NOTICE OF VALIDATION

INCH FOUND
MIL-STD-1320/172(OS)
NOTICE 2
14 March 1989

#### MILITARY SPECIFICATION

TRUCKLOADING DISPENSER AND BOMB AIRCRAFT CBU-59/B,COMPLETE (APAM) DISPENSER AND BOMB, AIRCRAFT, CBU-59(T-1)/B,TRAINING IN CONTAINER MK 427 MOD 1 FLEET ISSUE UNIT LOADS

MIL-STD-1320/172(OS) dated 12  $_{\rm Jan.~1976}$  , has been reviewed and determined to be valid for use in acquisition.

Preparing Activity: Navy - OS

AMSC N/A

FSC 8140

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MIL-STD-1320-172 (NAVY) Notice 1 12 October 1977

# MILITARY STANDARD TRUCKLOADING

Dispenser and Bomb, Aircraft, CBU-59/B, Complete (APAM)
Dispenser and Bomb, Aircraft, CBU-59(T-1)/B, Training
in Container Mk 427 Mod 1
Fleet Issue Unit Load

TO ALL HOLDERS OF MIL-STD-1320-172 (NAVY)

### Page 2

- In general note 5, delete "Chains and load binders are not authorized for this load as they will cause the load to exceed 96 inches in width." and substitute "Chains and load binders may be used interchangeably with steel strap for tie-downs on a 1 to 1 basis. Chain, fittings and loadbinders shall meet the requirement of and installed in accordance with the basic Truckloading Document, MIL-STD-1320 (NAVY)
- In general note 5, delete "Class A" and substitute "Heavy Duty, Finish A, B, or C."

Review Activities:

NAVY - OS, AS

Preparing Activity:

NAVY - OS (Project No. 8140-N195)

**☆U.S. GOVERNMENT PRINTING OFFICE:** 1977-703-122/6746

FSC 8140

# **MILITARY STANDARD**

MIL-STD-1320-172 (NAVY)

# TRUCKLOADING

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

FLEET ISSUE UNIT LOAD

12 JANUARY 1976

#### UNIT LOAD DATA

 DIMENSIONS
 L-103, W-47, H-52

 WEIGHT (APPROX)
 2368 LBS

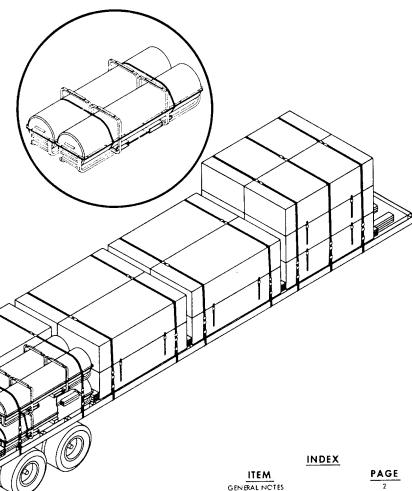
 CUBE
 73.9 CU. FT.

 DOT HA ZARD CLASSIFICATION:
 EXPLOSIVES A

 CBU-59/B
 EXPLOSIVES A

 CBU-59/(T-1)/B
 EXPLOSIVES C

 UNIT LOAD DWG
 WR-54/286



NOTES:

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

ITEM.	PAGE
GENERAL NOTES	2
LOAD STRAPPING	2
FTL 40 FT TRAILER	3
LTL 40 FT TRAILER	4 & 5
STACKING & STRAPPING	6

# AUTHORIZED AND RELEASED FOR HIGHWAY SHIPMENTS ONLY

SIGNATURE THE MIR SYSCOM BY DIRECTION DATE

SIGNATURE MIR SYSCOM BY DIRECTION DATE

ORIGINATOR De

Marly Me Made 13/15/75

NAVAL WEAPONS HANDLING LABORATORY

WPNSTA EARLE, NEW JERSEY

PAGE 1 OF 6

FSC 8140

# MIL-STD-1320-172 (NAVY)

# **GENERAL NOTES**

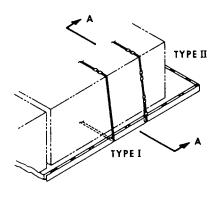
- THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR TRUCKLOADING THE DISPENSER AND BOMB, AIRCRAFT CBU-59/B, COMPLETE (APAM) AND CBU-59(T-1)/B, TRAINING, IN CONTAINER MK 427 MCD 1. THE CONTAINERS SHALL BE UNITIZED IN ACCORDANCE WITH WR-54/286.
- PROCEDURE AND PRACTICES DESCRIBED HEREIN ARE INTENDED FOR A 40 FT FLATBED TRAILER. THE TRAILER'S TANDEM AXLES SHALL BE LO-CATED IN THE "WESTERN" POSITION (AT THE EXTREME REAR OF THE TRAILER). DO NOT USE TRAILERS WITH METAL FLOORS.
- 3. WHEN THE UNIT LOADS ARE STACKED TWO (2) OR MORE HIGH, THEY SHALL BE STACKED AND STRAPPED AS SHOWN ON PAGE 6.
- 4. SLEEPER, PIECE NO. 3, MUST BE PREPOSITIONED. IT SHOULD BE LOCATED AGAINST THE INSIDE EDGE OF THE INBOARD RUNNER OF THE CONTAINER AS SHOWN IN SECTION C-C.
- 5. HOLD-DOWN STRAPS SHALL BE 2 X .050 AND APPLIED AS SPECIFIED BY THE LOAD STRAPPING REQUIREMENT SHOWN BELOW.

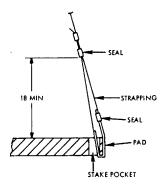
#### NOTE

CHAINS AND LOAD BINDERS ARE <u>NOT</u> AUTHORIZED FOR THIS LOAD AS THEY WILL CAUSE THE LOAD TO EXCEED 96 INCHES IN WIDTH.

- 6. THE MAXIMUM GROSS WEIGHT OF THE TRACTOR-TRAILER AND THE ALLOWABLE AXLE WEIGHTS ARE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THESE LIMITATIONS AND THE SHIPPER SHALL LOAD THE TRAILER IN SUCH A MANNER THAT THE TRACTOR-TRAILER WILL NOT EXCEED THESE LIMITATIONS.
- 7. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS TO AN ACCESSIBLE AREA AND ATTACH APPROPRIATE PLACARD (SEE UNIT LOAD DATA, PAGE 1) TO BOTH SIDES, FRONT, AND BACK OF TRAILER.
- APPLICABLE MATERIAL SPECIFICATIONS: DUNNAGE LUMBER, MM-L-751; NAILS FF-N-105, TYPE II, SYTLE 10, COMMON BRIGHT; STRAPPING QQ-5-781, TYPE I, CLASS A.
- 9. FOR GENERAL TRUCKLOADING PROCEDURES REFER TO THE GENERAL TRUCKLOADING DOCUMENT, MIL-STD-1320.

# LOAD STRAPPING





SECTION A-A

#### TIE-DOWN STRAPPING

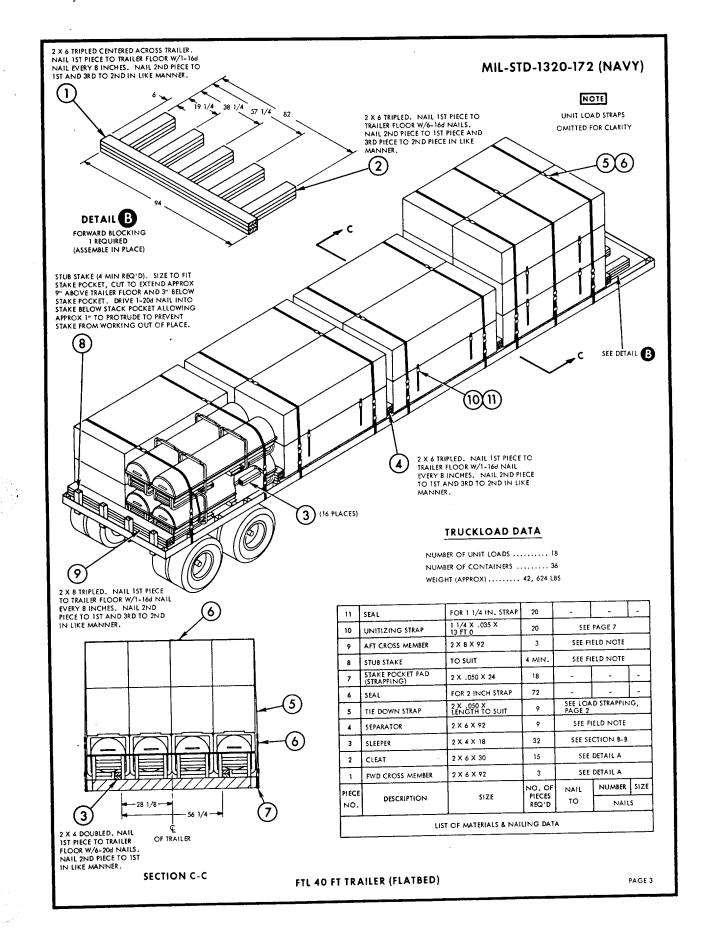
THE FCLLCWING TWO METHODS OF TIE-DOWN STRAPPING ARE APPROVED FOR USE WITH THE SHIPMENT OF LOADS ON FLATBED TRAILERS.

