CHAPARRAL

PALLETIZED UNIT LOAD OF M 121 ROCKET MOTOR (NAVY: MK50 MOD 0), PACKED ONE PER PLYWOOD BOX

REVISION

REVISION NO. 1, DATED JUNE 1985, CONSISTS OF:

- 1. CHANGING PALLET.
- 2. CHANGING DRAWING FORMAT.

REVISIONS			JAM Y	從人	200	374	DR 811	n / Gmn
	e4/	an Adem	RSHA	BF	ilu	Ville		
I JUN 85	W.E.	William F Ernst	William & Goranen					
		· ·			<u> </u>			
	$V \perp$		SATERIEL DEVELOPMENT AND PREADMESS COMMAND (SANCOS) JELIN L BUNN JY, U.S. ARMY DEFENSE AMMUNTION CENTER AND SCHOOL					O (DARCOM)
	/							
			U.S. ARMY DARCOM DRAWING					
	7		JANUARY 1980					
			CLASS	DIVI	SION	DRAWIN	16	FILE
	/		19	4	8	524	13	20CH2
	JUN 85	· (4/	of an Action	JUN 85 William & Brest William St. Brest William	JUN 85 JE JAN STELL APPROVED IL A AMERICAN STERRES SEVELOPMENT STERRES SEVELOPMENT U.S. ARRANGE	JUN 85 JUN STEEL APPROVED ILLE ABOVE BIRDER APPROVED ILLE ABOVE BIRDER APPROVED ILLE ABOVE BIRDER APPROVED IN COLOR APPR	JUN 85 JE JULIAN FROM SOME OF THE STATE OF T	JUN 85 JUNE STATE STATE OF THE AMENING STATE OF THE

DO NOT SCALE

GENERAL NOTES

- A. 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.
- 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. FOR DETAILS OF PLYWOOD BOX, SEE DRAWING NO. 13060326:

BOX DIMENSIONS ------81" LONG X 13-3/4" WIDE X 13-3/4" HIGH.
GROSS WEIGHT ------160 POUNDS (APROX).

- D. CAUTION: ALL BOXES WILL BE PLACED ON THE PALLET BASE WITH THE NOSE END IN ONE DIRECTION.
- E. FOR OUTLOADING AND STORAGE OF THE PALLETIZED UNIT, SEE THE FOLLOW-ING LISTED DRAWINGS:
 - LOADING AND BRACING IN BOX CARS DRAWING NO. 19-48-4123-5PA1003.
 - LOADING BRACING IN TRAILERS (FOR HIGHWAY SHIPMENT) DRAWING NO. 19-48-4124-11PA1004.
 - STORAGE IN IGLOO AND STRADLEY MAGAZINES DRAWING NO. 19-48-4125-1-2-3-4-14-22PA1003.
- F. DIMENSIONAL LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF A 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.
- G. A PIUS OR MINUS 1/4" IS ALLOWED ON OVERALL DIMENSIONS OF ANY DUN-NAGE ASSEMBLY. HOWEVER, SIMILAR PIECES IN AN ASSEMBLY MUST BE WITH-IN 1/8" OF THE SAME DIMENSION.
- H. WHEN ASSEMBLING A "SPECIAL PALLET", CARE SHALL BE TAKEN TO INSURE THAT THE BOXES ARE EVENLY ALIGNED SO THAT THE SIDES AND ENDS OF THE PALLET UNIT DO NOT EXCEED A 1/2" TOLERANCE.
- J. 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 CRIMPED WITH TWO PAIR OF NOTCHES PER SEAL. ALL STRAPPING MUST BE STRAIGHT WITHIN 2" ON ANY SURFACE OF THE UNITIZED LOAD; I.E., TOP, BOTTOM, SIDES, OR ENDS THAT IT ENCOMPASSES.
- K. 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 TYPE TENSIONING TOOL, MANUAL OR PNEUMATIC, AND THE APPLICATION OF ONE ADDITIONAL SEAL.
- L. FOR THE METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000: 137.
- M. THE UNITIZATION PROCEDURES DEPICTED IN THIS DRAWING WILL REQUIRE THE USE OF A SPECIAL PALLET. SPECIFICATIONS PERTAINING TO THE MATERIAL TO BE USED IN CONSTRUCTION OF THE PALLET UNIT ARE CONTAINED ON PAGE 3. FOR CONSTRUCTION SPECIFICATIONS, SEE THE "SPECIAL PALLET" DETAIL AND KEY NUMBERS ON PAGE 5.
- N. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCU-MENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS, WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454KG.
- O. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN.
- P. THE LETTERS "PA" DENOTING PQ56 COPPER-QUINOLINOLATE OR "PB" DENOTING M-GARD W550 (ZINC NAPHTHENATE EMULSIFIABLE) MUST BE APPLIED TO A PRESERVATIVE TREATED PALLET. THE LETTERS WILL BE AT LEAST ONE-INCH HIGH AND WILL BE APPLIED ON THE OUTER FACE OF ONE OF THE CENTER POSTS.

