

# MILITARY STANDARD

## LOADING OF HAZARDOUS MATERIALS AND ASSOCIATED ITEMS IN MILVAN CONTAINERS

MIL-STD-1386-33

(NAVY)

11 JANUARY 1974

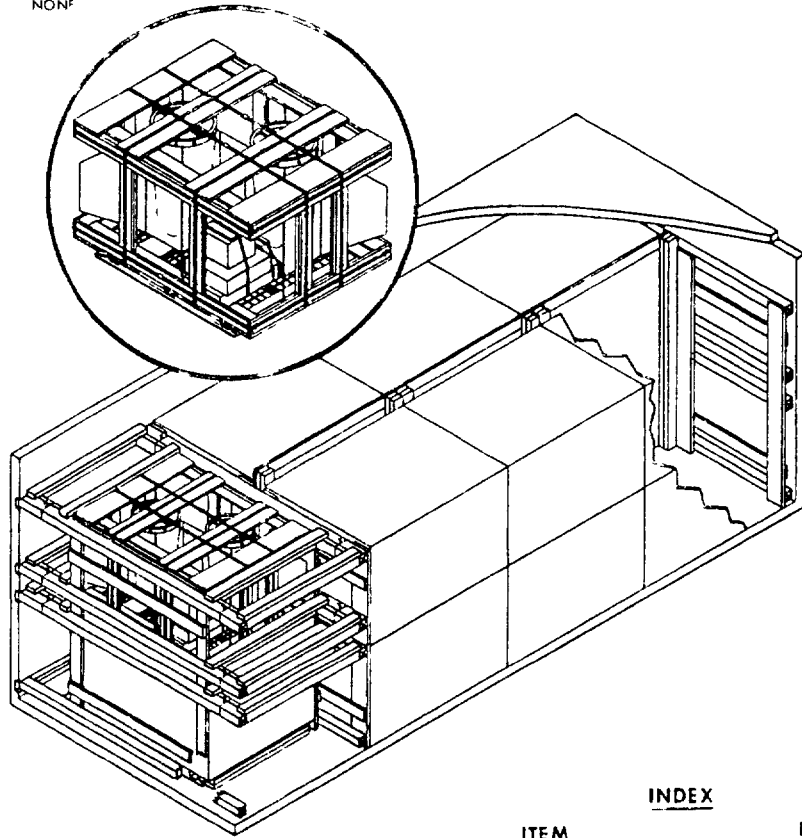
BOMB GUIDANCE KIT, KMU-351 A/B

(LESS SEEKER ASSEMBLY)

FLEET ISSUE UNIT LOAD

**UNIT LOAD DATA**

UNIT LOAD DRAWING	WP-54 236
WEIGHT	484 LBS
DIMENSIONS	57 L x 44 W x 36 3/8 H
CUBE	52.7 CU. FT
DOT HAZARD CLASSIFICATION	INERT
COAST GUARD CLASSIFICATION	NONF



**NOTES**

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

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FSC 8140

**AUTHORIZED FOR TRAILER-ON-FLAT-CAR (TOFC), CONTAINER-ON-FLAT-CAR (COFC), CONTAINERSHIP AND HIGHWAY SHIPMENTS**

*M. S. ...* 12/16/73  
 SIGNATURE TECHNICAL DIRECTION AGENT (TDA) DATE  
*J. E. ...* 12/19/73  
 SIGNATURE AIR SYSCOM BY DIRECTION DATE

