

# APPENDIX 71D

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

**FUZE, GRENADE, HAND, NON-LETHAL (STUN),  
XM240, PACKED 12 PER M2 SERIES METAL CON-  
TAINER, 2 CONTAINERS 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.

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### U.S. ARMY MATERIEL COMMAND DRAWING

<p style="text-align: center; font-size: small;">APPROVED, U.S. ARMY FIELD SUPPORT COMMAND</p> <p style="text-align: right; font-size: x-small;">T.P.R.</p> <p style="font-size: 1.5em; text-align: center;"><i>David A. ...</i></p> <p style="text-align: right; font-size: x-small;">AMSRS-AAR-AIL-TP</p>	CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.			
<p style="text-align: center; font-size: small;">APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p style="font-size: 1.5em; text-align: center;"><i>David ...</i></p> <p style="text-align: right; font-size: x-small;">AMSFS-ST</p>	DO NOT SCALE		MAY 2005	
	ENGINEER OR TECHNICIAN	BASIC REV.	LAURA A. FIEFFER	
<p style="text-align: center; font-size: small;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	TRANSPORTATION ENGINEERING DIVISION	<i>G. L. Willis</i>		
	VALIDATION ENGINEERING DIVISION	<i>...</i>	TESTED	
	ENGINEERING DIRECTORATE	<i>G. L. Willis</i>		
	CLASS	DIVISION	DRAWING	FILE
	19	48	4116/ 71D	20PA1002

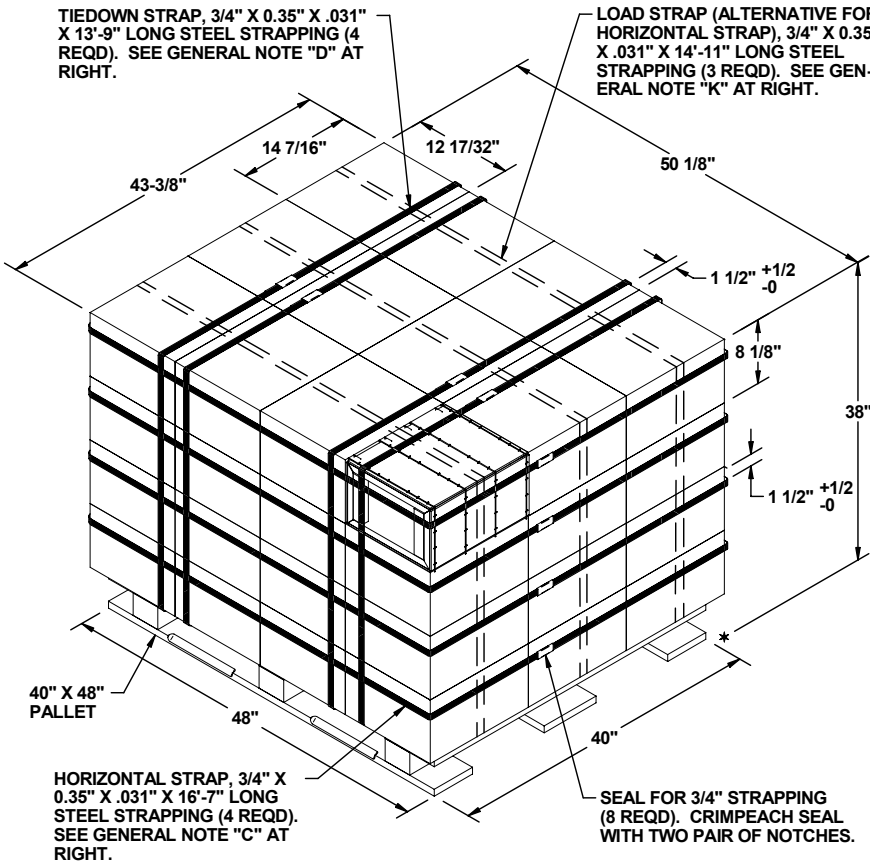
PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1330-01-518-8781	GG19	TBD	TBD	1,387

\*HAZARD AND 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**

- 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. INSTALL EACH HORIZONTAL STRAP TO ENIRCLE A LAYER OF BOXES ON THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE TOP OF EACH LAYER. HORIZONTAL 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. 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 HORIZONTAL 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 HAND GRENADE FUZES 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-P-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.
- K. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS MAY BE PRE-POSITIONED ON THE PALLET DECK OR THREADED THROUGH THE STRAP SLOTS. **NOTICE:** WHEN LOAD STRAPS ARE BEING USED IN LIEU OF HORIZONTAL STRAPS, THE THREE OUTBOARD BOXES ON THE 40" SIDES OF THE BOTTOM LAYER OF THE UNIT WILL BE POSITIONED WITH THE TOPS DOWNWARD, AND THE THREE OUTWARD BOXES ON THE 40" SIDES OF THE TOP LAYER OF THE UNIT WILL BE POSITIONED WITH TOPS UPWARDS. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.
- L. FOR DETAILS OF THE PPP-B-585 WIREBOUND BOX SEE ARDEC DRAWING 7553347.

