

APPENDIX 37C

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

**LAUNCHER AND CARTRIDGE, 84MM, M136A1,
AT4CS-RS, PACKED 2 PER PLYWOOD BOX, UNIT-
IZED 9 BOXES PER 40" X 48" PALLET; APPROX BOX
SIZE 43-1/2" L X 16-9/16" W X 10-3/16" 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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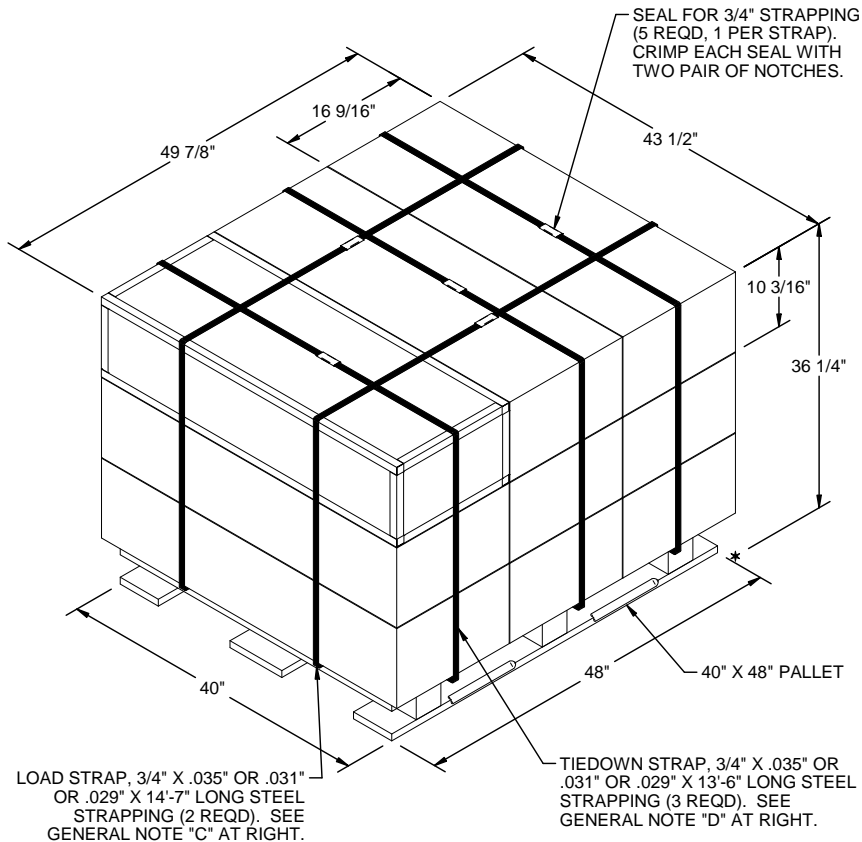
U.S. ARMY MATERIEL COMMAND DRAWING

