APPENDIX 12

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

PA75 SERIES CONTAINERS

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PALLET UNIT DATA						
ITEMS IN	ITEMS INCLUDED HAZARD CLASSIFICATION (WEIGHT
NSN	DODIC	DOT CLASS	CG CLASS	QD CLASS	COMP GROUP	(LBS)
NONE ASS IGNED						1,238 TO 1,260

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

THIS DRAWING SUPERSEDES PART OF DRAWING 19-48-4042-1-2-5-11-14PM1000, DATED 8 FEBRUARY 1965, AND REVISION 1, THERETO, DATED 29 AUGUST 1969.

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

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GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZING PROCEDURES DRAWING 19-48-4042A-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 SPECIFED ITEM AND METHOD OF UNITIZATION.
- C. OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX SHALL BE A COMPLISHED IN A CORDANCE 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 PA75 SERIES CONTAINER. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN THOSE SHOWN.
- G. FOR DETAILS OF THE PA75 SERIES CONTAINER, SEE PICATINNY ARSENAL DRAWING NO. 9293460.

CONTAINER DIMENSIONS ----- 35-1/4" LONG BY 7-25/32" DIAMETER. CONTAINER CUBE ------ 1.3 CUBIC FEET. CONTAINER WEIGHT (WITH CHARGE) ------ 37 POUNDS (APPROX).

- H. THE SPECIFIED UNITIZING PROCEDURES SHOWN HEREIN DEPICT THREE DIFFERENT METHODS FOR UNITIZING THE PA75 SERIES CONTAINER;
 - 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.
 - 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.

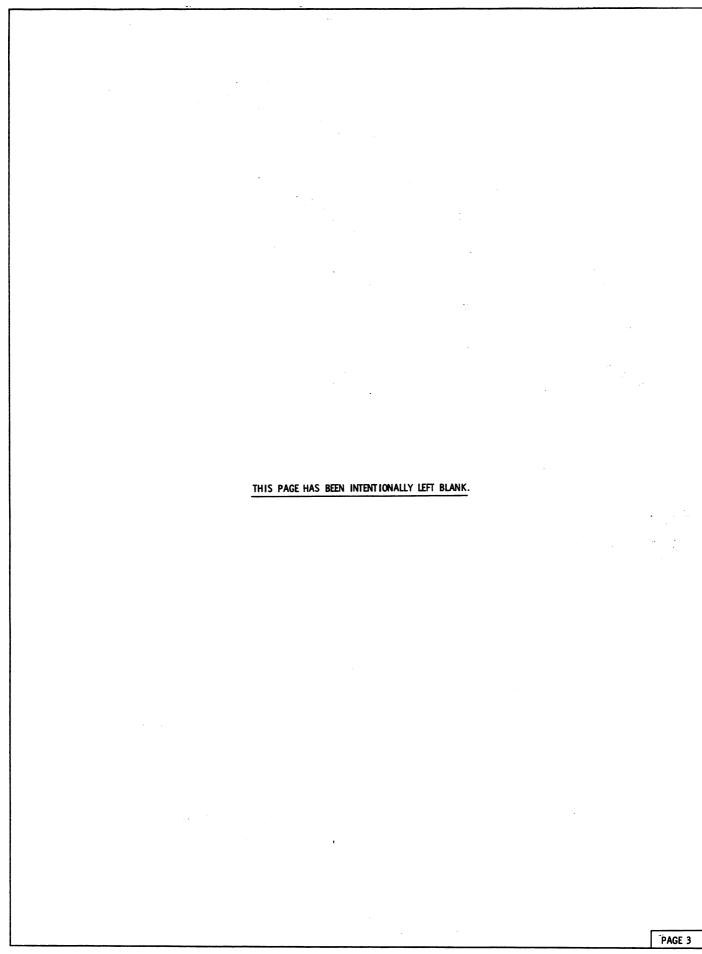
ALTHOUGH UNIT "A" DEPICTS THE PREFERRED METHOD OF UNITIZING THE PA75 SERIES CONTAINER, ALL THREE METHODS ARE APPROVED FOR USE.

