APPROVED BY
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SUPERVISOR, MILITARY & INTERMODAL SERVICES
DATE 2/27/79

STINGER

FILLING TYPE I (HALF SIZE) AND TYPE 2 (STANDARD) CARGO TRANSPORTER⊕ WITH THE COMPLETE ROUND PACKED IN WIREBOUND AND/OR ALUMINUM CONTAINER

INDEX

⊕ CONEX CONTAINER

DO NOT SCALE

REVISIONS			

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U.S. ARMY DARCOM DRAWING

MARCH 1979

CLASS	DIVISION	DRAWING	FILE
19	48	5982	GM 16SRI

PROJECT GM 693-76

GENERAL NOTES

A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5).

B. THE OUTLOADING PROCEDURES SPECIFIED IN THIS DRAWING ARE APPLICABLE TO THE STINGER GUIDED MISSILE PACKED IN WIREBOUND CONTAINER AND/OR ALUMINUM CONTAINER. SUBSEQUENT REFERENCE TO CONTAINER MEANS WIREBOUND CONTAINER AND/OR ALUMINUM CONTAINER WITH CONTENTS.

C. THE FILLING AND BLOCKING PROCEDURES SHOWN IN THIS DRAWING ARE BASED ON TYPE 1 (HALF SIZE) AND TYPE 2 (STANDARD) CARGO TRANSPORTER.

D. FOR DETAILS OF THE TYPE 1 (HALF SIZE) CARGO TRANSPORTER, SEE MILITARY SPECIFICATION MIL-B-21560.

INSIDE DIMENSIONS - 46-5/8" LONG X 71-1/8" WIDE X 72-1/4" HIGH.

E. FOR DETAILS OF THE TYPE 2 (STANDARD) CARGO TRANSPORTER, SEE MILITARY SPECIFICATION MIL-B-11886H.

INSIDE DIMENSIONS - 97-5/8" LONG X 71-1/8" WIDE X 72-1/4" HIGH.

F. WHEN SHIPPING THE TYPE 1 (HALF SIZE) OR TYPE 2 (STANDARD) CARGO TRANSPORTER BY WATER, THE LADING WEIGHT, INCLUDING DUNNAGE, MUST NOT EXCEED 7,800 POUNDS. SEE SECTION 146.29-90, COAST GUARD REGULATION CG 108.

G. THE DOORS ON THE CARGO TRANSPORTERS SHALL BE SEALED IN ACCORDANCE WITH PARAGRAPH 5-3 OF AR 55-1.

H. FOR DETAILS OF THE WIREBOUND CONTAINER, SEE US ARMY MISSILE COMMAND DRAWING NO. 11509503 AND "CONTAINER" DETAIL ON PAGE 3.

CONTAINER DIMENSIONS -- 67-1/4" LONG X 13-1/8" WIDE X 10-1/2" HIGH (APPROX).
GROSS WEIGHT ---------- 77 POUNDS (APPROX).
CUBE ---------- 5.4 CUBIC FEET.

J. FOR DETAILS OF THE ALUMINUM CONTAINER, SEE US ARMY MISSILE COMMAND DRAWING NO. 11486952 AND "CONTAINER" DETAIL ON PAGE 3.

CONTAINER DIMENSIONS -- 65-9/16" LONG X 13" WIDE X 13-3/8" HIGH (APPROX).
GROSS WEIGHT ---------- 85-3/4 POUNDS (APPROX).
CUBE ---------- 6.6 CUBIC FEET.

K. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 4" IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.

L. THE APPROVED METHODS SPECIFIED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE CONTAINERS WITHIN THE CARGO TRANSPORTER.

M. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED 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.

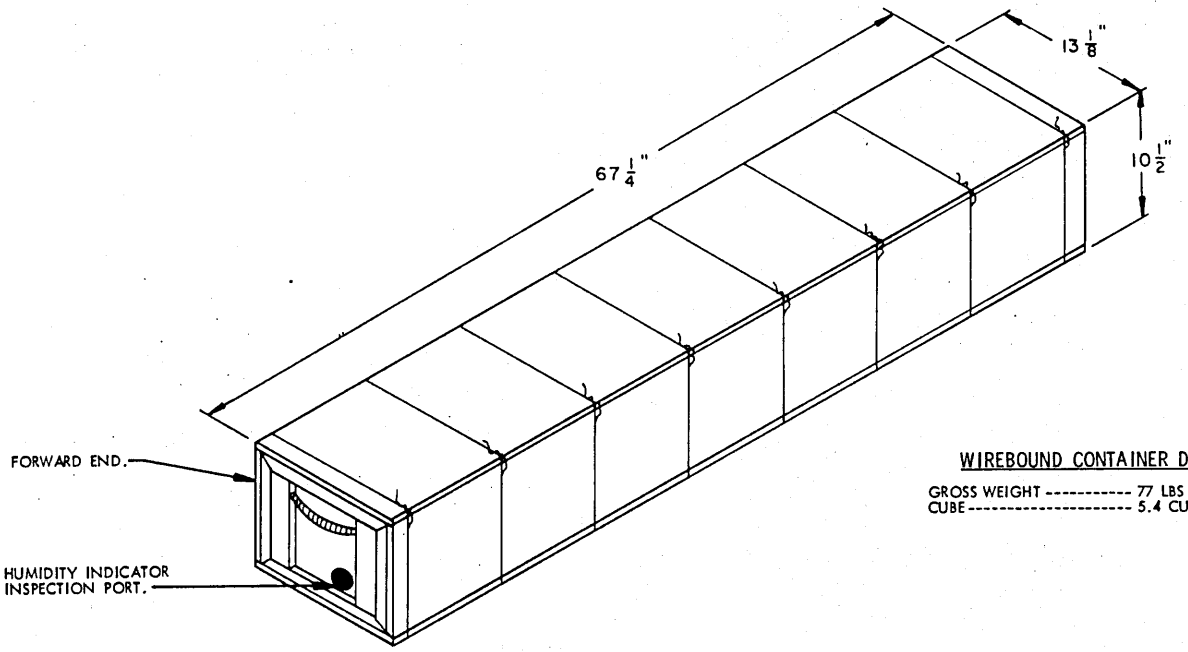
N. PORTIONS OF THE CARGO TRANSPORTER DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE SIDEWALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.

O. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED LOADING METHODS.

MATERIAL SPECIFICATIONS

LUMBER ---------- : SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-791.

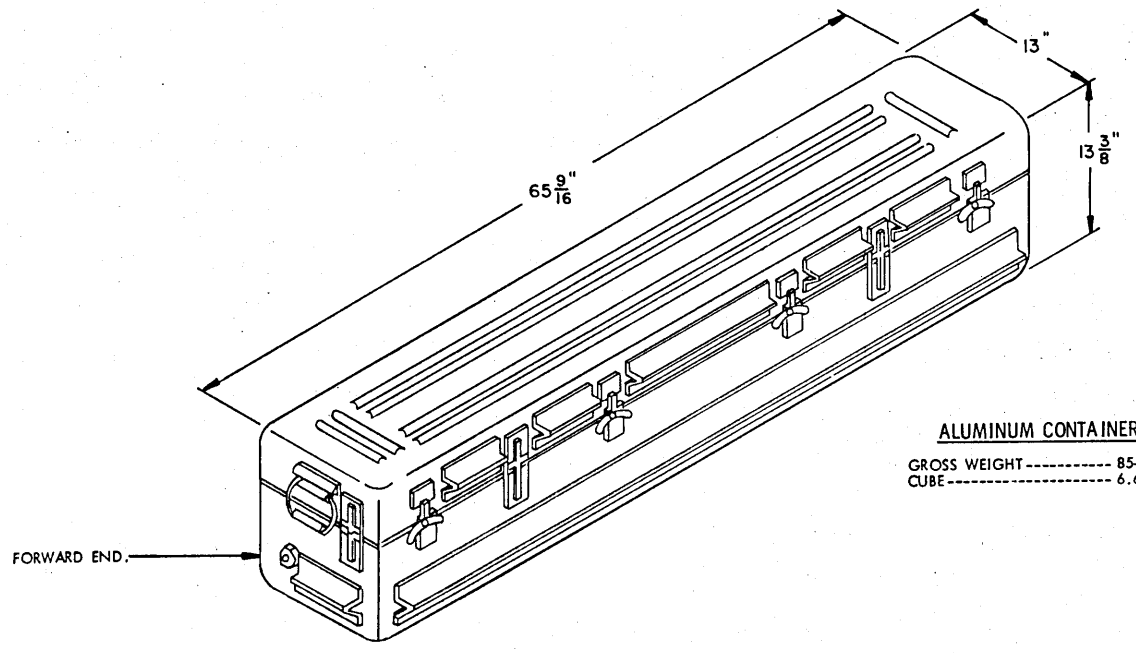
NAILS ---------- : FED SPEC FF-N-105, COMMON.



WIREBOUND CONTAINER DATA

GROSS WEIGHT ---------- 77 LBS (APPROX)
CUBE ---------- 5.4 CU FT (APPROX)

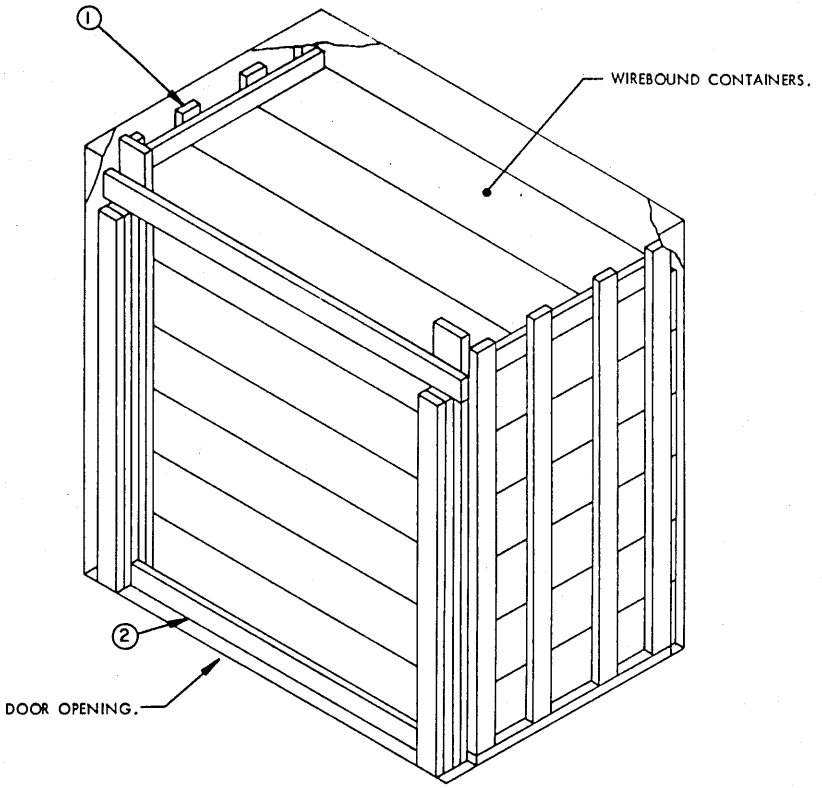
WIREBOUND CONTAINER



ALUMINUM CONTAINER DATA

GROSS WEIGHT ---------- 85-3/4 LBS (APPROX)
CUBE ---------- 6.6 CU FT (APPROX)

