

UNITIZATION PROCEDURES FOR
 CHEMICAL AGENT IDENTIFICATION
 TRAINING SETS, PACKED ONE PER
 CYLINDRICAL METAL CONTAINER,
 UNITIZED 16 CONTAINERS PER 40"
 X 48" 4-WAY ENTRY PALLET

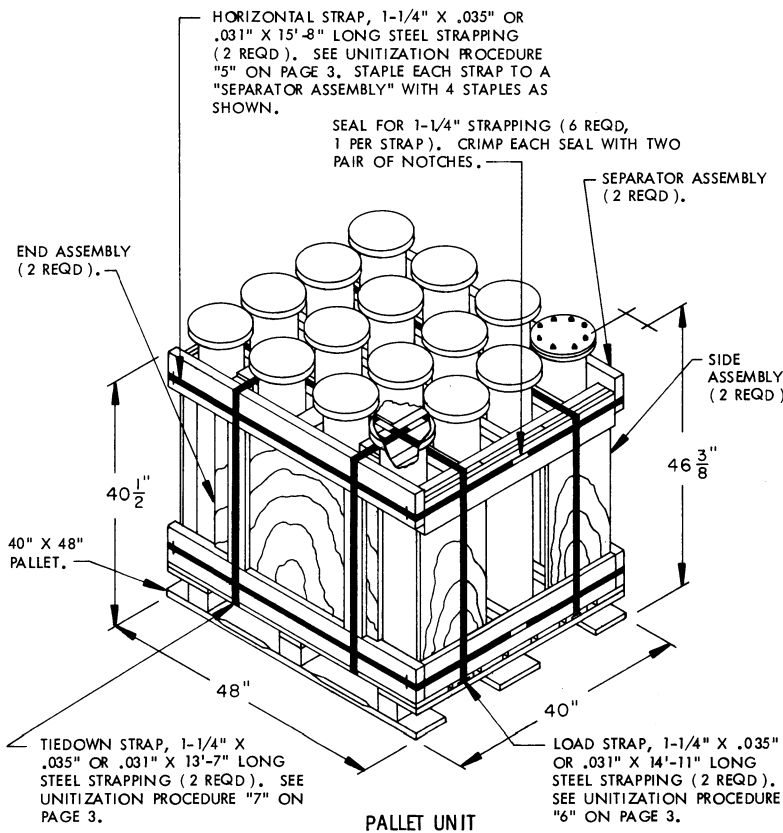
REVISIONS				DRAFTSMAN	PROJ ENG
				<i>WFB/mex</i>	<i>WRF/RLW</i>
				CHECKED BY	LOC ENG'NG OFFICE
				<i>WFB/007</i>	<i>[Signature]</i>
APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND					
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				ORBAR - MAD	ORBAR - TM
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)					
				<i>[Signature]</i>	DARCOM AMMO CENTER
U. S. ARMY DARCOM DRAWING					
APRIL 1978					
CLASS	DIVISION	DRAWING	FILE		
19	48	4568	20PM 1000		

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. FOR ADDITIONAL GUIDANCE, SEE "UNITIZATION PROCEDURES" ON PAGE 3.
- C. DETAIL OF THE CHEMICAL AGENT IDENTIFICATION TRAINING SET METAL CONTAINER:
CONTAINER DIMENSIONS ---- BODY ---- 6-5/8" DIAMETER (APPROX)
FLANGE --- 9-1/4" DIAMETER (APPROX)
OVERALL HEIGHT --- 40-1/8" (APPROX)

GROSS WEIGHT ----- 110 LBS (APPROX)
- D. 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.
- E. 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.
- F. 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 DUNNAGE ASSEMBLY AND THE PALLET DECK. AFTER TENSIONING, ALL STRAPS WILL BE SECURED USING ONE SEAL AND TWO PAIR OF NOTCHES PER SEAL. ALL STRAPPING MUST BE STRAIGHT WITHIN TWO INCHES (.2") ON ANY SURFACE OF THE UNITIZED LOAD; I.E., TOP, BOTTOM, SIDES OR ENDS THAT IT ENCOMPASSES.
- G. 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 TENSIONING TOOL, AS MANUFACTURED BY SEVERAL COMPANIES, AND THE APPLICATION OF ONE ADDITIONAL SEAL.



