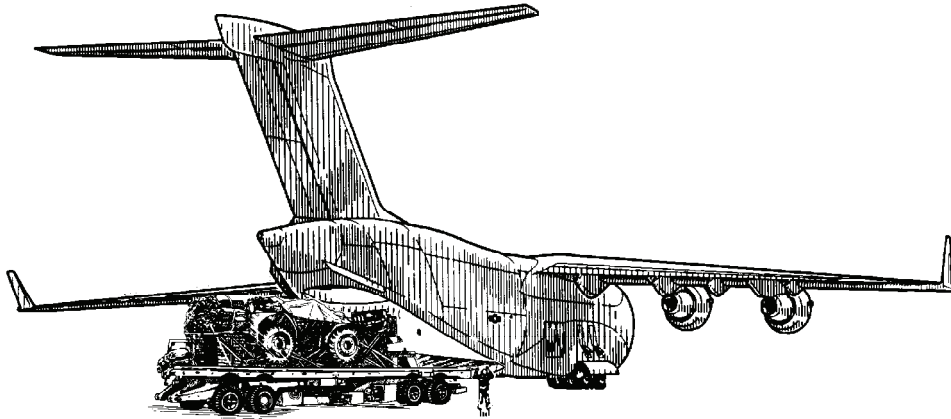


FM 4-20.152 (FM 10-552)
TO 13C7-22-61

**Airdrop of Supplies and Equipment:
Rigging Dragon and Javelin Missiles**

SEPTEMBER 2007



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Headquarters, Department of the Army
Department of the Air Force

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AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING DRAGON AND JAVELIN MISSILES

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Preface

SCOPE

This manual tells and shows how to prepare and rig the Dragon and Javelin antitank/assault missiles for low-velocity airdrop from C-130 or C-17 aircraft. This manual is designed for all parachute riggers.

USER INFORMATION

The proponent of this publication is the United States Training and Doctrine Command TRADOC. You are encouraged to report any errors or omissions and to suggest ways of making this a better manual. Army personnel, send your comments on DA Form 2028 directly to:

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Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men

Introduction

DESCRIPTION OF ITEMS

The descriptions of the items rigged in this manual are given below:

Dragon or Dragon II Missiles

- Nine one-round containers are rigged in an A-22 cargo bag on a standard skid for a low-velocity airdrop.
- One 15-round container is rigged in an A-22 cargo sling on a standard skid for a low-velocity airdrop.
- Thirty-six one-round containers are rigged on an 8-foot type V platform for a low-velocity airdrop.
- Four 15-round containers are rigged on an 8-foot type V platform for a low-velocity airdrop.
- Four A-22 cargo bags with nine one-round containers in each A-22 cargo bag are rigged on an 8-foot type V platform for low-velocity airdrop.
- Four A-22 cargo slings with four 15-round containers are rigged on an 8-foot type V platform for low-velocity airdrop.

Javelin Missiles

- Rigging Two-Round A-7A door bundle for low-velocity airdrop.
- Rigging Four-Round A-7A door bundle for low-velocity airdrop.
- Rigging Nine-Round Container Delivery System (CDS) rigged in an A-22 stretch container for low-velocity airdrop.
- Rigging Javelin Missile Containers (plastic) in an A-22 container cargo bag assembly for low-velocity airdrop.
- Rigging thirty-Six Javelin Rounds as a mass supply load on a 12-foot type V, platform for low-velocity airdrop.
- Rigging Javelin Missile Containers (plastic) on an 8-foot, type V platform for low-velocity airdrop.
- Rigging Javelin Missile Containers on a 16-foot, type V platform for low-velocity airdrop.

SPECIAL CONSIDERATIONS

Special considerations for this manual are given below.

- The loads covered in this manual may include hazardous materials as defined in AFMAN(I) 24-204/TM 38-250. If included, the hazardous materials must be packaged, marked, and labeled as required by AFMAN(I) 24-204/TM 38-250.

CAUTION

Only ammunition listed in FM 4-20.153/MCRP 4-11.3B/TO 13C7-18-41 may be airdropped.

- A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspection.

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Chapter 1

Rigging Dragon Missiles in an A-22 Cargo Bag

SECTION I-RIGGING NINE ONE-ROUND CONTAINERS

DESCRIPTION OF LOAD

1-1. Nine one-round containers (Figure 1-1) are rigged in an A-22 cargo bag on a standard skid. Each container is 47 ½ inches long, 16 inches wide, 16 inches high, and weighs 67 pounds. The rigged load uses either one G-12 or three G-14 cargo parachutes for low-velocity airdrop from a C-130 or C-17 aircraft.

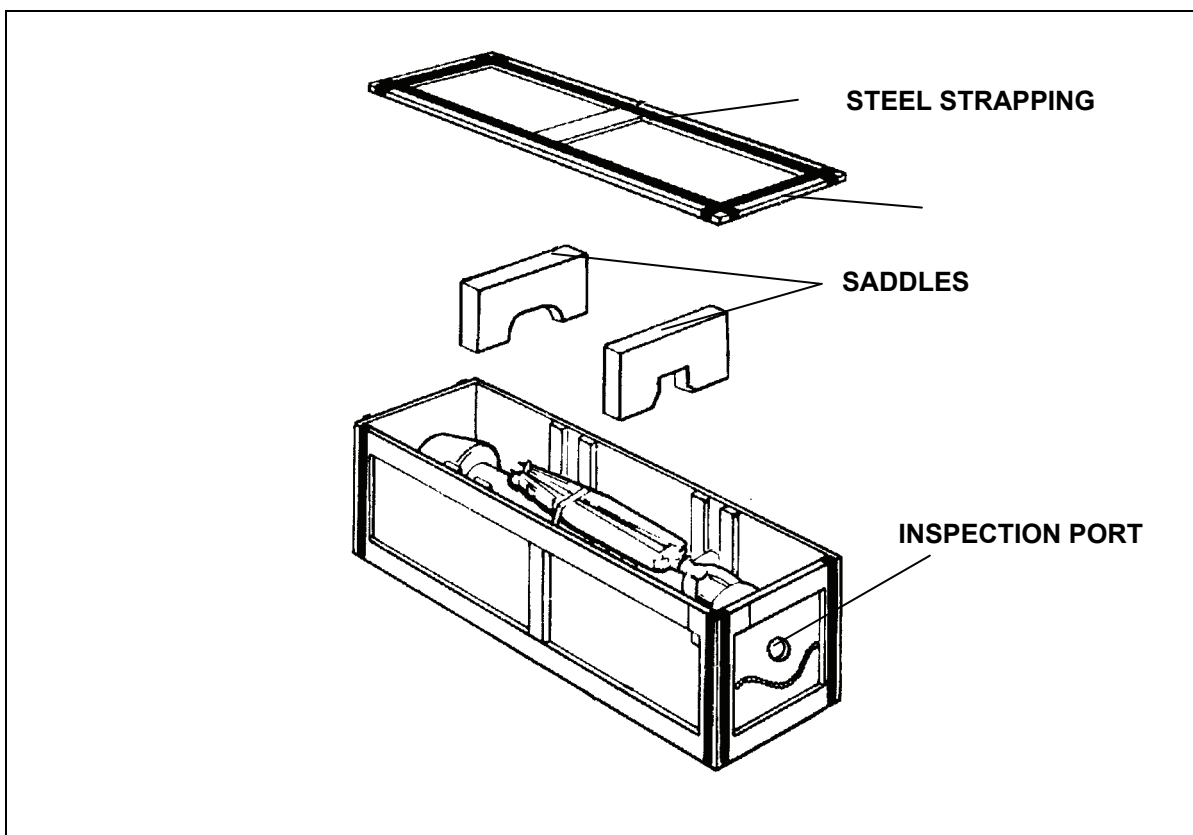
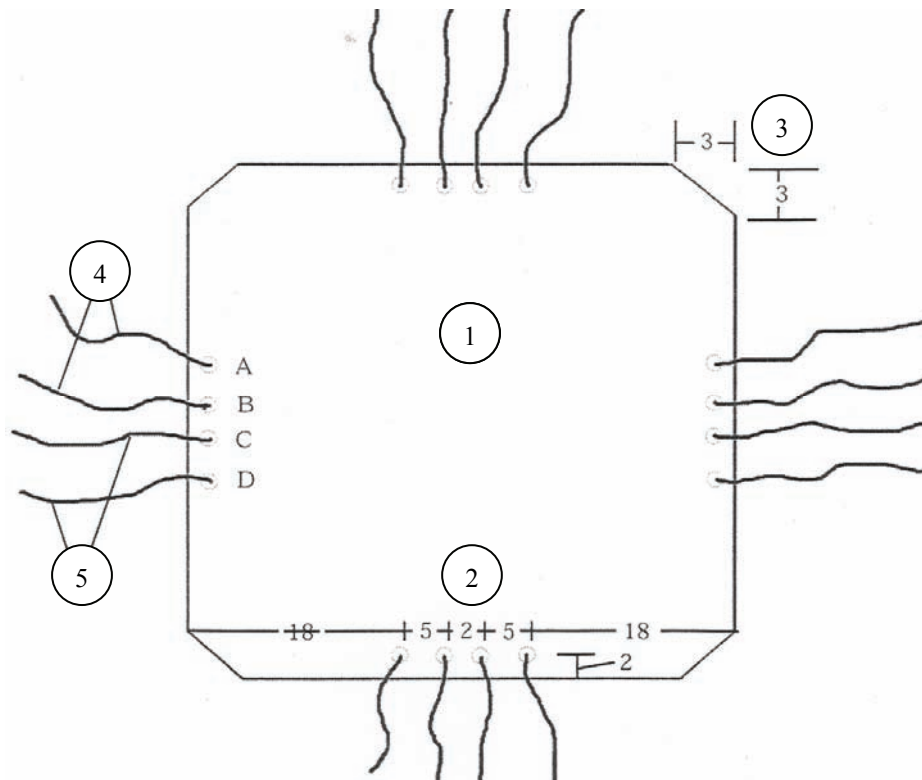


Figure 1-1. Dragon Missile in a One-Round Container

RIGGING LOAD

1-2. Rig nine one-round containers in an A-22 cargo bag according to FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11 and as shown in Figures 1-2 through 1-4.

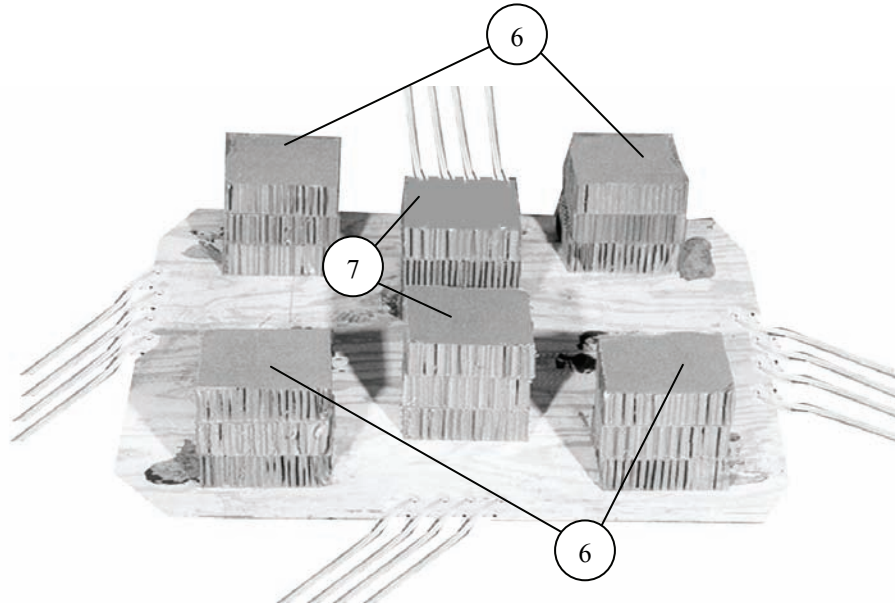
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2. This drawing is not drawn to scale.



1. Place a 3/4- or 1- by 48- by 48-inch piece of plywood on a flat surface.
2. Drill four 1/2-inch holes on each side as shown above.
3. Measure 3 inches in from each corner of the skid board and make a diagonal cut.
4. Cut eight 8-foot lengths of 1/2-inch tubular nylon webbing. Route one length through hole A from the bottom and the other end through hole B from the bottom. Even the ends.
5. Repeat step 4 for holes C and D and remaining sides.

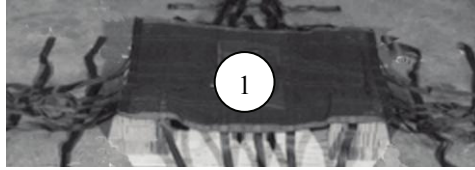
Figure 1-2. Skid Prepared and Honeycomb Stacks Positioned

Note. All dimensions are in inches.



6. Make six honeycomb stacks using three layers of 9- by 9-inch honeycomb, and glue the layers together. Position and glue the corner stacks 3 inches in from the sides of the skid.
7. Position the center stacks 10 inches in from the skid board edges and center between the sides. Glue the stacks in place.

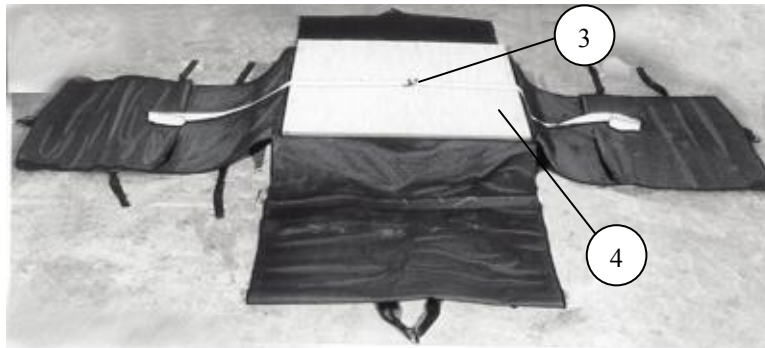
Figure 1-2. Skid Prepared and Honeycomb Stacks Positioned (Continued)



1. Center the A-22 sling assembly on the stacks with the outside of the sling down.



2. Center the A-22 cover on the sling assembly with the outside of the cover down.



3. Center a 3/4- by 48 by 48-inch piece of plywood on the cover.
4. Form a 30-foot lashing according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and lay the strap across the center of the plywood from side to side.

Figure 1-3. Cargo Bag, Plywood, and Tiedown Strap Positioned

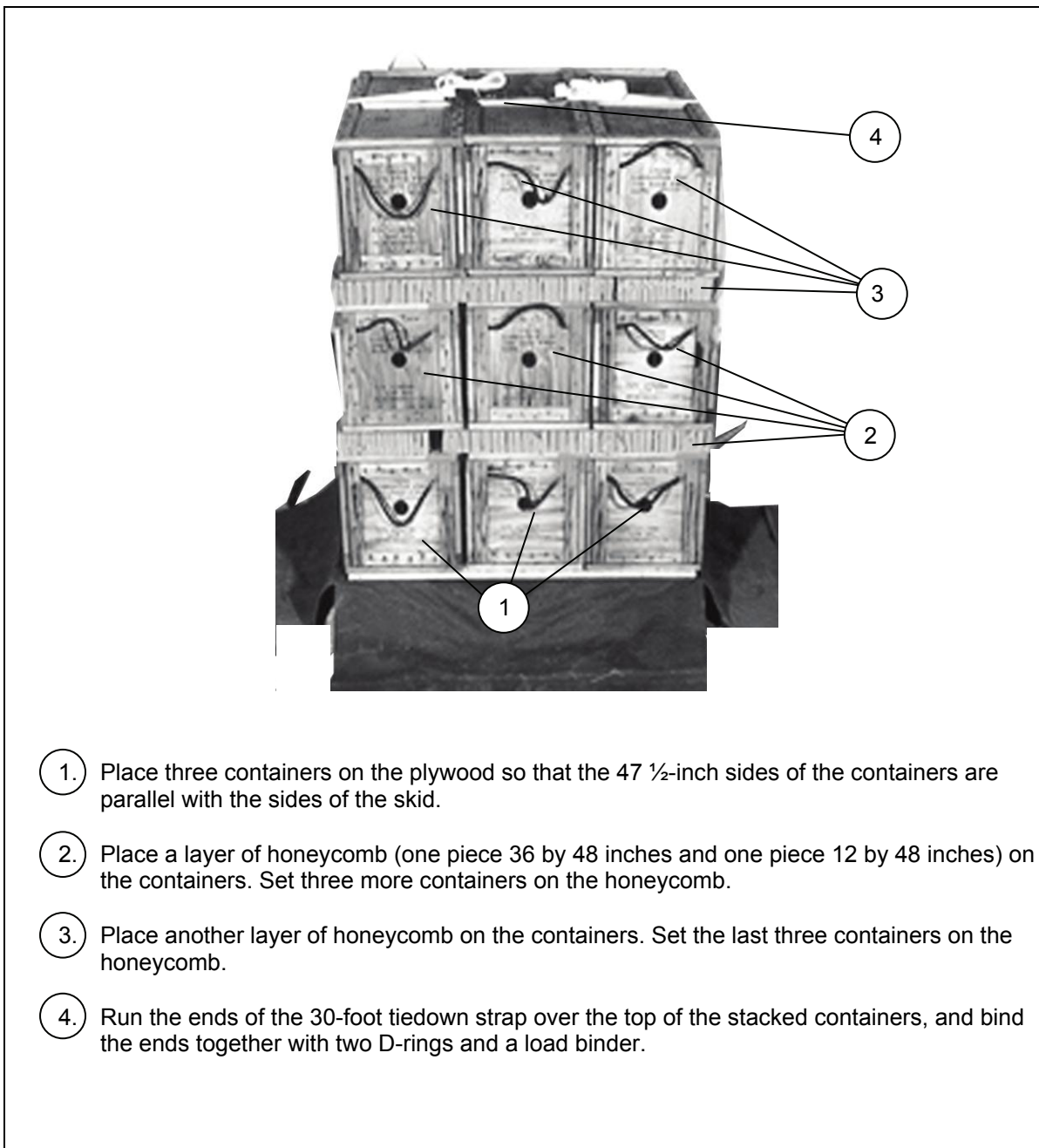


Figure 1-4. Nine One-Round Containers Positioned

CLOSING CARGO BAG

1-3. Close the A-22 cargo bag according to the steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

INSTALLING PARACHUTES

1-4. Prepare and stow one G-12 cargo parachute with a 68-inch pilot parachute or three G-14 cargo parachutes according to FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

Note. This rigged A-22 cargo bag weighs 863 pounds. It is 81 inches high, 53 ½ inches wide, and 48 inches long.

EQUIPMENT REQUIRED

1-5. The equipment needed to rig nine one-round containers is listed in Table 1-1.

Table 1-1. Equipment Required for Rigging Nine One-Round Containers in an A-22 Cargo Bag for Low-Velocity Airdrop

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste 1-gallon	As required
8465-00-587-3421	Bag, cargo, aerial delivery, type A-22	1
4030-00-678-8562	Clevis Assembly, suspension, cargo	1
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-217-2421	Link Assembly, parachute connector, removable, L Bar	3
1670-00-753-3928	Pad, energy-dissipating, honeycomb	2 sheets
1670-00-216-7297	Pilot Chute, cargo type, 68-in diam	1
1670-00-999-2658	Parachute, cargo, 34-foot, G-14	3
1670-01-065-3755	Parachute, cargo, 64-foot, G-12	1
5530-00-128-4981	Plywood, 3/4- by 48- by 48-inch	1 sheet
1670-00-883-1654	Skid, cargo bag, platform	1
1670-00-738-5878	Strap, connector, extraction, 60-inch	3
1670-00-738-5879	Strap, connector, extraction, 120-inch	3
8305-00-082-5752	Tape, adhesive, 2-inch	As required
8305-00-263-3591	Tie-down assembly, 15-foot	2
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
8305-00-082-5752	Nylon: Tubular, 1/2-inch	As required

SECTION II-RIGGING ONE 15-ROUND CONTAINER

DESCRIPTION OF LOAD

1-6. One 15-round container (Figure 1-5) is rigged in an A-22 cargo sling on a standard skid. The container is 49 inches long, 37 inches wide, 67 inches high, and weighs 695 pounds. The rigged load uses either one G-12, or three G-14 cargo parachutes. The rigged load also uses four extra suspension webs.

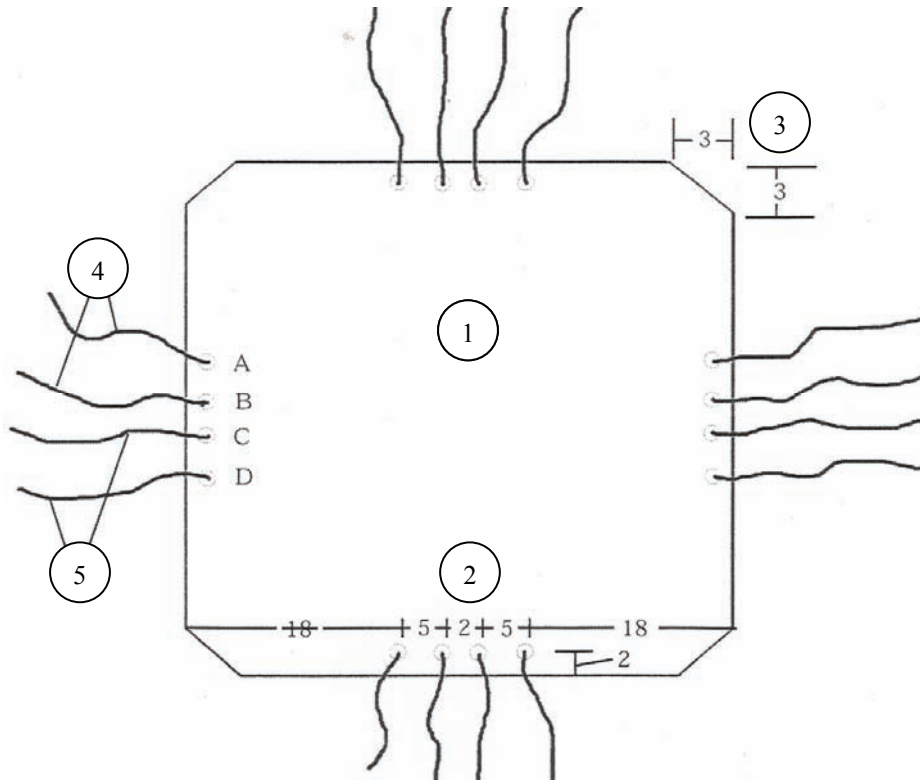


Figure 1-5. One 15-Round Dragon Missile Container

RIGGING LOAD

1-7. Rig one 15-round Dragon missile container in an A-22 cargo sling assembly according to FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11 and as shown in Figures 1-6 through 1-8.

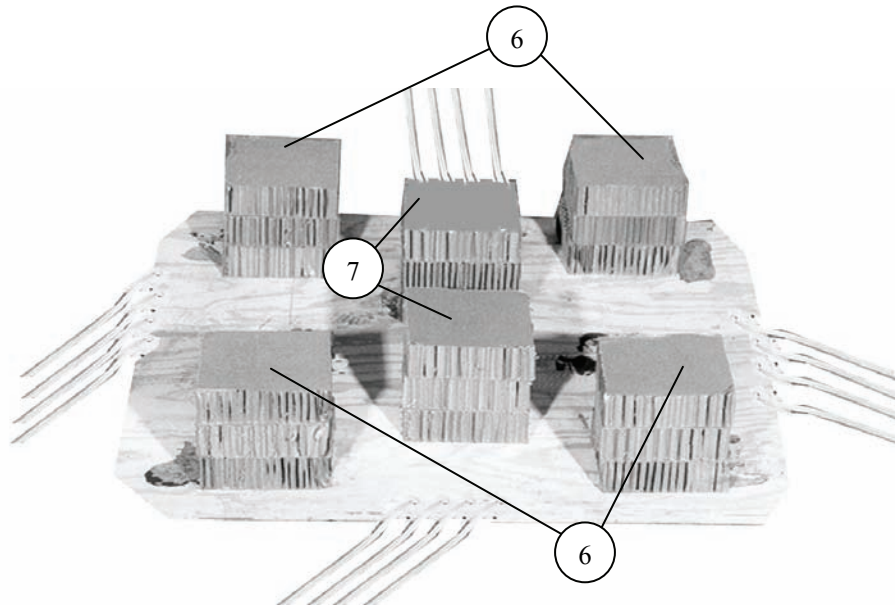
- Notes.** 1. All dimensions are in inches.
2. This drawing is not drawn to scale.



