

LOADING & BRACING (TL & LTL) IN CLOSED OR OPEN TOP VAN TRAILERS OF CBU ITEMS PACKED IN THE CNU-81/E CONTAINER

INDEX

ITEM PAGE(S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS2
DETAIL OF CNU-BI/E CONTAINER3
LOADS FOR CONVENTIONAL, TYPE VAN TRAILERS:
228-UNIT LOAD IN A 40'-0" LONG TRAILER4,5
DETAILS6-8
TYPICAL LTL (BO-UNIT LOAD)9
TYPICAL LTL (II-UNT LOAD)
LOADS FOR TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES
230-UNIT LOAD IN A 40'-0" LONG TRAILER
TYPICAL LTL (33-UNIT LOAD)14

INCLUDES PROCEDURES FOR CONVENTIONAL TRAILERS AND TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES AS APPROVED BY THE BUREAU OF EXPLOSIVES, ASSOCIATION OF AMERICAN RAILROADS.

CAUTION:

PROCEDURES SHOWN HEREIN FOR MECHANICAL DEVICE EQUIPPED TRAILERS ARE ONLY APPLICABLE FOR HIGHWAY MOVEMENT; NOT FOR CONTAINER/TRAILER-ON-FLAT-CAR MOVEMENTS.

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GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO CBU ITEMS WHEN THEY ARE PACKED IN THE COUL-81/E CONTAINER, SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS CONTAINER WITH CONTENTS,
- D. THE LOADS AS SHOWN HEREIN ABE FOR CLOSED OR OPEN TOP VAN TRAILERS WHICH ARE 90" TO 93" WIDE (INSIDE DIMENSION) AND OF VARIOUS LENGTHS, AND THEY ARE LIMITED TO HIGHWAY MOVEMENTS ONLY. THE DEPICTED LOADS ARE BASED ON TRAILERS OF CONVENTIONAL TYPE OR ARE BASED ON TRAILERS WHICH ARE EQUIPPED WITH SELF-CONTAINED MECHANICAL BRACING DEVICES (CROSS MEMBERS AND WALL MEMBERS) AND APPLY TO TRAILERS HAVING WOOD, WOOD AND METAL, OR METAL FLOORS.
- E. THE OUTLOADING PROCEDURES SPECIFIED ON PAGES 4 THROUGH 10 ARE FOR CONVENTIONAL TYPE VAN TRAILERS.
- F. THE OUTLOADING PROCEDURES SPECIFIED ON PAGES 12 THROUGH 14 ARE FOR TRAILERS EQUIPPED WITH VARIOUS TYPES OF SELF-CONTAINED MECHANICAL BRACING DEVICES. HOWEVER, CROSS MEMBER ATTACHMENT FACILITIES WITHIN THESE TRAILERS MUST PROVIDE FOR THE INSTALLATION OF LOAD BLOCKING CROSS MEMBERS AT THE HEIGHTS SPECIFIED HEREIN. CAUTION: TRAILERS EQUIPPED WITH FACILITIES WHICH DO NOT MEET THE LOCATION REQUIREMENTS MUST NOT BE USED. THE HEIGHT REQUIREMENTS SPECIFIED WITHIN THIS DRAWING FOR INSTALLATION OF CROSS MEMBERS ARE IDENTICAL WITH THOSE RECOMMENDED BY THE BUREAU OF EXPLOSIVES PAMPHLET 6C, AND APPENDICES THERETO.
 - VOIDS LENGTHWISE WITHIN A LOAD MUST BE HELD TO A MINIMUM. CROSS MEMBERS MUST BE PLACED AGAINST THE LADING AS TIGHTLY AS THE HOLE SPACING IN THE CROSS MEMBER ATTACHMENT FACILITY PERMITS. EACH CROSS MEMBER WILL BE INSTALLED WITH THE ENDS ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS (AT EQUAL HEIGHTS AND AT EQUAL DISTANCES FROM THE END OF THE TRAILER).
 - CROSS MEMBERS IN EMPTY TRAILERS AND THOSE NOT USED IN LOADED TRAILERS MUST BE SECURED FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH TRAILER MUST REMAIN THEREWITH EVEN THOUGH UNUSED DURING SOME SHIPMENTS.
 - 3. A CROSS MEMBER WILL NOT BE RELIED UPON TO RETAIN MORE CONTAINERS THAN SHOWN IN THE LOAD VIEWS.
- G, THE OUTLOADING PROCEDURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIPMENT OF THE DEPICTED CONTAINERS WHEN THEY ARE LOADED WITH EMPTY ITEMS OR WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY HOMENCLATURE THAN THE ITEM DESIGNATED WITHIN THE DRAWING TITLE.
- H. GROSS WEIGHT AND AXLE DISTRIBUTION OF WEIGHT FOR A LOAD WILL BE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THE APPLICABLE LOADING REQUIREMENTS AND THE SHIPPER WILL LOAD ACCORDINGLY.
- J. NOTICE: A SHIPMENT WILL BE POSITIONED IN THE TRAILER CONSISTENT WITH STATE WEIGHT LAWS. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE TRAILER TO BE LOADED OR THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS CONTAINED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE DESIGNATED ITEM.
- K. OTHER TYPES OF LADING ITEMS MAY BE LOADED INTO TRAILERS WHICH ARE PARTIALLY LOADED WITH THE DESIGNATED ITEM, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLOATED, AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRI-TERIA SPECIFIED HEREIN.