16 EACH CHEMICAL IDENTIFICATION SETS IN CONTAINER @ 110 LBS ---- 1,760 LBS
 DUNNAGE ----- 237 LBS
 PALLET ----- 80 LBS

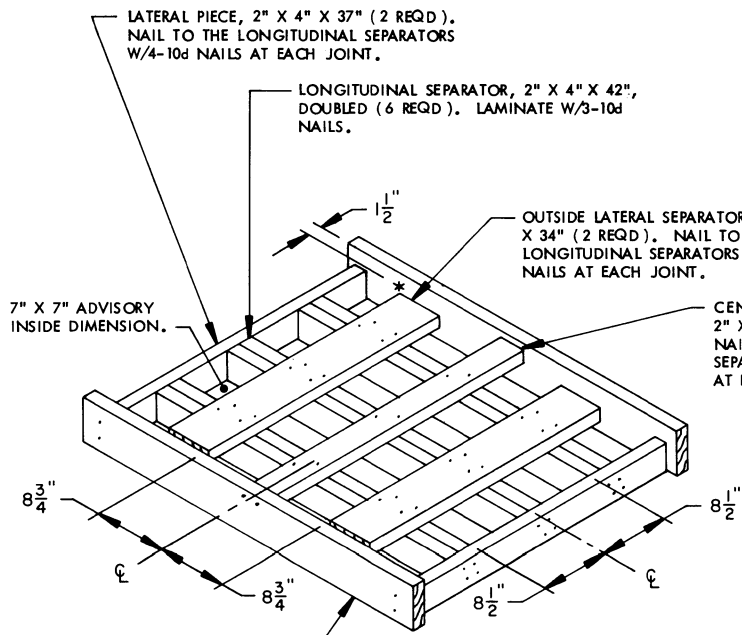
TOTAL WEIGHT ----- 2,077 LBS (APPROX)
 CUBE ----- 51.5 CU FT (APPROX)

MATERIAL SPECIFICATIONS

- PALLET** ----- : 4-WAY ENTRY, SIZE 40" X 48", STYLE I, TYPE I, CLASS 1, PRESERVATIVE TREATED, MIL SPEC MIL-P-15011.
- LUMBER** ----- : SEE TM 743-200-1, DUNNAGE LUMBER. FED SPEC MM-L-751.
- NAILS** ----- : COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105. ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.
- STRAPPING, STEEL** ---- : CLASS I, TYPE I OR IV, HEAVY DUTY, FINISH B (GRADE 2), FED SPEC QQ-S-781. (1-1/4" X .031" OR .035").
- SEAL, STRAP** ----- : TYPE D, STYLE I, II, OR IV, CLASS H, FED SPEC QQ-S-781.
- STAPLE, STRAP** ----- : TYPE III, STYLE 3, FED SPEC FF-N-105.
- PLYWOOD** ----- : GROUP B, CONSTRUCTION AND INDUSTRIAL PLYWOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D, FED SPEC NN-P-530. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE MAY BE SUBSTITUTED.

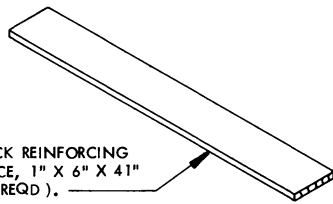
BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	8.00	2.67
1" X 6"	26.00	13.00
2" X 4"	71.67	47.78
2" X 6"	27.33	27.33
NAILS	NO. REQD	POUNDS
10d (3")	204	3.14
PLYWOOD, 5/8"	22 SQ FT REQD	39 LBS
PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 1-1/4"	88.33' REQD	12.62 LBS
SEAL FOR STRAPPING (1-1/4")	6 REQD	NIL
STRAP STAPLE, 1-17/32" WIDE BY 3/4" LEG LENGTH, OR EQUIVALENT	8 REQD	NIL