ORIGINATOR

*Charles McPhee* 12/5/73  
 SIGNATURE

NAVAL WEAPONS HANDLING LABORATORY  
 N A D EARLE, NEW JERSEY

PAGE 1 OF 1

**MIL STD 1386-36 (NAVY)**

**GENERAL NOTES**

- 1 THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR LOADING THE MILVAN CONTAINER WITH 14 UNIT LOADS OF BOMB GUIDANCE KITS, KMU-351 A/B (LESS SEEKER ASSEMBLY). THE BOMB GUIDANCE KITS SHALL BE PALLETIZED IN ACCORDANCE WITH 1/8-51/236
- 2 THE MILVAN SHALL BE EQUIPPED WITH A MECHANICAL LOAD BRACING SYSTEM THAT MEETS THE REQUIREMENTS OF THE BUREAU OF EXPLOSIVES PAMPHLET 6C
- 3 IN ADDITION TO THE BELT RAILS REQUIRED BY PAMPHLET 6C, THE MILVAN CONTAINER HAS BELT RAILS AT THE 72 AND 83 INCH HEIGHTS FROM THE CONTAINER FLOOR

**CAUTION**

WHEN POSITIONING CROSSMEMBERS MAKE A VISUAL CHECK TO ENSURE THAT THE CROSSMEMBERS ARE LOCKED SECURELY IN PLACE

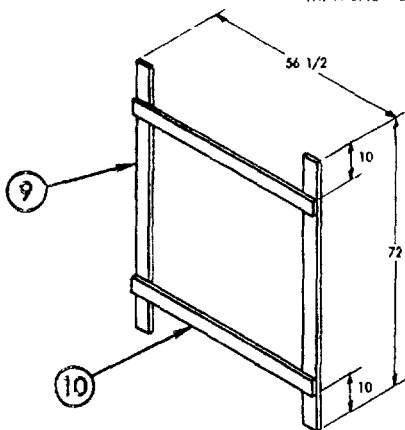
- 4 CONTAINERS ARE EQUIPPED WITH 25 CROSSMEMBERS. UNUSED CROSSMEMBERS MUST REMAIN WITH CONTAINER AND SHALL BE FASTENED INTO BELT RAILS FOR SHIPMENT
- 5 WHEN THE LONGITUDINAL SLACK BETWEEN A CROSSMEMBER AND THE UNIT LOAD IS GREATER THAN ONE INCH, USE FILL MATERIAL TO SHIM BETWEEN CROSSMEMBER AND UNIT LOAD AS SHOWN IN DETAIL F
- 6 LENGTH OF STRUT, PIECE E, SHALL BE SUFFICIENT TO CAUSE DETAIL E TO FILL THE VOID BETWEEN THE UNIT LOAD AND THE CONTAINER SIDE WALL. TWIST TIE BOTH ENDS OF THE ASSEMBLY TO THE CROSSMEMBER WITH 16 GAUGE SOFT ANNEALED WIRE
- 7 APPLICABLE MATERIAL SPECIFICATIONS  
 DUNNAGE LUMBER - FED SPEC MM-L-751  
 NAILS - FED SPEC, FF-N-105, TYPE II, STYLE 10, COMMON BRIGHT
- 8 AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA AND CLOSE AND SEAL CONTAINER DOORS

**TOFC/COFC, CONTAINERSHIP AND HIGHWAY**

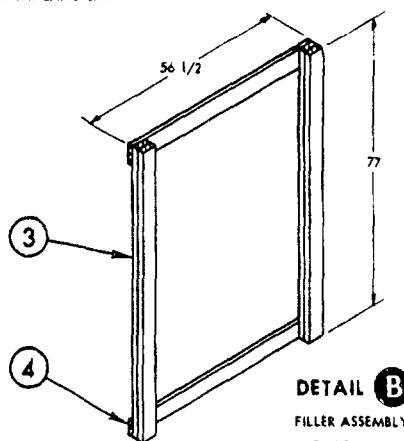
- 1 THE LOADED MILVAN CONTAINER SHALL BE ON A 20-FT MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES WHEN BEING MOVED IN TOFC SERVICE
- 2 THE LOADED CONTAINER MAY BE TRANSPORTED OVER PUBLIC HIGHWAYS ON THE MILVAN CHASSIS USING THE FOLLOWING CONFIGURATIONS:
  - A ONE CONTAINER ON 20-FT MILVAN CHASSIS WITH A DOUBLE BOGIE AND PULLED BY A DOUBLE DRIVE AXLE TRACTOR
  - B TWO CONTAINERS ON A 40-FT MILVAN CHASSIS WITH A DOUBLE BOGIE AND PULLED BY A DOUBLE DRIVE AXLE TRACTOR.
- 3 THE LOADED CONTAINER MAY BE TRANSPORTED OVER PUBLIC HIGHWAYS USING SUITABLE COMMERCIAL EQUIPMENT OF ADEQUATE CAPACITY AND PULLED BY A DOUBLE DRIVE AXLE TRACTOR. CONTAINERS MUST BE ADEQUATELY SECURED TO THE EQUIPMENT
- 4 THE LOADED CONTAINERS MAY BE SHIPPED TOFC/COFC. WHEN SHIPPING TOFC THE FOLLOWING CONFIGURATIONS ARE AUTHORIZED:
  - A ONE CONTAINER ON 20-FT MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES
  - B TWO CONTAINERS ON 40-FT MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES

