

# APPENDIX 115F

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

**CHAFF, COUNTERMEASURE: XM20, PACKED 120  
PER WOODEN BOX, UNITIZED 24 BOXES PER 40" X  
48" PALLET; APPROX BOX SIZE 19-1/4" L X 15-1/2"  
W X 12" H**

**NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION  
PROCEDURES DRAWING 19-48-4116-20PA1002.**

**DISTRIBUTION STATEMENT A:**

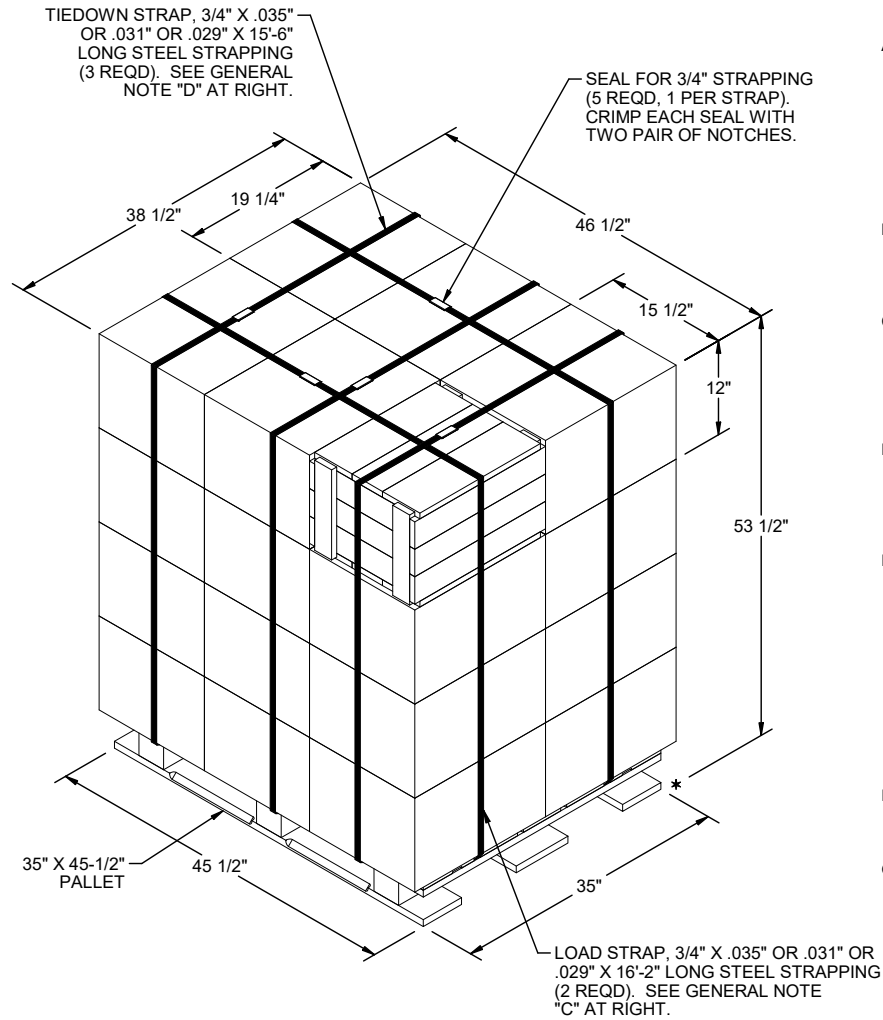
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### U.S. ARMY MATERIEL COMMAND DRAWING

<p>APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER</p> <p>HANSEN.JO. Digitally signed by SEP.H.W.137 HANSEN.JOSEPH.W. 6495538 1376495538 Date: 2023.05.04 06:38:10 -05'00'</p> <p style="text-align: right;">FCDD-ACE-LTP</p>	<p><b>CAUTION: VERIFY PRIOR TO USE AT <a href="https://www.dau.mil/cop/ammo/Pages/Default.aspx">https://www.dau.mil/cop/ammo/Pages/Default.aspx</a> THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</b></p>										
<p>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</p> <p>WARD.GINA. Digitally signed by M.1369379808 WARD.GINA.M.1369379808 Date: 2024.04.16 15:08:24 -05'00'</p> <p style="text-align: right;">AMSJM-MLT</p>	<p><b>DO NOT SCALE</b></p>		<p><b>APRIL 2023</b></p>								
<p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p>BRAILSFORD.KEITH Digitally signed by H.ANTHONY.10286 BRAILSFORD.KEITH.ANTHONY. 55661 1028655661 Date: 2024.04.17 09:36:18 -05'00'</p> <p style="text-align: right;">DEFENSE AMMUNITION CENTER</p>	<p>DESIGN ENGINEER</p> <p>BASIC</p> <p>REV.</p>	<p>ENGINEERING DIVISON</p> <p>TEST ENGINEER</p> <p>TEST REPORT</p> <p>EXPLOSIVE SAFETY DIRECTORATE</p>	<p>QUYEN TRAN</p> <p>FIEFFER.LAUR A.A.1230375727 Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2023.04.05 10:27:35 -05'00'</p> <p>FELICIANO.AD IN.1259200373 Digitally signed by FELICIANO.ADIN.1259200373 Date: 2023.04.12 14:00:24 -05'00'</p> <p>CUMMINS.PAU L.A.1231883122 Digitally signed by CUMMINS.PAUL.A.1231883122 Date: 2023.04.21 12:38:51 -05'00'</p>								
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>CLASS</th> <th>DIVISION</th> <th>DRAWING</th> <th>FILE</th> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/115F</td> <td style="text-align: center;">20PA1002</td> </tr> </table>	CLASS	DIVISION	DRAWING	FILE	19	48	4116/115F	20PA1002
CLASS	DIVISION	DRAWING	FILE								
19	48	4116/115F	20PA1002								

