

APPENDIX 10

UNITIZING PROCEDURES FOR PROPELLING CHARGES PACKED IN CYLINDRICAL METAL CONTAINERS ON 4-WAY ENTRY PALLETS

PA66 SERIES CONTAINERS

INDEX

<u>ITEM</u>	<u>PAGES (S)</u>
GENERAL NOTES -----	2
UNIT A (ALTERNATED CONTAINERS) -----	4, 5
UNIT B (FLAT DUNNAGE) -----	6, 7
UNIT C (ROUTED DUNNAGE) -----	8, 9
FILLERS AND INSTALLATION PROCEDURES FOR OMITTED CONTAINERS:	
UNIT A (ALTERNATED CONTAINERS) -----	10, 11
UNIT B (FLAT DUNNAGE) -----	12, 13
UNIT C (ROUTED DUNNAGE) -----	14, 15

PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASSIFICATION ①				WEIGHT (LBS)
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	
1320-						
01-014-2451	D661	B	II-A	1.3	C	1,273
01-070-4485	D662	B	II-A	1.3	C	TO
01-070-4486	D662	B	II-A	1.3	C	1,738

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4042-20PM1001.

THIS DRAWING SUPERSEDES PART OF DRAWING 19-48-4042-1-2-5-11-14PM1000, DATED FEBRUARY 1965, AND REVISION 1, THERETO, DATED 29 AUGUST 1969.

- ① HAZARD CLASSIFICATION INFORMATION CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING (S).

DO NOT SCALE

REVISIONS			DESIGNER <i>WRF/hlw</i>	PROJ ENG <i>WRF/hlw</i>	DATE
1	JULY 86	<i>WRF</i>	<i>WRF/hlw</i>	<i>WRF/hlw</i>	<i>7-1-74</i>
			CHECKER <i>GRS</i>	LOC ENGINE OFFICE	
APPROVED, U. S. ARMY EQUIPMENT SUPPORT READINESS COMMAND					
			DRBAR - MAD	DRBAR - TMD	
APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)					
U. S. ARMY DEFENSE ADMINISTRATION CENTER AND SCHOOL					
U. S. ARMY DARCOM DRAWING					
OCTOBER 1979					
	CLASS	DIVISION	DRAWING	FILE	
	19	48	4042A/ 10	20PM 1001	

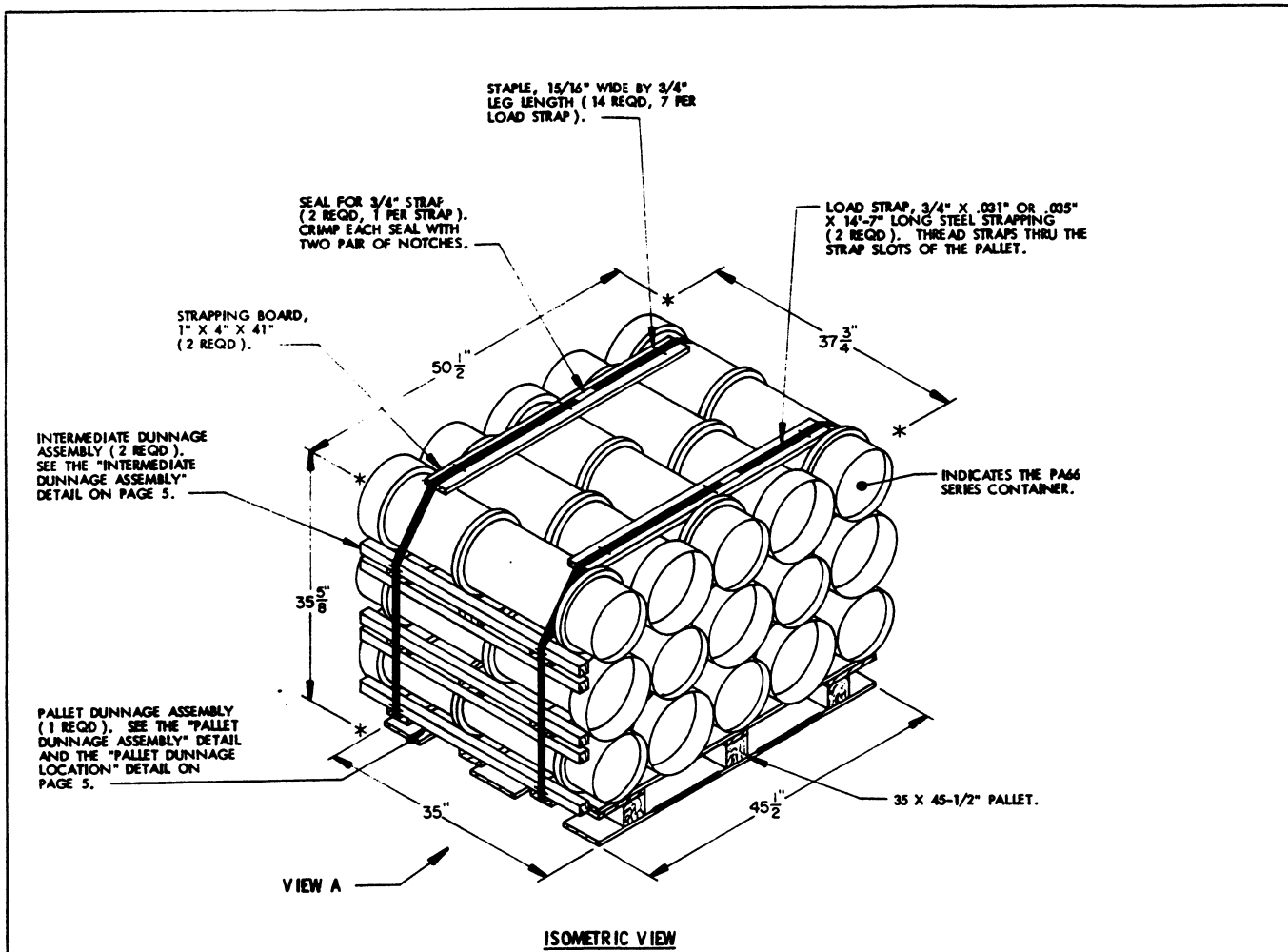
GENERAL NOTES

REVISION

REVISION NO. 1, DATED JULY 1986, CONSISTS OF:
CHANGING 1-1/4" STRAPPING TO 3/4" STRAPPING.

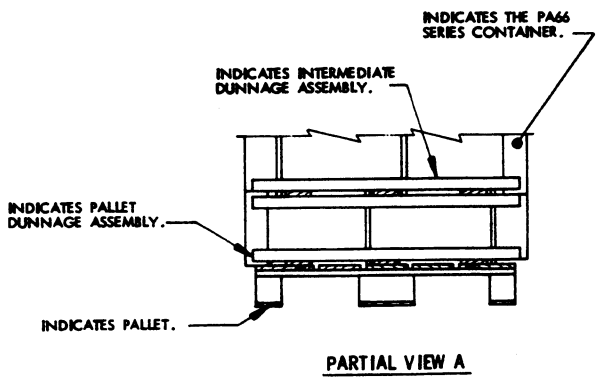
- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZING PROCEDURES DRAWING 19-48-4042-20PM1001. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. DIMENSIONS, CUBE AND WEIGHT OF A PALLET UNIT WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE CONTAINER, WEIGHT OF THE SPECIFIED ITEM AND METHOD OF UNITIZATION.
- C. OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX SHALL BE ACCOMPLISHED IN ACCORDANCE WITH AMC (DARCOM) DRAWINGS IDENTIFIED WITHIN DA PAMPHLET 75-5.
- D. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.
- E. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE CONTAINERS NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- F. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING PROPELLING CHARGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN THOSE SHOWN ON THE COVER PAGE, PROVIDED THE ITEM IS PACKED IN THE PA66 SERIES CONTAINER. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN THOSE SHOWN.
- G. FOR DETAILS OF THE PA66 SERIES CONTAINER, SEE PICATINNY ARSENAL DRAWING NO. 9275845.
- CONTAINER DIMENSIONS ----- 37-3/4" LONG BY 10-15/32" DIAMETER.
CONTAINER CUBE ----- 1.9 CUBIC FEET.
CONTAINER WEIGHT
(WITH CHARGE) ----- 77 POUNDS (APPROX).
- H. THE SPECIFIED UNITIZING PROCEDURES SHOWN HEREIN DEPICT THREE DIFFERENT METHODS FOR UNITIZING THE PA66 SERIES CONTAINER:
1. UNIT "A" DEPICTS CONTAINERS UNITIZED ON FLAT DUNNAGE WITH EVERY OTHER CONTAINER ALTERNATED (BASE END, BELL END, BASE END) INDIVIDUALLY AND BY LAYERS. SEE DETAILS ON PAGES 4 AND 5.
 2. UNIT "B" DEPICTS CONTAINERS UNITIZED ON FLAT DUNNAGE. SEE DETAILS ON PAGES 6 AND 7.
 3. UNIT "C" DEPICTS CONTAINERS UNITIZED ON ROUTED DUNNAGE. SEE DETAILS ON PAGES 8 AND 9.
- ALTHOUGH UNIT "A" DEPICTS THE PREFERRED METHOD OF UNITIZING THE PA66 SERIES CONTAINER, ALL THREE METHODS ARE APPROVED FOR USE.
- J. IF DEEMED MORE ECONOMICAL FOR SHIPPING AND STORAGE BY THE RESPONSIBLE COMMAND, THE UNITS DEPICTED IN THE FOLLOWING PAGES MAY HAVE ONE COMPLETE LAYER OF CONTAINERS EITHER ADDED OR DELETED, WHICHEVER IS APPLICABLE. FOR FURTHER UNITIZATION GUIDANCE, SEE SPECIAL NOTE 1 ON PAGES 4, 6 AND 8.