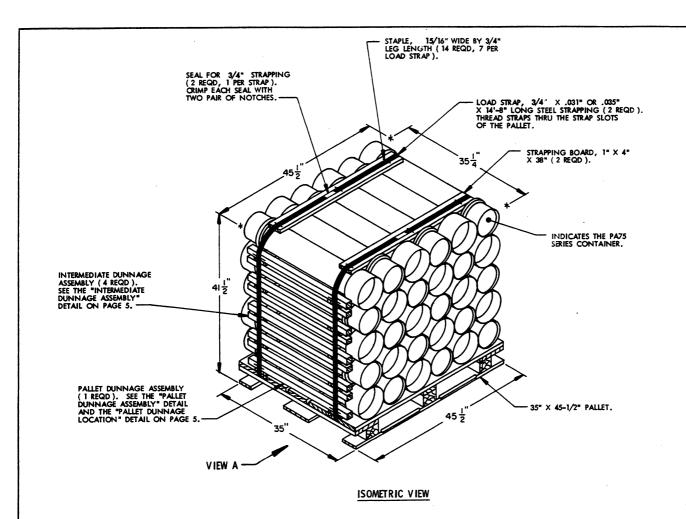
J. IF DEEMED MORE ECONOMICAL FOR SHIPPING AND STORAGE BY THE RESPONSIBLE COMMAND, THE UNITS DEPICTED IN THE FOLLOWING PAGES MAY HAVE ONE COMPLETE LAYER OF CONTAINERS EITHER ADDED OR DELETED, WHICHEVER IS APPLICABLE. FOR FUTHER UNITIZATION GUIDANCE, SEE SPECIAL NOTE 1 ON PAGES 4, 6 AND 8.

REVISION

REVISION NO. 1, DATED JULY 1986, CONSISTS OF:

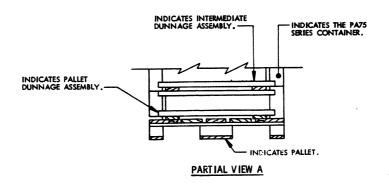
CHANGING 1-1/4" STRAPPING TO 3/4" STRAPPING.



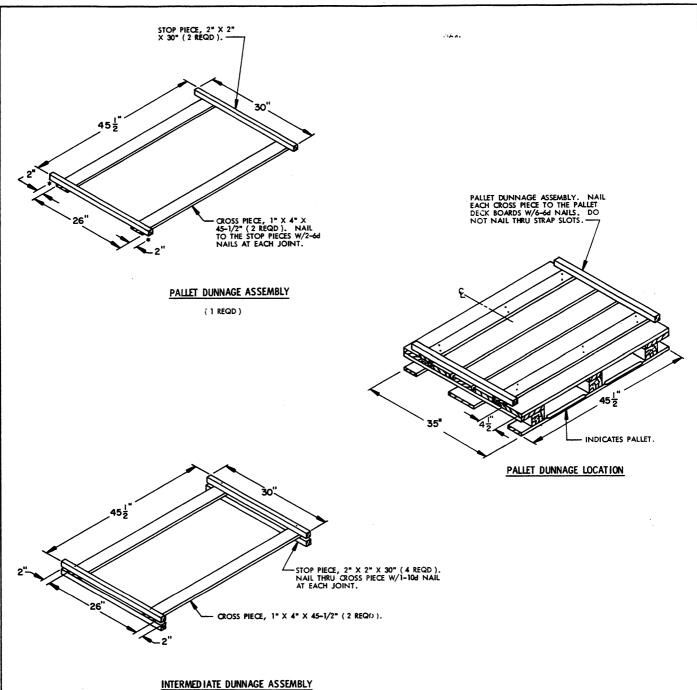


SPECIAL NOTE:

1. THE UNIT DEPICTED ABOVE MAY BE INCREASED BY ONE COMPLETE LAYER OF CONTAINERS BY THE ADDITION OF ONE INTERMEDIATE DUNNAGE ASSEMBLY AND SIX CONTAINERS, AND BY INCREASING THE STRAP LENGTHS APPROPRIATELY. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 48-1/2".