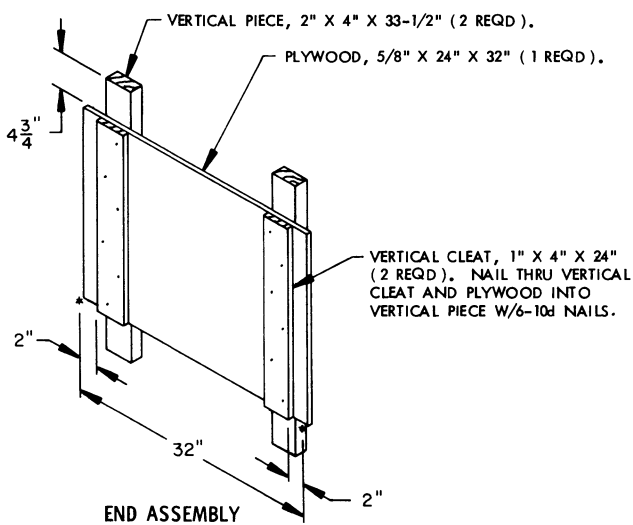
LONGITUDINAL PIECE, 2" X 6" X 48" (2 REQD). NAIL TO LATERAL PIECES W/2-10d NAILS AT EACH END AND TO CENTER LATERAL SEPARATOR W/2-10d NAILS.

SEPARATOR ASSEMBLY
(2 REQD)



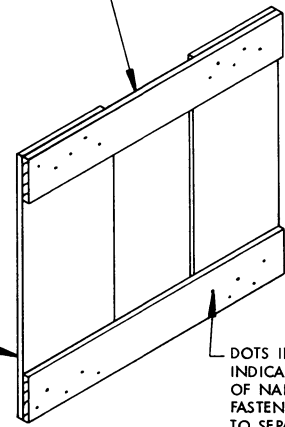
DECK REINFORCING PIECE, 1" X 6" X 41" (4 REQD).

DECK REINFORCEMENT



END ASSEMBLY
(2 REQD)

HORIZONTAL CLEAT, 1" X 6" X 37" (2 REQD). IF DESIRED TO AID IN ASSEMBLY OF THE "SIDE ASSEMBLY" TO THE PALLET UNIT, THE HORIZONTAL CLEATS CAN BE NAILED TO THE PLYWOOD W/1-4d NAIL AT EACH JOINT.



SIDE ASSEMBLY
(2 REQD)

UNITIZATION PROCEDURES

1. CENTER ONE "SEPARATOR ASSEMBLY" ON THE PALLET DECK AND POSITION THE "DECK REINFORCING PIECES" IN THE LONGITUDINAL SLOTS OF THE "SEPARATOR ASSEMBLY".
2. CENTER 2 "END ASSEMBLIES" ON THE "SEPARATOR ASSEMBLY".
3. PLACE THE OTHER "SEPARATOR ASSEMBLY" ON TOP OF THE "END ASSEMBLIES". NAIL THRU THE LONGITUDINAL PIECES OF THE "SEPARATOR ASSEMBLIES" INTO THE VERTICAL PIECES OF THE "END ASSEMBLIES" W/1-10d NAIL AT EACH JOINT.
4. POSITION "SIDE ASSEMBLIES" AGAINST THE "SEPARATOR ASSEMBLIES" AND NAIL THRU THE HORIZONTAL CLEAT AND PLYWOOD OF THE "SIDE ASSEMBLIES" INTO THE LATERAL PIECES OF THE "SEPARATOR ASSEMBLIES" W/5-10d NAILS AT EACH LOCATION.
5. INSTALL EACH HORIZONTAL STRAP TO ENCIRCLE THE PREVIOUSLY POSITIONED ASSEMBLIES, NEAR TOP AND BOTTOM. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF LOAD STRAPS.
6. INSTALL LOAD STRAPS TO PASS THRU THE STRAP SLOTS OF THE PALLET AND TO BE LOCATED AS SHOWN IN THE COMPLETE UNIT ON PAGE 2. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
7. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN IN THE COMPLETE UNIT ON PAGE 2. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
8. INSTALL THE 16 CHEMICAL AGENT IDENTIFICATION TRAINING SET CONTAINERS IN THE 7" X 7" HOLES INSURING THAT THE BOTTOM OF EACH CONTAINER IS RESTING ON THE "DECK REINFORCING PIECE".