ALUMINUM CONTAINER

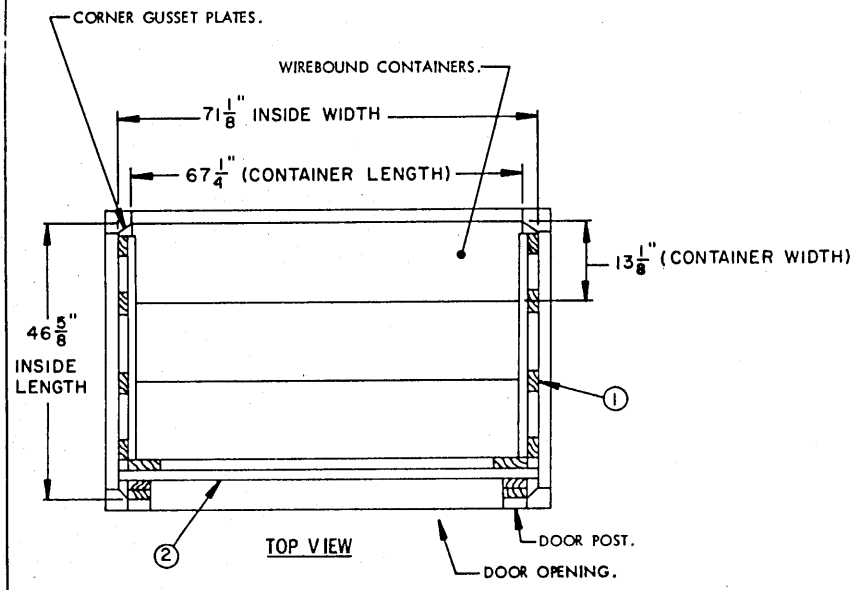


ISOMETRIC VIEW

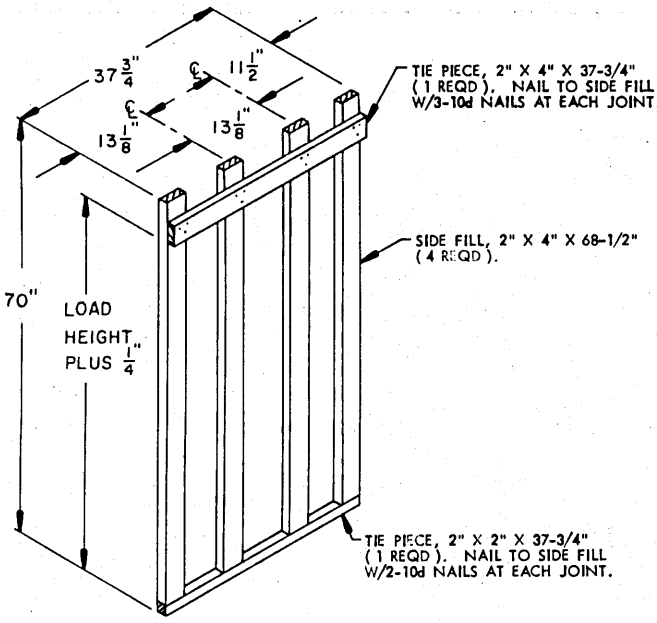
KEY NUMBERS

(1) SIDE BLOCKING ASSEMBLY A (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 5.

(2) DOORWAY BLOCKING ASSEMBLY A (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 5.

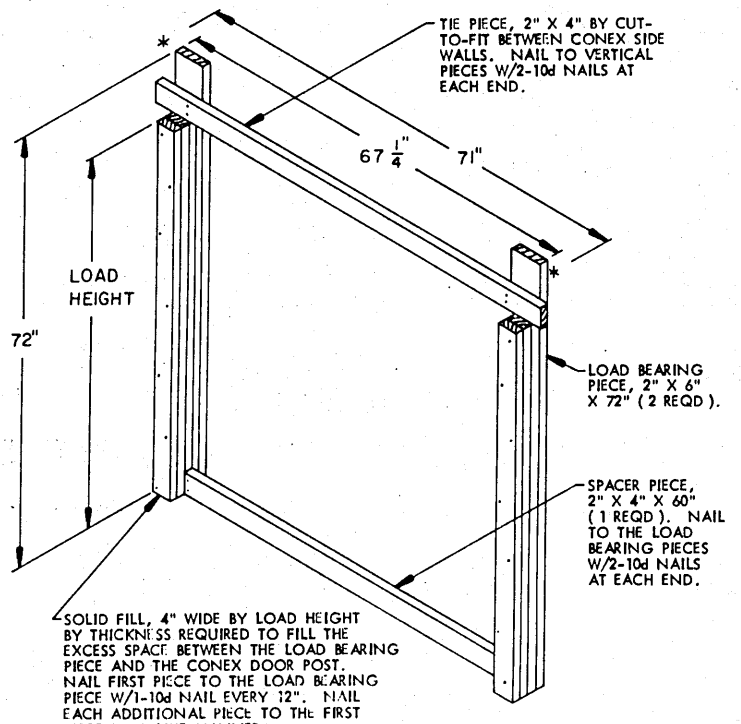


18 WIREBOUND CONTAINERS IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER



SIDE BLOCKING ASSEMBLY A

(SEE SPECIAL NOTE 4 ON THIS PAGE)



DOORWAY BLOCKING ASSEMBLY A

(SEE SPECIAL NOTE 5 ON THIS PAGE)

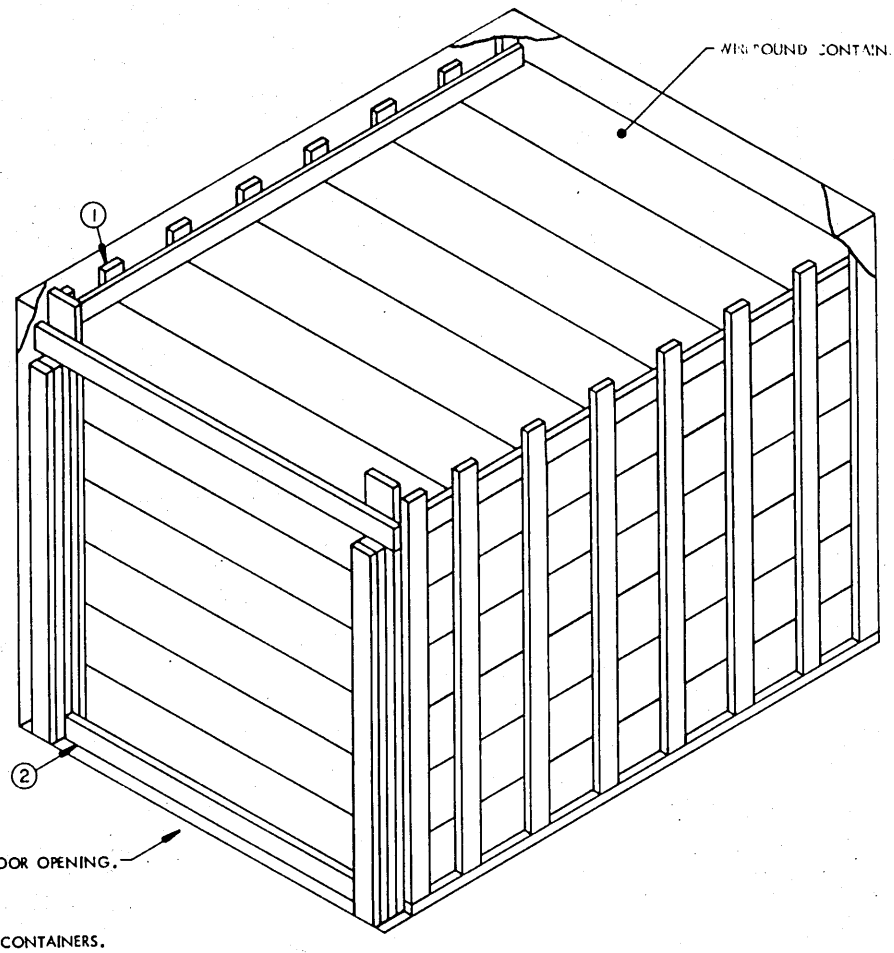
SPECIAL NOTES:

1. A FULL CONTAINER LOAD OF 18 WIREBOUND CONTAINERS IS SHOWN IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER WHICH HAS INSIDE DIMENSIONS OF 46-5/8" LONG BY 71-1/8" WIDE BY 72-1/4" HIGH.
2. IF IT IS NECESSARY TO SHIP A PARTIAL LOAD OF WIREBOUND CONTAINERS, SEE THE PROCEDURES ON PAGES 8 AND 9.
3. A FULL-CONTAINER-LOAD-MINUS-ONE WIREBOUND CONTAINER (17 WIREBOUND CONTAINERS) MAY BE BLOCKED AND BRACED AS SHOWN ON PAGE 4 BY SUBSTITUTING A "FILLER ASSEMBLY A", AS SHOWN ON PAGE 9, IN LIEU OF THE OMITTED WIREBOUND CONTAINER.
4. THE "SIDE BLOCKING ASSEMBLY A" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE WIREBOUND CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER. SEE THE "TOP VIEW" ON PAGE 4.
5. THE "DOORWAY BLOCKING ASSEMBLY A" MUST BE FABRICATED IN PLACE.
   - A. POSITION A 2" X 6" X 72" LOAD BEARING PIECE ON END AGAINST THE WIREBOUND CONTAINERS.
   - B. POSITION THE FIRST PIECE OF 2" X 4" BY LOAD HEIGHT SOLID FILL TO ALIGN WITH AN EDGE OF THE 2" X 6" X 72" LOAD BEARING PIECE AND NAIL TO THE LOAD BEARING PIECE W/1-10d NAIL EVERY 12".
   - C. NAIL EACH ADDITIONAL PIECE OF SOLID FILL MATERIAL TO THE FIRST PIECE W/1-10d NAIL EVERY 12".
   - D. SLIDE THE PARTIAL ASSEMBLY INTO POSITION BEHIND THE DOOR POST AND IN LINE WITH THE END OF THE WIREBOUND CONTAINER. REPEAT THIS PROCEDURE FOR THE OPPOSITE SIDE OF THE LOAD. SEE THE "TOP VIEW" ON PAGE 4.
   - E. POSITION THE 2" X 4" X 60" SPACER PIECE AND NAIL TO THE LOAD BEARING PIECES W/2-10d NAILS AT EACH END.
   - F. POSITION THE 2" X 4" TIE PIECE ACROSS THE TOP OF THE SOLID FILL PIECES AND NAIL TO THE LOAD BEARING PIECES W/2-10d NAILS AT EACH JOINT.

