

# MILITARY STANDARD

MIL-STD-1386-30  
(NAVY)

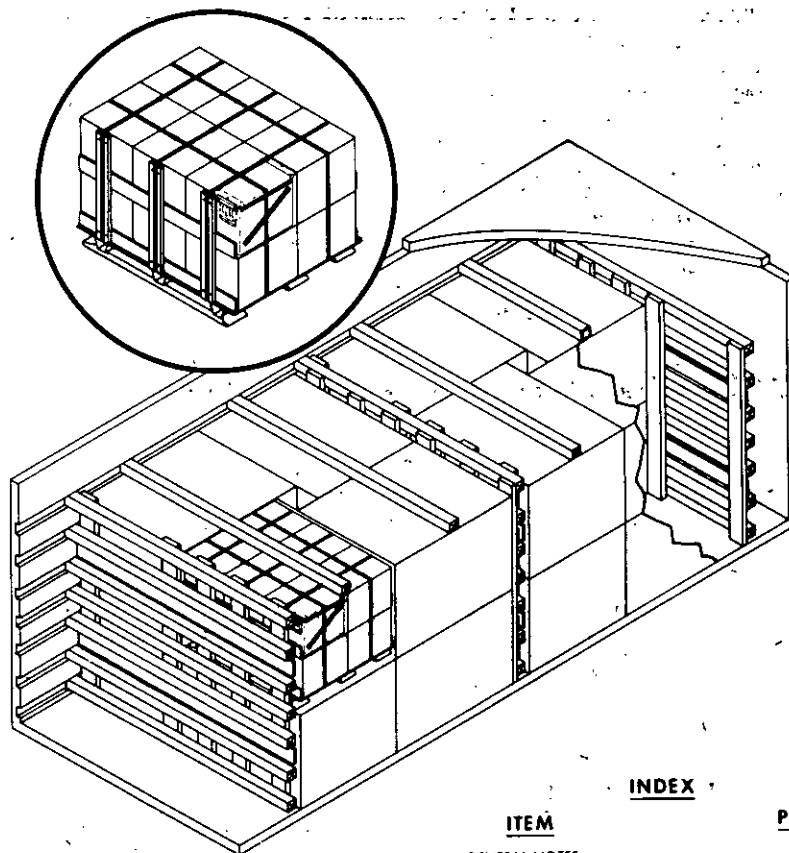
11 JANUARY 1974

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

### CARTRIDGE, 20MM, M50 SERIES BELTED WITH MK 7 OR M14 LINKS IN CONTAINER M548 FLEET ISSUE UNIT LOAD

#### UNIT LOAD DATA

UNIT LOAD DRAWING ..... WR-54/187  
 WEIGHT ..... 2210 LBS  
 DIMENSIONS ... 49 5/8 L x 40 1/2 W x 34 H  
 CUBE ..... 39.5 CU FT  
 DOT HAZARD CLASS ..... EXPLOSIVE B  
 COAST GUARD CLASS ..... II-B



**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 CONTAINER-ON-FLAT-CAR (COFC), CONTAINERSHIP AND MOVEMENT ABOARD DEPOT (NON-PUBLIC) ROADS ONLY.**

