APPROVED BY BUREAU OF EXPLOSIVES

DATE 5/5/93

LOADING AND BRACING IN MILVAN
CONTAINERS OF ROCKET POD
W/WARHEAD MINUS INJECTOR ASSEMBLY
(RP(-)) FOR THE MULTIPLE LAUNCH
ROCKET SYSTEM (MLRS) BINARY
CHEMICAL WARHEAD

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- LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.
- ONLY MILVAN CONTAINERS WHICH HAVE BEEN MODIFIED TO INCLUDE A MECHANICAL LOAD-BRACING SYSTEM THAT SATISFIES THE REQUIREMENTS OF THE BUREAU OF EXPLOSIVES PAMPHLET 6C WILL BE USED FOR THE MOVEMENT OF AMMUNITION BY T/COFC SERVICE.

 CAUTION: OTHER REQUIREMENTS OF PAMPHLET 6C ALSO APPLY.

U.S. ARMY MATERIEL COMMAND DRAWING				
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND	DRAFT	NAMZ	TECHNICIAN	ENGINEER
CHEMICAL COMMAND				L. FIEFFER
Juntly R. Fore				
APPROVED BY ORDER OF COMMANDING GENERAL, U.S.	VALIDA ENGINES	RING	TRANSPORTATION ENGINEERING DIVISION	LOGISTICS ENGINEERING OFFICE
		ML	W. Frere	R WF Einst
William of Ears T	U		JULY 199	33
U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL	CLASS	DIVISIO	ON DRAWING	FILE
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GENERAL NOTES

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) BINARY CHEMICAL WARHEAD (BCW) MINUS INJECTOR ASSEMBLY (IA) WHEN PACKED IN THE ROCKET POD CONTAINER (RP(-)). SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE RP(-) WITH WARHEAD ASSEMBLIES
- C. FOR DETAIL OF THE ROCKET POD CONTAINER (RP(-)) SEE PAGE 5.

CONTAINER DIMENSIONS - - 13'-10" LONG X 41-1/2" WIDE X 33" HIGH

GROSS WEIGHT - - - - - 3,968 POUNDS (APPROX)

- THE OUTLOADING PROCEDURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIPMENT OF THE DEPICTED CONTAINERS WHEN THEY ARE LOADED WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY NOMENCLATURE THAN THE ITEM DESIGNATED WITHIN THE DRAWING TITLE.
- THE LOADS AS SHOWN ARE BASED ON A 20' LONG BY 8' WIDE BY 8' HIGH MILVAN CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 92" WIDE BY 87" HIGH. THE LOADS ARE DESIGNED FOR TRAILER/CONTAINER-ON-FLATCAR (T/COFC) SERVICE.
- THE SPECIFIED OUTLOADING PROCEDURES ARE FOR CONTAINERS EQUIPPED WITH SELF-CONTAINED MECHANICAL BRACING DEVICES AS DESCRIBED WITHIN BUREAU OF EXPLOSIVES PAMPHLET BC. CROSS EQUIPPED WITH SELF-CONTAINED MECHANICAL BRALING DEVILES AS DESCRIBED WITHIN BUREAU OF EXPLOSIVES PAMPHLET EC. CROSS MEMBER ATTACHMENT FACILITIES WITHIN THESE CONTAINERS MUST PROVIDE FOR THE INSTALLATION OF LOAD BLOCKING CROSS MEMBERS AT THE HEIGHTS SPECIFIED. THE HEIGHT DIMENSIONS SPECIFIED WITHIN THIS DRAWING FOR INSTALLATION OF CROSS MEMBERS CONFORM WITH BUREAU OF EXPLOSIVES PAMPHLET 6C, WITH THE EXCEPTION THAT TWO ADDITIONAL BELT RAILS HAVE BEEN SHOWN; ONE AT 72" AND ONE AT 83" HEIGHT FROM THE CONTAINER FLOOR. VOIDS LENGTHWISE WITHIN THE LOAD MUST BE HELD TO A MINIMUM. CROSS MEMBERS MUST BE PLACED AGAINST THE LADING AS TIGHTLY AS THE HOLE SPACING IN THE CROSS MEMBER WILL BE INSTALLED WITH THE ENDS ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS (AT EQUAL HEIGHTS AND AT EQUAL DISTANCES FROM THE END OF THE CONTAINER). CROSS MEMBERS IN EMPTY CONTAINERS AND THOSE NOT USED IN LOADED CONTAINERS MUST BE FASTENED INTO BELT RAILS FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH CONTAINER MUST BE FASTENED THOSE NOT USED IN LOADED THE FILL DETAIL" ON PAGE 7 FOR THE DUNNAGING METHOD REQUIRED TO ELIMINATE AN EXCESSIVE VOID WITHIN A LOAD. THE LOAD BLOCKING COMPONENTS DESIGNATED AS "CROSS MEMBER" HEREIN, IS IDENTIFIED AS "BEAM ASSEMBLY" WITHIN THE SEAM ASSEMBLY IS FURTHER IDENTIFIED AS NSN 8115-00-165-8623. ASSEMBLY IS FURTHER IDENTIFIED AS NSN 8115-00-165-6623.
- VOIDS BETWEEN THE END GATE AND THE LADING MUST NOT EXCEED 1/2". ADDITIONAL MATERIAL MAY BE ADDED, OR THINNER MATERIAL MAY BE USED TO ACHIEVE THE PROPER THICKNESS AS
- THE 1-3/8" THICK DIMENSIONAL LUMBER SPECIFIED IN THE FILL MATERIAL DETAIL CAN BE MADE BY PLANING NOMINAL 2" X 4" MATERIAL TO THE PROPER THICKNESS. ALSO, STRIPS OF PLYWOOD CAN BE USED AS FILL MATERIAL. USE PLYWOOD OF DIFFERENT THICKNESS TO ACHIEVE THE SPECIFIED 1-3/8"
- DUNNAGE LUMBER SPECIFIED IS OF A NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY -1/2" WIDE, UNLESS OTHERWISE SPECIFIED.