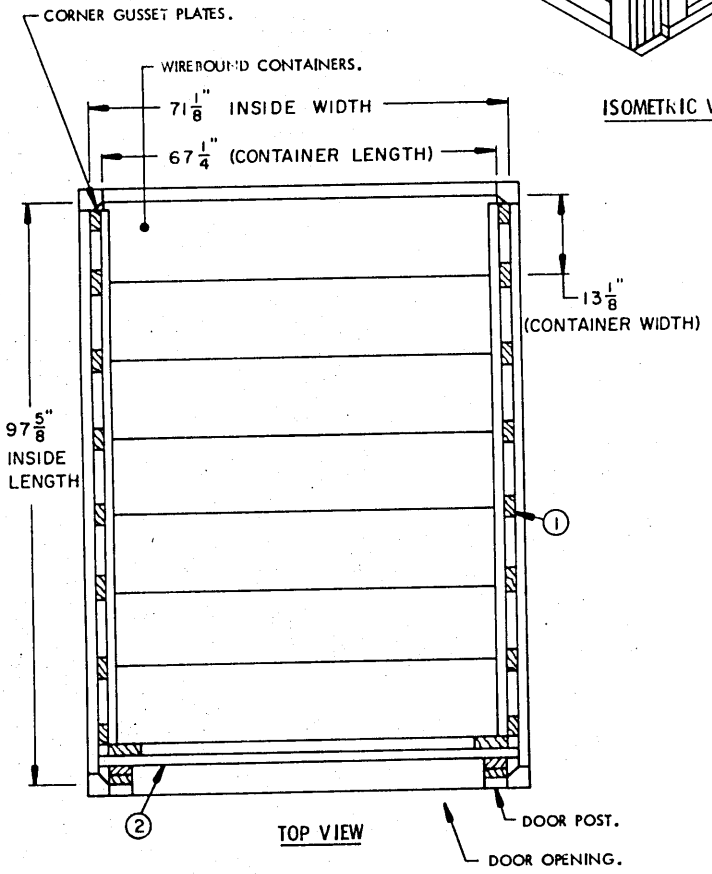
BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 2" 2" X 4" 2" X 6"	6.33 94.37 12.00	2.11 62.91 12.00
NAILS	NO. REQD	POUNDS
10d (3")	90	1.38

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
WIREBOUND CONTAINER	--- 18	1,386 LBS
DUNNAGE		156 LBS
TOTAL WEIGHT		1,542 LBS



ISOMETRIC VIEW



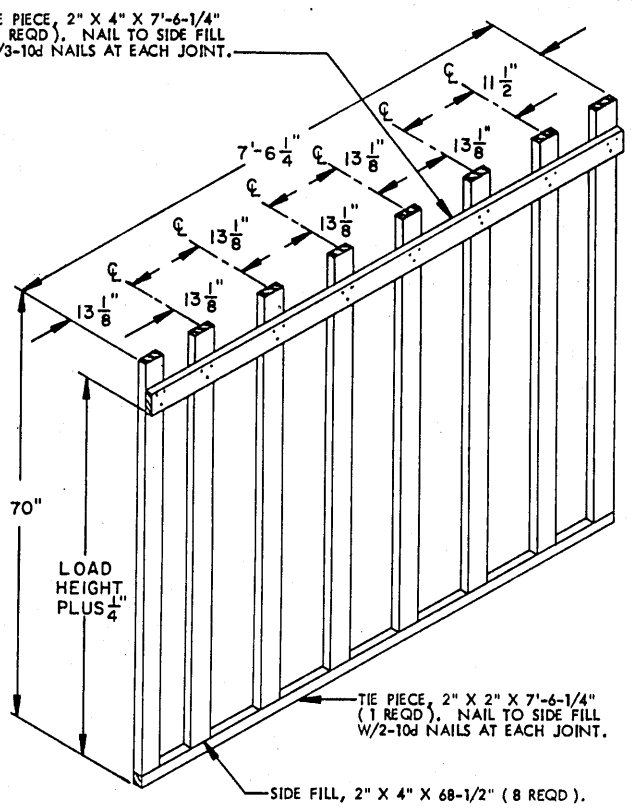
TOP VIEW

KEY NUMBERS

(1) SIDE BLOCKING ASSEMBLY B (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 7.

(2) DOORWAY BLOCKING ASSEMBLY A (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 5.

42 WIREBOUND CONTAINERS IN A TYPE 2 (STANDARD SIZE) CARGO TRANSPORTER



SIDE BLOCKING ASSEMBLY B

(SEE SPECIAL NOTE 4 ON THIS PAGE)

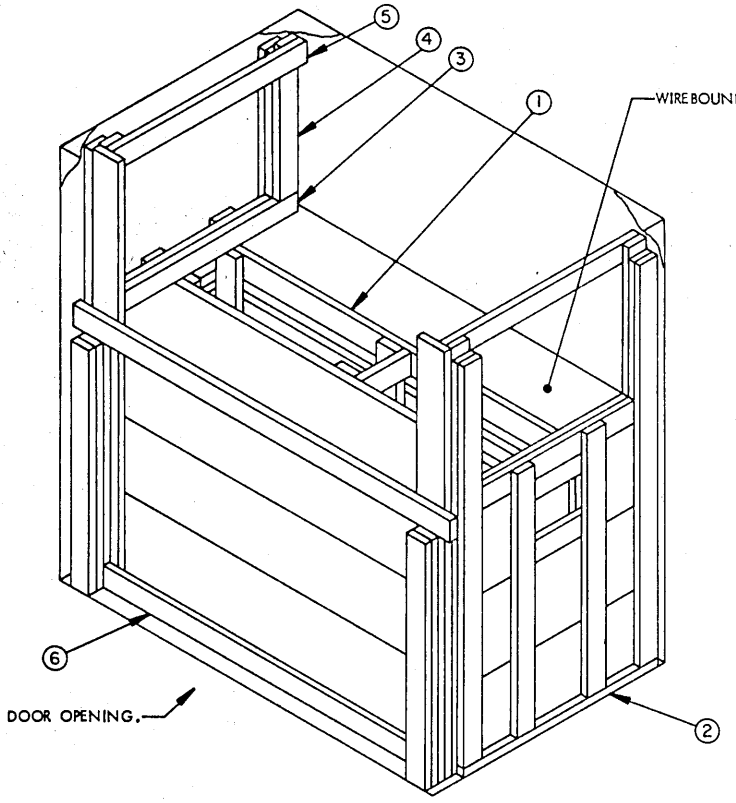
SPECIAL NOTES:

1. A FULL CONTAINER LOAD OF 42 WIREBOUND CONTAINERS IS SHOWN IN A TYPE 2 (STANDARD) CARGO TRANSPORTER.
2. IF IT IS NECESSARY TO SHIP A PARTIAL LOAD OF WIREBOUND CONTAINERS, SEE THE PROCEDURES ON PAGES 8 AND 9 AND THE "MODIFIED SIDE BLOCKING ASSEMBLY B" DETAIL ON PAGE 16.
3. A FULL-CONTAINER-LOAD-MINUS-ONE WIREBOUND CONTAINER (41 WIREBOUND CONTAINERS) MAY BE BLOCKED AND BRACED AS SHOWN ON PAGE 6 BY SUBSTITUTING A "FILLER ASSEMBLY A", AS SHOWN ON PAGE 9, IN LIEU OF THE OMITTED WIREBOUND CONTAINER.
4. THE "SIDE BLOCKING ASSEMBLY B" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE WIREBOUND CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	10.50	3.50
2" X 2"	15.08	5.03
2" X 4"	138.33	92.22
2" X 6"	12.00	12.00
NAILS	NO. REQD	POUNDS
6d (2")	14	.08
10d (3")	116	1.78

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
WIREBOUND CONTAINER	42	3,234 LBS
DUNNAGE		228 LBS
TOTAL WEIGHT		3,462 LBS



ISOMETRIC VIEW

KEY NUMBERS

(1) FILLER ASSEMBLY (1 REQD). SEE THE "FILLER ASSEMBLY A" DETAIL AND SPECIAL NOTE 3 ON PAGE 9.

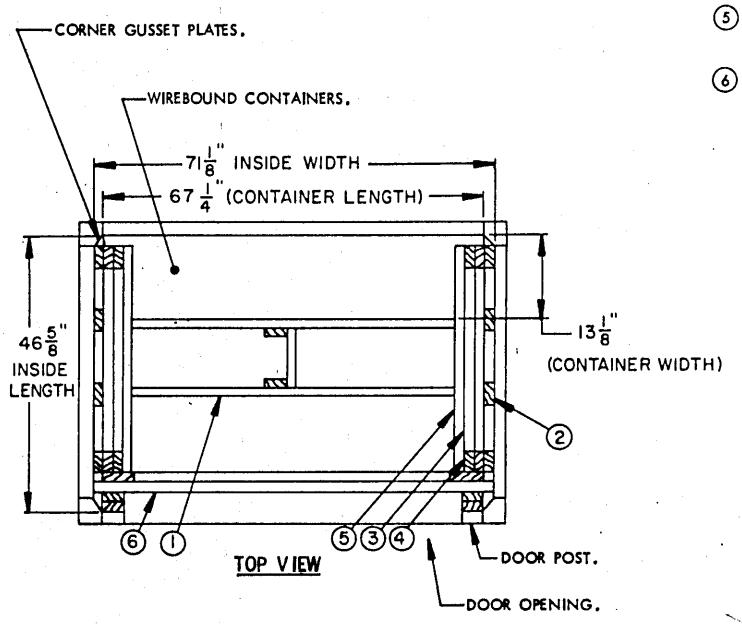
(2) SIDE BLOCKING ASSEMBLY C (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 9.

(3) HOLD-DOWN, 2" X 4" X 37-3/4" (2 REQD). NAIL TO THE "SIDE BLOCKING ASSEMBLY C" W/5-10d NAILS.

(4) HOLD-DOWN CLEAT, 2" X 4" BY CUT-TO-FIT BETWEEN PIECE MARKED (3) AND THE ROOF OF THE CARGO TRANSPORTER (4 REQD). NAIL TO THE "SIDE BLOCKING ASSEMBLY C" W/5-10d NAILS.

