

APPENDIX 130B

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

**FUSE, BLASTING, TIME, M700, PACKED 8 METAL
CANS PER WOODEN BOX, UNITIZED 6 BOXES PER
35" X 45-1/2" PALLET; APPROX BOX SIZE 30-1/2" L X
15-5/16" W X 17-7/32" 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:

**NOTE: THIS DRAWING SUPERSEDES DRAWING 19-48-4138/120A-20PA1000, DATED AUGUST
1979, AND REVISION 1 HERETO, DATED JUNE 1985.**

**APPROVED FOR PUBLIC RELEASE
DISTRIBUTION IS UNLIMITED.**

U.S. ARMY MATERIEL COMMAND DRAWING

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------------------|--------------------------------|---------------|---|------|-------------------------------|--|---|----------------|--|--|---|---|-------|----------|---------|------|----|----|---------------|----------|
| <p>APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER</p> <p>HANSENEN.JO SEPH.W.1376 495538</p> <p><small>Digitally signed by HANSENEN.JOSEPH.W. 1376495538 Date: 2019.10.01 07:50:33 -05'00'</small></p> <p style="text-align: right;">FCDD-ACE-LTP</p> | <p>CAUTION: VERIFY PRIOR TO USE AT https://www.dau.mil/cop/ammo/Pages/Default.aspx THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</p> <p>RUS.ALLEN.J .1230354282</p> <p><small>Digitally signed by RUS.ALLEN.J.1230354282 Date: 2019.10.03 15:56:15 -05'00'</small></p> <p style="text-align: right;">AMSJM-MLT</p> | <p>DO NOT SCALE</p> | <p>OCTOBER 1985</p> | | | | | | | | | | | | | | | | | | | | |
| <p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p>SMITH.THERESA. ANN.1009147639</p> <p><small>Digitally signed by SMITH.THERESA.ANN.1009147 639 Date: 2019.10.04 07:28:40 -05'00'</small></p> <p style="text-align: right;">U.S. ARMY DEFENSE AMMUNITION CENTER</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 style="width: 70%;">LAURA FIEFFER</td> </tr> <tr> <td></td> <td>REV.</td> <td>MADELINE BANKS</td> </tr> </table> | DESIGN ENGINEER | BASIC | LAURA FIEFFER | | REV. | MADELINE BANKS | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">REVISION NO. 2</td> <td style="width: 50%;">SEPTEMBER 2019</td> </tr> </table> | REVISION NO. 2 | SEPTEMBER 2019 | <p>SEE THE REVISION LISTING ON PAGE 2</p> | | | | | | | | | | | |
| DESIGN ENGINEER | BASIC | LAURA FIEFFER | | | | | | | | | | | | | | | | | | | | |
| | REV. | MADELINE BANKS | | | | | | | | | | | | | | | | | | | | |
| REVISION NO. 2 | SEPTEMBER 2019 | | | | | | | | | | | | | | | | | | | | | |
| <p>TEST ENGINEER</p> <p>TEST REPORT</p> <p>EXPLOSIVE SAFETY DIRECTORATE</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ENGINEERING DIVISON</td> <td style="width: 80%;">FIEFFER.LAUR A.A.1230375727</td> </tr> <tr> <td></td> <td><small>Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2019.09.09 10:41:02 -05'00'</small></td> </tr> <tr> <td></td> <td>FELICIANO.ADI N.1259200373</td> </tr> <tr> <td></td> <td><small>Digitally signed by FELICIANO.ADI.1259200373 Date: 2019.09.12 08:17:46 -05'00'</small></td> </tr> <tr> <td></td> <td>THOMAS.CARLAN THONY.110462137 2</td> </tr> <tr> <td></td> <td><small>Digitally signed by THOMAS.CARLANTHONY.1104 621372 Date: 2019.09.12 13:51:30 -05'00'</small></td> </tr> </table> | ENGINEERING DIVISON | FIEFFER.LAUR A.A.1230375727 | | <small>Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2019.09.09 10:41:02 -05'00'</small> | | FELICIANO.ADI N.1259200373 | | <small>Digitally signed by FELICIANO.ADI.1259200373 Date: 2019.09.12 08:17:46 -05'00'</small> | | THOMAS.CARLAN THONY.110462137 2 | | <small>Digitally signed by THOMAS.CARLANTHONY.1104 621372 Date: 2019.09.12 13:51:30 -05'00'</small> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">CLASS</td> <td style="width: 15%;">DIVISION</td> <td style="width: 20%;">DRAWING</td> <td style="width: 45%;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 130B</td> <td style="text-align: center;">20PA1002</td> </tr> </table> | CLASS | DIVISION | DRAWING | FILE | 19 | 48 | 4116/ 130B | 20PA1002 |
| ENGINEERING DIVISON | FIEFFER.LAUR A.A.1230375727 | | | | | | | | | | | | | | | | | | | | | |
| | <small>Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2019.09.09 10:41:02 -05'00'</small> | | | | | | | | | | | | | | | | | | | | | |
| | FELICIANO.ADI N.1259200373 | | | | | | | | | | | | | | | | | | | | | |
| | <small>Digitally signed by FELICIANO.ADI.1259200373 Date: 2019.09.12 08:17:46 -05'00'</small> | | | | | | | | | | | | | | | | | | | | | |
| | THOMAS.CARLAN THONY.110462137 2 | | | | | | | | | | | | | | | | | | | | | |
| | <small>Digitally signed by THOMAS.CARLANTHONY.1104 621372 Date: 2019.09.12 13:51:30 -05'00'</small> | | | | | | | | | | | | | | | | | | | | | |
| CLASS | DIVISION | DRAWING | FILE | | | | | | | | | | | | | | | | | | | |
| 19 | 48 | 4116/ 130B | 20PA1002 | | | | | | | | | | | | | | | | | | | |