(GENERAL NOTES CONTINUED AT THE RIGHT)

MATERIAL SPECIFICATIONS

LUMBER -----: SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-751.

NAILS ----:

COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.

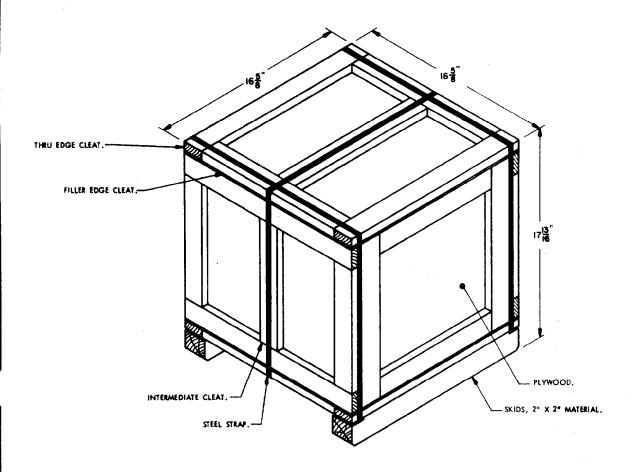
ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.

WIRE -----: FED SPEC QQ-W-461.

(GENERAL NOTES CONTINUED)

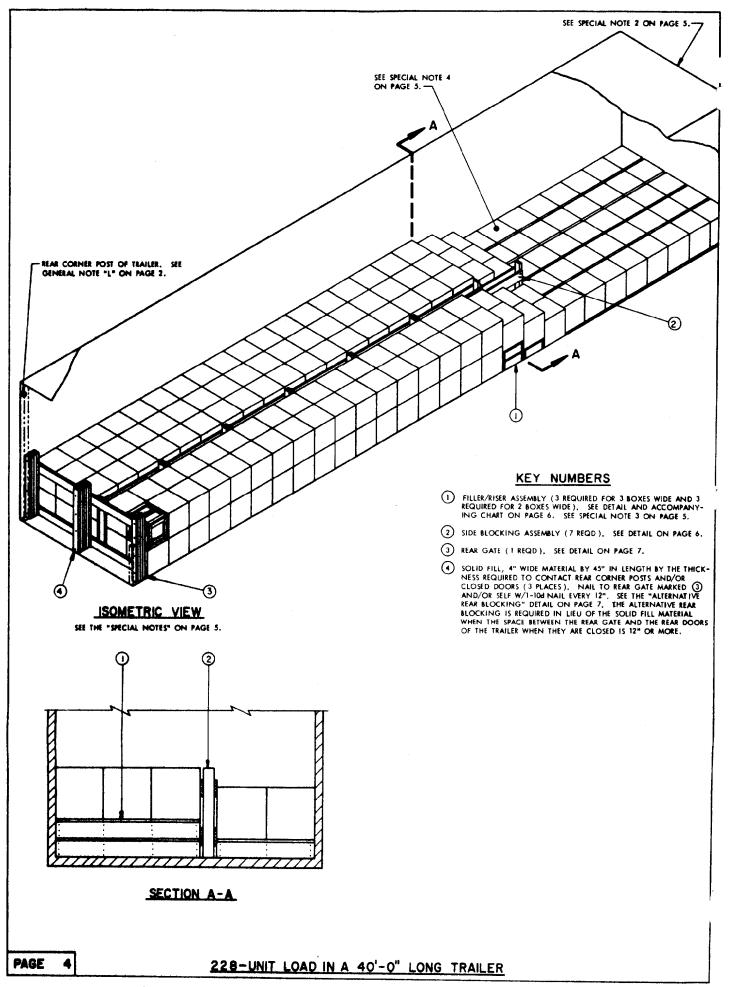
- FOR CONVENTIONAL TYPE TRAILERS NOT EQUIPPED WITH REAR CORNER POSTS, REAR BLOCKING MUST BE EXTENDED TO CONTACT THE REAR DOORS OF THE TRAILER WHEN THEY ARE CLOSED.
- M. DUNINAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-5/8" THICK BY 3-5/8" WIDE AND 4" X 4" MATERIAL IS ACTUALLY 3-5/8" THICK BY 3-5/8" WIDE.
- N. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEN DUNNAGE IS NAILED TO THE FLOOR OF THE TRANSPORTING VEHICLE, OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- O. THROUGHOUT THIS PROCEDURAL DRAWING, PORTIONS OF THE TRAILER BODY DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDE WALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- P. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTION WHICH IS IMMEDIATELY ADJACENT TO A DEPICTED OUTLOADING METHOD.

