

APPENDIX 65U

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

**GRENADE, HAND: OFFENSIVE, XM111, PACKED 16
PER WOODEN BOX, UNITIZED 45 BOXES PER 35" X
45-1/2" PALLET; APPROX BOX SIZE 15-3/4" L X
14-1/2" WIDE X 7-7/16" 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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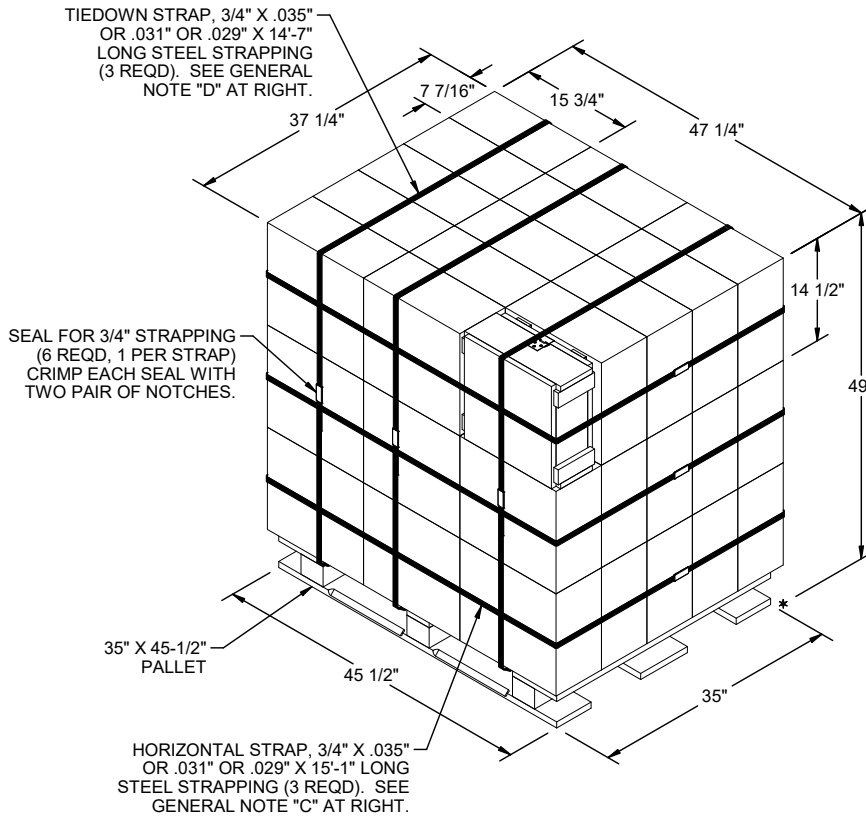
U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER WALLS.DAVID D.MICHAEL.1 154540543 <small>Digitally signed by WALLS.DAVID.MICHAEL.1 EL.1154540543 Date: 2020.03.03 11:05:42 -06'00'</small>	CAUTION: VERIFY PRIOR TO USE AT https://www.dau.edu/cop/ammo/Pages/Default.aspx THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.			FEBRUARY 2020							
APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND WARD.GINA. M.1369379808 <small>Digitally signed by WARD.GINA.M.1369379808 Date: 2020.03.05 08:17:21 -06'00'</small>	DO NOT SCALE	SPENCER HOVEY									
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND SMITH.THERESA. ANN.1009147639 <small>Digitally signed by SMITH.THERESA.ANN.1009147 639 Date: 2020.03.05 11:15:17 -06'00'</small>	DESIGN ENGINEER	BASIC REV.	ENGINEERING DIVISION	FIEFFER.LAUR A.A.1230375727 <small>Digitally signed by FIEFFER.LAURA.A.1230375727 Date: 2020.02.11 10:23:52 -06'00'</small>	TEST REPORT	NA	FELICIANO.AD IN.1259200373 <small>Digitally signed by FELICIANO.ADIN.1259200373 Date: 2020.02.20 08:56:22 -06'00'</small>	CLASS	DIVISION	DRAWING	FILE
U.S. ARMY DEFENSE AMMUNITION CENTER	EXPLOSIVE SAFETY DIRECTORATE	THOMAS.CARL.AN THONY.1104621372 <small>Digitally signed by THOMAS.CARL.ANTHONY.11046 21372 Date: 2020.02.20 14:22:57 -06'00'</small>		19	48	4116/65U	20PA1002				

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1330-01-648-9824	GG37	1. 1	F	1, 558

*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



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 BE LOCATED AS SHOWN. 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 AND TO BE LOCATED AS SHOWN. 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 XM111 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 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. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES AND ONE HORIZONTAL STRAP MUST BE OMITTED, AND TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-2". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 34-1/2". A GROSS UNIT WEIGHT OF 1,062 POUNDS, AND A UNIT CUBE OF 35.2 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO INTERMODAL FREIGHT CONTAINER, VAN TRAILER, OR BOXCAR. THE DETERMINATION TO REDUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RESPONSIBLE COMMAND AND WILL BE BASED UPON ECONOMICS OF TRANSPORTATION AND HANDLING.

