# **APPENDIX 107F**

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

SIMULATOR, LAUNCHING, AT, GM, AND ROCKET, M22, PACKED 150 PER WIREBOUND BOX, UNITIZED 18 BOXES PER 35" X 45-1/2" PALLET; APPROX BOX SIZE 22-1/8" L X 10-7/8" W X 9-1/2" 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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DEFENSE AMMUNITION CENTER

## U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER CAUTION: VERIFY PRIOR TO USE AT https://www.dau.mil/cop/ammo/Pages/Default.aspx HANSSEN.JOSEP Digitally signed by HANSSEN.JOSEPH.W.13764955 THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4. H.W.1376495538 38 Date: 2023.10.13 06:12:56 -05'00' DO NOT SCALE FCDD-ACF-LTP **AUGUST 1981** APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND BASIC WILLIAM R. FRERICHS DESIGN WARD.GINA. Digitally signed by WARD.GINA.M.1369379808 M.1369379808 Date: 2023.11.07 08:20:21 -06'00' **ENGINEER** RF\/ **QUYEN TRAN REVISION NO. 2 SEPTEMBER 2023** FIEFFER.LAUR Digitally signed by FIEFFER.LAURA A.1230375727 Date: 2023.09.21 09:00:25-0500 **ENGINEERING** AMJM-MLT **SEE THE REVISION LISTING ON PAGE 2** DIVISON APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND CLASS DIVISION DRAWING FILE TEST ENGINEER FELICIANO.AD Digitally signed by FELICIANO.ADIN.1259200373 IN.1259200373 Date: 2023.09.27 14:02:46 -0500' BRAILSFORD.KEIT Digitally signed by
H.ANTHONY.10286 BRAILSFORD.KEITH.ANTHONY.
1028655661 Date: 2023.11.16 13:55:50 -06'00' TEST NA REPORT 4116/ 20PA1002 **EXPLOSIVES** 19 48 CUMMINS.PAU Digitally signed by CUMMINS.PAULA.1231883122 Date: 2023.09.28 14:21:13 -05:09 107F **SAFETY** DIRECTORATE

| PALLET UNIT DATA                   |              |                                  |                              |                           |  |  |  |  |  |
|------------------------------------|--------------|----------------------------------|------------------------------|---------------------------|--|--|--|--|--|
| ITEMS INCL                         | .UDED        |                                  |                              |                           |  |  |  |  |  |
| NSN                                | DODIC        | *HAZARD<br>CLASS AND<br>DIVISION | *COMPATI-<br>BILITY<br>GROUP | APPROX<br>WEIGHT<br>(LBS) |  |  |  |  |  |
| 1370<br>01-085-2601<br>01-646-9354 | L367<br>LA77 | 1.3<br>1.4                       | G<br>G                       | 794<br>794                |  |  |  |  |  |

<sup>\*</sup>HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND IN-FORMATIONAL 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).

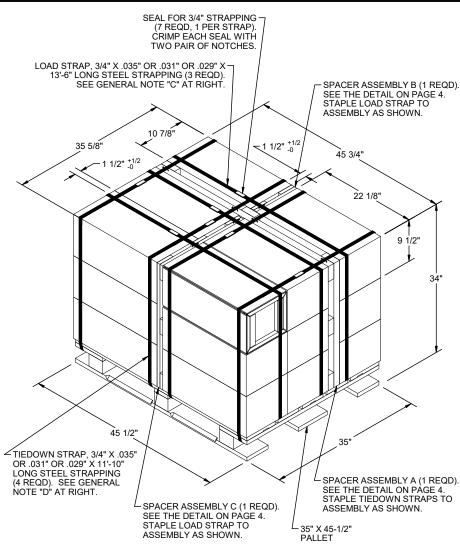
### **REVISIONS**

REVISION NO. 1, DATED APRIL 1982, CONSISTS OF:

- 1. CHANGING BOX DIMENSIONS.
  2. CHANGING UNITIZATION PROCEDURES TO CONFIRM TO 1. ABOVE.

REVISION NO. 2, DATED SEPTEMBER 2023, CONSISTS OF CHANGES PER ECP R21K3011 AND ECP R23K3004 INCLUDING:

- UPDATING TO CURRENT DRAWING FORMAT.
   ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.
   REVISING GENERAL NOTES.
- 4. UPDATING STRAPPING THICKNESSES.



