

APPENDIX 121W

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

**DUMMY CAP, BLASTING, NON-ELECTRIC, M32,
PACKED 60 PER FIBERBOARD BOX, UNITIZED 48
BOXES PER 40" X 48" PALLET; APPROX BOX SIZE
20-1/2" L X 10-1/8" W X 5-7/8" 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

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<p>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</p> <p>RUS.ALLEN.J.1230354282</p> <p><small>Digitally signed by RUS.ALLEN.J.1230354282 DN: c=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=RUS.ALLEN.J.1230354282 Date: 2016.12.15 08:59:58 -06'00'</small></p> <p style="text-align: right;">AMSJM-LIT</p>		<p>DO NOT SCALE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DESIGN ENGINEER</td> <td style="width: 10%;">BASIC</td> <td colspan="2">SPENCER HOVEY</td> </tr> <tr> <td></td> <td>REV.</td> <td colspan="2">SPENCER HOVEY</td> </tr> </table>		DESIGN ENGINEER	BASIC	SPENCER HOVEY			REV.	SPENCER HOVEY			
DESIGN ENGINEER	BASIC	SPENCER HOVEY											
	REV.	SPENCER HOVEY											
<p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p>SHIMP.UPTON.R.1231257183</p> <p><small>Digitally signed by SHIMP.UPTON.R.1231257183 DN: c=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=SHIMP.UPTON.R.1231257183 Date: 2016.12.15 13:06:40 -06'00'</small></p> <p style="text-align: right;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>		<p>ENGINEERING DIVISON</p> <p>FIEFFER.LAUR A.A.1230375727</p> <p><small>Digitally signed by FIEFFER.LAURA.A.1230375727 DN: c=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FIEFFER.LAURA.A.1230375727 Date: 2016.10.31 13:48:29 -05'00'</small></p> <p>TEST ENGINEER</p> <p>FELICIANO.AD IN.1259200373</p> <p><small>Digitally signed by FELICIANO.ADIN.1259200373 DN: c=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FELICIANO.ADIN.1259200373 Date: 2016.11.07 14:28:16 -06'00'</small></p> <p>TEST REPORT</p> <p style="text-align: center;">NA</p> <p>EXPLOSIVE SAFETY DIRECTORATE</p> <p>TIRONE.JOSEPH.ANDREW.1026683749</p> <p><small>Digitally signed by TIRONE.JOSEPH.ANDREW.1026683749 DN: c=US, ou=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=TIRONE.JOSEPH.ANDREW.1026683749 Date: 2016.11.07 15:47:51 -06'00'</small></p>											
		<p>MARCH 2014</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">REVISION NO. 1</td> <td style="width: 50%;">NOVEMBER 2016</td> </tr> </table> <p style="text-align: center;">SEE THE REVISION LISTING ON PAGE 2</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">CLASS</td> <td style="width: 12.5%;">DIVISION</td> <td style="width: 12.5%;">DRAWING</td> <td style="width: 12.5%;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 121W</td> <td style="text-align: center;">20PA1002</td> </tr> </table>		REVISION NO. 1	NOVEMBER 2016	CLASS	DIVISION	DRAWING	FILE	19	48	4116/ 121W	20PA1002
REVISION NO. 1	NOVEMBER 2016												
CLASS	DIVISION	DRAWING	FILE										
19	48	4116/ 121W	20PA1002										

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATI-BILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1375-01-411-6346	MN37	-----I NERT-----		538

*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).