1. Place a 3/4- or 1- by 48- by 48-inch piece of plywood on a flat surface.
2. Drill four 1/2-inch holes on each side as shown above.
3. Measure 3 inches in from each corner of the skid board and make a diagonal cut.
4. Cut eight 8-foot lengths of 1/2-inch tubular nylon webbing. Route one length through hole A from the bottom and the other end through hole B from the bottom. Even the ends.
5. Repeat step 4 for holes C and D and remaining sides.

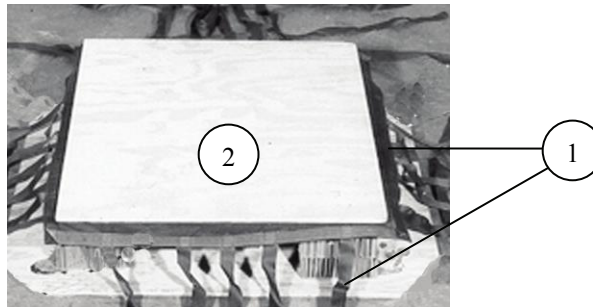
Figure 1-6. Skid Prepared and Honeycomb Stacks Positioned

Note. All dimensions are in inches.



6. Make six honeycomb stacks using three layers of 9- by 9-inch honeycomb, and glue the layers together. Position and glue the corner stacks 3 inches in from the sides of the skid.
7. Position the center stacks 10 inches in from the skid board edges and center between the sides. Glue the stacks in place.

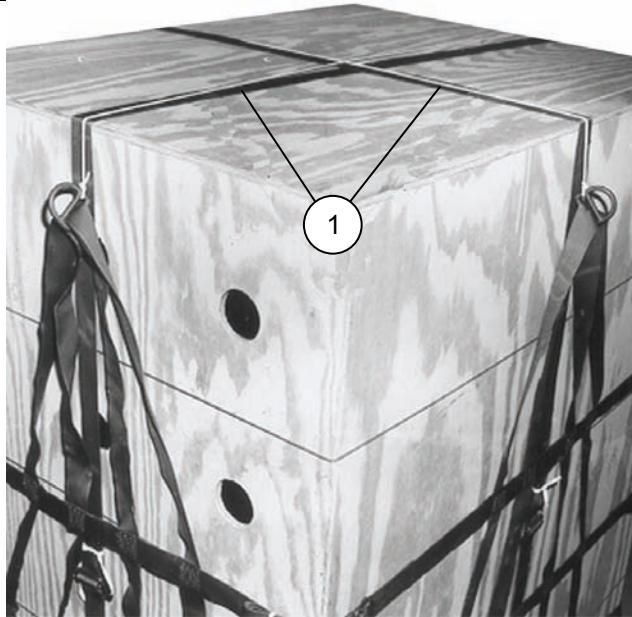
Figure 1-6. Skid Prepared and Honeycomb Stacks Positioned (Continued)



1. Center the A-22 sling assembly on the stacks with the outside of the sling down and the long side of the scuff pad parallel with the side of the skid.
2. Center a 3/4- by 38- by 48-inch piece of plywood on the scuff pad.

Note. Set the container on the plywood. Close the A-22 cargo sling by following the steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

Figure 1-7. A-22 Cargo Sling and Plywood Positioned



1. Tie the D-ring on the front support web to the D-ring on the rear support web with type III nylon cord. Tie the D-rings of the side support webs together using type III nylon cord.



2. Snap another suspension web to each normally rigged suspension web. This gives a two-suspension web length snapped onto the D-rings. Make sure that the open side of the connector snaps face inward. Tape all connector snaps.

Figure 1-8. Container Positioned, and Cargo Sling Closed

CLOSING CARGO BAG

1-8. Close the A-22 cargo bag according to the steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

INSTALLING PARACHUTES

1-9. Prepare and stow one G-12 cargo parachute with a 68-inch pilot parachute or three G-14 cargo parachutes according to FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

Note. This A-22 cargo sling weighs 925 pounds. It is 95 inches high, 53 ½ inches wide, and 49 inches long.

EQUIPMENT REQUIRED

1-10. The equipment needed to rig one 15-round container is listed in Table 1-2.

Table 1-2. Equipment Required for Rigging One 15-Round Container in an A-22 Cargo Bag for Low-Velocity Airdrop.

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste 1-gal	As required
8465-00-587-3421	Bag, cargo, aerial delivery, type A-22	1
4030-00-678-8562	Clevis Assembly, suspension, cargo	1
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-217-2421	Link Assembly, parachute connector, removable, L Bar	3
1670-00-753-3928	Pad, energy-dissipating, honeycomb	1 sheet
1670-00-216-7297	Pilot Chute, cargo type, 68-in diameter	1
1670-00-999-2658	Parachute, cargo, 34-ft, G-14	3
1670-01-065-3755	Parachute, cargo, 64-ft, G-12	1
5530-00-128-4981	Plywood, 3/4- by 38- by 48-in	1 sheet
1670-00-883-1654	Skid, cargo bag, platform	1
1670-00-738-5878	Strap, connector, extraction, 60-in	3
1670-00-738-5879	Strap, connector, extraction, 120-in	3
1670-00-360-0560	Strap, webbing, suspension, A-22 cargo bag	8
8305-00-082-5752	Tape, adhesive, 2-inch	As required
8305-00-263-3591	Tie-down assembly, 15-foot	2
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
8305-00-082-5752	Nylon: Tubular, 1/2-inch	As required

Chapter 2

Rigging Dragon or Dragon II Missile Containers on an 8-Foot, Type V Platform for Low-Velocity Airdrop

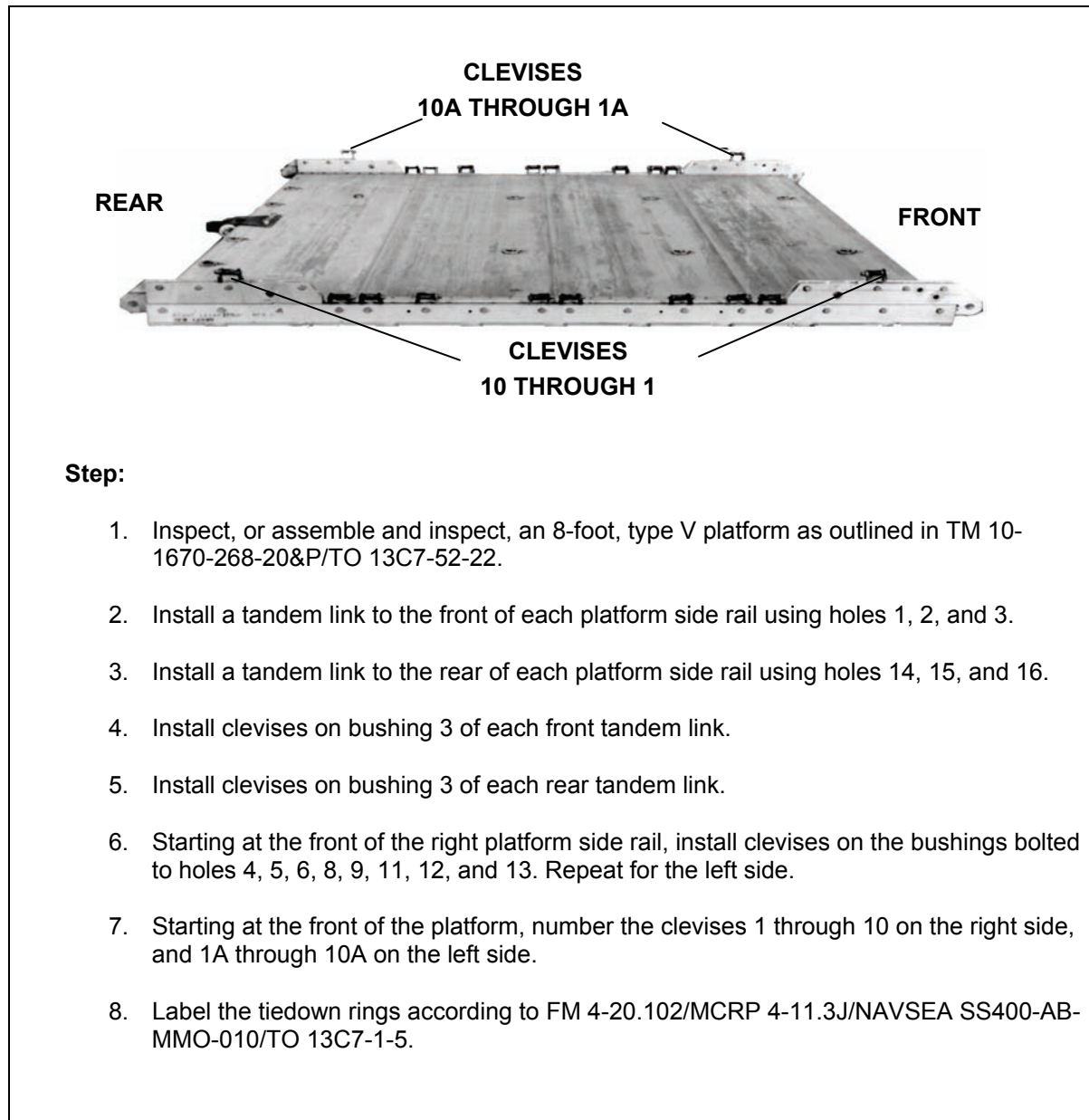
SECTION I-RIGGING 36 ONE-ROUND CONTAINERS

DESCRIPTION OF LOAD

2-1. Thirty-six Dragon II missiles in one-round containers are rigged on an 8-foot, type V platform with one G-11 cargo parachute for low-velocity airdrop (LVAD) from a C-130 or C-17 aircraft. Each container is 47 ½ inches long, 16 inches wide, 16 inches high, and weighs 67 pounds.

PREPARING PLATFORM

2-2. Prepare an 8-foot, type V platform using 4 tandem links and 20 clevises as shown in Figure 2-1.



Step:

1. Inspect, or assemble and inspect, an 8-foot, type V platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link to the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link to the rear of each platform side rail using holes 14, 15, and 16.
4. Install clevises on bushing 3 of each front tandem link.
5. Install clevises on bushing 3 of each rear tandem link.
6. Starting at the front of the right platform side rail, install clevises on the bushings bolted to holes 4, 5, 6, 8, 9, 11, 12, and 13. Repeat for the left side.
7. Starting at the front of the platform, number the clevises 1 through 10 on the right side, and 1A through 10A on the left side.
8. Label the tiedown rings according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

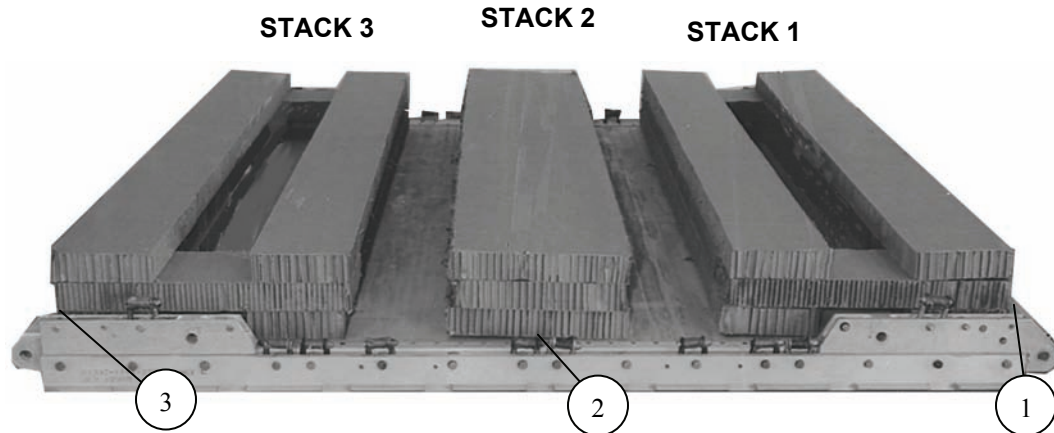
Figure 2-1. Platform Prepared

BUILDING AND PLACING HONEYCOMB STACKS

2-3. Prepare and position the honeycomb stacks as shown in Figure 2-2.

Notes.

1. Measurements from the front of the platform are taken from the front edge of the first panel.
2. Measurements from the rear edge of the platform are taken from the rear edge of the last panel.



1. Build the first stack by using the following pieces of honeycomb, and position the honeycomb flush with the front edge of the platform.

4 pieces	10- by 96-inches	(1 st and 3 rd layers)
2 pieces	10- by 76-inches	(2 nd layer)
2 pieces	10- by 29-inches	(2 nd layer bridge)
2. Build the second stack by using three pieces of honeycomb (18- by 96-inch). Center the stack over the joint where the second and third panels join together and between the side rails.
3. Build the third stack by repeating step 1 above, and position the honeycomb flush with the rear edge of the platform.

Figure 2-2. Honeycomb Stacks Positioned

POSITIONING AND LASHING MISSILE CONTAINER GROUPS 1 THROUGH 4

2-4. Position and lash the missile container groups 1 through 4 as shown in Figures 2-3 through 2-5.

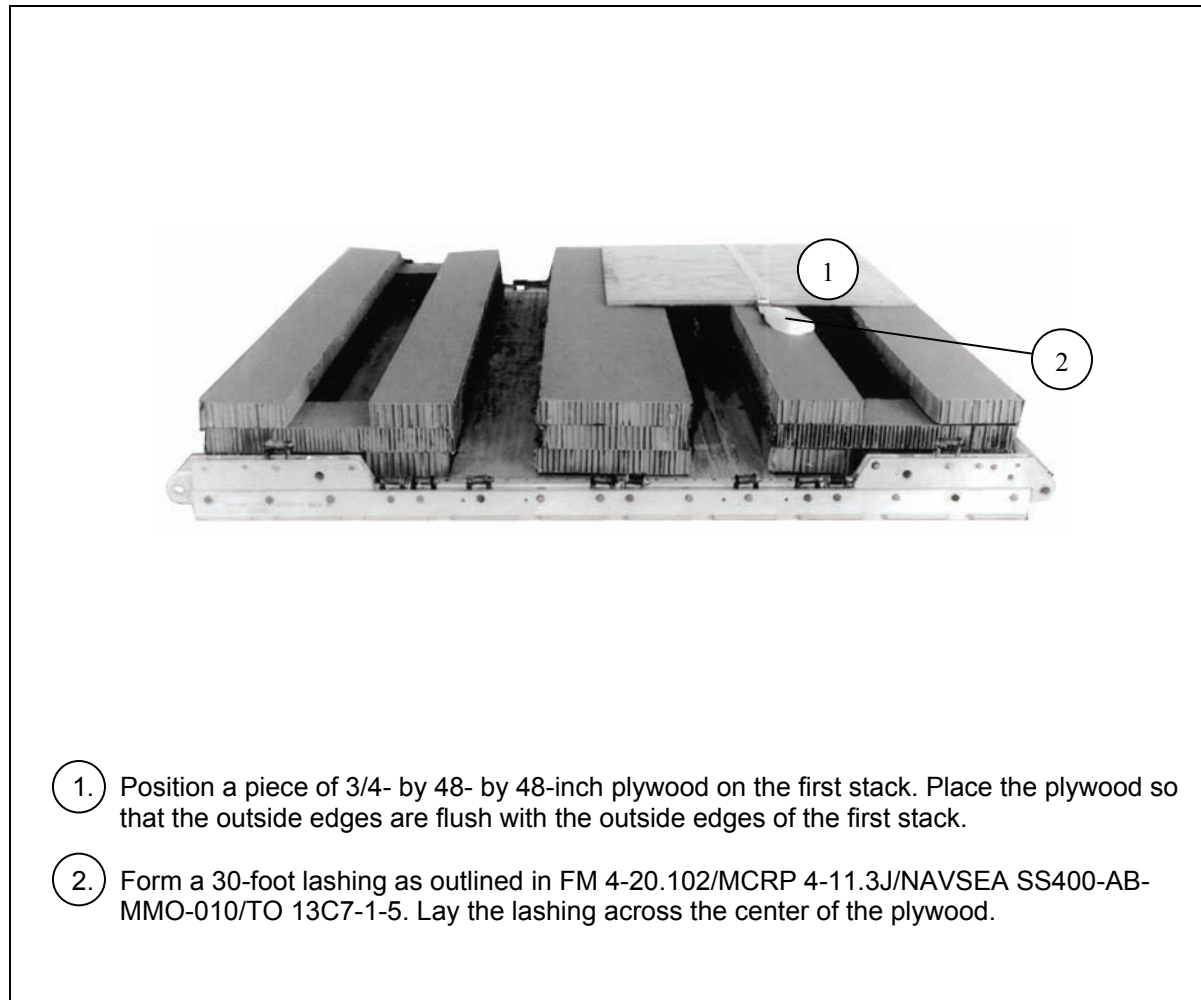
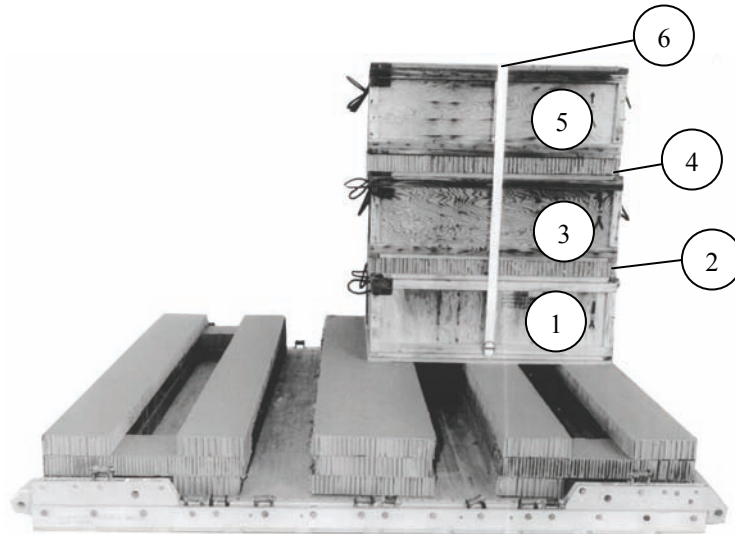


Figure 2-3. Plywood and Lashing Positioned

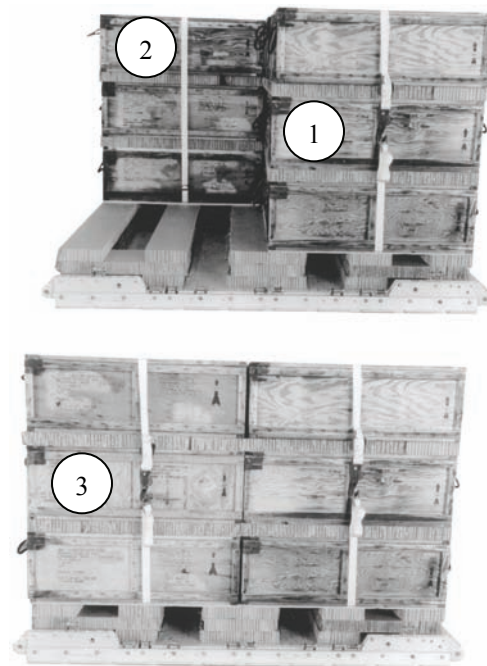
CAUTION

Make sure the inspection port holes in the missile containers face the front and rear of the platform.



1. Set three containers side by side on the plywood and lashing.
2. Position one layer of honeycomb (one piece 36 by 48 inches and one piece 12 by 48 inches) on the containers.
3. Set three more containers on the honeycomb layer.
4. Position another layer of honeycomb (one piece 36 by 48 inches and one piece 12 by 48 inches) on the containers.
5. Set the last three containers on the honeycomb layer.
6. Bind the nine missile containers together with the 30-foot lashing. Secure the lashing on the side of the containers with two D-rings and a load binder.

Figure 2-4. First Missile Container Group Positioned, Stacked, and Lashed



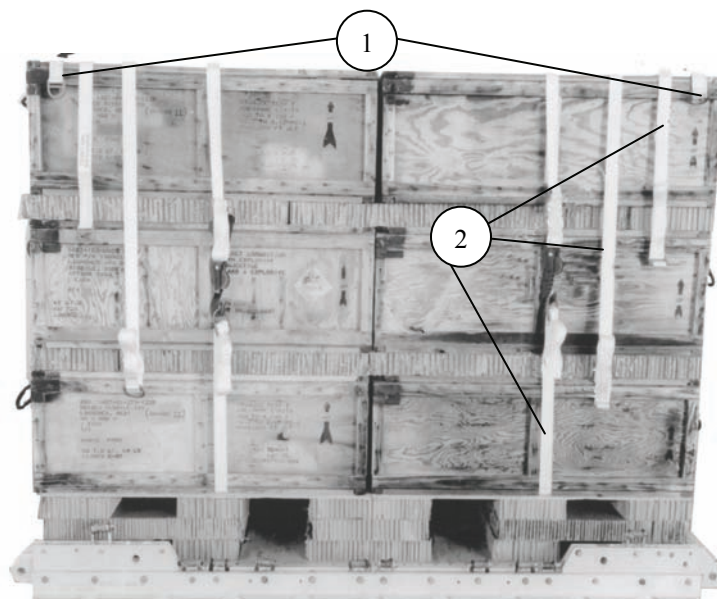
1. Position the second group of containers following the steps in Figures 2-3 and 2-4.
2. Position the third group of containers following the steps in Figures 2-3 and 2-4; however, place the plywood on the center and third stacks and flush with the outside edge of the third stack.
3. Position the fourth group of containers following the steps in Figures 2-3 and 2-4; however, place the plywood on the center and third stacks and flush with the outside edge of the third stack.

Figure 2-5. Missile Container Groups 2 and 3 and Positioned and Lashed

POSITIONING AND LASHING MISSILE CONTAINERS

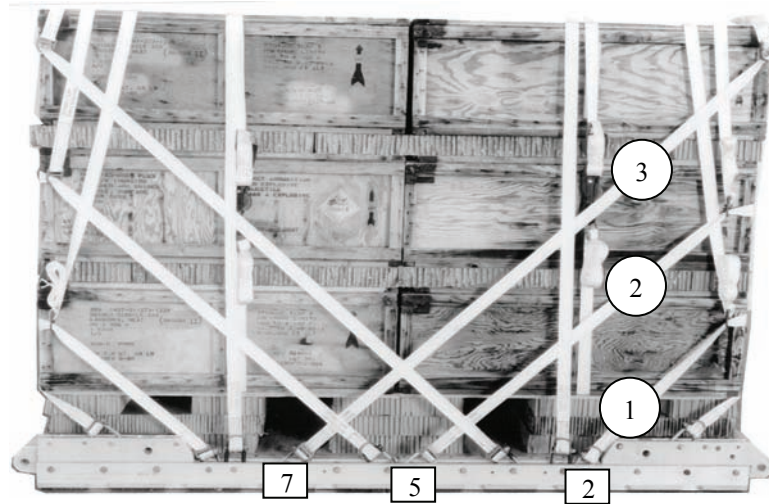
2-5. Position the lashings as shown in Figure 2-6 and lash the containers to the platform as shown in Figures 2-7 through 2-9. Install and safety the lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

Note. Make sure all corners and sharp edges are padded.