**WARNING**

CHASSIS/CONTAINERS COUPLED INTO A 40-FT TRAILER CONFIGURATION MUST BE PLACED AT THE B-END OF THE TOFC RAILCAR. THE REAR END OF THE 40-FT UNIT WILL OVERHANG THE END OF THE CAR IF IT IS PLACED AT THE A-END. 20-FT AND 40-FT UNITS CAN BE LOADED ON THE SAME CAR.



**DETAIL A**  
SEPARATOR GATE  
2 REQUIRED

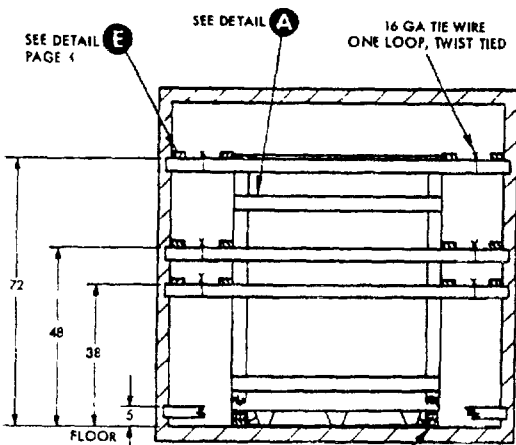
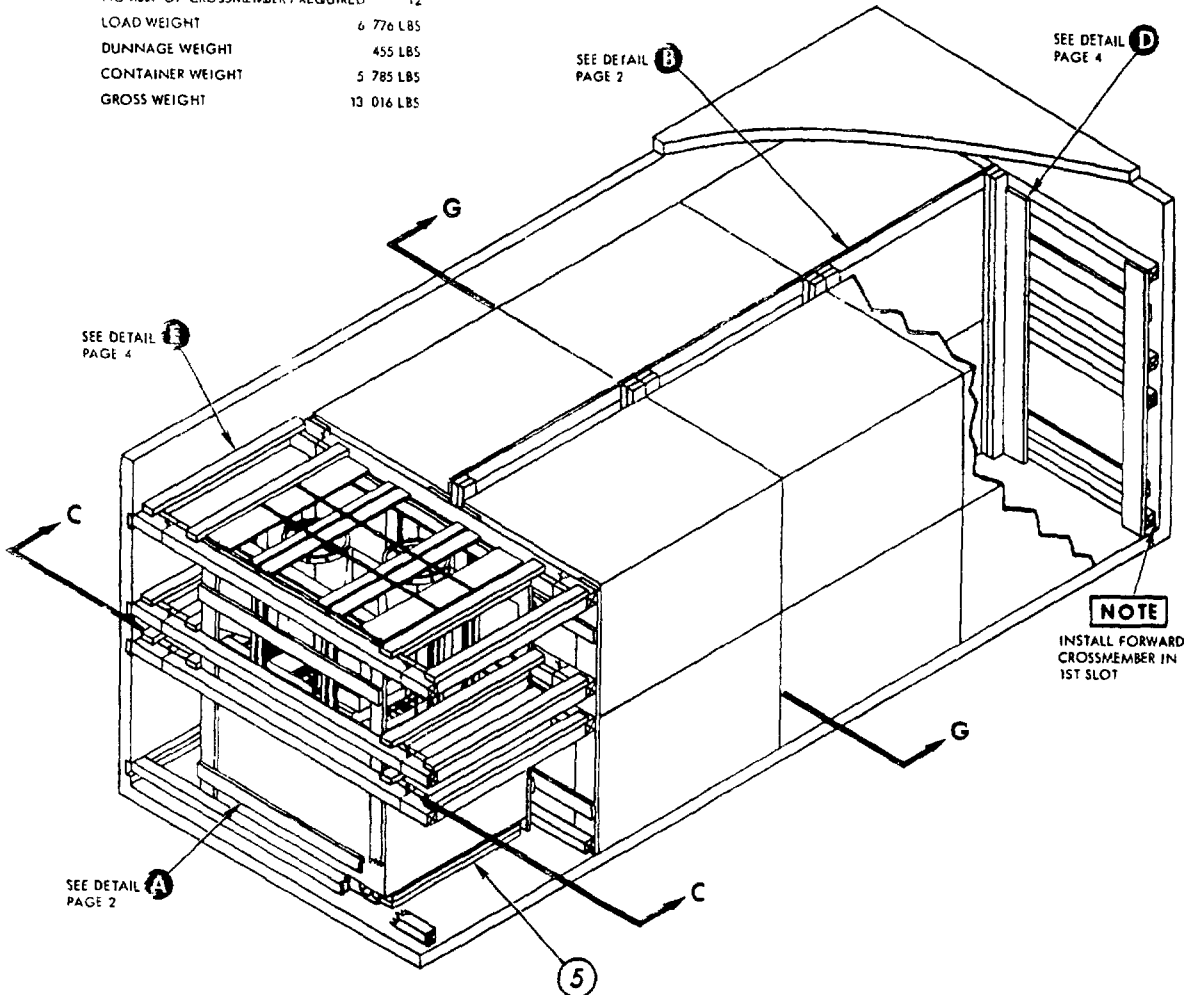


