MILICARY STANDARD

MIL-STD-1386-20 (NAVY)

10 NOVEMBER 1972

LOADING OF HAZARDOUS MATERIALS AND ASSOCIATED ITEMS MILVAN CONTAINERS

> ROCKET LAUNCHER, LAU-69/A DOMESTIC UNIT LOAD

UNIT LOAD DATA

DIMENSIONS

CUBE

OH ER

UNIT LOAD DRAWING WR-53/839 65 3/4 L x 37 3/4 W x 44 7/8 H 64 5 CU FT LI TABLE I **INDEX ITEM**

NOTES

- 1 UNLOS OTTERWISE SPECIFIED DIMENSIONS ARE IN INCHES
- 2 FOR AROSS RE ERENCE TO ASSOCIATED PALLITIZING, TRUCK LOADING AND CARLO DING MULTARY STANDARDS, REFER TO THE INDEX TO STANDARDS, MIL-HDBK-236

AUTHORIZED FOR TRAILER-ON. FLAT CAR (TOSC), CONTAINED ON-FLAT CAR (COFC), CONTAINERSHIP AND HIGHWAY SHIPMENES

APPROVED 8Y US COAST GUARD

APPROVED BY BUREAU OF EXPLOSIVES

PAGE

2 8 3

CHICHAIOR SIGNATURE

HAYAL MEAPONS HANDLING LABORATOR

GENERAL NOTES

DETAILS

TOFC/COFC, CONTAINERSHIP & HIGHWAY

MAKELL OF LET OF MARAN

O HERAL NOTES

- THIS DUCULL INTIGING DETILED INSTRUCTIONS FOR LOADING THE MILL AN CONTAIN ER WITH DUMESTIC UT IT LOADS OF TOTAL THE LAUNCHEPS SHALL BE PALLETIZED IN ACCORDANCE WITH WP-53/839
 - * I NESTALL BE EQUIPPED WITH A MECHANICAL LOAD-BRACING SYSTEM THAT MEETS THE PEQUIREMENTS OF THE BUREAU LOSIVES PAMPHLET & C
 - THIS FIGHTO THE SELT RAILS RECUIRED BY PAMPHLET 6 C, THE MILVARY CONTAINER HAS BELT PAILS AT THE 72 AND 83 %.
 FEIGHTS FROM THE CONTAINER OF SOP

CAUHON

WHEN POSITIONING CROSSMEMBERS MAKE A VISUAL CHECK TO INSURE THAT CROSSMEMBERS ARE LOCKED SECUPELY IN PLACE

- 4 CONTAINERS ARE EQUIPPED WITH 25 CROSSMEMBERS UNUSED CROSSMEMBERS MUST REMAIN WITH THE CONTAINER AND SHALL REPORTED INTO BELT RAILS FOR SHIPMENT
- 5 IS DUNINAGE SPECIFIED IS OF NOMINAL SIZE. FOR EXAMPLE, 1 x 4 MATERIAL IS ACTUALLY 3/4 THICK BY 3.5/8 WIDE AND 2 x 3 ATERIAL IS ACTUALLY 1.5/8 PHICK BY 5.1/2 WIDE.
- WHEN THE YORD BETWEEN THE CROSSMEMBER AND THE UNIT LOAD IS GREATER THAN ONE INCH USE FILL MATERIAL TO SHIM.
 8LTWEEN CROSSMEMBER AND UNIT LOAD AS SHOWN IN DETAIL C.
- SMAY BRACE, DETAIL D, IS ASSEMBLED IN PLACE PIECF 1 IS POSITIONED INBOARD OF THE CORNER PALLET SKIDS
 WITH PIECES 2 AGAINST PALLET SKIDS NAIL TO PIECE 1 WITH THREE 10d NAILS PEP JOINT CUT PIECE 3 TO FIT BETWEEN PIECES 2 AND
 PUBLIC TO PIECE 1 WITH THREE 10d NAILS
- 8 APPLICABLE MATERIAL SPECIFICATIONS
 - DUNNAGE LUMBER FED SPEC MM-L-751
 - NAILS FED SPEC FF-N-105, COMMON CEMENT COATED, ALTERNATE, ANNULAR RING OR CHEMICALEY ETCHED TYPE STRAPPING FED SPEC QQ-5-781, TYPE 1, CL 455
- 9 AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA AND CLOSE AND SEAL CONTAINER DOORS

