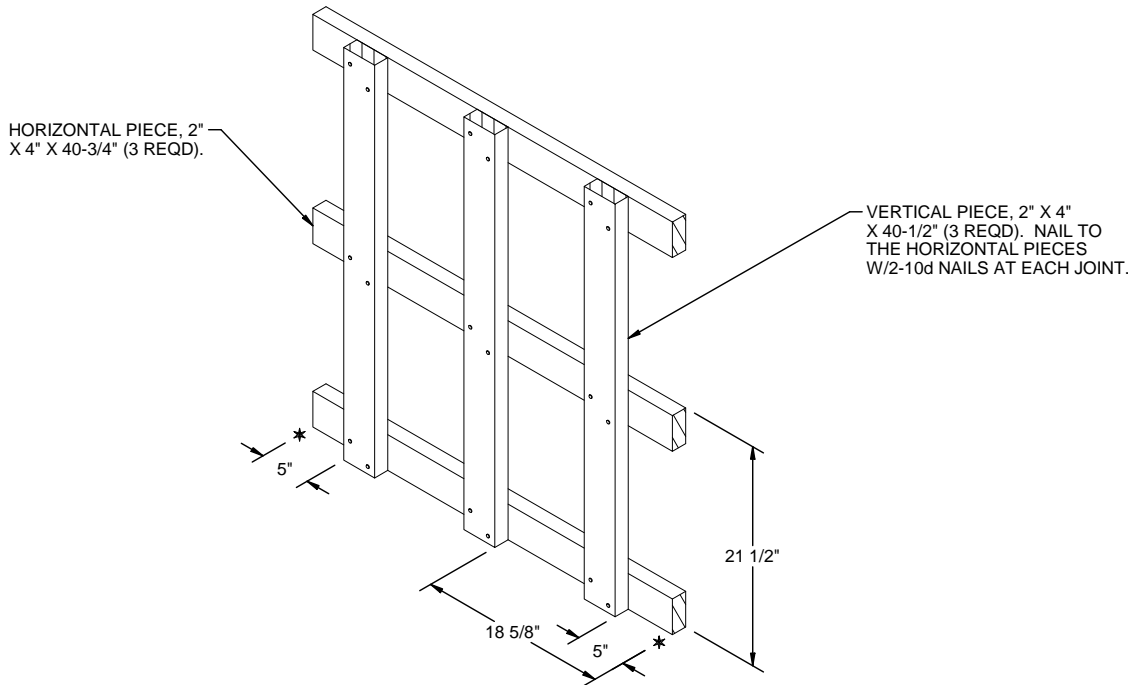
BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	40.63	27.09
NAI LS	NO. REQD	POUNDS
10d (3")	36	1/2
PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 3/4"	78.57' REQD	7.02 LBS
SEAL FOR 3/4" STRAPPING	5 REQD	NIL
STAPLE, 1-17/32" X 3/4"	12 REQD	NIL

- 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 THE 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 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
END OPENING ISO CONTAINER	- - - -	19-48-4153-15PA1002
MILVAN	- - - -	19-48-4166-15PA1003
SIDE OPENING ISO CONTAINER	- - - -	19-48-4267-15PA1009
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- G. 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 PAGE 2, 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.
- H. THE STYLE 1 PALLET DELINEATED IN THE DETAIL AT LEFT NEED NOT HAVE CHAMFERS OR STRAP SLOTS AS SPECIFIED WITHIN MILITARY SPECIFICATION MIL-DTL-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES.
- K. FOR DETAILS OF THE MIL-DTL-2427 WOODEN BOX DEPICTED ABOVE SEE DRAWING 12997521. **CAUTION:** THE PROCEDURES DEPICTED HEREIN WILL NOT BE USED TO UNITIZE THE FIBERBOARD OUTER PACK (ARDEC DRAWING 12983047) WITHOUT THE WOODEN OVERPACK.



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



**SIDE FILL GATE**

THIS GATE IS DESIGNED FOR USE WITH A PALLET UNIT LOADED THREE BOXES HIGH. FOR A TWO HIGH LOADED PALLET, ELIMINATE THE CENTER HORIZONTAL PIECE AND REDUCE THE HEIGHT OF THE VERTICAL PIECE TO 30-1/2". FOR A ONE HIGH LOADED PALLET, ELIMINATE THE CENTER HORIZONTAL PIECE AND REDUCE THE HEIGHT OF THE VERTICAL PIECES TO 16".