

APPENDIX 110N

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

**FLARE, INFRARED COUNTERMEASURE, OR DECOY,
INFRARED COUNTERMEASURE PACKED 18 OR 30
IN PA19 METAL CONTAINER, UNITIZED 56 CON-
TAINERS PER 40" X 48" PALLET; APPROX BOX SIZE
12" L X 6-3/32" W X 10-5/16" 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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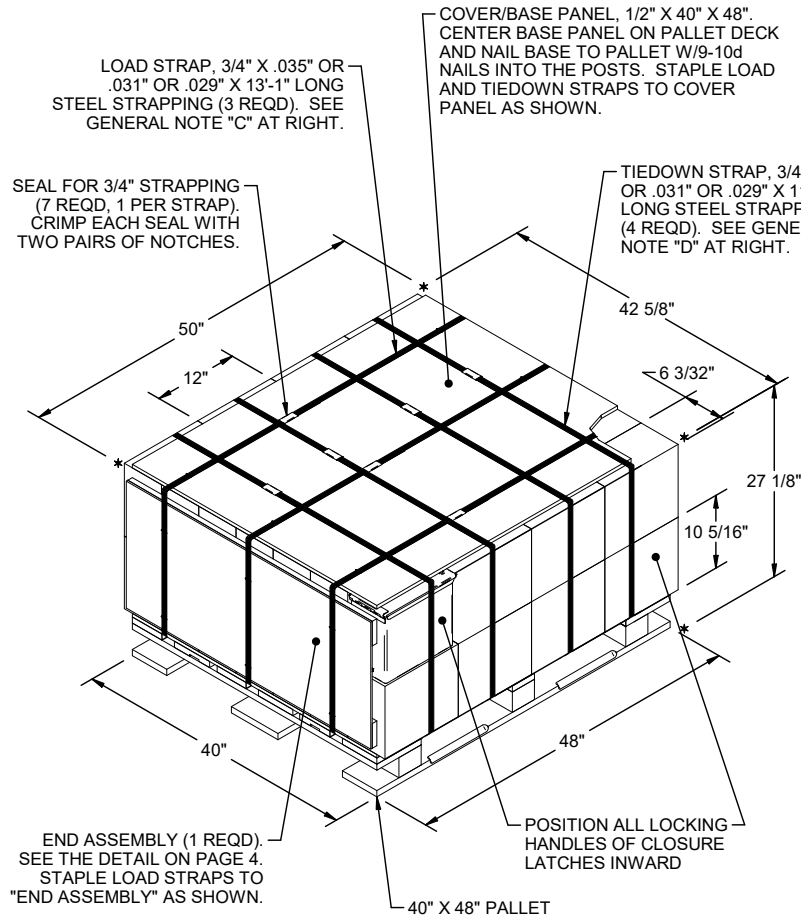
U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER HANSEN.JO. Digitally signed by HANSEN.JOSEPH.W. SEPH.W.1376 1376495538 495538 Date: 2022.04.26 11:55:12 -05'00' FCDD-ACE-LTP	CAUTION: VERIFY PRIOR TO USE AT https://www.dau.edu/cop/ammo/Pages/Default.aspx THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.														
APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND WARD.GINA. Digitally signed by WARD.GINA.M.1369379808 M.1369379808 Date: 2022.07.20 11:17:57 -05'00' AMSJM-MLT	DO NOT SCALE	<h2 style="margin: 0;">APRIL 2022</h2>													
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND BRAILSFORD.KEIT. Digitally signed by BRAILSFORD.KEITH.ANTHONY. H.ANTHONY.10286 1028655661 55661 Date: 2022.07.20 11:48:40 -05'00' DEFENSE AMMUNITION CENTER	DESIGN ENGINEER <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">BASIC</td> <td style="width: 80%;">MADELINE BANKS</td> </tr> <tr> <td>REV.</td> <td></td> </tr> </table> ENGINEERING DIVISON FIEFFER.LAURA. Digitally signed by .A.1230375727 Date: 2022.04.05 12:18:30 -05'00'	BASIC	MADELINE BANKS	REV.		TEST ENGINEER FELICIANO.AD. Digitally signed by IN.1259200373 Date: 2022.04.07 13:23:36 -05'00'	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">CLASS</th> <th style="width: 15%;">DIVISION</th> <th style="width: 15%;">DRAWING</th> <th style="width: 15%;">FILE</th> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 110N</td> <td style="text-align: center;">20PA1002</td> </tr> </table>	CLASS	DIVISION	DRAWING	FILE	19	48	4116/ 110N	20PA1002
BASIC	MADELINE BANKS														
REV.															
CLASS	DIVISION	DRAWING	FILE												
19	48	4116/ 110N	20PA1002												
	TEST REPORT N/A	EXPLOSIVE SAFETY DIRECTORATE CUMMINS.PAU. Digitally signed by L.A.1231883122 Date: 2022.04.08 05:48:41 -05'00'													

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1370-				
01-503-1455	LA21	1.3	G	1,387
01-658-5870	LA36	1.3	G	1,387
01-523-0965	LA43	4.2	G	1,824
01-551-5659	LA61	4.2	G	1,824
01-575-9374	LA66	1.3	G	1,331
01-590-4428	LA67	1.3	G	1,331
01-645-7400	LA76	1.3	G	2,283
01-670-3077	LA85	1.3	G	1,387
01-677-6009	LA88	1.3	G	1,337
01-684-4571	LA90	1.3	G	1,337

*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.

