NOTICE OF VALIDATION

INCH-POUND
MIL-STD-1325/180(OS)
NOTICE 1
23 February 1989

MILITARY SPECIFICATION

RAILCAR LOADING OF HAZARDOUS MATERIALS
DISPENSER AND BOMB, AIRCRAFT CBU-59(T-1)/B TRAINING
IN CONTAINER MK 427 MOD 1 FLEET ISSUE UNIT LOAD

MIL-STD-1325/180(OS) dated 05 APR.1976, has been reviewed and determined to be valid for use in acquisition.

Preparing Activity: Navy - OS

AMSC N/A

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MILITARY STANDARD

MIL-STD-1325-180

(NAVY) 5 APRIL 1976

RAILCAR LOADING OF HAZARDOUS MATERIALS

DISPENSER AND BOMB, AIRCRAFT CBU-59/B, COMPLETE (APAM) OR DISPENSER AND BOMB, AIRCRAFT CBU-59(T-1)/B TRAINING IN CONTAINER MK 427 MOD 1

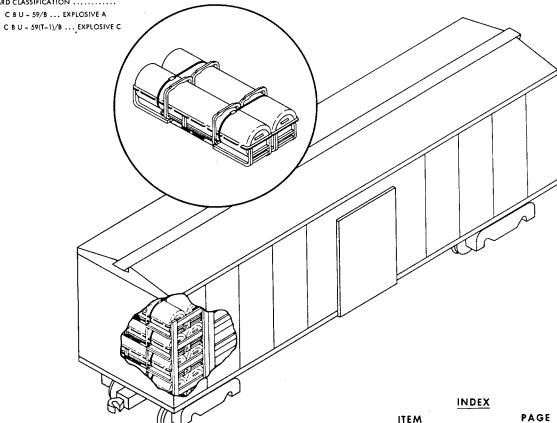
FLEET ISSUE UNIT LOAD

UNIT LOAD DATA

UNIT LOAD DRAWING WR-54/286 WEIGHT 2386 LBS DIMENSIONS 103 L X 47 1/4 W X 26 1/4 H STACKING HEIGHT 25 3/4

CUBE 73.9 CU FT D O T HAZARD CLASSIFICATION

C B U - 59/B ... EXPLOSIVE A



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

ITEM GENERAL NOTES DODX CARLOAD

50'-6" CARLOAD, COM'L

APPROVED BY BUREAU OF EXPLOSIVES

2 & 3 4, 5, 8 6

FSC 8140

AUTHORIZED AND RELEASED FOR GENERAL USE

SUPERVISOR, MILTARY AND INTERMODAL SERVICES

ORIGINATOR

Mc/Kide 3/30/76

NAVAL WEAPONS HANDLING LABORATORY

NAD EARLE, NEW JERSEY

PAGE 1 OF 6

CAL DIRECTION AGENT (TDA

(AIR) (ORD) SYSCOM, BY DIRECTION

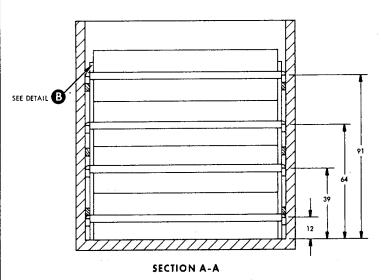
MIL-STD-1325-180 (NAVY)