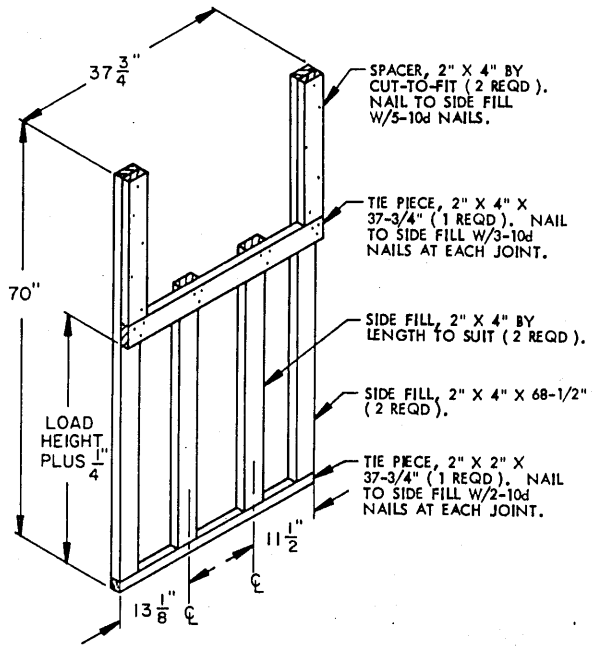
(5) HOLD-DOWN TIE PIECE, 2" X 4" X 37-3/4" (2 REQD). POSITION AGAINST THE ROOF OF THE CARGO TRANSPORTER AND NAIL TO PIECES MARKED (4) W/3-10d NAILS AT EACH END.

(6) DOORWAY BLOCKING ASSEMBLY A (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 5.



TOP VIEW

LESS-THAN-FULL LOAD OF WIREBOUND CONTAINERS

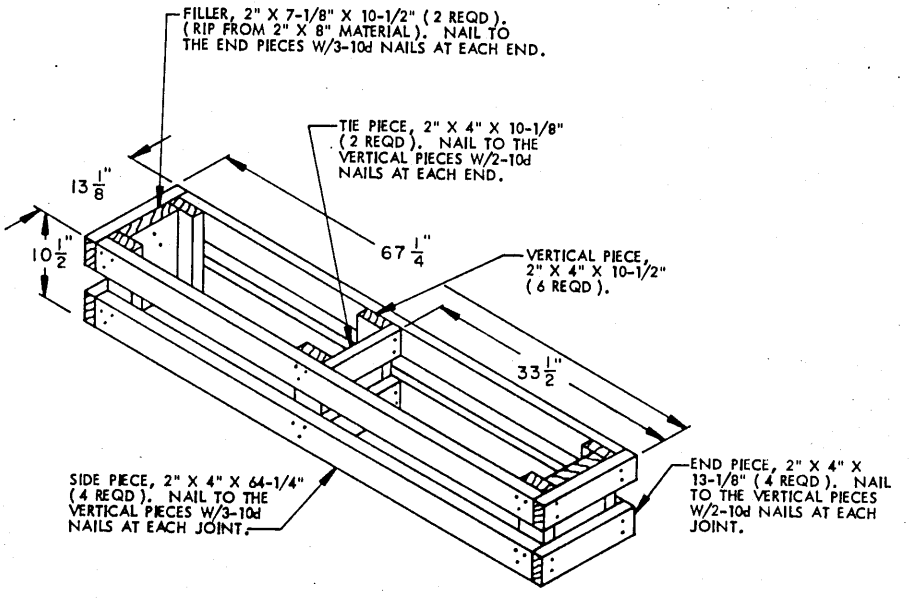


SIDE BLOCKING ASSEMBLY C

(SEE SPECIAL NOTE 4 AND "HOLD-DOWN DETAIL A" ON THIS PAGE)

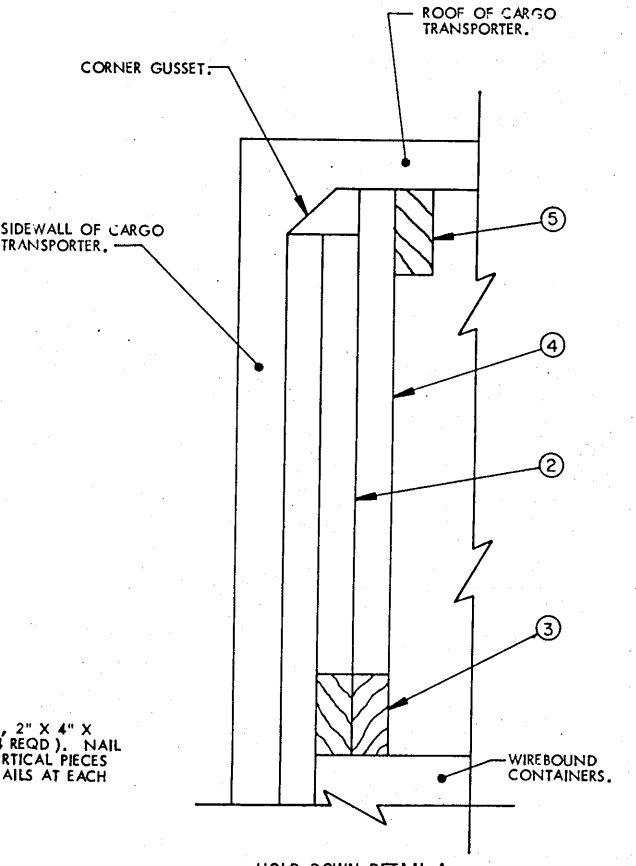
SPECIAL NOTES:

1. A TYPICAL PARTIAL LOAD OF 11 WIREBOUND CONTAINERS IS SHOWN IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER. THE FILLING AND BRACING PROCEDURES SHOWN ARE ADAPTABLE TO LOADS IN THE TYPE 2 (STANDARD) CARGO TRANSPORTER.
2. THE LOADS SHOULD CONSIST OF FULL CARGO TRANSPORTERS, AS SHOWN ON PAGES 4 THROUGH 7, TO THE MAXIMUM EXTENT POSSIBLE. HOWEVER, THE END OF A LOT OR THE QUANTITY OF ITEMS NEEDED TO FILL A REQUISITION MAY NECESSITATE THE LOADING OF A LESS-THAN-FULL CARGO TRANSPORTER.
3. A FILLER ASSEMBLY, SHOWN AS PIECE MARKED ①, MAY BE USED TO TAKE THE PLACE OF AN OMITTED WIREBOUND CONTAINER. IT MUST BE USED IN THE TOP LAYER ONLY.
4. THE "SIDE BLOCKING ASSEMBLY C" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE WIREBOUND CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER. NOTE: PIECES MARKED ③, ④, AND ⑤ MUST BE NAILED IN PLACE AFTER THE WIREBOUND CONTAINERS ARE LOADED.
5. WHEN LOADING A PARTIAL LOAD INTO A TYPE 2 (STANDARD) CARGO TRANSPORTER, SEE PAGES 6 AND 7 AND THE "MODIFIED SIDE BLOCKING ASSEMBLY B" DETAIL ON PAGE 16.



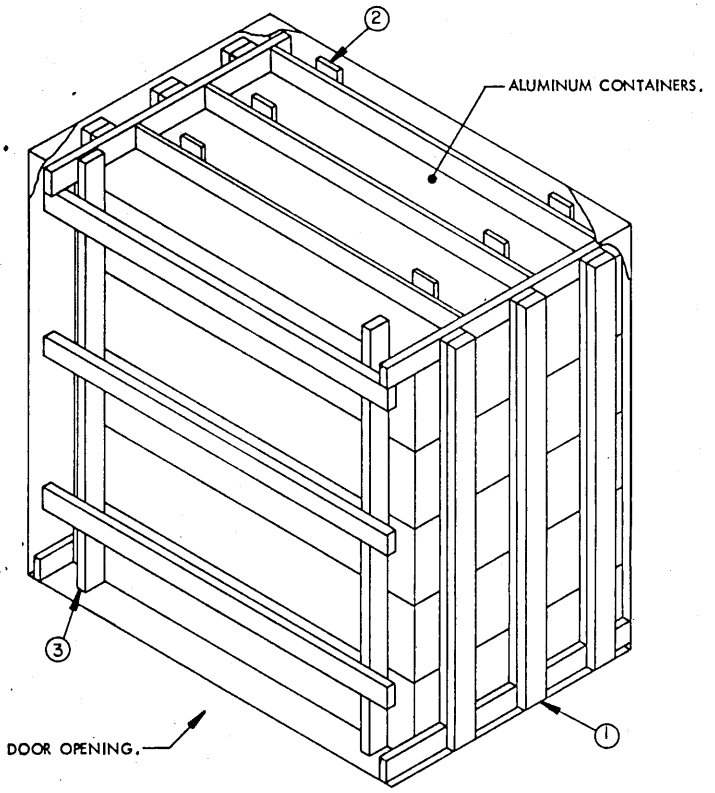
FILLER ASSEMBLY A

THE FILLER ASSEMBLY SHOWN ABOVE IS TO BE USED WITHIN LOADS TO TAKE THE PLACE OF AN OMITTED WIREBOUND CONTAINER. IT MUST BE USED IN THE TOP LAYER ONLY.



HOLD-DOWN DETAIL A

THIS VIEW DEPICTS THE POSITIONING OF PIECES ②, ③, ④, AND ⑤ TO AVOID BEARING AGAINST THE CORNER GUSSET ON EACH SIDE OF THE ROOF.



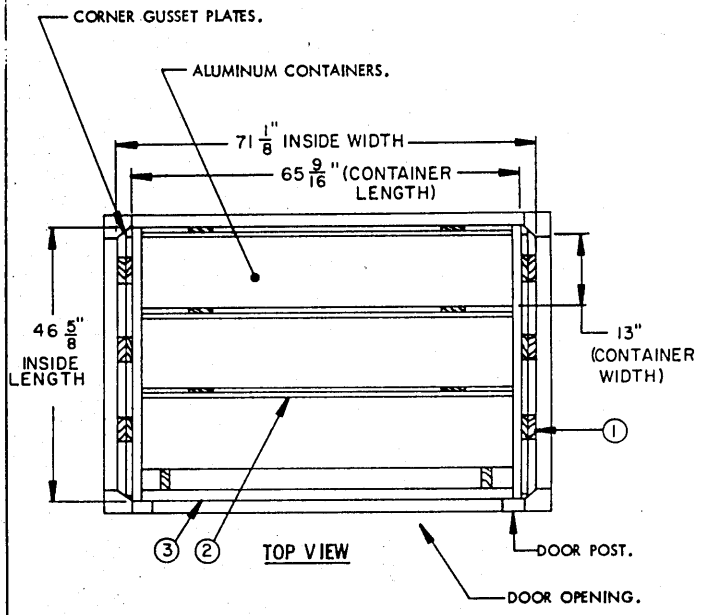
ISOMETRIC VIEW

KEY NUMBERS

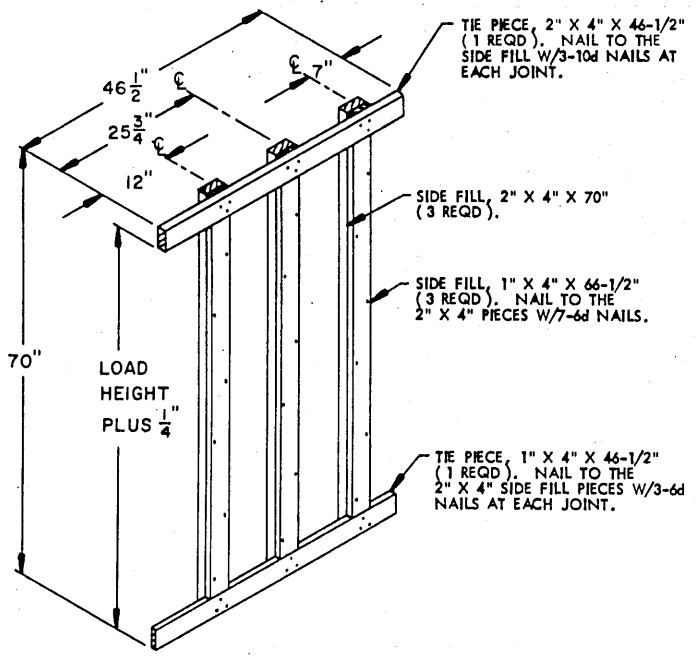
(1) SIDE BLOCKING ASSEMBLY D (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 11.