STEEL STRAPPING SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION OQ-S-781. STRAPPING SEALS SHALL HAVE A MINIMUM TENSILE

STRENGTH EQUAL TC 75 PERCENT OF THE STRAP STRENGTH. FOR EACH OF THE TYPES ILLUSTRATED ABOVE IT IS PREFERRED TO POSITION, TENSION,
AND DOUBLE CRIMP THE STRAP SEALS AT THE TOP OF THE LOAD, IF PRACTICABLE.

TYPE I - CONTINUOUS STRAPPING AROUND THE FLATBED AND THE LOAD.

TYPE II - THE STRAPPING IS SECURED TO THE STAKE POCKETS, ONE PIECE ON EACH SIDE OF THE TRAILER, AND IS BROUGHT UP OVER THE LOAD, TENSIONED, AND SEALED WITH TWO DOUBLE-CRIMPED SEALS ON THE TOP. METHOD OF SECURING STRAPPING TO STAKE POCKET IS SHOWN IN SECTION A-A. THE SHORT END IS ON THE INSIDE AND IS SECURED WITH TWO DOUBLE-CRIMPED SEALS AT A MINIMUM OF 18 INCHES ABOVE THE TRAILER BED. A STAKE POCKET PAD (A SHORT PIECE OF THE SAME STRAPPING 18 INCHES LONG) IS INSERTED BETWEEN THE MAIN STRAP AND THE STAKE POCKET AND IS SECURED TO THE MAIN STRAP WITH A SEAL AS SHOWN.



# MIL-STD-1320-172 (NAVY)

# LTL 40 FT TRAILER (FLATBED)

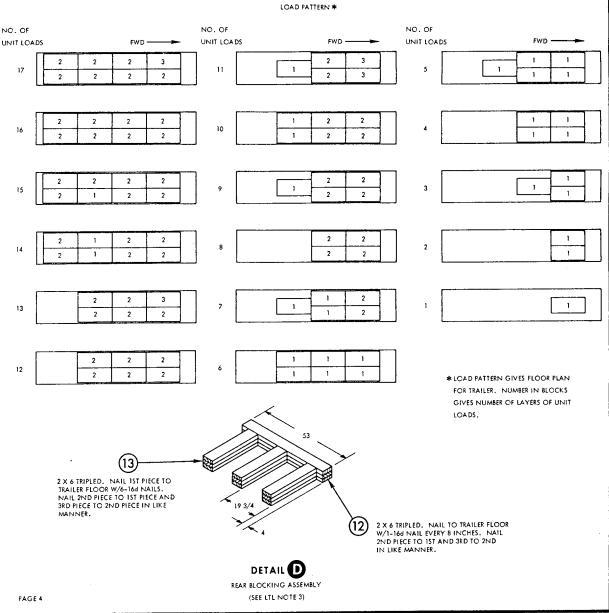
WHEN REQUIRED TO SHIP LESS-THAN-TRUCKLOAD, SELECT THE CORRECT LOAD PATTERN FOR THE NUMBER OF UNIT LOADS TO BE SHIPPED
FROM TABLE I AND POSITION THE UNIT LOADS ON THE TRAILER ACCORDINGLY.