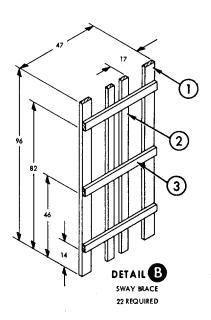
GENERAL NOTES

- 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
- WHEN PLANNING SHIPMENTS ORDER THE MINIMUM NUMBER OF CARS OF THE CAPACITY REQUIRED FOR THE SHIPMENT. DODX UTILITY LOADER CARS SHALL NOT BE USED FOR ITEMS WITH EXPLOSIVES A OR B HAZARD CLASSIFICATION.
- LOADING PLANS SHOWN ARE FOR DODX UTILITY LOADER CAR WITH 50 FT 6 INCHES INSIDE LENGTH, 107 3/4 INCHES INSIDE WIDTH BETWEEN RAILS (111 INCHES INSIDE WIDTH BETWEEN SIDE WALLS), 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 CAR ARE NOT SQUARE THEY MUST BE SQUARED OFF BEFORE STARTING TO LOAD CAR.
- 6. THE LOAD CONSISTS OF AIRCRAFT DISPENSER AND BOMB, CBU-59/B, COMPLETE (APAM) OR AIRCRAFT DISPENSER AND BOMB, CBU-59 (T-1)/8, TRAINING IN CONTAINER MK 427 MOD 1. THE CONTAINERS ARE UNITIZED TWO TO A UNIT LOAD AS SHOWN IN WR-54/286.
- 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 OR STRAP, RATHER THAN A TOOL THAT MAKES A NOTCH-TYPE JOINT. THE STRAPPING MUST BE IN ACCORDANCE WITH NAVSUP NOTICE 4642 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-S-781, STYLE III, HEAVY DUTY
- AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS INSIDE THE CAR IN AN ACCESSIBLE AREA, CLOSE AND SEAL BOXCAR DOORS, AND ATTACH APPLICABLE PLACARDS TO THE OUTSIDE OF CAR AS PRESCRIBED IN OP 2165 (VOL 1).

50 FT 6 IN. BOXCAR, DODX

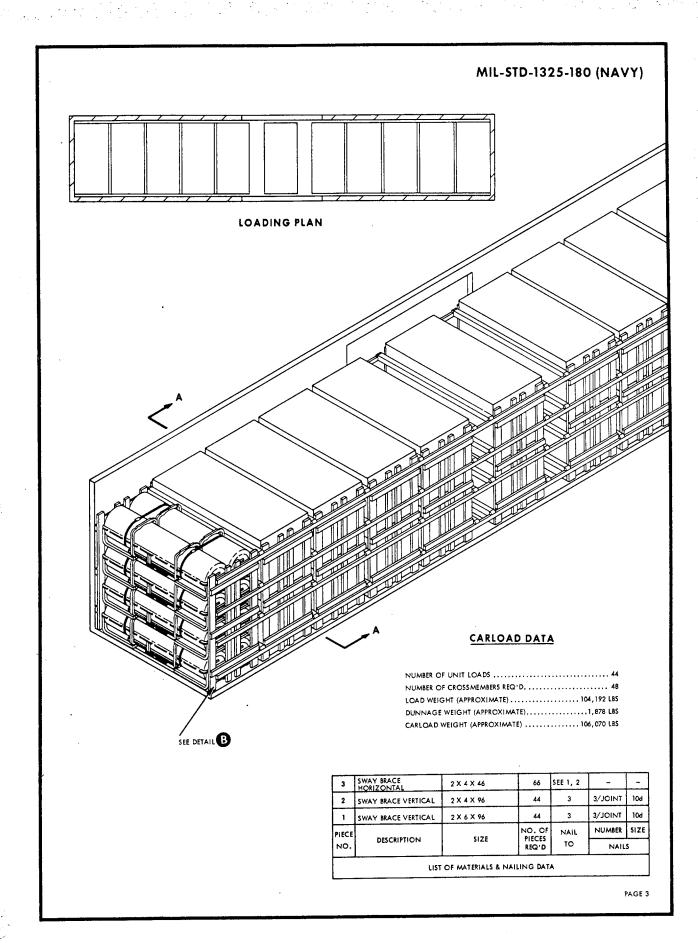
- 1. THE CARLOAD CONSISTS OF 44 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS PROCEDURAL
- 2. A DETAILED DESCRIPTION AND OPERATING INSTRUCTIONS FOR THE UTILITY LOADER ARE CONTAINED IN OP 1750.
- 3. TO PREVENT UNUSED "DF" EQUIPMENT FROM BECOMING DISLODGED DURING TRANSIT OF DODX CARS SECURE IT AT ANY LOCATION IN THE BOXCAR WHICH WILL NOT INTERFERE WITH UNLOADING.
- 4. WHEN LESS THAN CARLOAD (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 REQUIRE-MENTS 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 2400 LBS OF THE LADING.





