

MILITARY STANDARD

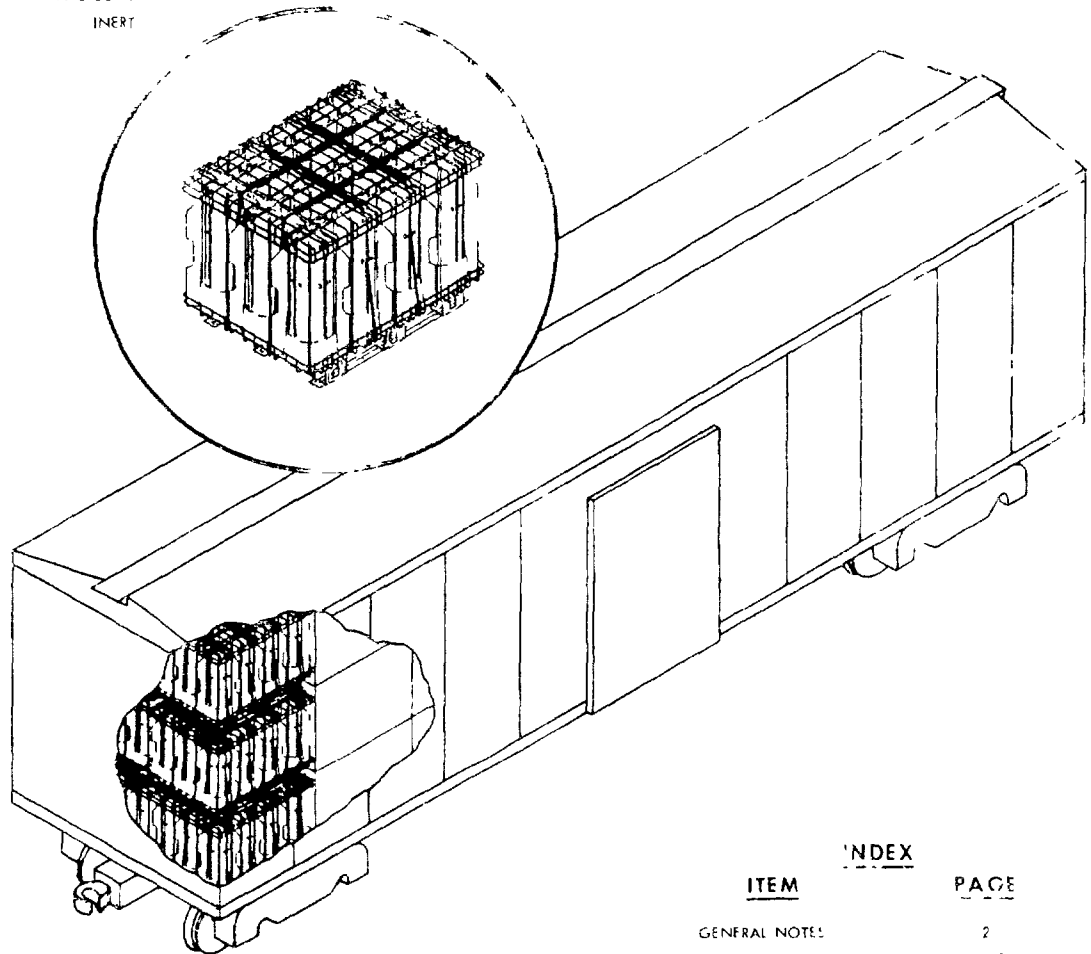
LOADING

IN ASSEMBLY, BOMB, MK15 AND MOLE (514-70)
 IN PALLET ADAPTER ADU-337E
 FLEET ISSUE UNIT LOAD

100-514-70
 1 JUL 73

UNIT LOAD DATA

UNIT LOAD DRAWING WK-54'242
 WEIGHT 71 LBS
 DIMENSIONS 48 1/4 L x 36 1/4 W x 3 3/4 H
 CUBE 38.2 CU FT
 DOT HAZARD CLASSIFICATION INERT



NOTES

- 1 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
- 2 FOR CROSS REFERENCE TO ASSOCIATED PALLETIZING, TRUCKLOADING AND CONTAINERLOADING MILITARY STANDARDS, REFER TO INDEX TO STANDARDS MIL-HDBK 236 (NAVY).

