

# APPENDIX 65T

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

**GRENADE, HAND, SMOKE, M18 OR M83, PACKED 6  
PER M2 SERIES METAL BOX, 2 M2 SERIES METAL  
BOXES PER WIREBOUND BOX, UNITIZED 48 BOXES  
PER 40" X 48" PALLET; APPROX BOX SIZE 14-7/16"  
L X 12-17/32" W X 8-1/8" 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:**

APPROVED FOR PUBLIC RELEASE  
DISTRIBUTION IS UNLIMITED.

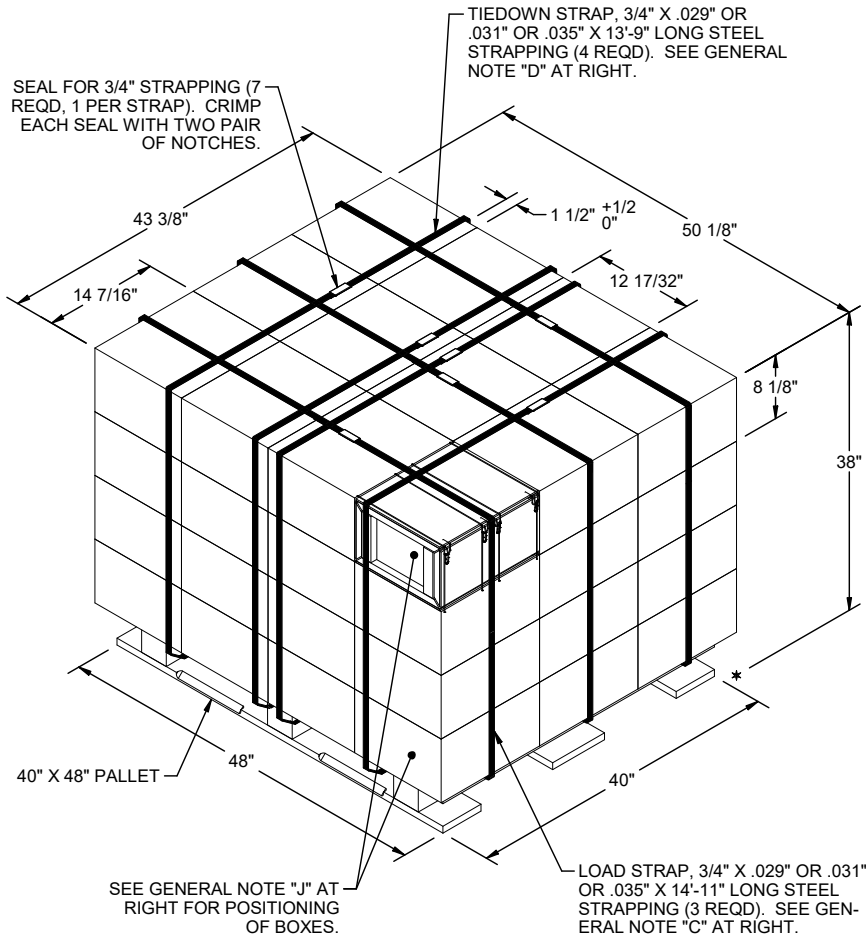
### U.S. ARMY MATERIEL COMMAND DRAWING

<p><b>APPROVED, U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND</b> PENNOCK.AM Digitally signed by PENNOCK.AMANDA.C.1 ANDA.C.13800 380042157 42157 Date: 2019.02.08 09:20:41 -06'00'</p>	<p><b>CAUTION: VERIFY PRIOR TO USE AT <a href="https://www.dau.mil/cop/amo/Pages/Default.aspx">https://www.dau.mil/cop/amo/Pages/Default.aspx</a> THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</b></p>		
<p><b>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</b> RUS.ALLEN.J Digitally signed by RUS.ALLEN.J.1230354282 .1230354282 Date: 2019.04.01 10:52:44 -05'00'</p>	<p><b>DO NOT SCALE</b></p>		<p><b>JANUARY 2019</b></p>
<p><b>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</b> THOMAS.CARL.AN Digitally signed by THOMAS.CARL.ANTHONY.1104 THONY.110462137 621372 2 Date: 2019.04.01 11:13:40 -05'00'</p>	<p><b>RDAR-EIL-TP</b></p>	<p><b>AMSJM-MMT</b></p>	<p><b>CLASS</b></p>
<p><b>U.S. ARMY DEFENSE AMMUNITION CENTER</b></p>	<p><b>DESIGN ENGINEER</b></p>	<p><b>ENGINEERING DIVISON</b></p>	<p><b>DIVISION</b></p>
<p><b>TEST REPORT</b></p>	<p><b>TEST ENGINEER</b></p>	<p><b>EXPLOSIVE SAFETY DIRECTORATE</b></p>	<p><b>DRAWING</b></p>
<p><b>NA</b></p>	<p><b>FIEFFER.LAUR A.A.1230375727</b> Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2019.01.16 12:20:23 -06'00'</p>	<p><b>FAIRHURST.ROBE RT.JOHN.10157668 80</b> Digitally signed by FAIRHURST.ROBERT.JOHN.101 5766880 Date: 2019.02.05 14:39:52 -06'00'</p>	<p><b>FILE</b></p>
<p><b>19</b></p>	<p><b>48</b></p>	<p><b>4116/65T</b></p>	<p><b>20PA1002</b></p>

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1330-				
01-616-9084	G940	1. 4	G	1, 865
01-617-3170	G945	1. 4	G	1, 865
01-617-2702	G950	1. 4	G	1, 865
01-617-2720	G955	1. 4	G	1, 865
01-617-0652	G982	1. 4	G	1, 865