| PALLET UNIT DATA | | | | |
|------------------|-------|----------------------------|----------------------|---------------------|
| ITEMS INCLUDED | | *HAZARD CLASS AND DIVISION | *COMPATIBILITY GROUP | APPROX WEIGHT (LBS) |
| NSN | DODIC | | | |
| 1375-00-028-5246 | M670 | 1. 4 | S | 726 |

*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

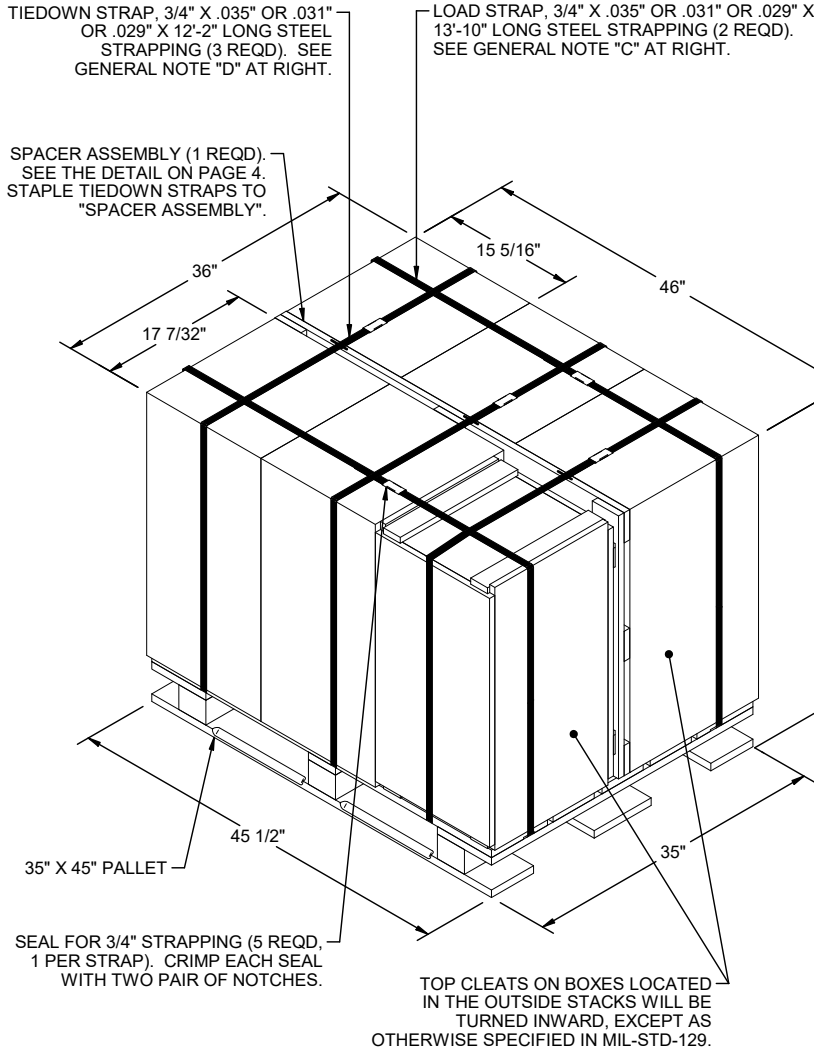
REVISION NO. 1, DATED JUNE 1986, CONSISTS OF CHANGES:

CHANGING "PALLET UNIT DATA" CHART.

REVISION NO. 2, DATED SEPTEMBER 2019, CONSISTS OF CHANGES PER ECP R18B2002 INCLUDING:

1. UPDATING DRAWING FORMAT.
2. UPDATING BOX DIMENSIONS
3. UPDATING STRAPPING THICKNESSES.

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 AFTER THE APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET. TIEDOWN STRAPS WILL BE TIGHTENED PRIOR TO THE APPLICATION OF THE LOAD STRAPS.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

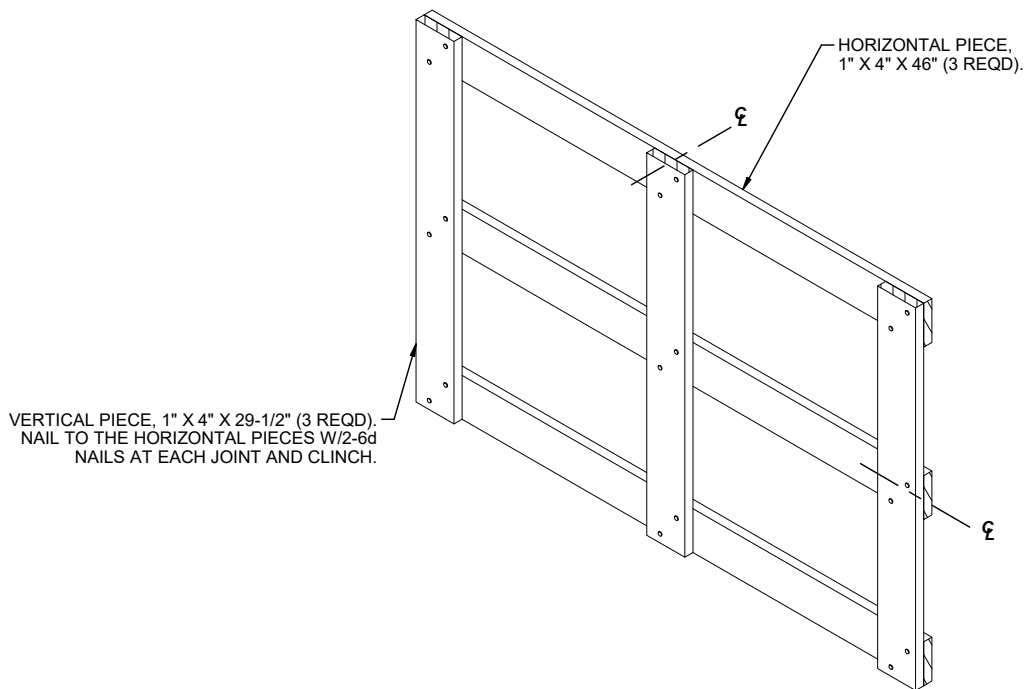
- CARLOADING - - - - 19-48-4115-5PA1002
- TRUCKLOADING - - - - 19-48-4117-11PA1003
- STORAGE - - - - 19-48-4118-1-2-3-4-14-22PA1002
- END OPENING ISO
- CONTAINER - - - - 19-48-4153-15PA1002
- MILVAN - - - - 19-48-4166-15PA1003
- SIDE OPENING ISO
- CONTAINER - - - - 19-48-4267-15PA1009

- 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 FUSES 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 1A 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 MIL-DTL-2427 BOX SEE ARDEC DRAWING 9242365.