UNIT A (ALTERNATED CONTAINERS)



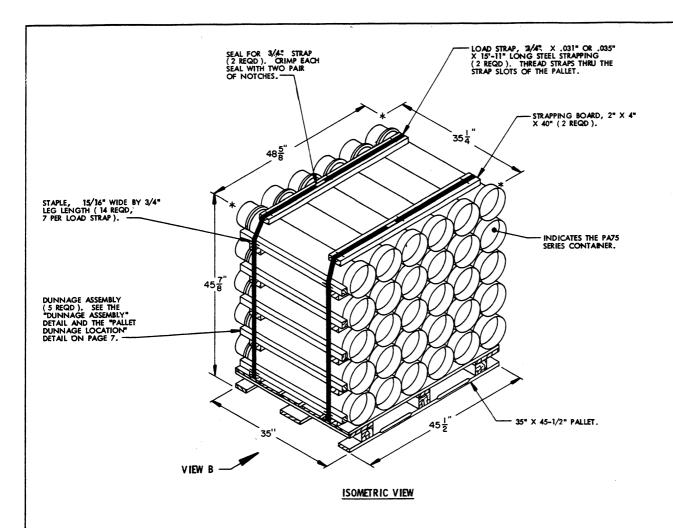
(4 REQD)

BILL OF MATERIAL						
LUMBER	NO. REQD	LINEAR FEET	BOARD FEET			
1" X 4" X 38" 1" X 4" X 45-1/2" 2" X 2" X 30"	2 10 18	6.33 2.11 37.92 12.64 45.00 15.00				
NAILS	NO. R	EQD	POUNDS			
6d (2") 10d (3")	20 32		0.12 0.49			
10d (3") 32 0.49						

UNIT DATA	WEIGHT
CUBE 38.5 CUBIC FEET (APPROX) CONTAINER, PA75 SERIES 30 EA @ 37 LBS DUNNAGE PALLET	1,110 LBS (APPROX) 63 LBS 65 LBS
TOTAL WEIGHT	1,238 LBS (APPROX)

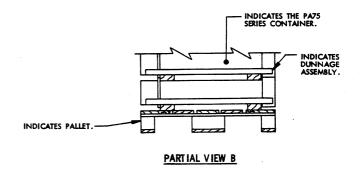
UNIT A (ALTERNATED CONTAINERS)

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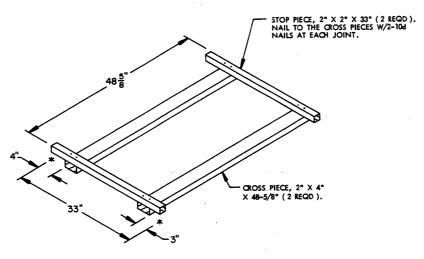


SPECIAL NOTE:

 THE UNIT DEPICTED ABOVE MAY BE REDUCED BY ONE COMPLETE LAYER OF CONTAINERS BY THE DELETION OF ONE DUNNAGE ASSEMBLY AND SIX CONTAINERS, AND BY DECREASING STRAP LENGTHS APPROPRIATELY. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 38-1/8".

