

APPENDIX 109C

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

**SIMULATOR, PYROTECHNIC, MAIN TANK GUN, M30,
OR SIMULATOR, PYROTECHNIC, DIRECT/INDIRECT
FIRE CUE, WITH STARS, M31A1, PACKED 30 PER
FIBERBOARD BOX, 10 FIBERBOARD BOXES PER
M548 METAL BOX, UNITIZED 24 BOXES PER 40" X
48" PALLET; APPROX BOX SIZE 18-19/32" L X
8-19/64" W X 14-19/32" 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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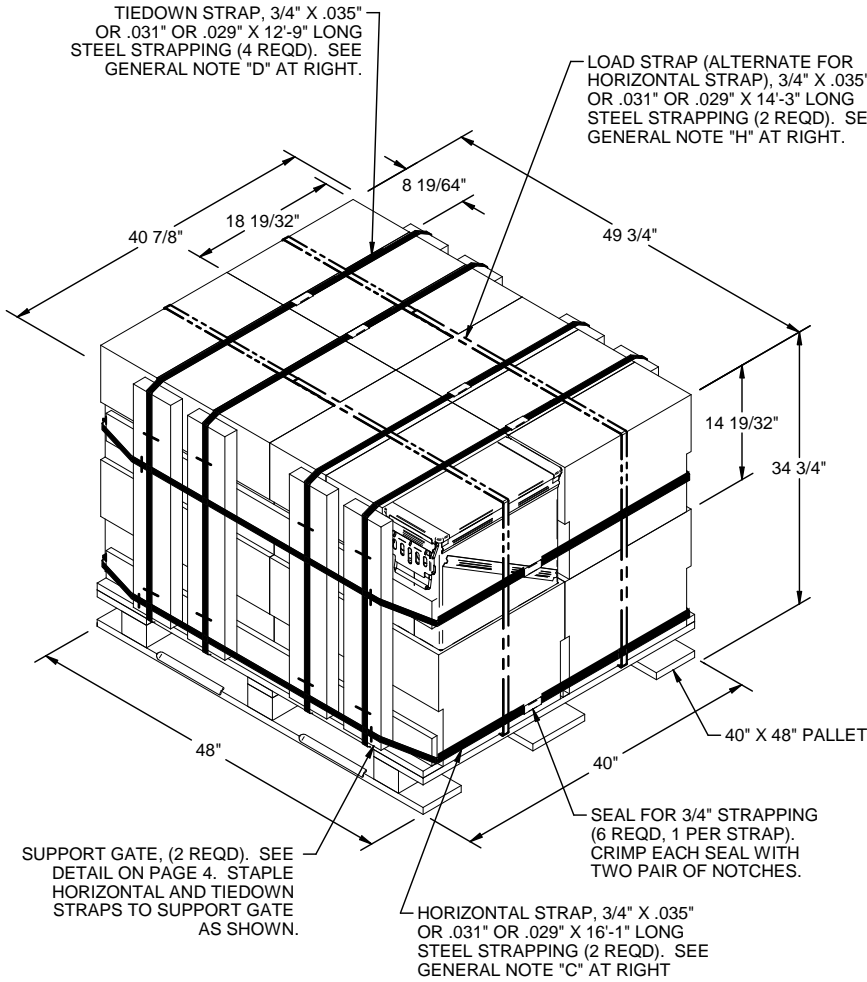
U.S. ARMY MATERIEL COMMAND DRAWING

