

# MILITARY STANDARD

MIL-STD-1386-1/  
(NAVY)

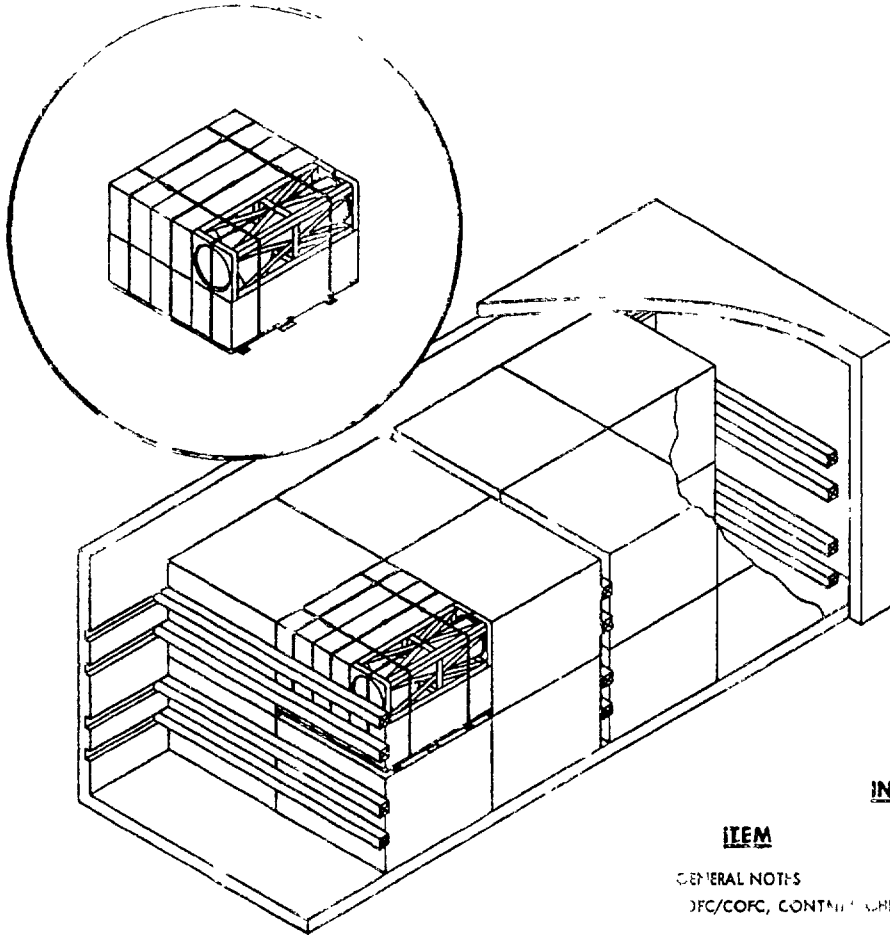
## LOADING OF HAZARDOUS MATERIALS AND ASSOCIATED ITEMS IN MILVAN CONTAINERS

1 OCTOBER 1972

FIN ASSEMBLY, BOMB FOR 1000 LB MK 83 BOMB  
IN BOMB CRATE MK 10 & MOD 3  
FLEET ISSUE UNIT LOAD

### UNIT LOAD DATA

UNIT LOAD DRAWING	WK-54/49
WEIGHT	740 LBS
DIMENSIONS	45 5/8 L x 45 1/2 W x 34 7/8 H
CUBE	42 CU FT
DOT HAZARD CLASSIFICATION	INERT
COAST GUARD CLASS	NO. 6



### INDEX

ITEM	PAGE
GENERAL NOTES	2
TOFC/COFC, CONTAINER SHIP AND HIGHWAY	2 & 3

### NOTES

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

**AUTHORIZED FOR TRAILER-ON-FLATCAR (TOFC), CONTAINER-ON-FLATCAR (COFC), CONTAINER SHIP, AND HIGHWAY SHIPMENTS.**

*W.S. Gray* *W.K.H.L.* *9/15/72*  
 NATURE: \_\_\_\_\_ HAZARDOUS MATERIALS AGENT (SDA) DATE: \_\_\_\_\_  
*Gr. [Signature]* *9/14/72*  
 NATURE: \_\_\_\_\_ (AIRVSYSCOM BY DIRECTION) DATE: \_\_\_\_\_

ORIGINATOR

FEDERAL WEAPONS HANDLING LABORATORY  
 1500 BARCLAY BLVD., NEW JERSEY

AMSTO-1386 17 (NAVY)

## GENERAL NOTES

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR LOADING THE MILVAN CONTAINER WITH FLEET ISSUE UNIT LOADS OF BOMB FIN ASSEMBLIES FOR 1300 LB MK 83 BOMBS IN BOMB CRATE MY 10 & MODS. THE UNIT LOAD SHALL BE IN ACCORDANCE WITH WR 54/49.
2. THE MILVAN SHALL BE EQUIPPED WITH A MECHANICAL LOAD-BRACING SYSTEM THAT MEETS THE REQUIREMENTS OF THE BUREAU OF EXPLOSIVES PAMPHLET 6C AND SHIPPED ON FLATCARS THAT MEET THE REQUIREMENTS OF PAMPHLET 6C. 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.
3. CONTAINERS ARE EQUIPPED WITH 25 CROSSMEMBERS. UNUSED CROSSMEMBERS MUST REMAIN WITH THE CONTAINER AND SHALL BE FASTENED INTO BELT RAILS FOR SHIPMENT.