(2) SPACER ASSEMBLY A (3 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 11.

(3) DOORWAY BLOCKING ASSEMBLY B (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 6 ON PAGE 11.



15 ALUMINUM CONTAINERS IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER



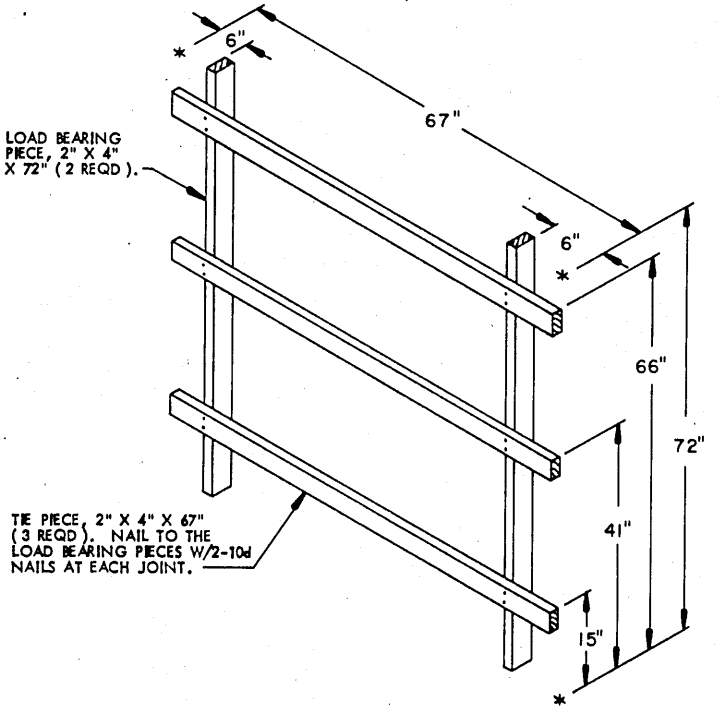
SIDE BLOCKING ASSEMBLY D

(SEE SPECIAL NOTE 4 ON THIS PAGE)

SPECIAL NOTES:

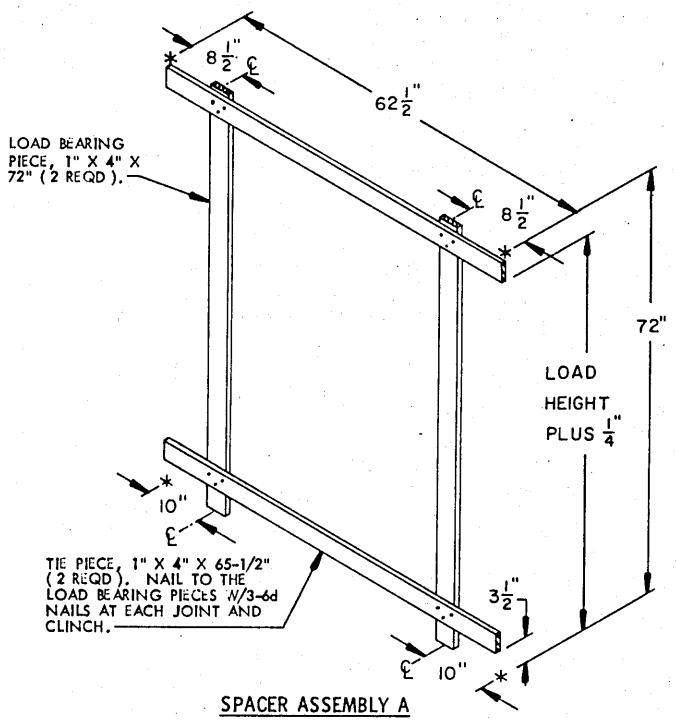
1. A FULL LOAD OF 15 ALUMINUM CONTAINERS IS SHOWN IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER.
2. IF IT IS NECESSARY TO SHIP A PARTIAL CONTAINER LOAD OF ALUMINUM CONTAINERS, SEE THE PROCEDURES ON PAGES 14 AND 15.
3. A FULL-LOAD-MINUS-ONE ALUMINUM CONTAINER (14 ALUMINUM CONTAINERS) MAY BE BLOCKED AND BRACED AS SHOWN ON PAGE 10 BY SUBSTITUTING A "FILLER ASSEMBLY B", AS SHOWN ON PAGE 15, IN LIEU OF THE OMITTED ALUMINUM CONTAINER.
4. THE "SIDE BLOCKING ASSEMBLY D" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE ALUMINUM CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER.
5. THE "SPACER ASSEMBLY A" MAY BE FABRICATED INSIDE OF THE CARGO TRANSPORTER AS LOADING PROGRESSES.
6. THE "DOORWAY BLOCKING ASSEMBLY B" MUST BE FABRICATED IN PLACE.
   A. POSITION THE TWO 2" X 4" X 72" LOAD BEARING PIECES ON END WITH THE EDGE AGAINST THE ALUMINUM CONTAINERS AND LOCATED 4" FROM THE ENDS OF THE ALUMINUM CONTAINERS AS SHOWN IN THE "TOP VIEW" ON PAGE 10.
   B. POSITION THE TIE PIECES TO EXTEND BEHIND THE DOOR POSTS EQUAL DISTANCE ON EACH SIDE AND AT THE HEIGHTS SHOWN. NAIL TO THE LOAD BEARING PIECES W/2-10d NAILS AT EACH JOINT.

NOTE: ADDITIONAL PIECES OF 4" WIDE BY 67" LONG BY THICKNESS-TO-SUIT MATERIAL MAY BE LAMINATED TO THE TIE PIECES IF REQUIRED FOR A TIGHT FIT.



DOORWAY BLOCKING ASSEMBLY B

(SEE SPECIAL NOTE 6 ON THIS PAGE)



SPACER ASSEMBLY A

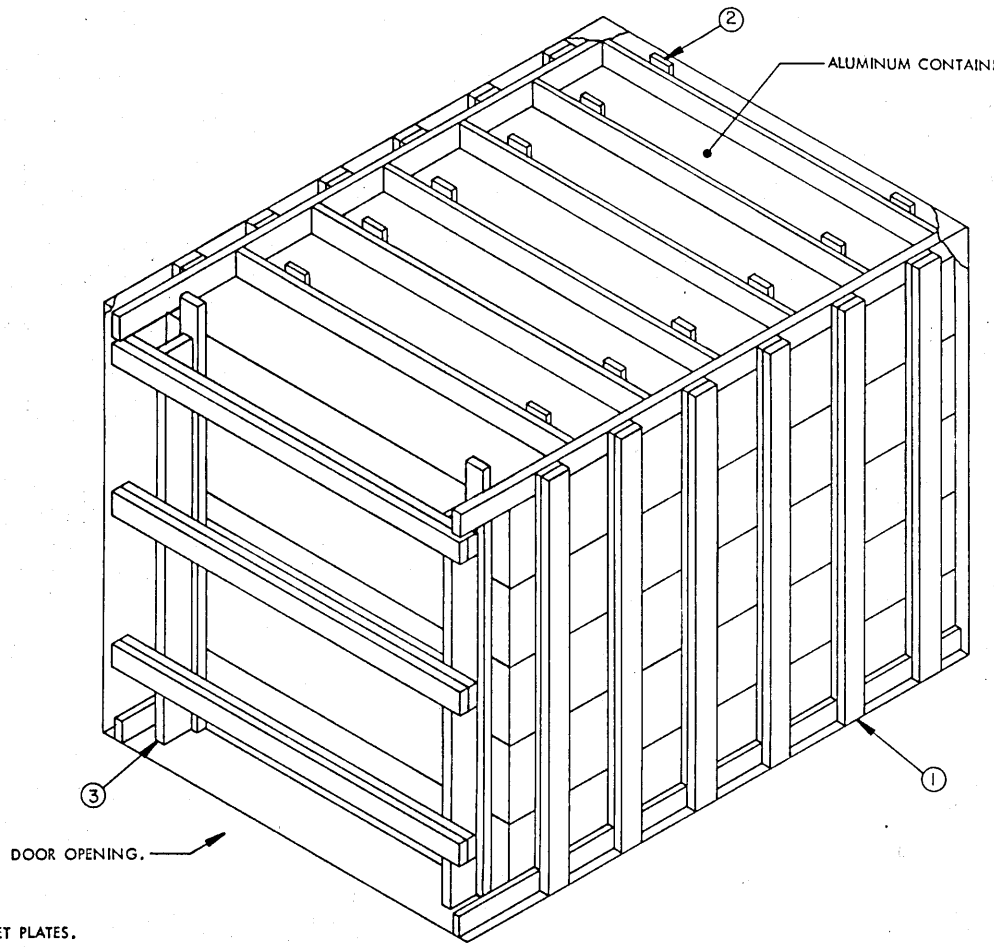
WHEN FABRICATING THIS ASSEMBLY, FIELD CHECK THE 3-1/2" DIMENSION ON THE BOTTOM TIE PIECE TO ASSURE IT FITS JUST ABOVE THE BOTTOM FLANGE ON THE CONTAINER. IT MAY BE NECESSARY TO "RIP" THIS PIECE TO ASSURE A GOOD FIT. SEE SPECIAL NOTE 5 ON THIS PAGE.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4" 2" X 4"	109.75 71.50	36.58 47.66
NAILS	NO. REQD	POUNDS
6d (2") 10d (3")	96 30	0.56 0.44

