UNITIZATION PROCEDURES FOR CHEMICAL FILLED PROJECTILES, 105 MM AND 4.2-INCH, UNITIZED 24 PROJECTILES PER SPECIAL 4-WAY ENTRY PALLET

 THE PROCEDURES DELINEATED IN THIS DRAWING ARE FOR INTRA-INSTALLATION MOVEMENT ONLY.

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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 PROJECTILES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. DETAILS OF THE 105MM AND 4.2" PROJECTILES

HEIGHT,	105MM19-1/2"
WEIGHT,	105MM32 LBS (APPROX)
HEIGHT,	4.2"18-1/2"
WEIGHT.	4.2"22 LBS (APPROX)

- D. 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.
- E. A PLUS OR MINUS 1/8" IS ALLOWED ON OVERALL DIMENSIONS OF THE PALLET OR ANY DUNNAGE ASSEMBLY, HOWEVER, SIMILAR PIECES IN AN ASSEMBLY MUST BE WITHIN 1/8" OF THE SAME DIMENSION. HOLE DIMENSION TOLERANCES ARE PLUS 0", MINUS 1/16".
- F. WHEN ASSEMBLING A PALLET UNIT, CARE SHALL BE TAKEN TO INSURE THAT THE COVER ASSEMBLY AND PALLET ARE EVENLY ALIGNED HORIZONTALLY AND VERTICALLY SO THAT THE SIDES AND ENDS OF THE PALLET UNIT DO NOT EXCEED A 1/2" TOLERANCE.
- G. 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 COVER ASSEMBLY AND THE PALLET DECK. AFTER TENSIONING, ALL STRAPS WILL BE SECURED USING ONE SEAL CRIMPED WITH TWO PAIR OF NO TCHES PER SEAL.
- 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 TYPE TENSIONING TOOL, MANUAL OR PNEUMATIC, AND THE APPLICATION OF ONE ADDITIONAL SEAL.
- J. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN.
- K. DUE TO PALLET UNIT DESIGN, A MAXIMUM OF 20 PROJECTILES MAY BE OMITTED FROM A PALLET TO SATISFY A LESS THAN-FULL PALLET UNIT REQUIREMENT. NO FILLER ASSEMBLES ARE REQUIRED FOR THE OMITTED PROJECTILES PROVIDED THE FOUR REMAINING ONES ARE PLACED IN THE FOUR CORNER LOCATIONS.
- L. FOR STORAGE OF THE ITEMS COVERED BY THIS DRAWING, REFER TO AMC DRAWING 19-48-4539-CB1-14PE2.

MATERIAL SPECIFICATIONS

LUMDER	FED SPEC MM-L-751.
NAILS	: FED SPEC FF-N-105; COMMON., ALT: ANNULAR- RING TYPE NAIL OR PALLET TYPE (MECHANICALLY DEFORMED) NAIL OF THE SAME SIZE.
STRAPPING, STEEL	:FED SPEC QQ-S-781; CLASS 1, TYPE I OR IV, HEAVY DUTY, FINISH B (GRADE 2), SIZE 3/4" X .035" OR .031".
SEAL, STRAP	: FED SPEC QQ-5-781; TYPE D, STYLE I, II, OR IX, CLASS H, FINISH & (GRADE 2).
STAPLE, STRAP	: FED SPEC FF-N-105; TYPE III, STYLE 3, SIZE 15/16" WIDE, 3/4" LEG LENGTH.
PLYWOOD	: GROUP B, CONSTRUCTION AND INDUSTRIAL PLYWOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR EXTERIOR GRADE MAY BE SUBSTITUTED; FED SPEC NN-P-530.
PALLET	: SPECIAL 4-WAY ENTRY, SIZE 28-3/8" LONG BY 38-5/8" WIDE. PALLET SHALL BE CONSTRUCTED OF WOODS FROM GROUPS 1, 2, OR 3, OR ANY COMBINATION THEREOF, AS SPECIFIED IN MIL-5TD-731.