2



UNIT DETAIL

GROSS WEIGHT --- 175 POUNDS (APPROX).
CUBE ----------- 2.85 CUBIC FEET.



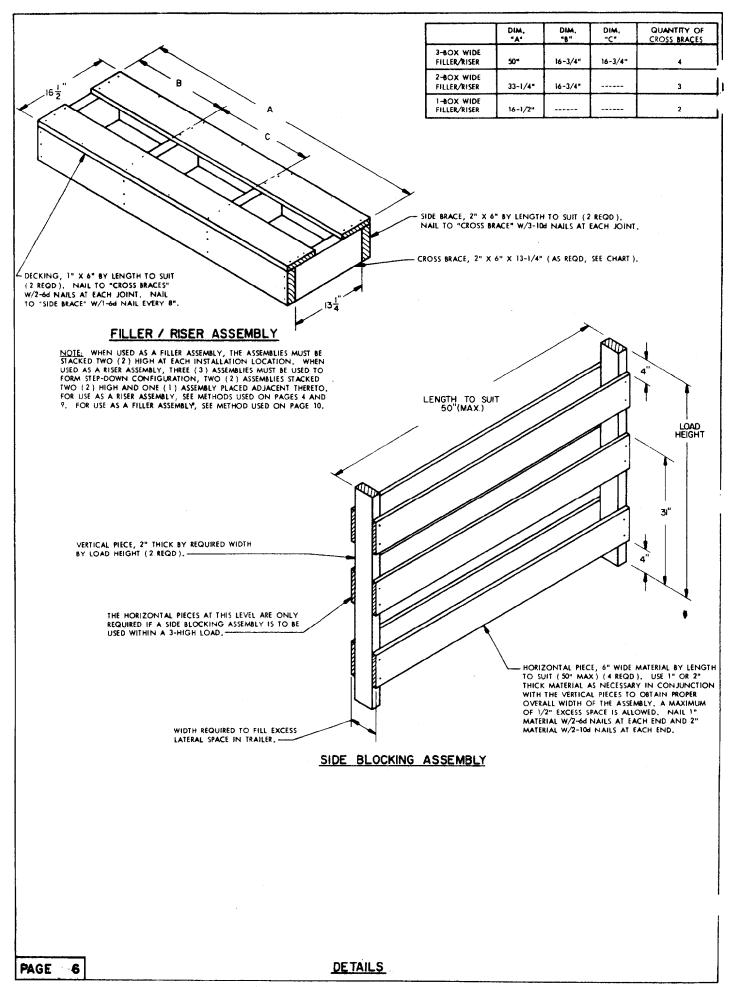
SPECIAL NOTES:

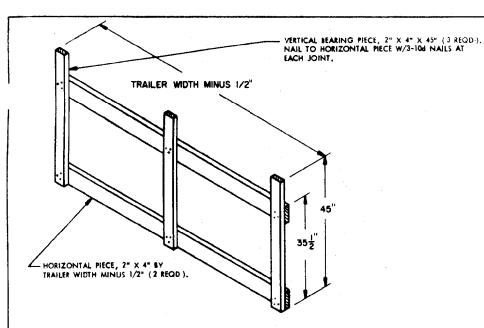
- 1. A 228-UNIT LOAD IS SHOWN IN A 40'-0" LONG TRAILER. HOWEVER, A SHORTER TRAILER MAY BE USED FOR THE SHIPMENT OF THE SAME NUMBER OF CONTAINERS BY INCREASING THE LENGTH OF THE TWO HIGH PORTION OF THE LOAD. A 33'-0" LONG TRAILER LOADED WITH TWO COMPLETE LAYERS AND USING "FORWARD BLOCKING METHOD B" WILL CONSTITUTE A 228-UNIT LOAD. TO OBTAIN A CAPACITY LOAD IN A TRAILER SHORTER THAN 33'-0", IT WILL BE NECESSARY TO PROVIDE A PARTIAL THIRD LAYER. THIS CAN BE DONE BY EMPLOYING "FILLER/RISER" ASSEMBLIES AS SHOWN WITHIN THE BASIC LOAD. NOTE: THE LOAD MUST BE PLANNED SO THAT A THREE-HIGH STACK IS NOT ADJACENT TO EITHER THE FORWARD GATE OR THE REAR GATE.
- IF THE TRAILER BEING LOADED HAS A ROUND-FRONT OR HAS ROUNDED CORNERS AT THE FORWARD END, REFER TO PAGE 8 FOR "FORWARD BLOCKING" SPECIFICATIONS WHICH MUST BE USED. THE METHOD WHICH BEST SUITS EXIST-ING CONDITIONS SHOULD BE SELECTED.
- 3. THE "FILLER/RISER ASSEMBLIES" SPECIFIED FOR THE DEPICTED LOAD SHOWS TYPICAL APPLICATION. TO ADJUST A LOAD QUANTITY, THE LENGTH OF THE "FILLER/RISER ASSEMBLIES" MAY BE ADJUSTED, AND/OR THE ASSEMBLIES MAY BE RELOCATED AS THE TRAILER LENGTH AND/OR THE NUMBER OF CONTAINERS TO BE SHIPPED VARIES.
- SIDE BLOCKING DUNNAGE ASSEMBLIES WILL NOT BE REQUIRED BETWEEN CON-TAINERS IN THE ONE-HIGH PORTION OF THE LOAD, EXCEPT FOR THOSE CONTAINERS LOCATED ON THE "FILLER/RISER ASSEMBLIES".