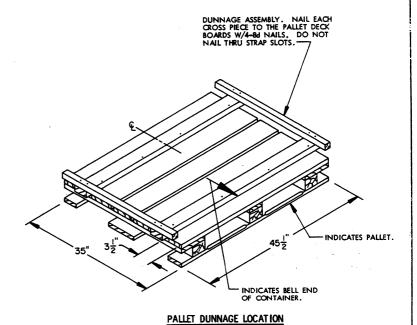


UNIT B (FLAT DUNNAGE)



DUNNAGE ASSEMBLY

(5 REQD)



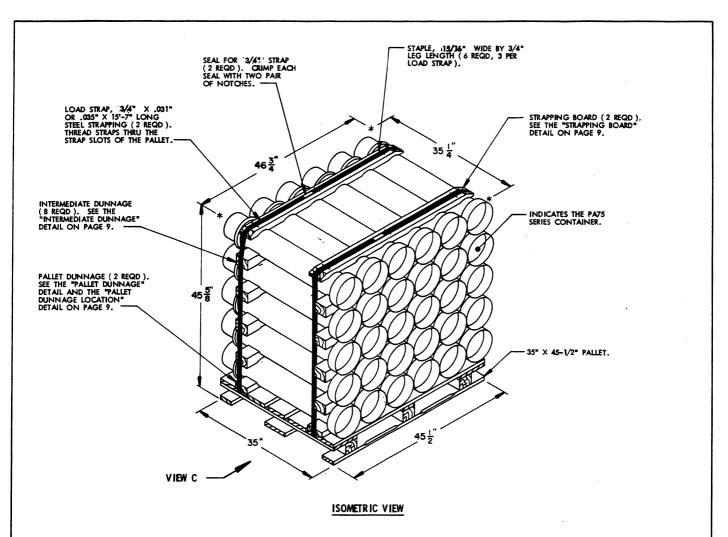
		BILL OF	MATERIAL		
LUMBER	NO. REQD LINE VE FEE		T	BOARD FEET	
2" X 2" X 33" 2" X 4" X 40" 2" X 4" X 48-5/8"		10 2 10	27.50 6.67 40.52		9.17 4.45 ?7.01
NAILS	NO. REQD		REQD		POUNDS
8d (2-1/2") 8 10d (3") 8			0.08 0.62		
					500 (51)

PALLET, 35" X 45-1/2" ________ 1 REQD — 65 LBS
STELL STRAPPING, 3/4" X :031" OR :035" — 31.83" REQD — 2.27 LBS
SEAL FOR 3/4" STRAPPING _______ 14 REQD — NIL
STAPLE, 15/16" X 3/4" ______ 14 REQD — NIL

UNIT DATA	VEIGHT
CUBE	1,110 LBS (APPROX) 85 LBS 65 LBS
TOTAL WEIGHT	1,260 LBS (APPROX)

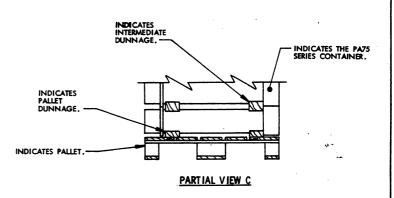
UNIT B (FLAT DUNNAGE)