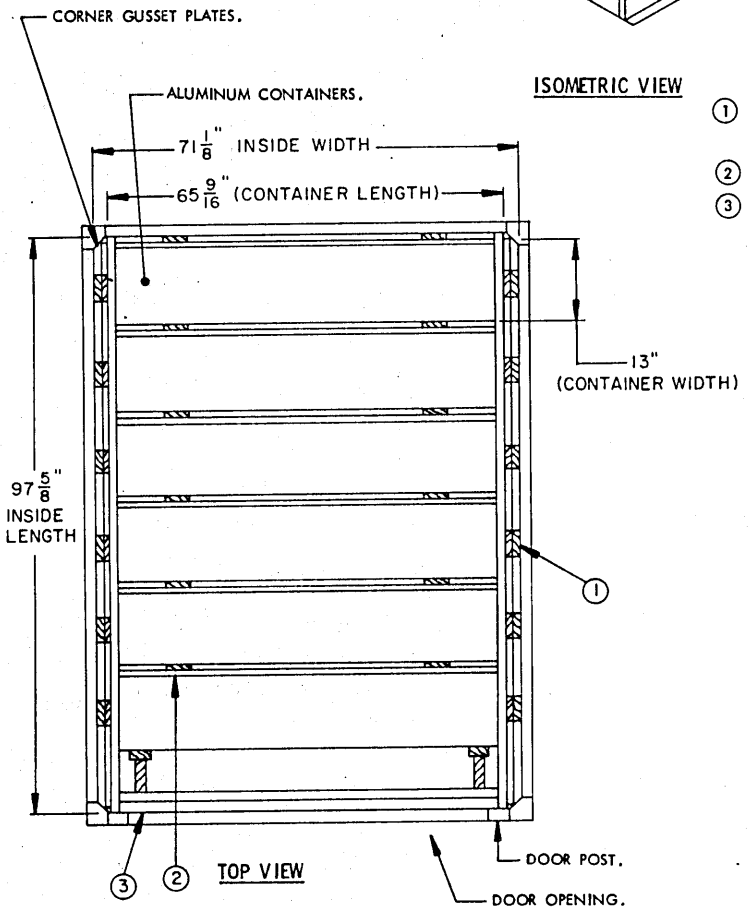
LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
ALUMINUM CONTAINER	15	1,286 LBS
DUNNAGE		170 LBS
TOTAL WEIGHT		1,456 LBS

15 ALUMINUM CONTAINERS IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER



ISOMETRIC VIEW



TOP VIEW

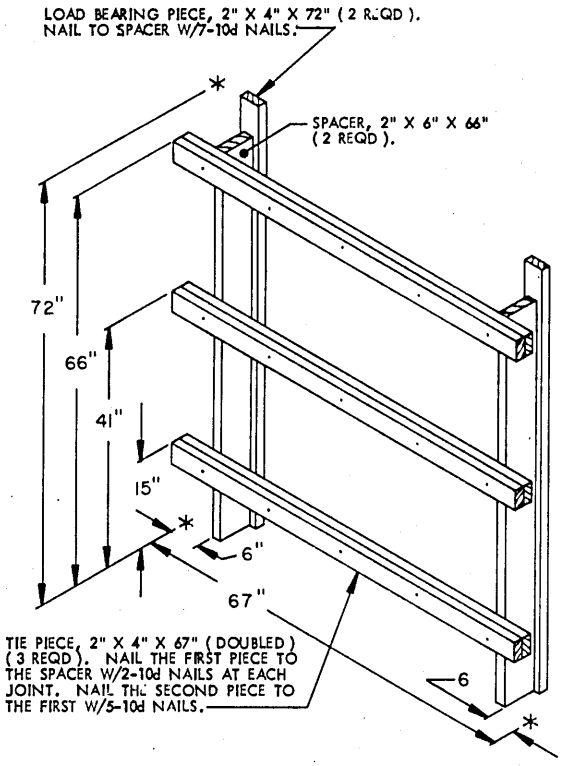
KEY NUMBERS

(1) SIDE BLOCKING ASSEMBLY E (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 13.

(2) SPACER ASSEMBLY B (6 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 13.

(3) DOORWAY BLOCKING ASSEMBLY C (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 6 ON PAGE 13.

30 ALUMINUM CONTAINERS IN A TYPE 2 (STANDARD SIZE) CARGO TRANSPORTER



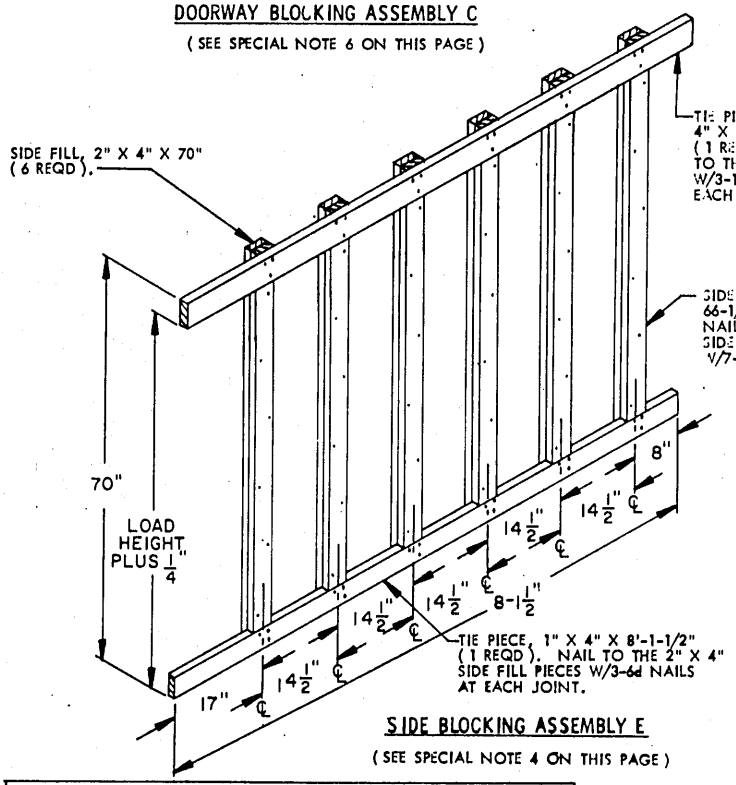
SPECIAL NOTES:

1. A FULL LOAD OF 30 ALUMINUM CONTAINERS IS SHOWN IN A TYPE 2 (STANDARD) CARGO TRANSPORTER.
2. IF IT IS NECESSARY TO SHIP A PARTIAL CONTAINER LOAD OF ALUMINUM CONTAINERS, SEE THE PROCEDURES ON PAGES 14 AND 15 AND THE "MODIFIED SIDE BLOCKING ASSEMBLY E" DETAIL ON PAGE 16.
3. A FULL-LOAD-MINUS-ONE ALUMINUM CONTAINER (29 ALUMINUM CONTAINERS) MAY BE BLOCKED AND BRACED AS SHOWN ON PAGE 12 BY SUBSTITUTING A "FILLER ASSEMBLY B", AS SHOWN ON PAGE 15, IN LIEU OF THE OMITTED ALUMINUM CONTAINER.
4. THE "SIDE BLOCKING ASSEMBLY E" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE ALUMINUM CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER.
5. THE "SPACER ASSEMBLY B" MAY BE FABRICATED INSIDE OF THE CARGO TRANSPORTER AS LOADING PROGRESSES.
6. THE "DOORWAY BLOCKING ASSEMBLY C" MUST BE FABRICATED IN PLACE.
   A. POSITION THE LOAD BEARING PIECE TO CENTER ON THE EDGE OF THE SPACER PIECE AND NAIL TO THE SPACER PIECE W/7-10d NAILS.
   B. POSITION THE LOAD BEARING PIECES ON END AGAINST THE ALUMINUM CONTAINERS AND LOCATED 3" FROM THE ENDS OF THE ALUMINUM CONTAINERS AS SHOWN IN THE "TOP VIEW" ON PAGE 12.
   C. POSITION THE FIRST THREE TIE PIECES TO EXTEND BEHIND THE DOOR POSTS EQUAL DISTANCE ON EACH SIDE AND AT THE HEIGHTS SHOWN. NAIL TO THE SPACER PIECES W/2-10d NAILS AT EACH JOINT. POSITION THE SECOND THREE TIE PIECES ON TOP OF THE FIRST THREE AND LAMINATE W/5-10d NAILS EACH PIECE.

   NOTE: ADDITIONAL PIECES OF 4" WIDE BY 67" LONG BY THICKNESS-TO-SUIT MATERIAL MAY BE LAMINATED TO THE TIE PIECES IF REQUIRED FOR A SNUG FIT.

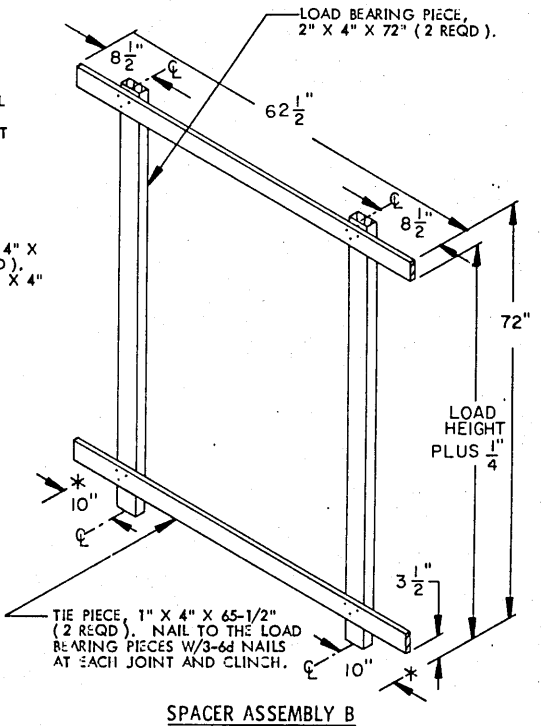
DOORWAY BLOCKING ASSEMBLY C

(SEE SPECIAL NOTE 6 ON THIS PAGE)



SIDE BLOCKING ASSEMBLY E

(SEE SPECIAL NOTE 4 ON THIS PAGE)



