

HAWK

MINIMUM REQUIREMENTS FOR THE HANDLING, STOWAGE, AND BRACING ABOARD SHIPS OF ROCKET MOTOR, XM22E8 AND/OR XMII2, IN WOODEN CRATE®

CAUTION:

THE WOODEN CRATE CONTAINING THE XM22E8 MOTOR DESIGNATED HEREIN MUST BE MODIFIED IN ACCORDANCE WITH DRAWING NUMBER 19-48-AMXAC-4103, REV I, DATED SEPTEMBER 1971. THE CRATE CONTAINING THE XMII2 MOTOR DESIGNATED HEREIN MUST BE MODIFIED IN ACCORDANCE WITH DRAWING NUMBER 19-48-AMXAC-432I.

THIS DRAWING, INCLUDING REVISION 1, SUPERSEDES DRAWING 19-48-5774-GM 18A17, DATED OCTOBER 1972.

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				AUGUST 1973			
				CLASS	DIVISION	DRAWING	FILE
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NOTES

GENERAL

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13.
- THIS DRAWING DEPICTS MINIMUM PROCEDURES APPLICABLE TO THE HANDLING, STOWAGE AND BRACING ABOARD SHIPS OF THE ROCKET MOTOR, XM22EB AND/OR XM112 IN A WOODEN CONTAINER, FOR THE HAWK MISSILE SYSTEM.
- OTHER TYPES OF CARGO MAY BE STOWED IN THE SAME HOLD OR TWEEN DECK, PROVIDING THE ITEMS STOWED ARE COMPATIBLE WITH THE MOTORS SHOWN HEREIN.

 REFERENCE: COMPATIBILITY CHART, AND CLASSIFICATION, HANDLING AND STOWAGE CHART, "RULES AND REGULATIONS FOR MILITARY EXPLOSIVES AND HAZARDOUS MUNITION", COAST GUARD REGULATION NO. CG 108.
- LADING DATA:
 - CUBE ----- 31.86 CU. FT.
 - FOR DETAILS OF CONTAINER, FOR XM112 ROCKET MOTOR, SEE DRAWING NO. 10242897, AND DRAWING NO. 19-48-AMXAC-4321. CONTAINER DIMENSIONS ---- 118" LONG X 20-1/4" WIDE X 22-7/8" HIGH.
 GROSS WEIGHT ------ 258 LBS (APPROX).
 TARE WEIGHT ----- 258 LBS (APPROX).
 CUBE ----- 31.63 CU. FT.
- THESE MOTORS ARE DOT CLASS "B" EXPLOSIVES.

HANDLING:

- PERTINENT PROVISIONS OF TITLE 46 CODE OF FEDERAL REGULATIONS APPLY.
- HANDLING OF THE XM22E8 AND/OR XM112 ROCKET MOTOR SHOULD BE ACCOMPLISHED BY USING SLING EXTENSIONS SECURELY POSITIONED AGAINST THE SKIDS UNDER THE WOODEN CONTAINER AS SHOWN.
- CONTAINERS MAY BE HANDLED INDIVIDUALLY, OR MAY BE STACKED TWO (2), THREE (3), OR FOUR (4) HIGH. CONTAINERS STACKED MUST BE UNITIZED AS TYPICALLY SHOWN ON PAGE 3. CONTAINERS SHOULD NOT BE STACKED MORE THAN FOUR (4) HIGH.
- THE HANDLING SLING SHOULD BE EQUIPPED WITH SAFETY TYPE HOOKS AND SHALL BE OF A DESIGN AND CONFIGURATION TO LIFT THE ITEM IN SUCH A MANNER THAT THE CABLE LEGS DO NOT APPLY EXCESSIVE PRESSURE WHICH MAY DAMAGE THE WOODEN CONTAINER.
- ALTHOUGH DESIREABLE, A LEVEL LIFT IS NOT MANDATORY. THE CENTER OF BALANCE OF THIS ITEM IS SHOWN TO ASSIST IN DETERMINING CABLE LENGTHS TO ASSURE A

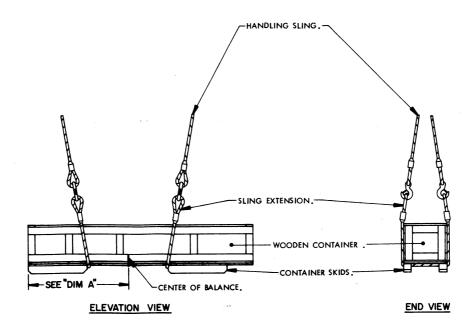
STOWAGE AND BRACING:

- OTHER CARGO ITEMS MAY BE OVER-STOWED ON THE DEPICTED CONTAINERS. <u>CAUTION</u>: THE WEIGHT OF OVER-STOWED CARGO MUST NOT CRUSH OR OTHERWISE DAMAGE THE CONTAINERS OF THE ROCKET MOTORS.
- IF HEIGHT CLEARANCE IN HOLD, TWEEN DECK OR HATCH OPENING PERMITS, CONTAINERS MAY BE STOWED A MAXIMUM OF FOUR (4) LAYERS HIGH.
- ADJACENT CONTAINERS MUST BE SEPARATED BY BRACING MEMBERS AND/OR ANTI-CHAFING ASSEMBLIES TO AVOID DAMAGE TO CONTAINERS BY DIRECT CONTACT WITH EACH OTHER.
- THE TYPICAL STOWAGE ON WEATHER PECK PROCEDURES SHOWN ON PAGE 9 IS ONLY FOR GUIDANICE PURPOSES. AS A MINIMUM, IT OR A COMPARABLE STOWAGE METHOD WILL BE USED. NOTE: WEATHER DECK STOWAGE WILL ONLY BE UTILIZED WHEN CONDITIONS WARRANT SUCH STOWAGE AND CONCURRENCE OF THE U.S. ARMY MISSILE COMMAND HAS BEEN ACQUIRED. ALSO, STOWAGE ON THE WEATHER DECK IS RESTRICTED TO A MAXIMUM OF 3-HIGH CONTAINER STACKS.
- SPECIES, GRADE AND SIZE OF LUMBER TO BE USED WILL COMPLY WITH REQUIREMENTS OF CURRENT SHIPWRIGHT-CARPENTRY AND RELATED SERVICES CONTRACTS. BRACING METHODS AND LUMBER SIZE DEPICTED IN THIS DRAWING ARE CONSIDERED MINIMUM AND ARE NOT INTENDED TO CONFLICT WITH CONTRACT REQUIREMENTS.

REVISIONS

REVISION NO. 1, DATED AUGUST 1973, CONSISTS OF:

- 1. ADDING PROCEDURES FOR STOWAGE ON THE WEATHER DECK
- AN ADDITIONAL STOWAGE AND BRACTING NOTE HAS BEEN ADDED. CHANGING DRAWING FILE NO. FROM GM18A7 TO GM18HA2.

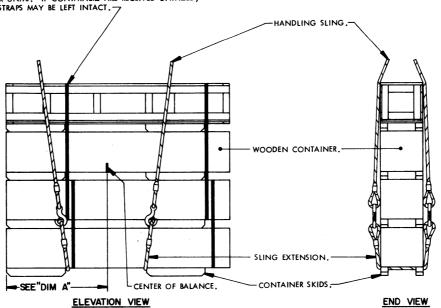


DIMENSION A:

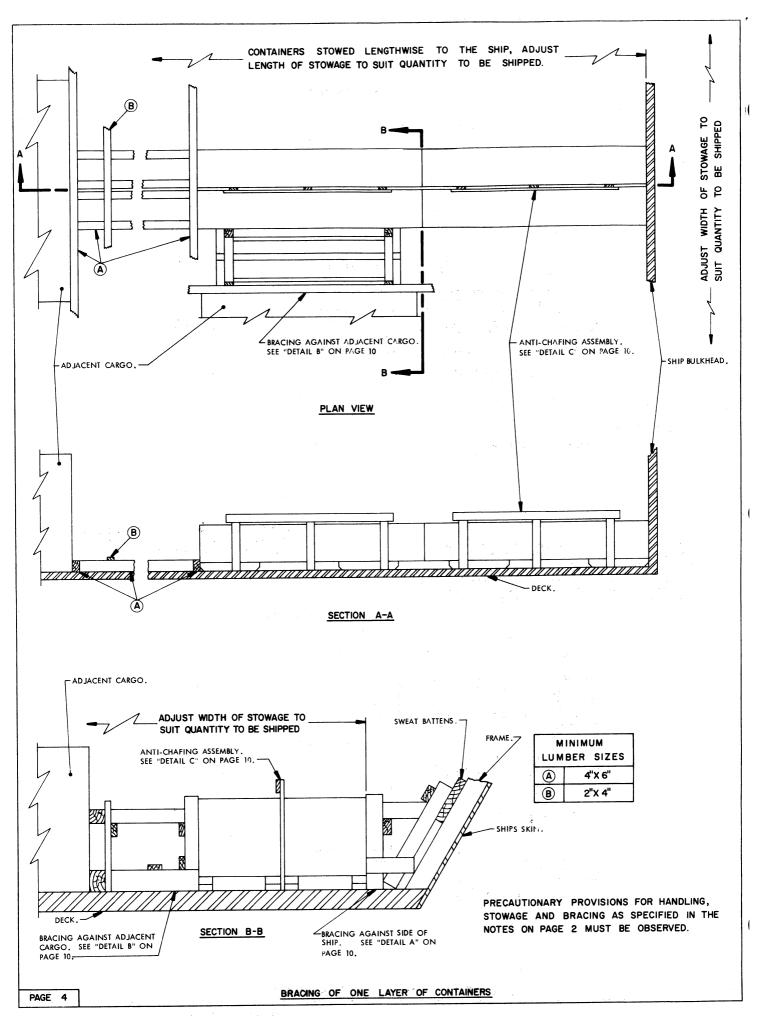
50" (APPROX) FOR XM22E8 MOTOR CONTAINER. 54" (APPROX) FOR XM112 MOTOR CONTAINER.