(CONTINUED AT RIGHT)

GENERAL NOTES

LUMBER - - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC MM-L-751.

PLYW00D - - - - -: COMMERCIAL ITEM DESCRIPTION A-A-55057,

TYPE A, CONSTRUCTION AND INDUSTRIAL PLYMOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE MAY BE SUBSTITUTED.

ASTM A853; ANNEALED AT FINISH, BLACK OXIDE FINISH, .0800" DIA, GRADE 1006 OR WIRE, CARBON STEEL -:

BETTER.

(GENERAL NOTES CONTINUED)

- K. <u>CAUTION</u>: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE.
- L. A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- M. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS ONE OF THE SIDEWALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.

N. MAXIMUM LOAD WEIGHT CRITERIA:

THE ITEMIZED LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALSO, THESE LISTED LOAD WEIGHTS
IDENTIFY THE COMBINED WEIGHT OF AMMUNITION LADING UNITS
AND DUNNAGE THAT CAN BE PLACED INTO ONE MILVAN CONTAINER WITHOUT VIOLATING ONE OR MORE OF THE "CAPABILITY FACTORS".

39,100 LBS IN 20-FT CONTAINER (W/O CHASSIS) ABOARD CONTAINERSHIP

39,100 LBS IN CONTAINER ON 20-FT CHASSIS WITH DOUBLE BOGIE. SEE NOTE 3

25,300 LBS IN CONTAINER ON 20-FT CHASSIS WITH SINGLE BOGIE. SEE NOTE 4. 21,300 LBS IN EACH CONTAINER ON 40-FT CHASSIS (COUPLED

WITH DOUBLE BOGIE) SEE NOTE 3.

TE 1: DUNNAGE INCLUDES MATERIALS, OTHER THAN COMPONENTS THE MECHANICAL LOAD BRACING SYSTEM, USED TO BLOCK AND

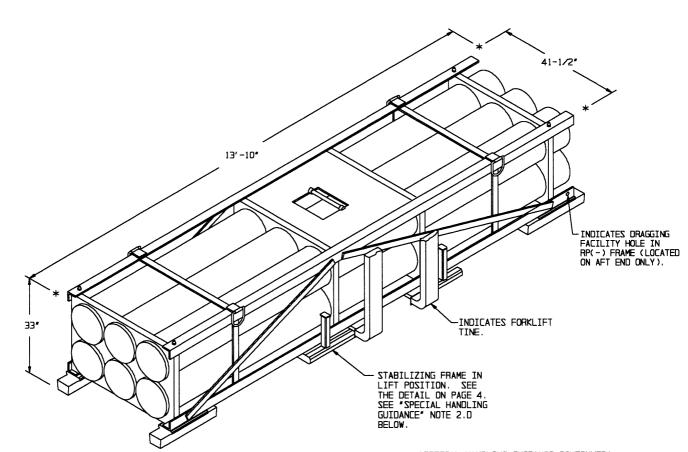
NOTE 2: ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE ADJUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS. ADDITIONAL INSTRUCTIONS ARE FURNISHED IN THE "SPECIAL NOTE(S)" SECTION FOR EACH LOAD VIEW.

NOTE 3: DEPENDING ON TRANSPORTATION ROUTING, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY "WEIGHT LAWS" OF CERTAIN STATES. ALSO, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY OTHER WEIGHT RESTRICTIONS IMPOSED ON THE MILVAN SYSTEM.

NOTE 4: BY SPECIAL AUTHORITY, IT MAY BE POSSIBLE TO MOVE HEAVIER LOADS ON SINGLE BOGIE CHASSIS WITHIN AN INSTALLATION.

O. SPECIAL T/COFC NOTES:

- 1. CAUTION: LOADED CONTAINERS MUST BE ON CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE, REGARDLESS OF LOAD WEIGHT WITHIN THE CONTATNERS.
- 2. LOAD LIMITS OF T/COFC RAIL CARS MUST NOT BE EXCEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UNDER ONE END OF THE CAR CARRIES MORE THAN ONE—HALF OF THE LOAD I TMTT FOR THAT CAR.
- 3. CHASSIS CONTAINERS COUPLED INTO 40-FOOT TRAILER CONFIGURATION MUST BE PLACED AT THE B-END OF A TOFC RAIL CAR. THE REAR END OF THE 40-FOOT UNIT WILL OVERHANG THE END OF THE CAR IF IT IS PLACED AT THE TWENTY-FOOT AND 40-FOOT UNITS CAN BE LOADED ON THE SAME CAR.
- O. IF THE CONTAINERS BEING SHIPPED ARE EQUIPPED WITH FORKLIFT THE CONTAINERS BEING SHIPPED ARE EQUIPPED WITH PORKLITTUNNELS, THE TUNNELS MUST BE REMOVED AND SECURED ON TOP OF OR AT THE REAR OF THE LOAD PRIOR TO SHIPMENT. SECUREMENT CAN BE ACCOMPLISHED BY WIRE-TIEING OR STRAPPING THE TUNNELS TO THE RP(-) FRAMEWORK IN SUCH A MANNER TO PRECLUDE DAMAGE TO THE RP(-) DURING SHIPMENT.



