

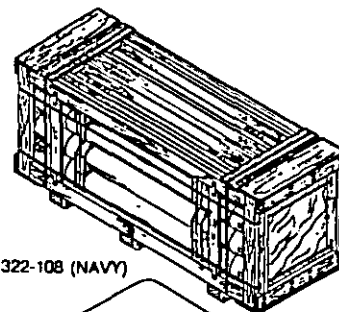
# MILITARY STANDARD

MIL-STD-1320-270  
(NAVY)

## TRUCKLOADING

20 JULY 1992

### TASK "A" ASSY TEST CHARGES ON WOODEN SKID WITH COVER & END FRAME ASSY'S (16 PACK UNIT LOADS)



UNITIZE/ MIL-STD-1322-108 (NAVY)

#### CONTAINER DATA

DIMENSIONS ..... L 78 1/2 X W 28 1/2 X H 34 1/4

GROSS WEIGHT OF WOOD SKID & PARTS ..... 183 LBS.

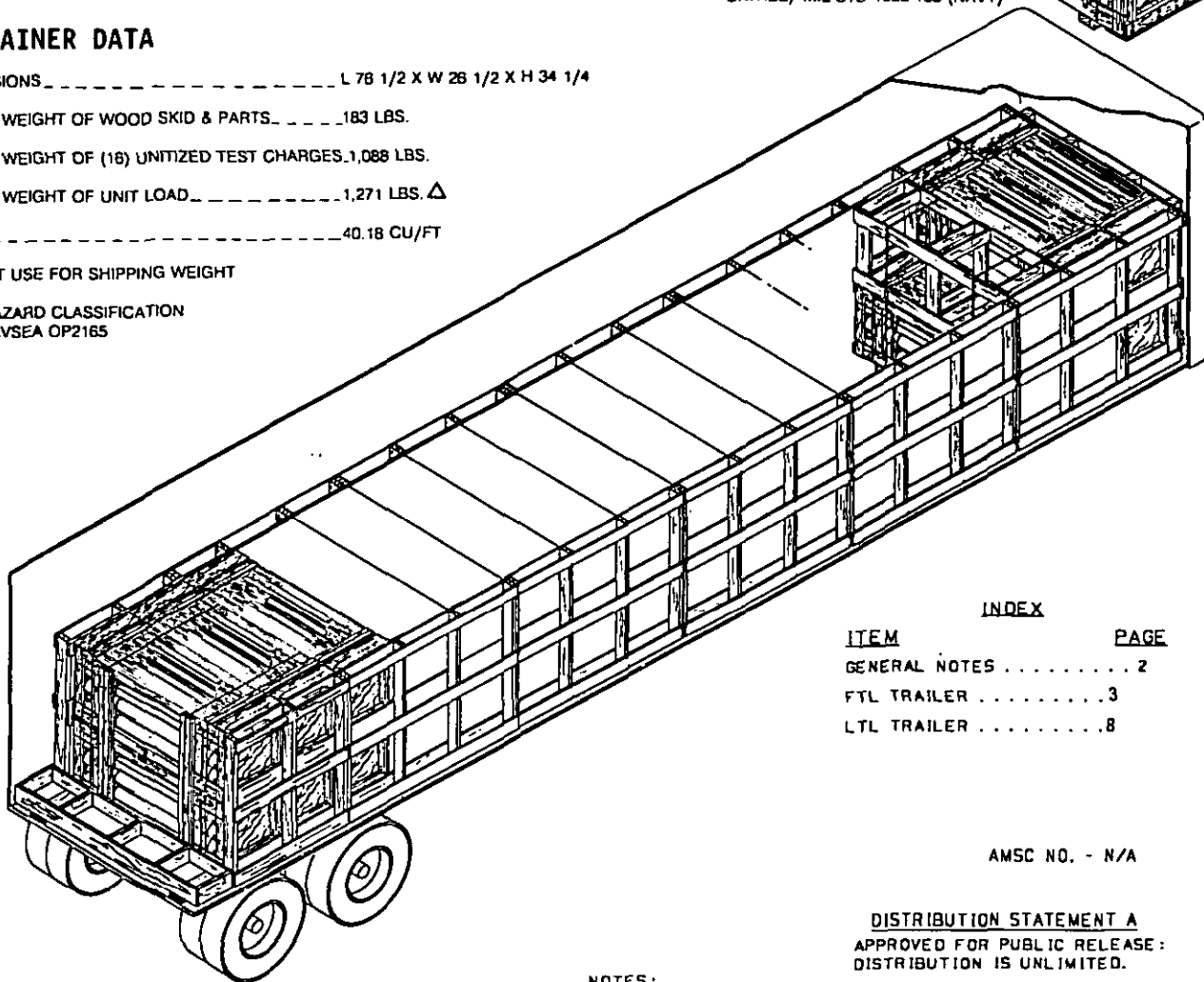
GROSS WEIGHT OF (16) UNITIZED TEST CHARGES 1,088 LBS.