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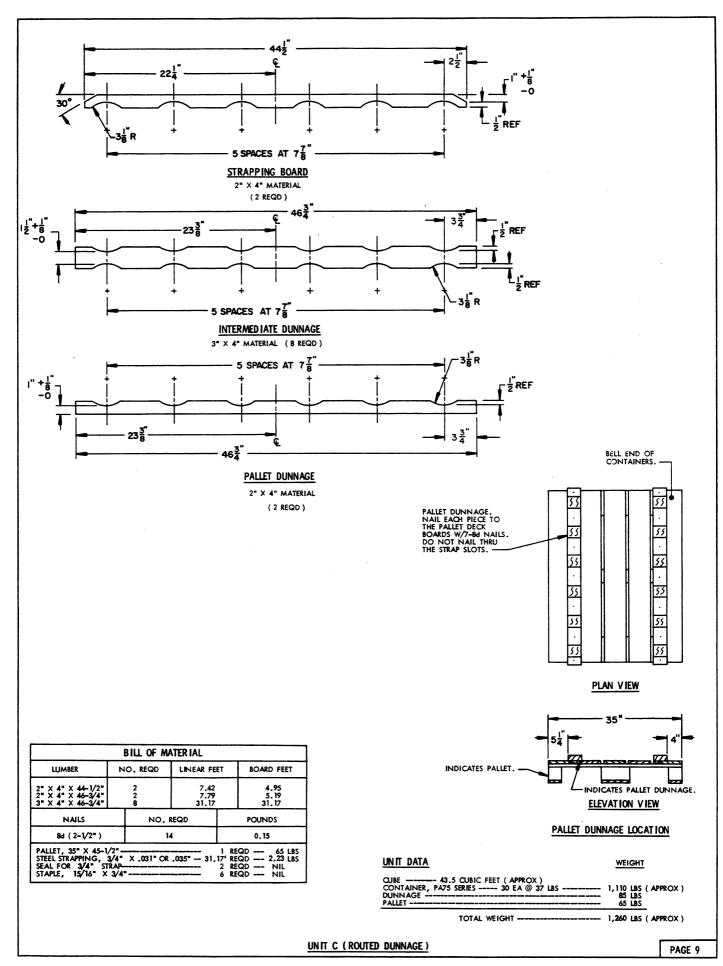


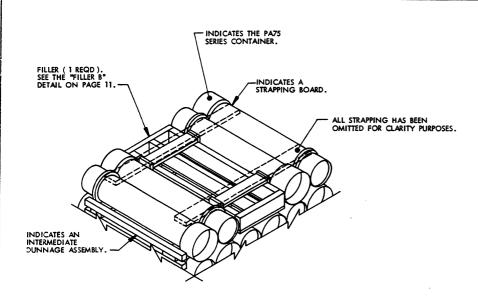
SPECIAL NOTE:

1. THE UNIT DEPICTED ABOVE MAY BE REDUCED BY ONE COMPLETE LAYER OF CONTAINERS BY THE DELETION OF TWO INTERMEDIATE DUNNAGE PRICES AND SIX CONTAINERS, AND BY DECREASING STRAP LENGTHS APPROPRIATELY. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 37-3/4".



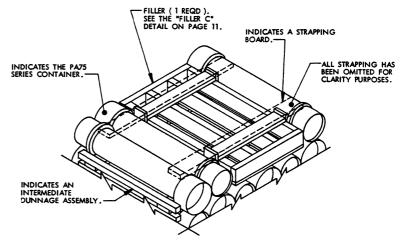
UNIT C (ROUTED DUNNAGE)



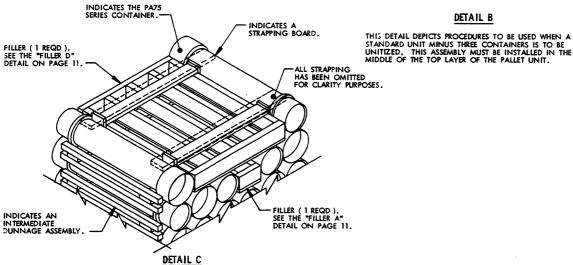


DETAIL A

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.