ROCKET POD CONTAINER (RP(-))

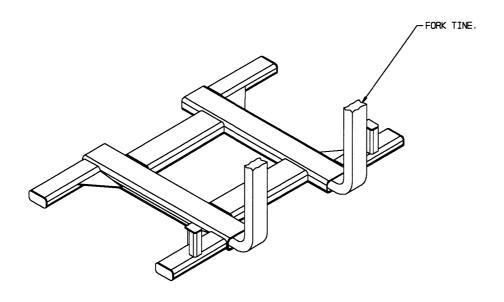
SPECIAL HANDLING GUIDANCE

- 1. POD STACKING FOR OUTLOADING PURPOSES.
 - A. THE UPPER POD SHOULD BE PLACED AS CLOSELY AS POSSIBLE IN VERTICAL ALIGNMENT WITH THE LOWER POD.
 - B. WHEN STACKING THESE PODS, CARE MUST BE EXERCISED TO ENSURE THAT THE INTERLOCKING HOLES IN THE BOTTOM OF THE POD SKIDS ALIGN CORRECTLY WITH THE INTERLOCKING PINS ON THE TOP OF THE POD FRAME. THIS WILL PRECLUDE DAMAGE TO THE SKIDS AND ENSURE PROPER FUNCTIONING OF THE POD INTERLOCKS.
- 2. POD OR POD STACK HANDLING.
 - NOTES: (1) MATERIALS HANDLING EQUIPMENT (MHE) IS
 INTENDED TO MEAN EQUIPMENT SUCH AS FORKLIFT
 TRUCKS, CRANES, HAND TRUCKS, DOLLIES, ROLLER
 ASSEMBLIES, SLINGS, SPREADER BARS, AND
 STABILIZING FRAMES.
 - (2) PRECAUTIONARY HANDLING TECHNIQUES NORMALLY EMPLOYED OR AS SPECIFIED FOR THE TYPE OF COMMODITY INVOLVED WILL BE OBSERVED.
 - A. ONLY APPROVED AND APPROPRIATELY SIZED MHE WILL BE USED FOR HANDLING THE DEPICTED PODS.
 - B. IF HANDLING IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE TIMES OF THE FORKLIFT ARE TO BE INSERTED INTO THE MLRS POD STABILIZING FRAME SHOWN IN THE DETAIL ON PAGE 4. THE FORKLIFT CARRIAGE IS TO BE CENTERED ON THE CENTER OF GRAVITY OF THE MLRS RP(-). NOTE: 1/4" SAFETY CHAINS ARE NOT SHOWN BUT WILL BE WELDED TO THE STABILIZING FRAME FOR SECUREMENT TO THE FORKLIFT CARRIAGE

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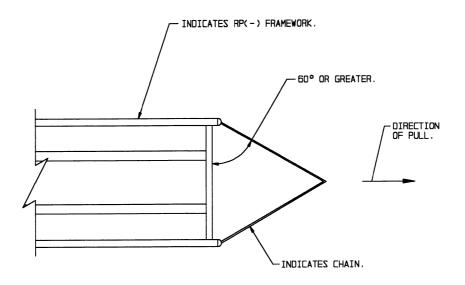
(SPECIAL HANDLING GUIDANCE CONTINUED)

- C. THE DUNNAGE ASSEMBLIES AT THE FRONT AND ALONG THE SIDEWALLS OF THE MILVAN CONTAINER MUST BE PRE-POSITIONED PRIOR TO LOADING THE FIRST STACK OF PODS INTO IT. ONCE THE FIRST STACK OF PODS IS IN POSITION, THE SECOND STACK CAN BE LOADED INTO THE MILVAN SUBSEQUENT TO THE INSTALLATION OF THE CENTER FILL ASSEMBLY.
- D. WHEN REMOVING A POD OR POD STACK FROM A MILVAN CONTAINER BY ATTACHING CHAINS TO THE FRAME AND DRAGGING THE POD OR POD STACK PARTIALLY OUT OF THE MILVAN CONTAINER, CARE MUST BE TAKEN TO ENSURE THAT THE PULL ANGLE OF EACH OF THE TWO CHAIN LEGS IS 60° OR GREATER. IF THE CHAIN IS ATTACHED SO THAT THE PULL ANGLE IS LESS THAN 60°, STRUCTURAL FAILURE OF THE RP(-) FRAME COULD OCCUR. SEE THE "RP(-) TOW ANGLE" DETAIL ON PAGE 4. CHAINS WILL BE ATTACHED ONLY TO THE BOTTOM-LAYER RP(-) UNITS, AND SHACKLES WILL BE USED TO ATTACH THE DRAG CHAINS TO THE DRAGGING FACILITY HOLES. A FORKLIFT TRUCK IS TO BE USED FOR DRAGGING THE UNITS SO THAT THE TINES OF THE TRUCK CAN BE INSERTED A SHORT DISTANCE UNDER THE AFT END OF THE LOWER RP(-) UNIT AND THE AFT END OF THE RP(-) UNIT LIFTED ENOUGH TO JUST CLEAR THE CONTAINER FLOOR BEFORE ACTUAL DRAGGING IS BEGUN. CAUTION: FORKLIFT TRUCK TINES MUST NOT BEAR ON THE BOTTOM SURFACE OF A BULKHEAD BRACE ASSEMBLY OF THE LOWER RP(-) UNIT DURING A DRAGGING OPERATION. SEE NOTE 3 ON PAGE 5 AND NOTE 2.E BELOW. NOTICE: WIRE ROPE CABLE CAN BE SUBSTITUTED FOR THE CHAIN SPECIFIED HEREIN.
- E. WHEN RP(-) UNITS ARE HANDLED WITH A FORKLIFT TRUCK, A 1" X 4" MATERIAL BUFFER BOARD MUST BE PLACED ACROSS THE FORKLIFT TRUCK TINES SUCH THAT THE TINES DO NOT CONTACT THE BOTTOM SURFACE OF THE FRAME MEMBERS.
- F. RP(-) UNITS WILL BE PUSHED INTO THE MILVAN CONTAINER USING A PUSHER ASSEMBLY OR A 4" X 4" BUFFER BOARD WILL BE POSITIONED BETWEEN THE HEELS OF THE FORKLIFT TRUCK TINES AND THE RP(-) FRAME. THE PUSHER ASSEMBLY DEPICTED ON PAGE 9 MAY ALSO BE USED IN PLACE OF A 4" X 4" BUFFER BOARD TO PUSH THE RP(-) UNITS INTO THE MILVAN.
- G. CAUTION: IF LIFTED WITH A SLING OR CRANE, THE RP(-) CONTAINER WILL EXPERIENCE A TILT OF 26°, WITH THE FORWARD END ELEVATED. THIS IS EXPECTED AND ALLOWABLE, DUE TO THE CENTER OF GRAVITY OF THE RP(-). EXERCISE EXTREME CARE TO PREVENT DAMAGE TO THE RP(-).