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

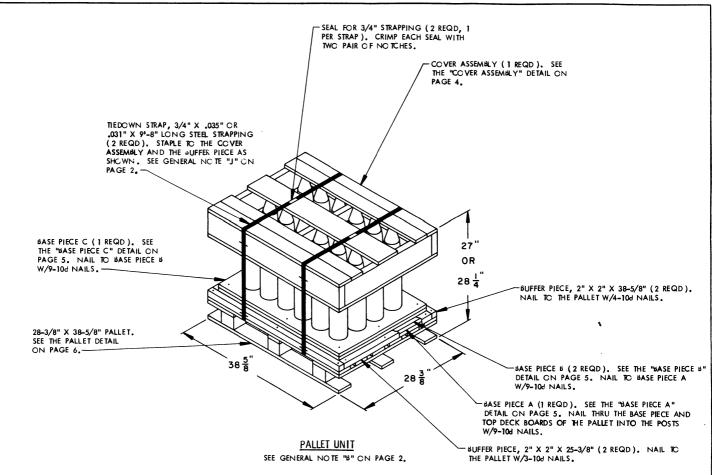
REVISION

REVISION NO. 1, DATED JULY 1989, CONSISTS OF:

CHANGING DIMENSIONS ON THE BASE PIECES AND THE SPACER PIECE.

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LIMARER ----

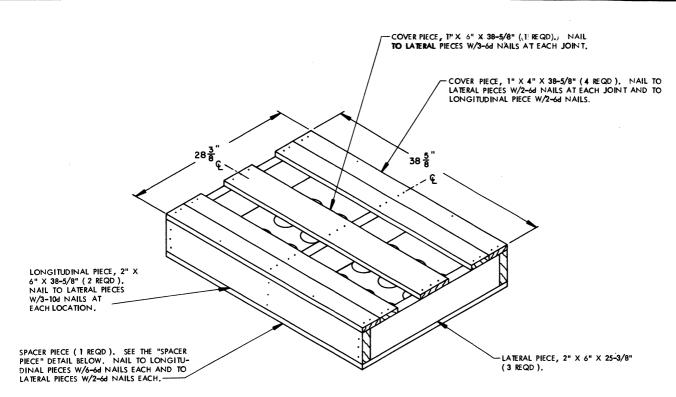


PALLET UNIT DATA

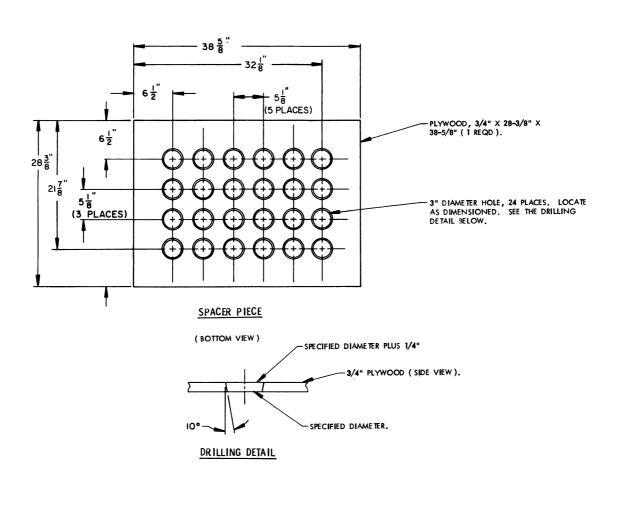
24 4.2" OR 105MM PROJECTILES @ 22 OR 32 LBS 528 OR 768 L	BS
DUNNAGE 115 LBS	
PALLET35 LBS	

	BILL OF MATERIAL (PALLET UNIT)
LUMBER	LINEAR FEET	BO ARD FEET
1" X 4" 1" X 6" 2" X 2" 2" X 6"	12.88 3.22 10.67 12.78	4.30 1.61 3.56 12.78
NAILS	NC . REQD	POUNDS
6d (2") 10d (3")	55 62	0,33 0,95
STEEL STRAPPING, 3/4 SEAL FOR 3/4" STRAPI STAPLES, 15/16" X 3/	-5/8" 1 REC 4"19.33' RE PING 2 REC 4" 8 REC 32.72 SQ	QD 1.38 LBS QD NIL QD NIL

