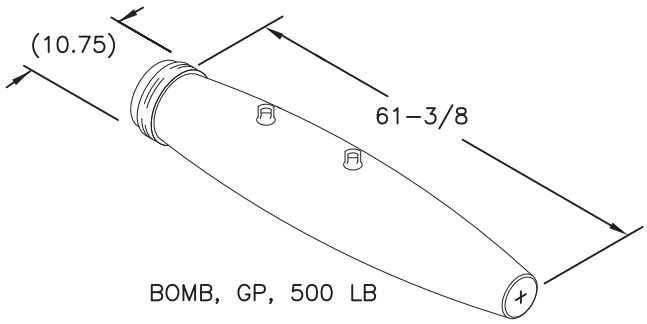
UNIT LOAD FOR UNDERWAY REPLENISHMENT

BOMB, GENERAL PURPOSE: 500 LB. MK 82 SERIES, BLU-111 SERIES, BLU-126 SERIES, BLU-129 SERIES, BDU-45 SERIES AND BDU-50 SERIES ON MHU-122 SERIES PALLET (ADL 623AS100)

UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD..... 6
GROSS WEIGHT OF ONE BOMB (APPROX.)..... 495 LBS
WEIGHT OF BOMB PALLET..... 170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)..... 9 LBS
GROSS WEIGHT OF UNIT LOAD (APPROX.)..... 3149 LBS △
CUBE (NON–THERMALLY PROTECTED BOMB)..... 35.4 CU–FT
CUBE (THERMALLY PROTECTED BOMB)..... 36.1 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.

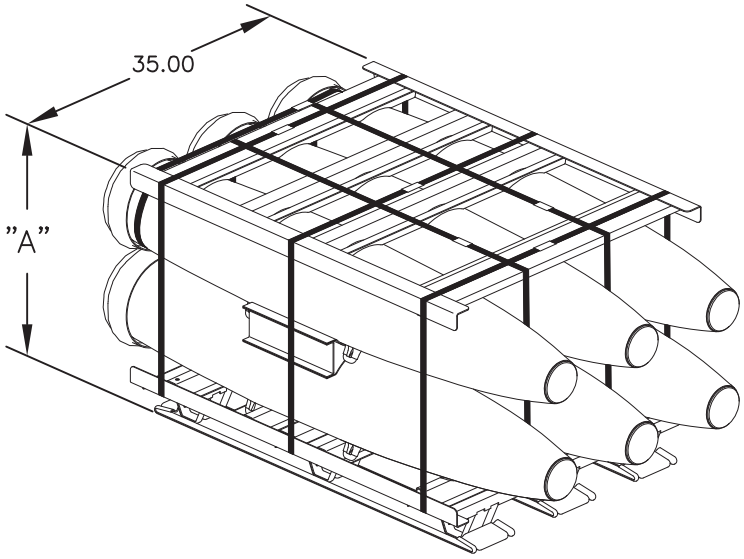


BOMB, GP, 500 LB

CAUTION

DO NOT MIX THERMALLY PROTECTED (TP), THERMAL PROTECTION REMOVED (TPR) AND NON–THERMALLY PROTECTED (NTP) BOMBS IN THE SAME UNIT LOAD.

		"A" HEIGHT
4, 5, OR 6 BOMBS	THERMALLY PROTECTED BOMB OR THERMAL PROTECTION REMOVED	29
	NON–THERMALLY PROTECTED BOMB	28–1/2
1, 2, OR 3 BOMBS	THERMALLY PROTECTED BOMB OR THERMAL PROTECTION REMOVED	17–1/2
	NON–THERMALLY PROTECTED BOMB	17



NOTES:

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. SEE SW020–AC–SAF–010 FOR THE FOLLOWING INFORMATION:
   A. CROSS REFERENCE TO ASSOCIATED TRUCK LOADING, CONTAINER LOADING & CAR LOADING MILITARY STANDARDS.
   B. HAZARD CLASSIFICATION.
3. DO NOT STACK MORE THAN 6 UNIT LOADS HIGH IN STORAGE.
4. FOR UNIT LOAD QUALIFICATION, SEE PHST CENTER TEST REPORT NO. 07030, 07104 AND 11058.

REV.	REVISION DESCRIPTION	DATE	TDA	SYSCOM
B	SEE NSWC IHD DET EARLE ECP I11039	2011/10/20	s/MAB	s/RS
A	SEE NSWC IHD DET EARLE ECP I07054	12/5/07	S/MK/CC	S/AVS
–	ORIGINAL ISSUE, SUPERSEDES MIL-STD-1323-205A & -239B	6/28/04	S/JM	S/RS

TECH DATA MANAGEMENT SUPERVISOR	EP,JN S/JM	2004–06–28
SYSTEMS ENG. SUPERVISOR	S/DLR	2004–06–28

S/ R. SMITH 2004–06–28
NAVSEASYSCOM (BY DIRECTION)

DISTRIBUTION STATEMENT A
APPROVED FOR PUBLIC RELEASE: DISTRIBUTION IS UNLIMITED

REQUIREMENTS FOR CONSTRUCTION OF THIS UNIT LOAD SHALL CONSIST OF THIS DOCUMENT & THE LATEST ISSUE OF MIL-STD-1323 (NAVY)

THIS LOAD IS AUTHORIZED & RELEASED FOR DEPOT HANDLING & STORAGE & FOR SHIPMENT BY COMMON CARRIER

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
ARLINGTON, VA 22242-5160

CAGE CODE 53711

SIZE A

DWG NO. 6214275 REV. B

MATERIAL NOTES:

1. STRAPPING SHALL CONFORM TO ASTM D3953, FLAT, TYPE 1, HEAVY DUTY, FINISH B, GRADE 2. 1–1/4 INCH WIDE STRAPPING MAY BE SUBSTITUTED FOR LATERAL STRAPPING ONLY. LONGITUDINAL STRAPPING MUST BE 3/4 INCH WIDE.
2. SEALS SHALL CONFORM TO ASTM D3953, CLASS H, FINISH B, GRADE 2, STYLE I, II OR IV.
3. EARLY PRODUCTION TOP FRAMES, ITEM 2, HAVE EXTENDED ANGLES (46–3/4 LONG) AS SHOWN IN PHANTOM IN VIEW E–E ON PAGE 9. ALSO SLOTS IN EARLY PRODUCTION TOP FRAMES FOR LONGITUDIDAL STRAPPING ARE NO LONGER USED.
4. UNTIL 2011 BOTTOM FRAMES, ITEM 1, WERE 46–3/4 LONG AS SHOWN IN PHANTOM IN VIEW E–E ON PAGE 9.
5. LATERAL AND TAIL STRAPPING WERE 1 1/4". RESTRAPPING IS NOT REQUIRED UNTIL NEEDED.

REQ	ITEM	DESCRIPTION	MAT'L/DWG	DIMENSIONS
3	5	STRAP SEAL	STEEL	3/4"
1	4	STRAPPING, BOMB	STEEL	3/4 X .031 (OR .035) X 10 FT
2	3	STRAPPING LONGITUDINAL	STEEL	3/4 X .031 (OR .035) X 11 FT
1	2	FRAME, TOP	623AS101	
1	1	FRAME, BOTTOM	623AS103	

LIST OF MATERIALS
FOR UNIT LOADS CONSISTING OF ONE (SINGLE) BOMB

REQ	ITEM	DESCRIPTION	MAT'L/DWG	DIMENSIONS	
5	5	STRAP SEAL	STEEL	3/4"	
3	4	STRAPPING LATERAL	STEEL	3/4 X .031 (OR .035) X 10 FT	(SEE NOTE 5)
2	3	STRAPPING, LONGITUDINAL	STEEL	3/4 X .031 (OR .035) X 11 FT	
1	2	FRAME, TOP	623AS101		
1	1	FRAME, BOTTOM	623AS103		

LIST OF MATERIALS
FOR UNIT LOADS CONSISTING OF TWO OR THREE BOMBS

REQ	ITEM	DESCRIPTION	MAT'L/DWG	DIMENSIONS	
1	7	TAIL STRAPPING *	STEEL	3/4 X .031 (OR .035) X 9 FT	(SEE NOTE 5)
1	6	FRAME, INTERMEDIATE	623AS102		
5	5	STRAP SEAL **	STEEL	3/4"	
3	4	STRAPPING LATERAL	STEEL	3/4 X .031 (OR .035) X 13 FT	(SEE NOTE 5)
2	3	STRAPPING, LONGITUDINAL	STEEL	3/4 X .031 (OR .035) X 13 FT	
1	2	FRAME, TOP	623AS101		
1	1	FRAME, BOTTOM	623AS103		

LIST OF MATERIALS
FOR UNIT LOADS CONSISTING OF FOUR, FIVE, OR SIX BOMBS

* ONLY REQUIRED FOR FULL LOAD (SIX BOMBS).
** QUANTITY OF 6 REQUIRED FOR FULL LOAD (SIX BOMBS).