\*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**

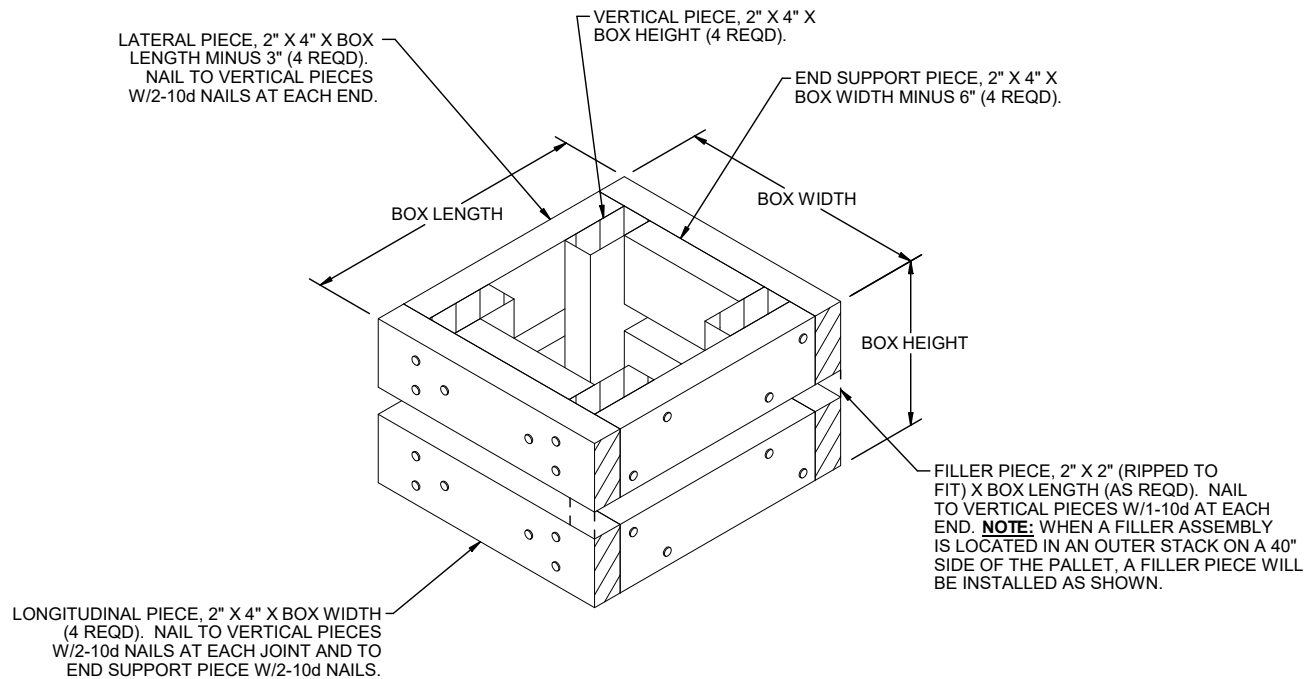


**PALLET UNIT**  
SEE GENERAL NOTE "B" AT RIGHT.

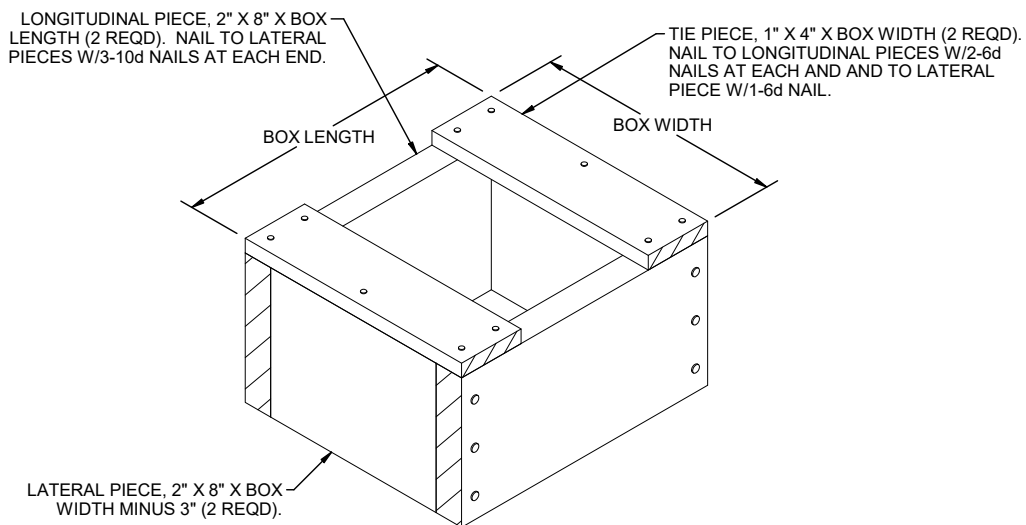
48 BOXES OF SMOKE HAND GRENADES (12 PER BOX) @ 37 LBS	- -	1,776 LBS
DUNNAGE	- - - - -	9 LBS
PALLET	- - - - -	80 LBS
<b>TOTAL WEIGHT</b>	- - - - -	<b>1,865 LBS (APPROX)</b>
<b>CUBE</b>	- - - - -	<b>47.8 CU FT (APPROX)</b>

BILL OF MATERIAL		
PALLET, 40" X 48"	- - - - - 1 REQD	- - - - - 80 LBS
STEEL STRAPPING, 3/4"	- - 99.75 REQD	- - - - - 8.91 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 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 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 SIDE CLEATS OF THE END PANELS OF THE 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 SMOKE HAND GRENADES 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. POSITION THE THREE OUTBOARD BOXES ON THE 40" SIDES OF THE BOTTOM LAYER OF THE UNIT WITH THE TOPS DOWNWARD, AND THE THREE OUTWARD BOXES ON THE 40" SIDES OF THE TOP LAYER OF THE UNIT WITH TOPS UPWARDS.
- K. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.
- L. FOR DETAILS OF THE WIREBOUND BOX SEE ARDEC DRAWING 13051604.



**FILLER ASSEMBLY**  
(FOR MINUS ONE BOX)



**ALTERNATIVE FILLER ASSEMBLY**  
(FOR MINUS ONE BOX)  
SEE GENERAL NOTE "K" ON PAGE 3.