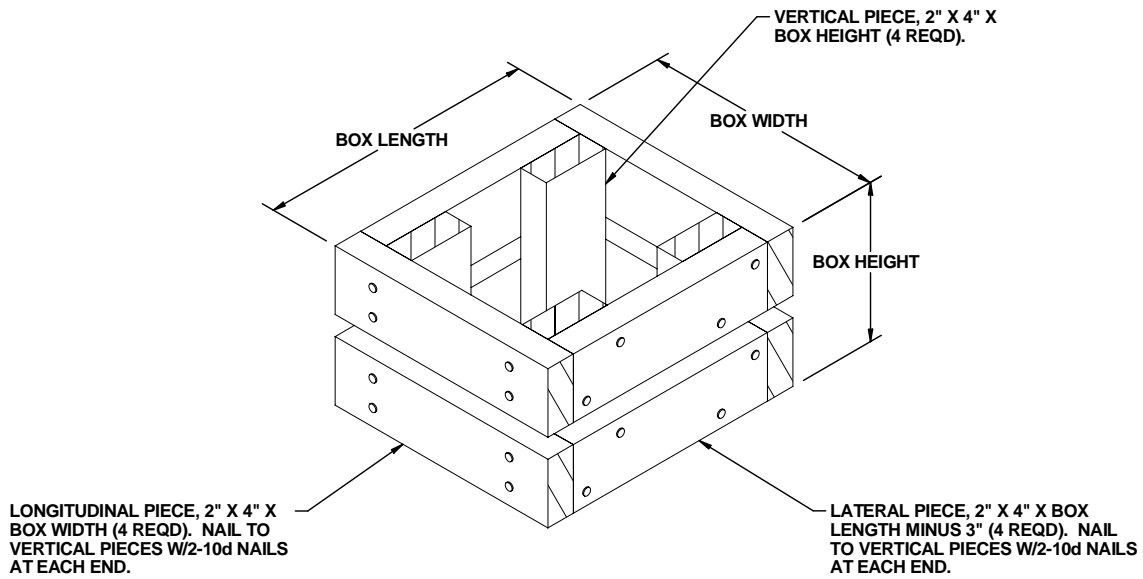


**PALLET UNIT**  
SEE GENERAL NOTE "B" AT RIGHT.

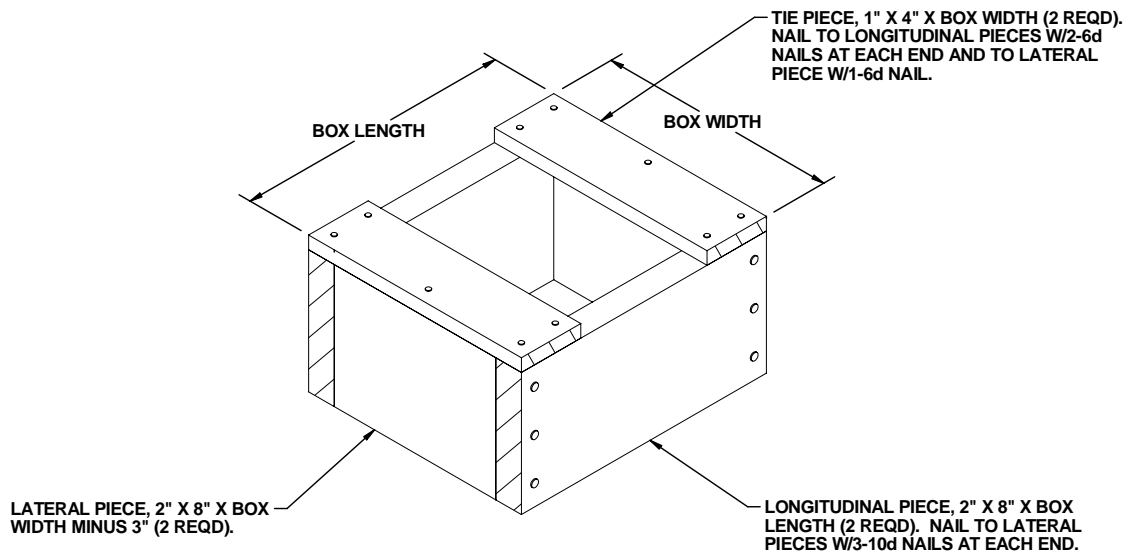
48 BOXES OF GRENADE FUZES (24 PER BOX) @ 27 LBS - - - -	1,296 LBS
DUNNAGE - - - - -	11 LBS
PALLET - - - - -	80 LBS

TOTAL WEIGHT - - - - -	1,387 LBS (APPROX)
CUBE - - - - -	47.8 CU FT (APPROX)

BILL OF MATERIAL			
PALLET, 40" X 48" - - - - -	1 REQD - - - - -	80 LBS	
STEEL STRAPPING, 3/4" - 121.33' REQD - - - - -	10.83 LBS		
SEAL FOR 3/4" STRAPPING - - - - -	8 REQD - - - - -	0.09 LBS	



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



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