<p>APPROVED, U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND</p> <p>REHMSTEDT.MA RK.J.1230548400</p> <p style="font-size: small;">Digitally signed by REHMSTEDT.MARK.J.1230548400 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=ISA, cn=REHMSTEDT.MARK.J.1230548400 Date: 2014.08.05 15:07:43 -0500</p> <p style="text-align: right;">RDAR-EIL-TP</p>	<p>CAUTION: VERIFY PRIOR TO USE AT HTTPS://MHP.REDSTONE.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p>		SEPTEMBER 2014							
<p>APPROVED, U.S. ARMY JOINT MUNITIONS COMMAND</p> <p>CASILLAS.GILBE RT.J.1230393644</p> <p style="font-size: small;">Digitally signed by CASILLAS.GILBERT.J.1230393644 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=CASILLAS.GILBERT.J.1230393644 Date: 2014.08.06 12:39:15 -0500</p> <p style="text-align: right;">AMSJM-LIT</p>	<p>DO NOT SCALE</p>	<p>RICHARD GARSIDE</p>								
<p>APPROVEDBY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p>SHIMP.UPTON .R.1231257183</p> <p style="font-size: small;">Digitally signed by SHIMP.UPTON.R.1231257183 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=SHIMP.UPTON.R.1231257183 Date: 2014.08.07 08:50:21 -0500</p> <p style="text-align: center;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	<p>ENGINEERING DIVISON</p>	<p>FIEFFER.LAUR A.A.1230375727</p> <p style="font-size: small;">Digitally signed by FIEFFER.LAURA.A.1230375727 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FIEFFER.LAURA.A.1230375727 Date: 2014.06.11 07:28:09 -0500</p>	<p>TEST ENGINEER</p>	<p>FELICIANO.AD IN.1259200373</p> <p style="font-size: small;">Digitally signed by FELICIANO.ADIN.1259200373 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FELICIANO.ADIN.1259200373 Date: 2014.06.16 07:14:01 -0500</p>	<p>TEST REPORT</p>	<p>NA</p>	<p>CLASS</p>	<p>DIVISION</p>	<p>DRAWING</p>	<p>FILE</p>
	<p>EXPLOSIVE SAFETY DIRECTORATE</p>	<p>TRIVITT.TERRY .F.1230872011</p> <p style="font-size: small;">Digitally signed by TRIVITT.TERRY.F.1230872011 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=TRIVITT.TERRY.F.1230872011 Date: 2014.06.17 14:09:19 -0500</p>	<p>19</p>	<p>48</p>	<p>4116/ 37C</p>	<p>20PA1002</p>				

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1315-01-508-8521	CA30	1. 2. 2	E	681

*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



LOAD STRAP, 3/4" X .035" OR .031" OR .029" X 14'-7" LONG STEEL STRAPPING (2 REQD). SEE GENERAL NOTE "C" AT RIGHT.

TIEDOWN STRAP, 3/4" X .035" OR .031" OR .029" X 13'-6" LONG STEEL STRAPPING (3 REQD). SEE GENERAL NOTE "D" AT RIGHT.