MLRS POD STABILIZING FRAME

REFER TO U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND, DEFENSE AMMUNITION CENTER AND SCHOOL DRAWING NUMBER AC200000809 TO MANUFACTURE. THE DRAWING CAN BE OBTAINED FROM THE FOLLOWING ADDRESS: U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL, ATTN: SMCAC-DES, SAVANNA, IL 61074-9639, DSN 585-8928, COMM (815) 273-8928.



RP(-) TOW ANGLE

(PARTIAL PLAN VIEW)

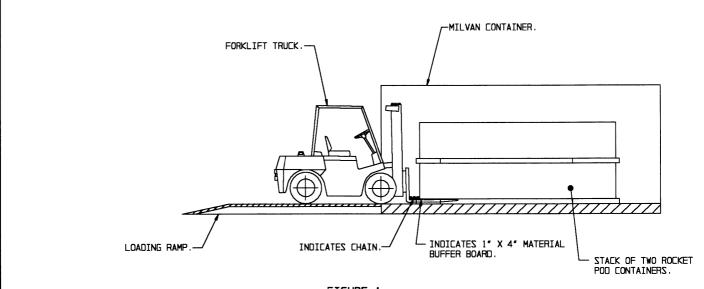
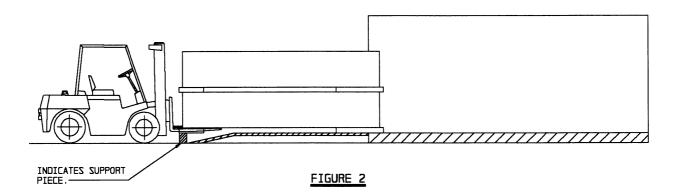