GROSS WEIGHT OF UNIT LOAD ..... 1,271 LBS. Δ

CUBE ..... 40.18 CU/FT

Δ DO NOT USE FOR SHIPPING WEIGHT

FOR HAZARD CLASSIFICATION  
SEE NAVSEA OP2165



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AMSC NO. - N/A

DISTRIBUTION STATEMENT A  
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DISTRIBUTION IS UNLIMITED.

#### NOTES:

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

REV LTR	REVISION DESCRIPTION	DATE	TDA	SYSCOM
			APPROVAL	

FSC 8140

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*E. Ronald* 7/20/92  
SIGNATURE TDA, WPNSTA EARLE DATE

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DATE

WPNSTA EARLE, NEW JERSEY

**GENERAL NOTES:**

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR TRUCKLOADING UNIT LOADS OF TEST CHARGERS (8 OR 16 PACK UNIT LOADS) IN WOOD SKID ASSY. THE UNIT LOADS SHALL BE IN ACCORDANCE WITH MIL-STD-1322-108 (NAVY).
2. THE PROCEDURES DESCRIBED HEREIN ARE INTENDED FOR 40 FT THROUGH 48 FT ENCLOSED TRAILERS WITH THE TRAILER'S TANDEM AXLES LOCATED AS REQUIRED TO STAY WITHIN THE AXLE LOAD LIMITS OF THE STATES TO BE TRAVERSED. DO NOT USE TRAILERS WITH ALL METAL FLOORS.
3. 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 TRACTOR-TRAILER IN SUCH A MANNER THAT THE TRACTOR-TRAILER DOES NOT EXCEED THESE LIMITATIONS.
4. WHEN THE SPACE BETWEEN THE LADING AND REAR DOOR IS BETWEEN 10-36 INCHES USE DETAIL A AS THE REAR FILLER ASSEMBLY, ON PAGE 4. WHEN THE SPACE IS LARGER THAN 36 INCHES, DUE TO VARIOUS LTL SHIPMENTS OR LONGER TRAILERS, REFER TO THE VARIOUS REAR BLOCKING AND BRACING TECHNIQUES AS SHOWN ON PAGES 4, 7 & 8.
5. UNLESS OTHERWISE SPECIFIED, DUNNAGE LUMBER, STEEL STRAPPING, STRAP SEALS, AND NAILS SHALL BE AS SPECIFIED IN THE GENERAL TRUCKLOADING DOCUMENT MIL-STD-1320 (NAVY).
6. AFTER THE BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH THE SHIPPING DOCUMENTS TO AN ACCESSIBLE AREA INSIDE THE TRAILER. ATTACH THE PROPER EXPLOSIVES PLACARDS TO BOTH SIDES, FRONT, AND BACK OF THE TRAILER.
7. FOR GENERAL TRUCKLOADING PROCEDURES REFER THE GENERAL TRUCKLOADING DOCUMENT, MIL-STD-1320 (NAVY).

## FTL 40 FT VAN

## NOTE:

THE FTL PLAN SHOWN IS THE FULL TRUCKLOAD PLAN FOR A 40-FT TRAILER. THIS DOES NOT LIMIT FTL SHIPMENTS TO THE QUANTITIES OF UNIT LOADS, OR TRAILER LENGTH SHOWN. IF A LIGHTER WEIGHT (VAN) IS AVAILABLE IT MAY BE POSSIBLE TO OMIT THE USAGE OF FILLER ASSY, DETAIL K, AND USE A FULL UNIT LOAD IN ITS PLACE. CHECK WEIGHTS CAREFULLY BEFORE OMITTING THIS DETAIL AS TO AVOID OVERLOADING AXLES.