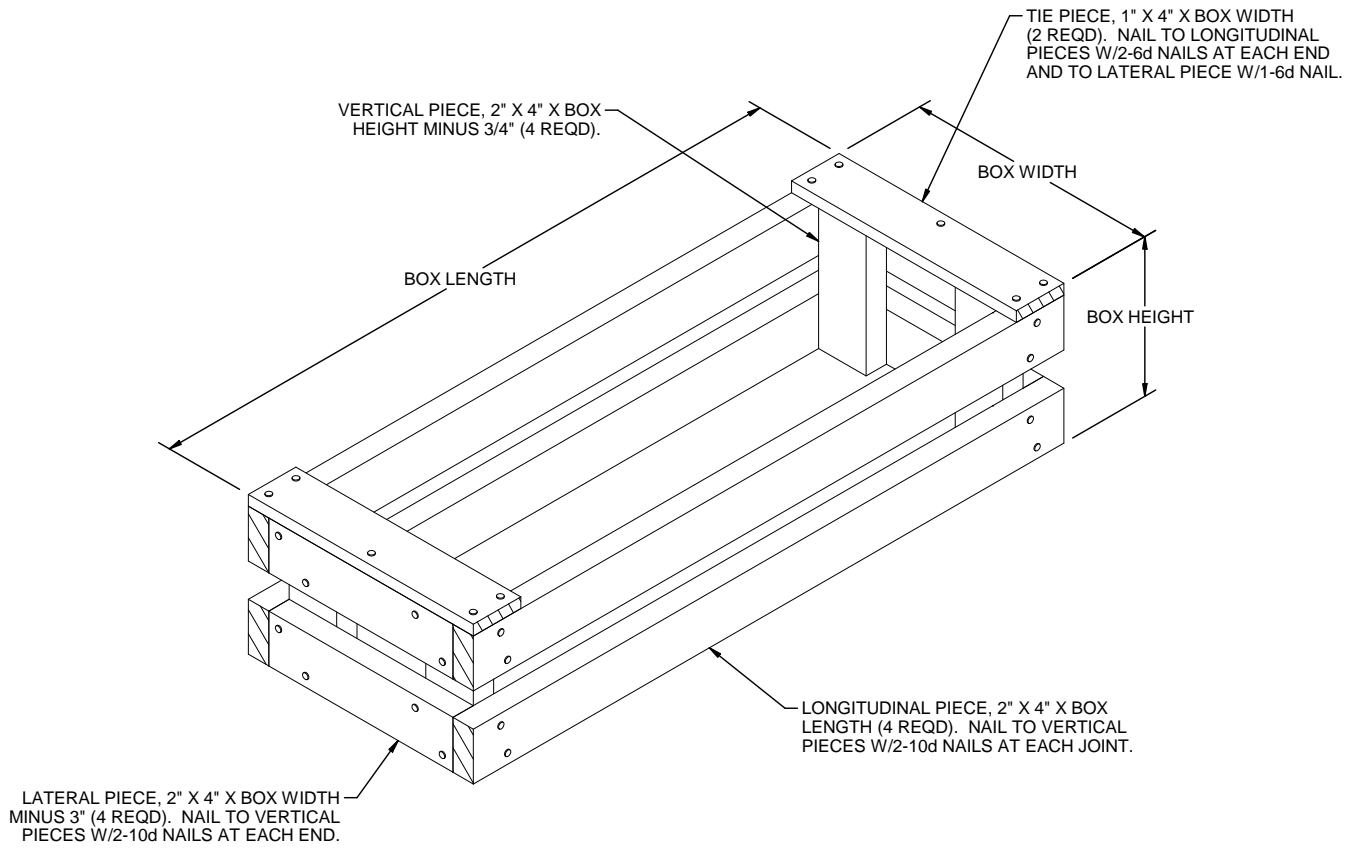
PALLET UNIT

SEE GENERAL NOTES "B" AND "J" AT RIGHT.

9 BOXES OF LAUNCHER AND CTG (2 PER BOX) @ 66 LBS	---	594 LBS
DUNNAGE	---	7 LBS
PALLET	---	80 LBS
TOTAL WEIGHT		681 LBS (APPROX)
CUBE		45.5 CU FT (APPROX)

BILL OF MATERIAL			
PALLET, 40" X 48"	1 REQD	---	80 LBS
STEEL STRAPPING, 3/4"	69.67' REQD	---	6.22 LBS
SEAL FOR 3/4" STRAPPING	5 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 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 - - - - 19-48-4118-1-2-3-4-14-22PA1002
 - 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 LAUNCHERS AND CARTRIDGES 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. THE PALLET UNITS DELIVERED THROUGH CONTRACT WITH SAAB BOFORS DYNAMICS AB ARE CONFIGURED EIGHT PER PALLET UNIT ON A NONSTANDARD PALLET. IF BOXES NEED TO BE REPALLETIZED, THEY MUST BE REPALLETIZED IN ACCORDANCE WITH THIS APPENDIX. IF AN EIGHT BOX QUANTITY IS DESIRED FOR REPALLETIZED UNITS INSTEAD OF THE NINE BOXES DEPICTED ABOVE, THE CENTER BOX IN THE TOP LAYER MUST BE REPLACED WITH A FILLER ASSEMBLY, AS SHOWN ON PAGE 4. THE NINE BOX CONFIGURATION DEPICTED ABOVE IS THE MOST ECONOMIC CONFIGURATION, HOWEVER THE EIGHT BOX SAAB BOFORS DYNAMICS AB NONSTANDARD PALLET UNIT, AS WELL AS AN EIGHT BOX UNIT CONFIGURED AS DISCUSSED WITH A FILLER ASSEMBLY, ARE ALSO ACCEPTABLE FOR USE.
- K. FOR DETAILS OF THE PLYWOOD BOX, SEE SAAB BOFORS DYNAMICS AB DRAWINGS 4113914, 4113921, AND 3074372.



FILLER ASSEMBLY
FOR MINUS ONE BOX.