FIGURE 1



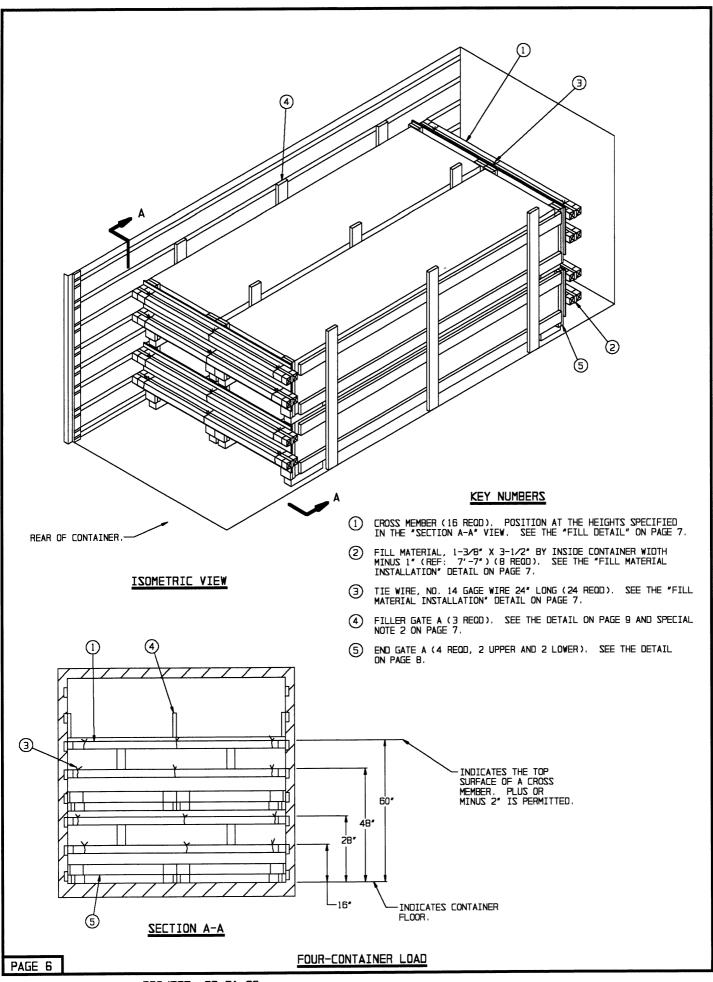
MILVAN CONTAINER UNLOADING PROCEDURES

- 1. REMOVE ALL REAR BLOCKING FROM THE MILVAN CONTAINER.
- 2. ATTACH CHAIN FROM DRAGGING FACILITY HOLES ON BOTTOM RP! TO THE FORKLIFT TRUCK AS SHOWN IN FIGURE 1 ABOVE (SEE NOTE 2.D ON PAGE 3).
- 3. INSERT THE FORKLIFT TIMES WITH A 1" X 4" MATERIAL BUFFER BOARD PLACED ACROSS THE FORK TIMES (TO INSURE THAT THE TIMES DO NOT CONTACT THE BOTTOM OF THE LONGITUDINAL FRAME MEMBERS) UNDER THE AFT END OF THE BOTTOM RP(-).
- 4. LIFT THE AFT END OF THE RP(-) STACK ENOUGH TO JUST CLEAR THE CONTAINER FLOOR BEFORE ACTUAL DRAGGING IS BEGUN.
- 5. SLOWLY PULL THE RP(-) STACK FROM THE CONTAINER UNTIL THE TWO SKIDS ON THE OPPOSITE (FORE) END ARE ALMOST OUTSIDE OF THE INTERMODAL FREIGHT CONTAINER.
- 6. THE RP(-) STACK SHOULD THEN BE LOWERED ONTO A SHORT LENGTH OF DUNNAGE SO THAT THE AFT-END SKIDS ARE SUPPORTED BY THE DUNNAGE PIECE AND THE RP(-) STACK IS APPROXIMATELY LEVEL. THE RP(-) STACK MAY NOW BE HANDLED BY SLINGING, FORKLIFT TRUCK, OR ANY OTHER MEANS, PROVIDING THEY ARE HANDLED IN ACCORDANCE WITH APPROVED PROCEDURES.
- 7. REPEAT THE ABOVE PROCEDURES FOR THE REMAINING RP(-) STACK.

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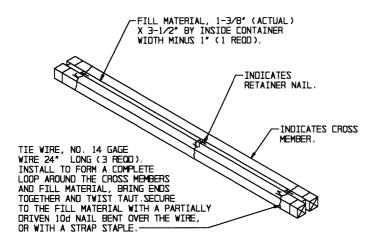
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- B. IF THE PODS ARE INADVERTENTLY POSITIONED INTO THE MILVAN CONTAINER AFT END TOWARD THE FORWARD END OF THE CONTAINER (I.E. THE PODS ARE LOADED WITH THE DRAGGING FACILITY HOLES OPPOSITE THE DOOR END OF THE CONTAINER). THE FOLLOWING GUIDANCE APPLIES DURING UNLOADING.
 - A. TO PREVENT DAMAGING THE BOTTOM SURFACE OF THE POD FRAME, A WOODEN BUFFER PIECE MUST BE PLACED ACROSS THE FORKLIFT TINES SO THAT THE TINES DO NOT CONTACT THE BOTTOM SURFACE OF THE POD FRAME DURING ANY OF THE FOLLOWING OPERATIONS.
 - B. AFTER REMOVING THE END DUNNAGE, RAISE A STACK OF PODS APPROXIMATELY 3" WITH A FORKLIFT AND POSITION WOODEN PIECES UNDER THE END FRAME OF THE LOWER POD. LOWER THE STACK TO REST UPON THE WOOD SUPPORT PIECES AND TEMPORARILY REMOVE FORKLIFT.
 - C. REMOVE KEEPER PINS HOLDING LOWER SHOCK ISOLATOR SKIDS IN PLACE AND REMOVE BOTH SKIDS.
 - D. ATTACH AN APPROPRIATELY SIZED SHACKLE TO EACH SIDE OF THE POD FRAME THRU THE SKID PIN HOLE. THE SHACKLE MUST BE SIZED SO THAT THERE IS SUFFICIENT CLEARANCE BETWEEN ITS CURVED PORTION AND THE END OF THE POD FRAME SO THAT A CHAIN CAN BE ATTACHED TO THE SHACKLE WITHOUT DAMAGING THE POD FRAME.
 - E. REPOSITION THE FORKLIFT AND ATTACH THE CHAINS AS SPECIFIED IN NOTE 2 ON THIS PAGE.
 - F. REMOVE WOODEN SUPPORT PIECES AND REMOVE POD OR POD STACK FROM THE INTERMODAL FREIGHT CONTAINER. NOTE THAT THE SKIDS MUST BE REATTACHED TO THE RP(-) FRAME PRIOR TO LOWERING PODS TO THE GROUND.
 - G. REMOVE THE SECOND POD OR POD STACK IN A LIKE MANNER.



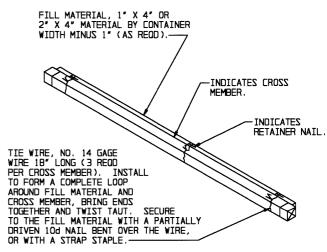
SPECIAL NOTES:

- THE LOAD AS SHOWN ON PAGE 6 DEPICTS A FOUR CONTAINER LOAD IN A MILVAN CONTAINER.
- 2. TO AID IN THE LOADING OF THE CONTAINERS INTO THE MILVAN CONTAINER, THE "FILLER GATES A" LOCATED AGAINST THE SIDEWALLS OF THE MILVAN MAY BE WIRE TIED IN PLACE PRIOR TO THE ACTUAL LOADING OPERATION. ADDITIONALLY, SUBSEQUENT TO PLACING THE FIRST CONTAINER STACK INTO THE MILVAN, THE CENTER "FILLER GATE A" MAY BE WIRE TIED TO THE FIRST CONTAINER STACK TO PRECLUDE INTERFERING WITH THE SECOND CONTAINER STACK WHEN IT IS BEING LOADED IN THE MILVAN CONTAINER.



FILL MATERIAL INSTALLATION

SEE GENERAL NOTE "H" ON PAGE 2.



FILL DETAIL

THIS DETAIL DEPICTS THE METHOD OF POSITIONING FILL MATERIAL BETWEEN A CROSS MEMBER AND LADING, WHEN THE VOID BETWEEN THE TWO IS GREATER THAN 1".