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATI- BILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1370 01-710-8235	LA98	----- INERT -----		1,680

\*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).



**PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

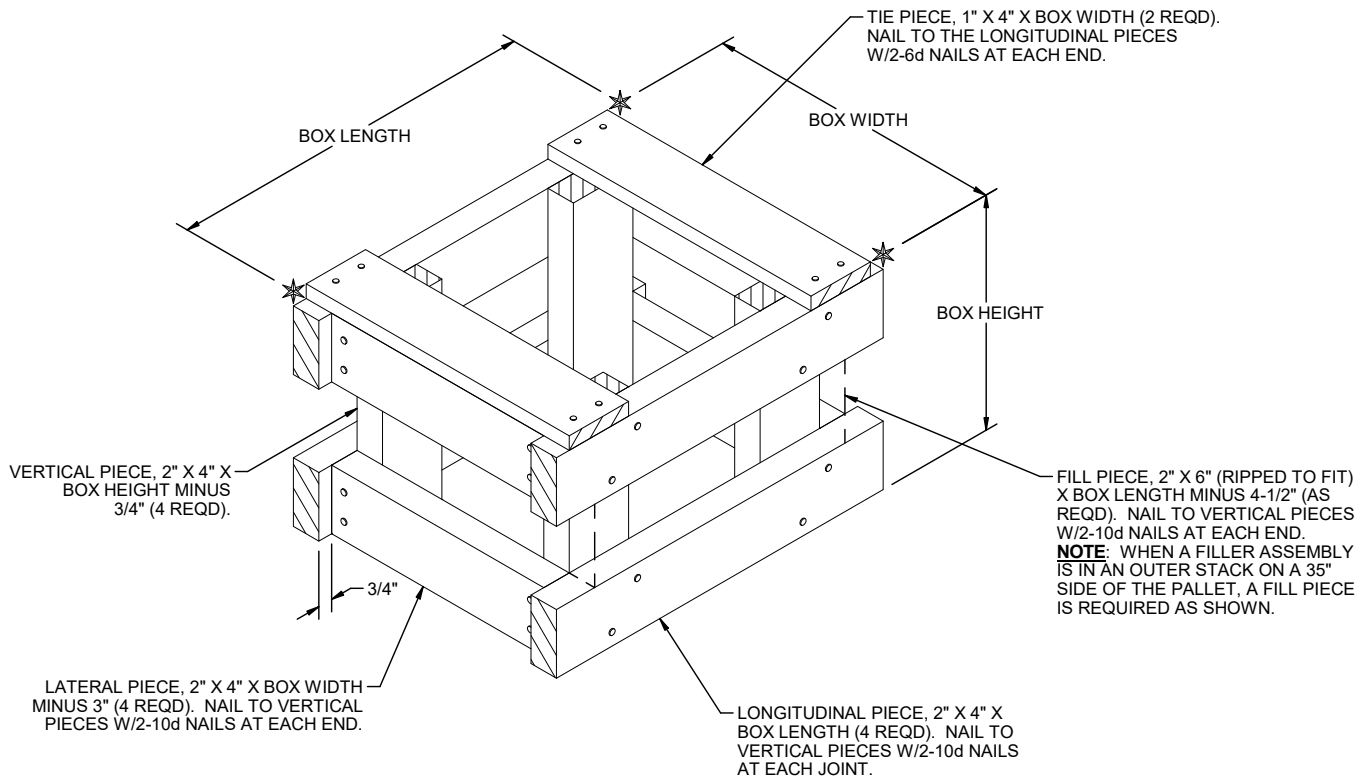
24 BOXES OF COUNTERMEASURE CHAFF (120 PER BOX) @ 67 LBS	-----	1,608 LBS
DUNNAGE	-----	7 LBS
PALLET	-----	65 LBS
<b>TOTAL WEIGHT</b>	-----	<b>1,680 LBS (APPROX)</b>
<b>CUBE</b>	-----	<b>55.4 CU FT (APPROX)</b>

BILL OF MATERIAL	
PALLET, 35" X 45-1/2"	1 REQD ----- 65 LBS
STEEL STRAPPING, 3/4"	80.17' REQD ----- 7.16 LBS
SEAL FOR 3/4" STRAPPING	5 REQD ----- NIL

**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. 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 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 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 REVISION.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING CHAFF, COUNTERMEASURE: XM20 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 WOODEN BOX SEE DEVCOM DRAWING 13103077.



**FILLER ASSEMBLY**

(FOR MINUS ONE BOX)