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MILITARY ASSISTANT

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DATE

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DATE

SIGNATURE *W. E. Earle* 7/14/73

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FAIR SYSTEM BY DIRECTION DATE

NAV WEAPONS HANDLING TAGS

N A D EARLE, NEW JERSEY

PAGE 1 OF 2

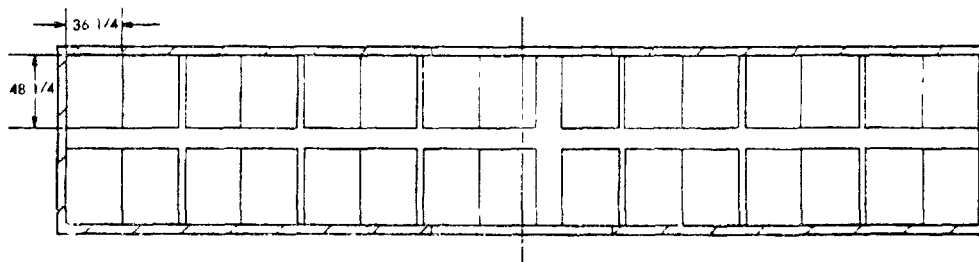
MIL-STD-1325 (NAVY)

GENERAL NOTES

1. FOR GENERAL INFORMATION CONCERNING ORDERING, INSPECTING, AND PREPARING CARS, AND FOR DUNNAGING MATERIALS DESIGN AND INSTALLATION OF DUNNAGE SEE THE GENERAL DOCUMENT MIL-STD-1325 (NAVY) RAILCAR LOADING OF HAZARDOUS MATERIALS.
2. WHEN PLANNING SHIPMENTS ORC, THE MINIMUM NUMBER OF CARS OF THE CAPACITY REQUIRED FOR THE SHIPMENT. UTILITY LOADER CARS SHALL BE SERIES DODX L300G.
3. LOADING PLANS SHOWN ARE FOR DODX UTILITY LOADER CARS WITH 50 FT 6 INCHES INSIDE LENGTH, 107 3/4 INCHES INSIDE WIDTH BETWEEN RAILS (111 INCHES INSIDE WIDTH BETWEEN SIDE WALLS). COMMERCIAL BOXCARS WITH 40 FT 6 INCHES INSIDE LENGTH, 110 INCHES INSIDE WIDTH, AND COMMERCIAL BOXCARS WITH 50 FT 6 INCHES INSIDE LENGTH, 110 INCHES INSIDE WIDTH.
4. THE LOAD LIMIT OF A CAR MUST NOT BE EXCEEDED NOR SHOULD THE RAILCAR BE LOADED SO THAT MORE THAN ONE-HALF OF THE LOAD LIMIT IS CARRIED BY ONE SET OF TRUCKS.
5. IF END WALLS OF CARS ARE NOT SQUARE THEY MUST BE SQUARED OFF BEFORE STARTING TO LOAD CAR.
6. THE LOAD CONSISTS OF MK 15 AND ADDS BOMB FIN ASSEMBLY (SHAKYEE) PALLETIZED IN ACCORDANCE WITH WR-54 242.
7. THE UNIT LOADS ARE HANDLED AND LOADED WITH A SUITABLE FORK LIFT TRUCK.
8. UNLESS OTHERWISE SPECIFIED NAILING SHALL BE IN ACCORDANCE WITH MIL-STD-1325 (NAVY).
9. ALL STRAP JOINTS SHALL BE CRIMP TYPE JOINTS MADE WITH A CRIMPING TOOL THAT DOES NOT CUT THE SEAL OF STRAP RATHER THAN A TOOL THAT MAKES A NOTCH-TYPE JOINT. THE STRAPPING MUST BE IN ACCORDANCE WITH NAVSUP NOTICE 4652 DATED 21 APRIL 1971.
10. APPLICABLE MATERIAL SPECIFICATIONS:
 - DUNNAGE LUMBER - FED. SPEC MM-L-751
 - NAILS - FED. SPEC FF-N-105
 - STRAPPING - FED. SPEC QQ-S-781 TYPE I, HEAVY DUTY, CLASS A, DRY (UNLUBRICATED)
 - SEALS - FED. SPEC QQ-C-781 STYLE III, HEAVY DUTY
11. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS INSIDE THE CAR IN AN ACCESSIBLE AREA AND CLOSE AND SEAL BOXCAR DOORS.