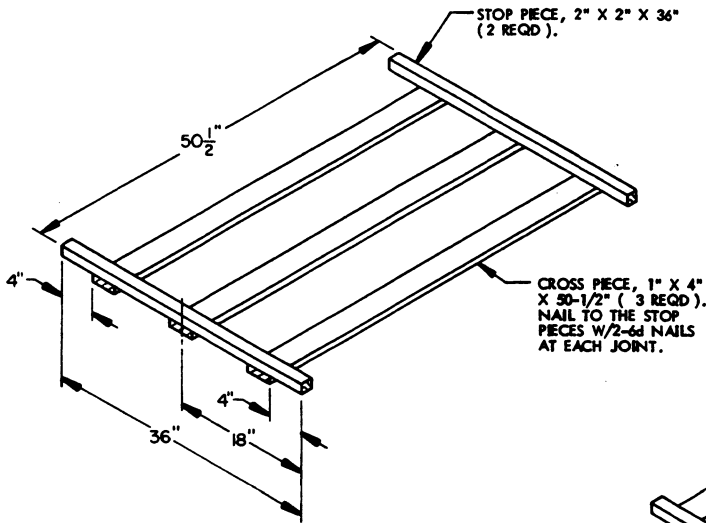
THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK.



SPECIAL NOTE:

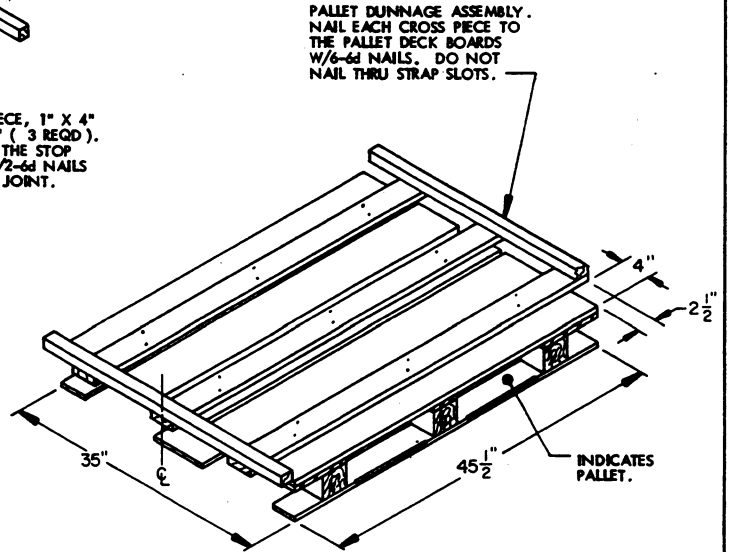
1. THE UNIT DEPICTED ABOVE MAY BE INCREASED BY ONE COMPLETE LAYER OF CONTAINERS BY THE ADDITION OF ONE INTERMEDIATE DUNNAGE ASSEMBLY AND FIVE CONTAINERS, BY INCREASING THE STRAP LENGTHS APPROPRIATELY AND BY SUBSTITUTING 1-1/4" STRAPPING FOR 3/4" STRAPPING. THIS WILL RESULT IN AN OVER-ALL UNIT HEIGHT OF 45-3/8".



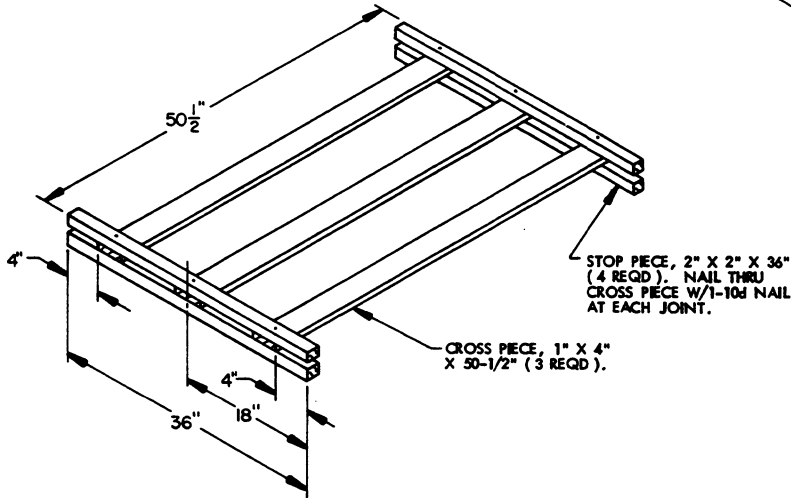


PALLET DUNNAGE ASSEMBLY

(1 REQD)



PALLET DUNNAGE LOCATION



INTERMEDIATE DUNNAGE ASSEMBLY

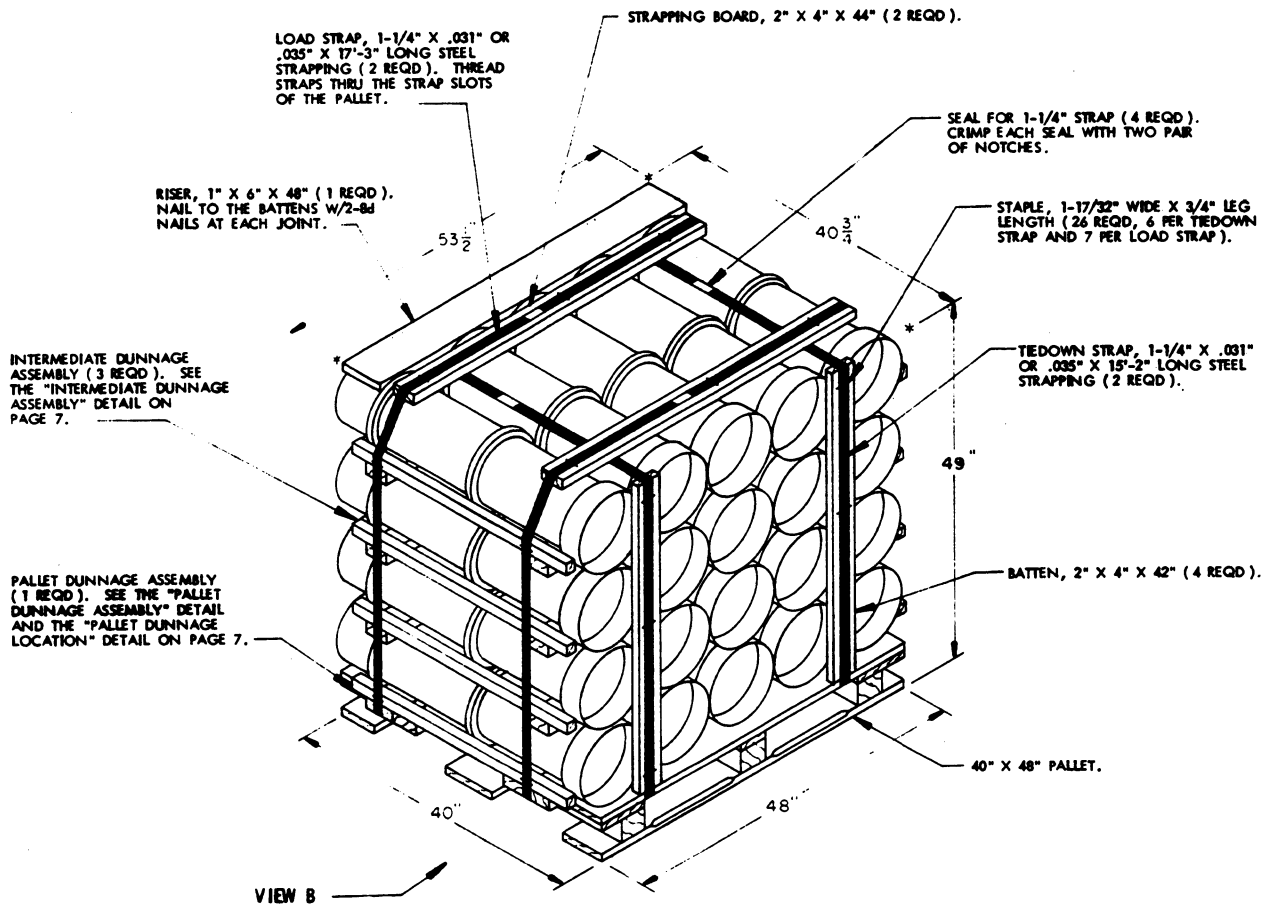
(2 REQD)