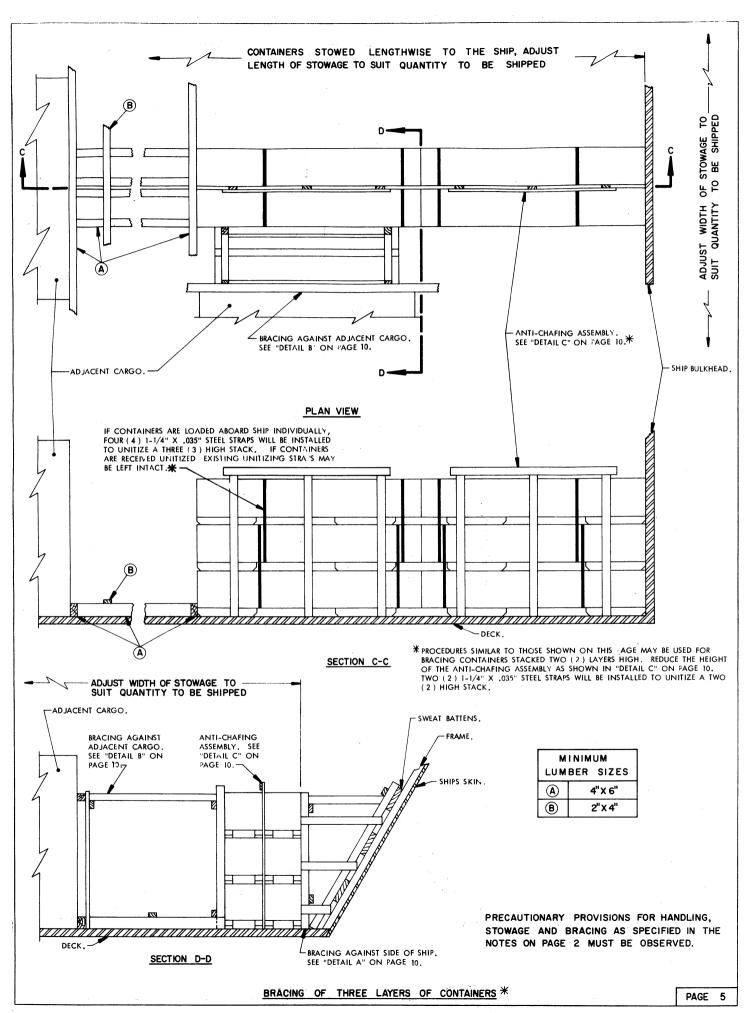
CONTAINERS MAY BE HANDLED INDIVIDUALLY, OR MAY BE STACKED TWO (2), THREE (3), OR FOUR (4) HIGH AS TYPICALLY SHOWN. IF CONTAINERS ARE HANDLED IN A STACKED CONFIGURATION, THE STACK SHOULD BE UNITIZED W/4-1-1/4" X .035" STEEL STRAPS, AS SHOWN, OR SECURED IN SOME OTHER APPROVED METHOD TO PREVENT SLIPPAGE OF THE UPPER UNITS. IF CONTAINERS ARE RECEIVED UNITIZED, EXISTING UNITIZING STRAPS MAY BE LEFT INTACT.