PALLETIZING PROCEDURE - SIX BOMBS

FOR LIST OF MATERIALS
SEE PAGE 2.

A. USING APPROVED HANDLING EQUIPMENT, PLACE THREE BOMBS IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD ENDS OF THE BOMBS FACE THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE. THE LOCATIONS OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW A–A ON PAGE 4.

C. PLACE INTERMEDIATE FRAME, ITEM 6, ON TOP OF BOMBS AND LOCATE AS SHOWN IN VIEW A–A ON PAGE 4.

D. USING APPROVED HANDLING EQUIPMENT, PLACE UPPER BOMBS ON TOP OF INTERMEDIATE FRAME AS SHOWN IN THE ILLUSTRATION BELOW. THE CENTER BOMB SHALL BE LOADED FIRST. THE NOSE ENDS OF THE UPPER BOMBS SHALL BE EVEN WITH THE NOSE ENDS OF THE LOWER BOMBS AS INDICATED IN VIEW A–A ON PAGE 4. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN VIEW A–A ALTERNATE ON PAGE 5.

E. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN SECTION B–B ALTERNATE ON PAGE 5.

F. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMBS AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW A–A ON PAGE 4 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMBS.

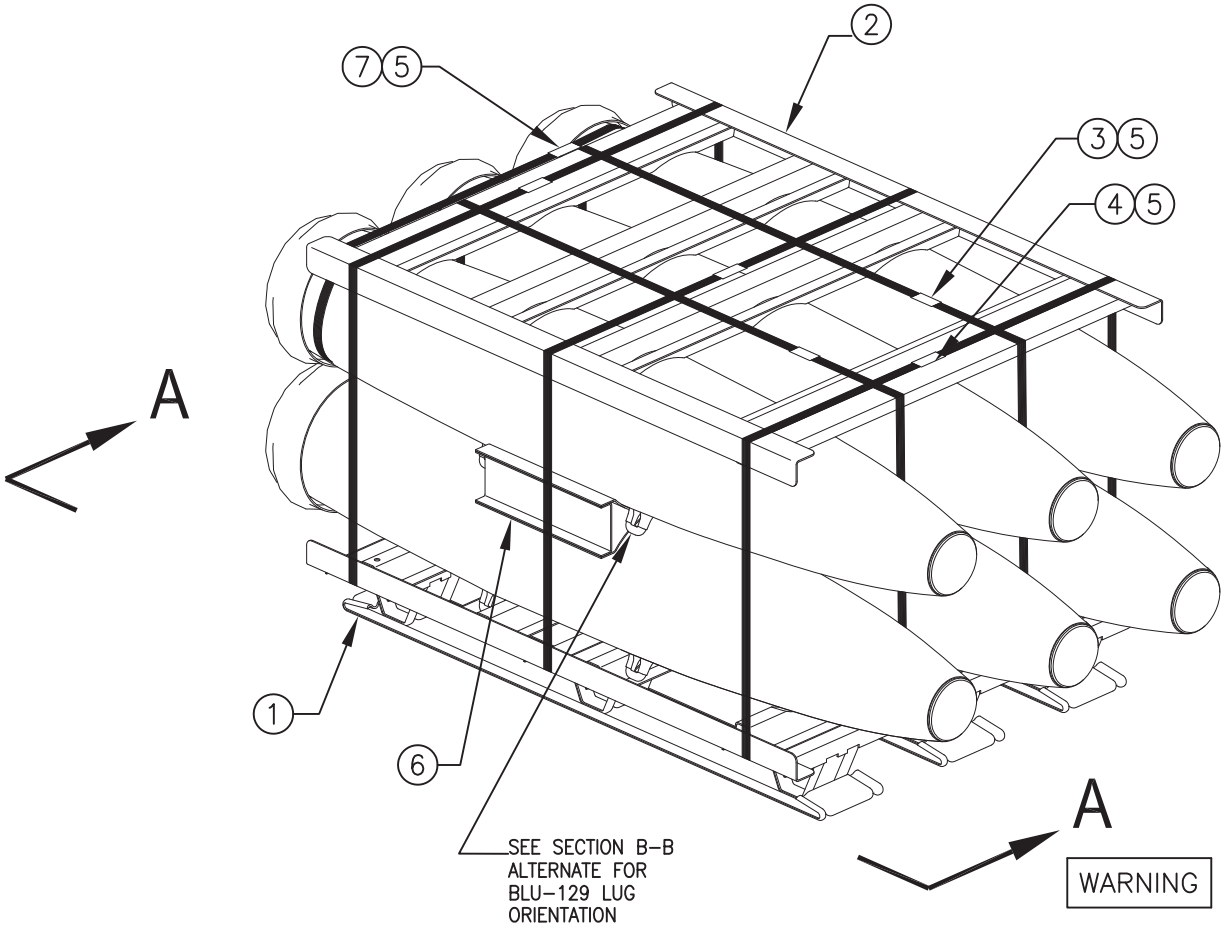
CAUTION DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

G. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION B–B ON PAGE 4). TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

H. POSITION LATERAL STRAPS, ITEM 4, THROUGH VERTICAL SUPPORTS OF BOTTOM FRAME (SEE VIEW A–A ON PAGE 4) AND OVER TOP OF LOAD. TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

J. TO PREVENT MOVEMENT OF TOP CENTER BOMB, THREAD TAIL STRAPPING, ITEM 7, AROUND THE TOP ROW OF BOMBS AS SHOWN IN VIEW A–A AND DETAIL C ON PAGE 4. TENSION AND SECURE STRAP WITH A DOUBLE NOTCH SEAL, ITEM 5. BE SURE THE BOMB STRAPPING IS LOCATED ADJACENT TO THE SHIPPING CAPS.

K. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.

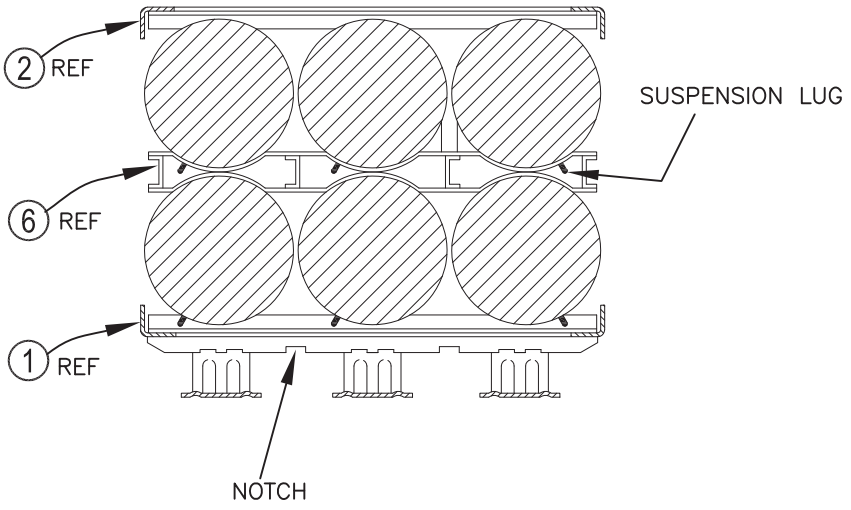


WARNING

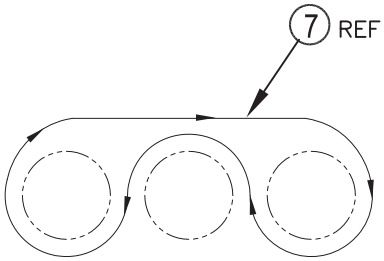
WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