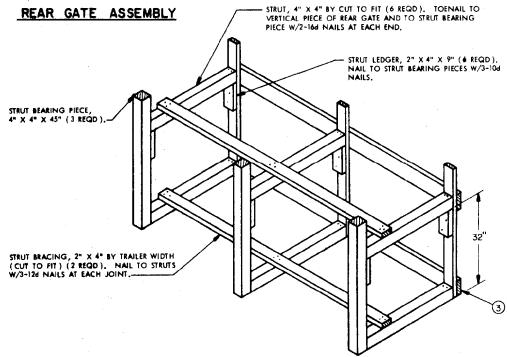
BIL	BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET		
1" X 6"	153	77		
2" X 4"	**	63		
2" × 6"	80	60		
MAILS	NO. REQD	POUNDS		
6d (2")	268	1-3/4		
10d (3")	186	3		

LOAD AS SHOWN

ITEM.	QL	ANTITY	WE	<u>IGHT</u>	(APPROX)
CONTAINER		228	 39, 900	LBS	
DUNNAGE			 555	LBS	
	TOTAL	WEIGHT	 40 455	185	-



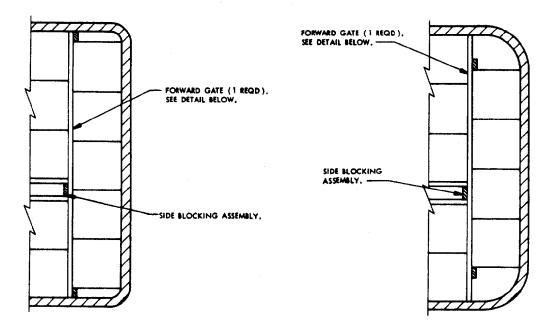




ALTERNATIVE REAR BLOCKING

THIS BLOCKING IS DESIGNED FOR USE AT THE REAR OF A 2-HIGH LOAD WHEN THE EXCESS SPACE BETWEEN THE REAR GATE AND THE REAR CORNER POSTS AND/OR CLOSED DOOR IS GREATER THAN 12".

7



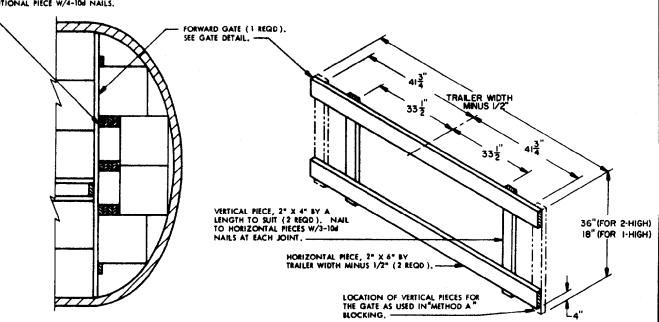
FORWARD BLOCKING - METHOD A

THIS LOADING AND BRACING IS APPLICABLE FOR A 1-HIGH OR 2-HIGH LOAD AT THE FRONT END OF A VAN TRAILER WHICH IS AT LEAST NINETY-ONE INCHES (91") IN WIDTH AND WHICH HAS ROUNDED FRONT CORNERS WITH A MAXIMUM INSIDE RADIUS OF FOUR INCHES (4"), (4-1/2" FOR A 92" WIDE OR 5" FOR A 93" WIDE TRAILER).

FORWARD BLOCKING-METHOD B

THIS LOADING AND BRACING IS APPLICABLE FOR A 1-HIGH OR 2-HIGH LOAD AT THE FRONT END OF A TRAILER OF ANY WIDTH AND WITH A IN-SIDE RADIUS NOT GREATER THAN 12" FOR A 90" WIDE TRAILER, 12-1/2" FOR A 91", 13" FOR A 92", OR 13-1/2" FOR A 93" INSIDE WIDTH.

-- SOLID FILL AT THREE PLACES, 4" WIDE MATERIAL BY A LENGTH TO SUIT AND BY THE THICKNESS REQUIRED. NAIL FIRST PIECE TO FORWARD GATE W/3-104 NAILS AT EACH END. NAIL EACH ADDITIONAL PIECE W/4-104 NAILS.