BILL OF MATERIAL			
LUMBER	NO. REQD	LINEAR FEET	BOARD FEET
1" X 4" X 41"	2	6.83	2.28
1" X 4" X 50-1/2"	9	37.88	12.63
2" X 2" X 36"	10	30.00	10.00
NAILS		NO. REQD	POUNDS
6d (2")		30	0.18
10d (3")		24	0.37
PALLET, 35" X 45-1/2"		1 REQD	65 LBS
STEEL STRAPPING, 3/4" X .031" OR .035" - 29.17'		29.17' REQD	2.08 LBS
SEAL FOR 3/4" STRAP		2 REQD	NIL
STAPLE, 15/16" X 3/4"		14 REQD	NIL

UNIT DATA

WEIGHT

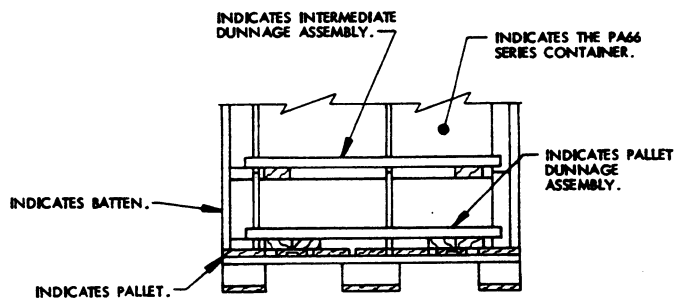
CUBE	39.3 CUBIC FEET (APPROX)	
CONTAINER, PA66 SERIES	15 EA @ 77 LBS	1,155 LBS (APPROX)
DUNNAGE		53 LBS
PALLET		65 LBS
TOTAL WEIGHT		1,273 LBS (APPROX)



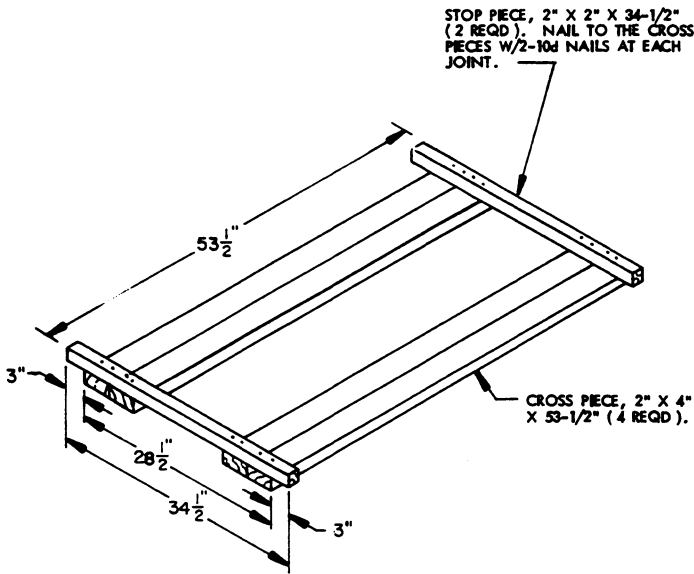
ISOMETRIC VIEW

SPECIAL NOTES:

1. THE UNIT DEPICTED ABOVE MAY BE REDUCED BY ONE COMPLETE LAYER OF CONTAINERS BY THE DELETION OF ONE INTERMEDIATE DUNNAGE ASSEMBLY AND FIVE CONTAINERS, BY DECREASING STRAP LENGTHS APPROPRIATELY AND BY SUBSTITUTING 3/4" STRAPPING FOR 1-1/4" STRAPPING. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 38-1/2".
2. IF DESIRED, A 2" X 6" PIECE CAN BE SUBSTITUTED FOR EACH SET OF TWO (SIDE BY SIDE) 2" X 4" PIECES ON THE PALLET DUNNAGE ASSEMBLY. EACH 2" X 6" PIECE WILL BE NAILED TO THE PALLET W/6-8d NAILS.

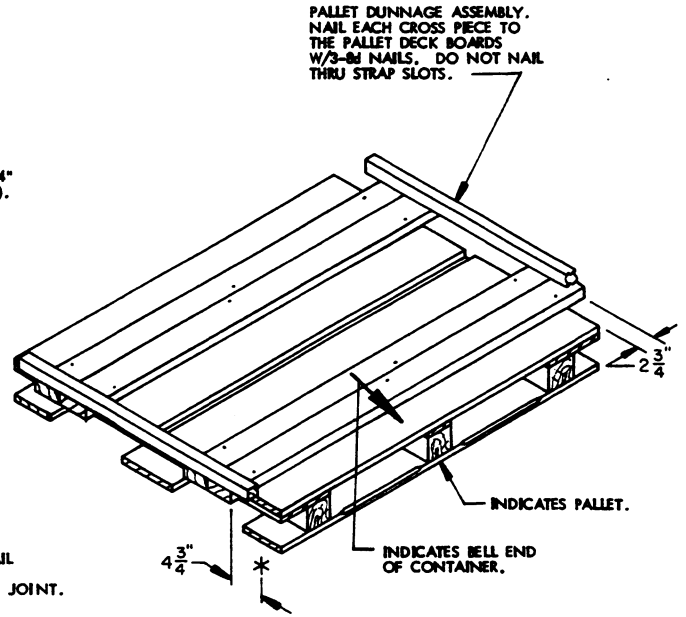


PARTIAL VIEW B

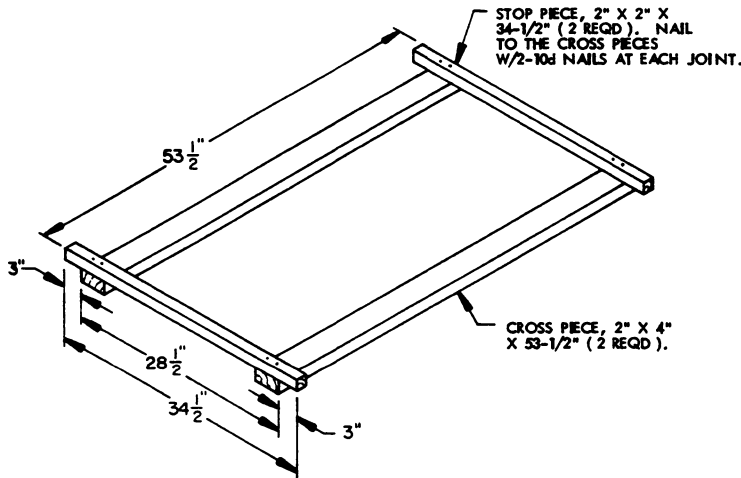


PALLET DUNNAGE ASSEMBLY

(1 REQD)