### CAUTION

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

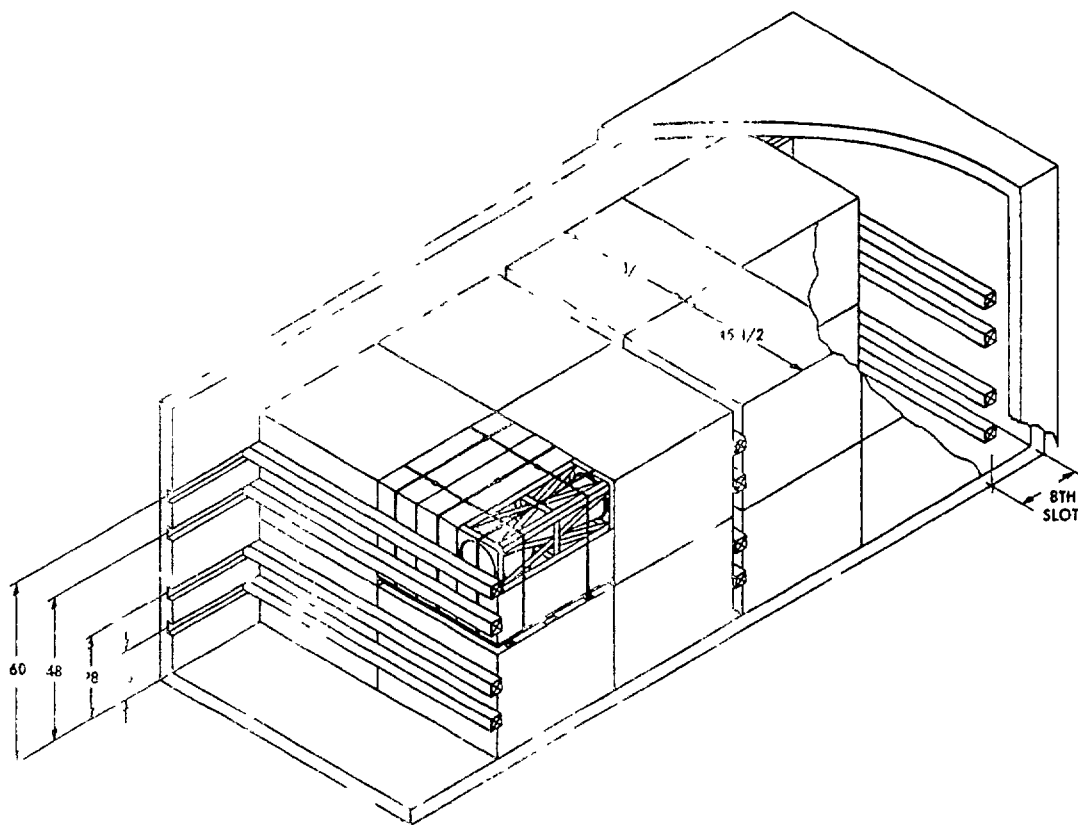
5. WHEN THE VOID BETWEEN THE CROSSMEMBER AND THE UNIT LOAD IS GREATER THAN ONE INCH USE FILL MATERIAL TO SHIM BETWEEN CROSSMEMBER AND UNIT LOAD AS SHOWN IN DETAIL A.
6. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA AND CLOSE AND SEAL CONTAINER DOORS.

## TOFC/COFC, CONTAINERSHIP AND HIGHWAY

1. THE CONTAINERLOAD CONSISTS OF 16 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS DOCUMENT.
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 LOCATED IN THE NEXT TO LAST HOLE AND PULLED BY A SINGLE OR DOUBLE DRIVE AXLE TRACTOR.
  - B. TWO CONTAINERS ON A 40-FT MILVAN CHASSIS WITH TWO BOGIES LOCATED IN THE REARMOST POSITION AND PULLED BY A DOUBLE DRIVE AXLE TRACTOR.
3. ONE OR TWO LOADED CONTAINERS MAY ALSO BE TRANSPORTED OVER PUBLIC HIGHWAYS ON SUITABLE COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY. 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.

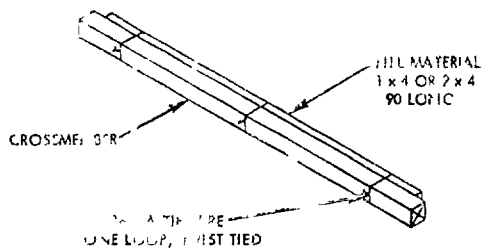
### WARNING

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.



**CONTAINER LOAD DATA**

NUMBER OF UNIT LOADS . . . . .	16
NUMBER OF CROSSMEMBERS REQ'D . . . . .	12
LOAD WEIGHT . . . . .	11,840 LBS
DUNNAGE WEIGHT . . . . .	NONE
CONTAINER WEIGHT . . . . .	5,785 LBS
CROSS WEIGHT . . . . .	17,625 LBS



ONE LOOP, FIRST TIED

**D-TAIL**

MATERIAL