<p>APPROVED, U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND</p> <p>REHMSTEDT.MA RK.J.1230548400</p> <p style="font-size: small;">Digitally signed by REHMSTEDT.MARK.J.1230548400 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA c=US, email=REHMSTEDT.MARK.J.1230548400 Date: 2010.11.26 11:48:12 -0500</p> <p style="text-align: right;">RDAR-EIL-TP</p>	<p>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.</p>		MAY 2010				
<p>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</p> <p>CASILLAS.GILBE RT.J.1230393644</p> <p style="font-size: small;">Digitally signed by CASILLAS.GILBERT.J.1230393644 DN: cn=US, o=U.S. Government, ou=DoD, ou=USA, ou=CASILLAS.GILBERT.J.1230393644 Date: 2010.12.16 12:28:08 -0500</p> <p style="text-align: right;">AMSJM-LIT</p>	<p>DO NOT SCALE</p>	<p>ENGINEER OR TECHNICIAN</p>	<p>BASIC REV.</p>	<p>MADELINE BANKS</p>			
<p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p>CARNEY.GARY.BU RTON.1038708038</p> <p style="font-size: small;">Digitally signed by CARNEY.GARY.BURTON.1038708038 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=CARNEY.GARY.BURTON.1038708038 Date: 2010.12.17 08:08:51 -0500</p> <p style="text-align: center;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	<p>TRANSPORTATION ENGINEERING DIVISION</p> <p>FIEFFER.LAURA .A.1230375727</p> <p style="font-size: small;">Digitally signed by FIEFFER.LAURA.A.1230375727 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FIEFFER.LAURA.A.1230375727 Date: 2010.04.21 10:38:17 -0500</p>	<p>VALIDATION ENGINEERING DIVISION</p> <p>BARICKMAN.P HILIP.W.12302 02202</p> <p style="font-size: small;">Digitally signed by BARICKMAN.PHILIP.W.1230202202 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=BARICKMAN.PHILIP.W.1230202202 Date: 2010.04.21 16:32:05 -0500</p>	<p>TESTED</p>	<p>CLASS</p>	<p>DIVISION</p>	<p>DRAWING</p>	<p>FILE</p>
	<p>19</p>	<p>48</p>	<p>4116/ 109C</p>	<p>20PA1002</p>			

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1370-				
01-568-3114	LA06	1.4	G	1,073
01-568-3120	LA07	1.4	G	1,097

*HAZARD AND 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



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 THE HORIZONTAL STRAP TO ENCIRCLE A LAYER OF BOXES ON THE PALLET AND TO BE ALIGNED WITH THE HORIZONTAL PIECES OF THE "SUPPORT GATE" AS SHOWN. THE HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.

D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE ALIGNED WITH THE VERTICAL PIECES OF THE "SUPPORT GATE" AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE HORIZONTAL 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 SIMULATORS 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. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. 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 AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.

J. THE STYLE 1 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. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES.

L. FOR DETAILS OF THE M548 METAL BOX SEE ARDEC DRAWING 13023584 OR 13023590.

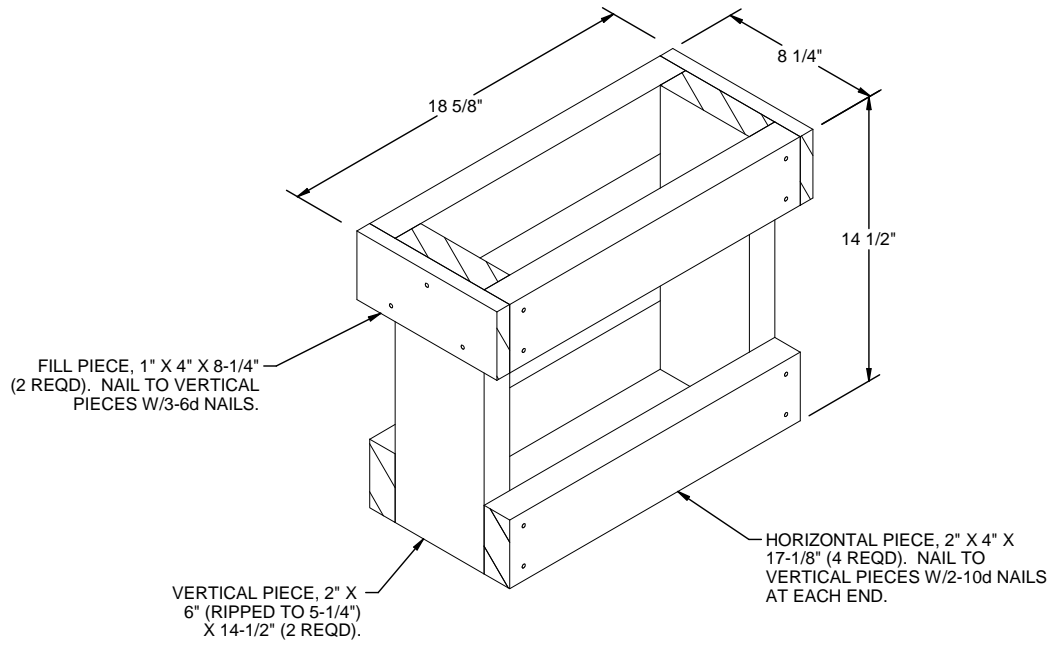
PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

