

UNITIZATION PROCEDURES FOR ARMOR
 TILE, M3, PACKED 3 PER WOODEN
 BOX, UNITIZED 18 BOXES PER 35" X
 45-1/2" PALLET; APPROX BOX SIZE
 17-1/8" L X 12-7/8" W X 15-5/8" H

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U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND <i>NLH</i>		DRAFTSMAN ENGINEER	BETTY J. KUNDERT SANDRA M. SCHULTZ
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U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		JULY 1987	
REVISION NO. 1	AUGUST 1995	CLASS	DIVISION
SEE THE REVISION LISTING ON PAGE 2		DRAWING	FILE
		19	48 4221/2 20PA 1009

DO NOT SCALE

PALLET UNIT DATA				
ITEMS INCLUDED		HAZARD CLASS AND DIVISION		APPROX WEIGHT LBS
NSN	DODIC	OD CLASS	COMP GROUP	
1375-				
01-257-3981	ML93	1.4	D	2,195
01-410-7414	ML93	1.4	D	2,573

- 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).

REVISION

REVISION NO. 1, DATED AUGUST 1995, CONSISTS OF:

1. CHANGING WEIGHT OF ITEM.
2. ADDING DODIC.
3. CHANGING HAZARD CLASS.
4. ADDING ITEM BY NATIONAL STOCK NUMBER TO "PALLET UNIT DATA" CHART.
5. CHANGING TITLE ON COVER PAGE FROM XMB TO M3.

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5) AND CONFORMS TO MIL-STD-1660.
- 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 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 UNLOADING AND STORAGE OF THE ITEMS COVERED BY THIS DRAWING.

CARLOADING - -	DRAWING 19-48-4115-5PA1002
TRUCKLOADING -	DRAWING 19-48-4117-11PA1003
STORAGE - - -	DRAWING 19-48-4118-1-2-3-4-14-22PA1002
END OPENING ISO CONTAINER - -	DRAWING 19-48-4153-15PA1002
MILVAN - - -	DRAWING 19-48-4166-15PA1003
SIDE OPENING ISO CONTAINER - -	DRAWING 19-48-4267-15PA1009

- F. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE AMC 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. WHEN APPLYING ANY STRAP, CARE MUST BE EXERCISED TO ASSURE THAT THE END OF THE STRAP ON THE UNDERSIDE OF THE JOINT EXTENDS AT LEAST 6" BEYOND THE SEAL. THIS EXTRA MINIMUM LENGTH OF STRAP IS REQUIRED TO PERMIT SUBSEQUENT TIGHTENING OF LOOSENED STRAPPING. RETENSIONING CAN BE ACCOMPLISHED WITHOUT REPLACING STRAPPING OR SPLICING STRAPPING THROUGH THE USE OF A FEEDWHEEL TENSIONING TOOL, MANUAL OR PNEUMATIC, AND THE APPLICATION OF ONE ADDITIONAL SEAL.