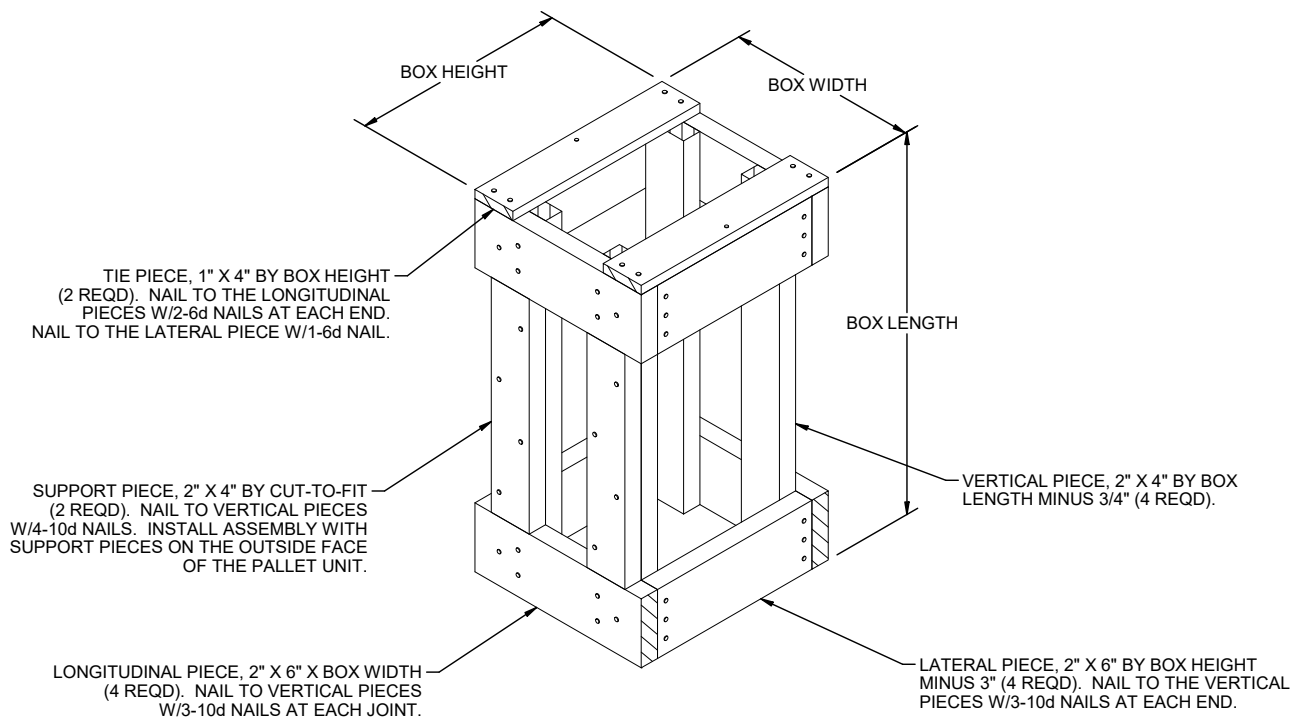
PALLET UNIT
SEE GENERAL NOTE "B" AT RIGHT.

| | |
|---|----------------------------|
| 6 BOXES OF FUSES, TIME BLASTING @ 107 LBS | 642 LBS |
| DUNNAGE | 19 LBS |
| PALLET | 65 LBS |
| TOTAL WEIGHT | 726 LBS (APPROX) |
| CUBE | 34.5 CU FT (APPROX) |

| BILL OF MATERIAL | | |
|-------------------------|-------------|------------|
| LUMBER | LINEAR FEET | BOARD FEET |
| 1" X 4" | 18.88 | 6.29 |
| NAI LS | NO. REQD | POUNDS |
| 6d (2") | 18 | 0.11 |
| PALLET, 35" X 45-1/2" | 1 REQD | 65 LBS |
| STEEL STRAPPING, 3/4" | 64.17' REQD | 5.73 LBS |
| SEAL FOR 3/4" STRAPPING | 5 REQD | NIL |



SPACER ASSEMBLY
(1 REQD)



FILLER ASSEMBLY
(FOR MINUS ONE BOX)