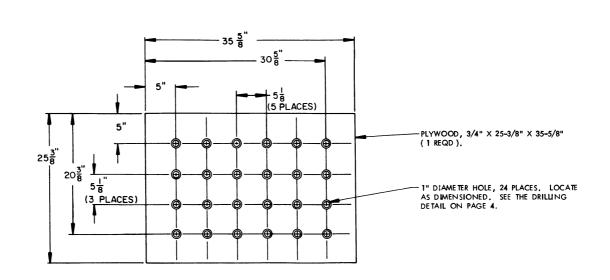
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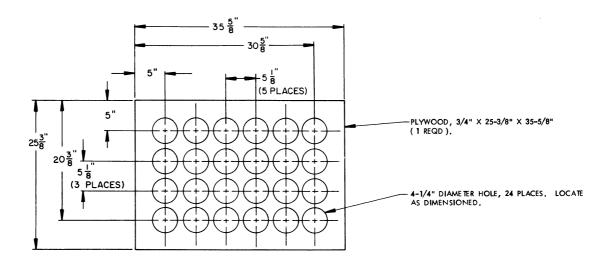
COVER ASSEMBLY



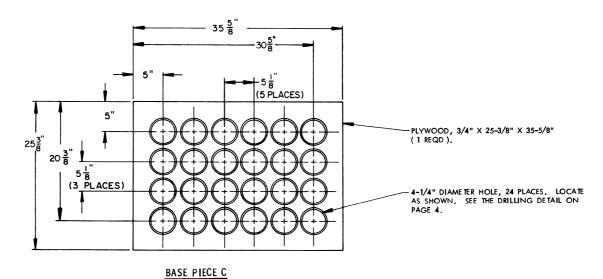
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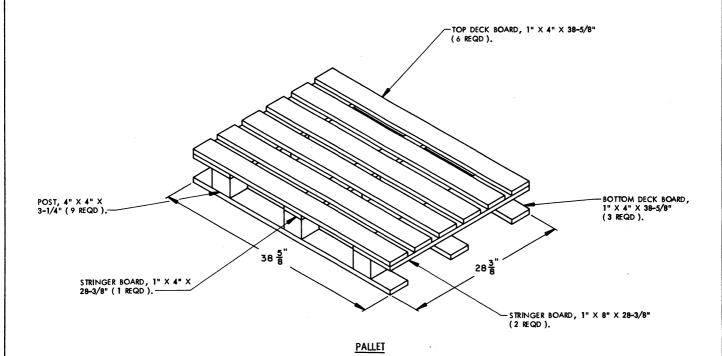
BASE PIECE A



BASE PIECE B



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NOTE: THIS PALLET WILL BE CONSTRUCTED AND ASSEMBLED IN ACCORDANCE WITH MIL-P-19011, TYPE I, CLASS 1, STYLE IA PALLETS WITH THE FOLLOWING EXCEPTIONS.

- A. THE PALLET MAY BE CONSTRUCTED OF WOODS FROM GROUPS 1, 2, OR 3, OR ANY COMBINATION THEREOF, AS SPECIFIED IN MIL-STD-731.
- B. THE LUMBER WILL BE SIZED AS SPECIFIED ABOVE.
- C. NAILS MAY BE TYPE II, STYLE 10 OR TYPE II, STYLE 18, AS SPECIFIED IN FED SPEC FF-N-105.

LUMBER	LINEAR FEET	BOARD FEET
I" X 4"	31.33	10.45
1" X 8"	4.73	3.16
4" X 4"	2.44	3.25
NAILS *	NO. REQD	POUNDS
4d (1-1/2")	36	0.13
8d (2-1/2")	27	0.28
12d (3-1/4")	27	0.45

* SEE PART C OF THE NOTE ABOVE.