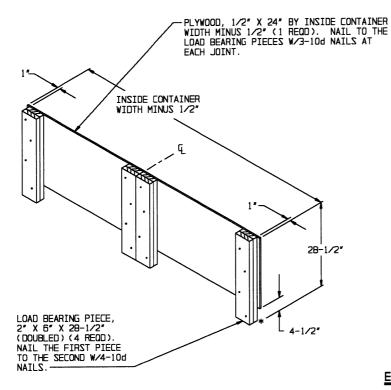
BILL OF MATERIAL			
LUMBER	LINEAR FEET BOARD FEET		
2" X 4" 2" X 6" 4" X 4"	60 286 6	40 286 8	
ZJIAN	NO. REQD	POUNDS	
10d (3") 12d (3-1/4")	244 32	4 3/4	
WIRE, NO. 14 GAGE 48' REOD 1 LB PLYWOOD, 3/4" 61 SO FT REOD 126 LBS			
CROSS MEMBER 16 REQD			

NWOHZ 2A DAOJ

ITEM	<u>QUANTITY</u>	WEIGHT	(APPROX)
DUNNAGE -	4	800	LBZ

TOTAL WEIGHT - - - - - - 22,372 LBS (APPROX)

FOUR-CONTAINER LOAD



GATE RETAINER PIECE, 4" X 4" X 8-1/2" (2 REOD). NAIL THRU PLYWOOD INTO GATE RETAINER PIECE W/4-12d NAILS.

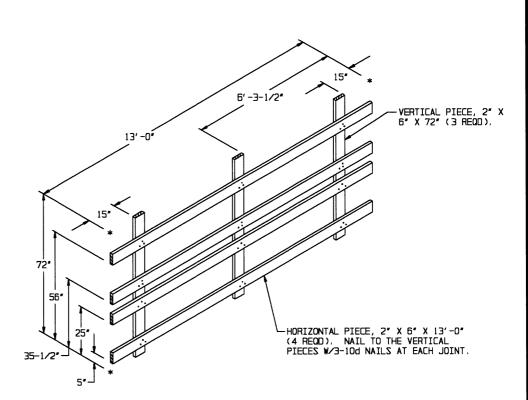
END GATE A

END GATE A RETAINER LOCATION

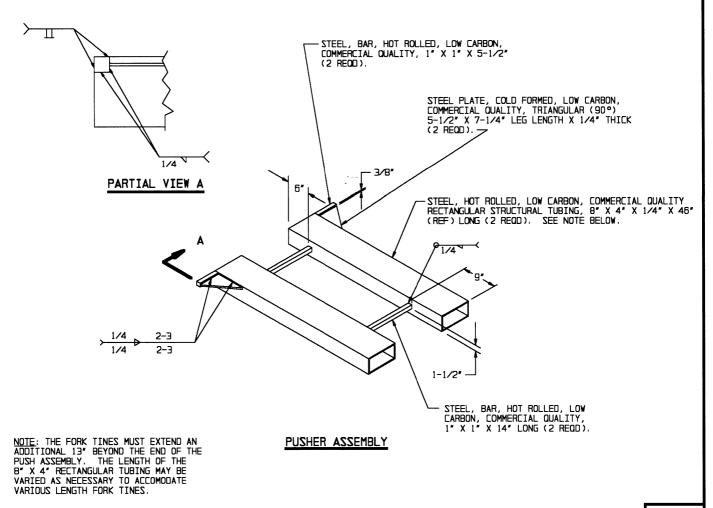
NOTE: GATE RETAINER PIECES SHOULD BE APPROXIMATELY CENTERED HORIZONTALLY BETWEEN THE LOAD BEARING PIECES OF THE END GATE ON THE OPPOSITE THE LOAD BEARING PIECE.

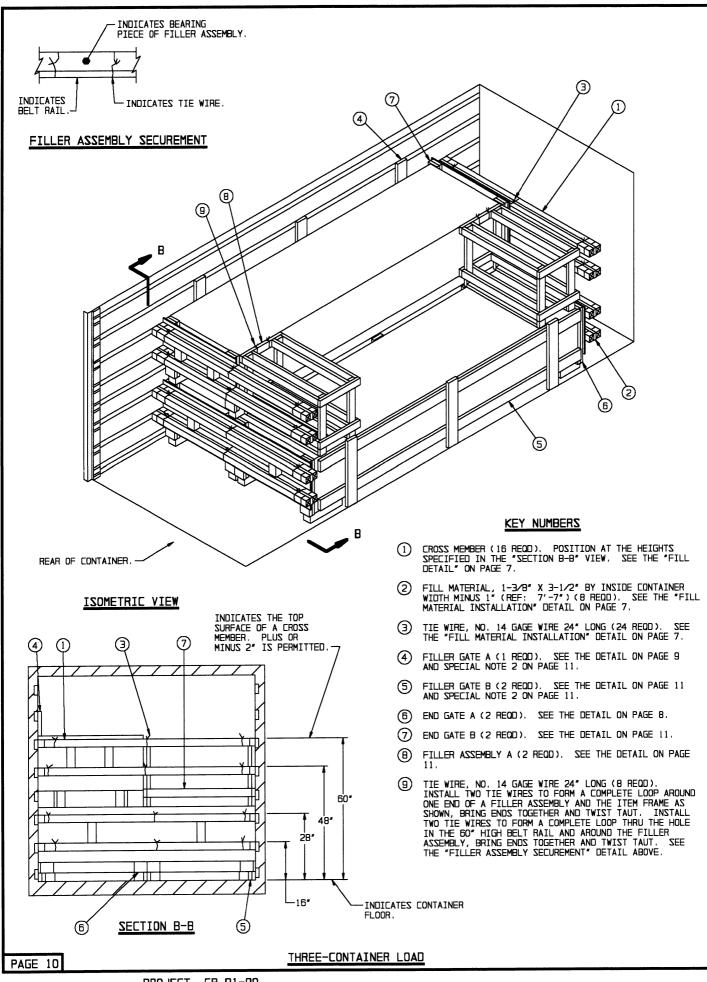
*THE 13-3/4" DIMENSION WILL BE USED IN THE LOWER END GATE AND THE 14-1/2" DIMENSION WILL BE USED IN THE UPPER END GATE ASSEMBLY.