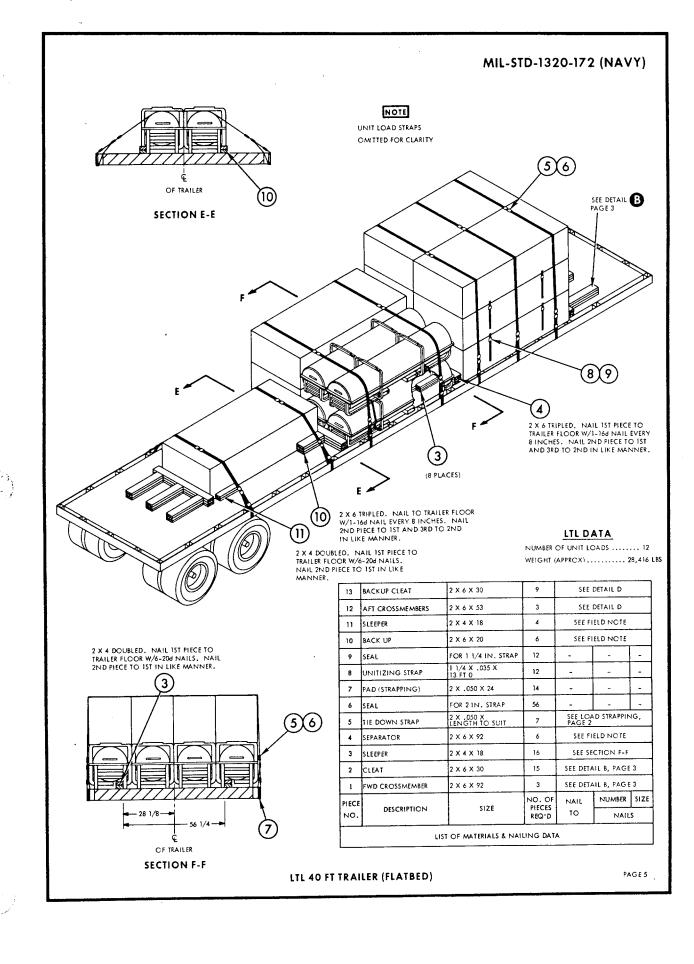
# NOTE

STACKS OF CONTAINERS 3 HIGH REQUIRE 3 HOLD-DOWN STRAPS. ALL OTHERS REQUIRE 2 HOLD-DOWN STRAPS.

- 2. WHEN LOADING 14 TO 17 UNIT LOADS, BLOCK, BRACE AND TIE DOWN THE LOAD USING THE PRINCIPLES SHOWN ON PAGE 3.
- 3. WHEN LOADING 13 OR LESS UNIT LOADS, BLOCK, BRACE AND TIE DOWN THE LOAD USING THE PRINCIPLES SHOWN ON PAGE 5. LTL LOADS OF 2, 4, 6, 8, 10, 12 AND 13 UNIT LOADS SHALL BE BLOCKED AT THE REAR OF THE LOAD USING DETAIL B, PAGE 2.
- 4. THE LTL ON PAGE 5 IS FOR 11 UNIT LOADS AND SHOWS THE CORRECT BLOCKING, BRACING AND TIE DOWNS FOR A LOAD OF THIS QUANTITY.
- ACTUAL SHIPPING REQUIREMENTS WILL DETERMINE THE NUMBER OF UNIT LOADS TO BE SHIPPED. THE LOAD PATTERN, BLOCKING, BRACING
  AND TIE DOWNS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE PARTS OF THIS MILITARY STANDARD AND THE GENERAL TRUCKLOADING
  DOCUMENT, MIL-STD-1320 (NAVY).

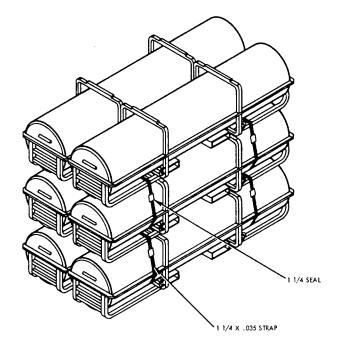
# TABLEI



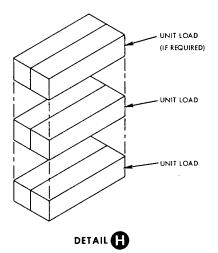


MIL-STD-1320-172 (NAVY)

# STACKING AND STRAPPING PROCEDURE



NOTE
UNIT LOAD STRAPS
OMITTED FOR CLARITY





- USING A FORK LIFT TRUCK, STACK TWO (2) OR THREE (3) UNIT LOADS, AS REQUIRED, TOGETHER AS SHOWN IN DETAILS G & H.
  BE SURE TO ALIGN THE STACKING FEATURES.
- THE MIDDLE CONTAINERS ARE STRAPPED TO THE BOTTOM CONTAINERS AND THE TOP CONTAINERS TO THE MIDDLE CONTAINERS
  USING 1 1/4 x .035 STEEL STRAPPING, TENSIONED AND SEALED WITH DOUBLE CRIMPED SEAL. THE STRAPS PASS OVER THE SKIDS
  OF THE UPPER CONTAINER AND UNDER THE BODY OF THE LOWER CONTAINER.

### CAUTION

TENSION STRAPS SUFFICIENT TO INSURE INTEGRITY OF STACK. <u>DO NOT OVER TENSION.</u>

#### WARNING

THE STRAPPING TOGETHER OF UNIT LOADS
TO FORM A UNIT OF CONTAINERS TWO (2) OR
THREE (3) HIGH IS AUTHORIZED FOR LOADING
AND UNLOADING OF TRAILERS ONLY. ANY
MOVEMENT OF THESE LOADS IS LIMITED TO THAT
NECESSARY TO LOAD OR UNLOAD THE TRAILER.

REVIEW ACTIVITY:

PREPARING ACTIVITY: NAVY - CS (PROJECT NO. 8140-N312)

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