DEPALLETIZING PROCEDURE

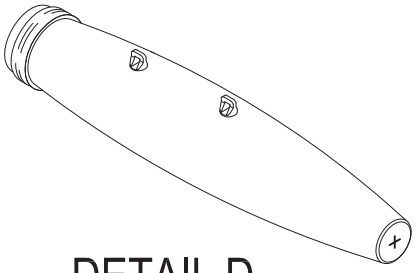
SEE PAGE 14



SECTION B-B

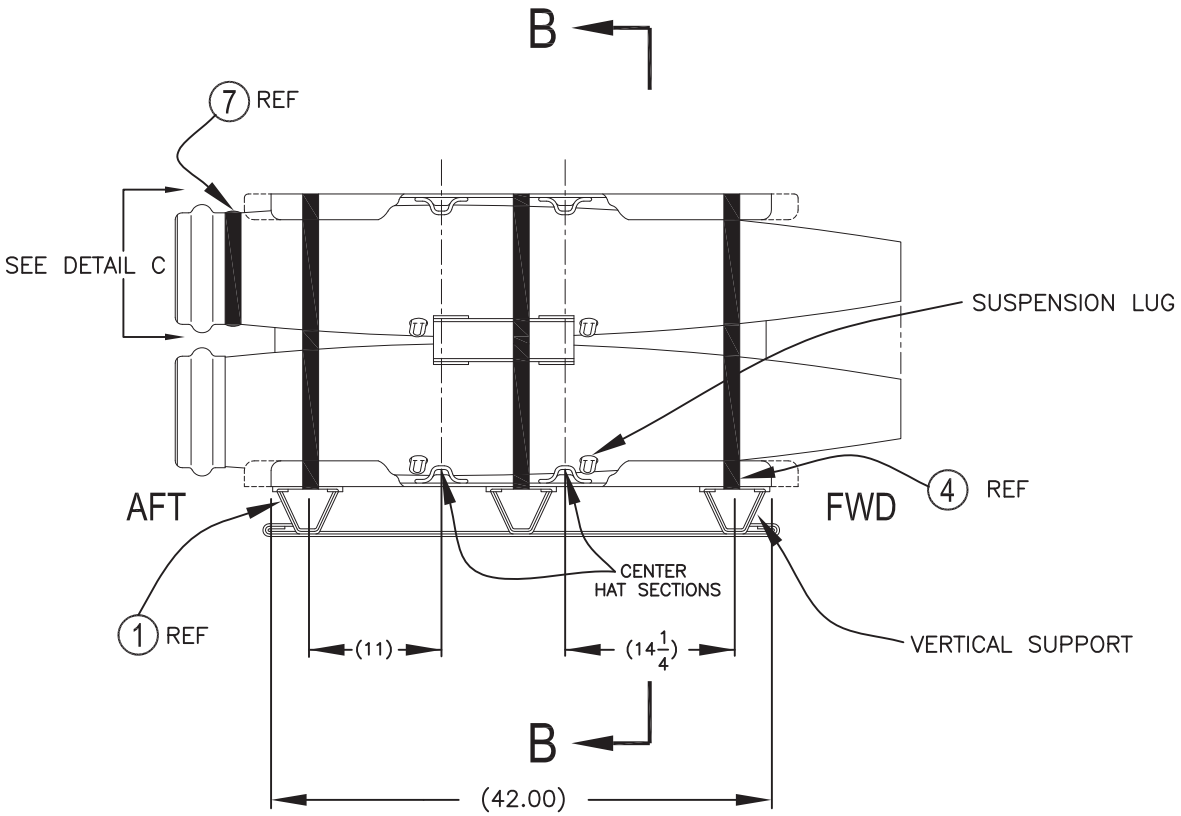


DETAIL C



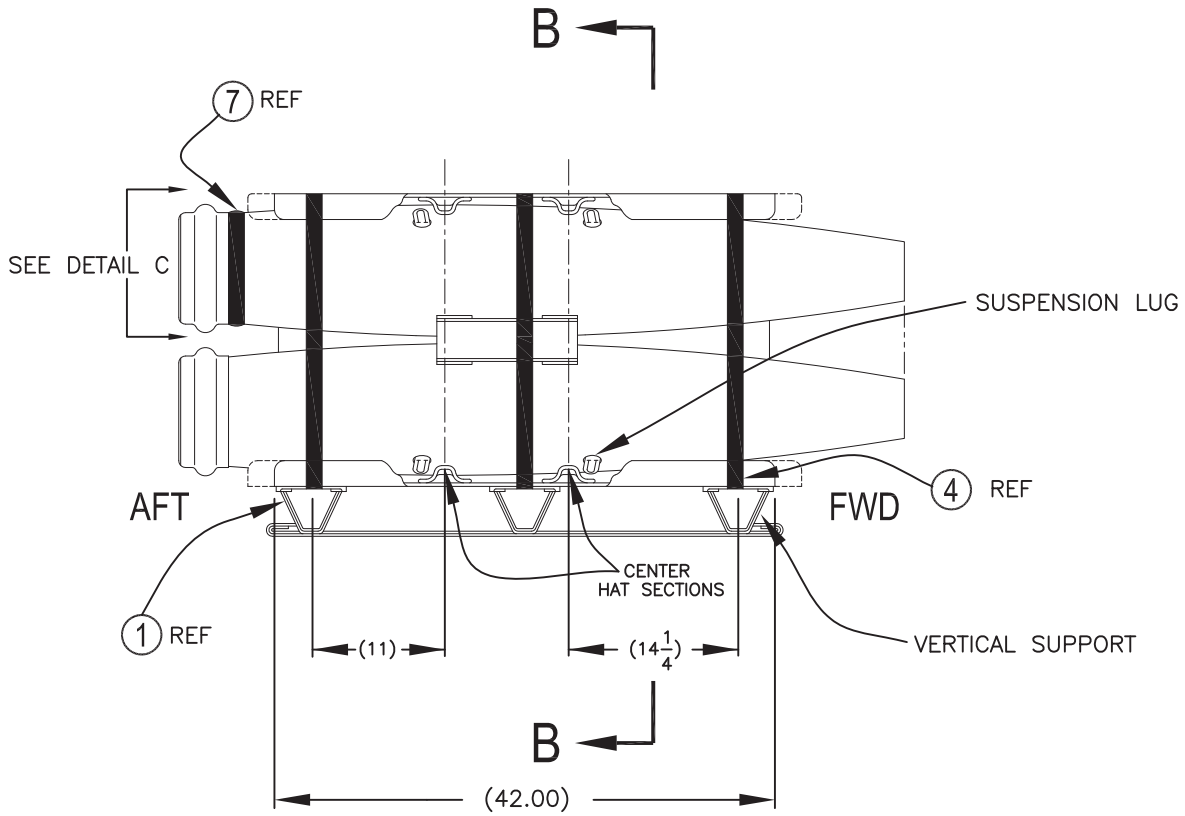
DETAIL D

BOMB SUSPENSION LUG ORIENTATION



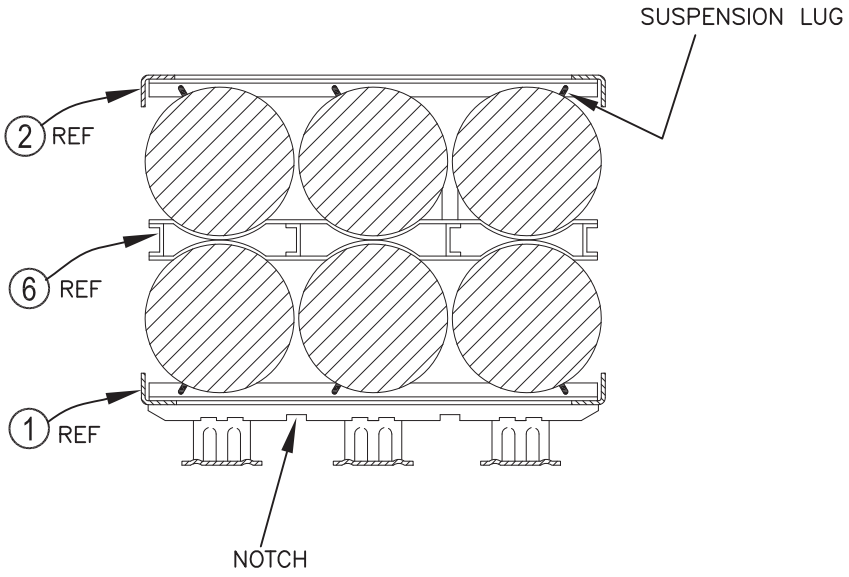
VIEW A-A

NAVSEA DWG NO. 6214275	REV. B	SIZE A	CAGE CODE 53711	PAGE 4 OF 14



VIEW A-A ALTERNATE

(BLU–129 ONLY)



SECTION B-B ALTERNATE

(BLU–129 ONLY)

PALLETIZING PROCEDURE - FIVE BOMBS

FOR LIST OF MATERIALS
SEE PAGE 2.