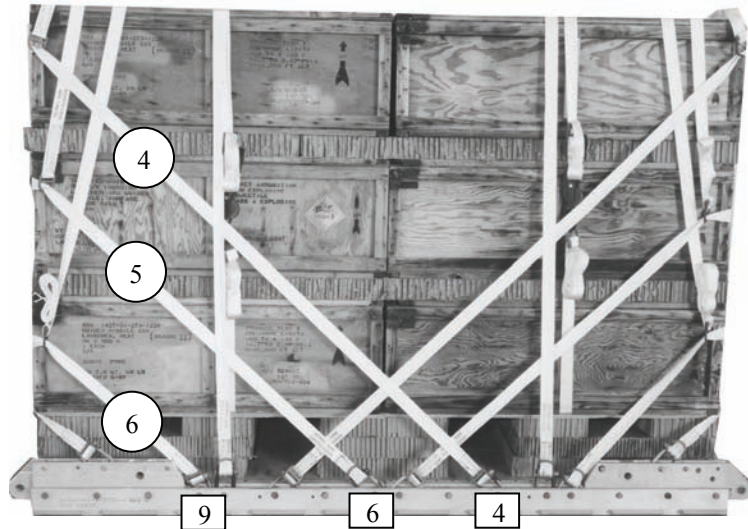
1. Form two 30-foot lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Lay two 15-foot lashings and one 30-foot lashing across both the front and rear edges of the container groups.
2. Fit a D-ring to each lashing and adjust the length of the straps to center each D-ring with a layer of containers.

Figure 2-6. Lashings Positioned



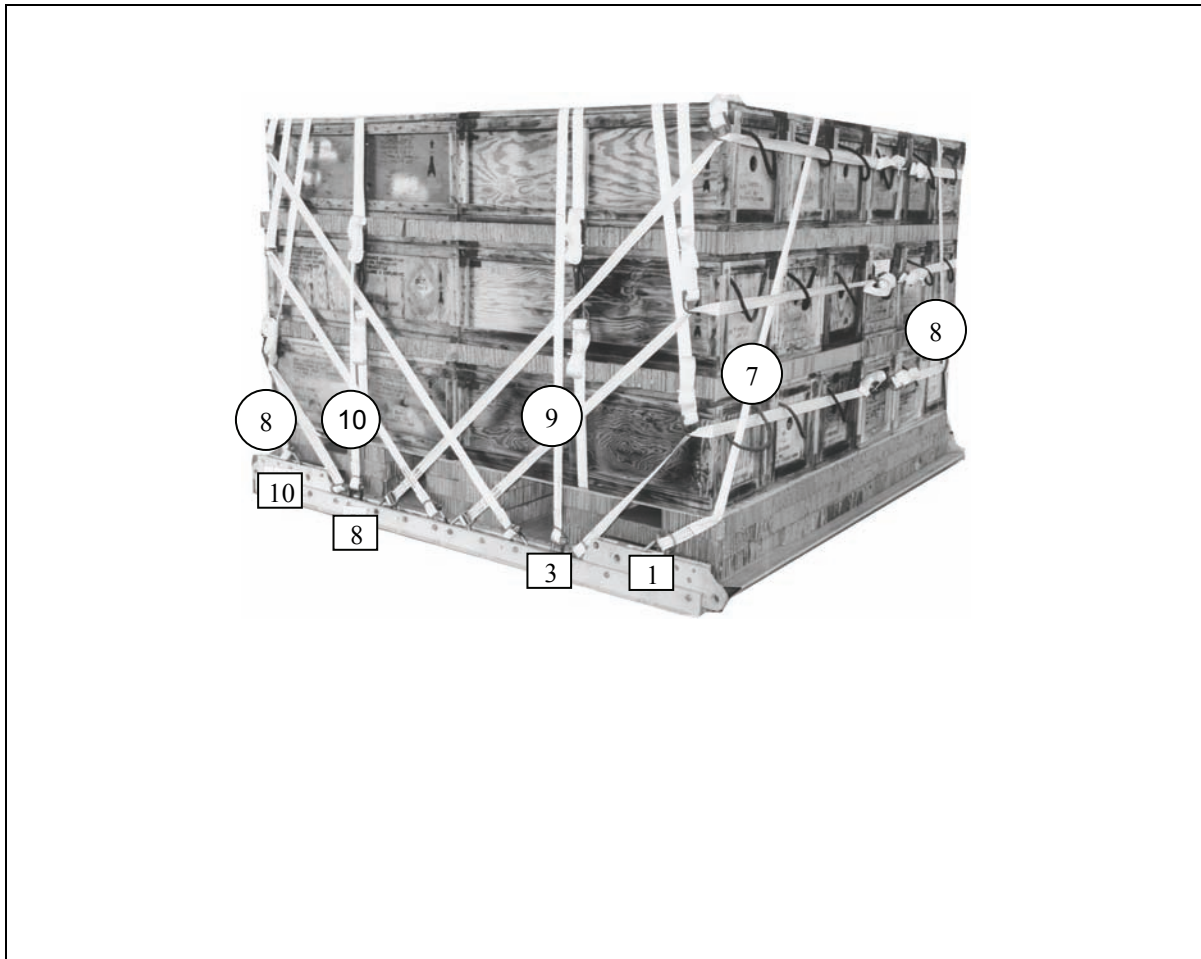
Lashing Number	Tiedown Clevis Number	Instructions
1	2 and 2A	Run a 15-foot lashing from clevis 2 and a 15-foot lashing from clevis 2A. Pass the lashings through the D-rings and containers carrying handles centered on the bottom container layer. Secure the lashings on the front using two D-rings and a load binder.
2	5 and 5A	Run a 15-foot lashing from clevis 5 and a 15-foot lashing from clevis 5A. Pass the lashings through the D-rings and containers carrying handles centered on the middle container layer. Secure the lashings on the front using two D-rings and a load binder.
3	7 and 7A	Run a 15-foot lashing from clevis 7 and a 15-foot lashing from clevis 7A. Pass the lashings through the D-rings and containers carrying handles centered on the top container layer. Secure the lashings on the front using two D-rings and a load binder.

Figure 2-7. Lashings 1 through 3 Installed



Lashing Number	Tiedown Clevis Number	Instructions
4	4 and 4A	Run a 15-foot lashing from clevis 4 and a 15-foot lashing from clevis 4A. Pass the lashings through the D-rings and containers carrying handles centered on the top container layer. Secure the lashings on the rear using two D-rings and a load binder.
5	6 and 6A	Run a 15-foot lashing from clevis 6 and a 15-foot lashing from clevis 6A. Pass the lashings through the D-rings and containers carrying handles centered on the middle container layer. Secure the lashings on the rear using two D-rings and a load binder.
6	9 and 9A	Run a 15-foot lashing from clevis 9 and a 15-foot lashing from clevis 9A. Pass the lashings through the D-rings and containers carrying handles centered on the bottom container layer. Secure the lashings on the rear using two D-rings and a load binder.

Figure 2-8. Lashings 4 through 6 Installed



Lashing Number	Tiedown Clevis Number	Instructions
7	1 and 10A	Run a 15-foot lashing from clevis 1 and a 15-foot lashing from clevis 10A. Pass the lashings around the bottom ends of the containers and through the bottom and top containers carrying handles and up over the load. Secure the lashings on the top using two D-rings and a load binder.
8	1A and 10	Run a 15-foot lashing from clevis 1A and a 15-foot lashing from clevis 10. Pass the lashings around the bottom ends of the containers and through the bottom and top containers carrying handles and up over the load. Secure the lashings on the top using two D-rings and a load binder.
9	3 and 3A	Run a 15-foot lashing from clevis 3 and a 15-foot lashing from clevis 3A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
10	8 and 8A	Run a 15-foot lashing from clevis 8 and a 15-foot lashing from clevis 8A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.

Figure 2-9. Lashings 7 through 10 Installed

INSTALLING SUSPENSION SLINGS AND DEADMAN'S TIE

2-6. Install and safety four 16-foot (2-loop), type XXVI nylon slings and four large clevises. Attach each suspension sling to a clevis and attach one clevis to all four tandem links as shown in Figure 2-10.

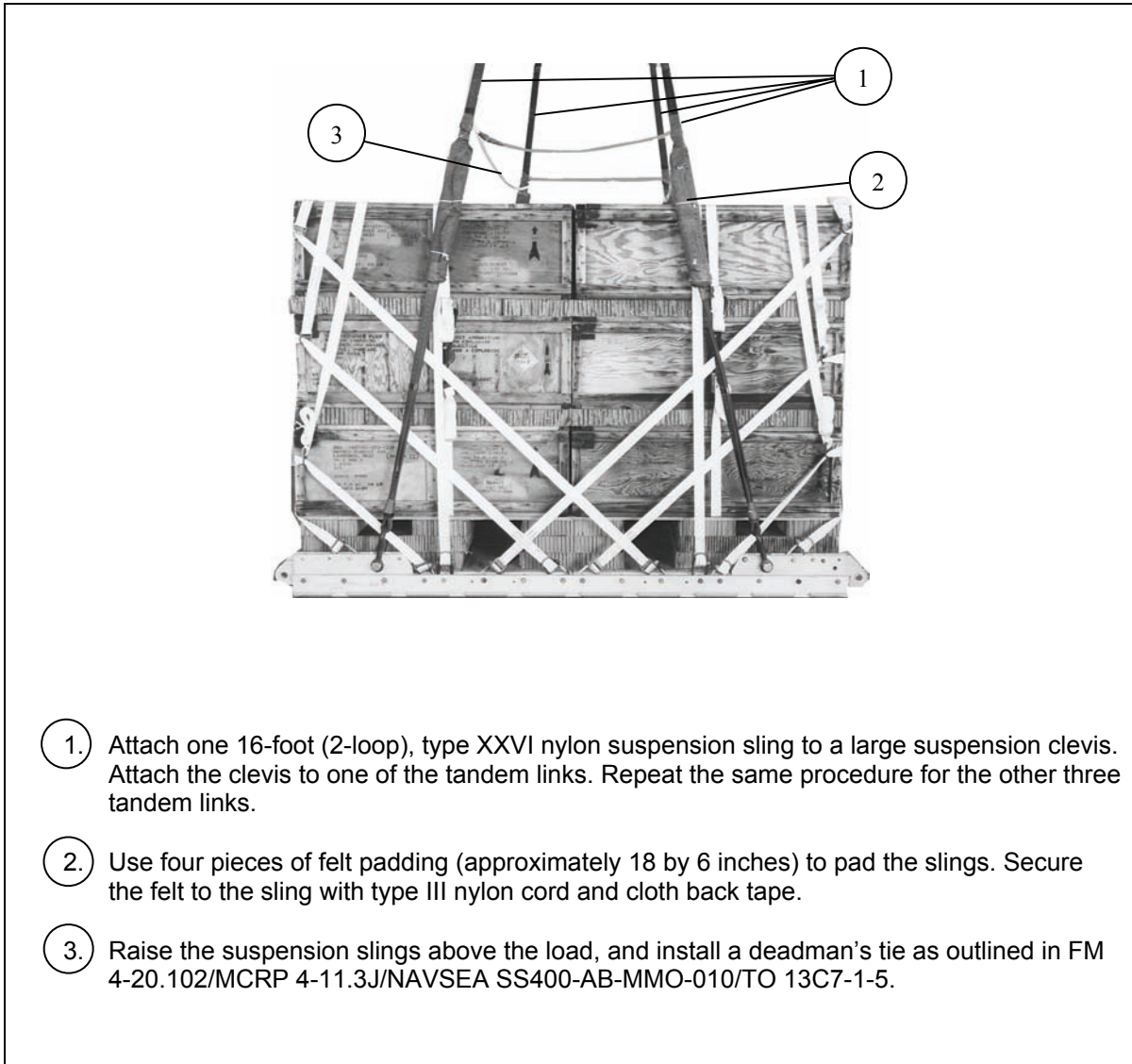
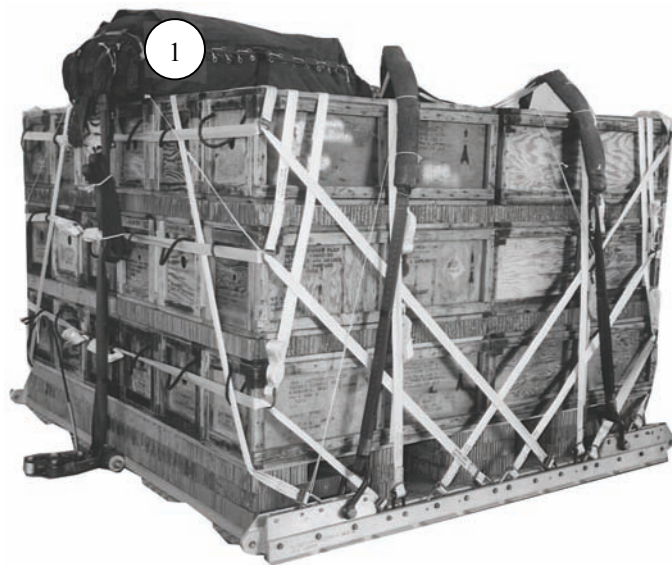


Figure 2-10. Suspension Slings and Deadman's Tie Installed

STOWING CARGO PARACHUTE

2-7. Stow one G-11B cargo parachute as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-11.

Note. Use a 12-foot (2-loop), type XXVI nylon sling as a deployment line.



1. Prepare, place, and secure one G-11B cargo parachute according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

Figure 2-11. Cargo Parachute Stowed and Secured to Load

INSTALLING EXTRACTION SYSTEM

2-8. Attach the components of the Extraction Force Transfer Coupling (EFTC) according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-12.

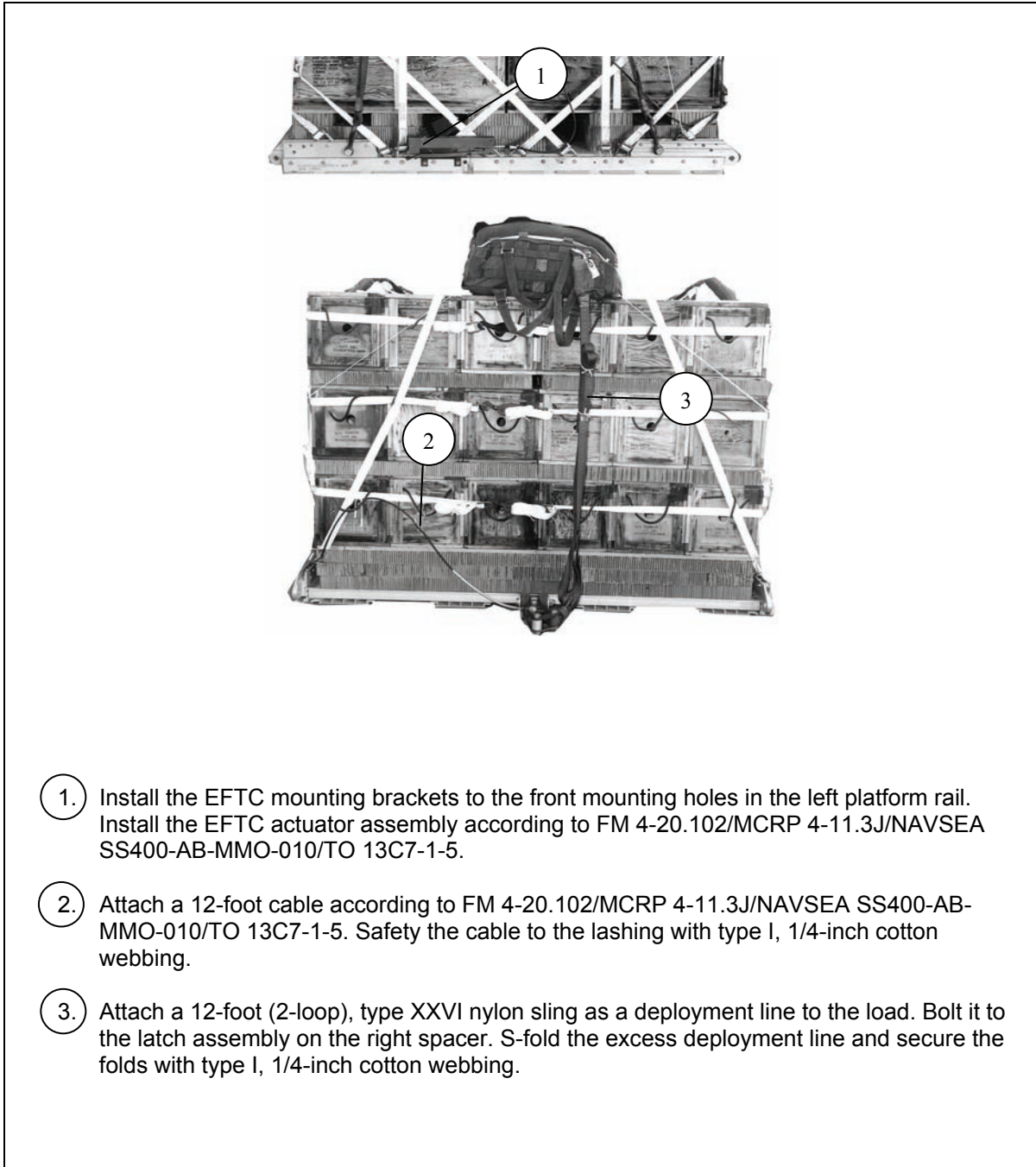
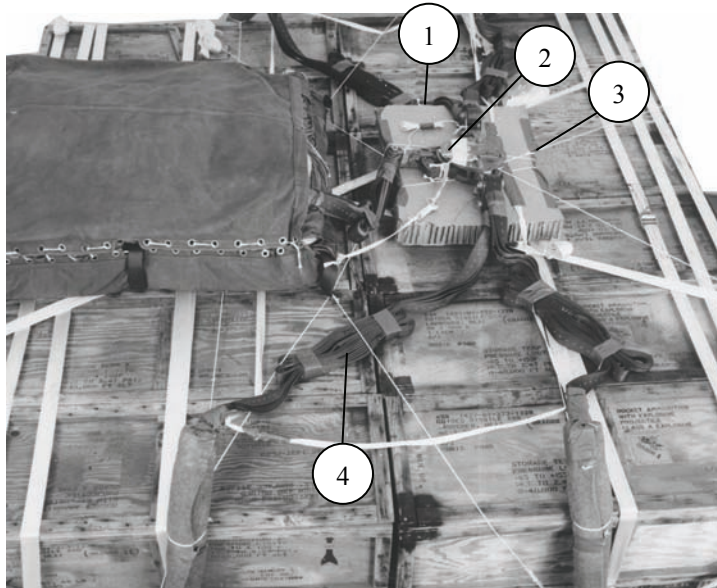


Figure 2-12. EFTC Installed

INSTALLING PARACHUTE RELEASE

2-9. Prepare, attach, and safety an M-1 cargo parachute release according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-13.



1. Position an 18- by 24-inch piece of honeycomb on top of the load, and secure the honeycomb with type III nylon cord.
2. Place the M-1 release on top of the honeycomb, and attach the suspension slings and the parachute riser extensions.
3. Secure the M-1 release to the load with type III nylon cord.
4. S-fold and tape or tie any excess suspension slings.

Figure 2-13. M-1 Cargo Parachute Release Installed

PLACING EXTRACTION PARACHUTE

2-10. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Place the extraction parachute and line on the load for installation in the aircraft.

INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS

2-11. Select and install the provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

MARKING RIGGED LOAD

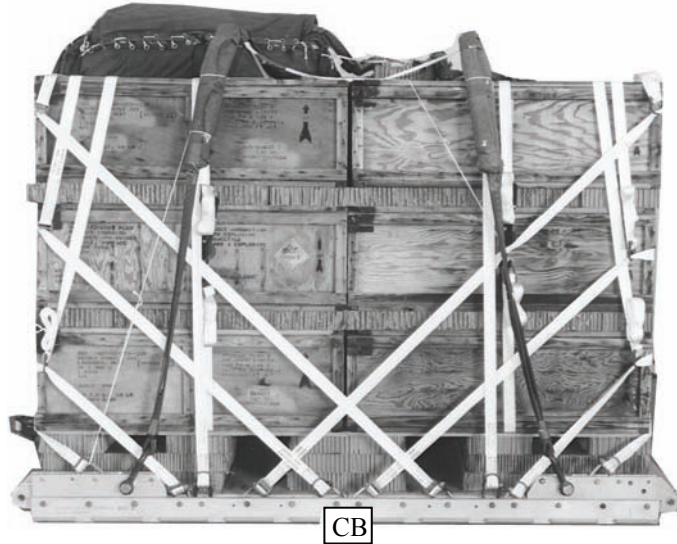
2-12. Mark the rigged load according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5, and as shown in Figure 2-14. Complete Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

EQUIPMENT REQUIRED

2-13. Use the equipment listed in Table 2-1 to rig this load.