REVISION

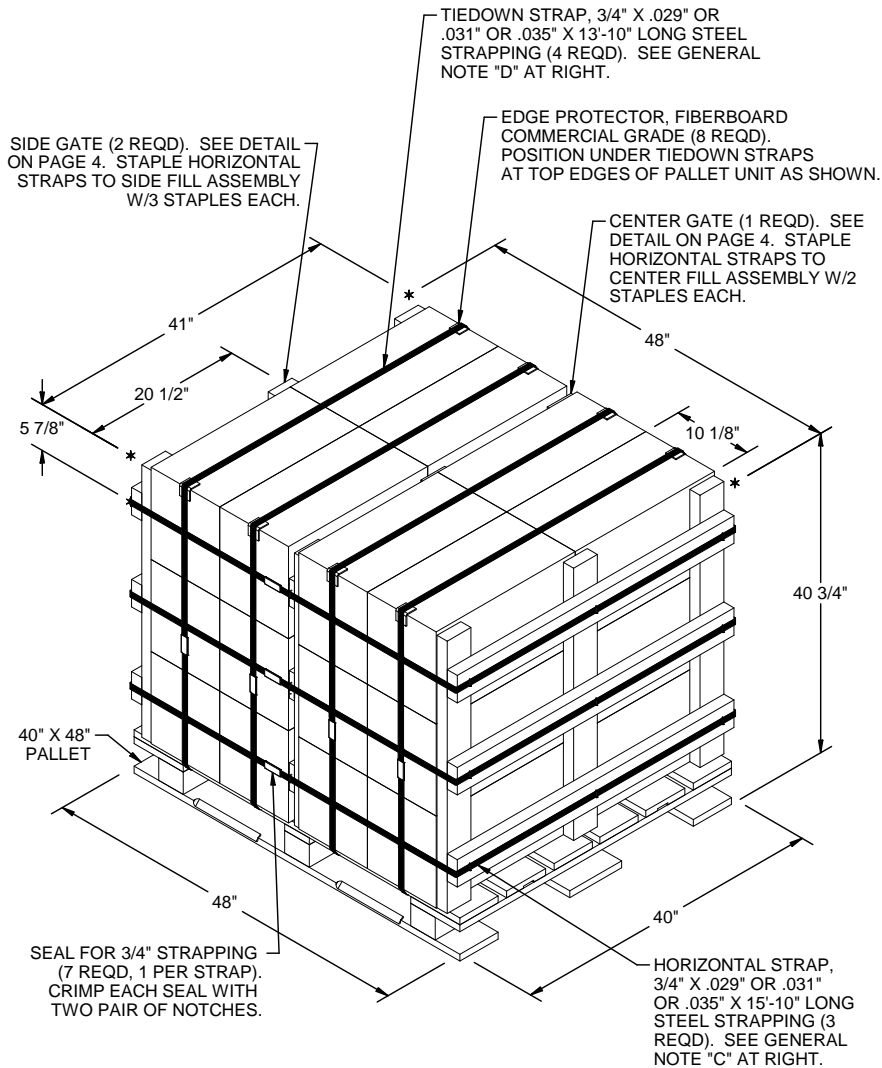
REVISION NO. 1, DATED NOVEMBER 2016, CONSISTS OF:

1. CHANGING BOX SIZE.
3. CORRECTING SIDE AND CENTER GATES.

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 EACH HORIZONTAL STRAP TO BE LOCATED AS SHOWN. 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 LOCATED 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.

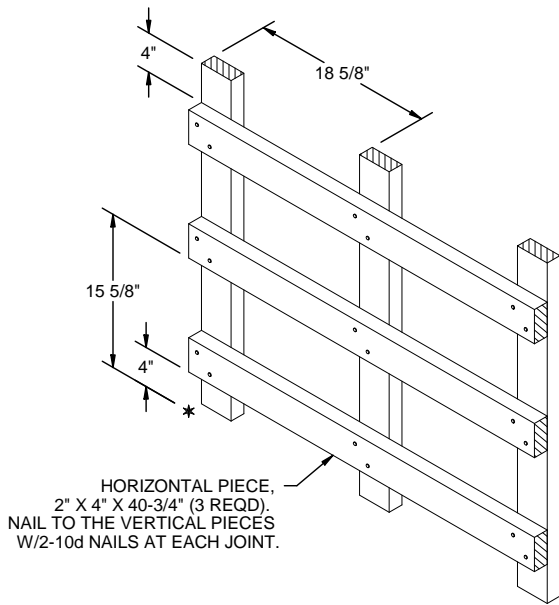
CARLOADING	- - - -	19-48-4115-5PA1002
TRUCKLOADING	- - - -	19-48-4117-11PA1003
STORAGE	- - - -	19-48-4118-1-2-3-4-14-22PA1002
END OPENING ISO		
CONTAINER	- - - -	19-48-4153-15PA1002
MILVAN	- - - -	19-48-4166-15PA1003
SIDE OPENING ISO		
CONTAINER	- - - -	19-48-4267-15PA1009
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS 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 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. FOR DETAILS OF THE FIBERBOARD BOX SEE ARDEC DRAWING 13042767.



PALLET UNIT
SEE GENERAL NOTE "B" AT RIGHT.