A. USING APPROVED HANDLING EQUIPMENT, PLACE THREE BOMBS IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD ENDS OF THE BOMBS FACE THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE. THE LOCATIONS OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW A–A ON PAGE 4.

C. PLACE INTERMEDIATE FRAME, ITEM 6, ON TOP OF BOMBS AND LOCATE AS SHOWN IN VIEW A–A ON PAGE 4.

D. USING APPROVED HANDLING
CENTER BOMB SHALL BE LOADED FIRST. THE NOSE ENDS OF THE UPPER BOMBS SHALL BE EVEN WITH THE NOSE ENDS OF THE LOWER BOMBS AS INDICATED IN VIEW A–A ON PAGE 4.
ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN VIEW A–A ALTERNATE ON PAGE 5.

E. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECETION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN SECTION B–B ALTERNATE ON PAGE 5.

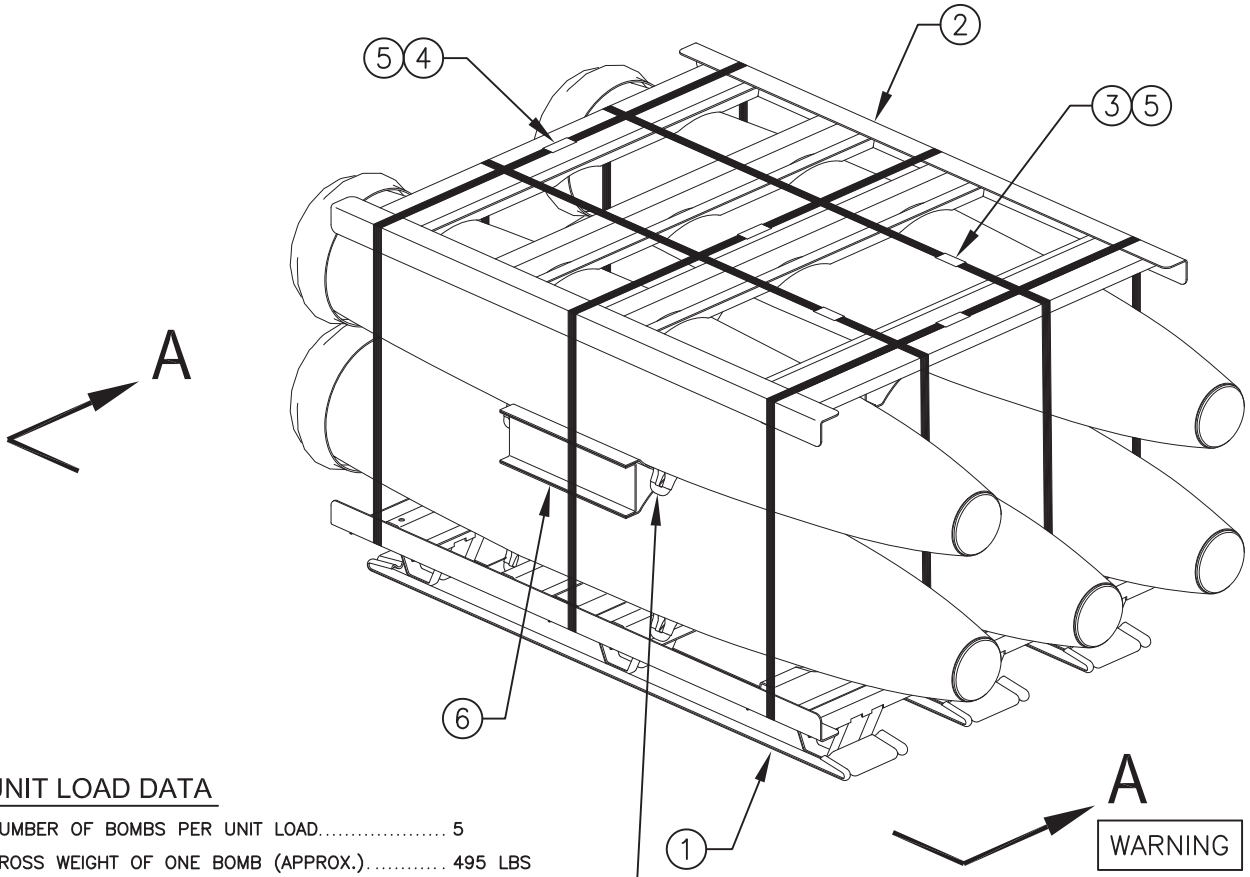
F. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMBS AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW A–A ON PAGE 4 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMBS.

CAUTION DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

G. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION B–B ON PAGE 4). TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

H. POSITION LATERAL STRAPS, ITEM 4, THROUGH VERTICAL SUPPORTS OF BOTTOM FRAME (SEE VIEW A–A ON PAGE 4) AND OVER TOP OF LOAD. TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

J. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.



UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD	5
GROSS WEIGHT OF ONE BOMB (APPROX.)	495 LBS
WEIGHT OF BOMB PALLET	170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)	9 LBS
GROSS WEIGHT OF UNIT LOAD (APPROX.)	2,654 LBS △
CUBE (NON–THERMALLY PROTECTED BOMB)	35.4 CU–FT
CUBE (THERMALLY PROTECTED BOMB)	36.1 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.

SEE SECTION B–B ALTERNATE FOR BLU–129 LUG ORIENTATION

WARNING

WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

DEPALLETIZING PROCEDURE

SEE PAGE 14

FOR LIST OF MATERIALS
SEE PAGE 2.

PALLETIZING PROCEDURE - FOUR BOMBS

A. USING APPROVED HANDLING EQUIPMENT, PLACE THREE BOMBS IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD ENDS OF THE BOMBS FACE THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE. THE LOCATIONS OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW A–A ON PAGE 4.

C. PLACE INTERMEDIATE FRAME, ITEM 6, ON TOP OF BOMBS AND LOCATE AS SHOWN IN VIEW A–A ON PAGE 4.

D. USING APPROVED HANDLING
CENTER BOMB SHALL BE LOADED FIRST. THE NOSE ENDS OF THE UPPER BOMBS SHALL BE EVEN WITH THE NOSE ENDS OF THE LOWER BOMBS AS INDICATED IN VIEW A–A ON PAGE 4.
ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN VIEW A–A ALTERNATE ON PAGE 5.

E. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECETION B–B ON PAGE 4. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE.