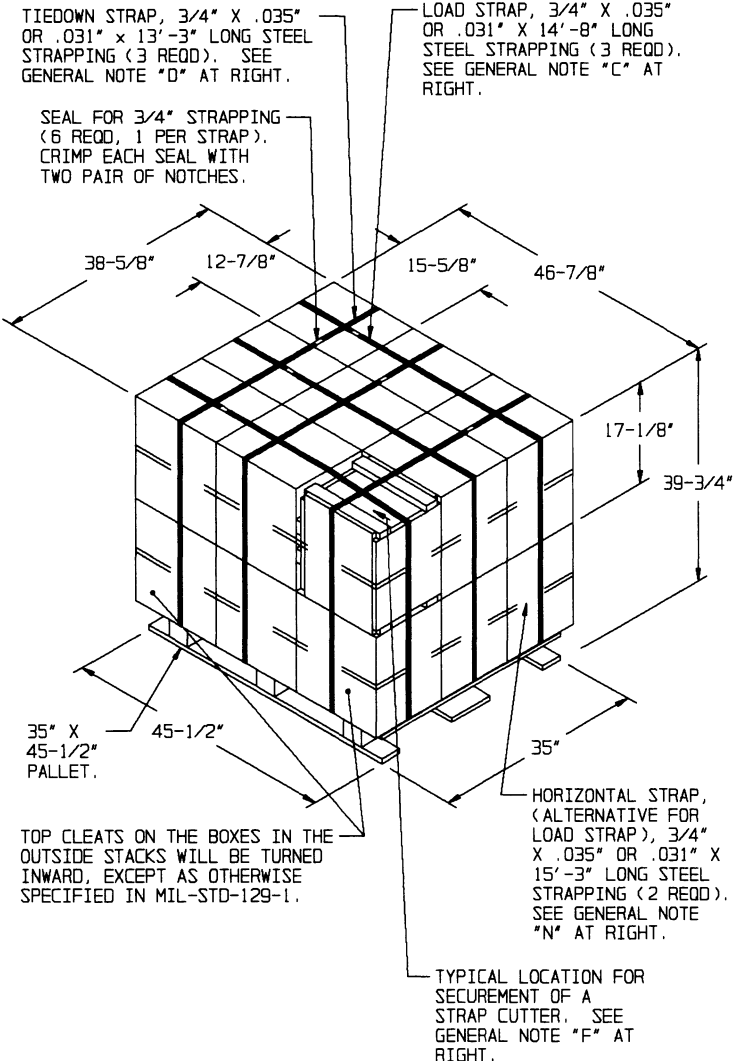
- J. ALL WOODEN DUNNAGE AND PALLETS MUST BE PRESERVATIVE TREATED WITH EITHER COPPER-8-QUINOLINOLATE OR ZINC NAPHTHENATE EMULSIFIABLE. PALLETS AND DUNNAGE ASSEMBLIES MUST BE ASSEMBLED PRIOR TO TREATMENT. THE LETTERS "PA" DENOTING PQ56 (COPPER-8-QUINOLINOLATE) OR "PB" DENOTING M-GARD W550 (ZINC NAPHTHENATE EMULSIFIABLE) MUST BE APPLIED TO THE OUTER FACE OF THE CENTER POSTS ON THE 45-1/2" SIDES OF THE PALLET IN LETTERS AT LEAST ONE-INCH HIGH.

- K. A PLUS OR MINUS 1/4" IS ALLOWED ON OVERALL DIMENSIONS OF ANY DUNNAGE ASSEMBLY. HOWEVER, SIMILAR PIECES IN AN ASSEMBLY MUST BE WITHIN 1/8" OF THE SAME DIMENSION.

- L. IN ORDER TO OBTAIN COMPACT (SOUND) UNITS, ALL STRAPS SHALL BE LOCATED IN PROPER ALIGNMENT AND TENSIONED UNTIL THEY CUT INTO THE EDGE OF THE PALLET DECK. AFTER TENSIONING ALL STRAPS WILL BE SECURED USING ONE SEAL AND TWO PAIR OF NOTCHES.

- M. DIMENSIONAL LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE UNLESS OTHERWISE SPECIFIED. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.

- N. HORIZONTAL STRAPS MAY BE USED IN LIEU OF LOAD STRAPS. HORIZONTAL STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.