**DETAIL B**  
FILLER ASSEMBLY  
3 REQUIRED

MIL-STD-1386-36 (NAVY)

**CONTAINER LOAD DATA**

NUMBER OF UNIT LOADS	14
NUMBER OF CROSSMEMBERS REQUIRED	12
LOAD WEIGHT	6 776 LBS
DUNNAGE WEIGHT	455 LBS
CONTAINER WEIGHT	5 785 LBS
GROSS WEIGHT	13 016 LBS



2 x 4 x 40 DOUBLED, NAIL FIRST PIECE TO CONTAINER FLOOR W/1-16d NAIL EVERY 8 INCHES NAIL 2ND PIECE TO 1ST IN LIKE MANNER

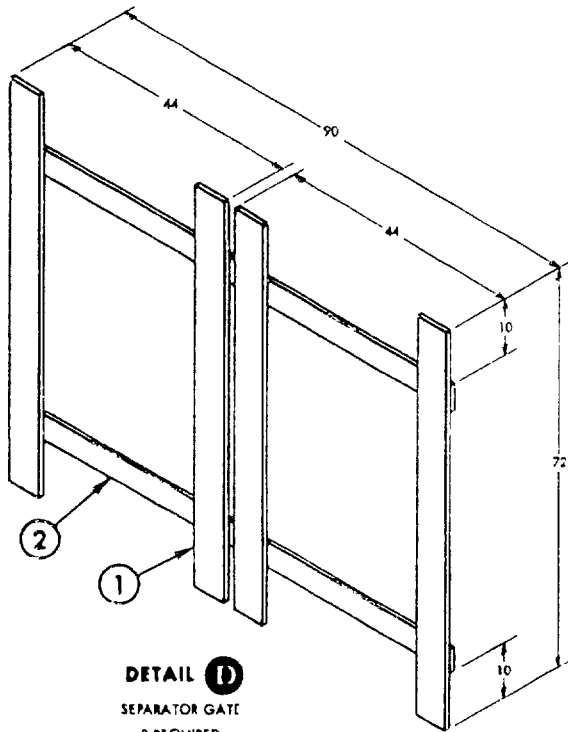
\* CLINCHED

PIECE NO	DESCRIPTION	SIZE	NO PCS REQD	NAIL TO	NUMBER NAILS	SIZE
10	HORIZONTAL	1 x 4 x 56 1/2	4	9	3 PER JOINT	8d*
9	VERTICAL	1 x 4 x 72	4	SEE 10	-	-
8	SUPPORT	2 x 4 x 46	12	7	7	10d
7	LONGITUDINAL	2 x 4 x 45	12	6	2 PER JOINT	16d
6	CROSSMEMBER	2 x 4 x TO SUIT	12	SEE 7	-	-