#### **PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT.

| 18 BOXES OF SIMULATOR DUNNAGE PALLET |                | - | <br> | <br>- | - | - | - | - | - | - | - | - | 45 LBS |  |
|--------------------------------------|----------------|---|------|-------|---|---|---|---|---|---|---|---|--------|--|
|                                      | TOTAL WEIGHT - |   |      |       |   |   |   |   |   |   |   |   |        |  |

| BILL OF MATERIAL   |             |            |  |  |  |  |  |  |
|--|-------------|------------|--|--|--|--|--|--|
| LUMBER   | LINEAR FEET | BOARD FEET |  |  |  |  |  |  |
| 1" X 4"<br>2" X 4"   | 20<br>18    | 7<br>12    |  |  |  |  |  |  |
| NAILS  | NO. REQD    | POUNDS     |  |  |  |  |  |  |
| 6d (2")<br>10d (3")  | 30<br>18    | 1/4<br>1/4 |  |  |  |  |  |  |
| PALLET, 35" X 45-1/2" 1 REQD 65 LBS STEEL STRAPPING, 3/4" - 87.83' REQD 5.91 LBS SEAL FOR 3/4" STRAPPING 7 REQD NIL STAPLE NIL |             |            |  |  |  |  |  |  |

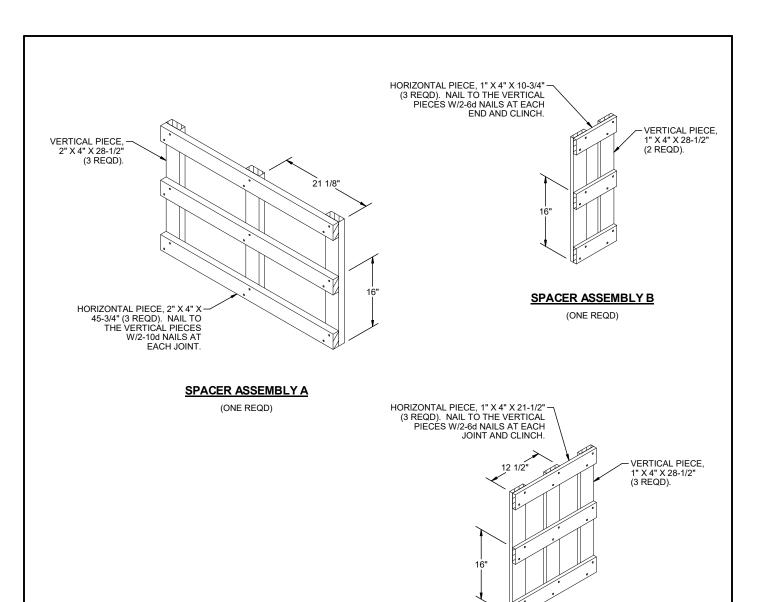
#### **GENERAL NOTES**

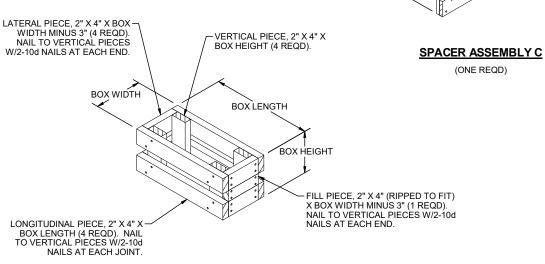
- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX PROPERLY.
- 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 PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. NOTE THAT THE LOAD STRAPS WILL BE LOCATED AS SHOWN. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK/STRINGER 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 - - - 19-48-4118-1-2-3-4-1422PA1002
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 IS-SUANCE 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 SIMULATORS 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. IF DIMENSIONAL VARIATION IN THE LENGTH OF THE BOX PERMITS, SPACER ASSEMBLIES "B" AND "C" DEPICTED IN THE UNIT AT LEFT MAY BE OMITTED, IF AND ONLY IF THE OMISSION OF SPACER ASSEMBLIES WILL RESULT IN THE UNIT LOAD COMPLETELY FILLING OUT THE PALLET.
- J. 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.
- K. ALL WOODEN DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "AA" IN THE BASIC PROCEDURES, AND HEAT TREATED IN AC-CORDANCE WITH GENERAL NOTE "JJ" IN THE BASIC PRO-CEDURES.
- L. FOR DETAILS OF WOODEN BOX SEE ARDEC DRAWING

PAGE 3





#### **FILLER ASSEMBLY**

FOR MINUS ONE BOX. INSTALL WITH FILL PIECE FACING OUTWARD ON PALLET UNIT.

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