PALLET DUNNAGE LOCATION



INTERMEDIATE DUNNAGE ASSEMBLY

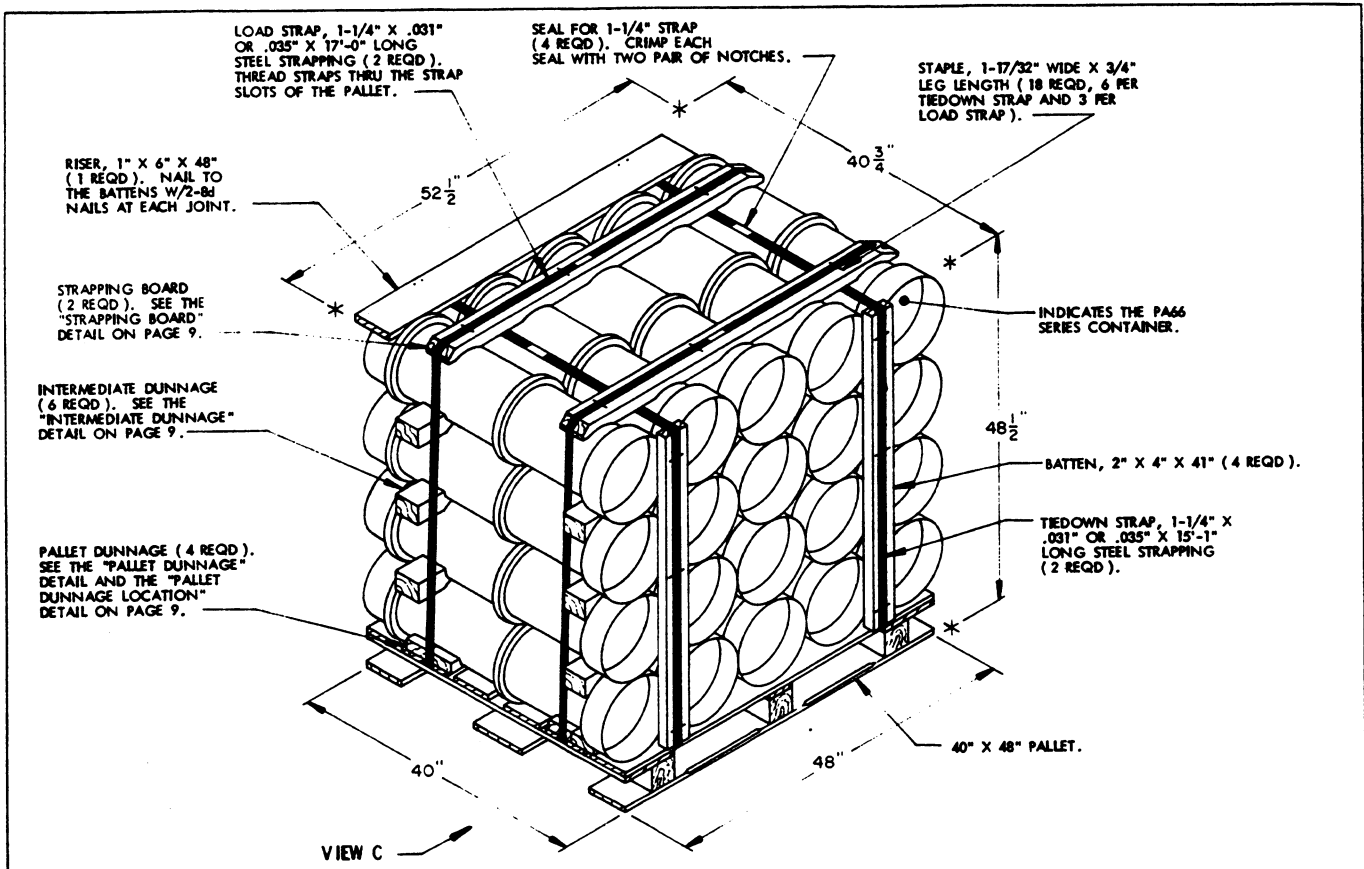
(3 REQD)

BILL OF MATERIAL			
LUMBER	NO. REQD	LINEAR FEET	BOARD FEET
1" X 6" X 48"	1	4.00	2.00
2" X 2" X 34-1/2"	8	23.00	7.67
2" X 4" X 42"	4	14.00	9.33
2" X 4" X 44"	2	7.33	4.89
2" X 4" X 53-1/2"	10	44.58	29.72
NAILS		NO. REQD	POUNDS
8d (2-1/2")		16	0.17
10d (3")		40	0.62
PALLET, 40" X 48"		1 REQD	80 LBS
STEEL STRAPPING, 1-1/4" X .031" OR .035"		64.83' REQD	9.26 LBS
SEAL FOR 1-1/4" STRAP		4 REQD	NIL
STAPLE, 1-17/32" X 3/4"		26 REQD	NIL

UNIT DATA

WEIGHT

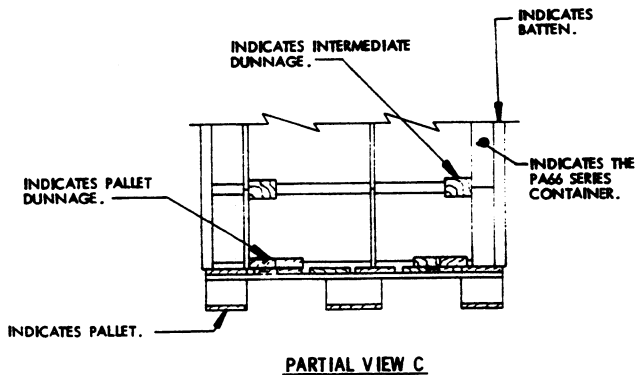
CUBE	61.8 CUBIC FEET (APPROX)	
CONTAINER, PA46 SERIES	20 EA @ 77 LBS	1,540 LBS (APPROX)
DUNNAGE		118 LBS
PALLET		80 LBS
TOTAL WEIGHT		1,738 LBS (APPROX)



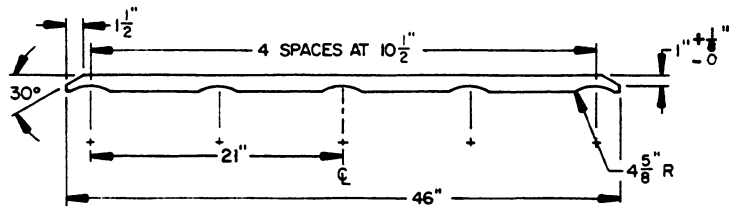
ISOMETRIC VIEW

SPECIAL NOTES:

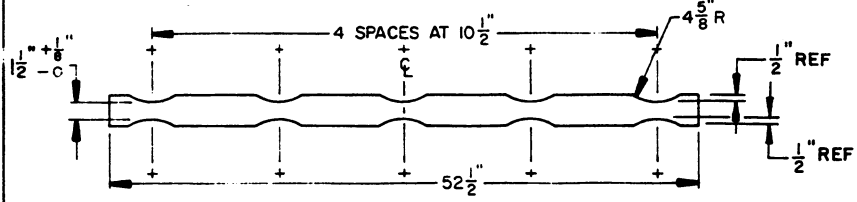
1. THE UNIT DEPICTED ABOVE MAY BE REDUCED BY ONE COMPLETE LAYER OF CONTAINERS BY THE DELETION OF TWO INTERMEDIATE DUNNAGE PIECES AND FIVE CONTAINERS, BY DECREASING STRAP LENGTHS APPROPRIATELY AND BY SUBSTITUTING 3/4" STRAPPING FOR 1-1/4" STRAPPING. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 37-7/8".
2. IF DESIRED, A 2" X 6" PIECE CAN BE SUBSTITUTED FOR EACH SET OF TWO (SIDE BY SIDE) 2" X 4" PALLET DUNNAGE PIECES. EACH 2" X 6" PIECE WILL BE NAILED TO THE PALLET W/6-8d NAILS.



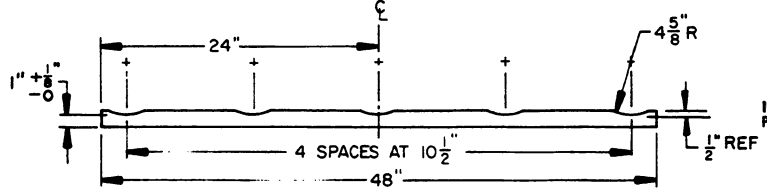
UNIT C (ROUTED DUNNAGE)



STRAPPING BOARD 2" X 4" MATERIAL (2 REQD)

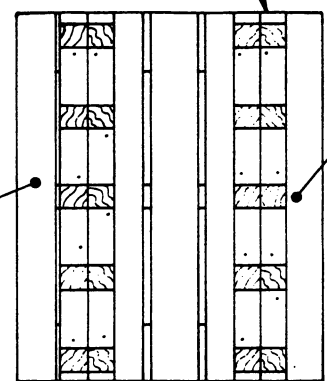


INTERMEDIATE DUNNAGE 3" X 4" MATERIAL (6 REQD)

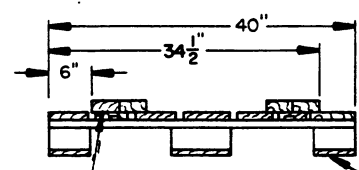


PALLET DUNNAGE
2" X 4" MATERIAL (4 REQD)

PALLET DUNNAGE. NAIL EACH PIECE TO THE PALLET DECK BOARDS W/4-8d NAILS. DO NOT NAIL THRU THE STRAP SLOTS.