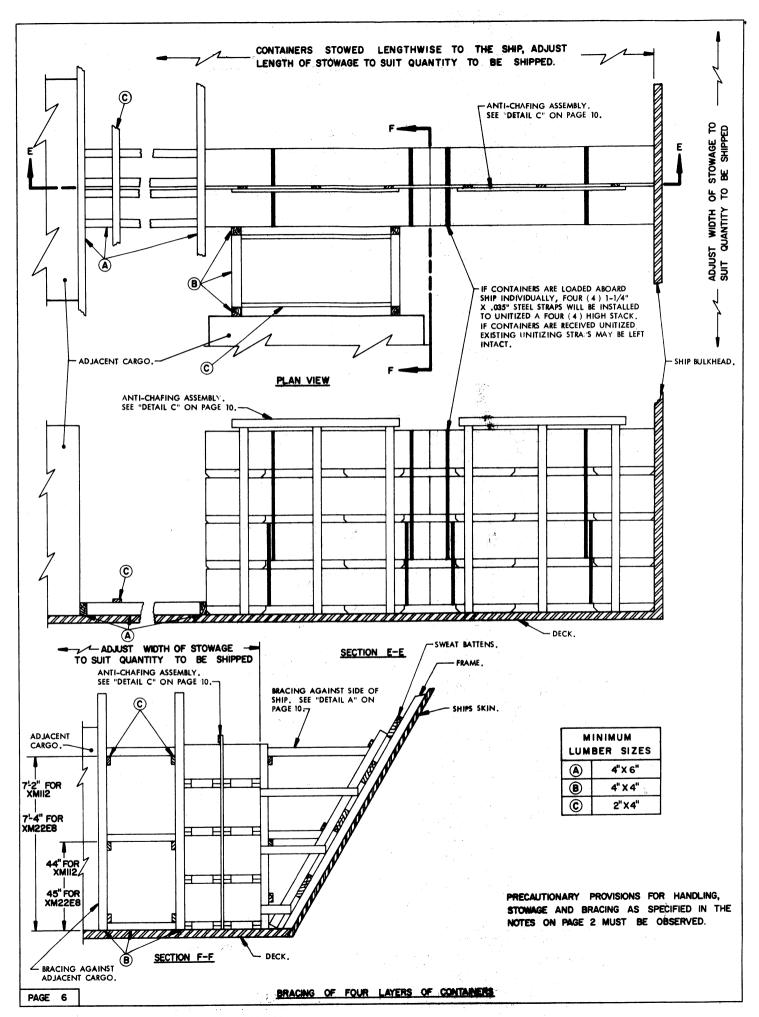
PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.