DETAIL B  
(UNITIZING LAST (2) UNIT LOADS)

SEE DETAIL J &  
DETAIL K

DETAIL E  
(FWD BULK HD ASSY)

DETAIL D  
(SIDE GATE ASSY)  
(FOR 3 WIDE STACKS)

DETAIL A  
(REAR BLOCKING ASSY)

DETAIL C  
(SIDE GATE ASSY)  
(FOR 2 WIDE STACKS)

## NOTES:

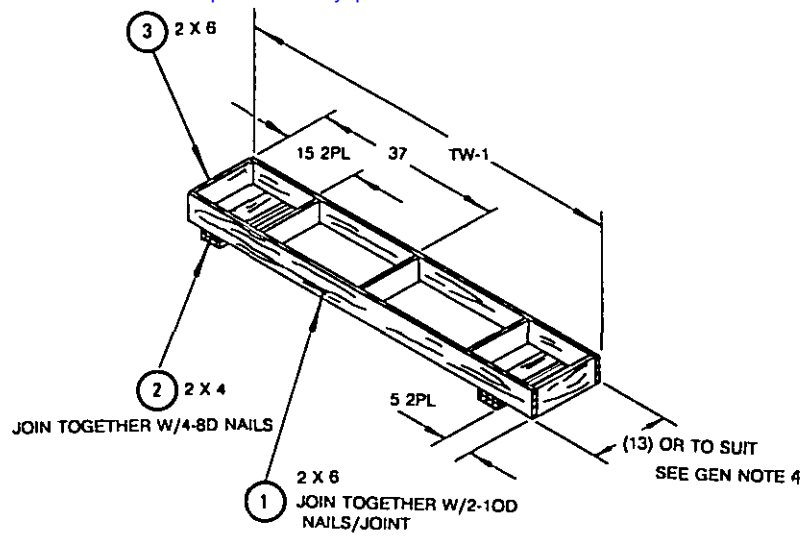
- \* ALL MATERIALS SHALL BE IN ACCORDANCE WITH MIL-STD 1320 (NAVY)
- DO NOT USE TYPE 1 STRAPPING WITH POWER MACHINES.

PARTS LIST CONTINUED ON PAGE 4

8	24	STAPLES	STL, DETAIL B	1 1/4
2	23	SEALS	STL, DETAIL B	1 1/4
2	22	STRAPPING	STL, DETAIL B	1 1/4 X .035 X 14FT
4	21	HORIZONTAL	DETAIL H (AR)	1 X 6 X DIM X
2	20	VERTICAL	DETAIL H (AR)	2 X 6 X DIM X
2	19	CROSSMEMBER	DETAIL G	2 X 6 X 48
6	18	CLEAT, BACKUP	DETAIL G	2 X 6 X 36
1	17	BRACE, UPRIGHT	DETAIL F	2 X 10 X 33
1	16	BRACE, BACKUP		2 X 6 X 31 1/2
2	15	BRACE, DIAGONAL		2 X 6 X 54
1	14	CLEAT	DETAIL F	2 X 6 X 39
3	13	HORIZONTAL	DETAIL E	2 X 6 X 78 1/2
3	12	HORIZONTAL		2 X 6 X TW-1
4	11	POST	DETAIL E	4 X 4 X 68 1/2
1	10	HORIZONTAL, INNER	DETAIL D	1 X 8 X 79 1/2
4	9	VERTICAL		2 X 6 X 66 1/2
5	8	HORIZONTAL	DETAIL D	1 X 6 X 79 1/2
1	7	HORIZONTAL, INNER	DETAIL C	1 X 8 X 53
5	6	HORIZONTAL		1 X 6 X 53
3	5	VERTICAL	DETAIL C	2 X 6 X 66 1/2
4	4	STIFFENER	DETAIL B	2 X 6 X 63
5	3	BRACE	DETAIL A	2 X 6 X 9
4	2	SUPPORT		2 X 4 X 12
2	1	CROSS MEMBER	DETAIL A	2 X 6 X TW-1*
REQ'D	ITEM	DESCRIPTION	* MAT'L/DWG	DIMENSIONS