PLAN VIEW



INDICATES PALLET DUNNAGE. INDICATES PALLET.

ELEVATION VIEW

PALLET DUNNAGE LOCATION

BILL OF MATERIAL			
LUMBER	NO. REQD	LINEAR FEET	BOARD FEET
1" X 6" X 48"	1	4.00	2.00
2" X 4" X 41"	4	13.67	9.11
2" X 4" X 46"	2	7.67	5.11
2" X 4" X 48"	4	16.00	10.67
3" X 4" X 52-1/2"	6	26.25	26.25
NAILS		NO. REQD	POUNDS
8d (2-1/2")		20	0.21
PALLET, 40" X 48"		1 REQD	80 LBS
STEEL STRAPPING, 1-1/4" X .031" OR .035"		64.17 REQD	9.17 LBS
SEAL FOR 1-1/4" STRAP		4 REQD	NIL
STAPLE, 1-17/32" X 3/4"		18 REQD	NIL

UNIT DATA

WEIGHT

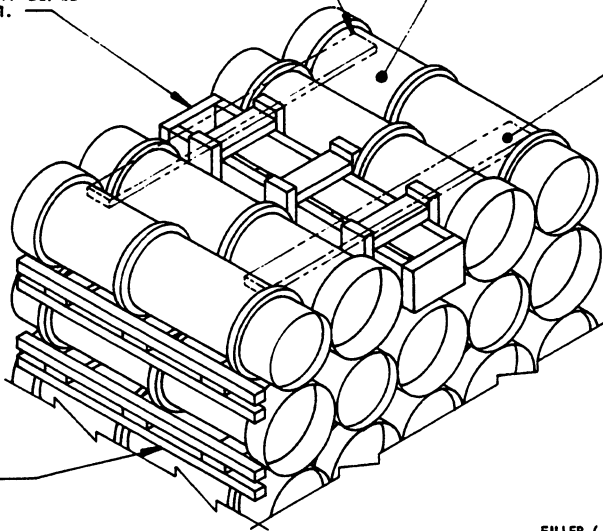
CUBE	60.1 CUBIC FEET (APPROX)	
CONTAINER, PA66 SERIES	20 EA @ 77 LBS	1,540 LBS (APPROX)
DUNNAGE		116 LBS
PALLET		80 LBS
TOTAL WEIGHT		1,736 LBS (APPROX)

INDICATES A STRAPPING BOARD.

FILLER (1 REQD). SEE THE "FILLER A" DETAIL ON PAGE 11.

INDICATES THE PA66 SERIES CONTAINER.

ALL STRAPPING HAS BEEN OMITTED FOR CLARITY PURPOSES.



INDICATES AN INTERMEDIATE DUNNAGE ASSEMBLY.

DETAIL A

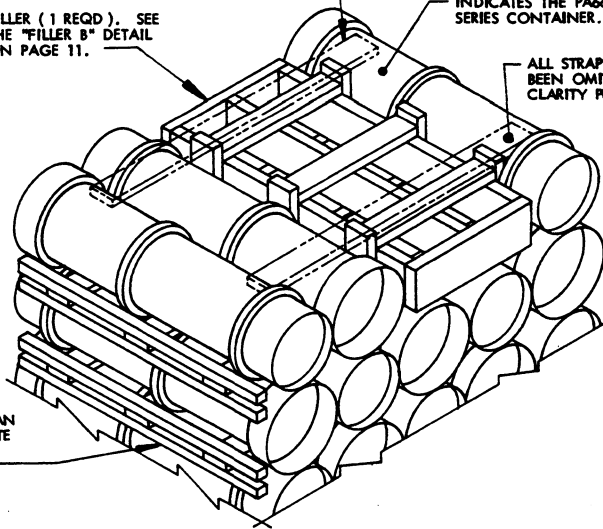
THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS ONE CONTAINER IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.

INDICATES A STRAPPING BOARD.

FILLER (1 REQD). SEE THE "FILLER B" DETAIL ON PAGE 11.

INDICATES THE PA66 SERIES CONTAINER.

ALL STRAPPING HAS BEEN OMITTED FOR CLARITY PURPOSES.



INDICATES AN INTERMEDIATE DUNNAGE ASSEMBLY.

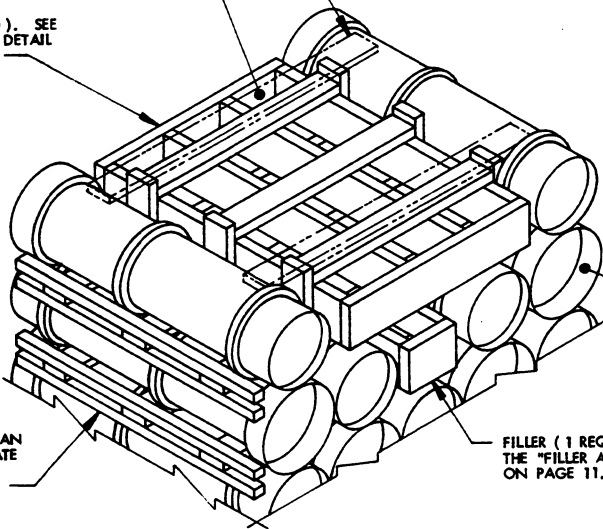
DETAIL B

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS TWO CONTAINERS IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.

INDICATES A STRAPPING BOARD.

ALL STRAPPING HAS BEEN OMITTED FOR CLARITY PURPOSES.

FILLER (1 REQD). SEE THE "FILLER C" DETAIL ON PAGE 11.



INDICATES THE PA66 SERIES CONTAINER.

FILLER (1 REQD). SEE THE "FILLER A" DETAIL ON PAGE 11.

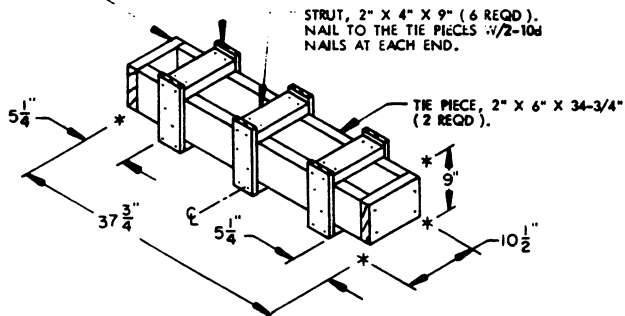
INDICATES AN INTERMEDIATE DUNNAGE ASSEMBLY.

DETAIL C

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS FOUR CONTAINERS IS TO BE UNITIZED. WHEN FIVE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, A COMPLETE LAYER OF CONTAINERS MUST BE OMITTED. A COMBINATION OF FILLERS OR ONE OF THE FILLERS DEPICTED ON PAGE 11 MAY BE USED WHEN FOUR OR LESS CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT. ALL FILLER ASSEMBLIES MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OR LAYERS OF A PALLET UNIT.

END BEARING PIECE, 2" X 6" X 9" (2 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH END.

FILL PIECE, 1" X 4" X 9" (6 REQD). NAIL TO THE TIE PIECE W/2-6d NAILS AND TO THE STRUTS W/2-6d NAILS AT EACH END.



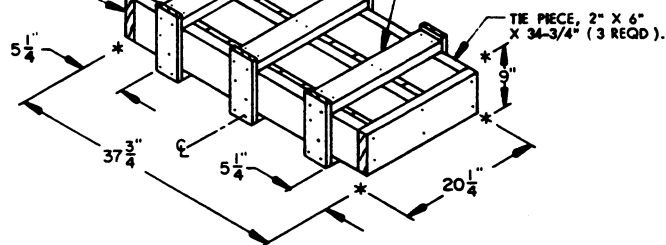
FILLER A

THIS FILLER IS TO BE USED WHEN ONE CONTAINER IS TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.