50 FT 6 IN. BOXCAR, DODX

1. THE CARLOAD CONSISTS OF 90 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS PROCEDURAL DRAWING.
2. A DETAILED DESCRIPTION AND OPERATING INSTRUCTIONS FOR THE UTILITY LOADER ARE CONTAINED IN OF 175C.
3. TO PREVENT UNUSED DODX EQUIPMENT FROM BECOMING DISLODGED DURING TRANSIT OF DODX CARS SECURE IT AT ANY LOCATION IN THE BOXCAR WHICH WILL NOT INTERFERE WITH UNLOADING.
4. WHEN LESS THAN CAPLOAD (LCL) QUANTITIES ARE REQUIRED TO BE SHIPPED IN DODX BOXCARS THE SAME PROCEDURES AND METHODS OF BLOCKING ARE APPLICABLE. ANY BAYS OR PORTION THEREOF MAY BE USED PROVIDING THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR ARE COMPLIED WITH. (SEE MIL-STD-1325 (NAVY)). EACH CROSSMEMBER WILL BE USED IN SUCH A MANNER THAT IT WILL RETAIN NOT MORE THAN 2000 LBS OF THE LADING.



LOADING PLAN

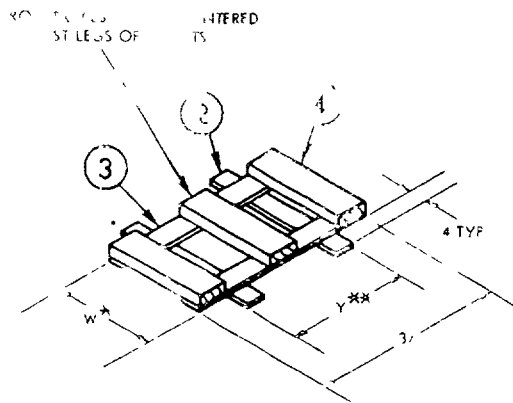
*W = DISTANCE BETWEEN LEGS OF PALLETS ACROSS THE CAR

** = PIECE 3 NAILS TO PIECE 4 WITH 10d NAILS, CLINCHED, 3 PER JOINT AND TO PIECE 2 WITH 6d NAILS, 1 PER JOINT

PIECE NO	DESCRIPTION	SIZE	NO PCS REQD	NAIL TO	NUMBER	SIZE
5	LATERAL FLOOR MEMBER	2 x 6 x 107	2	CAP FLOOR	2 PER FOOT	16d
4	CROSS BRACE	2 x 6 x W*	90	SEE 3	-	-
3	SWAY BRACE LONGITUDINAL	1 x 4 x 37	60	2-4	SEE NOTE **	-
2	SWAY BRACE SUPPORT	1 x 4 x (W-8)*	60	SEE 3	-	-
1	SLEEPER	2 x 4 x 36	30	CAR FLOOR	2 PER FOOT	16d
PIECE NO	DESCRIPTION	SIZE	NO PCS REQD	NAIL TO	NUMBER	SIZE
					NAILS	

LIST OF MATERIALS AND NAILING DATA

201 570 132 155 (NAVY)