**APPROVED BY US COAST GUARD**

*N. Selving* CAPT USEG  
 DATE 9-28-73

**APPROVED BY BUREAU OF EXPLOSIVES**

*A. F. Prosser*  
 DATE 10/5/73

*M. J. ...* NWHL 11/2/73  
 SIGNATURE TECHNICAL DIRECTION AGENT (TDA) DATE

*J. ...* 11/2/73  
 SIGNATURE AIRSYSCOM BY DIRECTION DATE

**ORIGINATOR**

*L. P. ...*  
 SIGNATURE

**NAVAL WEAPONS HANDLING LABORATORY**  
 N A D EARLE, NEW JERSEY

**MIL-STD-1386-30 (NAVY)****GENERAL NOTES**

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR LOADING THE MILVAN CONTAINER WITH FLEET ISSUE UNIT LOADS OF 20MM CARTRIDGES. THE UNIT LOAD SHALL BE PALLETIZED IN ACCORDANCE WITH WR-54/187.
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 THE CONTAINER AND SHALL BE FASTENED INTO BELT RAILS FOR SHIPMENT.
5. WHEN THE VOID BETWEEN THE CROSSMEMBER AND THE SEPARATOR GATE IS GREATER THAN ONE INCH, USE FILL MATERIAL TO SHIM BETWEEN CROSSMEMBER AND GATE AS SHOWN IN DETAIL C.
6. THE VOID BETWEEN THE HOLD DOWN CROSSMEMBER AND THE TOP OF THE UNIT LOAD SHALL NOT EXCEED ONE HALF INCH. IF REQUIRED, SHIM BETWEEN CROSSMEMBER AND UNIT LOAD AS SHOWN IN DETAIL D.
7. APPLICABLE MATERIAL SPECIFICATIONS:  
 DUNNAGE LUMBER - FED. SPEC. MM-L-751  
 NAILS - FED. SPEC. FF-N-105, TYPE II, STYLE 10, COMMON BRIGHT  
 STRAP - FED. SPEC. QQ-S-781, TYPE I, CLASS A
8. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA, CLOSE AND SEAL CONTAINER DOORS AND ATTACH APPLICABLE PLACARDS TO THE OUTSIDE OF THE CONTAINER FOR THE APPROPRIATE MODE OF TRANSPORTATION AS PRESCRIBED IN OP 2165 (VOL. 1).

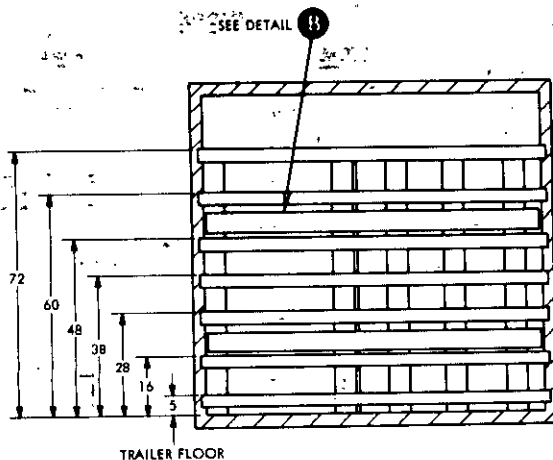
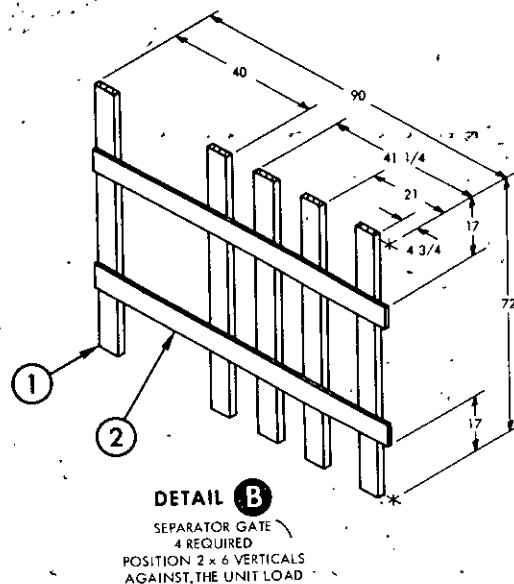
**COFC AND CONTAINERSHIP ONLY**