FORWARD BLOCKING-METHOD C

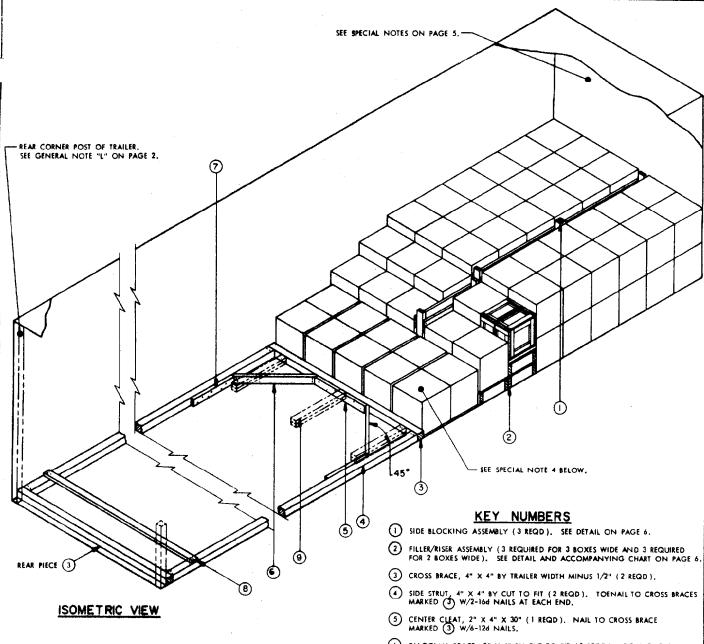
THIS LOADING AND BRACING IS APPLICABLE FOR A 1-HIGH OR 2-HIGH LOAD AT THE FORWARD END OF A TRAILER OF ANY WIDTH WHICH HAS A ROUND RRONT. THE CONTOUR OF THE TRAILER FRONT AND THE SOLID FILL AS SHOWN ARE ONLY TYPICAL. THE AMOUNT OF SOLID FILL WILL VARY ACCORDING TO THE RADIUS OF THE TRAILER FRONT,

FORWARD GATE

THIS FORWARD GATE IS REQUIRED WHEN A LOAD BEING SHIPPED IS TWO LAYERS HIGH AT THE FORWARD END AND THE TRAILER BEING USED IS EQUIPPED WITH ROUNDED CORNERS OR HAS A ROUND-FRONT.

PAGE 8

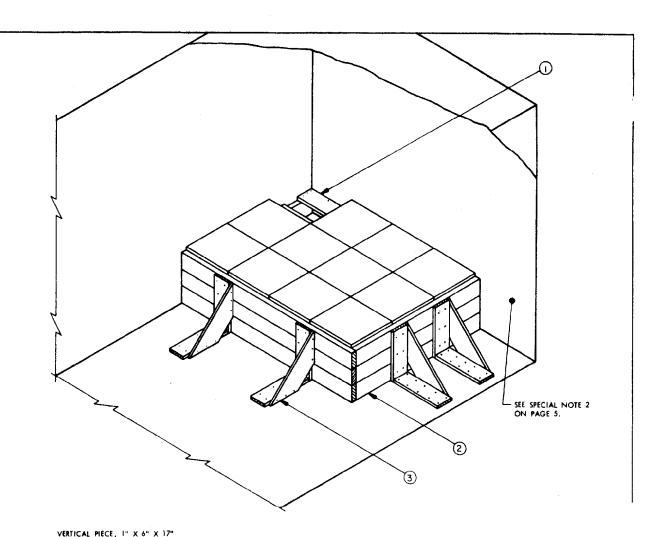
DETAILS



SPECIAL NOTES:

- THESE LTL OUTLOADING PROCEDURES ARE SHOWN DEPICTING THE USE OF "K-BRACE" AND "NAILED FLOOR LINE" BLOCKING IN A 7'-6" WIDE TRAILER. WIDER OR NARROWER TRAILERS CAN ALSO BE USED.
- 2. THE "K-BRACE" BLOCKING, SHOWN AS PIECES MARKED (3) THROUGH
 (8), 15 ADEQUATE FOR RETAINING A MAXIMUM LTL LOAD OF 24,000 POUNDS.
- 3. PIECES MARKED (P) ARE FOR USE IN A TRAILER WHICH HAS A NAIL-ABLE FLOOR AND MAY BE USED IN LIEU OF REAR PIECE MARKED (3) AND PIECES MARKED (4) THROUGH (8) WHICH APPLY TO TRAILERS HAVING NON-NAILABLE FLOORS. THREE (3) BACK-UP CLEATS, SHOWN AS PIECES MARKED (9), ARE ADEQUATE FOR RETAINING A MAXIMUM SIZE LTL LOAD OF 15,000 POUNDS.
- 4. SIDE BLOCKING DUNNAGE ASSEMBLIES WILL NOT BE REQUIRED BETWEEN CONTAINERS IN THE ONE-HIGH PORTION OF THE LOAD, EXCEPT FOR THOSE CONTAINERS LOCATED ON THE "FILLER/RISER ASSEMBLIES". ALSO, CONTAINERS ADJACENT TO THE "CROSS BRACE", PIECE MARKED (3), ARE LIMITED TO ONE-CONTAINER HIGH.