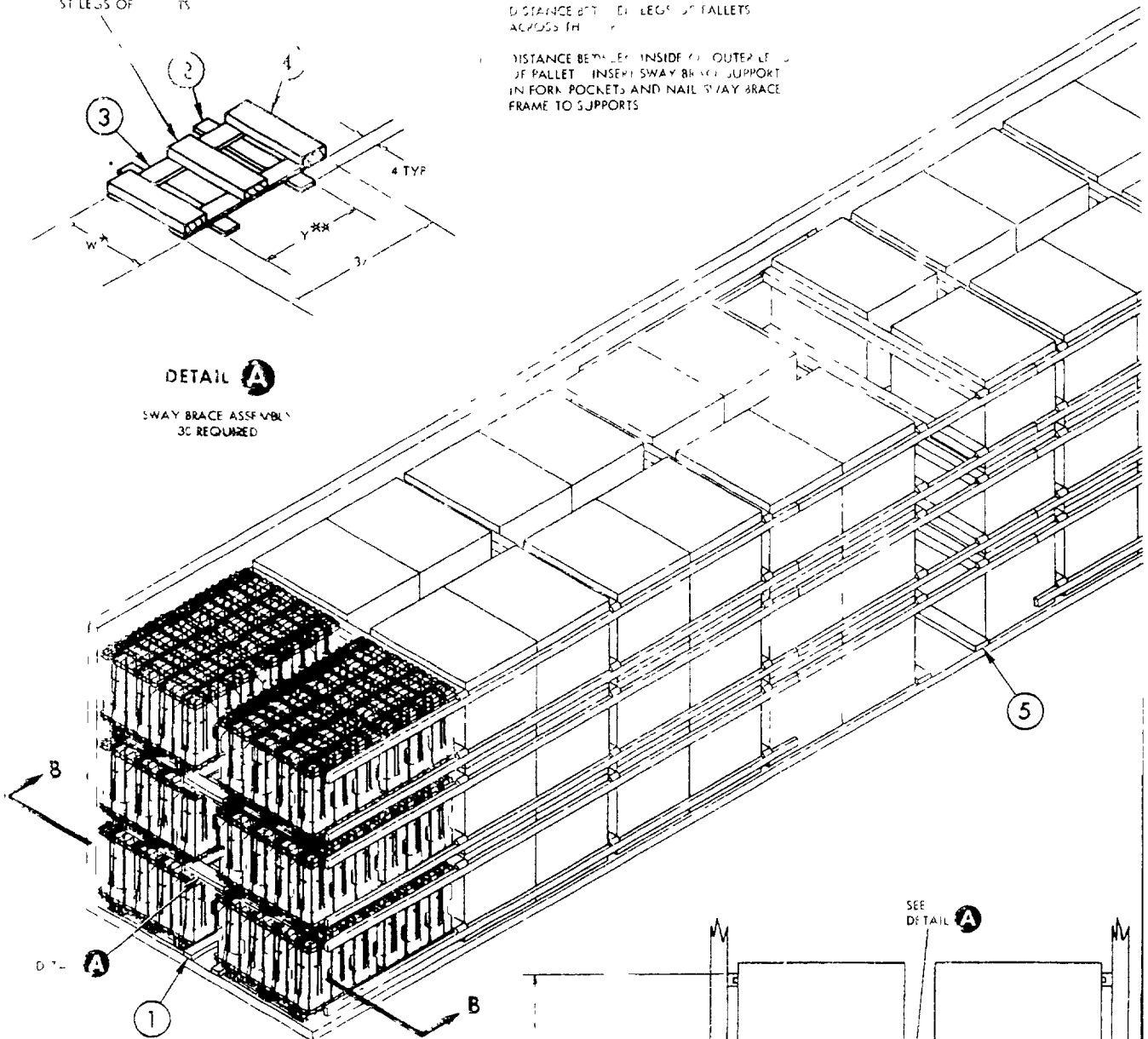


DISTANCE BTT. ED. LEGS OF PALLET
ACROSS TH.

DISTANCE BETWEEN INSIDE & OUTER LEG
OF PALLET. INSERT SWAY BRACE SUPPORT
IN FORK POCKETS AND NAIL SWAY BRACE
FRAME TO SUPPORTS

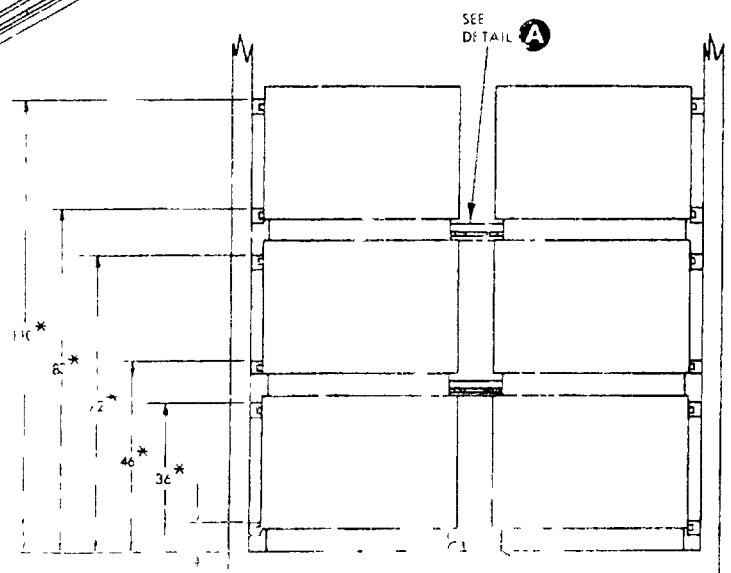
DETAIL A

SWAY BRACE ASSEMBLY
30 REQUIRED



CARLOAD DATA

NUMBER OF UNIT LOADS	90
NUMBER OF CROSSMEMBERS REQUIRED	46
LOCAL WEIGHT	87 390 LBS
DRAWER WEIGHT	845 LBS
NET WEIGHT	87 235 LBS



