

# APPENDIX 15


## UNITIZATION PROCEDURES FOR MILITARY AMMUNITION AND COMPONENTS PACKED IN FIBERBOARD BOXES IN WIREBOUND OR FIBERBOARD 4-WAY ENTRY PALLET BOXES

CARTRIDGE, 22MM SUBCALIBER, PACKED 100 PER FIBERBOARD BOX; UNITIZED 16 BOXES PER WIREBOUND PALLET BOX (PALLET UNIT A) OR 16 BOXES PER FIBERBOARD PALLET BOX (PALLET UNIT B); APPROX BOX SIZE  $20\frac{1}{8}$ " L X  $20\frac{1}{8}$ " W X  $11\frac{3}{4}$ " H

PALLET UNIT DATA							
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)	
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	UNIT A	UNIT B
1305-							
01-175-5295	A685	C	I	1.4	S	2,076	2,085
01-175-5296	A686	C	I	1.4	S	2,076	2,085
01-175-5297	A687	C	I	1.4	S	2,076	2,085
01-175-5298	A688	C	I	1.4	S	2,076	2,085
01-175-7771	A691	C	I	1.4	S	2,076	2,085

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4169-20PA1006.

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).

REVISIONS				DRAWN BY	FILED BY		
				SW/mid	LAF/WRF		
				CHECKED	LOGGING OFFICE		
				GRB	WJF/DMT		
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL CENTER							
 WILLIAM F. ERNST U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL							
U.S. ARMY AMC DRAWING							
SEPTEMBER 1985							
				CLASS	DIVISION	DRAWING	FILE
				19	48	4169/15	20 PA 1006

**DO NOT SCALE**

### GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4169-20PA1006. 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 BOX UNIT WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX SHALL BE ACCOMPLISHED IN ACCORDANCE WITH AMC ( DARCOM ) DRAWINGS IDENTIFIED WITHIN DA PAMPHLET 75-5.
- D. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- E. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 22MM SUBCALIBER CARTRIDGES 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 THE OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.

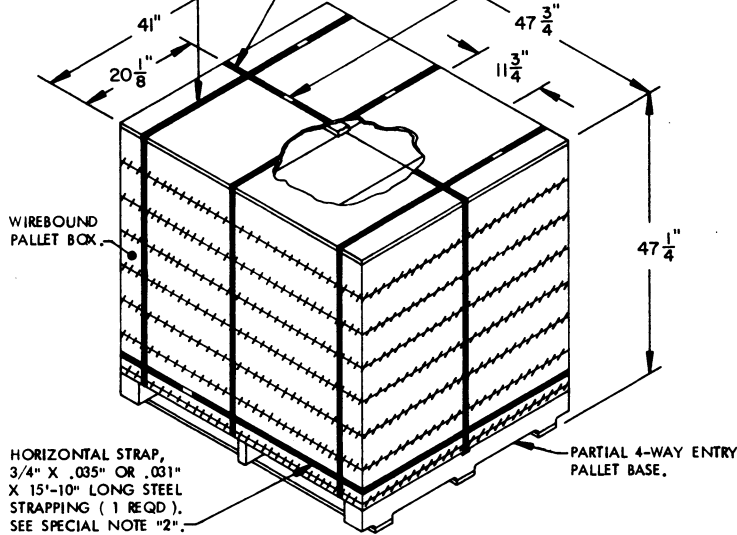
TIEDOWN STRAP, 3/4" X .035" OR .031" X 14'-11" LONG STEEL STRAPPING ( 3 REQD ). SEE SPECIAL NOTE "3".

LOAD STRAP, 3/4" X .035" OR .031" X 16'-0" LONG STEEL STRAPPING ( 1 REQD ). SEE SPECIAL NOTE "1".