SPACER ASSEMBLY B

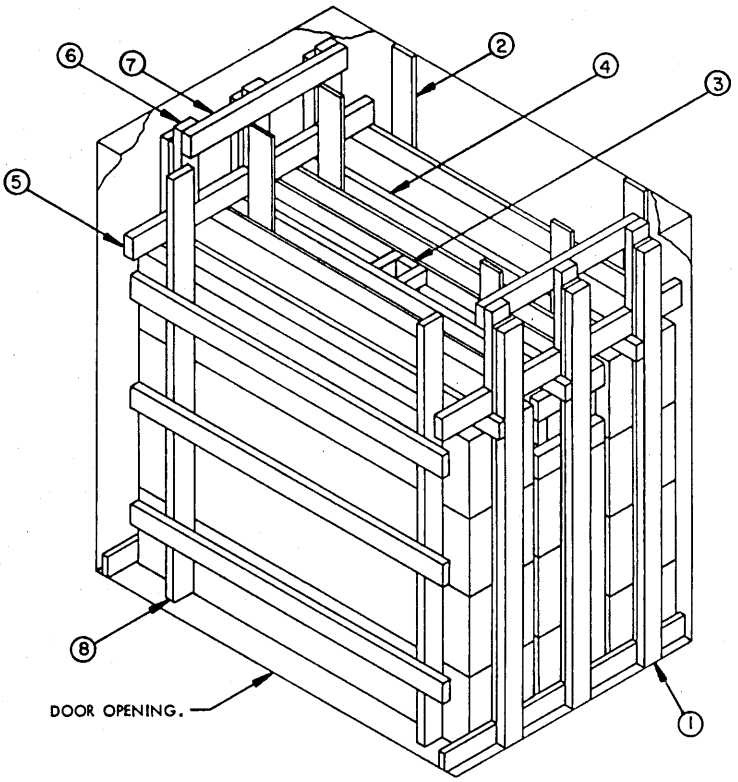
WHEN FABRICATING THIS ASSEMBLY, FIELD CHECK THE 3-1/2" DIMENSION ON THE BOTTOM TIE PIECE TO ASSURE IT FITS JUST ABOVE THE BOTTOM FLANGE ON THE CONTAINER. IT MAY BE NECESSARY TO "RIP" THE TIE PIECE TO ASSURE A GOOD FIT. SEE SPECIAL NOTE 5 ON THIS PAGE.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	148.25	49.42
2" X 4"	203.75	135.83
2" X 6"	11.00	11.00
NAILS	NO. REQD	POUNDS
6d (2")	192	1.13
10d (3")	83	1.28

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
ALUMINUM CONTAINER	30	2,573 LBS
DUNNAGE		395 LBS
TOTAL WEIGHT		2,968 LBS

30 ALUMINUM CONTAINERS IN A TYPE 2 (STANDARD SIZE) CARGO TRANSPORTER



ISOMETRIC VIEW

KEY NUMBERS

(1) SIDE BLOCKING ASSEMBLY D (2 REQD). ONE RIGHT HAND AND ONE LEFT HAND SIDE BLOCKING ASSEMBLY WILL BE REQUIRED. SEE THE DETAIL AND SPECIAL NOTE 4 ON PAGE 11. SEE SPECIAL NOTE 4 AND "HOLD-DOWN DETAIL B" ON PAGE 15.

(2) SPACER ASSEMBLY A (3 REQD). SEE THE DETAIL AND SPECIAL NOTE 5 ON PAGE 11.

(3) FILLER ASSEMBLY (1 REQD). SEE THE "FILLER ASSEMBLY B" DETAIL AND SPECIAL NOTE 3 ON PAGE 15.

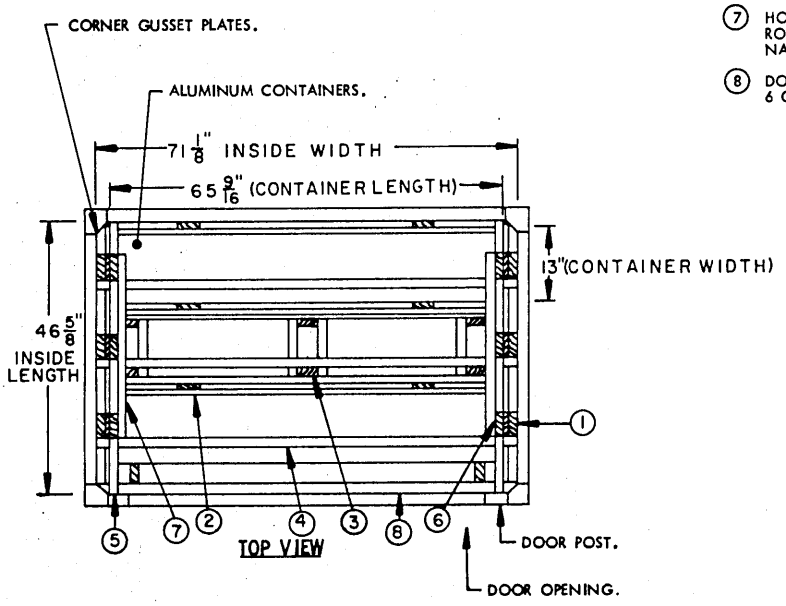
(4) HOLD-DOWN, 2" X 4" BY CARGO TRANSPORTER WIDTH MINUS 1/2" (3 REQD). POSITION ON EDGE ACROSS TOP OF ALUMINUM CONTAINER AND NAIL TO PIECE MARKED (1) W/2-10d NAILS AT EACH END.

(5) HOLD-DOWN TIE PIECE, 2" X 4" X 46-1/2" (2 REQD). POSITION ON TOP OF PIECES MARKED (4) AND NAIL TO PIECE MARKED (1) W/3-10d NAILS AT EACH JOINT.

(6) HOLD-DOWN CLEAT, 2" X 4" BY CUT-TO-FIT BETWEEN PIECE MARKED (5) AND THE ROOF OF THE CARGO TRANSPORTER (6 REQD). NAIL TO PIECE MARKED (1) W/3-10d NAILS.

(7) HOLD-DOWN SUPPORT PIECE, 2" X 4" X 31" (2 REQD). POSITION AGAINST THE ROOF OF THE CARGO TRANSPORTER AND NAIL TO PIECES MARKED (6) W/3-10d NAILS AT EACH JOINT.

(8) DOORWAY BLOCKING ASSEMBLY D (1 REQD). SEE THE DETAIL AND SPECIAL NOTE 6 ON PAGE 15.



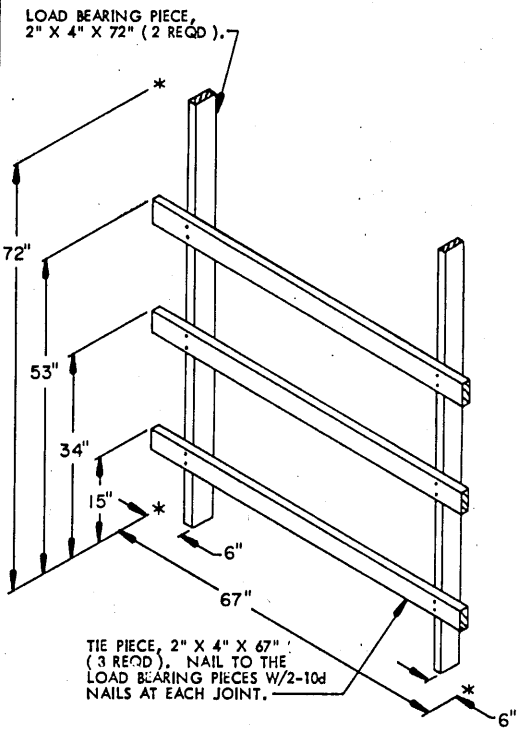
TOP VIEW

LESS-THAN-FULL LOAD OF ALUMINUM CONTAINERS

SPECIAL NOTES:

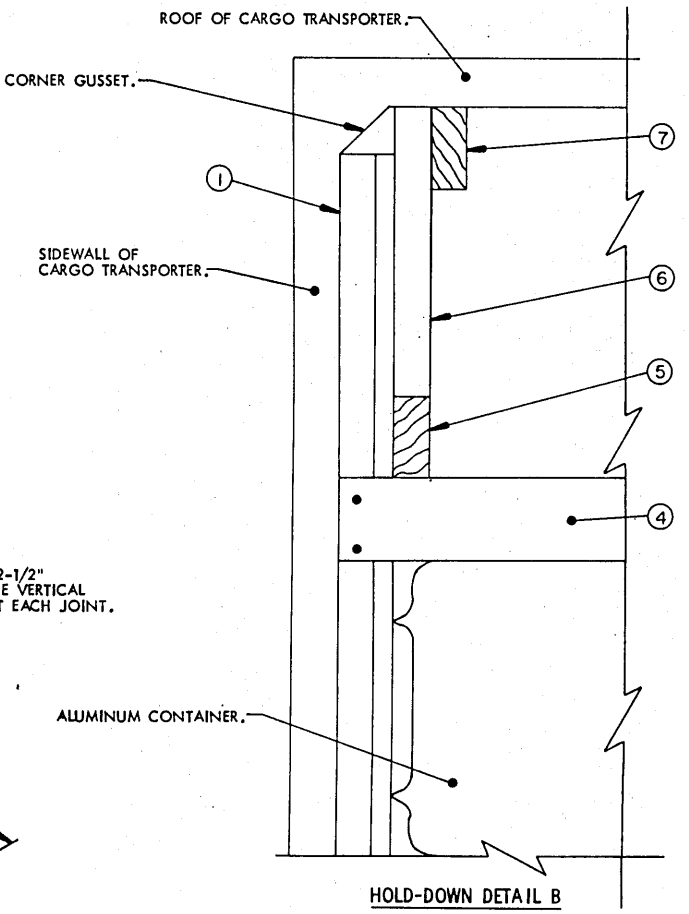
1. A TYPICAL PARTIAL LOAD OF 11 ALUMINUM CONTAINERS IS SHOWN IN A TYPE 1 (HALF SIZE) CARGO TRANSPORTER. THE FILLING AND BRACING PROCEDURES SHOWN ARE ADAPTABLE TO LOADS IN THE TYPE 2 (STANDARD) CARGO TRANSPORTER.
2. THE LOADS SHOULD CONSIST OF FULL CARGO TRANSPORTERS, AS SHOWN ON PAGE 10 THROUGH 13, TO THE MAXIMUM EXTENT POSSIBLE. HOWEVER, THE END OF A LOT OR THE QUANTITY OF ITEMS NEEDED TO FILL A REQUISITION MAY NECESSITATE THE LOADING OF A LESS-THAN-FULL CARGO TRANSPORTER.
3. A FILLER ASSEMBLY, SHOWN AS PIECE MARKED ③, MAY BE USED TO TAKE THE PLACE OF AN OMITTED ALUMINUM CONTAINER. IT MUST BE USED IN THE TOP LAYER ONLY.
4. THE "SIDE BLOCKING ASSEMBLY D" MAY BE FABRICATED OUTSIDE OF THE CARGO TRANSPORTER AND POSITIONED WITHIN PRIOR TO LOADING THE ALUMINUM CONTAINERS. A RIGHT HAND AND A LEFT HAND ASSEMBLY ARE REQUIRED BECAUSE OF THE CORNER GUSSET PLATES IN THE CARGO TRANSPORTER. NOTE: WHEN FABRICATING THE "SIDE BLOCKING ASSEMBLY D" OMIT THE 2" X 4" X 46-1/2" TIE PIECE. PIECES MARKED ④, ⑤, ⑥, AND ⑦ MUST BE NAILED IN PLACE AFTER THE ALUMINUM CONTAINERS ARE LOADED.
5. THE "SPACER ASSEMBLY A" MAY BE FABRICATED INSIDE OF THE CARGO TRANSPORTER AS LOADING PROGRESSES.
6. THE "DOORWAY BLOCKING ASSEMBLY D" MUST BE FABRICATED IN PLACE.
   A. POSITION THE TWO 2" X 4" X 72" LOAD BEARING PIECES ON END WITH THE EDGE AGAINST THE ALUMINUM CONTAINERS AND LOCATED 4" FROM THE ENDS OF THE ALUMINUM CONTAINERS AS SHOWN IN THE "TOP VIEW" ON PAGE 10.
   B. POSITION THE TIE PIECES TO EXTEND BEHIND THE DOOR POSTS EQUAL DISTANCE ON EACH SIDE AND AT THE HEIGHTS SHOWN. NAIL TO THE LOAD BEARING PIECES W/2-10d NAILS AT EACH JOINT.