SECTION

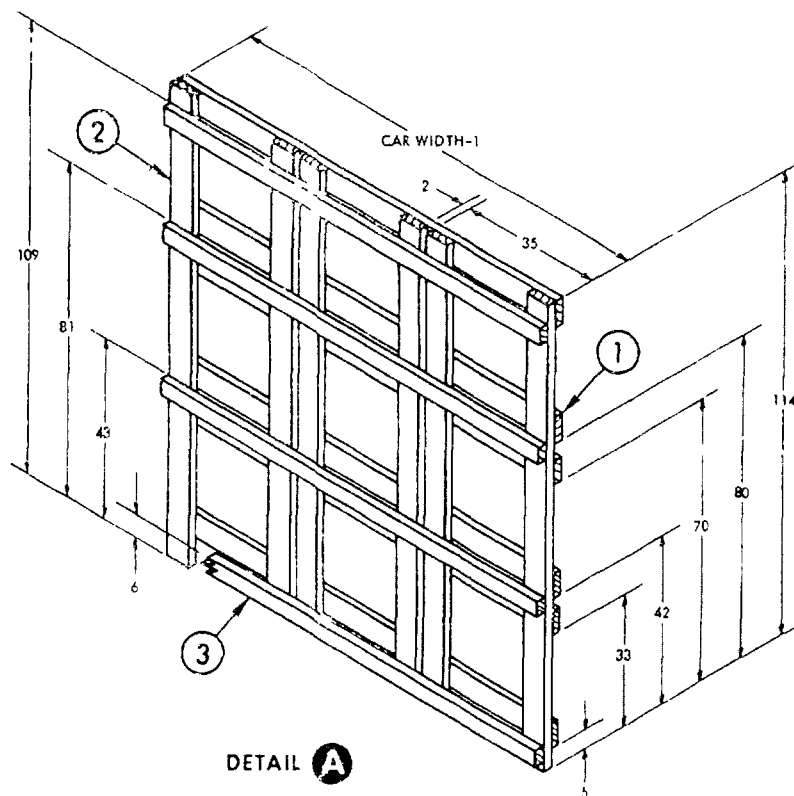
SHOWING LOCATION OF ALL PARTS
USED - FOR 35\"/>

DOORWAY - SEE SECTION 1

MIL-STD-1325 (NAVY)

40 FT 6 IN. BOXCAR, COMMERCIAL

1. THE LOAD CONSISTS OF 8 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS PROCEDURE.
2. IF LESS THAN 8 UNIT LOADS (11) QUANTITIES ARE REQUIRED TO BE SHIPPED IN COMMERCIAL BOXCARS, AND A PARTIAL LAYER RESULTS, THE PARTIAL LAYER OF LADING SHALL BE BRACED BY MEANS OF END BRACING AND A PARTIAL LAYER BRACING CONSTRUCTED IN ACCORDANCE WITH W-52/170. SELECT THE TYPE OF BRACE TO COMPLY WITH THE WEIGHT OF THE UNITS TO BE RETAINED. THE CENTER GATE HEIGHT SHOULD BE ADJUSTED AS REQUIRED. THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR MUST BE COMPLIED WITH. SEE MIL-STD-1325 (NAVY).
3. THE LOADS AS SHOWN ARE BASED ON CARS WHICH HAVE 6 FT WIDE DOORWAY OPENINGS AND ARE EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOOR. THE DEPICTED PROCEDURES AND METHODS OF BLOCKING ARE APPLICABLE TO BOXCARS EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOORS OTHER THAN 6 FT WIDE.



DETAIL A

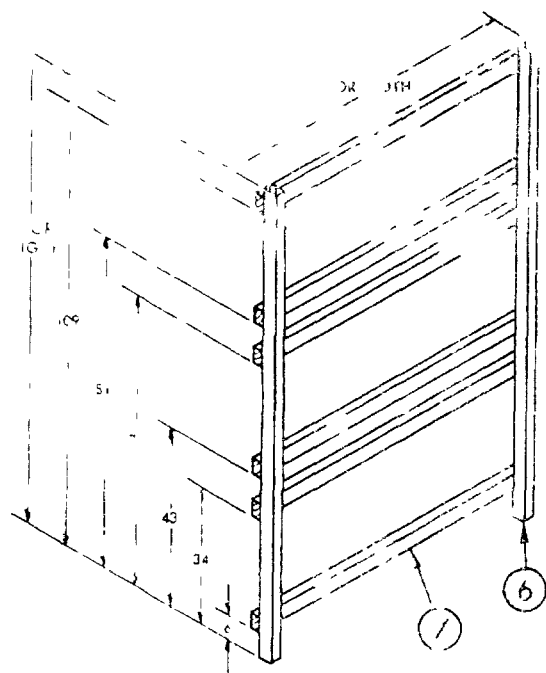
CENTER GATE
2 REQUIRED

* 2 x 6 STRUTS DOUBLED AND LAMINATED WITH 10d NAILS MAY BE SUBSTITUTED IN PLACE OF 4 x 4 S.