CAUTION

Make the final rigger inspection required by AR 59-4 and FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown	3,960 pounds
Height	83 inches
Width.....	108 inches
Overall Length	96 inches
Overhang: Front	0 inches
Rear	0 inches
Center of Balance (from front edge of the platform).....	50 inches
Extraction System with 12-foot cable (adds 18 inches to length of platform)	EFTC

Figure 2-14. Thirty-Six One-Round Containers Rigged on an 8-Foot, Type V Platform for Low-Velocity Airdrop

Table 2-1. Equipment Required for Rigging 36 One-Round Dragon or Dragon II Missile Containers on an 8-Foot, Type V Platform for Low-Velocity Airdrop

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste, 1-gallon	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-inch (medium) emergency restraint	2
4030-00-090-5354	1-inch (large)	5
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer with 12-foot cable	1
1670-00-360-0328	Cover, clevis, large	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-inch thick	As required
1670-01-183-2678	Leaf, extraction line	1
	Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-foot (1-loop)	1
	Or	
1670-01-107-7652	160-foot (1-loop)	1
1670-01-064-4452	60-foot (1-loop), type XXVI for C-17 drogue line	1
	Link assembly, two-point:	
5306-00-435-8994	Bolt, 1-inch diameter, 4-inch long	1
5310-00-232-5165	Nut, 1-inch, hexagonal	1
1670-00-003-1953	Plate, side 3 3/4-inch	1
5365-00-007-3414	Spacer, large	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb	9 sheets
	Parachute:	
1670-01-016-7841	Cargo, G-11B	1
1670-01-063-3715	Cargo, extraction, 15-foot	1
	Platform, airdrop, type V, 8-foot	
1670-01-353-8425	Bracket assembly, EFTC	1
1670-01-162-2376	Bracket assembly, extraction	1
1670-01-162-2372	Clevis assembly	20
1670-01-162-2381	Tandem link	4
5530-00-128-4981	Plywood, 3/4-inch	2 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 2-1. Equipment Required for Rigging 36 One-Round Dragon or Dragon II Missile Containers on an 8-Foot, Type V Platform for Low-Velocity Airdrop (Continued)

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
	Sling, cargo airdrop:	
	For deployment line:	
1670-00-753-3792	12-foot (2-loop), type XXVI nylon webbing	1
	For riser extension:	
1670-01-062-6301	3-foot (2-loop), type XXVI nylon webbing	4
	For suspension:	
1670-01-063-7761	16-foot (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap parachute release, multicut	1
7515-00-266-5016	Tape, adhesive, 2-inch	As required
7501-00-266-6710	Tape, masking	As required
1670-00-937-0271	Tie-down assembly, 15-foot	36
1670-01-483-8259	Towplate release mechanism (H-block) (C-17)	1
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-inch	As required
8305-00-263-3591	Type VIII webbing	As required

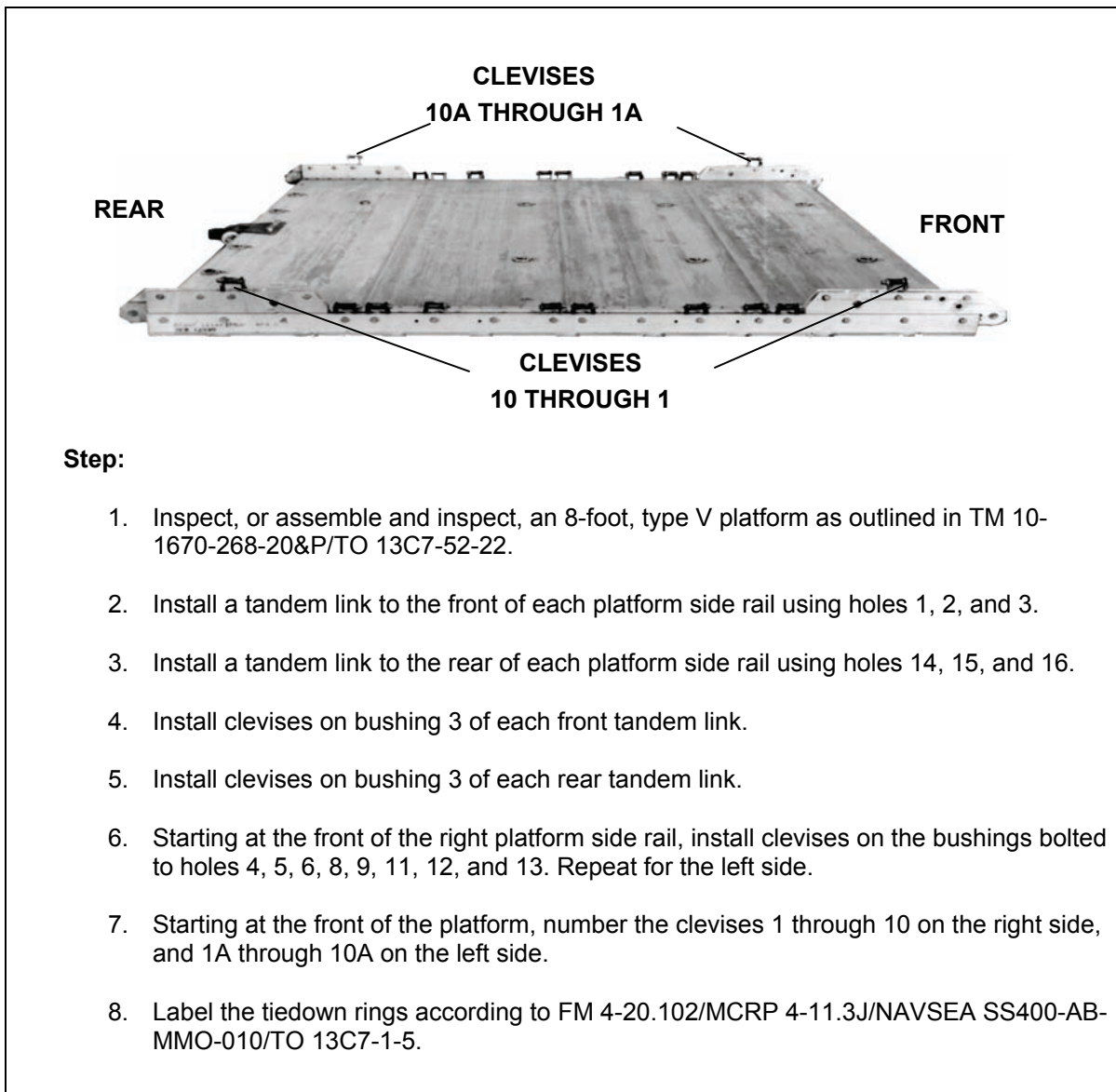
SECTION II-RIGGING FOUR 15-ROUND CONTAINERS

DESCRIPTION OF LOAD

2-14. Four Dragon or Dragon II missiles in 15-round containers are rigged on an 8-foot, type V airdrop platform with one G-11 cargo parachute for low-velocity airdrop (LVAD) from a C-130 or C-17 aircraft. Each container is 49 inches long, 37 inches wide, 67 inches high, and weighs 695 pounds.

PREPARING PLATFORM

2-15. Prepare an 8-foot airdrop platform as shown in Figure 2-15.



Step:

1. Inspect, or assemble and inspect, an 8-foot, type V platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link to the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link to the rear of each platform side rail using holes 14, 15, and 16.
4. Install clevises on bushing 3 of each front tandem link.
5. Install clevises on bushing 3 of each rear tandem link.
6. Starting at the front of the right platform side rail, install clevises on the bushings bolted to holes 4, 5, 6, 8, 9, 11, 12, and 13. Repeat for the left side.
7. Starting at the front of the platform, number the clevises 1 through 10 on the right side, and 1A through 10A on the left side.
8. Label the tiedown rings according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

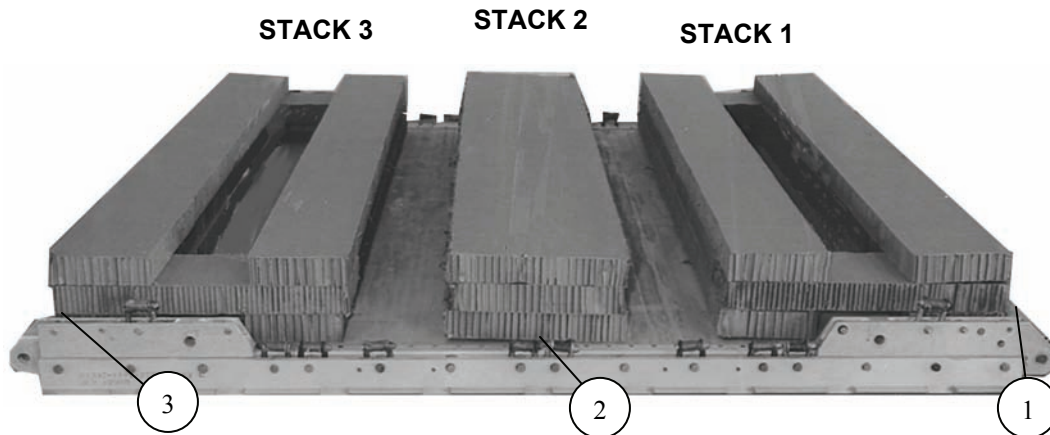
Figure 2-15. Platform Prepared

BUILDING AND PLACING HONEYCOMB STACKS

2-16. Prepare and position the honeycomb stacks as shown in Figure 2-16.

Notes.

1. Measurements from the front of the platform are taken from the front edge of the first panel.
2. Measurements from the rear edge of the platform are taken from the rear edge of the last panel.



1. Build the first stack by using the following pieces of honeycomb, and position the honeycomb flush with the front edge of the platform.

4 pieces	10- by 80-inches	(1 st and 3 rd layers)
2-pieces	10- by 60-inches	(2 nd layer)
2 pieces	10- by 29-inches	(2 nd layer bridge)
2. Build the second stack by using three pieces of honeycomb (18- by 80-inch). Center the stack over the joint where the second and third panels join together and between the side rails.
3. Build the third stack by repeating step 1 above, and position the honeycomb flush with the rear edge of the platform.

Figure 2-16. Honeycomb Stacks Positioned

POSITIONING THE PLYWOOD

2-17. Position plywood on honeycomb stacks as shown in Figure 2-17.

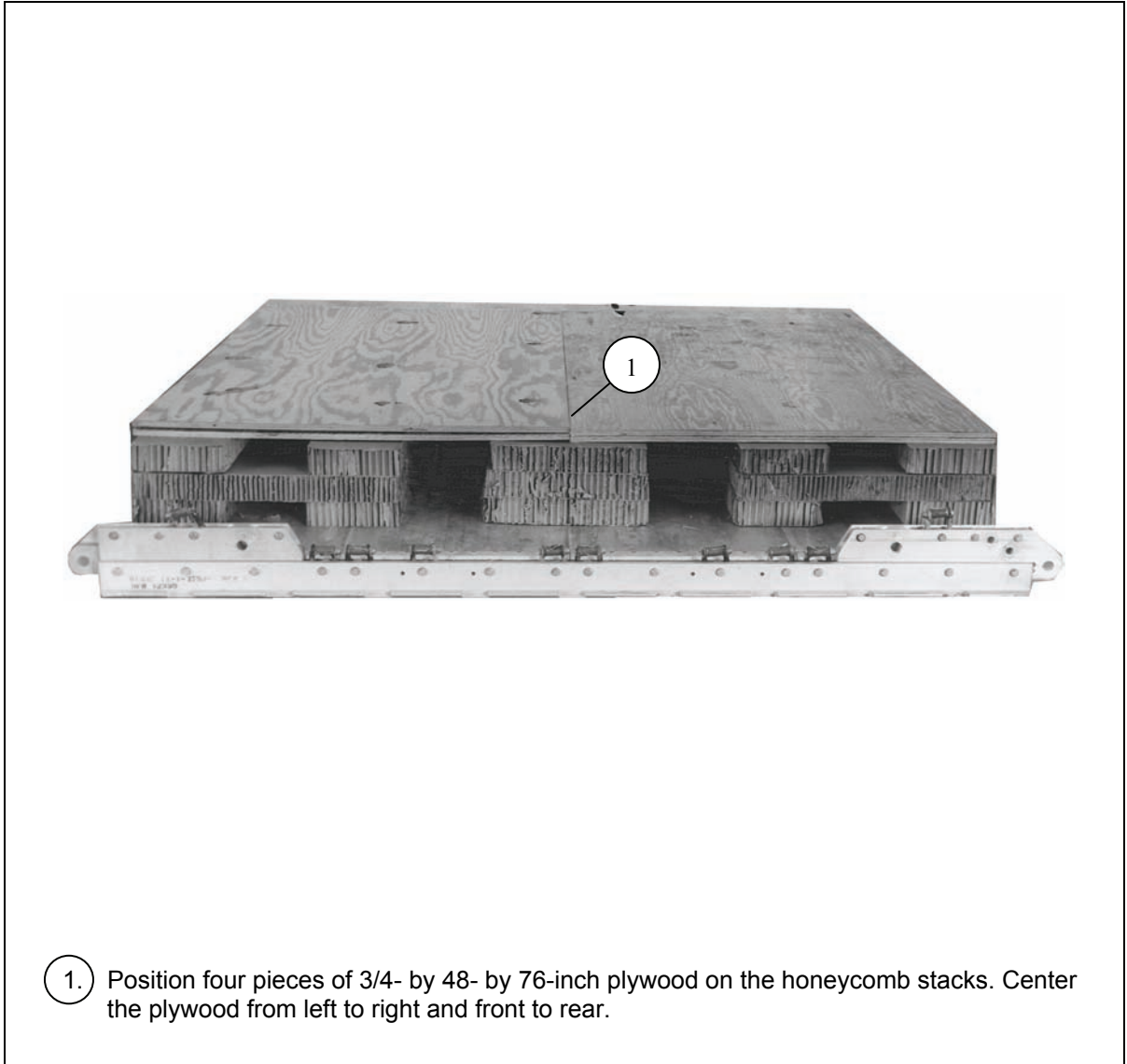


Figure 2-17. Plywood Positioned

POSITIONING MISSILE CONTAINERS

2-18. Place four 15-round containers on the platform as shown in Figures 2-18 and 2-19.

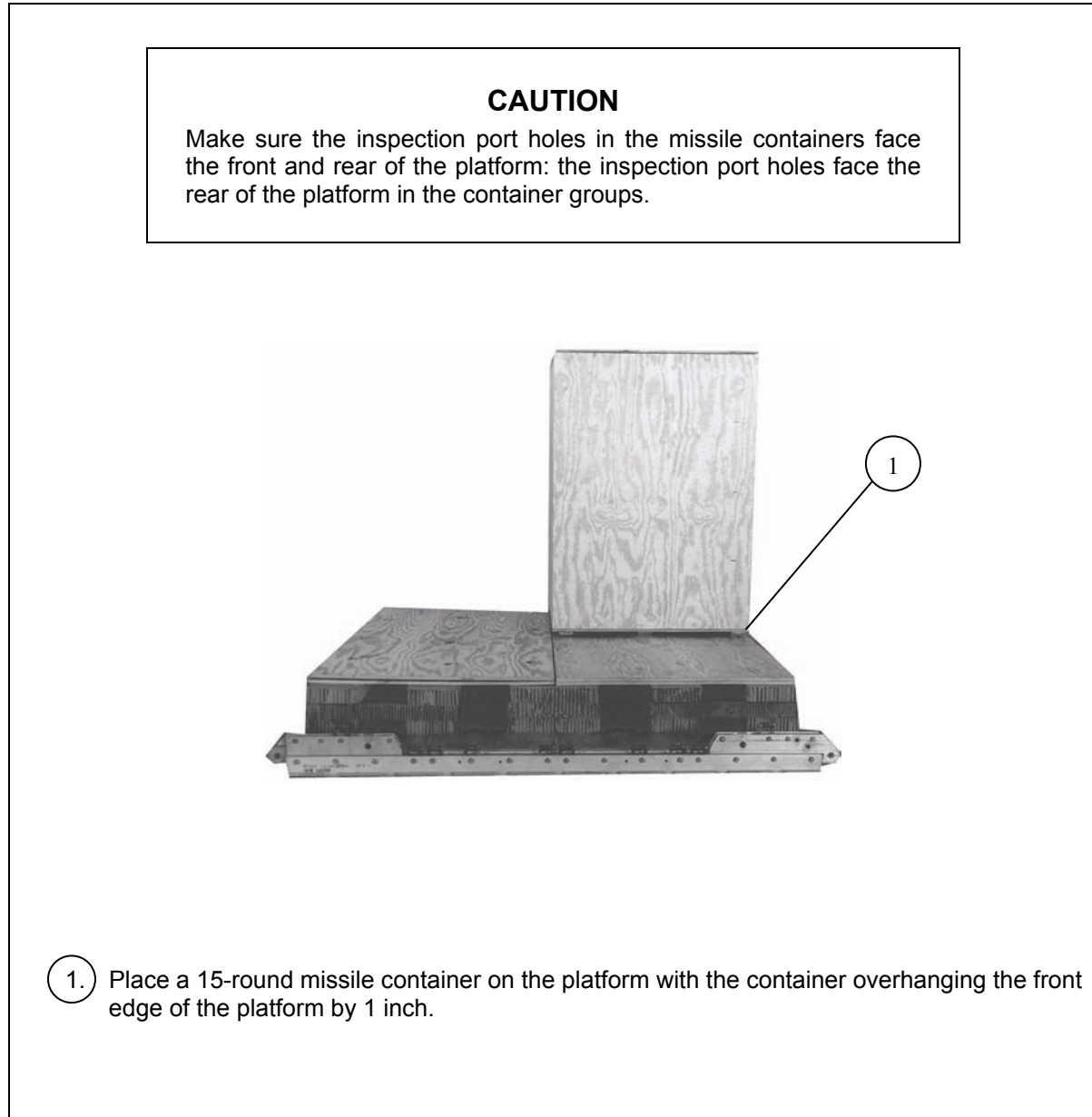


Figure 2-18. First Missile Container Positioned

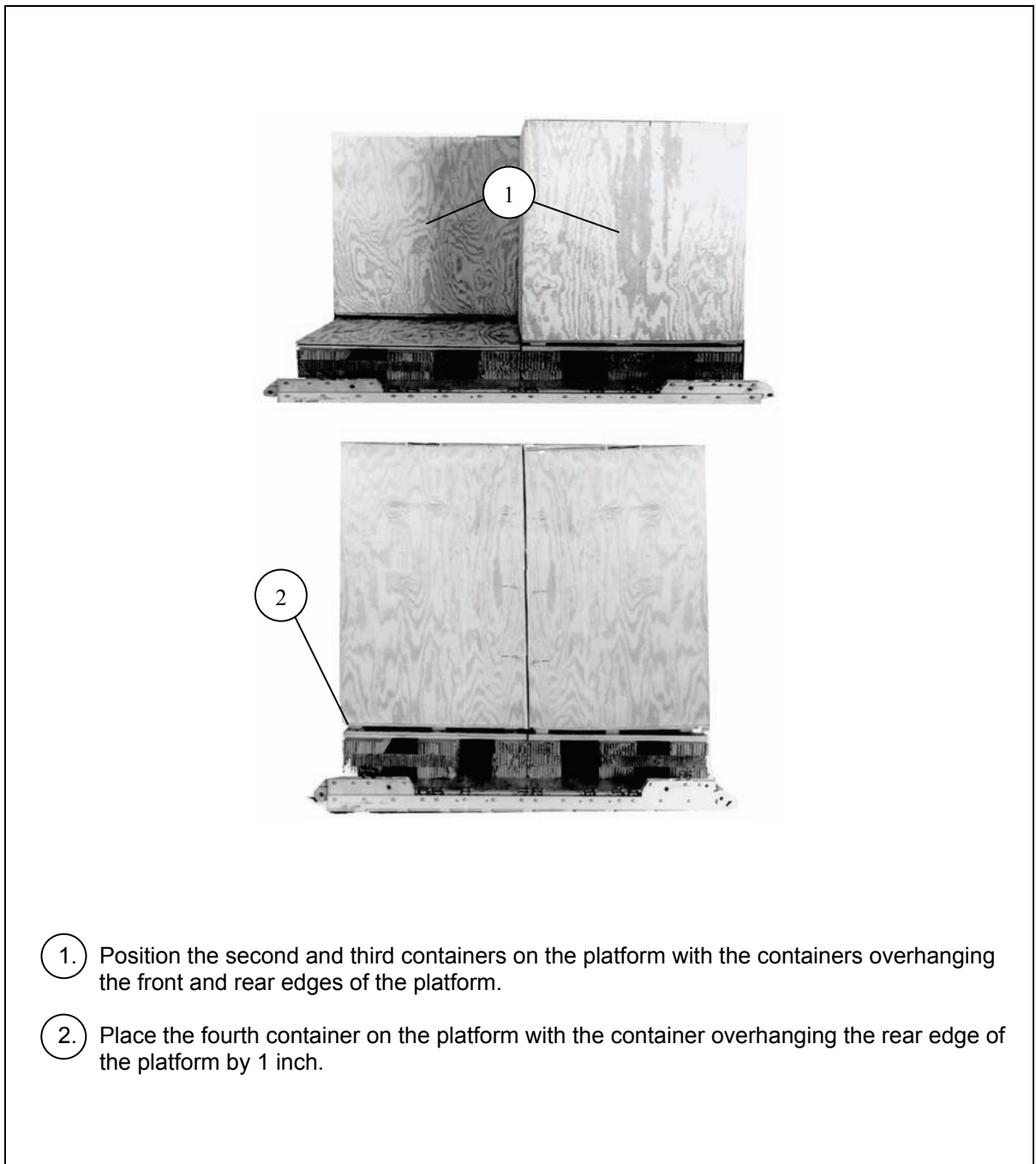
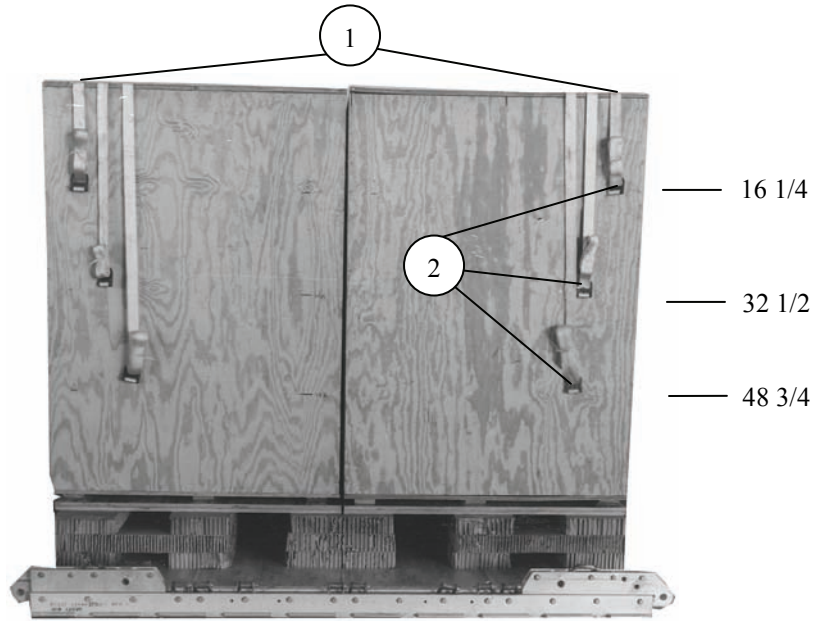


Figure 2-19. Missile Containers 2, 3, and 4 Positioned

POSITIONING AND LASHING MISSILE CONTAINERS

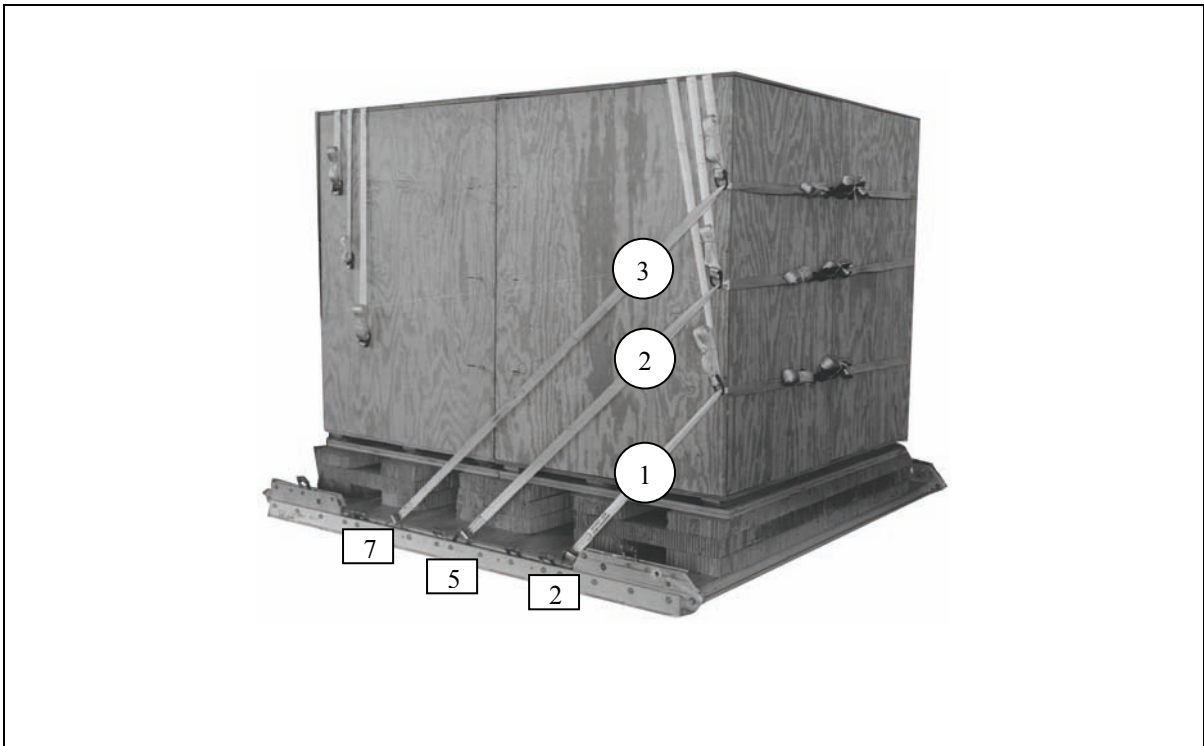
2-19. Position the lashings as shown in Figure 2-20 and lash the containers to the platform as shown in Figures 2-21 through 2-23. Install and safety the lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

Note: All dimensions are in inches.