al / 1215 35

医邻角性 经帐户 医胸部外丛

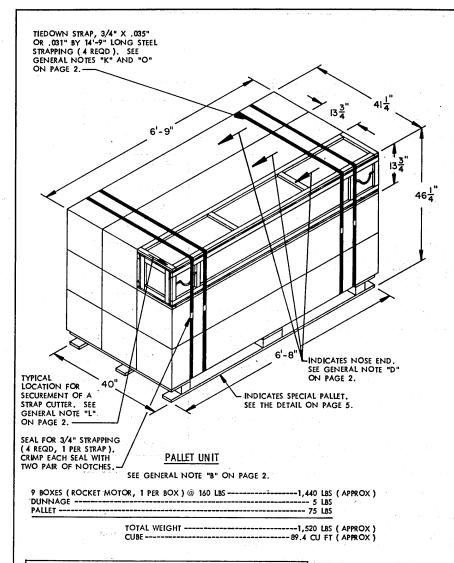
Borra karvita uko dila

DAME TO BE STORY

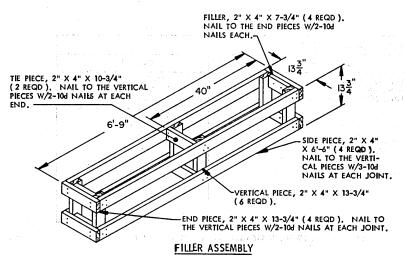
	MA	TERIAL SPECIFICATIONS	FOR PALLET UNITS		
		SPECIAL PALLET (SI	EE PAGE 5)		
			MATERIAL	SPEC NO.	
NAME OF PART	KEY NO.	KIND	GRADE		
TOP DECK BOARD	18.2	WOOD CLASS 2 STRUCTURAL	GROUP III (SEE TABLE 1)		
POST	5 & 6		GROUP III (SEE TABLE 1)	MIL-STD-731	
STRINGER BOARD	3	•	GROUP III (SEE TABLE 1)	MIL-STD-731	
RUNNER	4	•	GROUP III (SEE TABLE 1)	MIL-STD-731	
NAILS	1, 2 & 4	1, 2 & 4 SEE KEY NO.'S		FED SPEC FF-N-105	
PRESERVATIVE	WOOD PRESERY OR M-GARD V				
		PALLET UNIT AS	SSEMBLY		
NAME OF PART		SPEC NO.			
NAME OF PART		KIND	GRADE		
LUMBER	DUNNAGE		SEE TM 743-200-1, DUNNAGE LUMBER	FED SPEC MM-L-751	
NAILS	соммон		ALT: ANNULAR-RING TYPE NAIL OR PALLET TYPE (MECHANICALLY DE- FORMED) NAIL OF THE SAME SIZE	FED SPEC FF-N-105	
STRAPPING	STEEL, 3/4" X	.035" OR .031"	CLASS I, TYPE I OR IV, HEAVY DUTY, FINISH B (GRADE 2)	FED SPEC QQ-S-781	
SEAL, STRAP	STEEL		TYPE D, STYLE I, II OR IV, CLASS H, FINISH B (GRADE 2)	FED SPEC QQ-S-781	
STAPLE, STRAP	STEEL, 15/16"	X 3/4" LEG LENGTH	TYPE III, STYLE 3	FED SPEC FF-N-105	
		FILLER ASSE	MBLY		
		MATERIA	ıL		
KIND		GRADE			
WMBER	SEE TM 743-200-1, DUNNAGE LUMBER			FED SPEC MM-L-751	
NAILS	COMMON, ALT: ANNULAR-RING TYPE NAIL OR PALLET TYPE (MECHANICALLY DEFORMED) NAIL OF THE SAME SIZE.			FED SPCE FF-N-10	
PLYWOOD	GROUP B (CONSTRUCTION & INDUSTRIAL) WOOD, CLASS 2 STRUCTURAL, GRADE CD (INTERIOR WITH EXTERIOR GLUE)			FED SPEC NN-P-350	