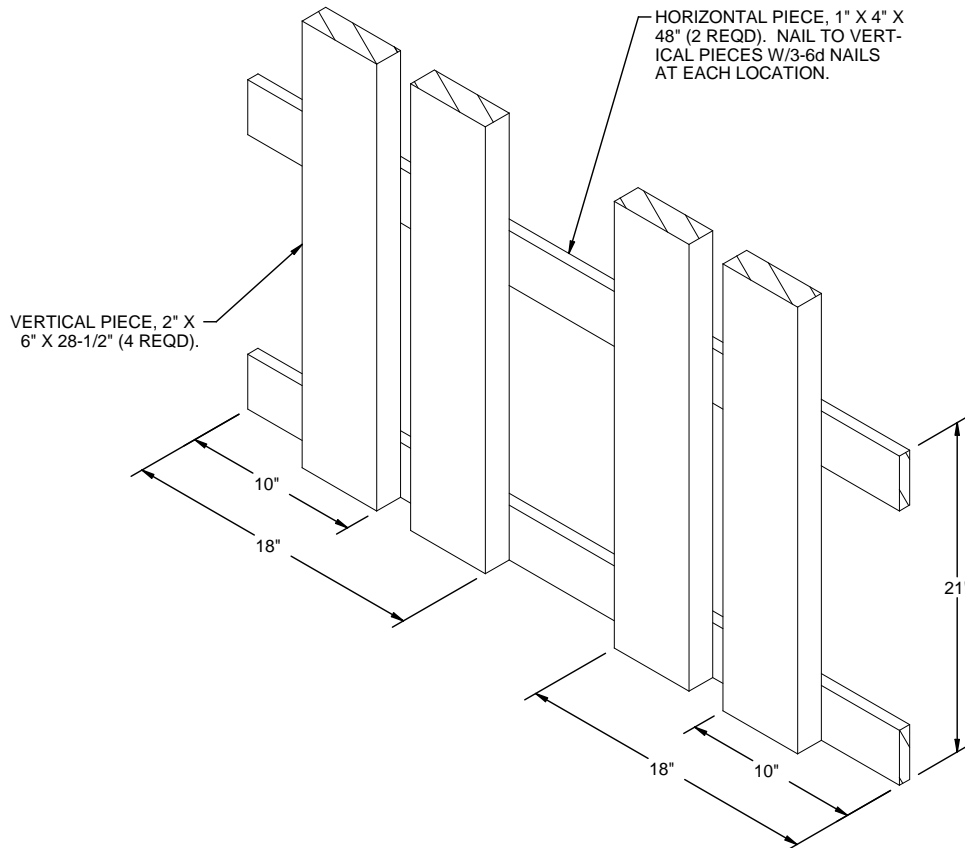
24 BOXES OF SIMULATORS (300 PER BOX) @ 40 LBS	960 LBS
DUNNAGE	57 LBS
PALLET	80 LBS
TOTAL WEIGHT	1,097 LBS (APPROX)
CUBE	40.9 CU FT (APPROX)

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	16.00	5.33
2" X 6"	19.00	19.00
NAILS		POUNDS
6d (2")	48	0.33
PALLET, 40" X 48" - - - - - 1 REQD - - - - - 80 LBS		
STEEL STRAPPING, 3/4" - - 83.29' REQD - - - - - 7.44 LBS		
SEAL FOR 3/4" STRAPPING - - - 6 REQD - - - - - NIL		
STAPLE - - - - - 24 REQD - - - - - NIL		



FILLER ASSEMBLY
(FOR MINUS ONE BOX)



SUPPORT GATE
(2 REQD)