1. FOR BLU–129, ORIENT LUGS AS SHOWN IN SECTION B–B ALTERNATE ON PAGE 5.

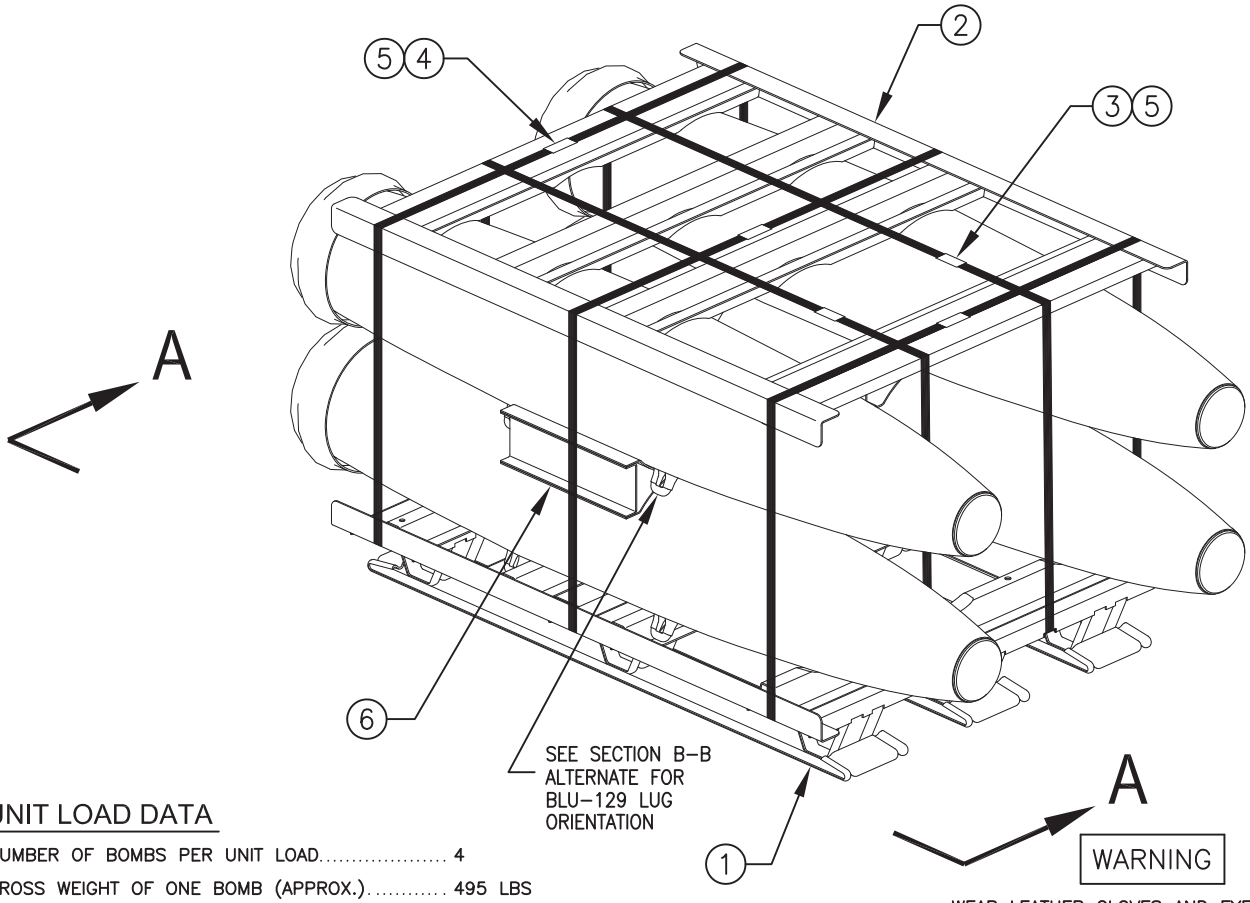
F. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMBS AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW A–A ON PAGE 4 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMBS.

CAUTION DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

G. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION B–B ON PAGE 4). TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

H. POSITION LATERAL STRAPS, ITEM 4, THROUGH VERTICAL SUPPORTS OF BOTTOM FRAME (SEE VIEW A–A ON PAGE 4) AND OVER TOP OF LOAD. TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

J. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.



UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD	4
GROSS WEIGHT OF ONE BOMB (APPROX.)	495 LBS
WEIGHT OF BOMB PALLET	170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)	9 LBS
GROSS WEIGHT OF UNIT LOAD (APPROX.)	2,159 LBS △
CUBE (NON–THERMALLY PROTECTED BOMB)	35.4 CU–FT
CUBE (THERMALLY PROTECTED BOMB)	36.1 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.

WARNING

WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

DEPALLETIZING PROCEDURE

SEE PAGE 14

PALLETIZING PROCEDURE - THREE BOMBS

FOR LIST OF MATERIALS
SEE PAGE 2.

A. USING APPROVED HANDLING EQUIPMENT, PLACE THREE BOMBS IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD ENDS OF THE BOMBS FACE THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION F–F ON PAGE 9. THE CENTER BOMB MAY BE ROTATED TOWARD EITHER SIDE. THE LOCATIONS OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW E–E ON PAGE 9.

C. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMBS AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW E–E ON PAGE 9 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMBS.

CAUTION

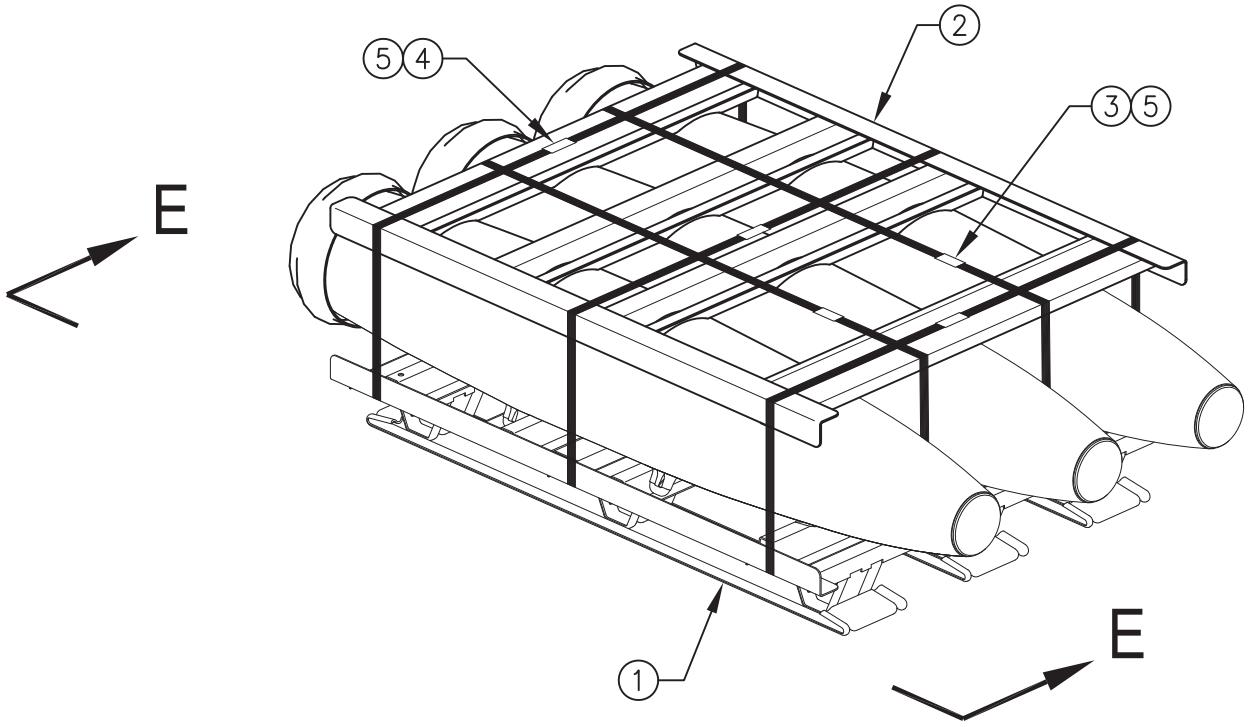
DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

D. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION F–F ON PAGE 9). TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

E. POSITION LATERAL STRAPS, ITEM 4, THROUGH VERTICAL SUPPORTS OF BOTTOM FRAME (SEE VIEW E–E ON PAGE 9) AND OVER TOP OF LOAD. TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

F. STRAP INTERMEDIATE FRAME TO TOP OF THE UNIT LOAD. DO NOT STACK ON TOP OF UNIT LOAD.

G. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.