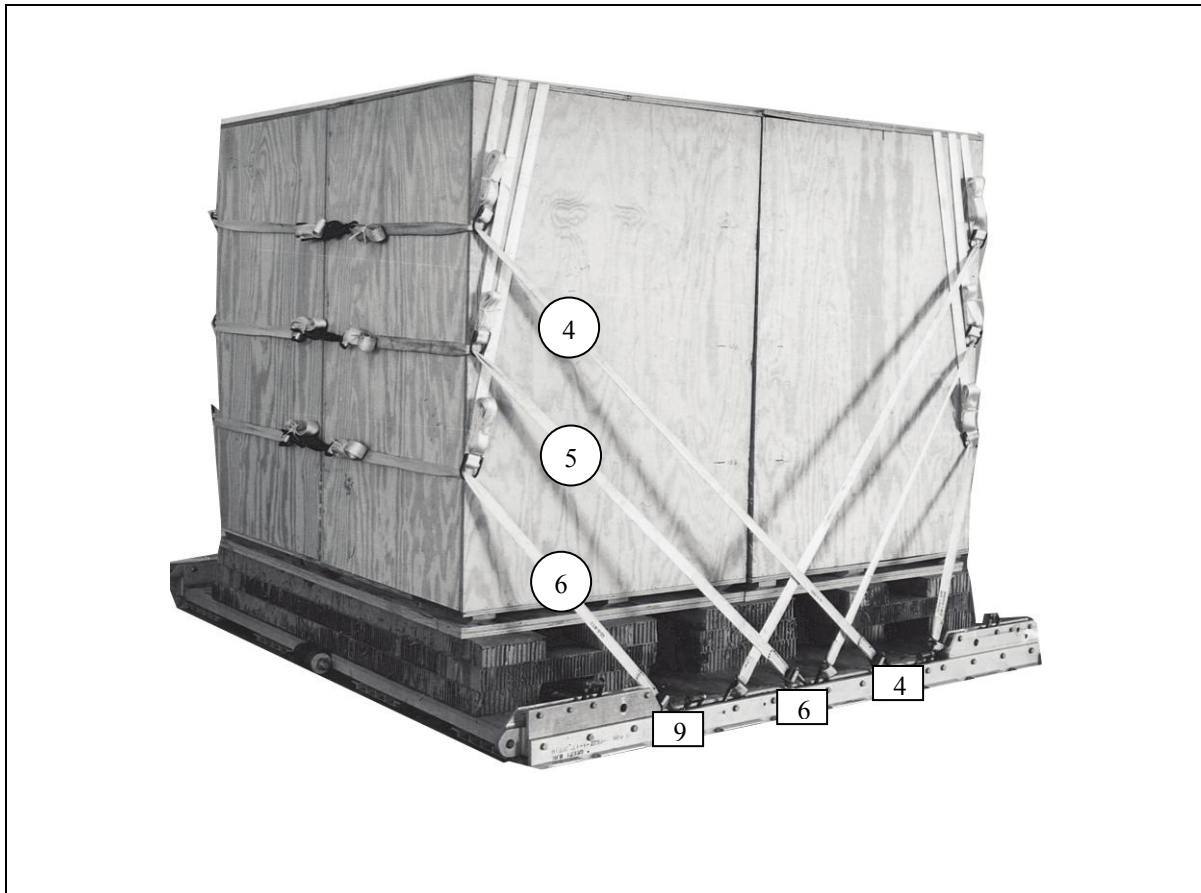
1. Form two 30-foot lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Lay two 15-foot lashings and one 30-foot lashing across both the front and rear edges of the container groups.
2. Fit a D-ring to each lashing, and adjust the length of the lashings and D-rings at intervals of 16 1/4 inches from the top of containers.

Figure 2-20. Lashings Installed



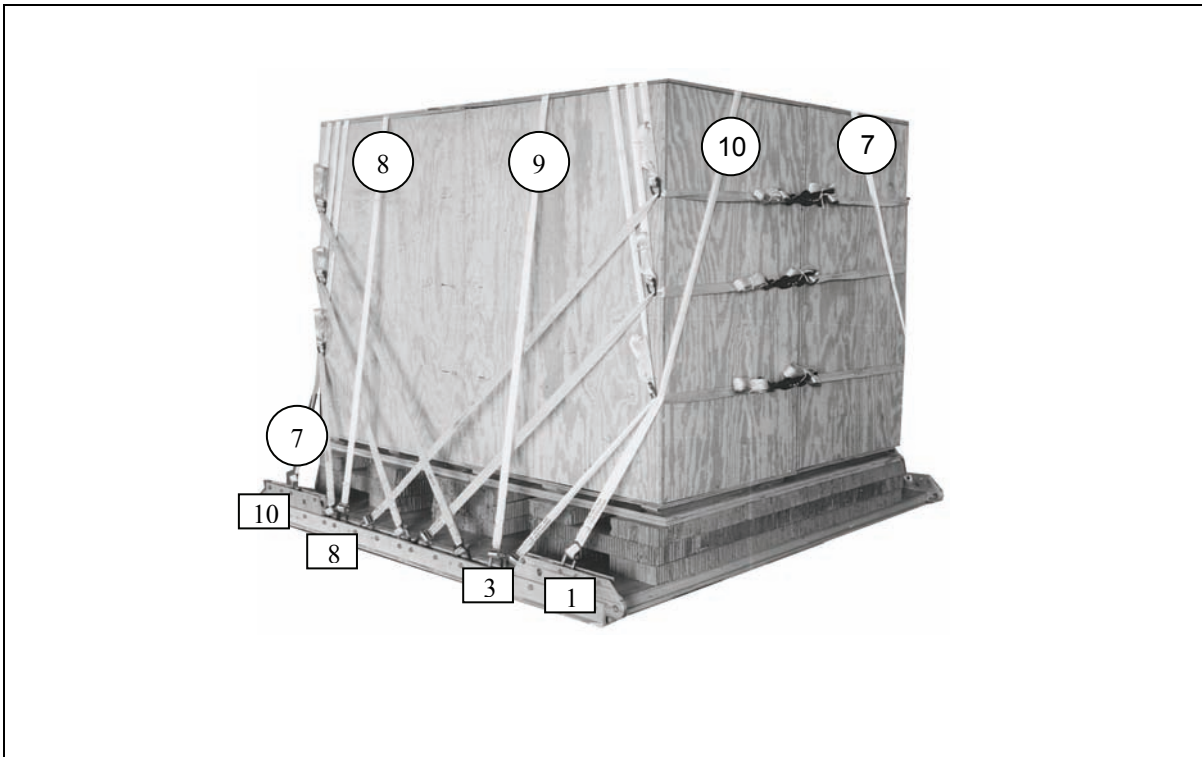
Lashing Number	Tiedown Clevis Number	Instructions
1	2 and 2A	Route a 15-foot lashing from clevis 2 and a 15-foot lashing from clevis 2A. Pass the lashings through the D-rings. Secure the lashings on the front using two D-rings and a load binder.
2	5 and 5A	Route a 15-foot lashing from clevis 5 and a 15-foot lashing from clevis 5A. Pass the lashings through the D-rings. Secure the lashings on the front using two D-rings and a load binder.
3	7 and 7A	Route a 15-foot lashing from clevis 7 and a 15-foot lashing from clevis 7A. Pass the lashings through the D-rings. Secure the lashings on the front using two D-rings and a load binder.

Figure 2-21. Lashings 1 Through 3 Installed



Lashing Number	Tiedown Clevis Number	Instructions
4	4 and 4A	Route a 15-foot lashing from clevis 4 and a 15-foot lashing from clevis 4A. Pass the lashings through the D-rings. Secure the lashings on the rear using two D-rings and a load binder.
5	6 and 6A	Route a 15-foot lashing from clevis 6 and a 15-foot lashing from clevis 6A. Pass the lashings through the D-rings. Secure the lashings on the rear using two D-rings and a load binder.
6	9 and 9A	Route a 15-foot lashing from clevis 9 and a 15-foot lashing from clevis 9A. Pass the lashings through the D-rings. Secure the lashings on the rear using two D-rings and a load binder.

Figure 2-22. Lashings 4 Through 6 Installed



Lashing Number	Tiedown Clevis Number	Instructions
7	10 and 1A	Run a 15-foot lashing through clevis 10 and a 15-foot lashing from clevis 1A. Pass the lashings around ends of the containers and up over the load. Secure the lashings on the top using two D-rings and a load binder. Safety the lashings to the bottom D-rings with type I, 1/4-inch cotton webbing
8	8 and 8A	Run a 15-foot lashing through clevis 8 and a 15-foot lashing from clevis 8A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
9	3 and 3A	Run a 15-foot lashing through clevis 3 and a 15-foot lashing from clevis 3A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
10	1 and 10A	Run a 15-foot lashing through clevis 1 and a 15-foot lashing from clevis 10A. Pass the lashings around ends of the containers and up over the load. Secure the lashings on the top using two D-rings and a load binder. Safety the lashings to the bottom D-rings with type I, 1/4-inch cotton webbing.

Figure 2-23. Lashings 7 Through 10 Installed

INSTALLING SUSPENSION SLINGS AND DEADMAN'S TIE

2-20. Install and safety four 16-foot (2-loop), type XXVI nylon slings and four large clevises as shown in Figure 2-24.

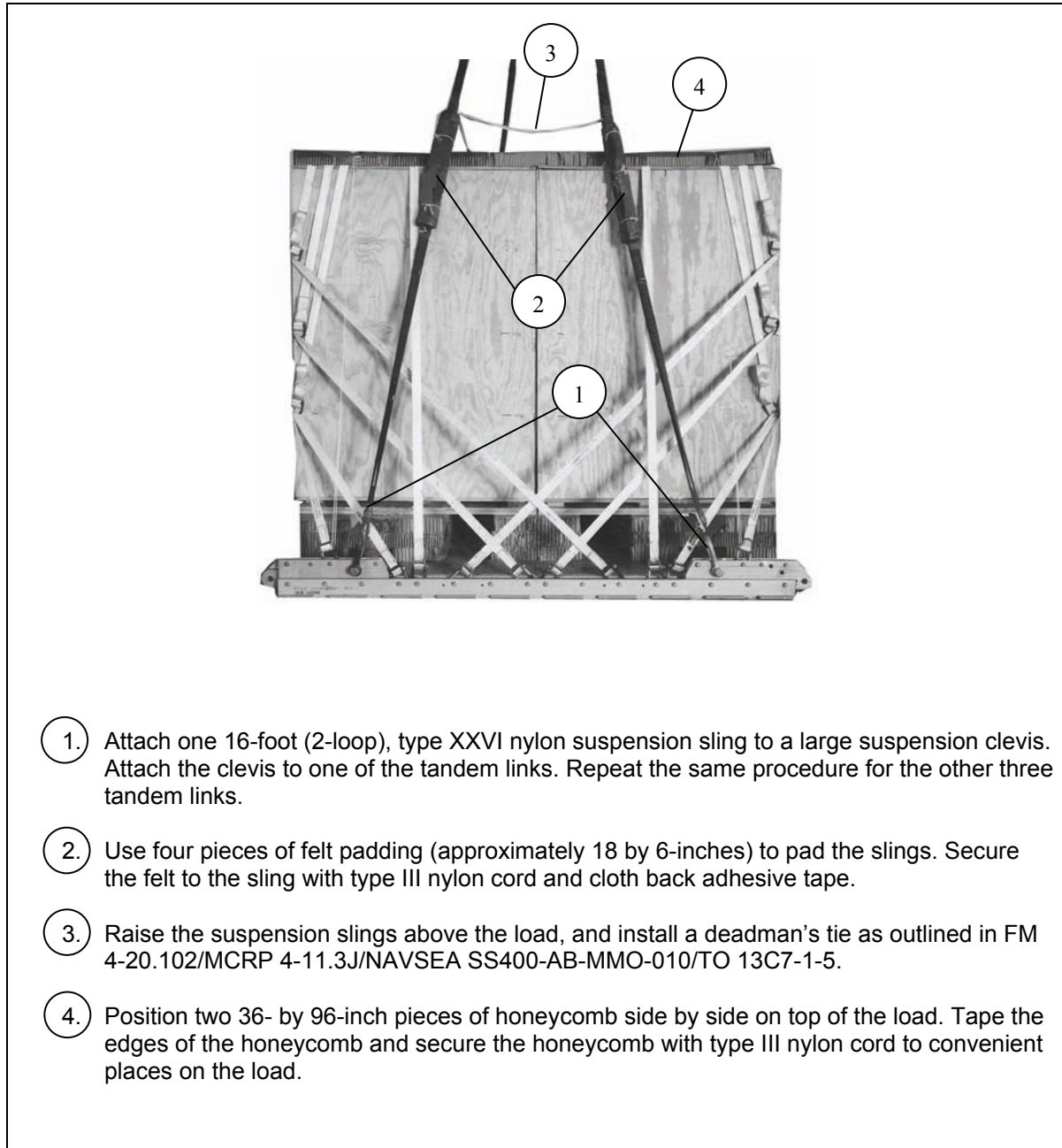


Figure 2-24. Suspension Slings and Deadman's Tie Installed

STOWING CARGO PARACHUTE

2-21. Stow one G-11B cargo parachute according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-25.

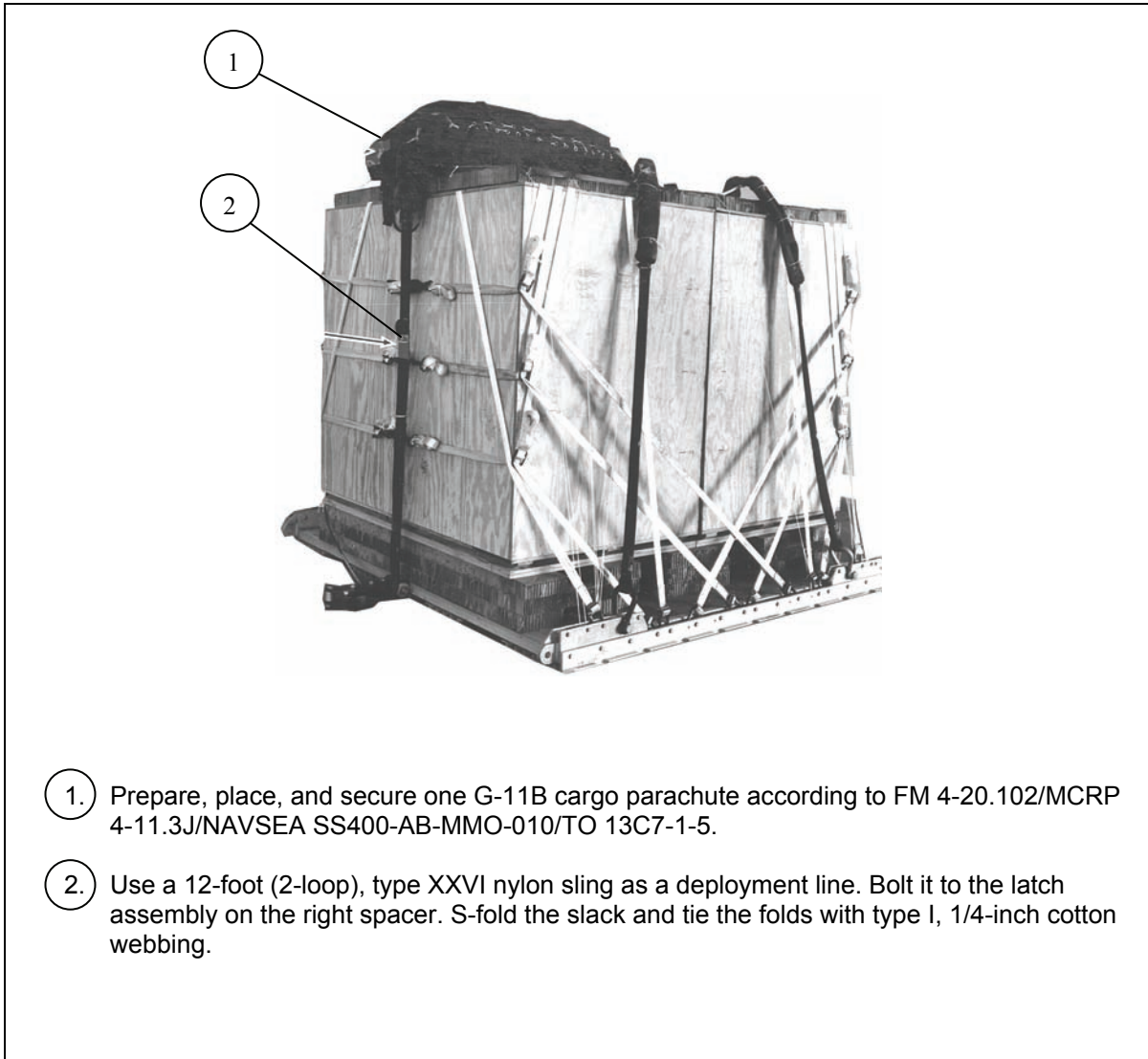
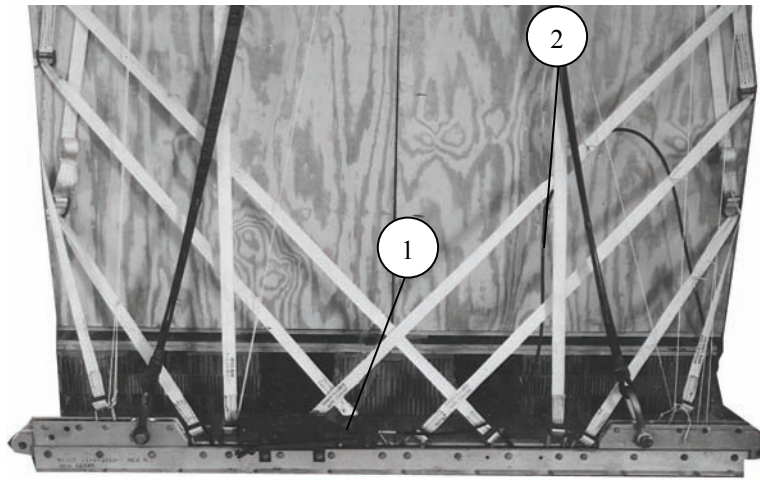


Figure 2-25. Cargo Parachute Stowed and Secured to Load

INSTALLING EXTRACTION SYSTEM

2-22. Attach the EFTC according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-26.



1. Install the EFTC actuator mounting brackets to the front holes in the left platform rail. Install the EFTC actuator assembly to the brackets according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.
2. Install a 12-foot cable according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Safety the cable to the lashing with type I, 1/4-inch cotton webbing.

Figure 2-26. EFTC Installed

INSTALLING PARACHUTE RELEASE

2-23. Prepare, attach, and safety an M-1 cargo parachute release according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-27.

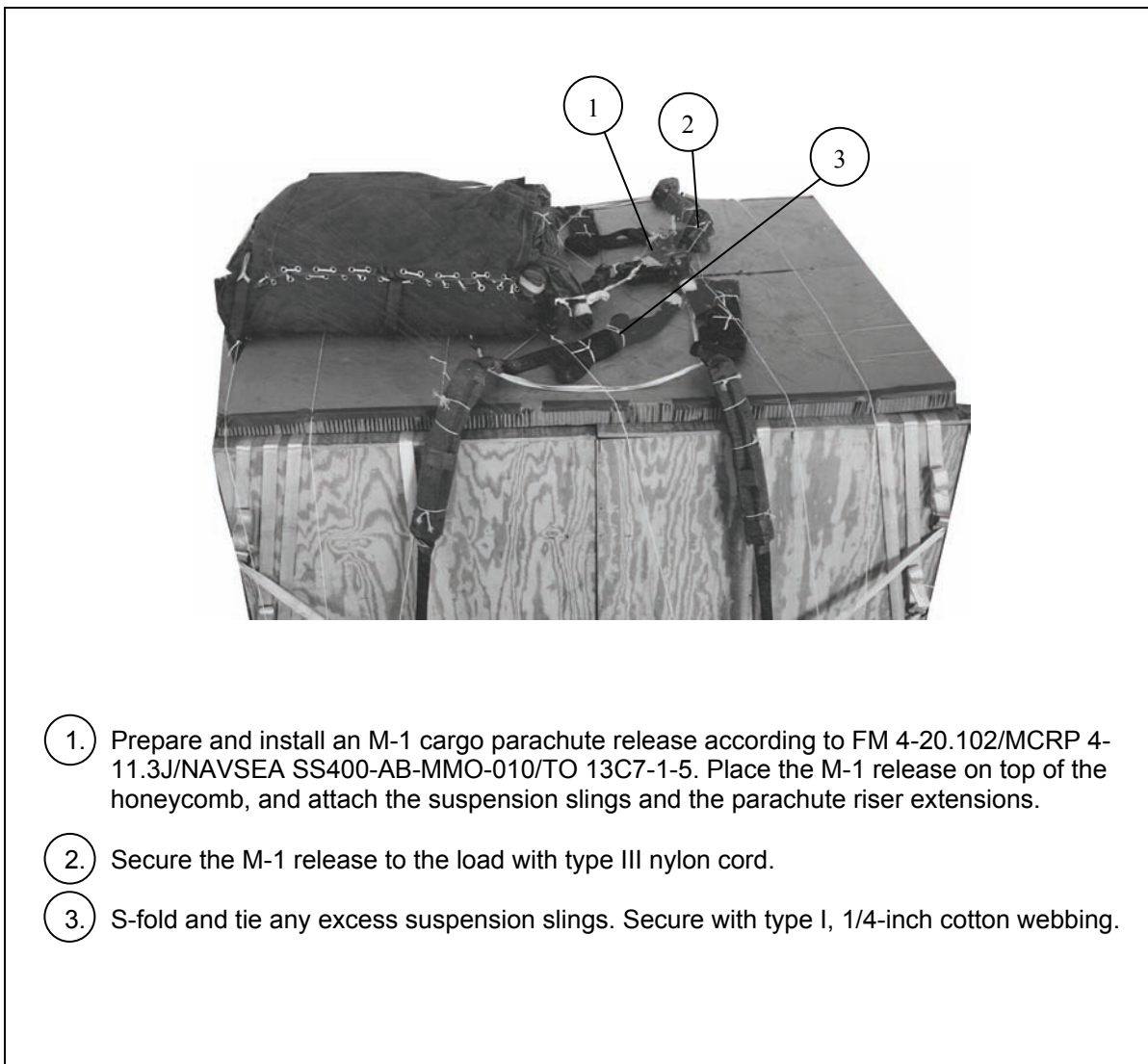


Figure 2-27. M-1 Cargo Parachute Release Installed

PLACING EXTRACTION PARACHUTE

2-24. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Place the extraction parachute and line on the load for installation in the aircraft.

INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS

2-25. Select and install the provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

MARKING RIGGED LOAD

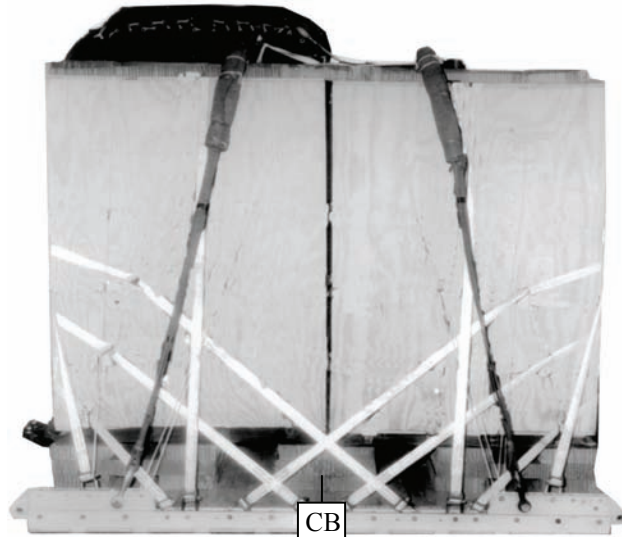
2-26. Mark the rigged load according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5, and as shown in Figure 2-28. Complete Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

EQUIPMENT REQUIRED

2-27. Use the equipment listed in Table 2-2 to rig this load.

