

APPENDIX 65

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

**GRENADE, HAND, PACKED 16 PER WOODEN BOX,
UNITIZED 54 BOXES PER 40" X 48" PALLET;
APPROX BOX SIZE 16³/₈" L X 13³/₈" W X 7⁵/₈" H**

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ^①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1330-						
00-219-8511	G930	C	II-E	1.3	G	2,355
00-289-6851	G940	C	II-C	1.4	G	2,355
00-289-6854	G945	C	II-C	1.4	G	2,355
00-289-6852	G950	C	II-C	1.4	G	2,355
00-289-6853	G955	C	II-C	1.4	G	2,355
00-672-0194	—	—	—	—	—	1,707
00-965-0802	G963	IR	XI-B	1.4	G	2,355

REVISION

REVISION NO. 1, DATED MAY 1984, CONSISTS OF:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE
"PALLET UNIT DATA" CHART.

① 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).

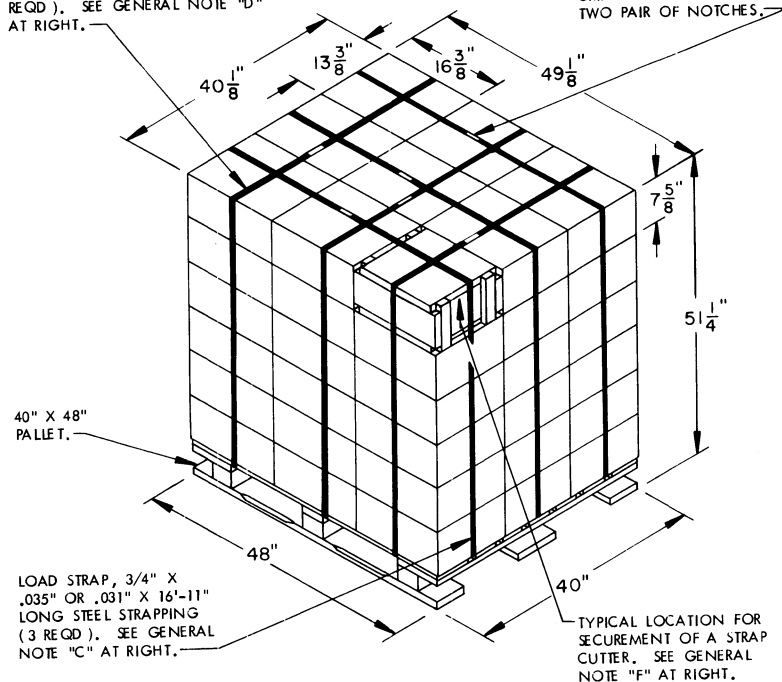
NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002.

REVISIONS				DRAFTSMAN BPK / pt	PROJ ENG WRFHWT
1	MAY 84	<i>WRFHWT</i> <i>WRFHWT</i>	<i>John T. Syngel</i> DRSMC-LEP (R) DRSMC-TMD (R)	<i>WRFHWT</i> 148	LOG ENGRD OFFICE <i>WRFHWT</i>
APPROVED U.S. ARMY ARMAMENT MATERIEL READINESS COMMAND DRSAR - LEP DRSAR - TMD					
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM) <i>John T. Syngel</i> U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL					
U. S. ARMY DARCOM DRAWING					
MARCH 1983					
CLASS	DIVISION	DRAWING	FILE		
19	48	4116/ 65	20PA 1002		

DO NOT SCALE

TIEDOWN STRAP, 3/4" X .035" OR .031" X 15'-5" LONG STEEL STRAPPING (3 REQD). SEE GENERAL NOTE "D" AT RIGHT.

SEAL FOR 3/4" STRAPPING (6 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

54 BOXES OF HAND GRENADE (16 PER BOX)	42 LBS	2,268 LBS (APPROX)
DUNNAGE		7 LBS
PALLET		80 LBS

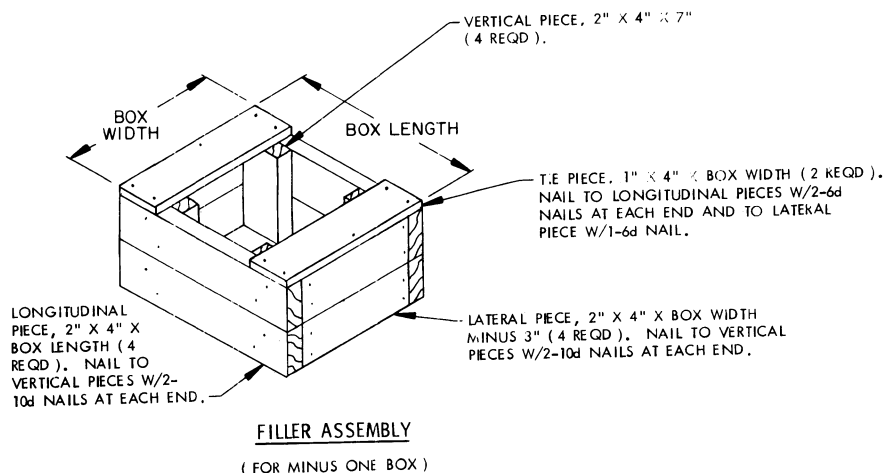
TOTAL WEIGHT	2,355 LBS (APPROX)
CUBE	58.5 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 3/4"	97.00' REQD	6,93 LBS
SEAL FOR 3/4" STRAPPING	6 REQD	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.
- 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 WILL BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING 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 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 DARCOM DRAWINGS ARE APPLICABLE FOR OUT-LOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.
 CARLOADING----- DRAWING 19-48-4115-5PA1002
 TRUCKLOADING ---- DRAWING 19-48-4117-11PA1003
 STORAGE----- DRAWING 19-48-4118-1-2-3-4-14- 22PA1002
- F. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.
- G. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- H. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING HAND GRENADES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON THE TITLE PAGE, 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.
- J. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 14'-2", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 15'-8". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 43'-5/8", A GROSS UNIT WEIGHT OF 1,977 POUNDS, AND A UNIT CUBE OF 49.8 CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL INTERMODAL FREIGHT CONTAINER, CONVENTIONAL VAN TRAILER OR CONVENTIONAL OR HIGH-CAPACITY 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.



FILLER ASSEMBLY
(FOR MINUS ONE BOX)