7	HORIZONTAL DOORWAY MEMBER	4 x 4 x DOOR WIDTH	12	6	2 PER JOINT	10d
6	VERTICAL DOORWAY MEMBER	2 x 3 x DOOR HEIGHT	4	DOOR POST	2 PER FOOT	20a
5	GATE HOLD DOWN	2 x 4 x 60	2	3	3 PER JOINT	10d
4	STRUT	4 x 4 x WEDGE FIT *	24	2	2 PER JOINT	16d
3	CENTER GATE STRUT CLEAT	2 x 4 x CAR WIDTH 1	8	2	3 PER JOINT	10d
2	CENTER GATE VERTICAL	2 x 6 x 114	12	SEE 1	-	-
1	CENTER GATE HORIZONTAL	2 x 6 x CAR WIDTH 1	12	2	3 PER JOINT	10d
PIECE NO	DESCRIPTION	SIZE	NO PCS REQD	NAIL TO	NUMBER NAILS	SIZE

LIST OF MATERIALS AND NAILING DATA

MIL-STD-1325-166 (NAVY)



HEN BOXC R HAS STEEL DOOR POST DOORWAY
PROTECTION AS PER MIL-STD-1325 (NAVY) PAGE 46
FIG. 21 IS REQUIRED

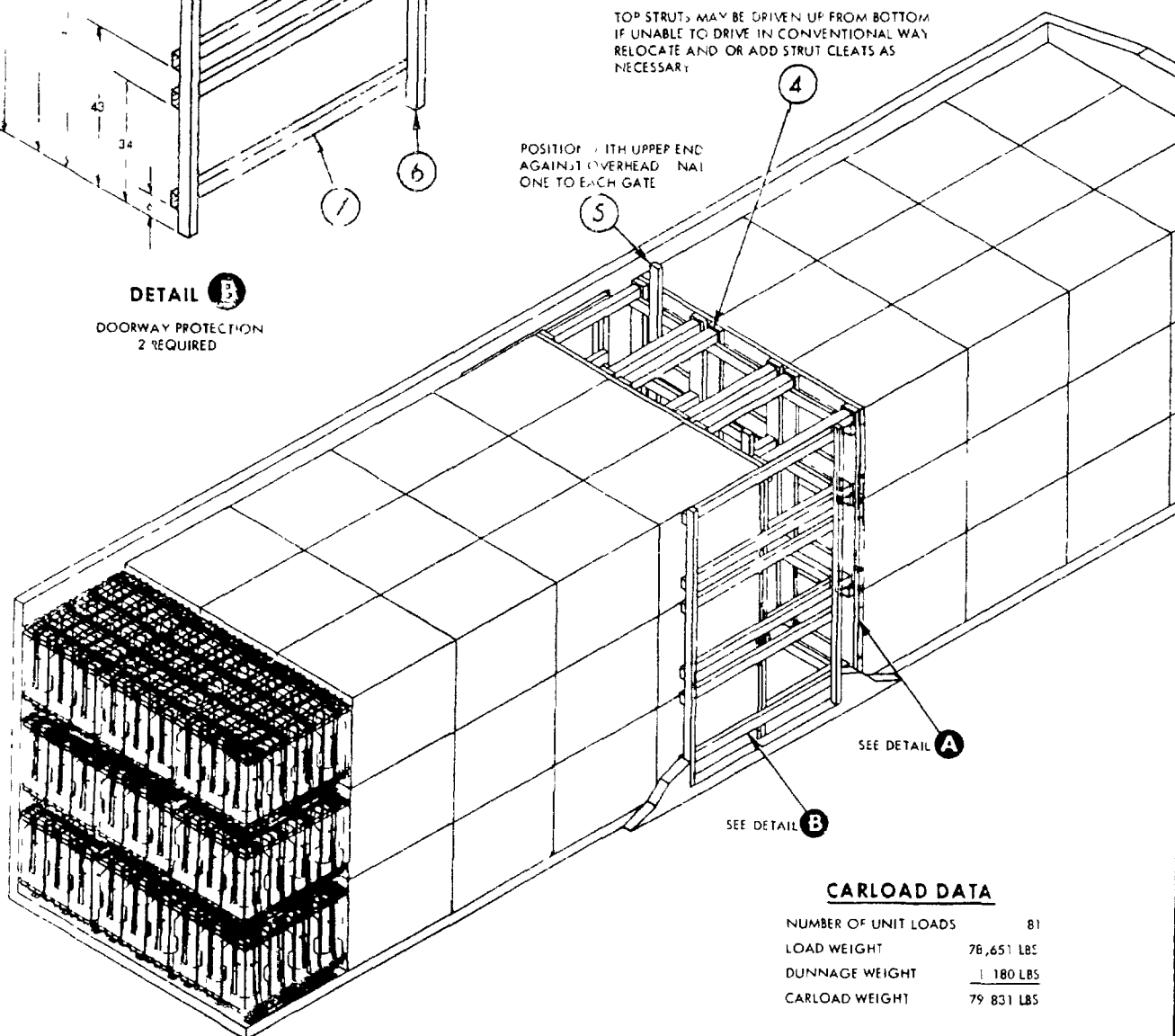
NOTE

TOP STRUTS MAY BE DRIVEN UP FROM BOTTOM
IF UNABLE TO DRIVE IN CONVENTIONAL WAY
RELOCATE AND OR ADD STRUT CLEATS AS
NECESSARY