LIST OF MATERIALS

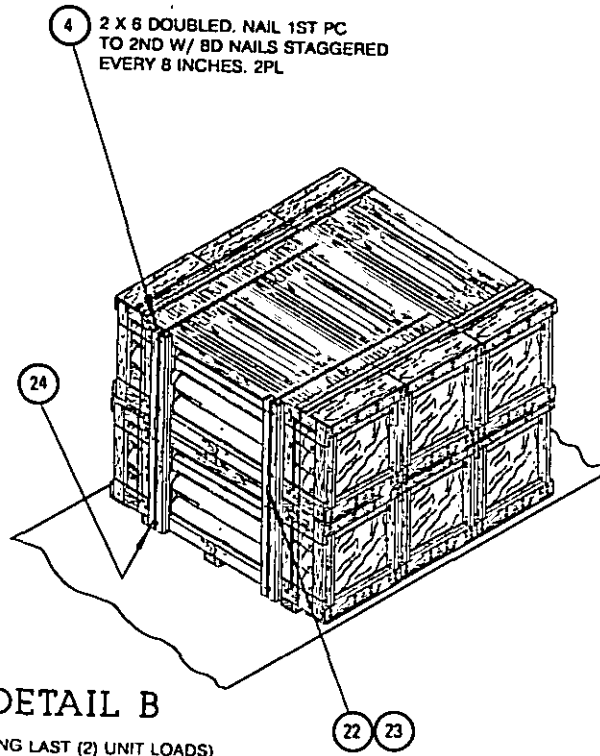
PAGE 3



**DETAIL A**  
(REAR BLOCKING ASSY)

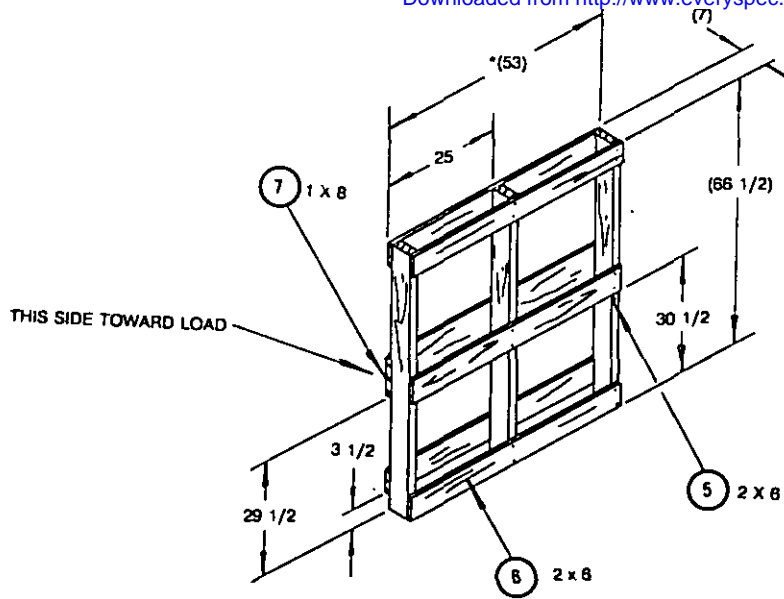
**NOTE: UNITIZING PROCEDURE**

- a. ALIGN TWO JOINED PCS OF ITEM 4, IN POSITIONS SHOWN.
- b. THREAD STRAPPING ITEM 22, OVER TWO SKID ASSY UNIT LOADS AND OVER THE TWO JOINED PCS OF ITEM 4.
- c. TENSION STRAPPING AND DOUBLE NOTCH SEALS ITEM 23.
- d. STAPLE STRAPPING ITEM 22, TO ITEM 4, WITH FOUR STAPLES ITEM 24, IN POSITIONS SHOWN.