- (a) DIAGONAL BRACE, 2" X 4" BY CUT TO FIT (2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT 45° ANGLE AS SHOWN AND NAIL TO ADJACENT CROSS BRACE MARKED (3) AND SIDE STRUT MARKED (4) W/2-16d NAILS AT EACH END.
- 7 SIDE CLEAT, 2" X 4" X 24" (2 REQD). NAIL TO SIDE STRUT MARKED 4 W/6-128 NAILS.
- (8) STRUT BRACING, 2" X 4" BY TRAILER WIDTH (CUT TO FIT) (MINIMUM OF 1 REQD). INSTALL ONE (1) NEAR REAR END OF STRUTS MARKED (4) AS SHOWN. ONE (1) ADDITIONAL PIECE IS REQUIRED FOR EVERY 7"-0" OF STRUT LENGTH. NAIL TO STRUTS MARKED (4) W/3-12d NAILS AT EACH END.
- BACK-UP CLEAT, 2" X 4" X 30" (DOUBLED) (3 REQD). NAIL FIRST PIECE TO TRAILER FLOOR W/7-12d NAILS. NAIL SECOND PIECE TO FIRST IN A LIKE MANNER. SEE SPECIAL NOTE 3.



VERTICAL PIECE, I" X 6" X 17" (1 REQD). NAIL TO THE BACK-UP CLEAT W/4-8d NAILS. ANGLE BRACE, I" X 6" BY CUT TO FIT (1 REQD). NAIL TO THE VERTICAL PIECE AND TO THE BACK-UP CLEAT W/3-M NAILS AT EACH END. BACK-UP CLEAT, 1" X 16" X 17" (1 REQD). 17"

ISOMETRIC VIEW

WOOD OR WOOD AND METAL FLOOR TRAILER ONLY.