CAUTION

Make the final rigger inspection required by AR 59-4 and FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown.....	4,460 pounds
Height	83 inches
Width	108 inches
Overall Length.....	98 inches
Overhang: Front	1 inch
Rear	1 inch
Center of Balance (from front edge of the platform)	51 inches
Extraction System with 12-foot cable (adds 18 inches to length of platform)	EFTC

Figure 2-28. Four 15-Round Containers Rigged on an 8-Foot, Type V Platform for Low-Velocity Airdrop

Table 2-2. Equipment Required for Rigging Four 15-Round Dragon or Dragon II Missile Containers on an 8-Foot, Type V Platform for Low-Velocity Airdrop

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste, 1-gallon	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-inch (medium) emergency restraint	2
4030-00-090-5354	1-inch (large)	5
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer with 12-foot cable	1
1670-00-360-0328	Cover, clevis, large	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-inch thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-foot (1-loop)	1
	Or	
1670-01-107-7652	160-foot (1-loop)	2
1670-01-064-4452	60-foot (1-loop), type XXVI for C-17 drogue line	1
	Link assembly, two-point:	
5306-00-435-8994	Bolt, 1-inch diameter, 4-inch long	1
5310-00-232-5165	Nut, 1-inch, hexagonal	1
1670-00-003-1953	Plate, side 3 3/4-inch	1
5365-00-007-3414	Spacer, large	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb	9 sheets
	Parachute:	
1670-01-016-7841	Cargo, G-11B	1
1670-01-063-3715	Cargo, extraction, 15-foot	1
	Platform, airdrop, type V, 8-foot	
1670-01-353-8425	Bracket assembly, EFTC	1
1670-01-162-2376	Bracket assembly, extraction	1
1670-01-162-2372	Clevis assembly	20
1670-01-162-2381	Tandem link	4
5530-00-128-4981	Plywood, 3/4-inch	4 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 2-2. Equipment Required for Rigging Four 15-Round Dragon or Dragon II Missile Containers on an 8-Foot, Type V Platform for Low-Velocity Airdrop (Continued)

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
	Sling, cargo airdrop:	
	For deployment line:	
1670-00-753-3792	12-foot (2-loop), type XXVI nylon webbing	1
	For riser extension:	
1670-01-062-6301	3-foot (2-loop), type XXVI nylon webbing	1
	For suspension:	
1670-01-063-7761	16-foot (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap parachute release, multicut	1
7515-00-266-5016	Tape, adhesive, 2-inch	As required
7501-00-266-6710	Tape, masking	As required
1670-00-937-0271	Tie-down assembly, 15-foot	28
1670-01-483-8259	Towplate release mechanism (H-block) (C-17)	1
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-inch	As required
8305-00-263-3591	Type VIII webbing	As required

SECTION III-RIGGING FOUR A-22 CARGO BAGS WITH ONE-ROUND CONTAINERS

DESCRIPTION OF LOAD

2-28. Four A-22 cargo bags with Dragon or Dragon II missiles in one-round containers are rigged on an 8-foot, type V airdrop platform with one G-11B cargo parachute for low-velocity airdrop (LVAD) from a C-130 or C-17 aircraft. Each A-22 cargo bag with missile containers is 48 inches long, 48 inches wide, and weighs 693 pounds.

PREPARING PLATFORM

2-29. Prepare an 8-foot, type V airdrop platform as shown in Figure 2-29.

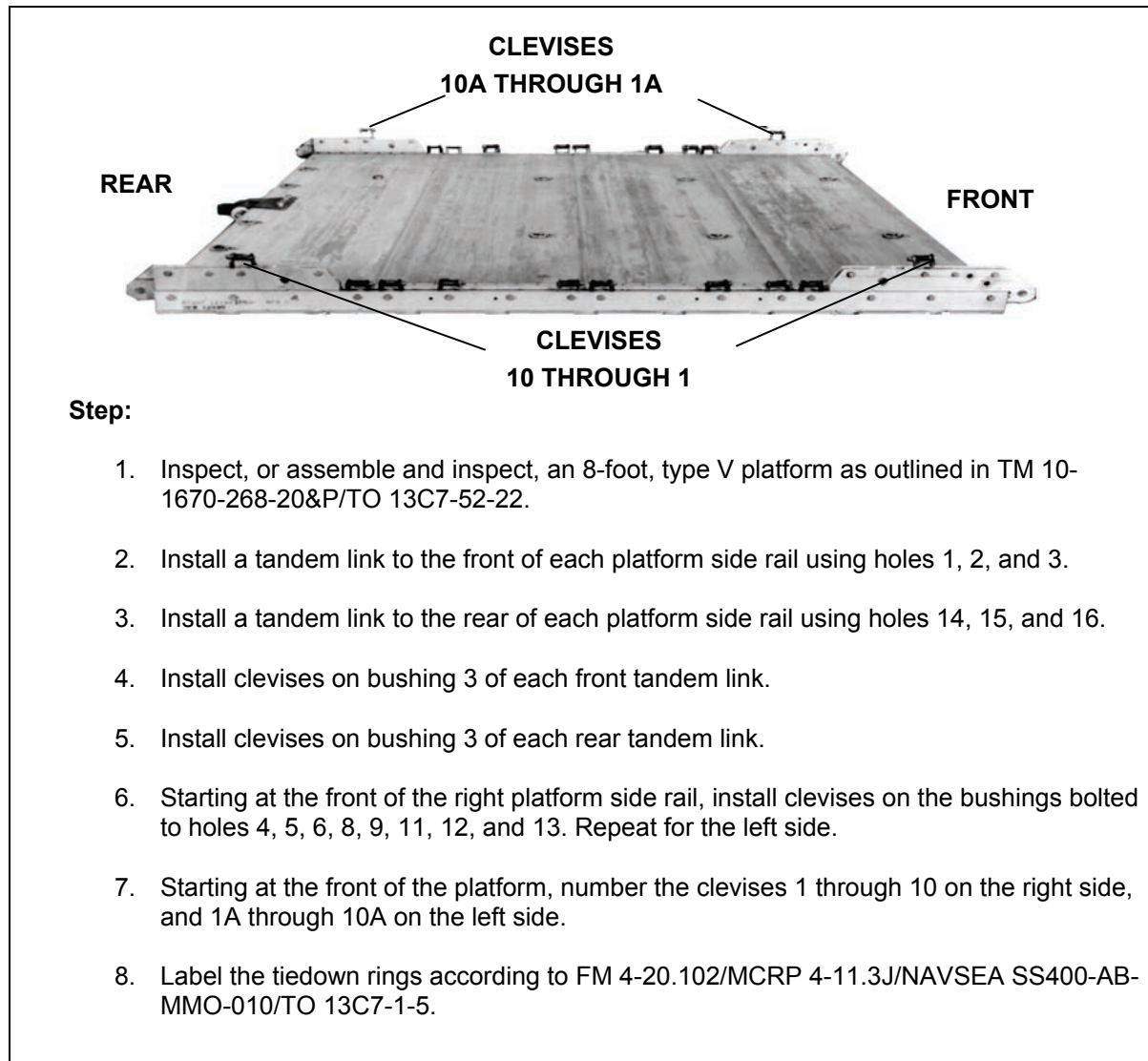


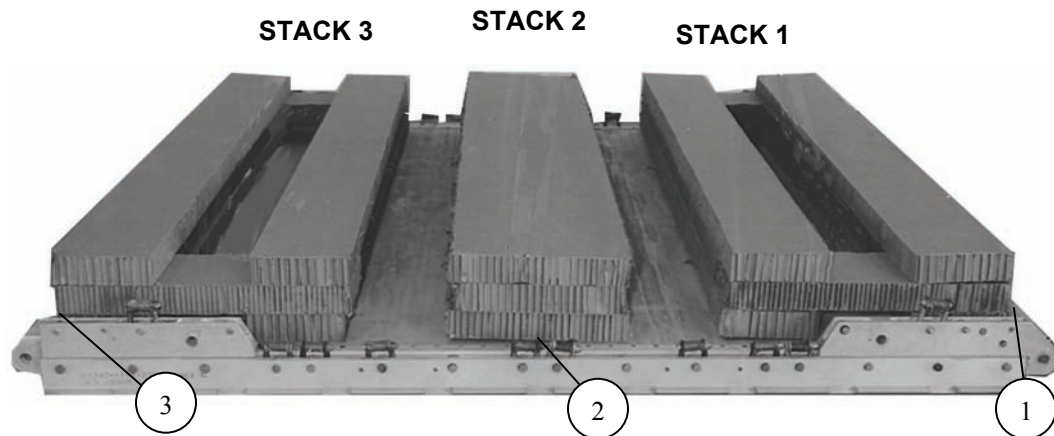
Figure 2-29. Platform Prepared

BUILDING AND PLACING HONEYCOMB STACKS

2-30. Prepare and position the honeycomb stacks as shown in Figure 2-30.

Notes.

1. Measurements from the front of the platform are taken from the front edge of the first panel.
2. Measurements from the rear edge of the platform are taken from the rear edge of the last panel.



1. Build the first stack by using the following pieces of honeycomb, and position the honeycomb flush with the front edge of the platform.

4 pieces	10- by 96-inches	(1 st and 3 rd layers)
2 pieces	10- by 76-inches	(2 nd layer)
2 pieces	10- by 29-inches	(2 nd layer bridge)
2. Build the second stack by using three pieces of honeycomb (18- by 96-inch). Center the stack over the joint where the second and third panels join together and between the side rails.
3. Build the third stack by repeating step 1 above, and position the honeycomb 1 inch from the rear edge of the platform.

Figure 2-30. Honeycomb Stacks Positioned

PREPARING LOAD

2-31. Prepare four A-22 cargo bags with nine one-round containers as shown in Figures 2-31 and 2-32; however, do not use the skid or skid honeycomb. Close the A-22 cargo bags by following the steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

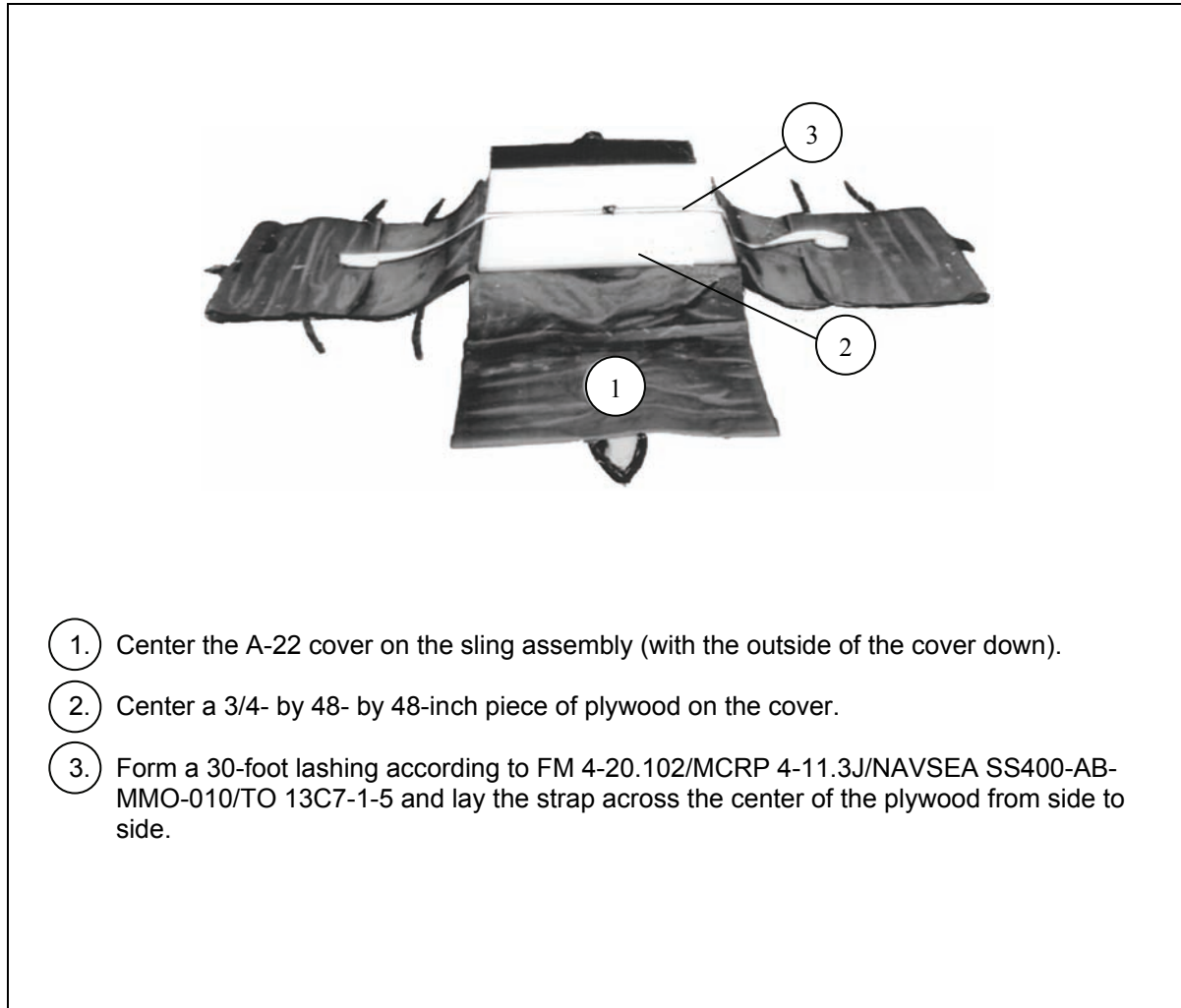
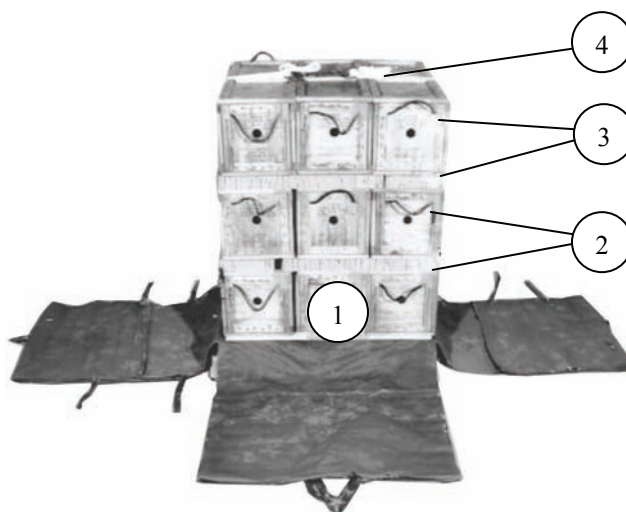


Figure 2-31. Cargo Bag, Plywood, and Lashing Positioned

CAUTION

Make sure the inspection port holes in the missile containers face the front and rear of the platform.



1. Set three containers on the plywood so that the 47 1/2 inch sides of the containers are parallel with the 3/4- by 48- by 48-inch plywood on the A-22 cover.
2. Place a layer of one piece of 36- by 48-inch honeycomb and one piece of 12- by 48-inch honeycomb on the containers. Set three more containers on the honeycomb.
3. Place another layer of honeycomb on the containers. Set the last three containers on the honeycomb.
4. Run the ends of the 30-foot lashing over the top of the stacked containers, and bind the ends together with two D-rings and a load binder.

Figure 2-32. Nine One-Round Containers Positioned

POSITIONING THE LOAD

2-32. Place the four A-22 containers on the platform as shown in Figure 2-33.

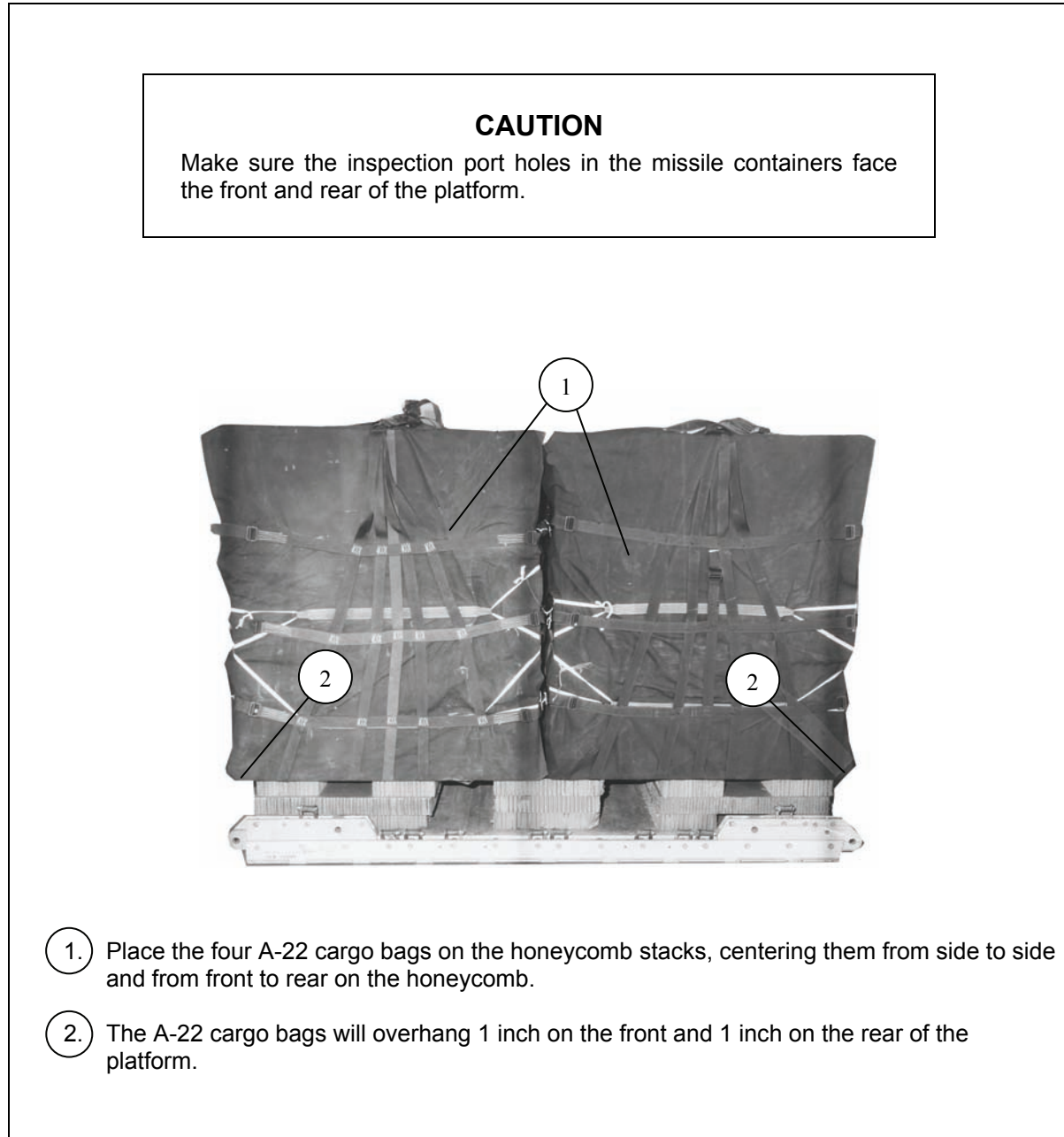
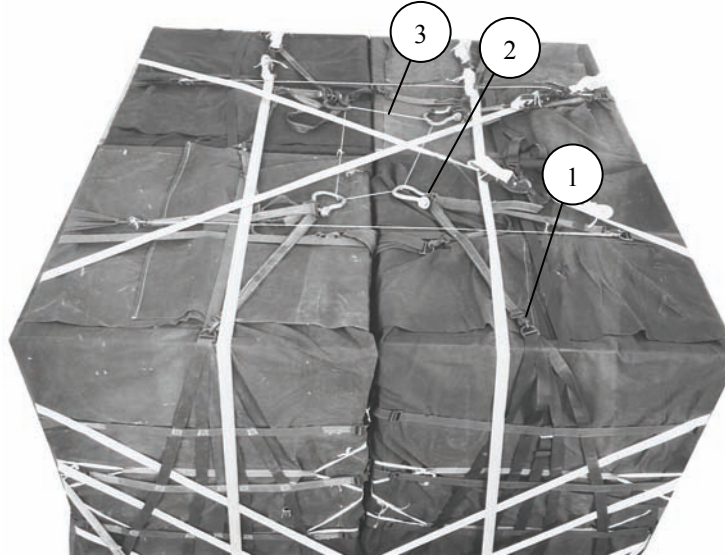


Figure 2-33. Cargo A-22 Containers Positioned

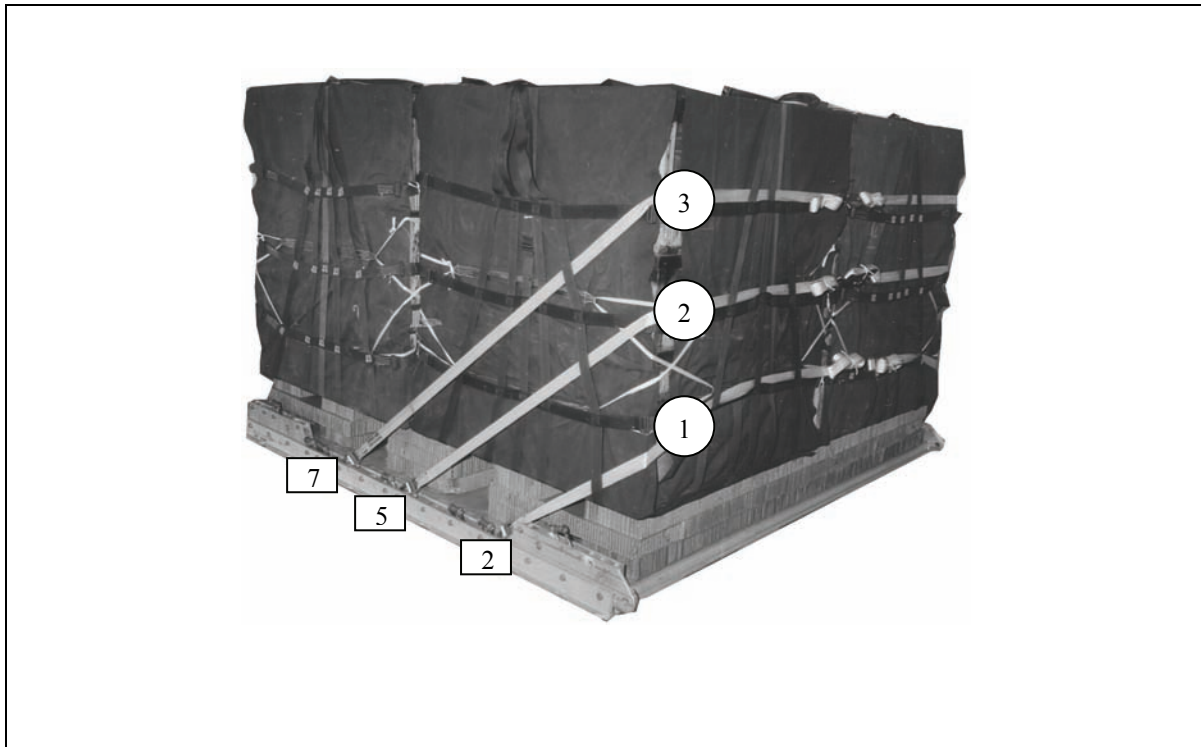
SECURING SUSPENSION WEBS AND LASHING CONTAINERS

2-33. Secure the suspension webs as shown in Figure 2-34. Lash the A-22 cargo bags to the platform as shown in Figures 2-35 through 2-37. Install the lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.



1. Attach all suspension webs as shown. Route the hook on the strap fastener from outside to inside. The gate on the strap fastener must face inside.
2. Place the suspension web D-rings on the bolt of a large suspension clevis.
3. Secure the cargo clevises with type III nylon cord.

Figure 2-34. Lashings Installed



Lashing Number	Tiedown Clevis Number	Instructions
1	2 and 2A	Route a 15-foot lashing from clevis 2 and a 15-foot lashing from clevis 2A. Pass the lashings underneath the A-22 webbing on the sides and around the front of the load. Secure the lashings on the front using two D-rings and a load binder.
2	5 and 5A	Route a 15-foot lashing from clevis 5 and a 15-foot lashing from clevis 5A. Pass the lashings underneath the A-22 webbing on the sides and around the front of the load. Secure the lashings on the front using two D-rings and a load binder.
3	7 and 7A	Route a 15-foot lashing from clevis 7 and a 15-foot lashing from clevis 7A. Pass the lashings underneath the A-22 webbing on the sides and around the front of the load. Secure the lashings on the front using two D-rings and a load binder.