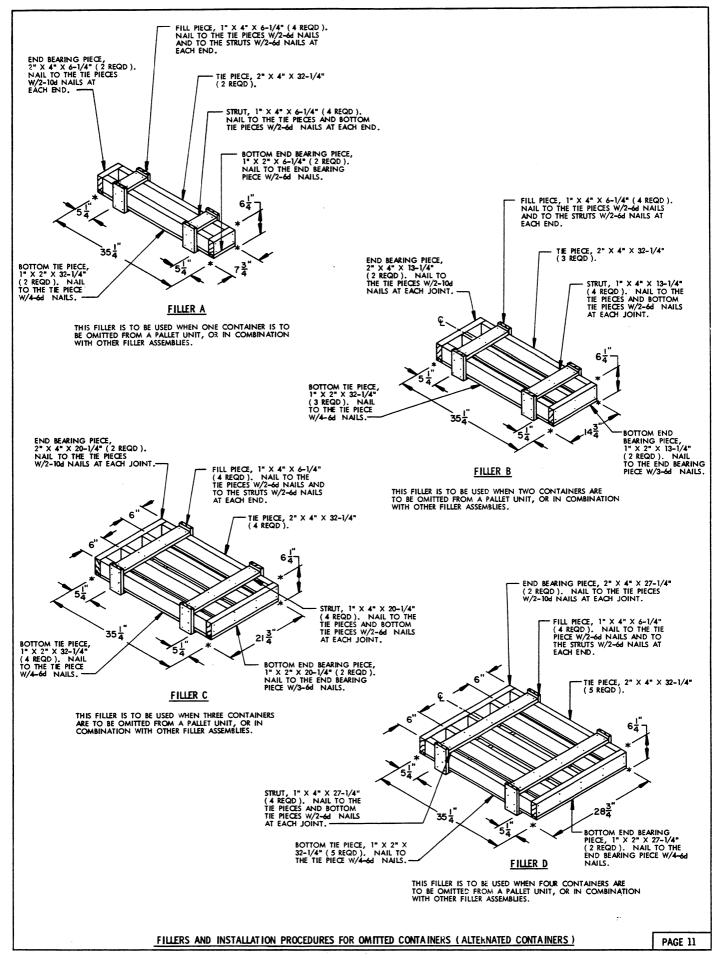
DETAIL B

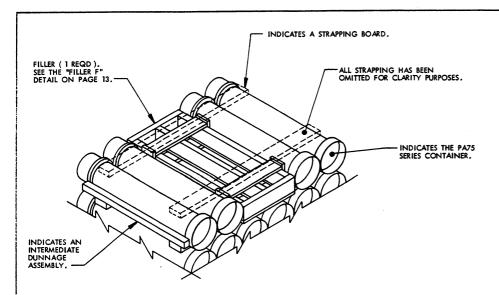


THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS FIVE CONTAINERS IS TO BE UNITIZED. WHEN SIX CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, A COMPLETE LAYER OF CONTAINERS MUST BE OMITTED. A COMBINATION OF FILLERS MUST BE USED WHEN FIVE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT. 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.

FILLERS AND INSTALLATION PROCEDURES FOR OMITTED CONTAINERS (ALTERNATED CONTAINERS)

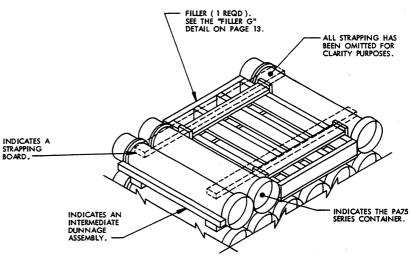
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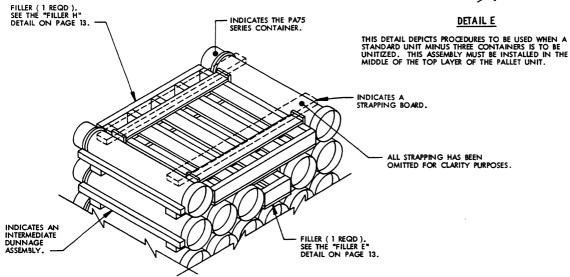




DETAIL D

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 F

THIS DETAIL DEPICTS PROCEDURES TO BE USED WHEN A STANDARD UNIT MINUS FIVE CONTAINERS IS TO BE UNITIZIED. WHEN SIX CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT, A COMBINATION OF FILLERS MUST BE USED WHEN FIVE CONTAINERS ARE TO BE OMITTED FROM A PALLET UNIT. 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.

FILLERS AND INSTALLATION PROCEDURES FOR OMITTED CONTAINERS (FLAT DUNNAGE UNITS)

