APPENDIX 159B

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

PRIMER, ELECTRIC, M80AI, PACKED 45 PER WOODEN BOX, UNITIZED 24 BOXES PER 40" X 48" PALLET; APPROX BOX SIZE $23\frac{3}{4}$" L X $16\frac{11}{16}$" W X $10\frac{7}{32}$" H

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ❶				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1390-00-228-8416	N547	C	III	(04)1.2	G	2,129

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

❶HAZARD 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).

		REVISIONS		DRAFTSMAN J6 / bh	PROJ ENG RAR /	
				CHECKER GRG/	LOG ENGRG OFFICE W + Ernst	
I	NOV 84			APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND		
				DRSMC – LEP(R)	DRSMC – TMD(R)	
				APPROVED/BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)		

U.S. ARMY DARCOM DRAWING

APRIL 1984

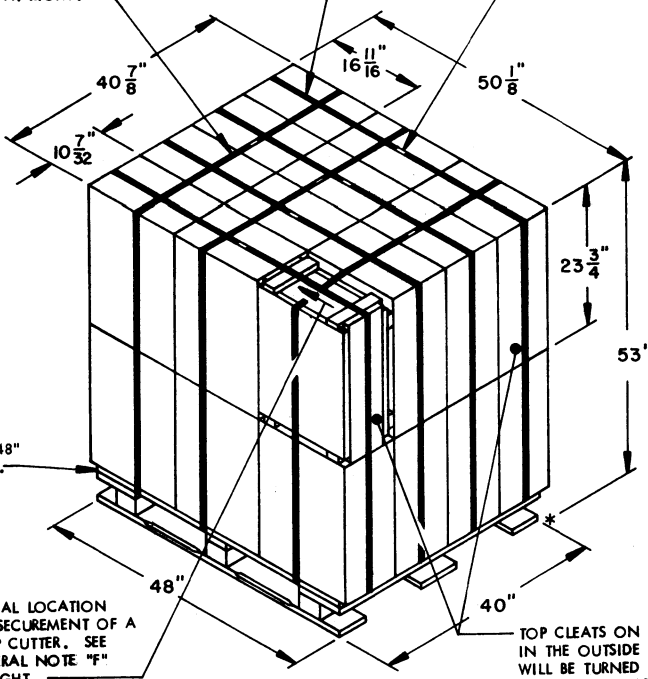| CLASS	DIVISION	DRAWING	FILE
19	48	4116/ 159B	20 PA 1002

DO NOT SCALE

TIEDOWN STRAP, 3/4" X .035" OR .031" X 15'-10" LONG STEEL STRAPPING (3 REQD). SEE GENERAL NOTE "D" AT RIGHT.

LOAD STRAP, 3/4" X .035" OR .031" X 17'-5" LONG STEEL STRAPPING (4 REQD). SEE GENERAL NOTE "C" AT RIGHT.

SEAL FOR 3/4" STRAPPING (7 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

40 7/8"

16 11/16"

50 1/8"

10 7/32"

23 3/4"

53"

40" X 48" PALLET.

TYPICAL LOCATION FOR SECUREMENT OF A STRAP CUTTER. SEE GENERAL NOTE "F" AT RIGHT.

48"

40"

TOP CLEATS ON THE BOXES IN THE OUTSIDE STACKS WILL BE TURNED INWARD, EXCEPT AS OTHERWISE SPECIFIED IN MIL-STD-129.

PALLET UNIT
SEE GENERAL NOTE "B" AT RIGHT.

24 BOXES OF ELECTRIC PRIMERS (45 PER BOX) @ 85 LBS ---------------- 2,040 LBS (APPROX)
DUNNAGE -- 9 LBS
PALLET --- 80 LBS

TOTAL WEIGHT -------------- 2,129 LBS (APPROX)
CUBE ---------------------- 62.8 CU FT (APPROX)

BILL OF MATERIAL				
PALLET, 40" X 48" -------------	1	REQD -------------	80	LBS
STRAPPING, 3/4" ------------- 117.17'	REQD ------------- 8.	37	LBS
SEAL FOR 3/4" STRAPPING -------	7	REQD -------------	NIL	

GENERAL NOTES

A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCE- DURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECI- FICATIONS, AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCE- DURES 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. LOAD STRAPS MUST BE PREPOSITIONED ON THE PALLET DECK PRIOR TO PLACING BOXES ON THE PALLET. LOAD STRAPS WILL NOT BE TENSIONED AND SEALED PRIOR TO APPLICA- TION 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 BE APPLIED BEFORE THE LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.

E. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR OUTLOADING 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 ELECTRIC PRIMERS WHEN IDEN- TIFIED 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 11'-11", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 13'-5". THIS WILL RESULT IN AN OVER- ALL UNIT HEIGHT OF 29-1/4", A GROSS UNIT WEIGHT OF 1,107 POUNDS, AND A UNIT CUBE OF 34.7 CUBIC FEET. ADDITIONALLY, THE UNIT LOAD MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR COMMER- CIAL INTERMODAL FREIGHT CONTAINER, CONVENTIONAL VAN TRAILER OR CONVENTIONAL OR HIGH-CAPACITY BOX- CAR. THE DETERMINATION TO REDUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RE- SPONSIBLE COMMAND AND WILL BE BASED UPON ECONO- MICS OF TRANSPORTATION AND HANDLING.
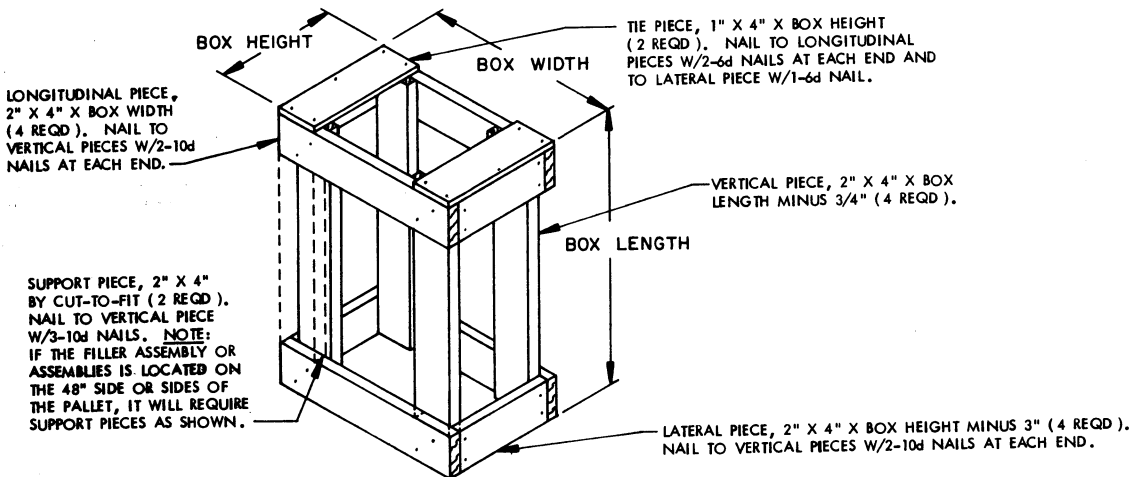
BOX HEIGHT

BOX WIDTH

TIE PIECE, 1" X 4" X BOX HEIGHT (2 REQD). NAIL TO LONGITUDINAL PIECES W/2-6d NAILS AT EACH END AND TO LATERAL PIECE W/1-6d NAIL.

LONGITUDINAL PIECE, 2" X 4" X BOX WIDTH (4 REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END.

VERTICAL PIECE, 2" X 4" X BOX LENGTH MINUS 3/4" (4 REQD).

BOX LENGTH

SUPPORT PIECE, 2" X 4" BY CUT-TO-FIT (2 REQD). NAIL TO VERTICAL PIECE W/3-10d NAILS. NOTE: IF THE FILLER ASSEMBLY OR ASSEMBLIES IS LOCATED ON THE 48" SIDE OR SIDES OF THE PALLET, IT WILL REQUIRE SUPPORT PIECES AS SHOWN.

LATERAL PIECE, 2" X 4" X BOX HEIGHT MINUS 3" (4 REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END.

FILLER ASSEMBLY
(FOR MINUS ONE BOX)

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