Figure 2-35. Lashings 1 Through 3 Installed

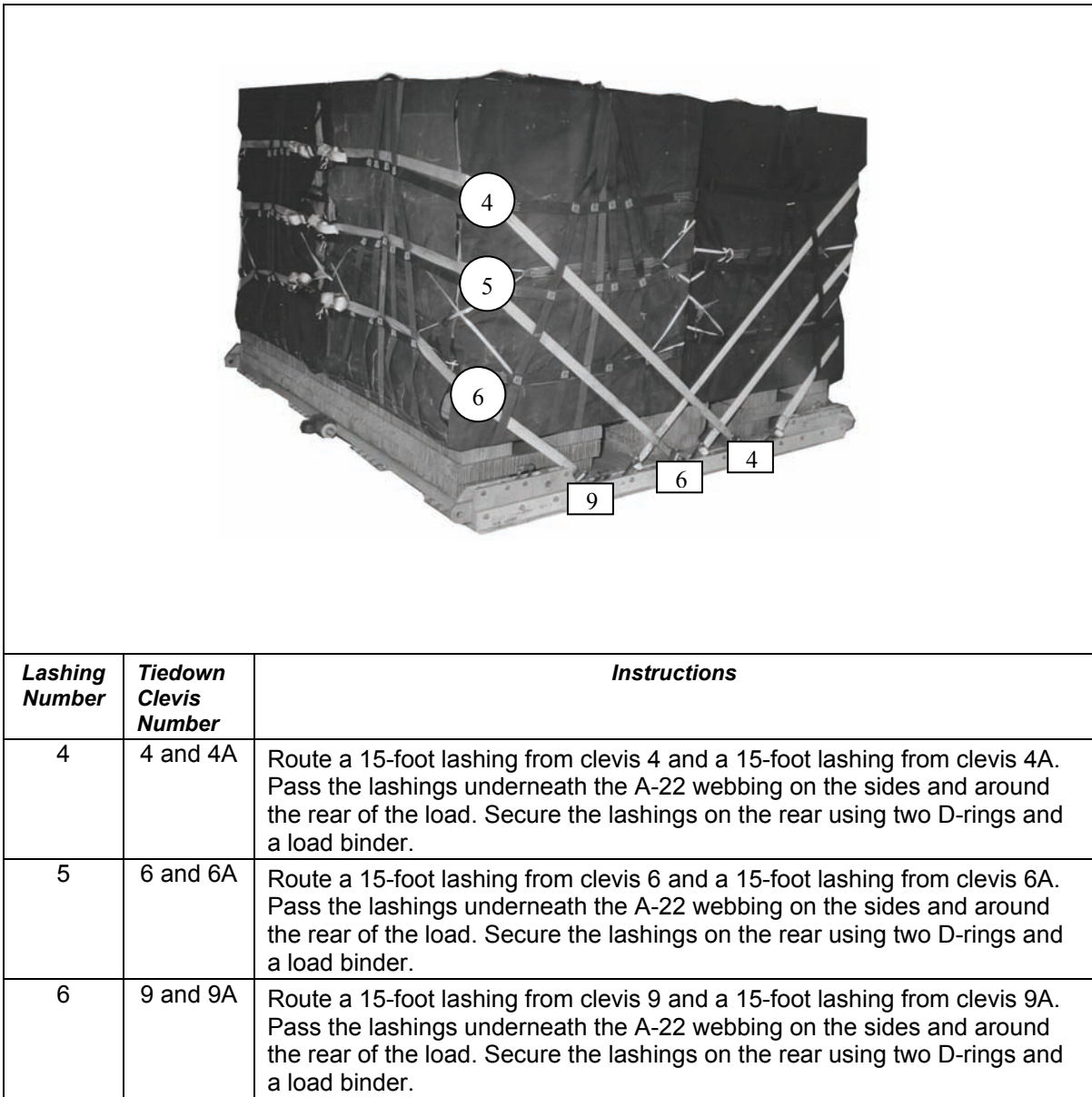
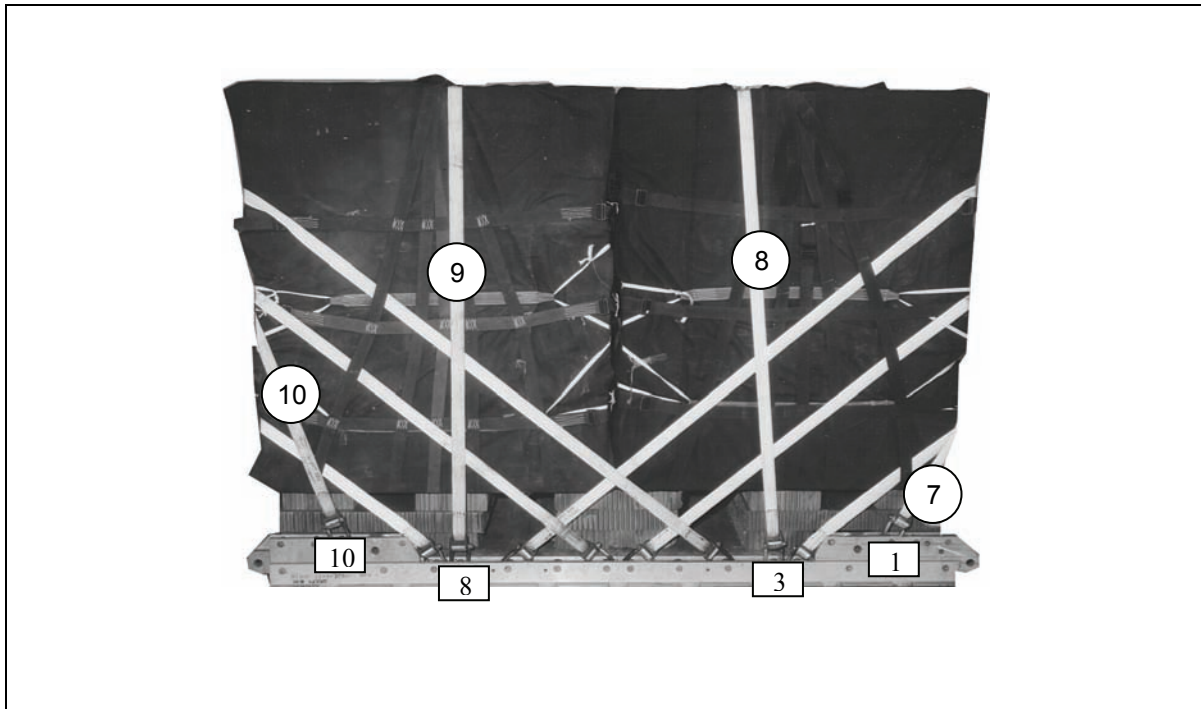


Figure 2-36. Lashings 4 Through 6 Installed



Lashing Number	Tiedown Clevis Number	Instructions
7	1 and 10A	Route a 15-foot lashing from clevis 1 and a 15-foot lashing from clevis 10A. Pass the lashings around the front and rear of the load and up over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
8	3 and 3A	Route a 15-foot lashing from clevis 3 and a 15-foot lashing from clevis 3A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
9	8 and 8A	Route a 15-foot lashing from clevis 8 and a 15-foot lashing from clevis 8A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
10	10 and 1A	Route a 15-foot lashing from clevis 10 and a 15-foot lashing from clevis 1A. Pass the lashings around the front and rear of the load and up over the top of the load. Secure the lashings on the top using two D-rings and a load binder.

Figure 2-37. Lashings 7 Through 10 Installed

INSTALLING SUSPENSION SLINGS AND DEADMAN'S TIE

2-34. Install and safety four 16-foot (2-loop), type XXVI nylon slings as shown in Figure 2-38.

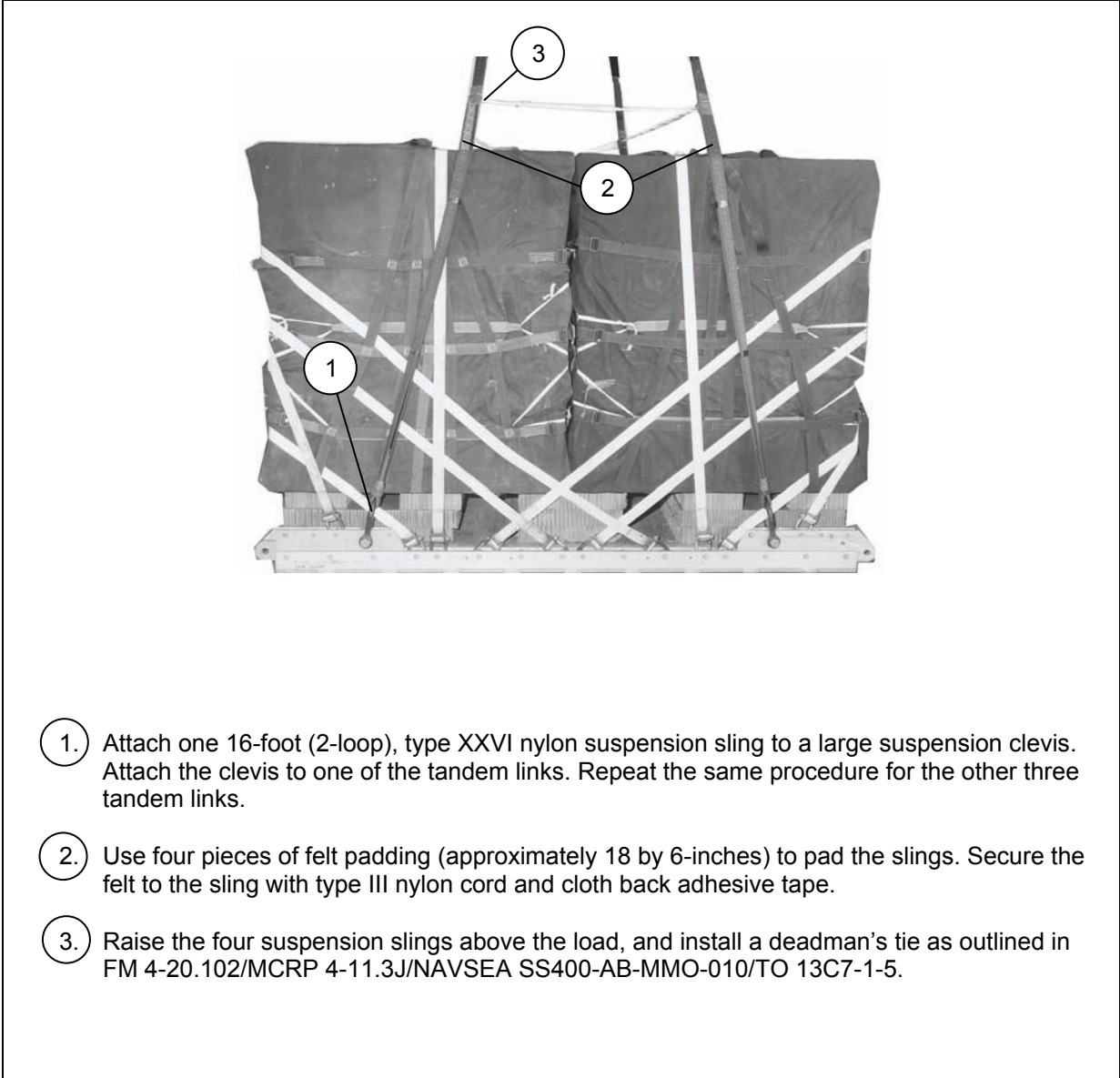


Figure 2-38. Suspension Slings and Deadman's Tie Installed

STOWING CARGO PARACHUTE

2-35. Stow one G-11 cargo parachute according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-39.

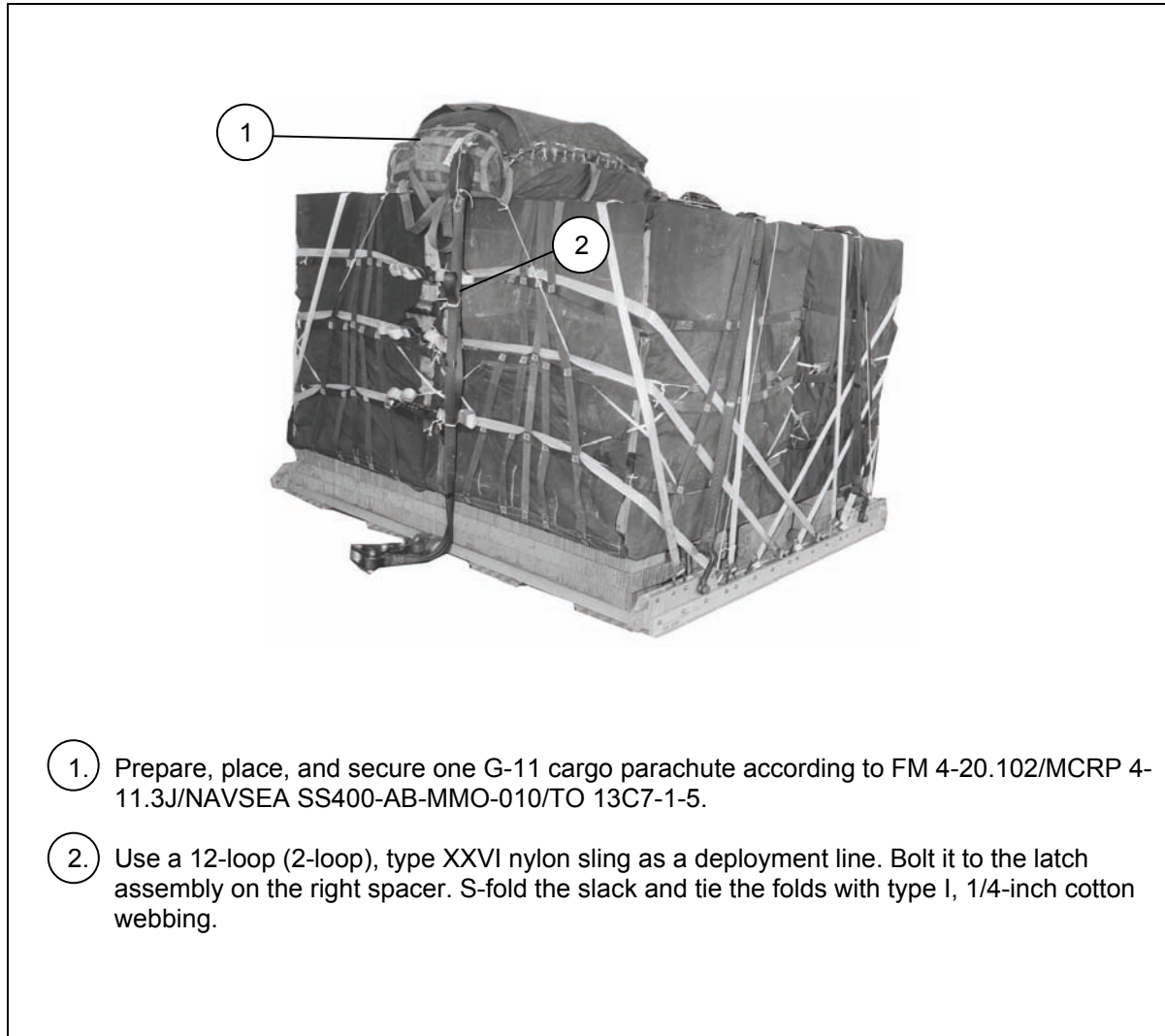


Figure 2-39. Cargo Parachute Stowed and Secured to Load

INSTALLING EXTRACTION SYSTEM

2-36. Attach the components of the Extraction Force Transfer Coupling (EFTC) according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-40.

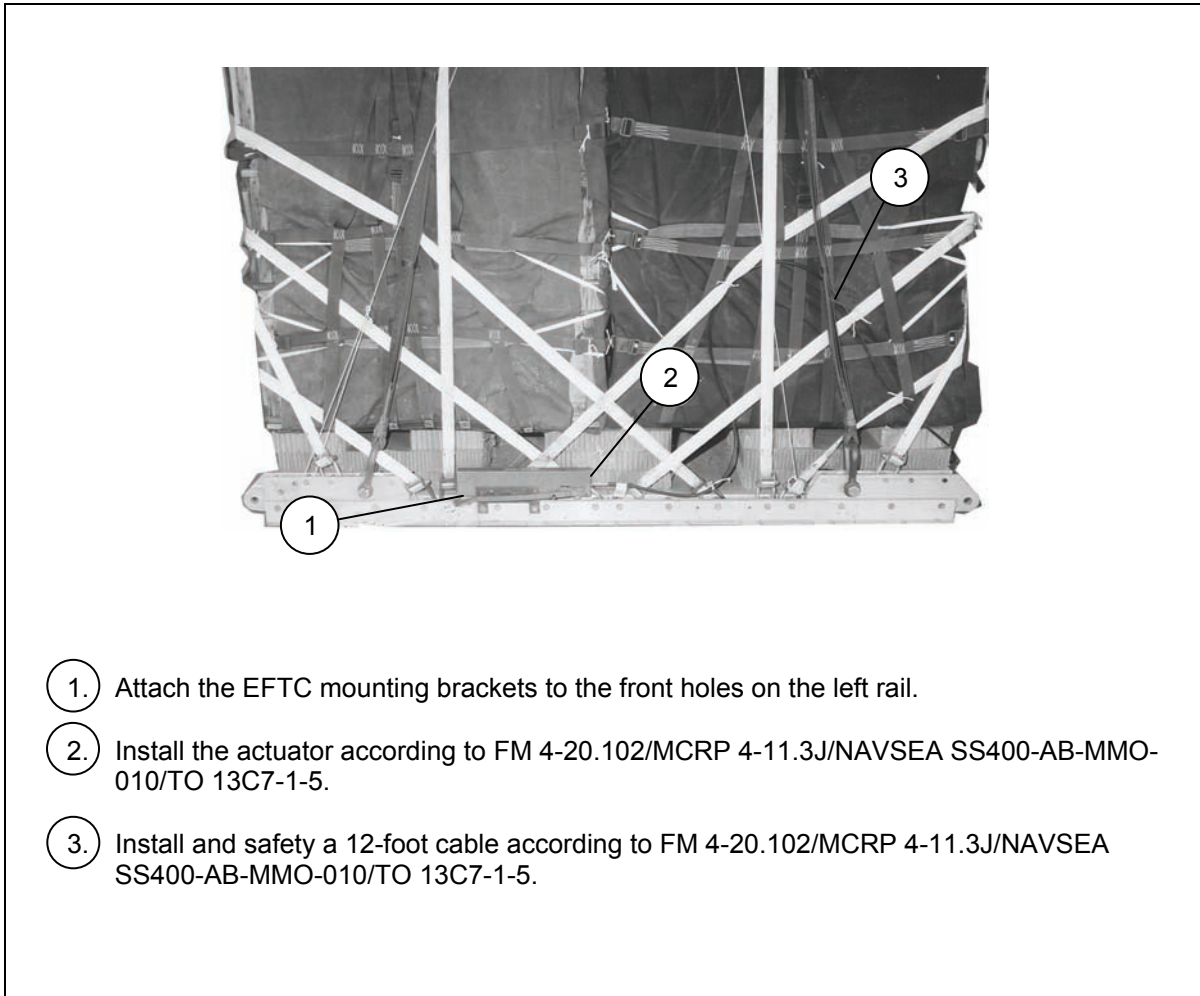
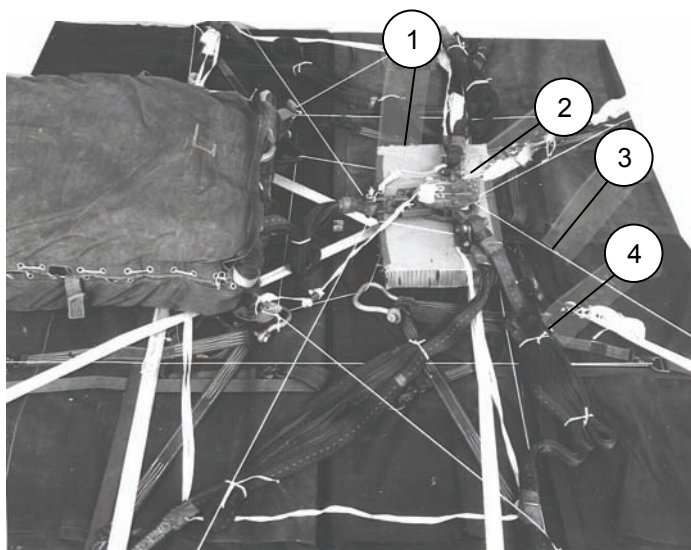


Figure 2-40. EFTC Installed

INSTALLING PARACHUTE RELEASE

2-37. Prepare, attach, and safety an M-1 cargo parachute release according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-41.



1. Position an 18- by 24-inch piece of honeycomb on top of the load, and secure the honeycomb with type III nylon cord.
2. Place the M-1 release on top of the honeycomb, and attach the suspension slings and the parachute riser extensions.
3. Secure the M-1 release to convenient points on the load with type III nylon cord.
4. S-fold and tie any excess suspension slings.

Figure 2-41. M-1 Cargo Parachute Release Installed

PLACING EXTRACTION PARACHUTE

2-38. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Place the extraction parachute and line on the load for installation in the aircraft.

INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS

2-39. Select and install the provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 4-20.102/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

MARKING RIGGED LOAD

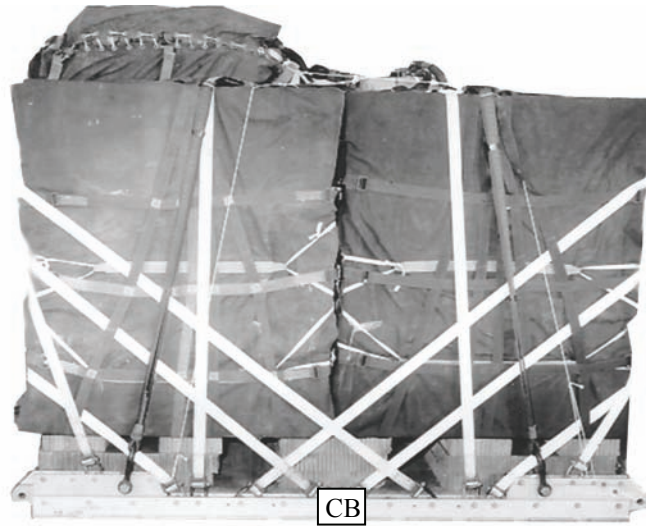
2-40. Mark the rigged load according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5, and as shown in Figure 2-42. Complete Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

EQUIPMENT REQUIRED

2-41. Use the equipment listed in Table 2-3 to rig this load.