**DETAIL B**  
(UNITIZING LAST (2) UNIT LOADS)

REQ'D	ITEM	DESCRIPTION	MAT 'L/DWG	DIMENSIONS
6	27	VERTICAL BD	WOOD	2 X 6 X 34 1/4
12	26	WIDTH BD	WOOD	2 X 6 X 23 1/2
4	25	LGTH BD	WOOD	2 X 6 X 76 1/2

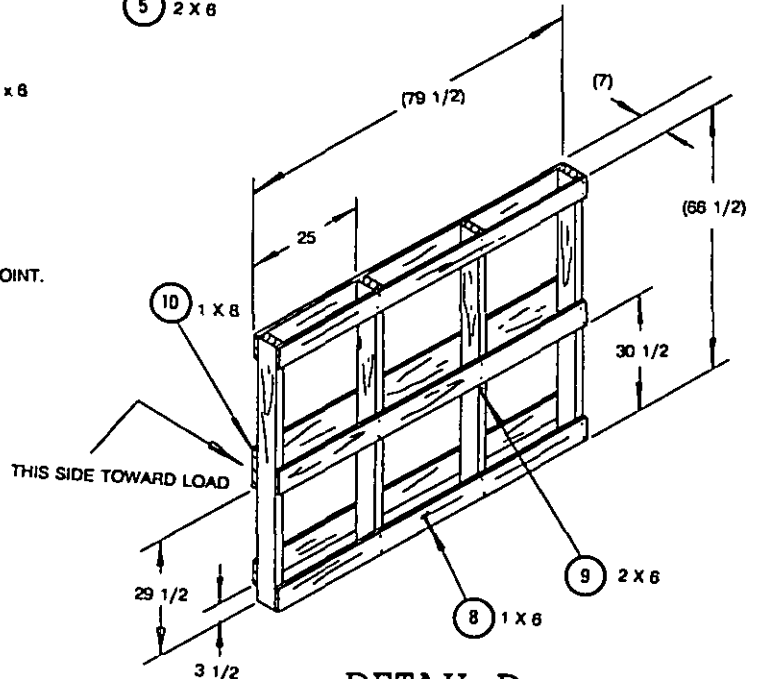


\*FOR (1) STACK WIDE OMIT CENTER POST AND CHANGE (53) DIM TO 26 1/2 FOR ITEMS 6 AND 7.

**DETAIL C**

(SIDE GATE ASSY)  
(FOR 2 WIDE STACKS)

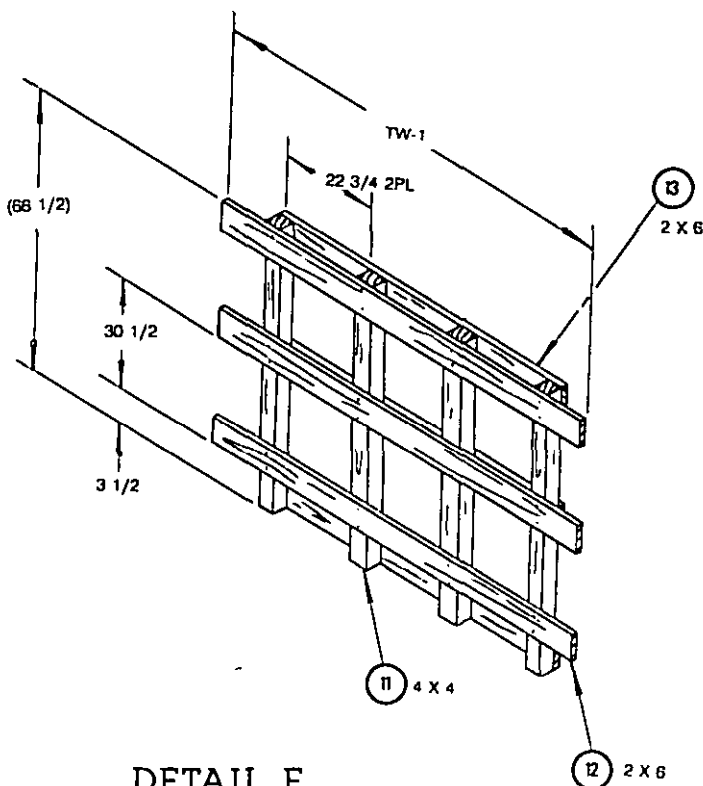
JOIN TOGETHER W/2- 6D NAILS/JOINT.