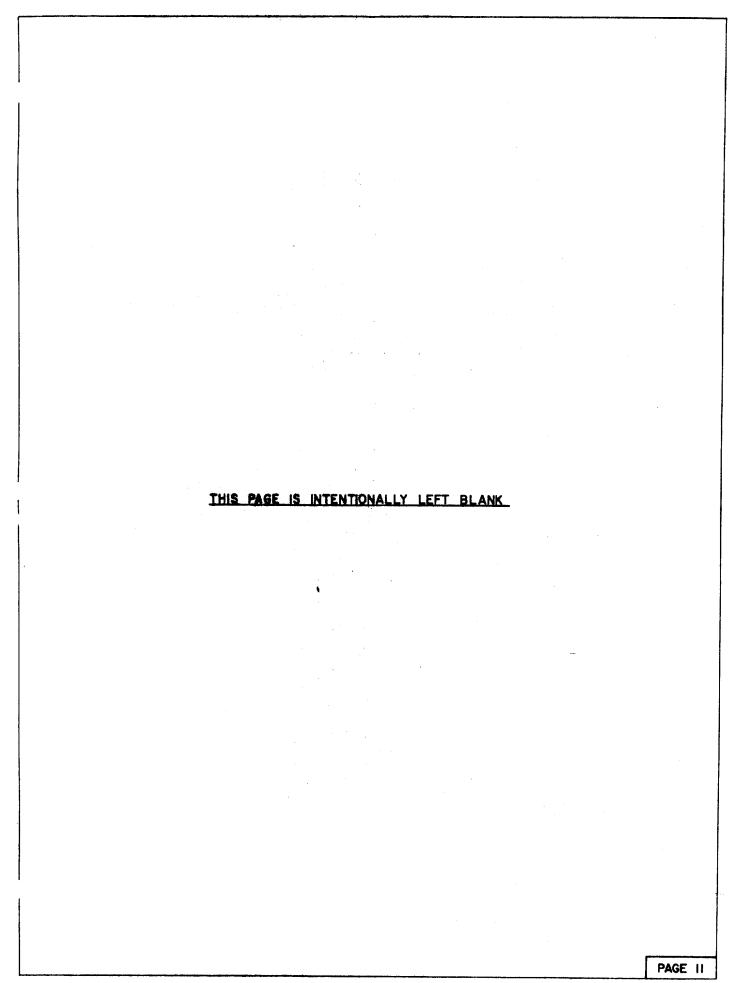
KEY NUMBERS

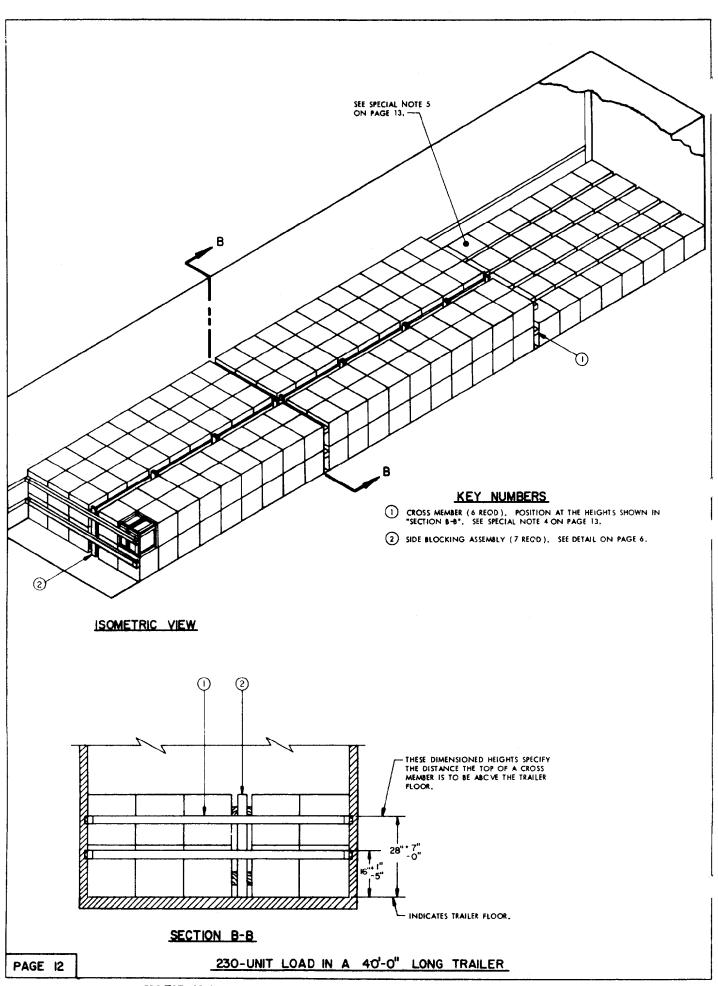
- FILLER/RISER ASSEMBLY (2 REQD). SEE "FILLER/RISER ASSEMBLY" ON PAGE 6.
- (2) LOAD BEARING HORIZONTAL, 2" THICK MATERIAL BY LENGTH TO SUIT (AS REQD).
- (1) LTL BRACE (4 REQD). SEE DETAIL ON THIS PAGE. NAIL TO 2" THICK MATERIAL MARKED (2) W/2-6d NAILS AT EACH JOINT, NAIL TO TRAILER FLOOR W/10-6d NAILS.

LTL BRACE

NOTE:

EACH BRACE IS APPLIED FOR LONGITUDINAL OR LATERAL BRACING WILL SUPPORT 2,000 POUNDS OF LOADING. A MINIMUM OF TWO (2) BRACES MUST BE USED IN THEIR RESPECTIVE DIRECTION. ALSO, NOT MORE THAN FOUR (4) CONTAINERS IN LENGTH SHALL BE RETAINED WITH TWO (2) BRACÉS.





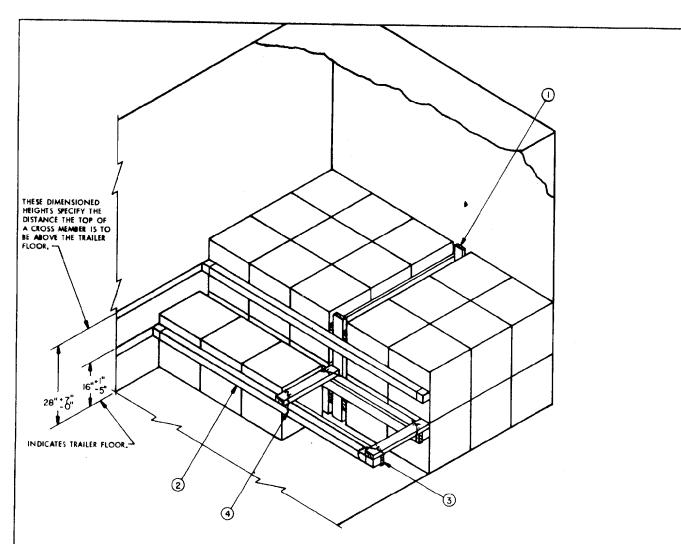
SPECIAL NOTES:

- DO NOT EXCEED ELEVEN (11) UNITS IN LENGTH BETWEEN MECHANICAL CROSS MEMBERS. SEE SPECIAL NOTE 4 BELOW.
- 2. A 230-UNIT LOAD IS SHOWN IN A 40'-0" LONG TRAILER, A SHORTER TRAILER MAY BE USED FOR THE SHIPMENT OF THE SAME NUMBER OF CONTAINERS BY INCREASING THE LENGTH OF THE TWO HIGH PORTION OF THE LOAD AND USING A THREE-HIGH STACK AS REQUIRED TO ASSURE MAXIMUM LOAD WEIGHT, CONSISTENT WITH VARIOUS STATE WEIGHT LOAD LAWS, IF CONTAINERS ARE STACKED THREE (3) HIGH, ADDITIONAL CROSS MEMBERS WILL BE POSITIONED AT THE 48" LOCATION FOR LONGITUDINAL BLOCKING.
- 3. A SQUARE-FRONT TRAILER IS SHOWN IN THE LOAD VIEW. IF THE TRAILER HAS ROUNDED-CORNERS AT THE FORWARD END, ONE (1) ADDITIONAL CROSS MEMBER WILL BE POSITIONED AT THE FRONT OF THE TRAILER AT THE 16" LOCATION AS SPECIFIED IN "SECTION 8-8" ON PAGE 12. NOTE: A ROUNDED-CORNER TRAILER MUST HAVE A MECHANICAL LOAD BLOCKING SYSTEM WHICH IS AT LEAST 38'-6" LONG AS MEASURED FROM THE FRONT OF THE SYSTEM TO THE REAR END OF THE SYSTEM, IF THE LOAD 15 TO BE BUILT AS SHOWN. IF A TRAILER WITH A MECHANICAL LOAD BLOCK-ING SYSTEM WHICH IS LESS THAN 38'-4" LONG IS USED, SOME CONTAINERS OF THE ONE CONTAINER HIGH PORTION OF THE LOAD MAY BE STACKED TWO CONTAINERS HIGH. ADDITIONAL CROSS MEMBERS WILL BE REQUIRED. ALSO, ADDITIONAL SIDE BLOCKING ASSEMBLIES WILL BE REQUIRED.
- A CROSS MEMBER WHEN USED FOR THE LOAD AS DEPICTED ON PAGE 12 WILL BE USED IN SUCH A MANNER THAT IT WILL NOT BE RELIED ON TO RETAIN MORE THAN 10,000 POUNDS OF LADING ON EITHER SIDE.
- 5. SIDE BLOCKING DUNNAGE ASSEMBLIES WILL NOT BE REQUIRED BETWEEN CONTAINERS IN THE ONE-HIGH PORTION OF THE LOAD.

BILL OF MATERIAL				
LINEAR FEET	BOARD FEET			
56	28			
42	28			
50	50			
NO, REQD	POUNDS			
- 48	1/2			
44	3/4			
	56 42 50 NO, REQD			

LOAD AS SHOWN

PAGE 13

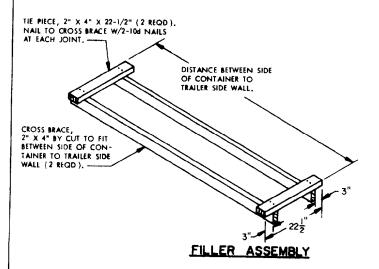


ISOMETRIC VIEW

KEY NUMBERS

- SIDE BLOCKING ASSEMBLY (1 REQD). SEE DETAIL ON PAGE 6.
- 2 CROSS MEMBER (3 REQD). POSITION AT HEIGHTS SHOWN. SEE SPECIAL
- NOTE 4 BELOW.

 3 FILLER ASSEMBLY (1 REQD). SEE DETAIL TO THE LEFT ON THIS PAGE.
- 4 TIE WIRE, NO. B GAGE BLACK ANNEALED WIRE 30" LONG (4 REQD). IN-STALL TO FORM A COMPLETE LOOP AROUND THE CROSS BRACE AND TIE PIECE OF THE FILLER ASSEMBLY, AND THE ADJACENT CROSS MEMBER MARKED ②. BRING THE ENDS TOGETHER AND TWIST TAUT. SEE SPECIAL NOTE 3 BELOW.



SPECIAL NOTES:

- A 33-UNIT LOAD IS SHOWN IN A TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES.
- THE FILLER ASSEMBLY MAY BE USED FOR A 31, 32 OR 34-UNIT LOAD BY ADJUSTING THE LENGTH OF THE CROSS BRACE.
- FOUR (4) PIECES OF NO. 14 GAGE WIRE MAY BE USED IN LIEU OF THE NO. 8
 GAGE WIRE. WHEN USING NO. 14 GAGE WIRE, INSTALL TWO (2) COMPLETE
 LOOPS AROUND THE CROSS MEMBER AND THE FILLER ASSEMBLY AT EACH LOCATION.
- 4. A CROSS MEMBER WHEN USED FOR THE LOAD AS DEPICTED ABOVE WILL BE USED IN SUCH A MANNER THAT IT WILL NOT BE RELIED ON TO RETAIN MORE THAN 10,000 POUNDS OF LADING ON EITHER SIDE.

PAGE 14

TYPICAL LTL (33-UNIT LOAD) (MECHANICAL)