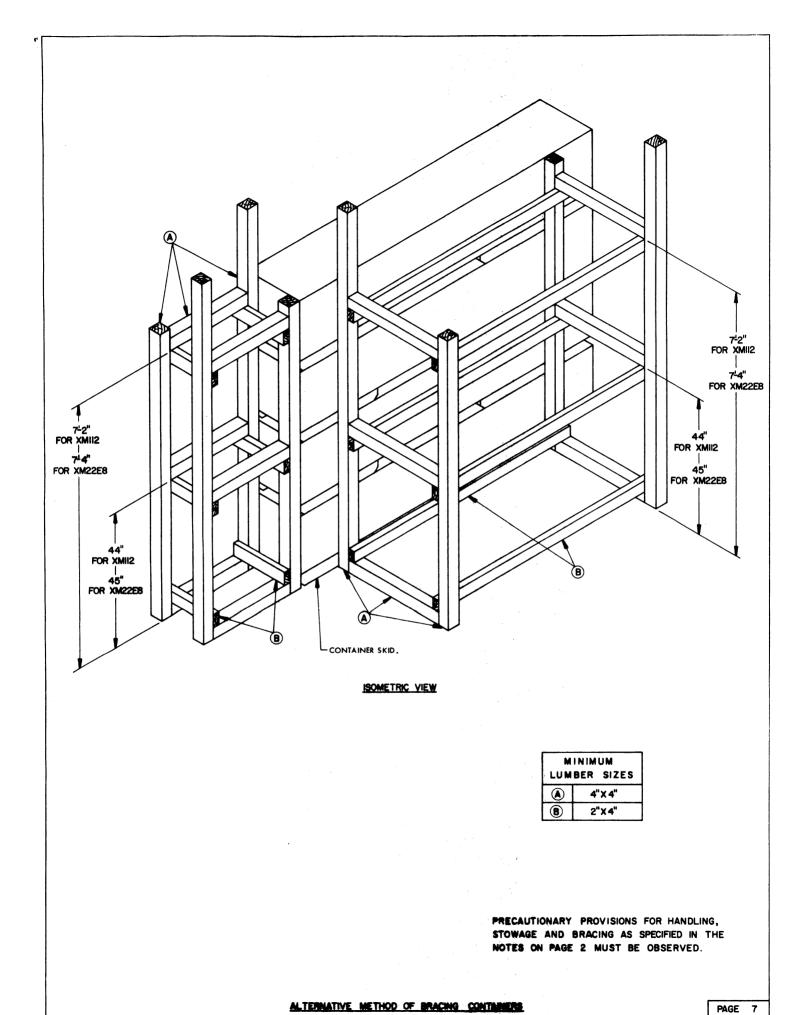


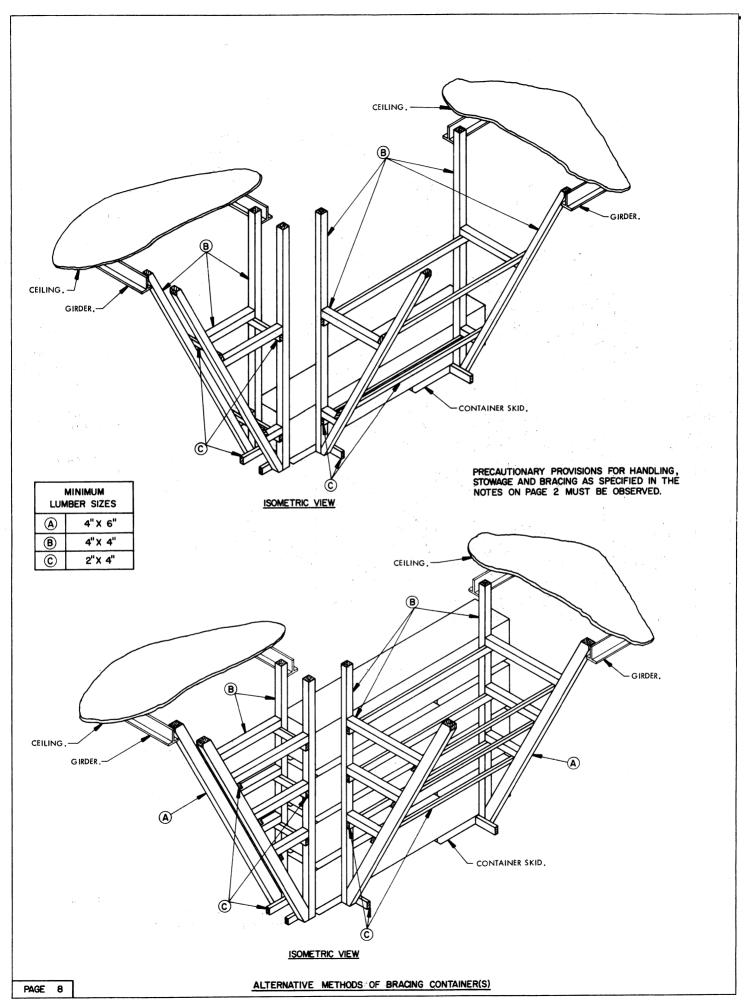
ATTACHMENT OF HANDLING SLING TO CONTAINER(S)

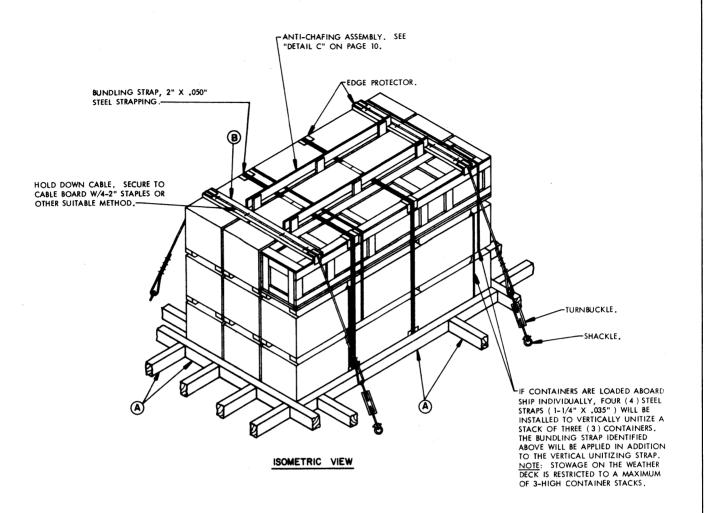












MINIMUM							
LUMBER SIZES							
(A)	4" X 6"						
B	2" X 6"						

PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.