**DETAIL D**

(SIDE GATE ASSY)  
(FOR 3 WIDE STACKS)

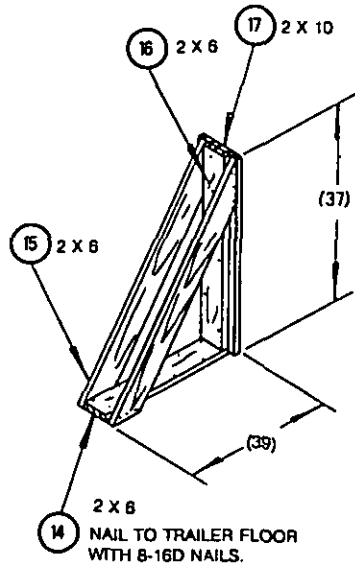
JOIN TOGETHER W/2- 6D NAILS/JOINT.



**DETAIL E**

(FWD BULK HEAD ASSY)

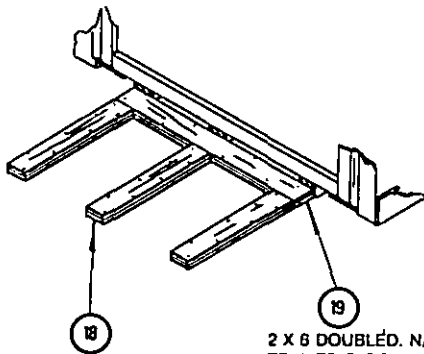
JOIN TOGETHER W/2-10D NAILS/JOINT



**DETAIL F**

(KNEE BRACE)  
2/ STACK REQ'D

JOIN TOGETHER W/6D NAILS

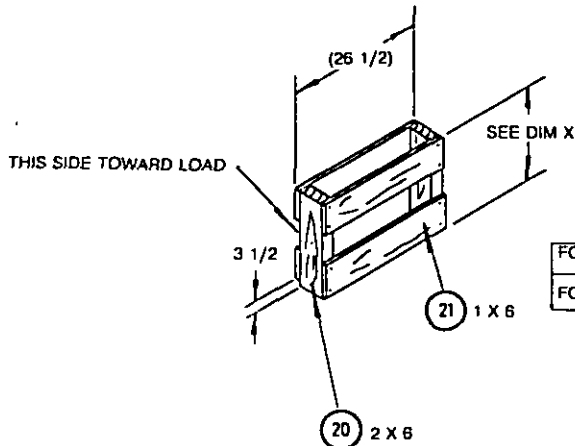


2 X 6 DOUBLED. (ALIGN WITH POST ON SKID) NAIL 1ST PC TO TRAILER FLOOR W/10-16d NAILS STAGGERED, NAIL 2ND PC TO 1ST IN LIKE MANNER.

2 X 6 DOUBLED. NAIL 1ST PC TO TRAILER FLOOR W/10-16d NAILS STAGGERED. NAIL 2ND PC TO 1ST IN LIKE MANNER.

**DETAIL G**

( REAR BLOCKING PROCEDURE )

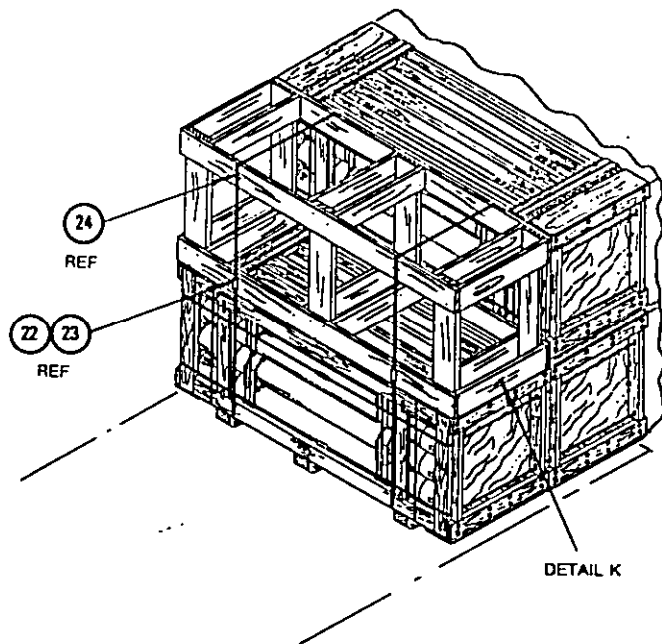


	DIM X
FOR 16 PACK UNIT LOAD	33"
FOR 8 PACK UNIT LOAD	22"