SHOWING LOCATIONS OF WALL MEMBERS USED FOR CROSSMEMBERS

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MIL-STD-1325-180 (NAVY)

50 FT 6 IN. BOXCAR, COMMERCIAL

- THE CARLOAD CONSISTS OF 48 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS PROCEDURAL DRAWING.
- 2. WHEN LESS THAN CARLOAD (LCL) 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/OR PARTIAL LAYER BRACING CONSTRUCTED IN ACCORDANCE WITH MIL-STD-1325-100 (NAVY) OR PARTIAL UPPER LAYER BRACING IN ACCORDANCE WITH MIL-STD-1325-102 (NAVY). SELECT THE TYPE OF BRACE TO COMPLY WITH THE WEIGHT OF THE UNITS TO BE RETAINED. 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 10 FT WIDE DOORWAY OPENINGS AND ARE EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOORS. THE DEPICTED PROCEDURES AND METHODS OF BLOCKING ARE APPLICABLE TO BOXCARS EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOORS OTHER THAN 10 FT WIDE.
- 4. THE DEPICTED PROCEDURES AND METHODS OF BLOCKING ARE ALSO APPLICABLE TO BOXCARS EQUIPPED WITH PLUG TYPE DOORS.

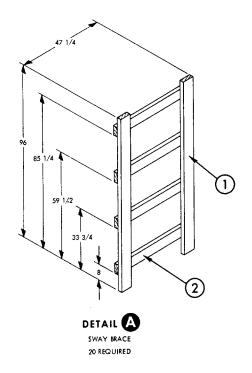
 STACKS WITH MORE THAN HALF OF THE UNIT LOAD IN THE DOORWAY AREA MUST HAVE THE SWAY BRACE EACH SIDE OF THE STACK

 SECURED TO THE STACK WITH TWO LATERALLY APPLIED 1 1/4 IN STEEL STRAPS PER STACK, EACH TENSIONED AND SEALED WITH TWO

 DOUBLE CRIMPED SEALS. IF THE CAR FLOOR IS NOT A NAILABLE FLOOR DOORWAY PROTECTION AS PER MIL-STD-1325 (NAVY) IS

 REQUIRED, CLOSE DÓORS SECURELY AND WIRE TOGETHER WITH A FLEXIBLE STRONG STEEL WIRE INSERTED THROUGH THE HOLES

 IN THE DOOR LATCH ASSEMBLY ONE OR MORE TIMES AND THE WIRE ENDS TWISTED TOGETHER.
- 5. WHEN BOXCARS WIDER THAN 9 FT 2 IN ARE USED, INCREASE THE THICKNESS OF PIECE 1 BY LAMINATING AN APPROPRIATELY THICK PIECE TO IT. IF THE WIDTH OF BOXCARS USED IS LESS THAN 9 FT 2 IN DECREASE THE THICKNESS OF PIECE 1 AS NECESSARY.



- * 2 X 6 STRUTS DOUBLED AND LAMINATED WITH 10d NAILS MAY BE SUBSTITUTED IN PLACE OF 4 X 4'5...
- ** WHEN BOXCAR HAS A NON-NAILABLE FLOOR DOORWAY PROTECTION AS PER MIL-STD-1325 (NAVY) IS REQUIRED.

νо.	DESCRIPTION	SIZE	NO. OF PIECES REQ'D	NAIL TO	NAILS	
PIECE	DESCRIPTION				NUMBER	SIZE
1	SWAY BRACE VERTICAL	2 X 6 X 96	40	SEE 2		
2	SWAY BRACE HORIZONTAL	2 X 6 X 47 1/4	80	1	3 PER JOINT	108
3	SEPARATOR GATE VERTICAL	2 X 6 X 104	10	4	3 PER JOINT	104
4	SEPARATOR GATE HORIZONTAL	2 X 6 X CAR WIDTH - 1	4	SEE 3	-	-
5	SLEEPER	2 X 6 X 103	2	CAR** FLOOR	1 PER FOOT	16d
6	SLEEPER	2 X 6 X 103	2	5	1 PER FOOT	16d
7	VERTICAL STRAP	1 1/4 X .035 X 12 FT 6	12	_		-
8	HORIZONTAL STRAP	1 1/4 X .035 X 22 FT	2	-		-
'n	SEAL	1 1/4	28	-	-	-
10	CENTER GATE HORIZONTAL	2 X 6 X CAR WIDTH - 1	8	11	3 PER JOINT	10d
11	CENTER GATE	2 X 6 X 104	10	SEE 10		-
12	CENTER GATE STRUT CLEAT	2 X 4 X CAR WIDTH - 1	8	11	3 PER JOINT	10d
13	STRUT	4 X 4 X * WEDGE FIT	20	11	2 PER JOINT	16d
14	CENTER GATE HOLD DOWN	2 X 3 X 48	2	11	2 PER JOINT	10d