5	SLEEPER	2 x 4 x 40	4	SEE SECTION C-C		
4	HORIZONTAL	1 x 4 x 56 1/2	6	3	3 PER JOINT	10d
3	VERTICAL	2 x 4 x 77	12	-	4	10d
2	HORIZONTAL	1 x 4 x 90	4	SEE 1	-	-
1	VERTICAL	1 x 6 x 72	8	2	3 PER JOINT	8d*

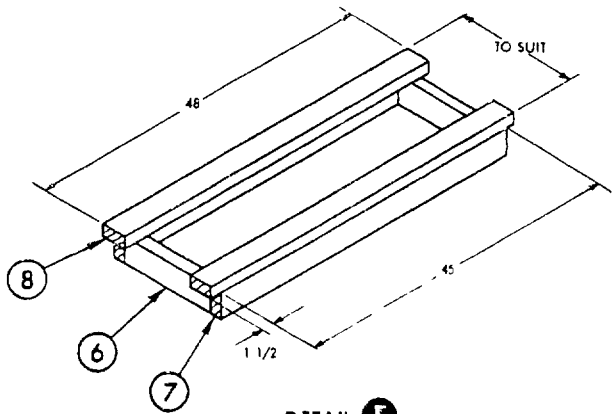
LIST OF MATERIALS AND NAILING DATA

SECTION C-C

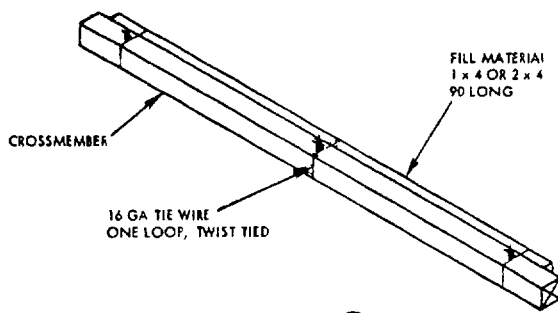
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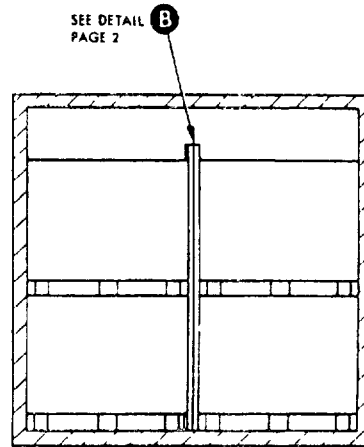
**DETAIL D**  
SEPARATOR GATE  
2 REQUIRED



**DETAIL E**  
SWAY BRACE ASSEMBLY  
6 REQUIRED  
SEE GENERAL NOTE 6



**DETAIL F**  
FILL MATERIAL  
SEE NOTE 5



**SECTION G-G**

REVIEW ACTIVITY  
NAVY-OS

PREPARING ACTIVITY  
NAVY-OS  
PROJECT NO. 814G-N218