K. FOR DETAILS OF THE WOOD BOX SEE ARDEC DRAWING 13060862.

PALLET UNIT

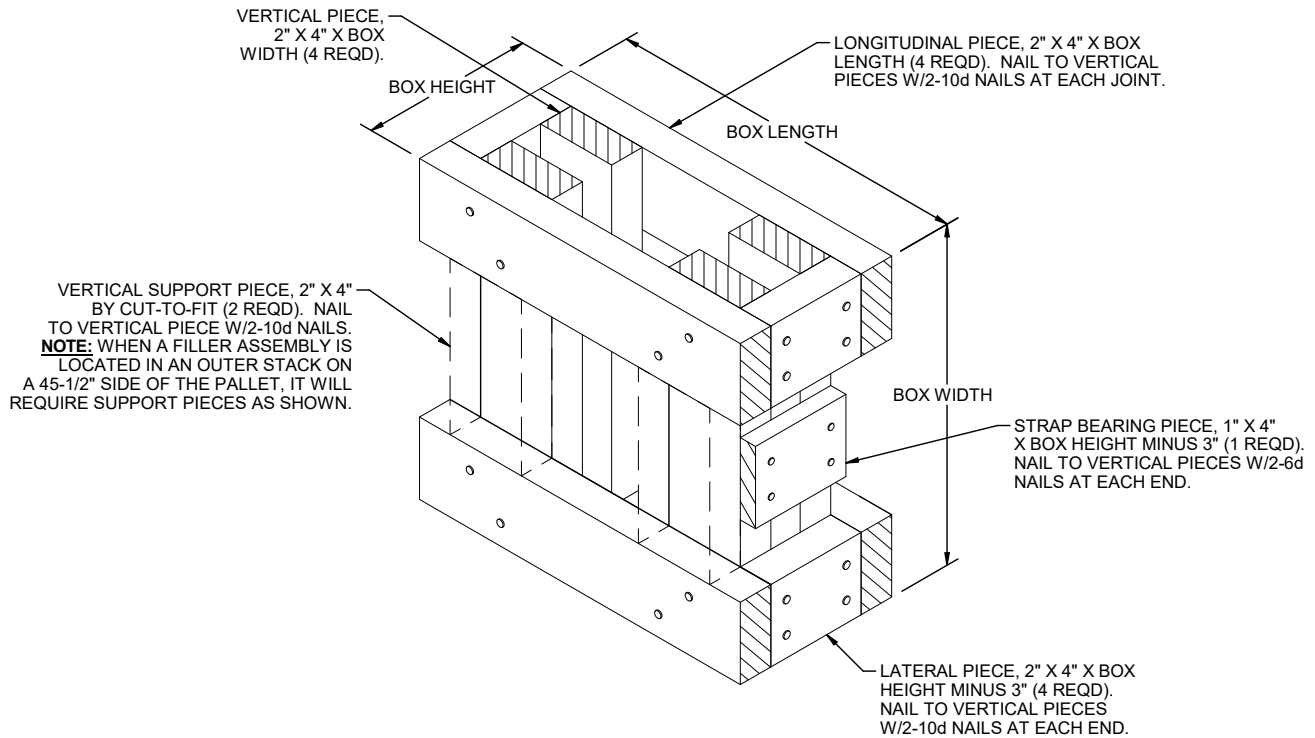
SEE GENERAL NOTE "B" AT RIGHT.

45 BOXES OF XM111 GRENADES (16 PER BOX) @ 33 LBS	- - - -	1,485 LBS
DUNNAGE	- - - -	8 LBS
PALLET	- - - -	65 LBS

TOTAL WEIGHT	- - - - -	1,558 LBS (APPROX)
CUBE	- - - - -	49.9 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2"	- - - - 1 REQD	- - - - 65 LBS
STEEL STRAPPING, 3/4"	- - 88.90' REQD	- - - - 8 LBS
SEAL FOR 3/4" STRAPPING	- - - 6 REQD	- - - - NIL



FILLER ASSEMBLY

(FOR MINUS ONE BOX)