SEAL FOR 3/4" STRAPPING ( 5 REQD, 1 PER STRAP ). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

**SPECIAL NOTES:**

1. THE LOAD STRAP MUST BE THREADED THROUGH THE STRAP SLOT OF THE PALLET AS SHOWN. LOAD STRAP MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF THE HORIZONTAL STRAP.
2. INSTALL HORIZONTAL STRAP TO ENCIRCLE PALLET BOX UNIT AS SHOWN. THE HORIZONTAL STRAP MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
3. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND LOCATE AS SHOWN. TIEDOWN STRAPS MAY BE APPLIED BUT NOT TENSIONED UNTIL THE HORIZONTAL AND LOAD STRAPS HAVE BEEN INSTALLED, TENSIONED AND SEALED.



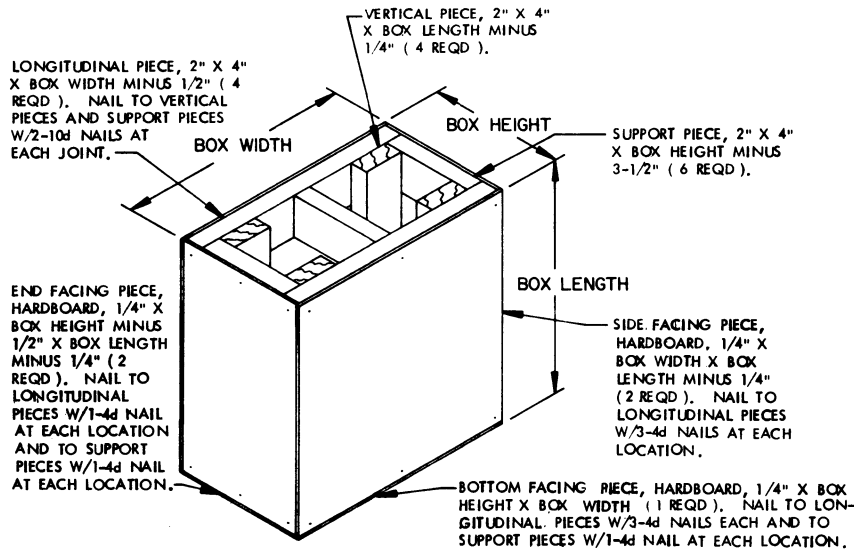
**PALLET UNIT A**

SEE GENERAL NOTE "B" ON PAGE 2.

16 BOXES OF 22MM SUBCALIBER CARTRIDGES ( 100 PER BOX )	120 LBS	-----	1,920 LBS ( APPROX )
DUNNAGE	6 LBS	-----	6 LBS
WIREBOUND PALLET BOX	150 LBS	-----	150 LBS
<b>TOTAL WEIGHT</b>		-----	<b>2,076 LBS ( APPROX )</b>
<b>CUBE</b>		-----	<b>53.5 CU FT ( APPROX )</b>

**BILL OF MATERIAL**

WIREBOUND PALLET BOX	-----	1 REQD	-----	150 LBS
STEEL STRAPPING, 3/4"	-----	76.58' REQD	-----	5.47 LBS
SEAL FOR 3/4" STRAPPING	-----	5 REQD	-----	NIL



**FILLER ASSEMBLY**

( FOR MINUS ONE BOX )

TIEDOWN STRAP 3/4" X .035" OR .031" X 15'-2" LONG STEEL STRAPPING (2 REQD). SEE SPECIAL NOTE "2".

FILLER PIECE, HONEYCOMB VOID FILLER, 2" X 41" X 40-1/4" (1 REQD.).

FILLER PIECE, TRI-WALL FIBERBOARD, 1/2" X 11-3/4" X 40-1/4" (2 REQD.).

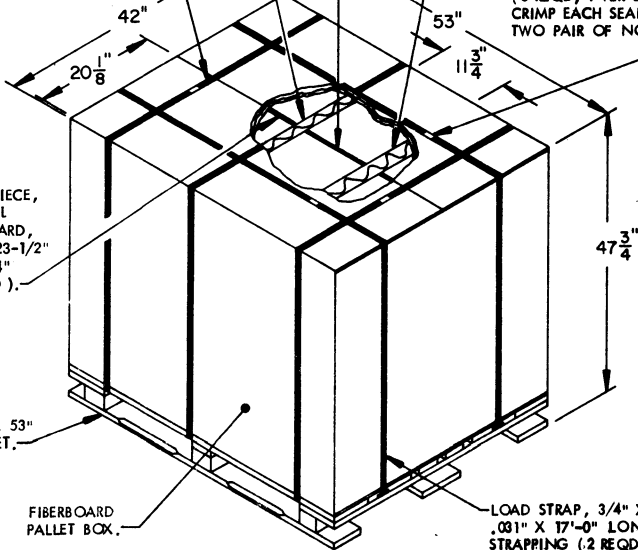
FILLER PIECE, HONEYCOMB VOID FILLER, 3" X 41" X 40-1/4" (1 REQD.). SEAL FOR 3/4" STRAPPING (5 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