NOTE: ADDITIONAL PIECES OF 4" WIDE BY 67" LONG BY THICKNESS-TO-SUIT MATERIAL MAY BE LAMINATED TO THE TIE PIECES IF REQUIRED FOR A TIGHT FIT.



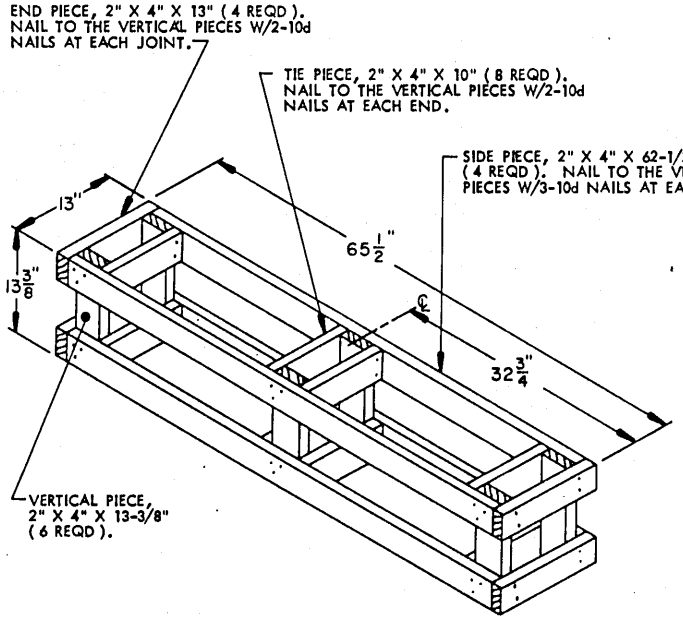
DOORWAY BLOCKING ASSEMBLY D

(SEE SPECIAL NOTE 6 ON THIS PAGE)



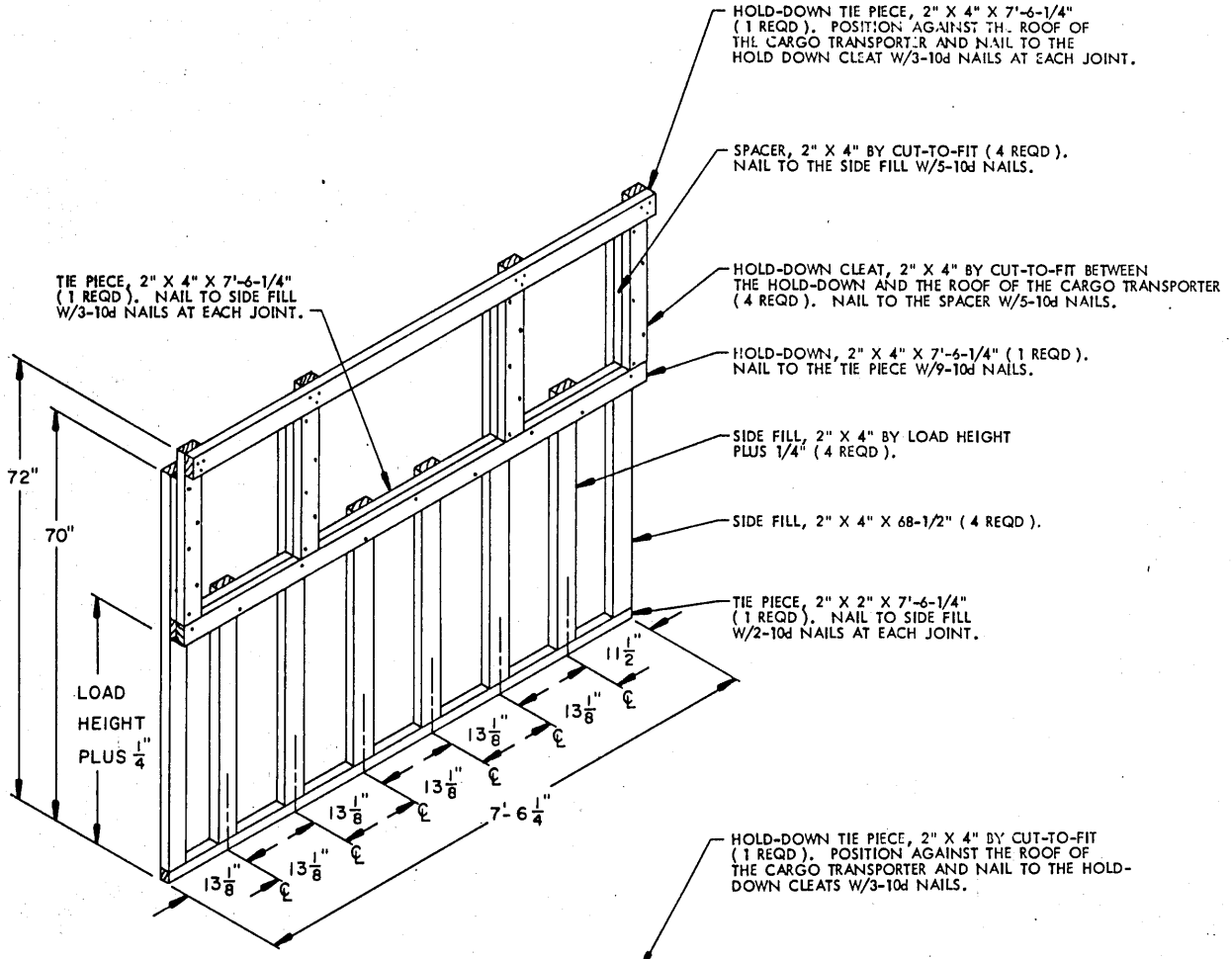
HOLD-DOWN DETAIL B

THIS VIEW DEPICTS THE POSITIONING OF PIECES ①, ④, ⑤, ⑥, AND ⑦ TO AVOID BEARING AGAINST THE CORNER GUSSET ON EACH SIDE OF THE ROOF.



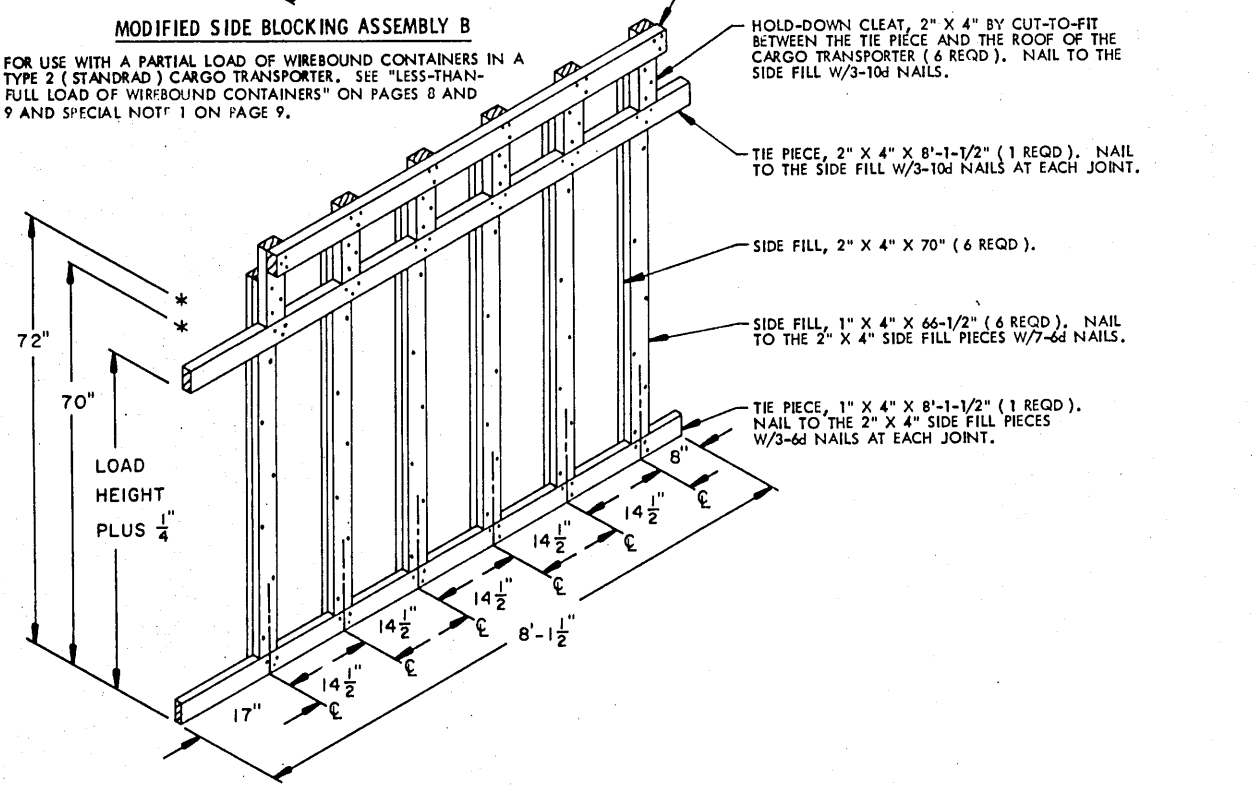
FILLER ASSEMBLY B

THE FILLER ASSEMBLY SHOWN ABOVE IS TO BE USED WITHIN LOADS TO TAKE THE PLACE OF AN OMITTED ALUMINUM CONTAINER. IT MUST BE USED IN THE TOP LAYER ONLY.



MODIFIED SIDE BLOCKING ASSEMBLY B

FOR USE WITH A PARTIAL LOAD OF WIREBOUND CONTAINERS IN A TYPE 2 (STANDRAD) CARGO TRANSPORTER. SEE "LESS-THAN-FULL LOAD OF WIREBOUND CONTAINERS" ON PAGES 8 AND 9 AND SPECIAL NOTE 1 ON PAGE 9.



MODIFIED SIDE BLOCKING ASSEMBLY E

FOR USE WITH A PARTIAL LOAD OF ALUMINUM CONTAINERS IN A TYPE 2 (STANDARD SIZE) CARGO TRANSPORTER. SEE "LESS-THAN-FULL LOAD OF ALUMINUM CONTAINERS" ON PAGES 14 AND 15 AND SPECIAL NOTE 1 ON PAGE 15.