FILL PIECE, 1" X 4" X 9" (6 REQD). NAIL TO THE TIE PIECE W/2-6d NAILS AND TO THE STRUTS W/2-6d NAILS AT EACH END.

END BEARING PIECE, 2" X 6" X 18-3/4" (2 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.

STRUT, 2" X 4" X 18-3/4" (6 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.



FILLER B

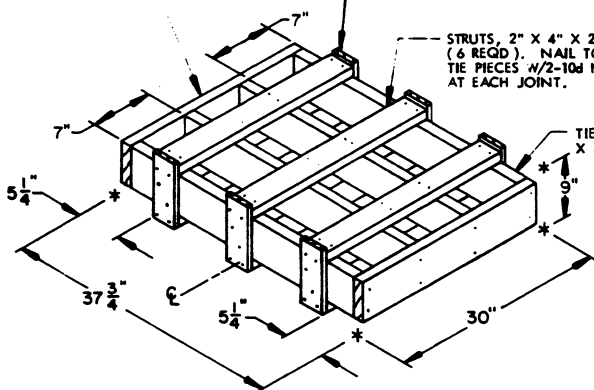
THIS FILLER IS TO BE USED WHEN TWO CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.

END BEARING PIECE, 2" X 6" X 28-1/2" (2 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.

FILL PIECE, 1" X 4" X 9" (6 REQD). NAIL TO THE TIE PIECE W/2-6d NAILS AND TO THE STRUTS W/2-6d NAILS AT EACH END.

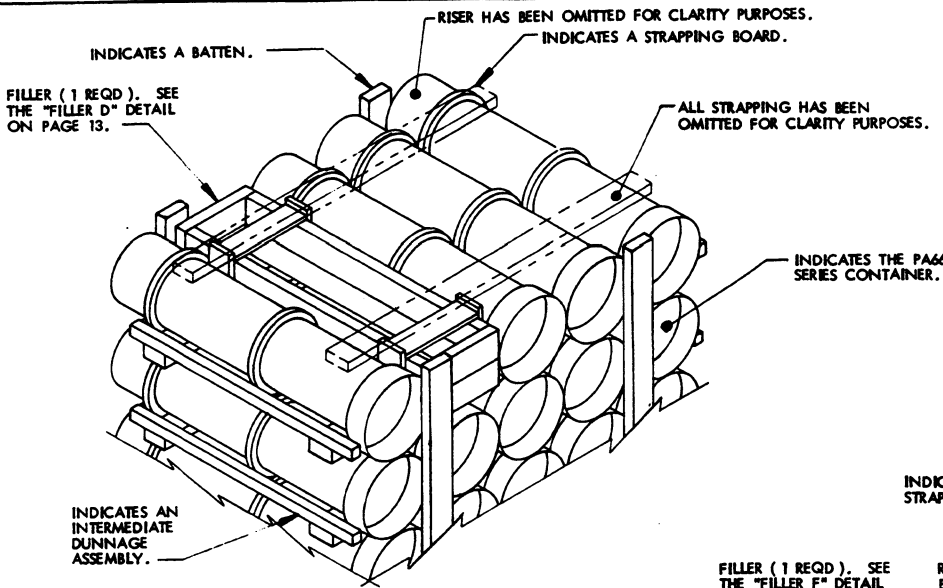
STRUTS, 2" X 4" X 28-1/2" (6 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.

TIE PIECE, 2" X 6" X 34-3/4" (4 REQD).



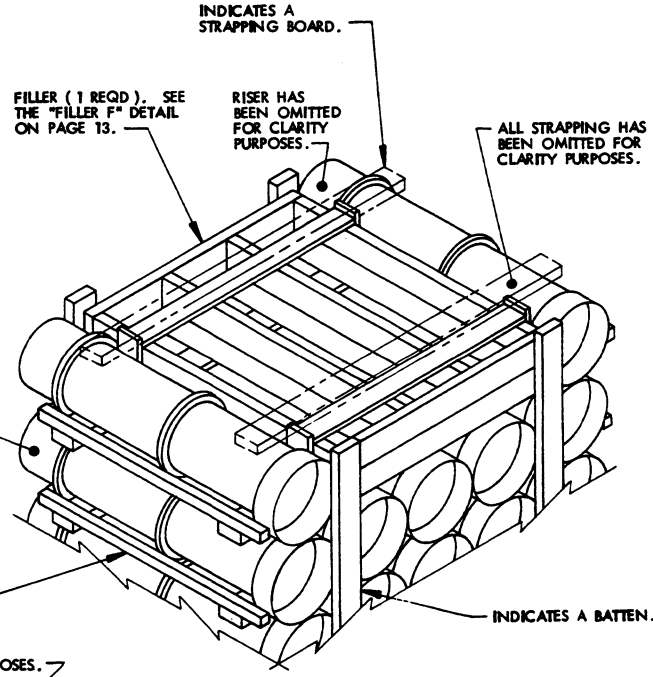
FILLER C

THIS FILLER IS TO BE USED WHEN THREE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.



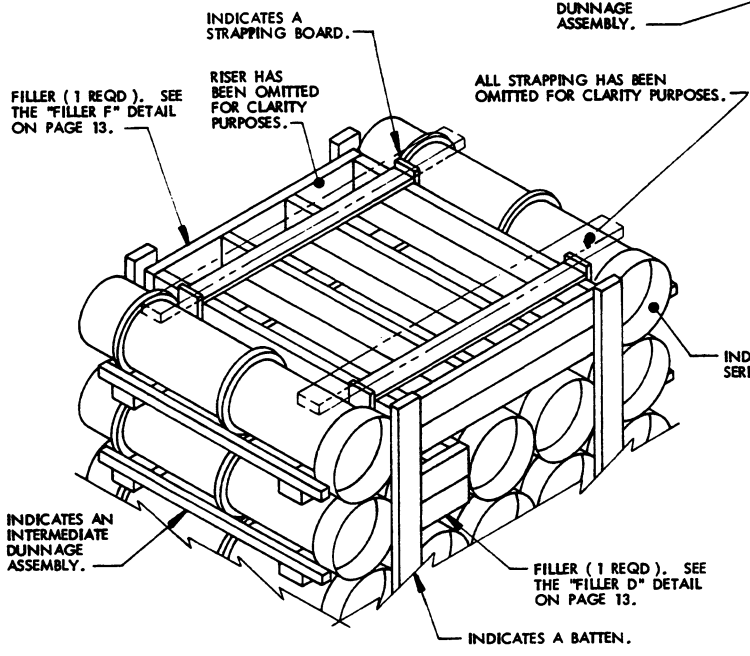
DETAIL D

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS ONE CONTAINER IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.



DETAIL E

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS THREE CONTAINERS IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.

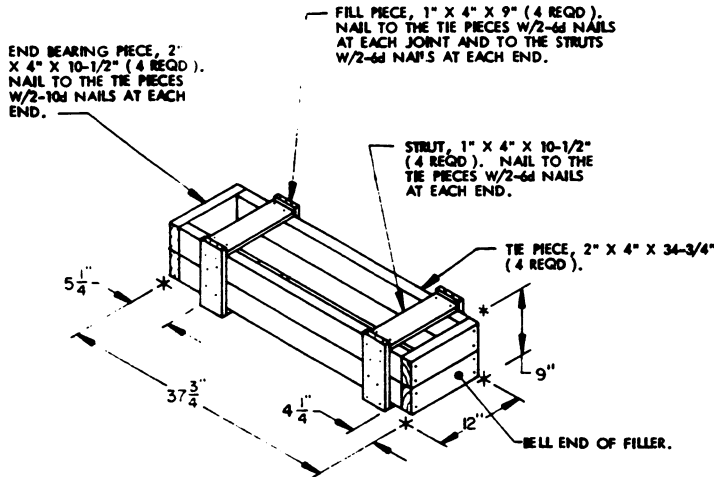


DETAIL F

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS FOUR CONTAINERS IS TO BE UNITIZED. WHEN FIVE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, A COMPLETE LAYER OF CONTAINERS MUST BE OMITTED. A COMBINATION OF FILLERS OR ONE OF THE FILLERS DEPICTED ON PAGE 13 MAY BE USED WHEN FOUR OR LESS CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT. ALL FILLER ASSEMBLIES MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OR LAYERS OF A PALLET UNIT.