POSITION WITH UPPER END
AGAINST OVERHEAD RAIL
ONE TO EACH GATE

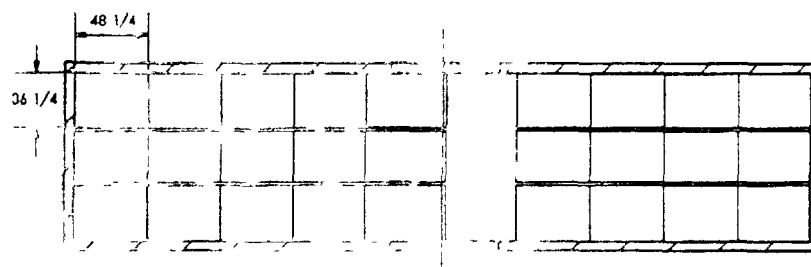
DETAIL B

DOORWAY PROTECTION
2 REQUIRED

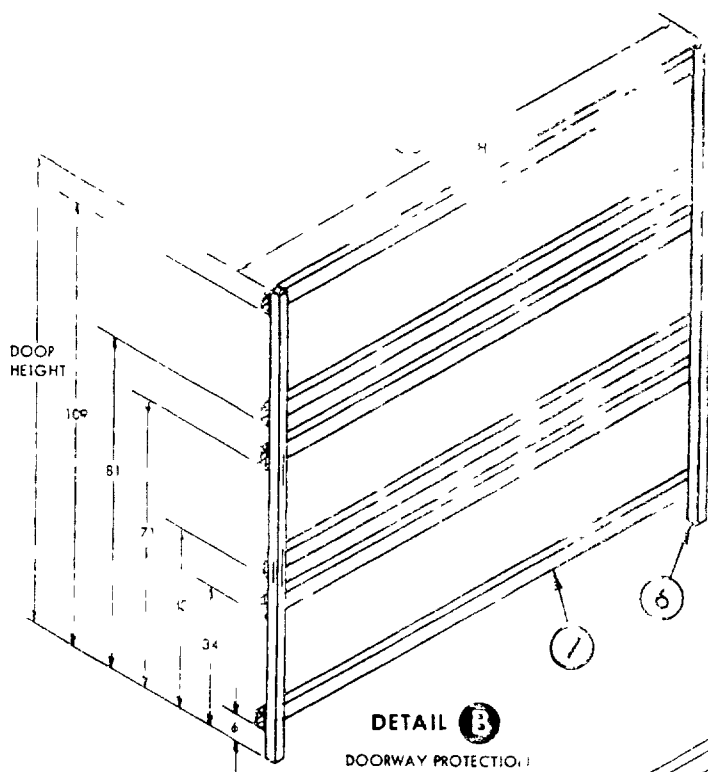


CARLOAD DATA

NUMBER OF UNIT LOADS	81
LOAD WEIGHT	76,651 LBS
DUNNAGE WEIGHT	1,180 LBS
CARLOAD WEIGHT	79,831 LBS



LOADING PLAN



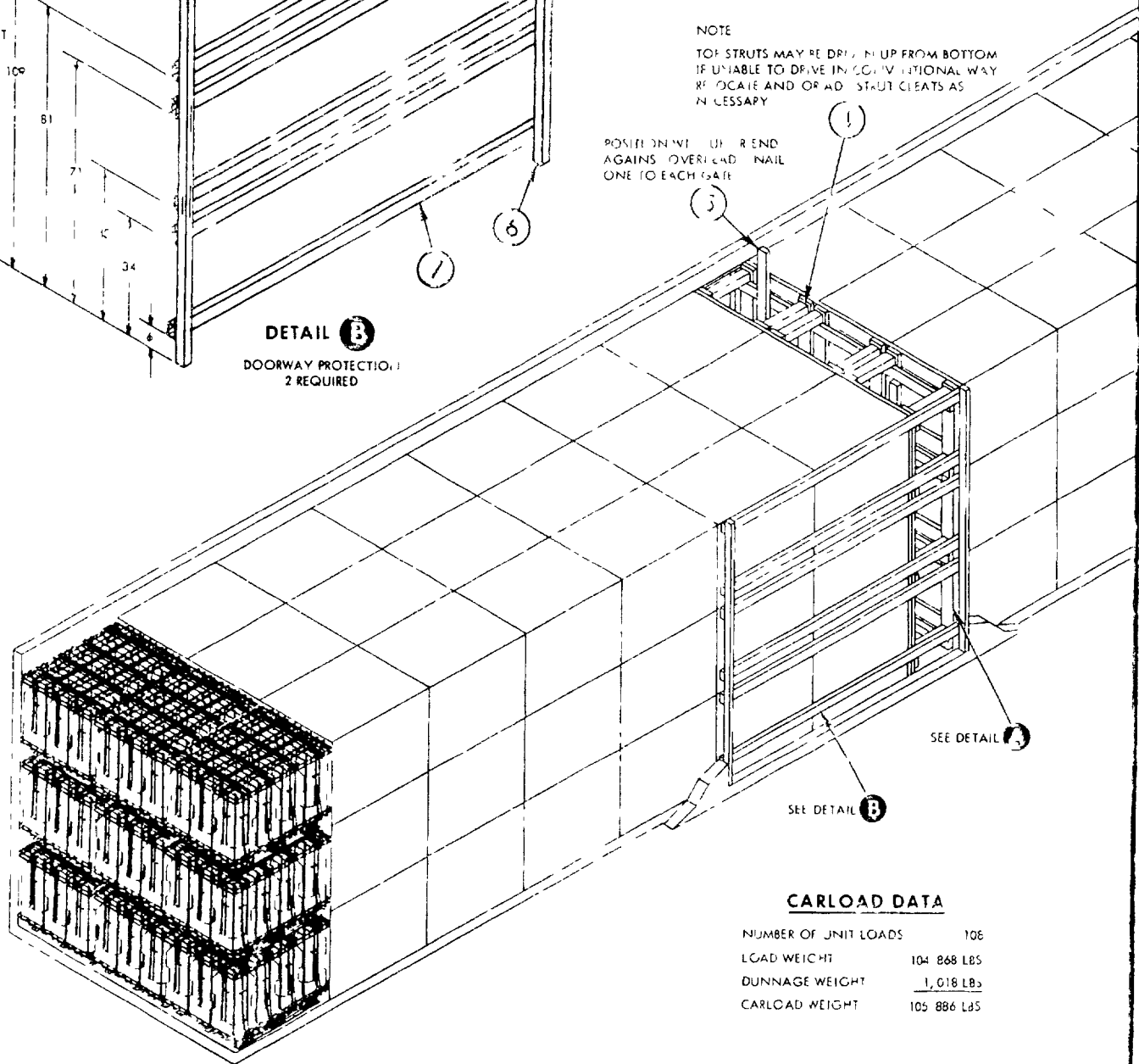
DETAIL B
DOORWAY PROTECTION
2 REQUIRED