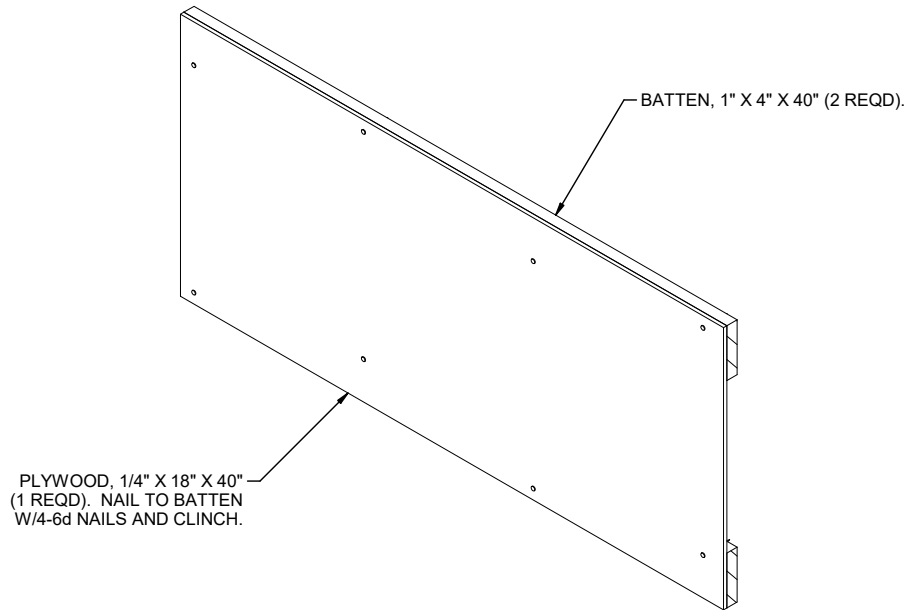
56 CONTAINERS OF FLARES (30 PER CONTAINER) @ 38 LBS	--	2,128 LBS
DUNNAGE	-----	75 LBS
PALLET	-----	80 LBS

TOTAL WEIGHT	-----	2,283 LBS (APPROX)
CUBE	-----	33.5 CU FT (APPROX)

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	13.33	4.44
NAILS	NO. REQD	POUNDS
6d (2")	16	0.10
10d (3")	9	0.14
PALLET, 40" X 48"	1 REQD	80 LBS
PLYWOOD, 1/4"	10.00 SQ FT REQD	6.88 LBS
PLYWOOD, 1/2"	26.66 SQ FT REQD	36.67 LBS
STEEL STRAPPING, 3/4"	86.23' REQD	7.70 LBS
SEAL FOR 3/4" STRAPPING	7 REQD	NIL

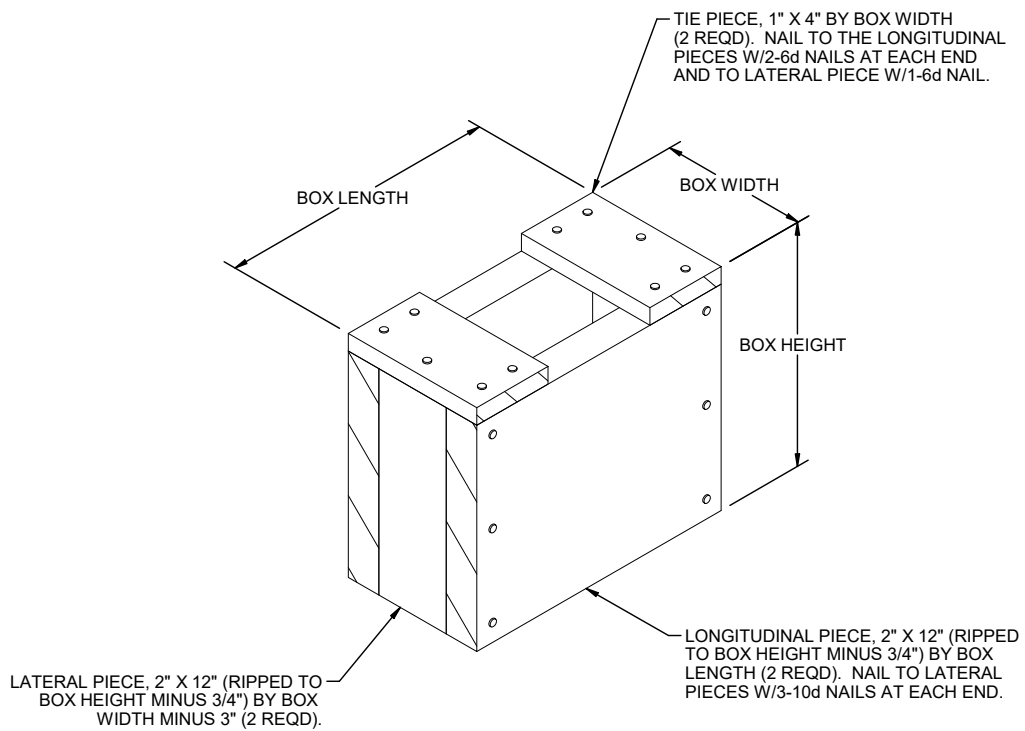
- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN 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 MUST BE PRE-POSITIONED ON THE BASE PANEL PRIOR TO PLACING 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. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE MIDDLE OF EACH BOX. 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 FLARES 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 WOODEN DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES, AND HEAT TREATED IN ACCORDANCE WITH GENERAL NOTE "JJ" IN THE BASIC PROCEDURES.
- K. FOR DETAILS OF THE PA19 METAL CONTAINER SEE PICATINNY ARSENAL DRAWING 8865541.



END ASSEMBLY

TWO ASSEMBLIES REQUIRED PER PALLET. FOR A SINGLE LAYER PALLET, REDUCE THE HEIGHT OF THE PLYWOOD TO 8".



FILLER ASSEMBLY
(FOR MINUS ONE BOX)