SPECIAL NOTE:

1. WHEN USING FILLER ASSEMBLIES FOR OMITTED CONTAINERS IN A PALLET UNIT, THE LENGTH OF THE BATTENS MUST BE ADJUSTED SO THAT TIGHTENING OF THE TIEDOWN STRAPS DOES NOT DAMAGE (I.E., BREAK OR SPLIT) THE ENDS OF THE BATTENS.



END BEARING PIECE, 2" X 4" X 10-1/2" (4 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH END.

FILL PIECE, 1" X 4" X 9" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH JOINT AND TO THE STRUTS W/2-6d NAILS AT EACH END.

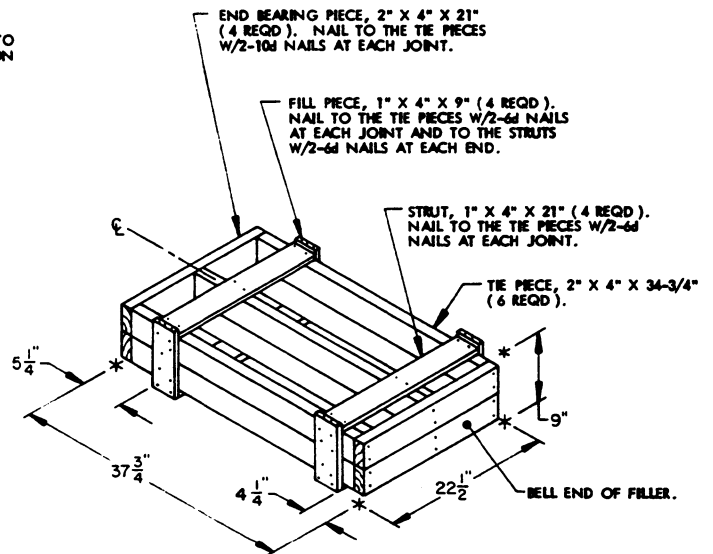
STRUT, 1" X 4" X 10-1/2" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH END.

TIE PIECE, 2" X 4" X 34-3/4" (4 REQD).

BELL END OF FILLER.

FILLER D

THIS FILLER IS TO BE USED WHEN ONE CONTAINER IS TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.



END BEARING PIECE, 2" X 4" X 21" (4 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.

FILL PIECE, 1" X 4" X 9" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH JOINT AND TO THE STRUTS W/2-6d NAILS AT EACH END.

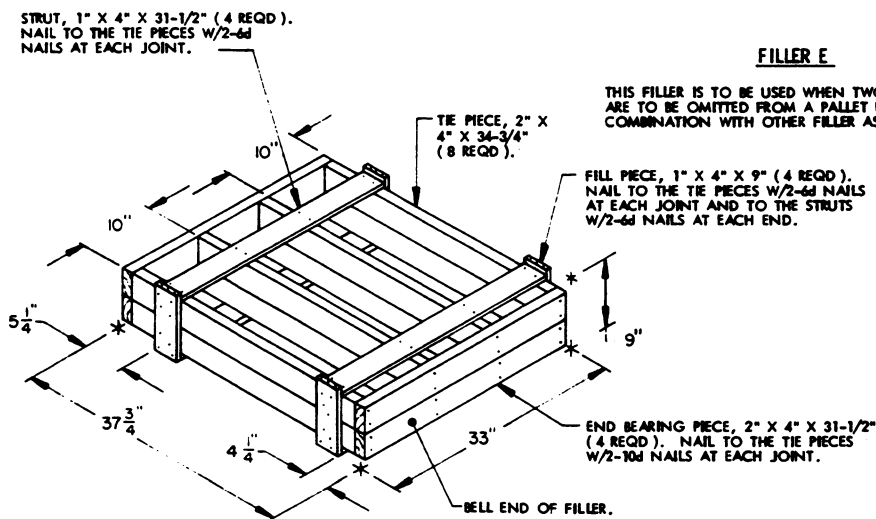
STRUT, 1" X 4" X 21" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH JOINT.

TIE PIECE, 2" X 4" X 34-3/4" (6 REQD).

BELL END OF FILLER.

FILLER E

THIS FILLER IS TO BE USED WHEN TWO CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.



STRUT, 1" X 4" X 31-1/2" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH JOINT.

TIE PIECE, 2" X 4" X 34-3/4" (8 REQD).

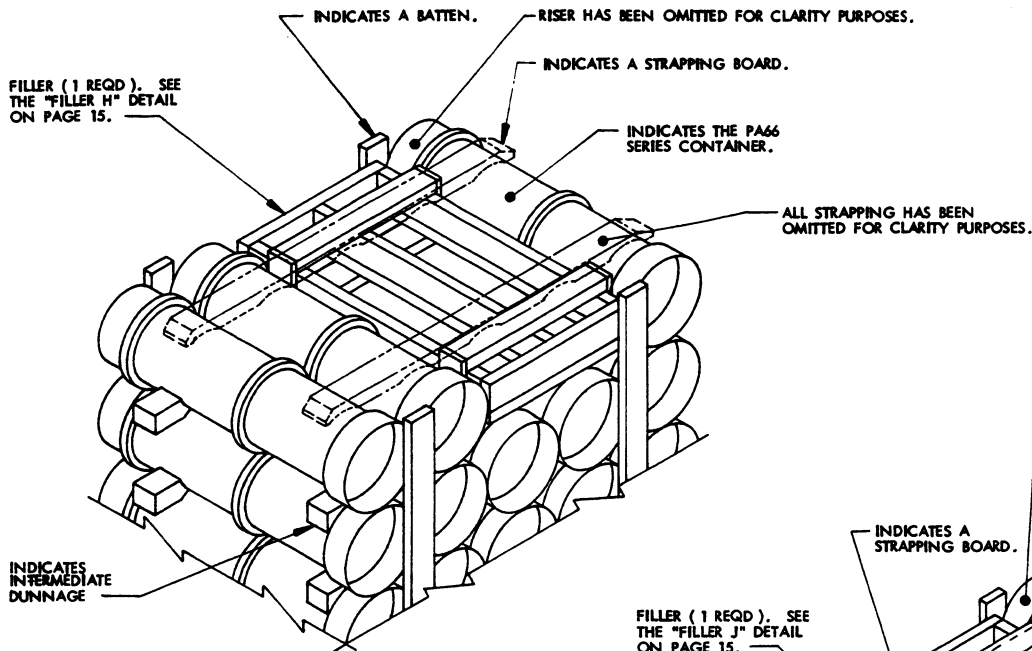
FILL PIECE, 1" X 4" X 9" (4 REQD). NAIL TO THE TIE PIECES W/2-6d NAILS AT EACH JOINT AND TO THE STRUTS W/2-6d NAILS AT EACH END.

END BEARING PIECE, 2" X 4" X 31-1/2" (4 REQD). NAIL TO THE TIE PIECES W/2-10d NAILS AT EACH JOINT.

BELL END OF FILLER.

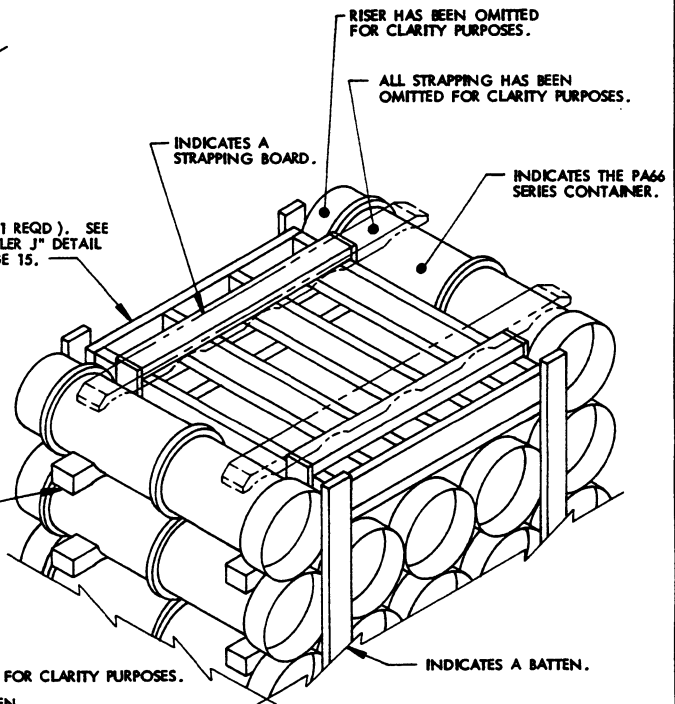
FILLER F

THIS FILLER IS TO BE USED WHEN THREE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION WITH OTHER FILLER ASSEMBLIES.