FILLER PIECE, TRI-WALL FIBERBOARD, 1/2" X 23-1/2" X 40-1/4" (1 REQD.).

42" X 53" PALLET.

FIBERBOARD PALLET BOX.

LOAD STRAP, 3/4" X .035" OR .031" X 17'-0" LONG STEEL STRAPPING (2 REQD). SEE SPECIAL NOTE "1".



**PALLET UNIT B**

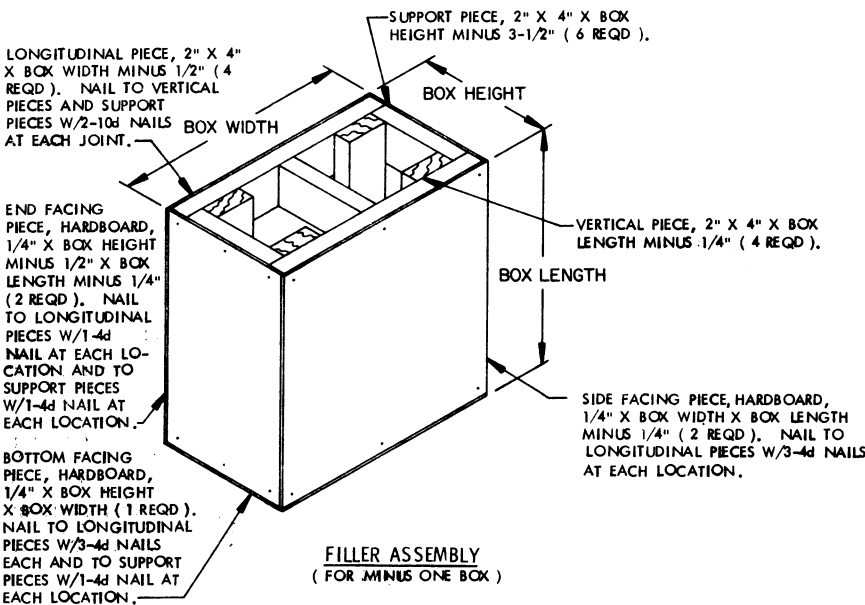
SEE GENERAL NOTE "B" ON PAGE 2.

16 BOXES OF 22MM SUBCALIBER CARTRIDGES (100 PER BOX) @ 120 LBS ----- 1,920 LBS (APPROX)  
 DUNNAGE ----- 21 LBS  
 FIBERBOARD PALLET BOX ----- 144 LBS

TOTAL WEIGHT ----- 2,085 LBS (APPROX)  
 CUBE ----- 61.5 CU FT (APPROX)

**BILL OF MATERIAL (UNIT B)**

FIBERBOARD PALLET BOX	1 REQD	144 LBS
HONEYCOMB, 2"	11.46 SQ FT REQD	3.81 LBS
HONEYCOMB, 3"	11.46 SQ FT REQD	4.93 LBS
TRI-WALL FIBERBOARD, 1/2"	13.14 SQ FT REQD	5.94 LBS
STEEL STRAPPING, 3/4"	79.50' REQD	5.68 LBS
SEAL FOR 3/4" STRAPPING	5 REQD	NIL



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

**SPECIAL NOTES:**

1. THE LOAD STRAPS MUST BE THREADED THROUGH THE STRAP SLOTS OF THE PALLET AS SHOWN. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
2. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET. TIEDOWN STRAPS MAY BE APPLIED BUT NOT TENSIONED UNTIL THE LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.