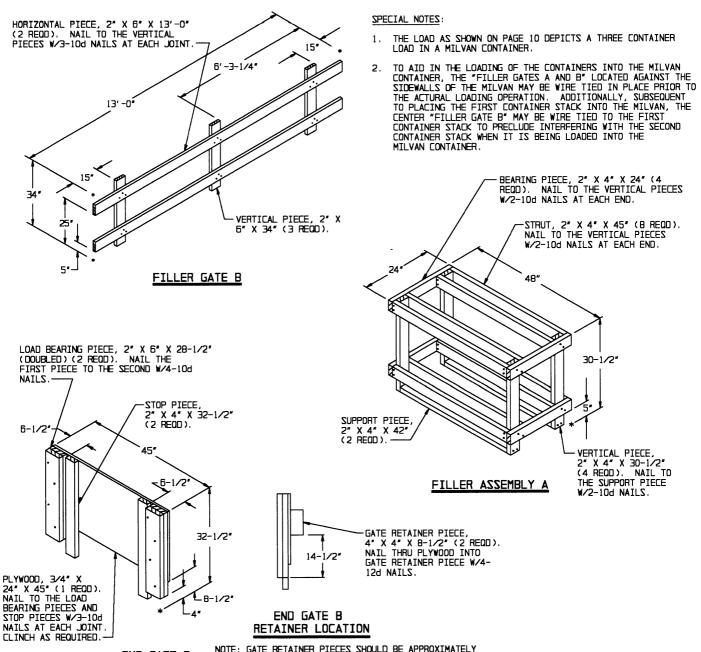
A



FILLER GATE A







END GATE B

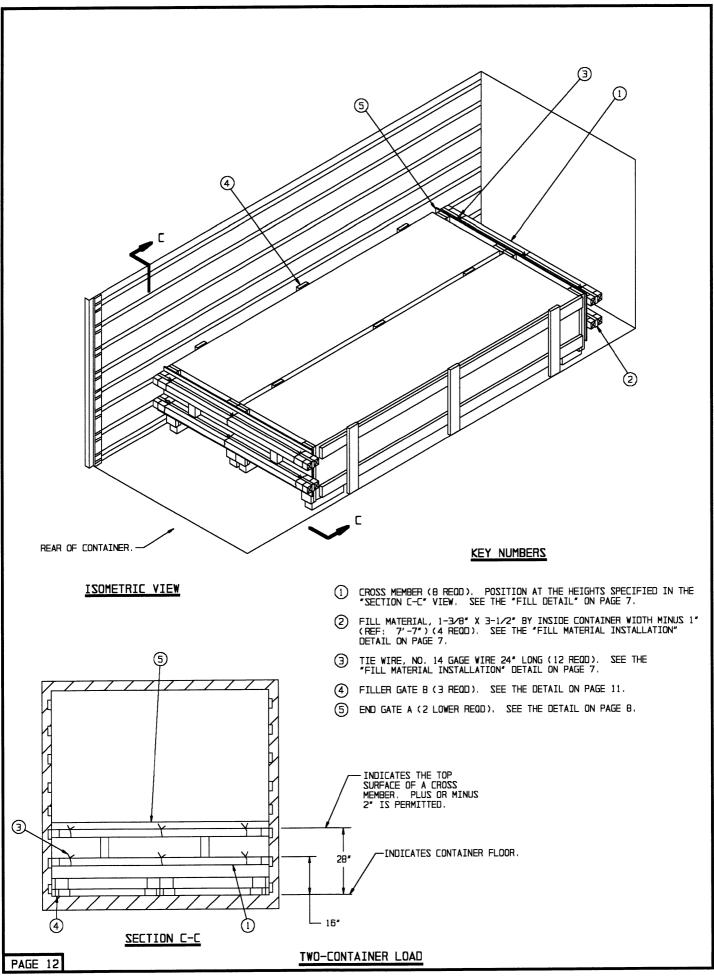
NOTE: GATE RETAINER PIECES SHOULD BE APPROXIMATELY CENTERED HORIZONTALLY BETWEEN THE LOAD BEARING PIECES OF THE END GATE ON THE SIDE OPPOSITE OF THE LOAD BEARING PIECES, WITH APPROXIMATELY 15" BETWEEN GATE RETAINER PIECES.

BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET	
2" X 4" 2" X 6" 4" X 4"	182 196 6	122 196 8	
NAILS	NO. REQD	SGNUOS	
10d (3") 12d (3-1/4")	304 4-3/4 32 3/4		
WIRE, NO. 14 GAGE 64' REQD 1-1/4 LBS PLYWOOD, 3/4" 46 SQ FT REQD 95 LBS			
CROSS MEMBER 16 REOD			

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
DUNNAGE -		754 LBS
	TOTAL WEIGHT	- 18,358 LBS (APPROX)

THREE-CONTAINER LOAD



SPECIAL NOTES:

- THE LOAD AS SHOWN ON PAGE 12 DEPICTS A TWO CONTAINER LOAD IN A MILVAN CONTAINER.
- 2. TO AID IN THE LOADING OF THE CONTAINERS INTO THE MILVAN CONTAINER, THE "FILLER GATES B" LOCATED AGAINST THE SIDEWALLS OF THE MILVAN MAY BE WIRE TIED IN PLACE PRIOR THE ACTURAL LOADING OPERATION. ADDITIONALLY, SUBSEQUENT TO PLACING THE FIRST CONTAINER INTO THE MILVAN, THE CENTER "FILLER GATE B" MAY BE WIRE TIED TO THE FIRST CONTAINER TO PRECLUDE INTERFERING WITH THE SECOND CONTAINER WHEN IT IS BEING LOADED IN THE MILVAN CONTAINER.

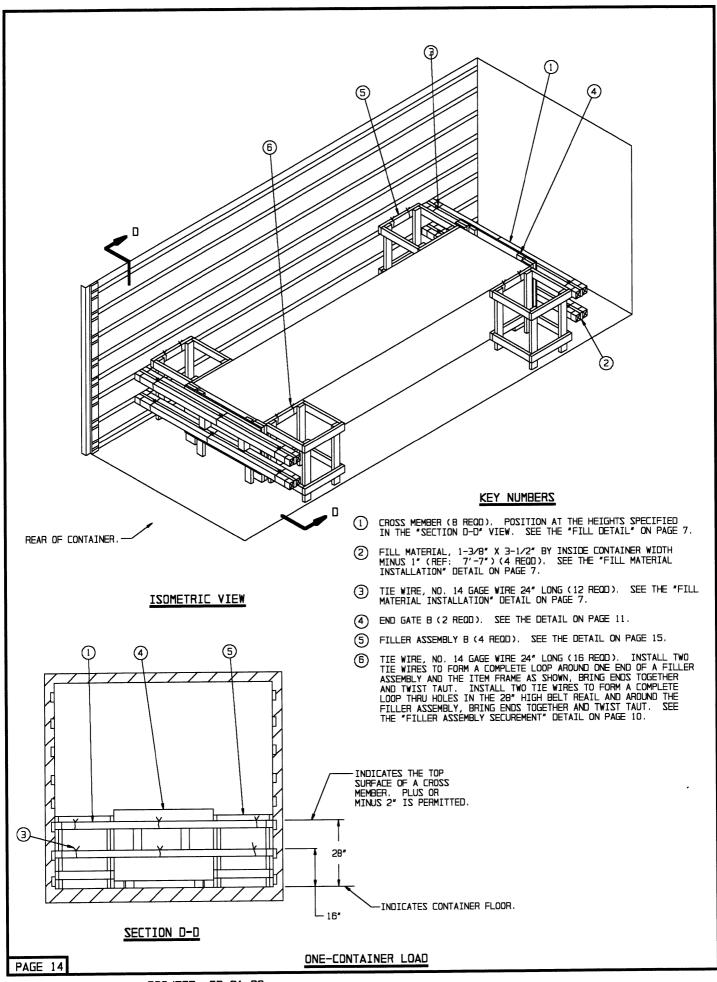
BILL OF MATERIAL			
LUMBER	LINEAR FEET BOARD FEE		
2" X 4" 2" X 6" 4" X 4"	30 142 3	20 142 4	
NAILS	NO. REQD	POUNDS	
10d (3") 12d (3-1/4")	122 16	2 1-1/2	
WIRE, NO. 14 GAGE 24' REQD 1/2 LB PLYWOOD, 3/4" 31 SO FT REQD 64 LBS			
CROSS MEMBER 8 REQD			

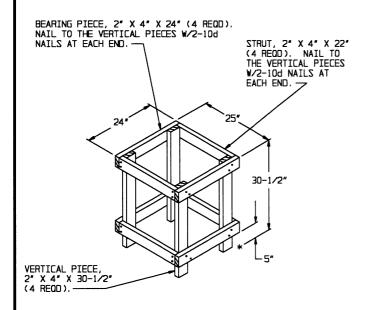
NWOHZ ZA DAOL

ITEM	QUANTITY	WEIGHT (APPROX)
MLRS RP(-)		399 LBS

TOTAL WEIGHT - - - - - - 14,035 LBS (APPROX)

TWO-CONTAINER LOAD





FILLER ASSEMBLY B

BILL OF MATERIAL			
LUMBER	LINEAR FEET BOARD FEET		
2" X 4" 2" X 6" 4" X 4"	144 96 19 19 3 4		
ZJIAN	NO. REQD	ZDNUO9	
10d (3") 12d (3-1/4")	180 16	3 1/2	
WIRE, NO. 14 GAGE 56' REOD 1 LB PLYWOOD, 3/4" 15 SQ FT REQD 31 LBS			
CROSS MEMBER 8 REOD			

SPECIAL NOTES:

- THE LOAD AS SHOWN ON PAGE 14 DEPICTS A ONE CONTAINER LOAD IN A MILVAN CONTAINER.
- 2. TO AID IN THE LOADING OF ONE MLRS RP(-) INTO THE MILVAN, THE "FILLER ASSEMBLIES B" WILL NOT BE PLACED IN OR WIRETIED TO THE MILVAN CONTAINER UNTIL THE ONE MLRS RP(-) IS PLACED INTO POSITION AND THE ROLLER ASSEMBLY IS REMOVED.

NWOHZ ZA DAOL

ITEM	QUANTITY	WEIGHT (APPROX)
DUNNAGE	1	- 274 LBS
тот	AL WEIGHT	- 9,942 LBS (APPROX)

ONE-CONTAINER LOAD