**DETAIL H**

( SIDE GATE ASSY )

JOIN TOGETHER W/ 2-16D NAILS / JOINT  
FOR 1 (8) OR (16) PACK UNIT LOAD



**UNITIZING PROCEDURE**

- a. CAREFULLY STACK (1) FILLER ASSY DETAIL K ON TOP OF (1) UNIT LOAD.
- b. THREAD STRAPPING, ITEM 22, OVER FILLER ASSY AND UNDER UNIT LOAD IN APPROX POSITIONS SHOWN.
- c. TENSION STRAPPING, ITEM 22, AND DOUBLE NOTCH SEALS, ITEM 23.
- d. STAPLE STRAPPING, ITEM 22, TO FILLER ASSY DETAIL K WITH 4 STAPLES ITEM 24 (2) ON EACH AS SHOWN.

FILLER ASSY CAN ALSO

BE USED ON AFT END IF REQUIRED.

**DETAIL J**

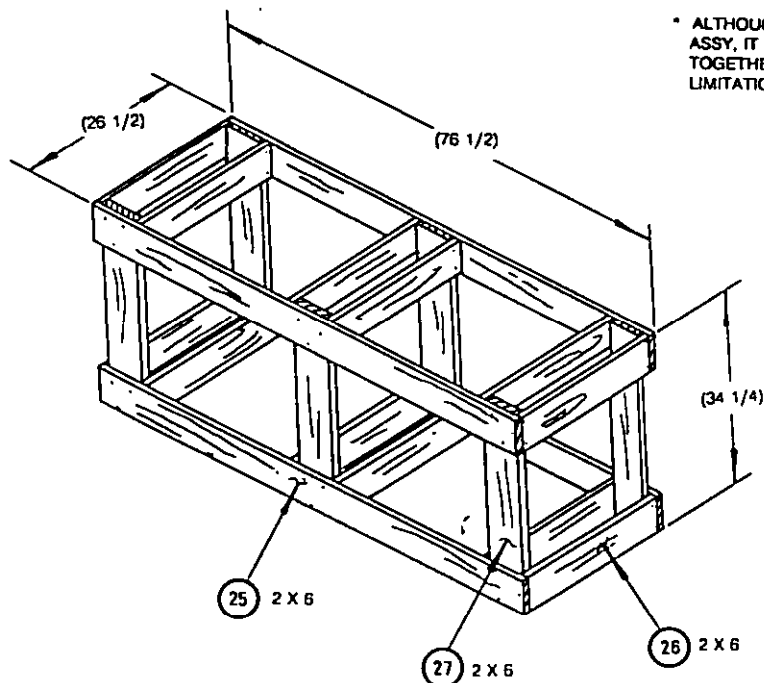
FILLER ASSY APPLICATION

USE WHEN MAX. ALLOWABLE WEIGHTS EXCEED LIMITS.

**DEUNITIZING PROCEDURE**

- a. CUT AND REMOVE STRAPPING
- b. REMOVE FILLER ASSY.

\* ALTHOUGH PICTURE DEPICTS (1) FILLER ASSY, IT MAY BE NECESSARY TO BAND TOGETHER (2) FILLER ASSY TO MEET LIMITATIONS ON AXLE WEIGHTS.