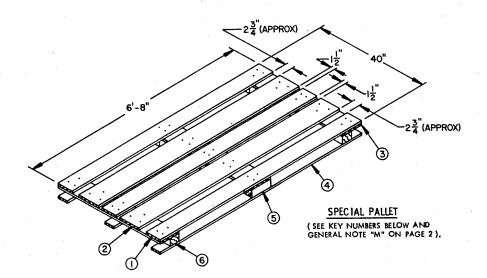
GROUP ELM, AMERICAN ASH (EXCEPT W PINE, SOUTHER GUM MAPLE, SOFT LARCH, WESTER FR, DOUGLAS	N WHITE) N YELLOW		HICH PEC/ ELM BRC HAC	, ROCK	OR YELLOW
ASH (EXCEPT W PINE, SOUTHER GUM MAPLE, SOFT LARCH, WESTER	WHITE) N YELLOW		PEC/ ELM BIRC HAC	AN , rock :h, sweet (:kberry	OR YELLOW
SYČAMORE	(COAST)		BEEC	UST	
	TUPELO, WATE	TUPELO, WATER	TUPELO, WATER	TUPELO, WATER LOC OAI	TUPELO, WATER LOCUST OAK

st the wood groups as identified above are only applicable to the fabrication of the special pallet.



BILL OF MATERIAL						
PALLET, 40" X 6'-8" 1 REQD STEEL STRAPPING, 3/4" 59.00' REQD SEAL FOR 3/4" STRAPPING 4 REQD	4.21 LBS					





KEY NUMBERS

- (1) TOP DECK BOARD, 1" X 6" X 6"-8" (3 REQD). NAIL THRU STRINGER PIECE INTO POST W/3 NAILS (TYPE II-STYLE 18) 3" TO 3-1/4" LONG X .135" DIA AT EACH END AND IN THE CENTER USING A STAGGERED NAILING PATTERN.
- (2) TOP DECK BOARD, 1" X 8" X 6'-8" (2 REQD). NAIL TO STRINGER PIECE W/3 NAILS (TYPE TI-STYLE 18) 1-1/2" LONG X .120" DIA AT EACH END AND IN THE CENTER USING A STAGGERED NAILING PATTERN.
- 3 STRINGER, 1" X 8" X 40" (3 REQD). POSITION AS SHOWN.
- (4) RUNNER, 1" X 4" X 6'-8" (3 REQD.). POSITION AS SHOWN AND NAIL TO POST W/4 NAILS (TYPE II-STYLE 18) 2-1/4" LONG X 0.120" DIA AT EACH JOINT USING A STAGGERED NAILING PATTERN.
- \bigcirc CENTER POST, 3-1/2" WIDE X 2-3/4" HIGH X 7-1/2" LONG (ACTUAL) (3 REQD).
- (6) POST, 3-1/2" WIDE X 2-3/4" HIGH X 3-1/2" LONG (ACTUAL) (6 REQD).