PALLET UNIT

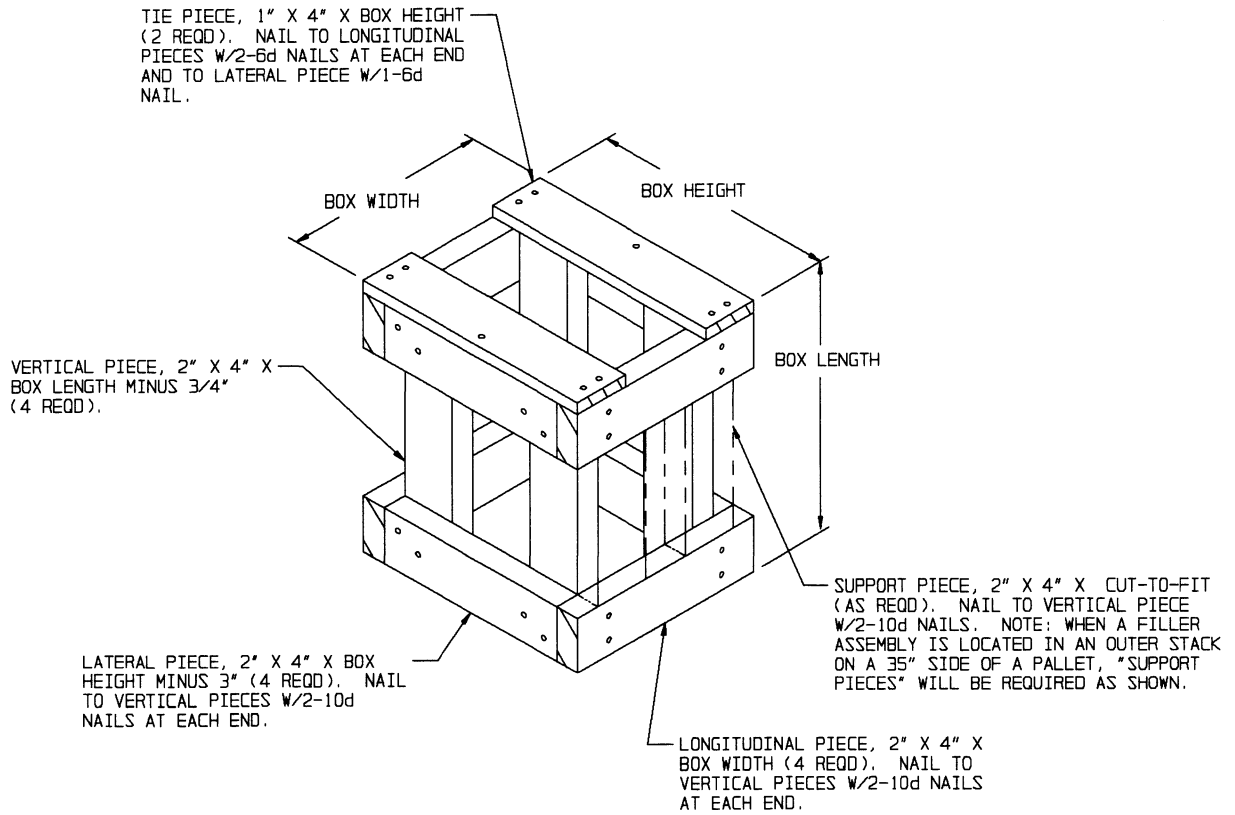
SEE GENERAL NOTE "B" AT RIGHT.

18 BOXES OF ARMOR TILES (3 PER BOX) AT 139 LBS - -	2,502 LBS (APPROX)
DUNNAGE - - - - -	6 LBS
PALLET - - - - -	65 LBS
TOTAL WEIGHT - - - - -	2,573 LBS (APPROX)
CUBE - - - - -	41.6 CU FT (APPROX)

MATERIAL SPECIFICATIONS

PALLET - - - - -	MIL SPEC MIL-P-15011; 4-WAY ENTRY, STYLE 1A, TYPE I, CLASS 1, PRESERVATIVE TREATED. SEE GENERAL NOTE "J".
LUMBER - - - - -	SEE TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC MM-L-751.
NAILS - - - - -	FED SPEC FF-N-105; COMMON. ALT: ANNULAR-RING TYPE NAIL, PALLET TYPE (MECHANICALLY DEFORMED) NAIL, OR COOLER NAIL OF SAME SIZE.
STRAPPING, STEEL - -	ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH B (GRADE 2), SIZE 3/4" X .035" OR .031".
SEAL, STRAP - - - -	ASTM D3953; CLASS H, FINISH B (GRADE 2), DOUBLE NOTCH TYPE, STYLE I, II, OR IV.

BILL OF MATERIAL	
PALLET, 35" X 45-1/2"	1 REQD - - - - - 65 LBS
STEEL STRAPPING, 3/4"	83.75' REQD - - - - - 5.98 LBS
SEAL FOR 3/4" STRAPPING	6 REQD - - - - - NIL



FILLER ASSEMBLY
 (FOR MINUS ONE BOX)