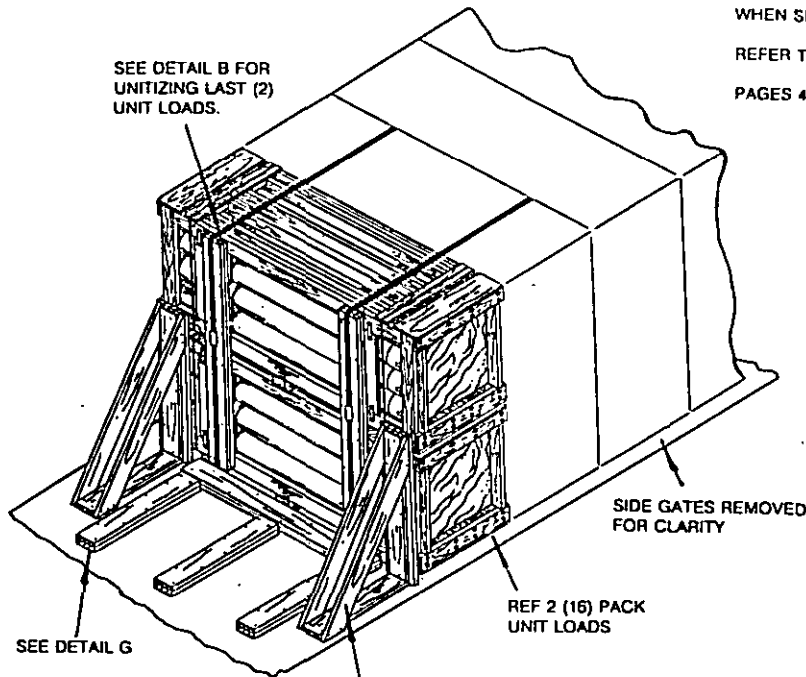
**DETAIL K**

FILLER ASSY

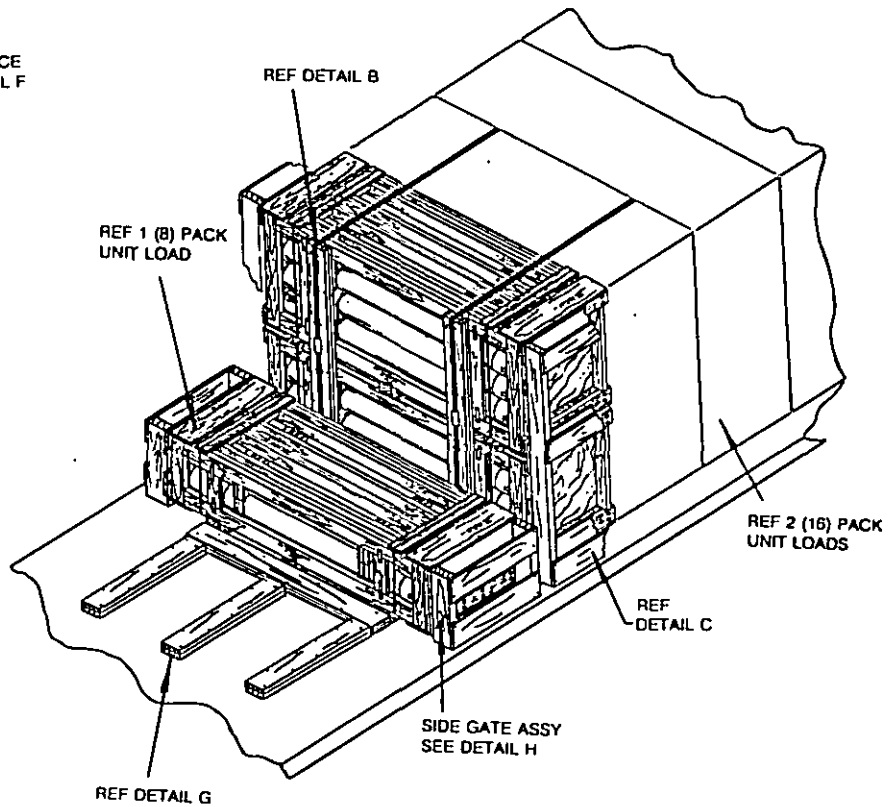
JOIN TOGETHER W/8d NAILS

### LTL SUGGESTED BLOCKING AND BRACING TECHNIQUES

NOTE:  
WHEN SHIPMENTS ARE FOR LESS THAN TRUCK LOAD,  
REFER TO THE BASIC METHODS SHOWN HERE AND ON  
PAGES 4 & 7.



TO BE USED WHEN LOAD IS MORE THAN 3FT FROM DOOR



USED WHEN STACKING SINGLE 8, OR SINGLE 16 PACK, AGAINST DOUBLE 16 PACK UNIT LOAD.