WARNING

WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

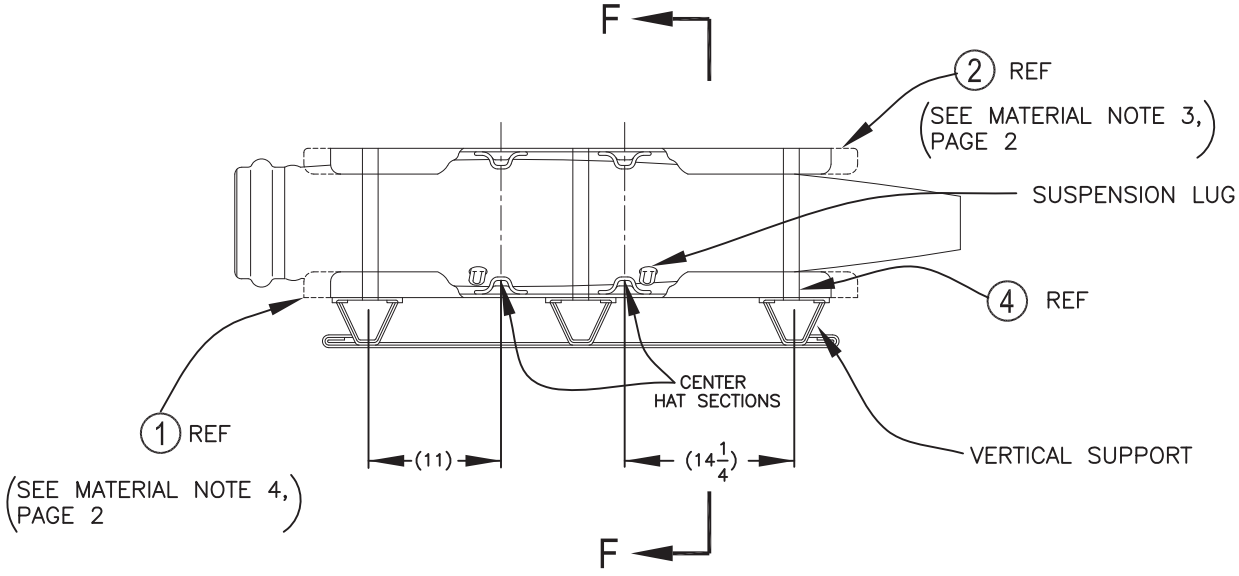
DEPALLETIZING PROCEDURE

SEE PAGE 14

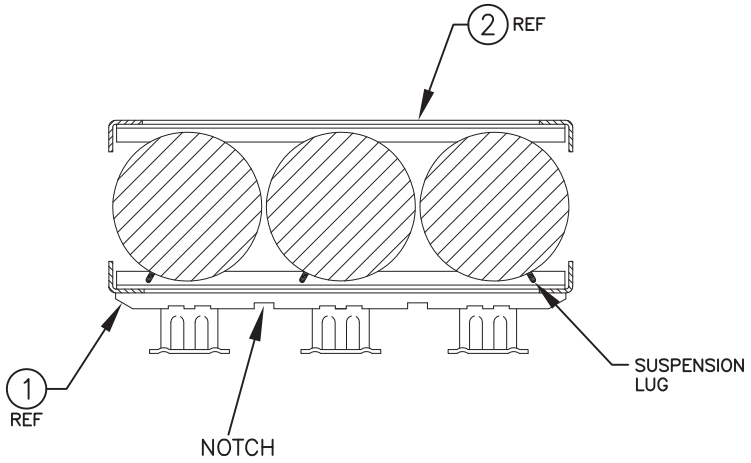
UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD	3
GROSS WEIGHT OF ONE BOMB (APPROX.)	495 LBS
WEIGHT OF BOMB PALLET	170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)	9 LBS
GROSS WEIGHT OF UNIT LOAD (APPROX.)	1664 LBS △
CUBE (NON–THERMALLY PROTECTED BOMB)	21.1 CU–FT
CUBE (THERMALLY PROTECTED BOMB)	21.75 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.



VIEW E-E



SECTION F-F

PALLETIZING PROCEDURE - TWO BOMBS

FOR LIST OF MATERIALS
SEE PAGE 2.

A. USING APPROVED HANDLING EQUIPMENT, PLACE TWO BOMBS IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD ENDS OF THE BOMBS FACE THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODIES SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION F–F ON PAGE 9. THE LOCATIONS OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW E–E ON PAGE 9.

C. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMBS AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW E–E ON PAGE 9 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMBS.

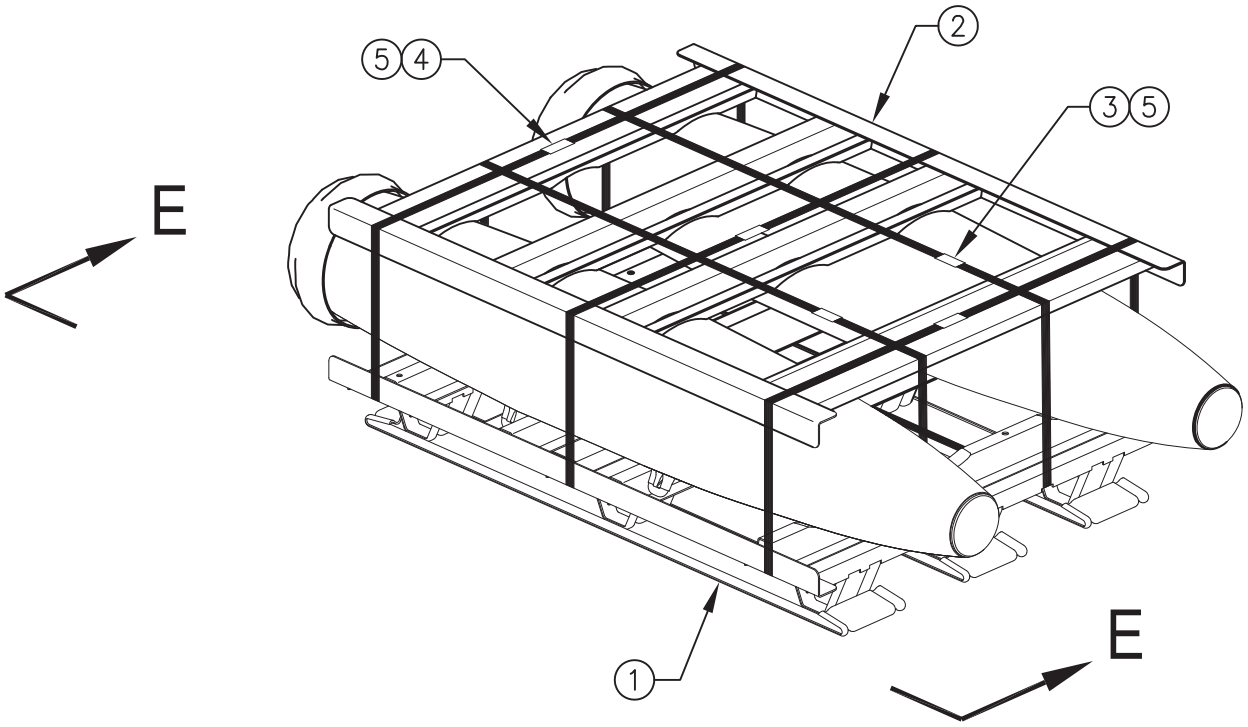
CAUTION DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

D. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION F–F ON PAGE 9). TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

E. POSITION LATERAL STRAPS, ITEM 4, THROUGH VERTICAL SUPPORTS OF BOTTOM FRAME (SEE VIEW E–E ON PAGE 9) AND OVER TOP OF LOAD. TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 5.

F. STRAP INTERMEDIATE FRAME TO TOP OF THE UNIT LOAD. DO NOT STACK ON TOP OF UNIT LOAD.

G. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.



WARNING

WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

DEPALLETIZING PROCEDURE

SEE PAGE 14

UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD	2
GROSS WEIGHT OF ONE BOMB (APPROX.)	495 LBS
WEIGHT OF BOMB PALLET	170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)	9 LBS
GROSS WEIGHT OF UNIT LOAD (APPROX.)	1169 LBS △
CUBE (NON–THERMALLY PROTECTED BOMB)	21.1 CU–FT
CUBE (THERMALLY PROTECTED BOMB)	21.75 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.

FOR LIST OF MATERIALS
SEE PAGE 2.

PALLETIZING PROCEDURE - SINGLE BOMB

A. USING APPROVED HANDLING EQUIPMENT, PLACE BOMB IN BOTTOM FRAME, ITEM 1, AS SHOWN IN THE ILLUSTRATION BELOW. MAKE SURE THE FORWARD END OF THE BOMB FACES THE FORWARD END OF THE PALLET. MAKE SURE THE BOMB SUSPENSION LUGS ARE SCREWED ALL THE WAY IN AND THEN TURN THEM SO THAT THEY ARE ORIENTED AS SHOWN IN DETAIL D ON PAGE 4.

B. ROTATE BOMB BODY SO THAT THE LUGS ARE ORIENTED AS SHOWN IN SECTION F–F ON PAGE 9. THE LOCATION OF THE LUGS RELATIVE TO THE TWO CENTER HAT SECTIONS SHALL BE AS SHOWN IN VIEW E–E ON PAGE 9.

C. APPLY BOMB STRAP, ITEM 5, AS SHOWN IN VIEW G ON PAGE 11. STRAP SHALL PASS THROUGH THE CENTER VERTICAL SUPPORT OF BOTTOM FRAME AND OVER BOMB AS SHOWN. TENSION AND SECURE STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 4.

