

# APPENDIX 71

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

**FUZE, GRENADE, HAND, M213, OR SMOKE POT,  
M208, OR GRENADE, HAND, PRACTICE, M228,  
PACKED VARIOUS QUANTITIES PER WIREBOUND  
BOX, UNITIZED 12 BOXES PER 40" X 48" PALLET;  
APPROX BOX SIZE 26-3/8" L X 18-3/16" W X  
14-5/32" 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><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, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=REHMSTEDT.MARK.J.1230548400 Date: 2015.04.21 21:43:22 -05'00'</small></p> <p style="text-align: right;"><b>RDAR-EIL-TP</b></p>		<p><b>CAUTION: VERIFY PRIOR TO USE AT <a href="https://mhp.redstone.army.mil">HTTPS://MHP.REDSTONE.ARMY.MIL</a> 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>RUS.ALLEN.J.1 230354282</p> <p><small>Digitally signed by RUS.ALLEN.J.1230354282 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=RUS.ALLEN.J.1230354282 Date: 2015.05.27 12:55:29 -05'00'</small></p> <p style="text-align: right;"><b>AMSJM-LIT</b></p>		<p><b>DO NOT SCALE</b></p>		<p><b>JULY 1979</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, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=SHIMP.UPTON.R.1231257183 Date: 2015.05.28 10:29:44 -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.LAURA .A.1230375727</p> <p><small>Digitally signed by FIEFFER.LAURA.A.1230375727 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=FIEFFER.LAURA.A.1230375727 Date: 2011.10.25 15:33:18 -05'00'</small></p>		<p><b>REVISION NO. 3</b></p> <p style="text-align: right;"><b>MAY 2015</b></p>	
<p><b>VALIDATION ENGINEERING DIVISION</b></p> <p>BARICKMAN. PHILIP.W.123 0202202</p> <p><small>Digitally signed by BARICKMAN.PHILIP.W.1230202202 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=BARICKMAN.PHILIP.W.1230202202 Date: 2011.10.26 10:27:51 -05'00'</small></p>		<p><b>TESTED</b></p>		<p><b>SEE THE REVISION LISTING ON PAGE 2</b></p>	
<p><b>ENGINEERING DIRECTORATE</b></p> <p>BEAVER.JERRY .W.1230949952</p> <p><small>Digitally signed by BEAVER.JERRY.W.1230949952 DN: cn=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, ou=BEAVER.JERRY.W.1230949952 Date: 2011.10.26 15:15:30 -05'00'</small></p>		<p><b>CLASS</b></p> <p style="text-align: center;"><b>19</b></p>		<p><b>DIVISION</b></p> <p style="text-align: center;"><b>48</b></p>	
<p><b>ENGINEERING DIRECTORATE</b></p>		<p><b>DRAWING</b></p> <p style="text-align: center;"><b>4116/ 71</b></p>		<p><b>FILE</b></p> <p style="text-align: center;"><b>20PA1002</b></p>	

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1330-				
00-182-3570	G877	1. 1	B	1, 167
00-182-3590	G877	1. 1	B	1, 167
01-591-8976	G877	1. 1	B	1, 167
01-595-5043	G877	1. 1	B	1, 167
00-168-5502	G878	1. 4	B	1, 167
01-567-6575	G878	1. 4	B	1, 167
01-576-4241	G878	1. 4	B	1, 263
1365-				
01-564-8799	K885	1. 4	S	1, 263

\*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).

### REVISIONS

REVISION NO. 1, DATED SEPTEMBER 1984, CONSISTS OF:

ADDING BOX MARKING NOTE.