OFC/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 WHEN THE MILYAN CONTAINER IS SHIPPED TOFC OR COFC, THE RAIL CAR SHALL COMPLY WITH THE REQUIREMENTS OF THE BUREAU OF EXPLOSIVES PAMPHLET 6 C
- 3 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 VITH A DOUBLE BOGIE LOCATED IN THE NEXT TO LAST HOLE AND PULLED BY 4 SINGLE OR DOUBLE DRIVE AXLE TRAILER
 - B TWO CONTAINERS ON A 40-FT MILVAN CHASSIS WITH BOGIES LOCATED IN THE REARMOST POSITION AND PULLED BY A DOUBLE DRIVE AXLE TRAILER
- 4 THE LOADED CONTAINER MAY ALSO BE TRANSPORTED O VER PUBLIC HIGHWAYS USING SUITABLE COMMERCIAL EQUIPMENT OF ADEQUATE CAPACITY AND PULLED BY A DOUBLE DRIVE AXLE TRACTOP CONTAINERS MUST BE ADEQUATELY SECURED TO THE EQUIPMENT
- 5 THE LOADED CONTAINERS MAY BE SHIPPED TOFC/COFC WHEN SHIPPING TOFC THE FOLLOWING CONSIDERATIONS ARE AUTHORIZED
 - A ONE CONTAINER ON 20-FT MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGICS
 - E TWO CONTAINERS ON 40-FT MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES

WARNING

CHASSIS/COPITAINERS 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.

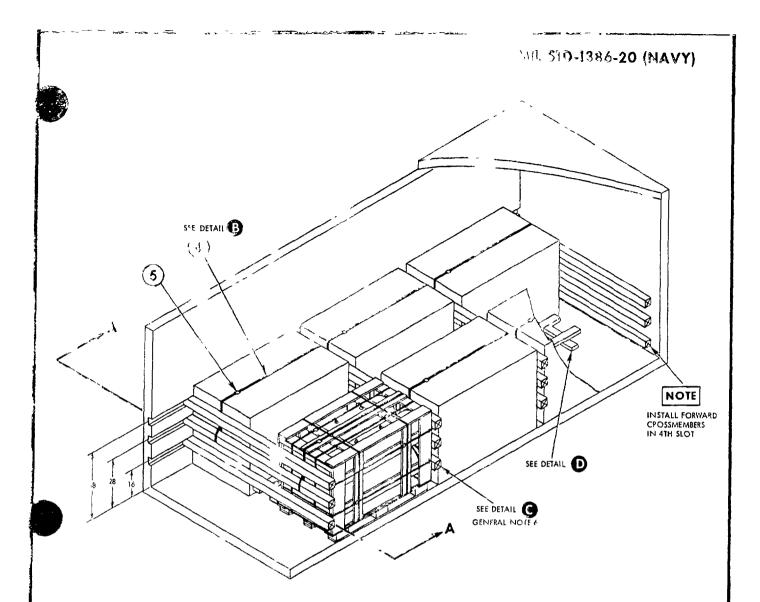
TABLE I

	ROCKET MOTOR	ROCKETS
MEIGHT THE	1163 LBS	1563 LBS
FOAD WEIGHT	6978 LBS	93/3 LBS
CONTINE	12,808 LBS	15, ∠08 L8S
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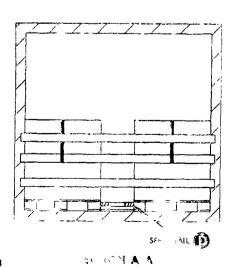






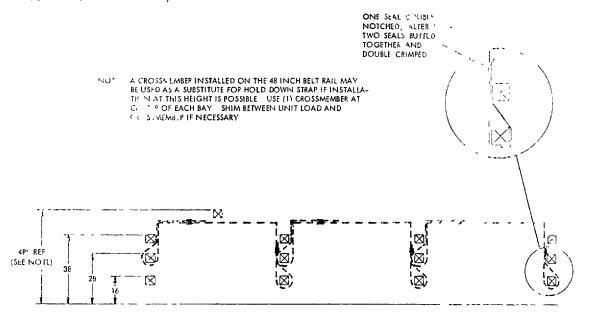
CONTAINER LOAD DATA

NUMBER OF UNIT LOADS . 6
NUMBER OF CROSSMEMBERS REQ*D 12
DUNNAGE WEIGHT . 130 LBS
CONTAINER WEIGHT 5,785 LBS
OTHER DATA . SEE TABLE 1



110.	DE CHERON	71 ZE	NO OF	NAIL TO	NAILS	
PIECE					NUMBER	SIZ
1	SUPPORT	2 x 4 × 28	6	SEE 2		-
2	STRINGER	2×4×60	6	1	3 PER JOINT	104
3	SPACEP	2 x 4 TO SUIT	6	1	3	10.
4	SIRAP	1 1/4 x .053 x	6		-	
5	SEAL	FOR 1 1/4 STRAP	12	-		<u> </u>

* (TO 1 35.1) [MANT.



STRAPPING DIAGRAM (INDICATES ATTACHMENT POINTS FOR HOLD DOWN STRAPPING)