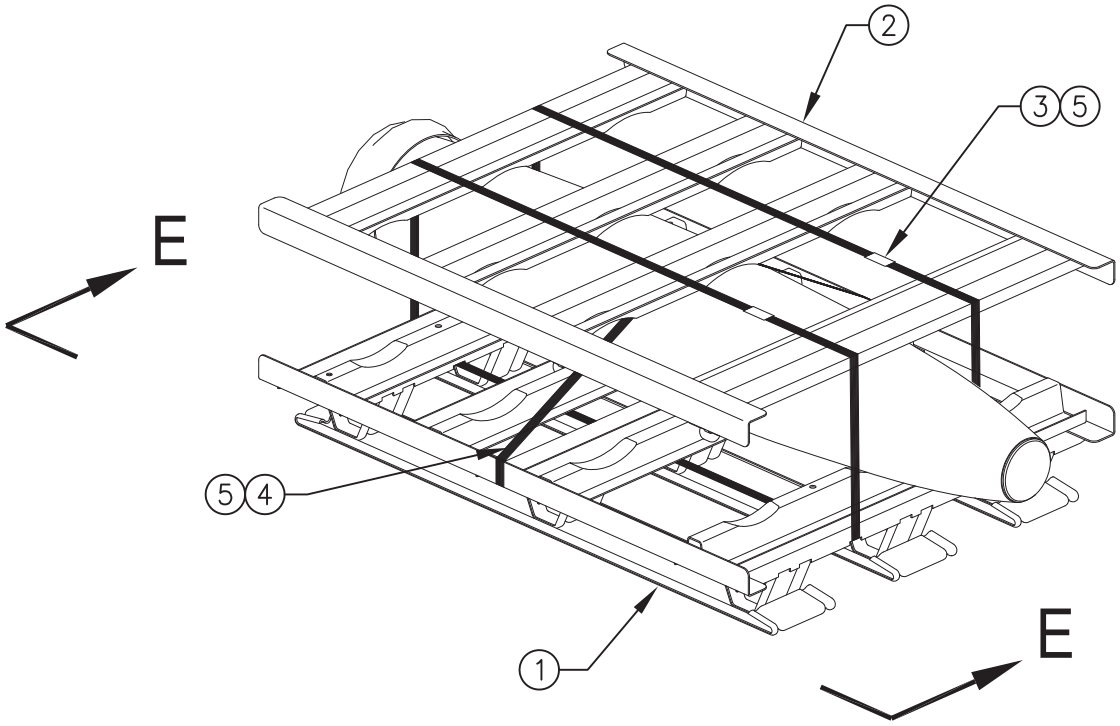
D. PLACE TOP FRAME, ITEM 2, ON TOP OF BOMB AS SHOWN IN THE ILLUSTRATION BELOW. THE SADDLES OF THE UPPER FRAME SHALL BE DIRECTLY ABOVE THE SADDLES OF THE LOWER FRAME AS SHOWN IN VIEW E–E ON PAGE 9 MAKING SURE THAT THE FORWARD END OF THE PALLET FACES THE FORWARD END OF THE BOMB.

CAUTION DO NOT INSTALL LONGITUDINAL STRAPS THROUGH SLOTS THAT ARE PRESENT IN OLDER TOP FRAMES. DAMAGE TO THERMAL PROTECTION MAY OCCUR WHEN SLOTS ARE USED.

E. POSITION LONGITUDINAL STRAPS, ITEM 3, AROUND UNIT LOAD AS SHOWN IN THE ILLUSTRATION BELOW. USE THE SLOTS IN THE BOTTOM FRAME TO LOCATE THESE STRAPS (SEE SECTION F–F ON PAGE 9). SIMULTANEOUSLY TENSION AND SECURE EACH STRAP WITH ONE DOUBLE NOTCHED SEAL, ITEM 4, SO THAT THE TOP FRAME IS PARALLEL TO THE GROUND.

F. STRAP INTERMEDIATE FRAME TO TOP OF THE UNIT LOAD. DO NOT STACK ON TOP OF UNIT LOAD.

G. MARK UNIT LOAD IN ACCORDANCE WITH THE INSTRUCTIONS ON PAGE 13.



WARNING

WEAR LEATHER GLOVES AND EYE PROTECTION (WITH SIDE SHIELDS) OR GOGGLES TO PREVENT INJURY WHEN PERFORMING STRAPPING OPERATIONS. RAPIDLY UNCOILING STRAPPING MAY CAUSE INJURY. DIRECT STRAPPING AWAY FROM PERSONNEL WHEN CUTTING STRAPPING UNDER TENSION.

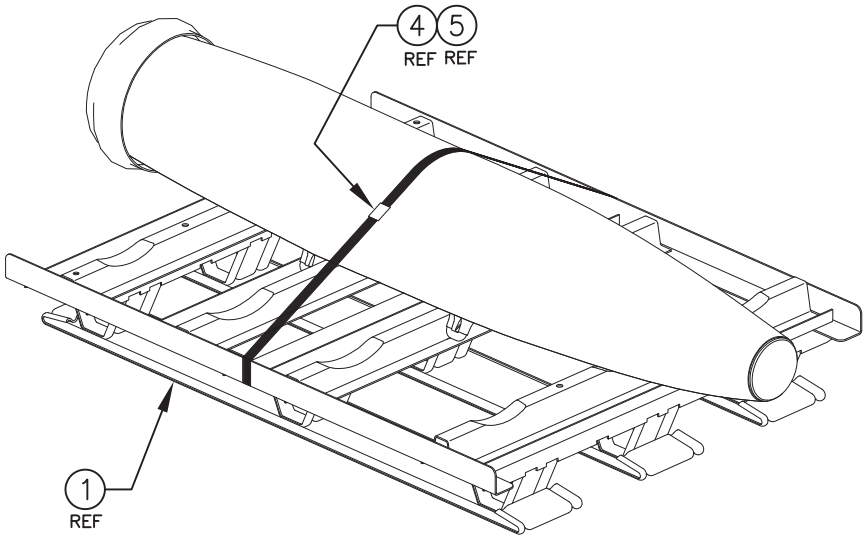
DEPALLETIZING PROCEDURE

SEE PAGE 14

UNIT LOAD DATA

NUMBER OF BOMBS PER UNIT LOAD	1
GROSS WEIGHT OF ONE BOMB (APPROX.)	495 LBS
WEIGHT OF BOMB PALLET	170 LBS
WEIGHT OF STEEL STRAPPING (APPROX.)	4
GROSS WEIGHT OF UNIT LOAD (APPROX.)	669 LBS
CUBE (NON–THERMALLY PROTECTED BOMB)	21.1 CU–FT
CUBE (THERMALLY PROTECTED BOMB)	21.75 CU–FT

△ DO NOT USE FOR SHIPPING WEIGHT.



VIEW G

MARKING INSTRUCTIONS:

1. IN ADDITION TO ANY SPECIAL MARKING REQUIRED BY CONTRACT OR PURCHASE ORDER, THE UNIT LOAD SHALL BE MARKED IN ACCORDANCE WITH 28620–ACV00561 AND THE FOLLOWING NOTES.

2. THE UNIT LOAD MARKING AND UNIT LOAD LINEAR AND 2D BAR CODES SHALL BE APPLIED TO WATERPROOF TAG(S) THAT ARE ATTACHED TO THE UNIT LOAD AT DIAGONALLY OPPOSITE ENDS OF THE UNIT LOAD ON THE TOP FRAME OF THE ADAPTER. THE UNIT LOAD MARKING AND LINEAR BAR CODE LABELS SHALL BE APPLIED TO ONE SIDE OF THE TAG. THE 2D BAR CODE LABEL SHALL BE APPLIED TO THE OPPOSITE SIDE OF THE TAG. WATERPROOF PAPER, METAL, CLOTH OR PLASTIC TAGS SHALL BE USED. THE TAGS SHALL BE ATTACHED BY CORROSION–RESISTANT WIRE OR PLASTIC TIES.

3. LINEAR BAR CODE LABELS:

   A. IN ADDITION TO 2D BAR CODE LABELS OF ACV00561, APPLY NIIN AND LOT NUMBER LINEAR BAR CODE LABELS AS FOLLOWS:

      1) NIIN BAR CODE LABEL: THE NINE–DIGIT NATIONAL ITEM IDENTIFICATION NUMBER (NIIN), OWNERSHIP CODE AND AMMUNITION CONDITION CODE SHALL BE ENCODED AS A SINGLE "MESSAGE". THE NIIN SHALL BE ENCODED WITHOUT THE DASHES. A SPACE (ENCODED) SHALL BE PLACED BETWEEN THE NIIN AND THE OWNERSHIP CODE AND BETWEEN THE OWNERSHIP CODE AND AMMUNITION CONDITION CODE.

         a) OWNERSHIP CODE: THE OWNERSHIP CODE SHALL BE AS FOLLOWS:
            1. FOR ARMY–OWNED AMMUNITION– "1".
            2. FOR MARINE CORPS–OWNED AMMUNITION– "4".
            3. FOR NAVY OWNED–AMMUNITION– "5".
            4. FOR AIR FORCE–OWNED AMMUNITION– "6".
            5. FOR COAST GUARD–OWNED AMMUNITION– "7".

         b) AMMUNITION CONDITION CODE: THE AMMUNITION CONDITION CODE (C/C) SHALL BE "A" FOR NEW PRODUCTION ASSETS.