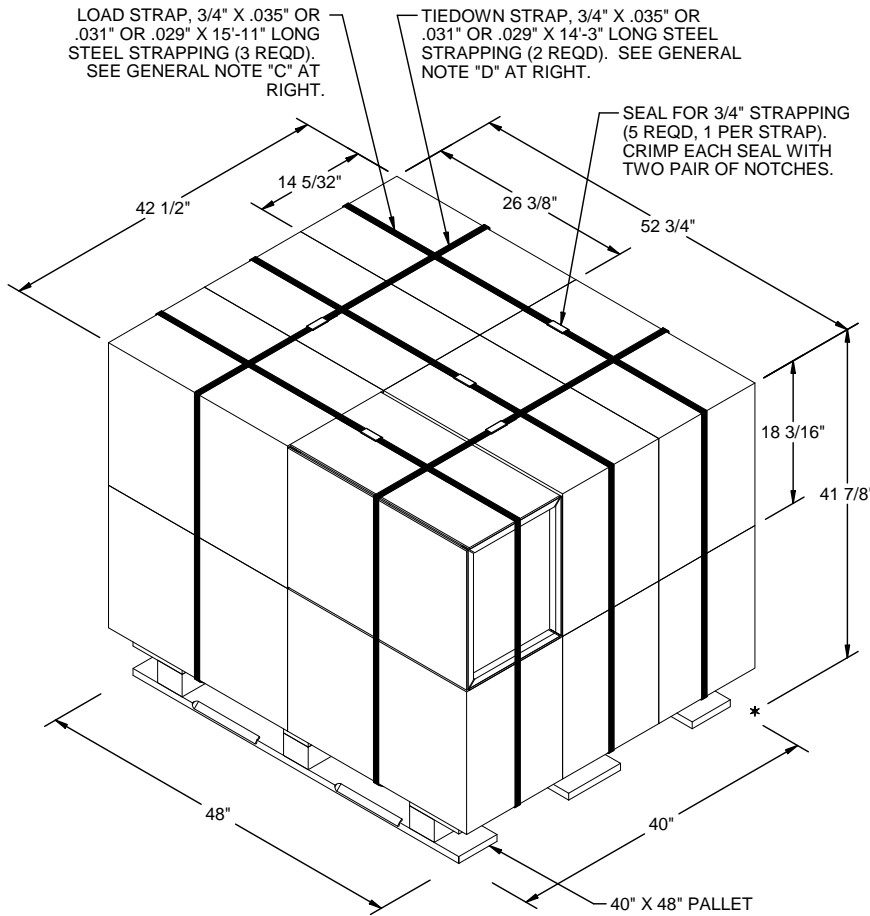
REVISION NO. 2, DATED JANUARY 1995, CONSISTS OF:

1. CHANGING BOX SIZE.
2. CHANGING WEIGHT FOR NSN ON "PALLET UNIT DATA" CHART.
3. ADDING NSN TO "PALLET UNIT DATA" CHART.

REVISION NO. 3, DATED MAY 2015, CONSISTS OF CHANGES PER ECP R08K3010:

1. UPDATING ITEM NOMENCLATURE ON TITLE PAGE.
2. ADDING NSNS TO "PALLET UNIT DATA" CHART.
3. CHANGING BOX SIZE.

**GENERAL NOTES**



**PALLET UNIT**

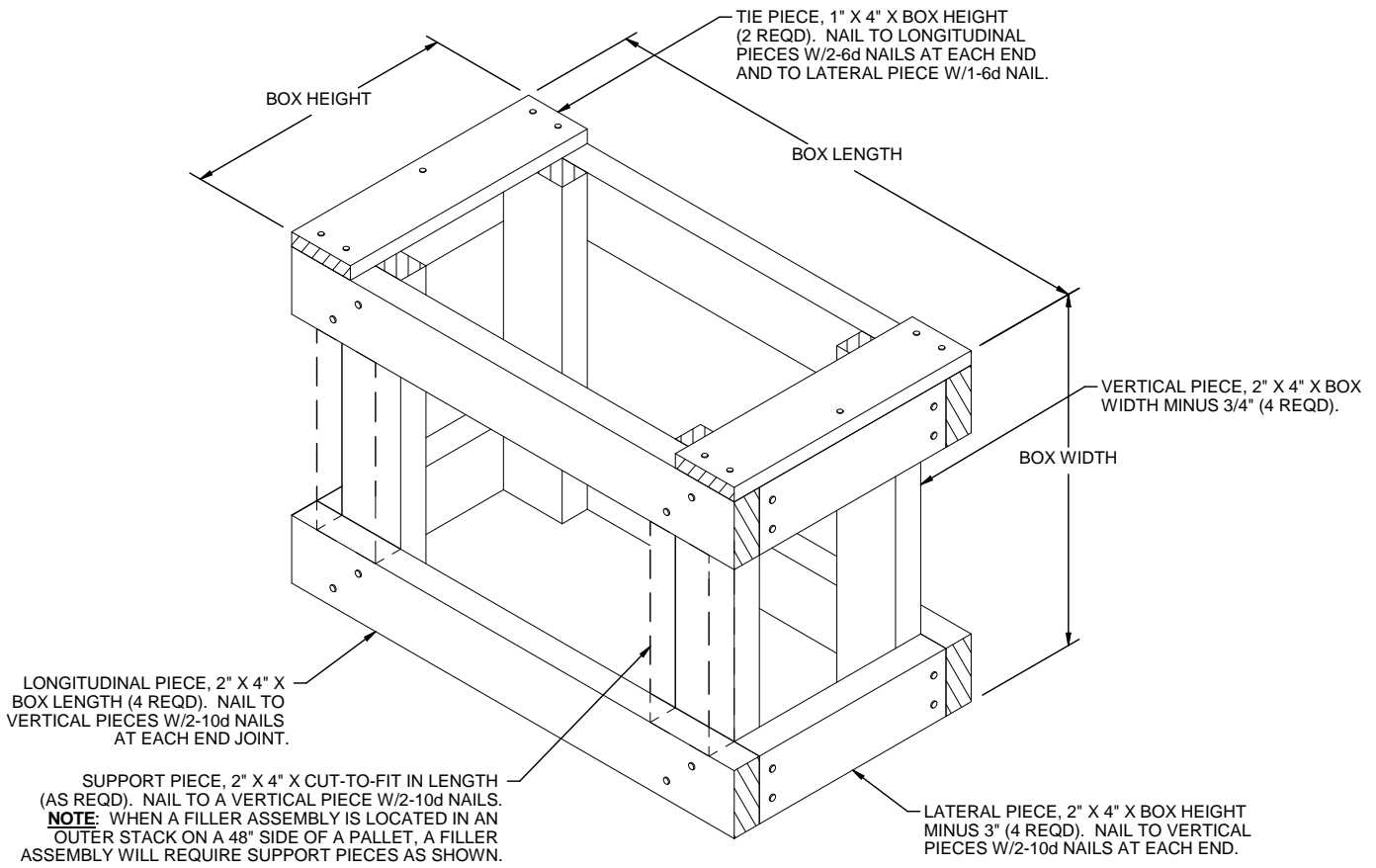
SEE GENERAL NOTE "B" AT RIGHT.

12 BOXES OF FUZES (360 PER BOX) @ 98 LBS	-----	1,176 LBS
DUNNAGE	-----	7 LBS
PALLET	-----	80 LBS
<b>TOTAL WEIGHT</b>	-----	<b>1,263 LBS (APPROX)</b>
<b>CUBE</b>	-----	<b>54.3 CU FT (APPROX)</b>

**BILL OF MATERIAL**

PALLET, 40" X 48"	-----	1 REQD	-----	80 LBS
STEEL STRAPPING, 3/4"	-----	76.25' REQD	-----	6.81 LBS
SEAL FOR 3/4" STRAPPING	-----	5 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 REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- G. 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 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. DUE TO BOX ORIENTATION ON THE PALLET, NOT ALL PERTINENT MARKINGS MAY BE VISIBLE FROM THE SIDES OF THE PALLET. ADDITIONAL IDENTIFICATION MARKINGS WILL BE APPLIED ON THE BOTTOM OF THE BOXES IN THE OUTWARD STACKS AS PRESCRIBED IN MIL-STD-129.
- J. 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.
- K. FOR DETAILS OF THE WIREBOUND BOX SEE ARDEC DRAWING 9251665 OR 13023613.



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