48 BOXES OF DUMMY CAP, BLASTING (60 PER BOX) @ 8 LBS	-	384 LBS
DUNNAGE	-	74 LBS
PALLET	-	80 LBS
TOTAL WEIGHT		538 LBS (APPROX)
CUBE		46.4 CU FT (APPROX)

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	18.88	6.29
2" X 4"	37.75	25.17
NAI LS	NO. REQD	POUNDS
6d (2")	18	1/4
10d (3")	36	3/4
PALLET, 40" X 48" - - - - - 1 REQD - - - - - 80 LBS		
STEEL STRAPPING, 3/4" - 102.83 REQD - - - - - 9.20 LBS		
SEAL FOR 3/4" STRAPPING - - - 7 REQD - - - - - NIL		
FIBERBOARD EDGE PROTECTOR - - 8 REQD - - - - - NIL		
STAPLE, 15/16" X 3/4" - - - - 24 REQD - - - - - NIL		



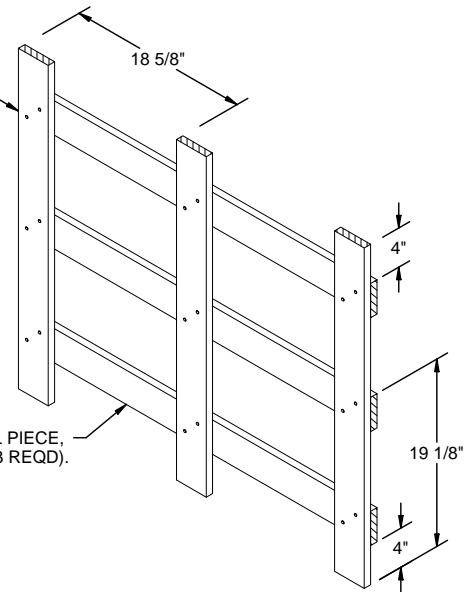
HORIZONTAL PIECE,
2" X 4" X 40-3/4" (3 REQD).
NAIL TO THE VERTICAL PIECES
W/2-10d NAILS AT EACH JOINT.

SIDE GATE
(2 REQD)

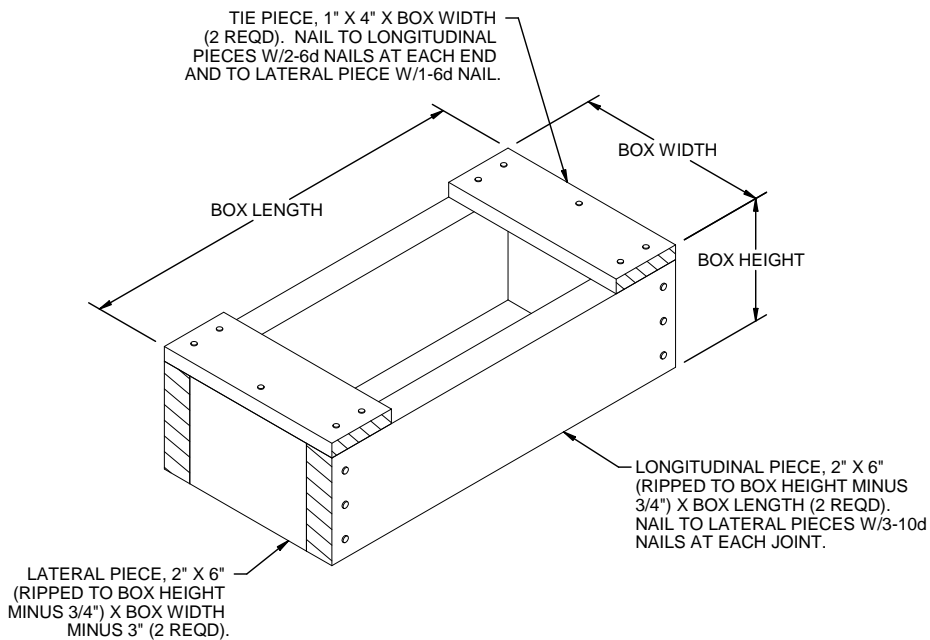
VERTICAL PIECE, 1" X 4" X 34-3/4"
(3 REQD). NAIL THROUGH THE
HORIZONTAL PIECES W/2-6d NAILS
AT EACH JOINT AND CLINCH.

VERTICAL PIECE,
2" X 4" X 34-3/4"
(3 REQD).

HORIZONTAL PIECE,
1" X 4" X 40-3/4" (3 REQD).



CENTER GATE
(1 REQD)



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

BOX WIDTH

BOX LENGTH

BOX HEIGHT

LONGITUDINAL PIECE, 2" X 6"
(RIPPED TO BOX HEIGHT MINUS
3/4") X BOX LENGTH (2 REQD).
NAIL TO LATERAL PIECES W/3-10d
NAILS AT EACH JOINT.

LATERAL PIECE, 2" X 6"
(RIPPED TO BOX HEIGHT
MINUS 3/4") X BOX WIDTH
MINUS 3" (2 REQD).

FILLER ASSEMBLY
(FOR MINUS ONE BOX)