      2) LOT/SERIAL NUMBER BAR CODE LABEL: THE LOT NUMBER, SERIAL NUMBER, SHELF–LIFE EXPIRATION DATE AND QUANTITY SHALL BE ENCODED ON THE SAME "MESSAGE". A SLASH (ENCODED) SHALL BE PLACED BETWEEN THE LOT NUMBER AND THE SERIAL NUMBER, WHEN BOTH LOT AND SERIAL NUMBERS ARE ASSIGNED. THE SHELF–LIFE EXPIRATION DATE IS A 4 DIGIT DATA ELEMENT REPRESENTING THE MONTH (01 THROUGH 12) AND LAST TWO DIGITS OF THE YEAR. THE SHELF–LIFE SHALL BE ENCODED BETWEEN THE SERIAL NUMBER AND THE QUANTITY, IF A SHELF–LIFE IS ASSIGNED. A SPACE (ENCODED) SHALL BE PLACED BETWEEN THE SERIAL NUMBER AND THE SHELF–LIFE DATE AND BETWEEN THE SHELF–LIFE DATE AND THE QUANTITY.

   B. LINEAR BAR CODE REQUIREMENTS:

      1) LABELS SHALL MEET THE REQUIREMENTS FOR GRADE A, STYLE 2, COMPOSITION B, LABELS AS SPECIFIED IN MIL–PRF–61002. THE PERFORMANCE REQUIREMENTS FOR SOLVENT AND DETERGENT RESISTANCE ARE NOT REQUIRED. THE LABEL SHOULD BE THE PRESSURE SENSITIVE ADHESIVE TYPE. ADDITIONAL PERFORMANCE REQUIREMENTS THAT MUST BE MET ARE AS FOLLOWS:

         a) THE LABEL MATERIAL WILL BE MINIMUM OF 6.8 MIL THICK (7 MIL NOMINAL). MATERIAL WILL PROVIDE A MINIMUM OF 42 LBS/1–INCH WIDE TENSILE STRENGTH AT BREAK WHEN TESTED IAW ASTM D882. MATERIAL WILL PROVIDE A MINIMUM OF 6600 GRAMS (66 NEWTONS) OF PUNCTURE PROPAGATION AND TEAR RESISTANCE WHEN TESTED IAW ASTM D2582.

         b) EACH LABEL SHALL BE NO GREATER THAN 4 INCHES BY 4 INCHES SQUARE. NEW PRODUCTION SHALL HAVE LABELS OF MINIMUM SIZE WITH MINIMUM AMOUNT OF WHITE SPACE. FORMAT IS NOT MANDATED BUT THE INFORMATION SHOULD BE GROUPED BY NSN OR PART NUMBER AND THEN BY SERIAL NUMBER FOR EACH LOT NUMBER IF APPLICABLE.

      2) THE BAR CODE SYMBOLOGY AND HUMAN READABLE INFORMATION (HRI) THAT ARE TO BE APPLIED SHOULD BE THE STANDARD DOD SYMBOLOGY AS DESCRIBED IN ANSI/AIM BC1 (UNIFORM SYMBOLOGY SPECIFICATION CODE 39). THE ANSI/AIM BC1 IS A DOCUMENT PUBLISHED BY AIM USA AND MAY BE OBTAINED DIRECTLY FROM AIM USA BY WRITING TO 634 ALPHA DRIVE, PITTSBURGH PA 15328–2802 OR CALL (412) 963–8588. THE HRI SHALL BE AN EXACT INTERPRETATION OF THE DATA ENCODED IN THE BAR CODE AND SHOULD NOT CONTAIN ANY SPACES OR DASHES, THE PREFERRED LOCATION FOR THE HRI IS BELOW THE BAR CODE MARKINGS.

      3) BAR CODE RESTRICTIONS:

         a) DENSITY OF THE BAR CODE SHALL BE 9.4 CHARACTERS PER INCH UNLESS OTHERWISE SPECIFIED.

         b) HEIGHT OF BAR CODE SHALL BE 0.25 INCH OR GREATER. THE HEIGHT OF THE BARS MAY EXTEND TO THE EDGE OF THE LABEL.

         c) DISTANCE BETWEEN THE BAR CODE AND THE HRI WILL BE BETWEEN 0.003 AND 0.010 INCH. THE PREFERRED DISTANCE IS 0.003.

         d) HEIGHT OF THE HRI SHALL BE BETWEEN 0.09 AND 0.15 INCH. THE PREFERRED HEIGHT IS 0.09.

DEPALLETIZING PROCEDURE - SIX, FIVE, AND FOUR BOMBS

A. CUT AND REMOVE ALL STRAPPING.

B. REMOVE TOP FRAME.

C. ROTATE UPPER BOMBS SO THAT LUGS FACE UPWARD.

D. REMOVE UPPER BOMBS.

E. REMOVE INTERMEDIATE FRAME.

F. ROTATE LOWER BOMBS SO THAT LUGS FACE UPWARD.

G. REMOVE LOWER BOMBS.

H. POSITION THE INTERMEDIATE FRAME BETWEEN THE TOP AND BOTTOM FRAME AT THE FORWARD END. INTERLOCK THE TOP & BOTTOM FRAMES USING PINS AND AND HOLES AT THE AFT END. STACK LIKE ASSEMBLIES AND SECURE TOGETHER FOR STORAGE/STOWAGE.

J. DO NOT EXCEED UNIT HEIGHT OF 45 INCHES.

K. APPLY A MINIMUM OF FOUR STEEL STRAPS WITH TWO RUNNING THE LENGTH AND TWO RUNNING THE WIDTH OF UNITIZED LOAD.

L. APPLY CONDITION CODE TAG AND BAR CODES IN ACCORDANCE WITH MIL–STD–129.

DEPALLETIZING PROCEDURE - THREE AND TWO BOMBS

A. CUT AND REMOVE ALL STRAPPING.

B. REMOVE TOP FRAME.

C. ROTATE UPPER BOMBS SO THAT LUGS FACE UPWARD.

D. REMOVE UPPER BOMBS.

E. POSITION THE INTERMEDIATE FRAME BETWEEN THE TOP AND BOTTOM FRAME AT THE FORWARD END. INTERLOCK THE TOP & BOTTOM FRAMES USING PINS AND HOLES AT THE AFT END. STACK LIKE ASSEMBLIES AND SECURE TOGETHER FOR STORAGE/STOWAGE.

F. DO NOT EXCEED UNIT HEIGHT OF 45 INCHES.

G. APPLY A MINIMUM OF FOUR STEEL STRAPS WITH TWO RUNNING THE LENGTH AND TWO RUNNING THE WIDTH OF UNITIZED LOAD.

H. APPLY CONDITION CODE TAG AND BAR CODES IN ACCORDANCE WITH MIL–STD–129.

DEPALLETIZING PROCEDURE - SINGLE BOMB

A. CUT AND REMOVE LONGITUDINAL STRAPS, ITEM 3.

B. REMOVE TOP FRAME.

C. REMOVE BOMB STRAPPING, ITEM 5.

D. ROTATE BOMB SO THAT LUGS FACE UPWARD.

E. REMOVE BOMB.

F. POSITION THE INTERMEDIATE FRAME BETWEEN THE TOP AND BOTTOM FRAME AT THE FORWARD END. INTERLOCK THE TOP & BOTTOM FRAMES USING PINS AND HOLES AT THE AFT END. STACK LIKE ASSEMBLIES AND SECURE TOGETHER FOR STORAGE/STOWAGE.

G. DO NOT EXCEED UNIT HEIGHT OF 45 INCHES.

H. APPLY A MINIMUM OF FOUR STEEL STRAPS WITH TWO RUNNING THE LENGTH AND TWO RUNNING THE WIDTH OF UNITIZED LOAD.

J. APPLY CONDITION CODE TAG AND BAR CODES IN ACCORDANCE WITH MIL–STD–129.