UNITIZATION PROCEDURES FOR ARMOR TILE, M4, PACKED 9 PER WOODEN BOX, UNITIZED 18 BOXES PER 35" X 45-1/2" PALLET; APPROX BOX SIZE 23-5/8" L X 15" W X 14-3/4" H

DISTRIBUTION STATEMENT A.

APPROVED FOR PUBLIC RELEASE;
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U.S. ARMY MA	TER	IEL (OMM.	AND DF	RAWING	
APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND WITH		DRAFTSMAN		BETTY J. KUNDERT		
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Dourd O. Perlynt Starte AMSTA-AR-ESK AMSIO-TMJ	The contraction of the contracti	SUPPLY ENGI	ion	TRANSPORTATION ENGINEERING DIVISION	VALIDATION ENGINEERING DIVISION	
APPROVED BY ORDER OF COMMANDING GENERAD, U.S. ARMY MATERIEL COMMAND U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL		Thom of Muchel				
		AUGUST 1987				
		CLASS	MOISIVIO	DRAWING	FILE	
REVISION NO. 2 OCTOBER	1995	19	48	4221/3	20PA	
SEE THE REVISION LISTING ON PAGE 2			'	'''	1009	

DO NOT SCALE

PALLET UNIT DATA								
ITEMS INCLUDED		HAZARD AND DIV	APPROX					
NSN	DODIC	OD CLASS	COMP GROUP	WEIGHT LBS				
1375- 01-257-3982 01-410-7413	ML94 ML94	1.4 1.4	٥٥	1,694 1,892				

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).

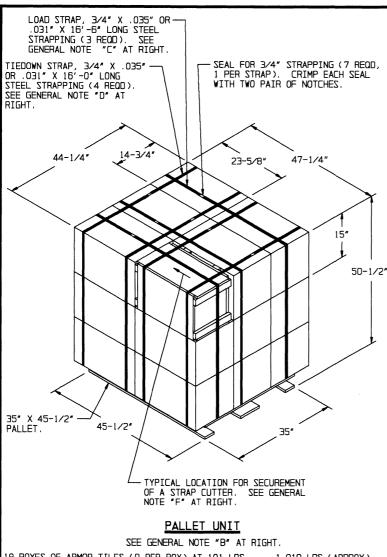
REVISION

REVISION NO. 1, DATED OCTOBER 1987, CONSISTS OF:

1. ADDING GENERAL NOTE "O".

REVISION NO. 2, DATED OCTOBER 1995, CONSISTS OF:

- 1. CHANGING THE TITLE FROM XM4 TO M4.
- 2. CHANGING DATA ON "PALLET UNIT DATA" CHART.



18 BOXES OF ARMOR TILES (9 PER BOX) AT 101 LBS - - 1,818 LBS (APPROX) DUNNAGE -9 1 85 65 LBS

> TOTAL WEIGHT -----1,892 LBS (APPROX) CUBE - - - - - - - - - 61.1 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2" - - - - 1 REOD - - - 65 LBS STEEL STRAPPING, 3/4" - 113.50' REOD - - 8.11 LBS SEAL FOR 3/4" STRAPPING - - - 7 REOD - - - NIL - - 8.11 LBS

MATERIAL SPECIFICATIONS

PALLET - - - - - -: MIL SPEC MIL-P-15011; 4-WAY ENTRY, STYLE 1A, TYPE I, CLASS 1, PRESERVATIVE TREATED. SEE GENERAL

LUMBER - - - - - -: SEE TM 743-200-1 (DUNNAGE LUMBER) AND

FED SPEC MM-L-751.

FED SPEC FF-N-105; COMMON. 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".

ASTM D3953; CLASS H, FINISH B (GRADE

2), DOUBLE NOTCH TYPE, STYLE I, II, OR IV.

GENERAL NOTES

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5) AND CONFORMS TO MIL-STD-1660
- 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
- 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
- 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 D. LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
- THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING 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

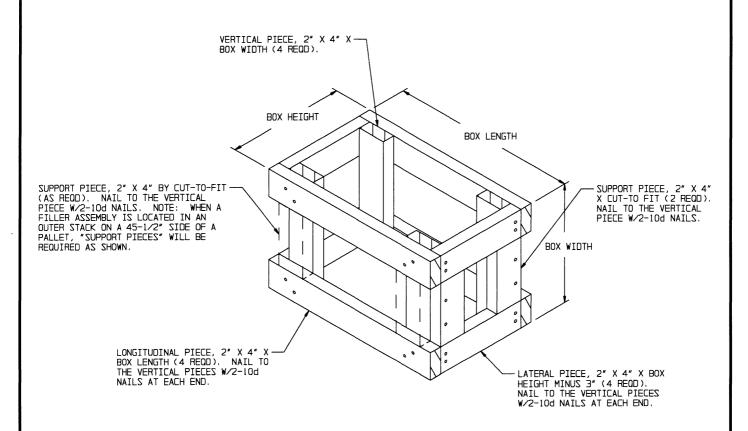
CONTAINER - - DRAWING 19-48-4153-15PA1002 MILVAN - - - DRAWING 19-48-4166-15PA1003

SIDE OPENING ISO

CONTAINER - - DRAWING 19-48-4267-15PA1009

- 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 ADDITIONAL SEAL.
- ALL WOODEN DUNNAGE AND PALLETS MUST BE PRESERVATIVE TREATED WITH EITHER COPPER-B-QUINOLINOLATE OR ZINC NAPHTHENATE EMULSIFIABLE. PALLETS AND DUNNAGE ASSEMBLIES MUST BE ASSEMBLED PRIOR TO TREATMENT. THE LETTERS "PA" DENOTING POSE (COPPER-B-QUINOLINOLATE) OR "PRESENCE OF THE MARKET HATTER "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.
- 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.
- DIMENSIONAL LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DIMENSIONAL LOMBER 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.
- THE UNIT LOAD DEPICTED AT LEFT MAY BE REDUCED BY A LAYER WHEN BEING SHIPPED BY MILVAN OR COMMERCIAL INTERMODAL FREIGHT CONTAINER. IF ONE LAYER OF BOXES IS OMITTED, THE TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 13'-6", THE TIEDDWN STRAP LENGTHS MUST BE DECREASED TO 13'-6', AND THE LOAD STRAP LENGTHS MUST BE REDUCED TO 14'-0'. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 35-1/2", GROSS UNIT WEIGHT OF 1,152 POUNDS, AND A UNIT CUBE OF 43.0 CUBIC FEET. 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 LAND WILL BE BASED UPON ECONOMICS OF TRANSPORTATION AND HANDLING
- O. THE STYLE 1A PALLET DELINEATED IN THE DETAIL AT LEFT NEED NOT HAVE CHAMFERS OR STRAP SLOTS AS SPECIFIED WITHIN MILITARY SPECIFICATION MIL-P-15011 WHEN USED FOR UNITIZATION OF THE ITEMS COVERED BY THIS APPENDIX.

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FILLER ASSEMBLY (FOR MINUS ONE BOX)