1. THE CONTAINER LOAD CONSISTS OF 16 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS DOCUMENT.

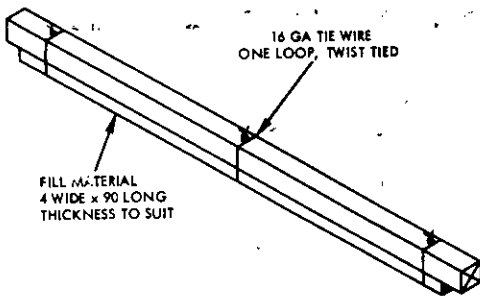
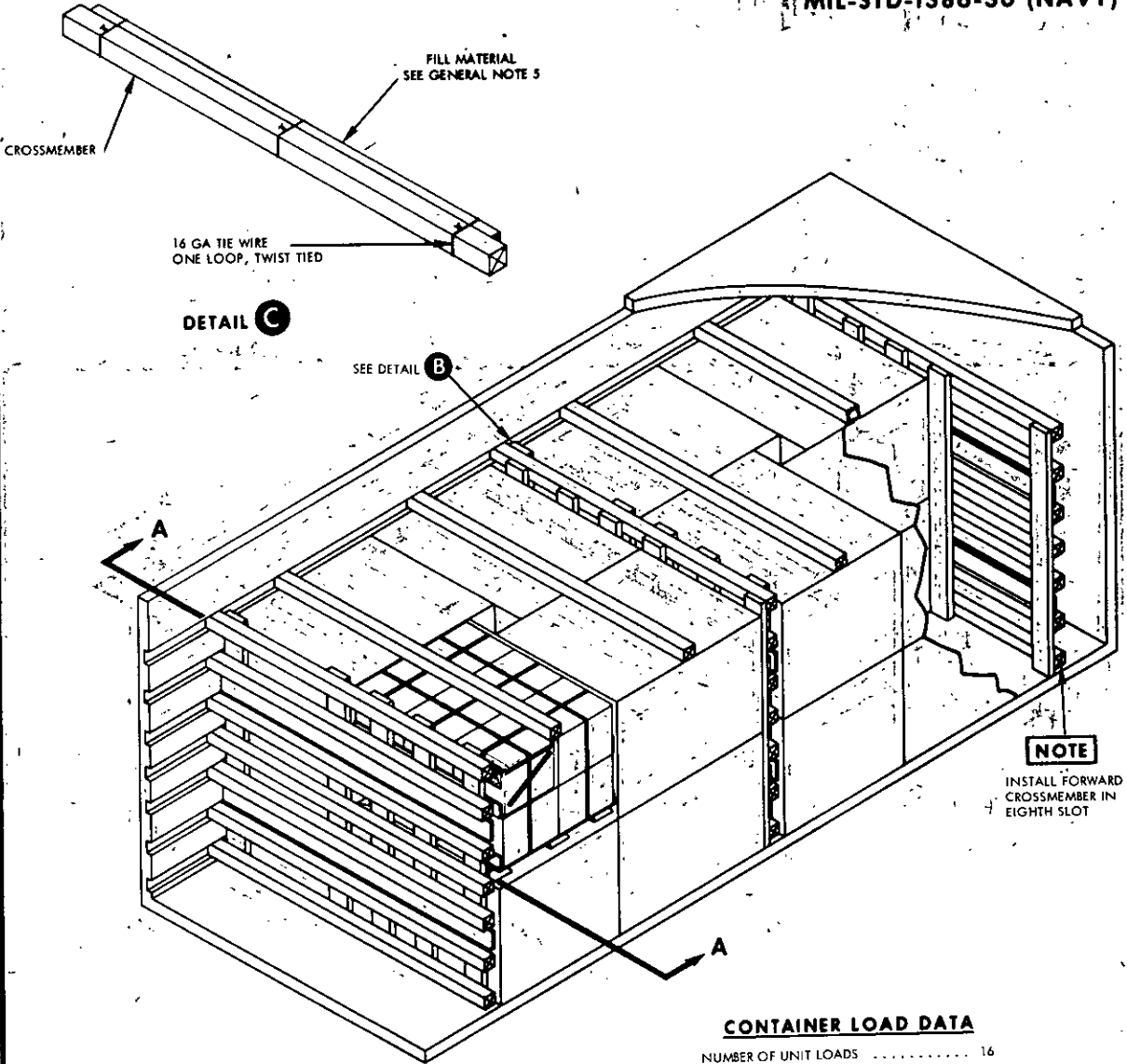
**WARNING**

BECAUSE THE WEIGHT LOADED INTO THIS CONTAINER EXCEEDS 34,000 LBS, THE MILVAN CHASSIS CANNOT BE USED TO TRANSPORT THE LOADED CONTAINER ON PUBLIC HIGHWAYS. THE LOADED CONTAINER MAY BE TRANSPORTED OVER DEPOT ROADS USING MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES OR COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY.

2. WHEN SHIPPING THE LOADED MILVAN CONTAINER COFC, THE FLAT RAILCAR SHALL MEET THE REQUIREMENTS OF THE BUREAU EXPLOSIVES PAMPHLET 6C.

**SECTION A-A**

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**DETAIL D**  
HOLD DOWN  
SEE GENERAL NOTE 6

**CONTAINER LOAD DATA**

NUMBER OF UNIT LOADS	16
NUMBER OF CROSSMEMBERS REQ'D	25
LOAD WEIGHT	35,360 LBS
DUNNAGE WEIGHT	375 LBS
CONTAINER WEIGHT	5,785 LBS
GROSS WEIGHT	41,520 LBS

\* CLINCHED

\*\*CW - CONTAINER WIDTH

PIECE NO.	DESCRIPTION	SIZE	NO. PCS REQD	NAIL TO	NUMBER	SIZE
2	HORIZONTAL	1 x 6 x CW <sup>**</sup> 1	8	SEE 1		
1	VERTICAL	2 x 6 x 72	20	2	3/JOINT	8d*
					NAILS	

LIST OF MATERIALS AND NAILING DATA

**MIL-STD-1386-30 (NAVY)**

REVIEW ACTIVITY:  
NAVY - OS, AS

PREPARING ACTIVITY:  
NAVY - OS  
(PROJECT NO. 8140-N204)