MINIMUM CLEARANCE FOR DOORWAY PROTECTION AS SHOWN IN FIG. 21 IS REQUIRED

NOTE

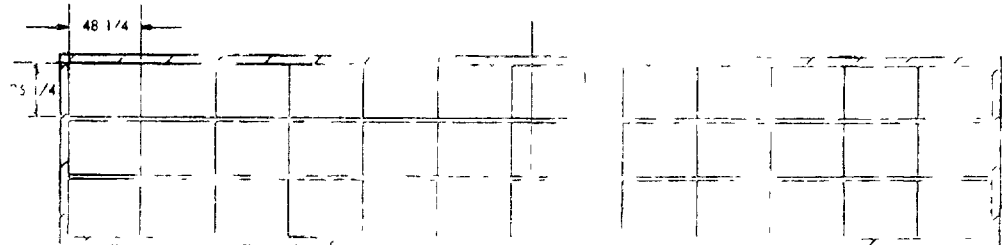
TOP STRUTS MAY BE DRIVEN UP FROM BOTTOM IF UNABLE TO DRIVE IN CONVENTIONAL WAY RELOCATE AND OR ADJUST STRUT CLEATS AS NECESSARY

POSITION INVERT END AGAINST OVERHEAD RAIL ONE TO EACH GATE



CARLOAD DATA

NUMBER OF UNIT LOADS	106
LOAD WEIGHT	104 888 LBS
DUNNAGE WEIGHT	1,018 LBS
CARLOAD WEIGHT	105 886 LBS



LOADING PLAN