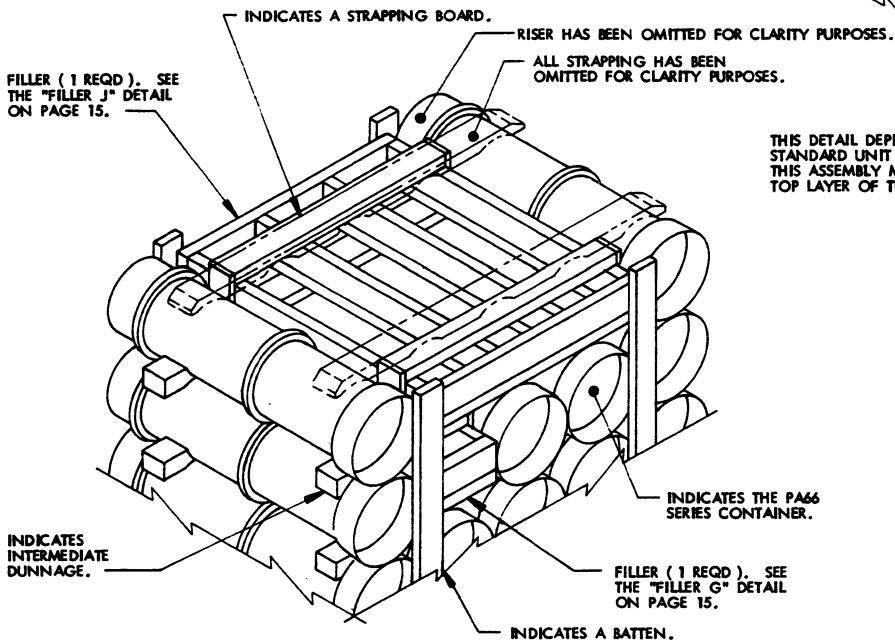
DETAIL G

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS TWO CONTAINERS IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.



DETAIL H

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS THREE CONTAINERS IS TO BE UNITIZED. THIS ASSEMBLY MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OF THE PALLET UNIT.



DETAIL J

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS FOUR CONTAINERS IS TO BE UNITIZED. WHEN FIVE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, A COMPLETE LAYER OF CONTAINERS MUST BE OMITTED. A COMBINATION OF FILLERS OR ONE OF THE FILLERS DEPICTED ON PAGE 15 MAY BE USED WHEN FOUR OR LESS CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT. ALL FILLER ASSEMBLIES MUST BE INSTALLED IN THE MIDDLE OF THE TOP LAYER OR LAYERS OF A PALLET UNIT.

SPECIAL NOTE:

1. WHEN USING FILLER ASSEMBLIES FOR OMITTED CONTAINERS IN A PALLET UNIT, THE LENGTH OF THE BATTENS MUST BE ADJUSTED SO THAT TIGHTENING OF THE TIEDOWN STRAPS DOES NOT DAMAGE (I.E., BREAK OR SPLIT) THE ENDS OF THE BATTENS.

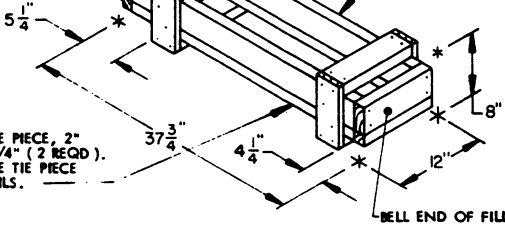
END BEARING PIECE, 2" X 4" X 10-1/2"
(2 REQD.). NAIL TO THE TIE PIECES
W/2-10d NAILS AT EACH END.

BOTTOM END BEARING PIECE,
2" X 2" X 10-1/2" (2 REQD.).
NAIL TO THE END BEARING
PIECE W/3-10d NAILS.

STRUT, 2" X 4" X 10-1/2"
(4 REQD.). NAIL TO THE
TIE PIECES AND BOTTOM
TIE PIECES W/2-10d NAILS
AT EACH END.

FILL PIECE, 1" X 4" X 8" (4 REQD.).
NAIL TO THE TIE PIECE W/2-6d NAILS
AND TO THE STRUTS W/2-6d NAILS
AT EACH END.

TIE PIECE, 2" X 4" X 34-3/4"
(2 REQD.).



BOTTOM TIE PIECE, 2"
X 2" X 34-3/4" (2 REQD.).
NAIL TO THE TIE PIECE
W/4-10d NAILS.

BELL END OF FILLER.

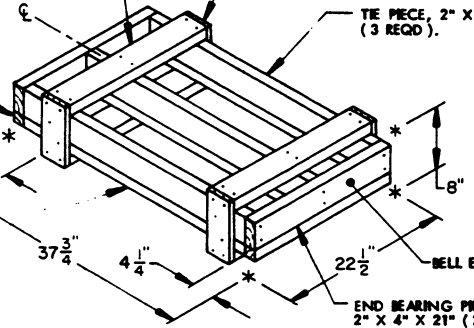
FILLER G

THIS FILLER IS TO BE USED WHEN ONE CONTAINER IS TO
BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION
WITH OTHER FILLER ASSEMBLIES.

STRUT, 2" X 4" X 21"
(4 REQD.). NAIL TO
THE TIE PIECES AND
BOTTOM TIE PIECES
W/2-10d NAILS AT
EACH JOINT.

FILL PIECE, 1" X 4" X 8"
(4 REQD.). NAIL TO THE
TIE PIECE W/2-6d NAILS AND
TO THE STRUTS W/2-6d NAILS
AT EACH END.

BOTTOM END BEARING PIECE,
2" X 2" X 21" (2 REQD.).
NAIL TO THE END BEARING
PIECE W/3-10d NAILS.



BOTTOM TIE PIECE, 2" X
2" X 34-3/4" (3 REQD.).
NAIL TO THE TIE PIECE
W/4-10d NAILS.

BELL END OF FILLER.

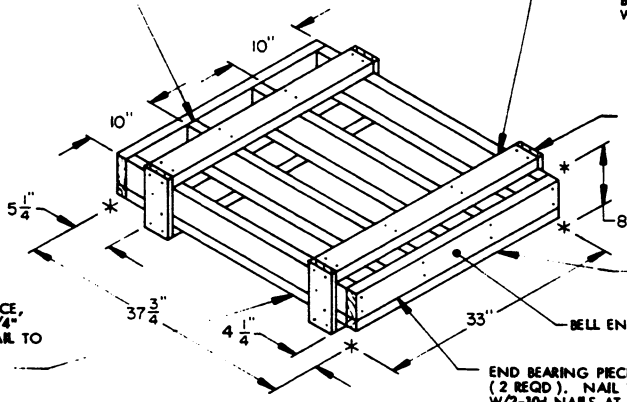
END BEARING PIECE,
2" X 4" X 21" (2 REQD.).
NAIL TO THE TIE PIECES
W/2-10d NAILS AT EACH
JOINT.

FILLER H

THIS FILLER IS TO BE USED WHEN TWO CONTAINERS ARE TO
BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION
WITH OTHER FILLER ASSEMBLIES.

TIE PIECE, 2" X 4" X 34-3/4"
(4 REQD.).

STRUT, 2" X 4" X 31-1/2"
(4 REQD.). NAIL TO
THE TIE PIECES AND BOTTOM
TIE PIECES W/2-10d NAILS
AT EACH JOINT.



FILL PIECE, 1" X 4" X 8" (4 REQD.).
NAIL TO THE TIE PIECE W/2-6d NAILS
AND TO THE STRUTS W/2-6d NAILS
AT EACH END.

BOTTOM END BEARING PIECE, 2" X 2" X 31-1/2"
(2 REQD.). NAIL TO THE END BEARING PIECE W/4-10d
NAILS.

BELL END OF FILLER.

END BEARING PIECE, 2" X 4" X 31-1/2"
(2 REQD.). NAIL TO THE TIE PIECES
W/2-10d NAILS AT EACH JOINT.

FILLER J

THIS FILLER IS TO BE USED WHEN THREE CONTAINERS ARE TO
BE OMITTED FROM A PALLET UNIT, OR IN COMBINATION
WITH OTHER FILLER ASSEMBLIES.