CAUTION

Make the final rigger inspection required by AR 59-4 and FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown	4,040 pounds
Height	83 inches
Width.....	108 inches
Overall Length	98 inches
Overhang: Front	1 inch
Rear	1 inch
Center of Balance (from front edge of the platform).....	50 inches
Extraction System with 12-foot cable (adds 18 inches to length of platform)	EFTC

Figure 2-42. One-Round Containers Rigged in Four A-22 Cargo Bags on an 8-Foot, Type V Platform for Low-Velocity Airdrop

Table 2-3. Equipment Required for Rigging One -Round Dragon or Dragon II Missile Containers in Four A-22 Cargo Bags on an 8-Foot, Type V Platform for Low-Velocity Airdrop

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste, 1-gallon	As required
8465-00-587-3421	Bag, cargo, aerial delivery, type A-22	4
	Clevis, suspension:	
4030-00-678-8562	3/4-inch (medium) emergency restraint	2
4030-00-090-5354	1-inch (large)	9
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer with 12-foot cable	1
1670-00-360-0328	Cover, clevis, large	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-inch thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-foot (1-loop)	1
	Or	
1670-01-107-7652	160-foot (1-loop)	2
1670-01-064-4452	60-foot (1-loop), type XXVI for C-17 drogue line	1
	Link assembly, two-point:	
5306-00-435-8994	Bolt, 1-inch diameter, 4-inch long	1
5310-00-232-5165	Nut, 1-inch, hexagonal	1
1670-00-003-1953	Plate, side 3 3/4-inch	1
5365-00-007-3414	Spacer, large	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb	10 sheets
	Parachute:	
1670-01-016-7841	Cargo, G-11B	1
1670-01-063-3715	Cargo, extraction, 15-foot	1
	Platform, airdrop, type V, 8-foot	
1670-01-353-8425	Bracket assembly, EFTC	1
1670-01-162-2376	Bracket assembly, extraction	1
1670-01-162-2372	Clevis assembly	20
1670-01-162-2381	Tandem link	4
5530-00-128-4981	Plywood, 3/4-inch	2 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 2-3. Equipment Required for Rigging One -Round Dragon or Dragon II Missile Containers in Four A-22 Cargo Bags on an 8-Foot, Type V Platform for Low-Velocity Airdrop (Continued)

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
	Sling, cargo airdrop:	
	For deployment line:	
1670-00-753-3792	12-foot (2-loop), type XXVI nylon webbing	1
	For riser extension:	
1670-01-062-6301	3-foot (2-loop), type XXVI nylon webbing	1
	For suspension:	
1670-01-063-7761	16-foot (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap parachute release, multicut	1
7515-00-266-5016	Tape, adhesive, 2-inch	As required
7501-00-266-6710	Tape, masking	As required
1670-01-4838259	Towplate release mechanism (H-block) (C-17)	1
1670-00-937-0271	Tie-down assembly, 15-foot	28
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-inch	As required
8305-00-263-3591	Type VIII webbing	As required

SECTION IV-RIGGING FOUR 15-ROUND CONTAINERS

DESCRIPTION OF LOAD

2-42. Four Dragon or Dragon II missiles in 15-round containers are rigged in four A-22 cargo slings on an 8-foot, type V airdrop platform with one G-11 cargo parachute for low-velocity airdrop (LVAD) from a C-130 or C-17 aircraft. Each container is 49 inches long, 37 inches wide, 67 inches high, and weighs 695 pounds.

PREPARING PLATFORM

2-43. Prepare an 8-foot airdrop platform as shown in Figure 2-43.

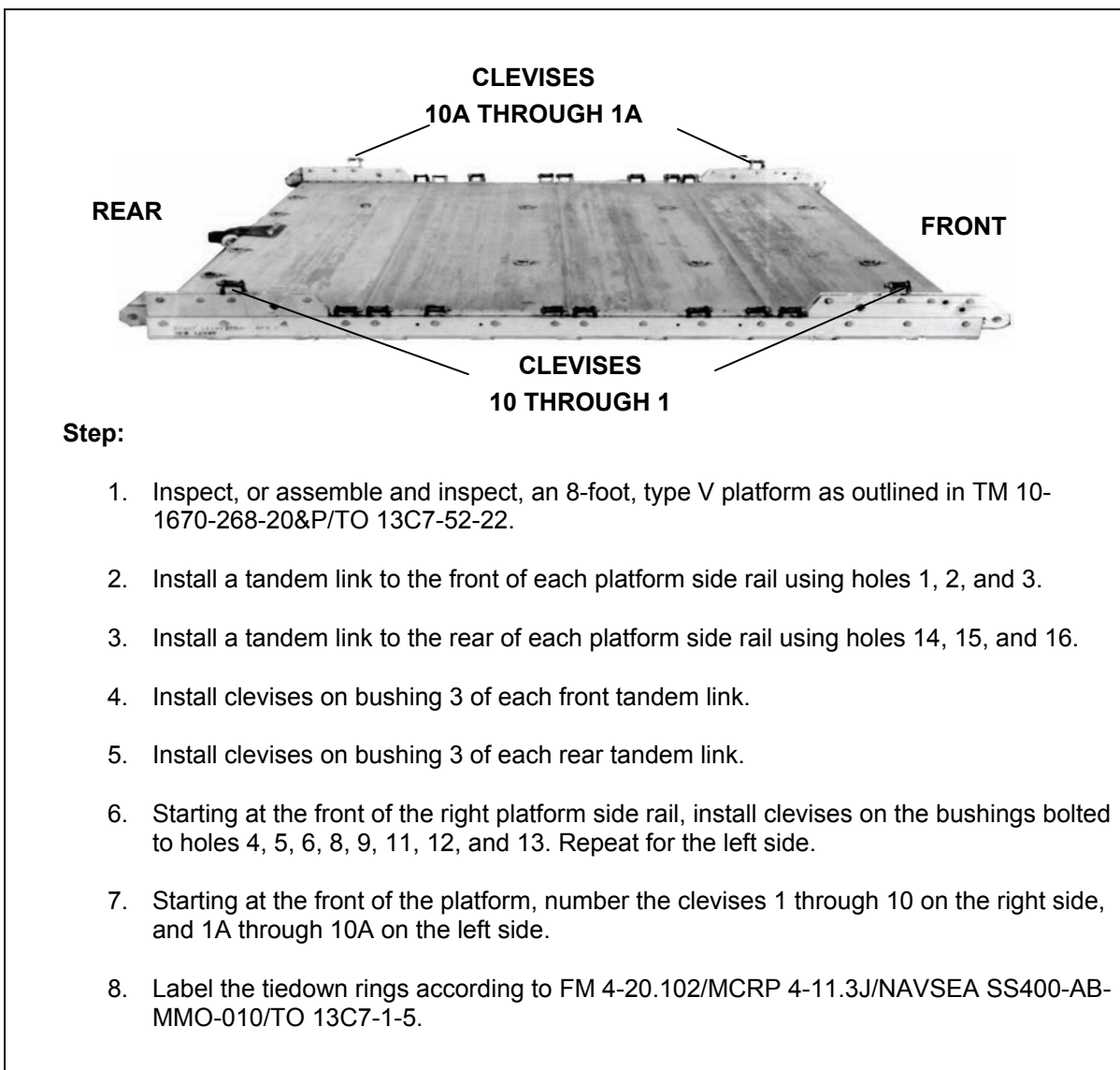


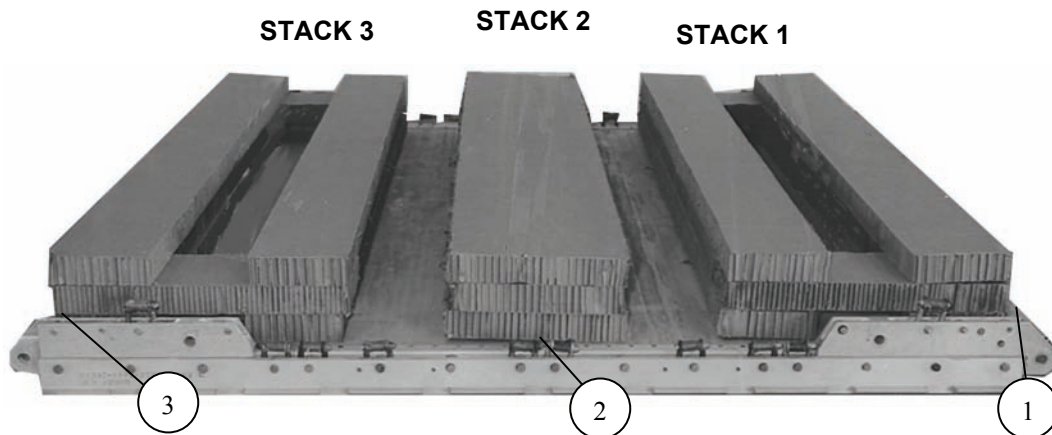
Figure 2-43. Platform Prepared

BUILDING AND PLACING HONEYCOMB STACKS

2-44. Prepare and position the honeycomb stacks as shown in Figure 2-44.

Notes.

1. Measurements from the front of the platform are taken from the front edge of the first panel.
2. Measurements from the rear edge of the platform are taken from the rear edge of the last panel.



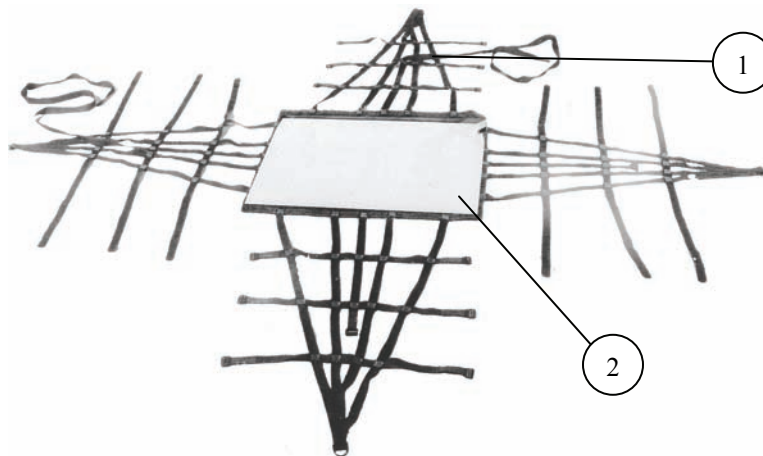
1. Build the first stack by using the following pieces of honeycomb, and position the honeycomb flush with the front edge of the platform.

4 pieces	10- by 80-inches	(1 st and 3 rd layers)
2 pieces	10- by 60-inches	(2 nd layer)
2 pieces	10- by 29-inches	(2 nd layer bridge)
2. Build the second stack by using three pieces of honeycomb (18- by 80-inch). Center the stack over the joint where the second and third panels join together and between the side rails.
3. Build the third stack by repeating step 1 above, and position the honeycomb flush with the rear edge of the platform.

Figure 2-44. Honeycomb Stacks Positioned

PREPARING THE LOAD

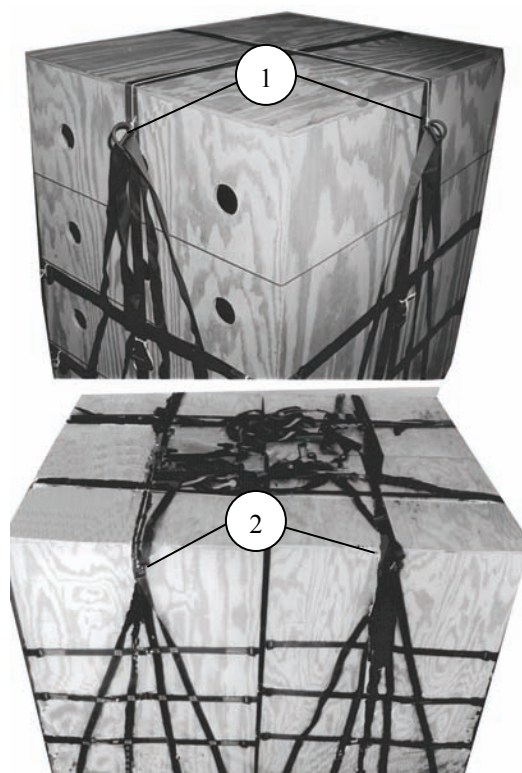
2-45. Prepare four A-22 cargo slings with four 15-round containers as shown in Figures 2-45 and 2-46. However, do not use the skid or skid honeycomb. Close the A-22 slings by following steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.



1. Position the A-22 sling assembly by following the procedures outlined in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.
2. Center a 3/4- by 38- by 48-inch piece of plywood on the scuff pad.

Note. Set the container on the plywood. Close the A-22 cargo sling by following the steps in FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11.

Figure 2-45. Cargo Sling and Plywood Positioned



1. Tie the D-ring on the support web to the front support web with type III nylon cord. Tie the D-rings of the side of the support webs together using type III nylon cord.
2. Snap another suspension web to each normally rigged suspension web. This gives a two-suspension web length snapped onto the D-rings. Be sure the open side of the connector straps faces inward. Tape all connector snaps.

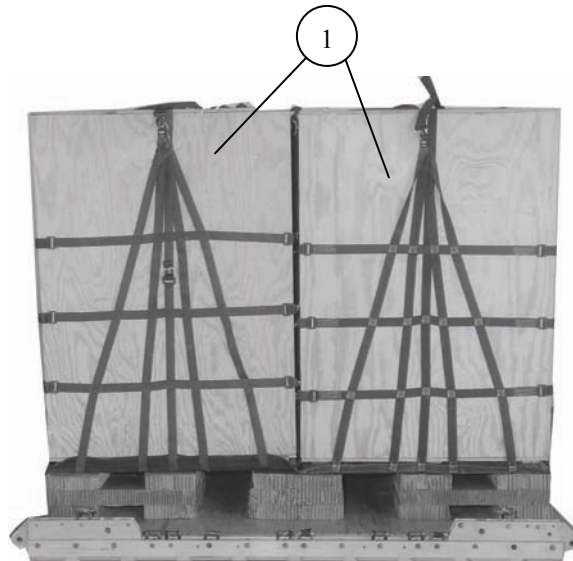
Figure 2-46. Containers Positioned and Cargo Slings Closed

POSITIONING LOAD

2-46. Place the four A-22 cargo slings with four 15-round containers on the honeycomb stacks as shown in Figure 2-47.

CAUTION

Make sure the inspection port holes in the missile containers face the front and rear of the platform: the inspection port holes face the rear of the platform in the container groups.



1. Place four A-22 cargo slings on the honeycomb, centering them from side to side and from front to rear on the platform.

Figure 2-47. Missile Containers Positioned

LASHING MISSILE CONTAINERS

2-47. Lash the containers to the platform as shown in Figures 2-48 through 2-50. Install and safety the lashings as outlined in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

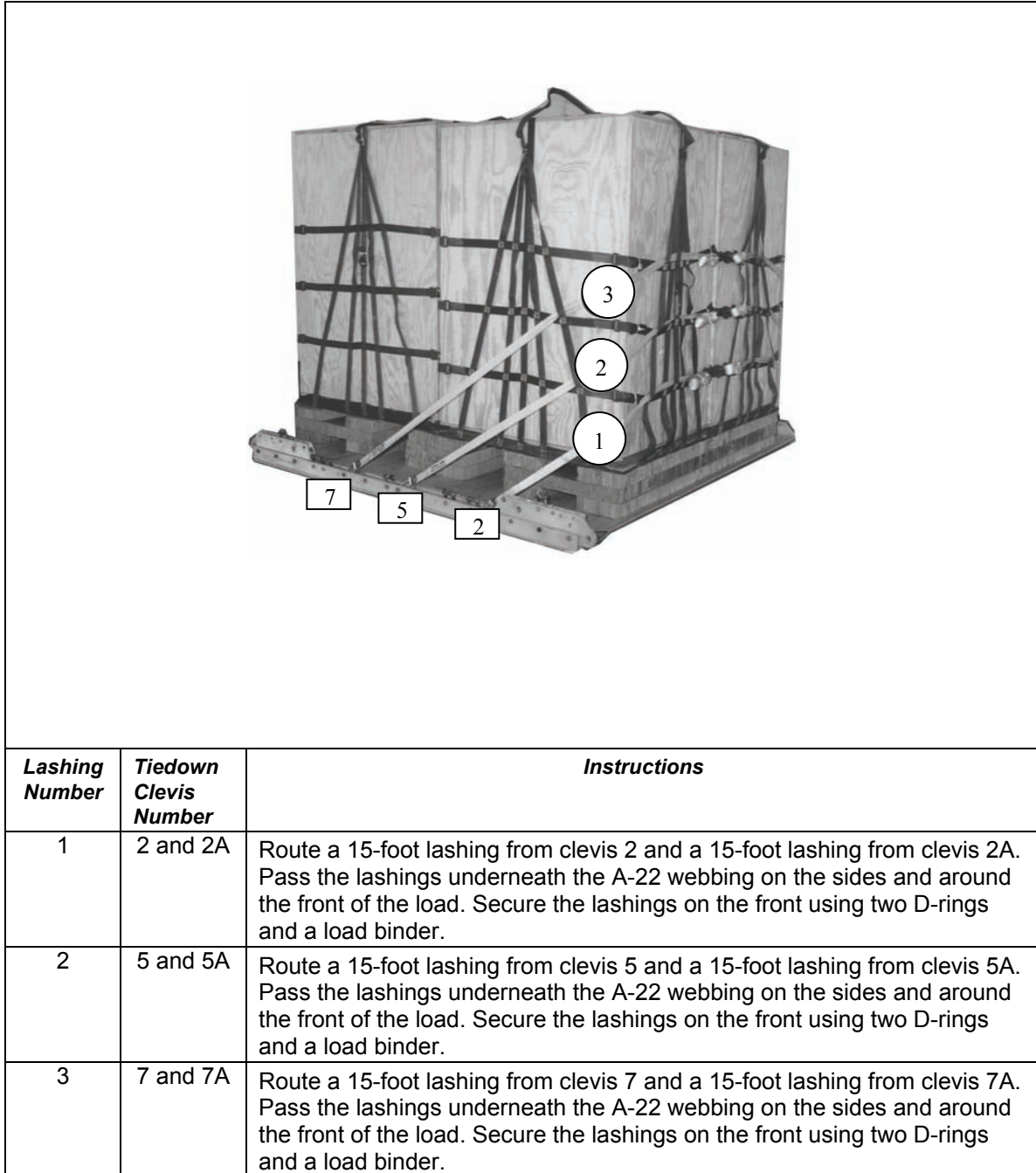
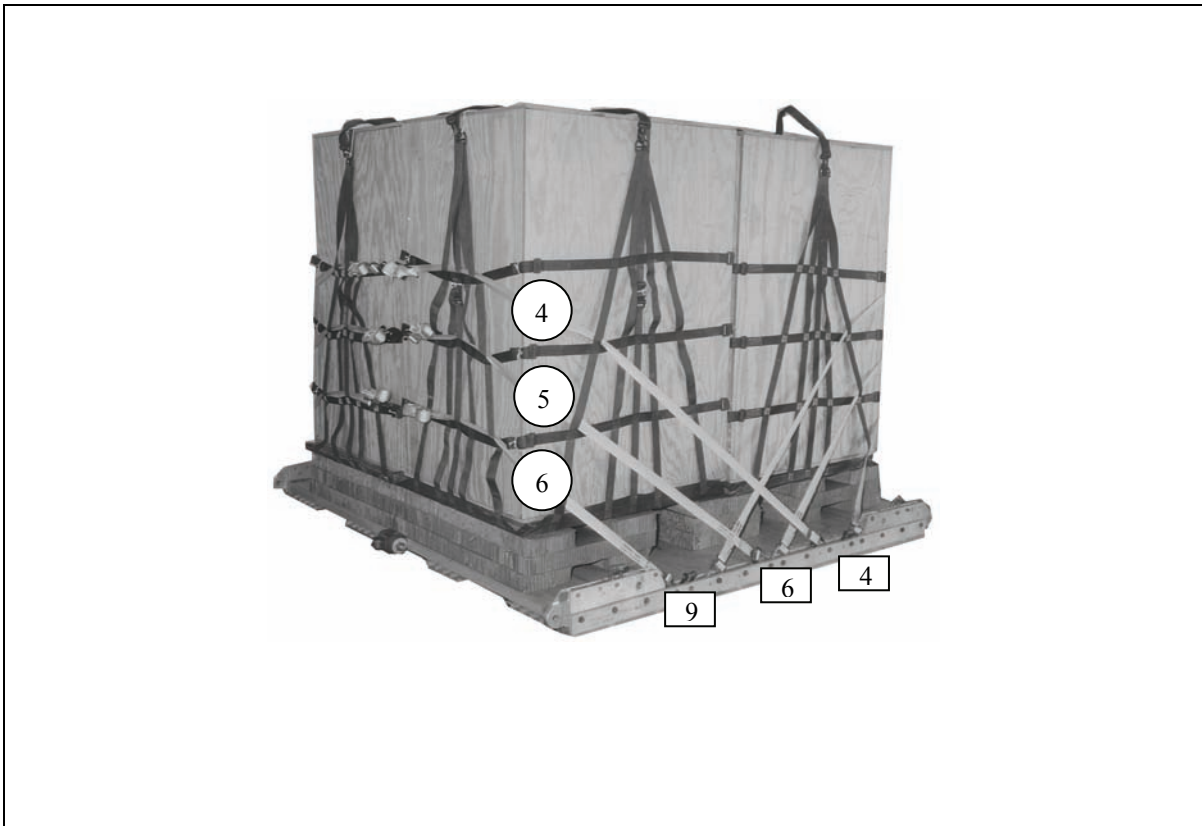
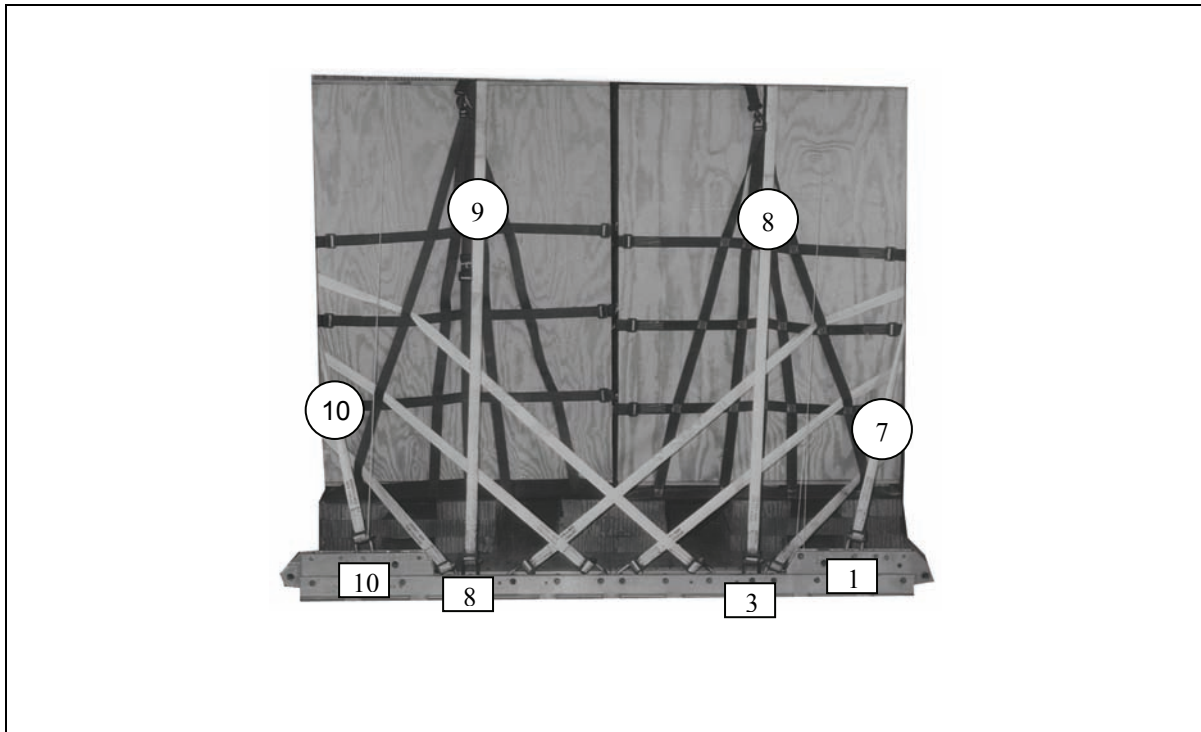


Figure 2-48. Lashings 1 Through 3 Installed



Lashing Number	Tiedown Clevis Number	Instructions
4	4 and 4A	Route a 15-foot lashing from clevis 4 and a 15-foot lashing from clevis 4A. Pass the lashings underneath the A-22 webbing on the sides and around the rear of the load. Secure the lashings on the rear using two D-rings and a load binder.
5	6 and 6A	Route a 15-foot lashing from clevis 6 and a 15-foot lashing from clevis 6A. Pass the lashings underneath the A-22 webbing on the sides and around the rear of the load. Secure the lashings on the rear using two D-rings and a load binder.
6	9 and 9A	Route a 15-foot lashing from clevis 9 and a 15-foot lashing from clevis 9A. Pass the lashings underneath the A-22 webbing on the sides and around the rear of the load. Secure the lashings on the rear using two D-rings and a load binder.

Figure 2-49. Lashings 4 Through 6 Installed

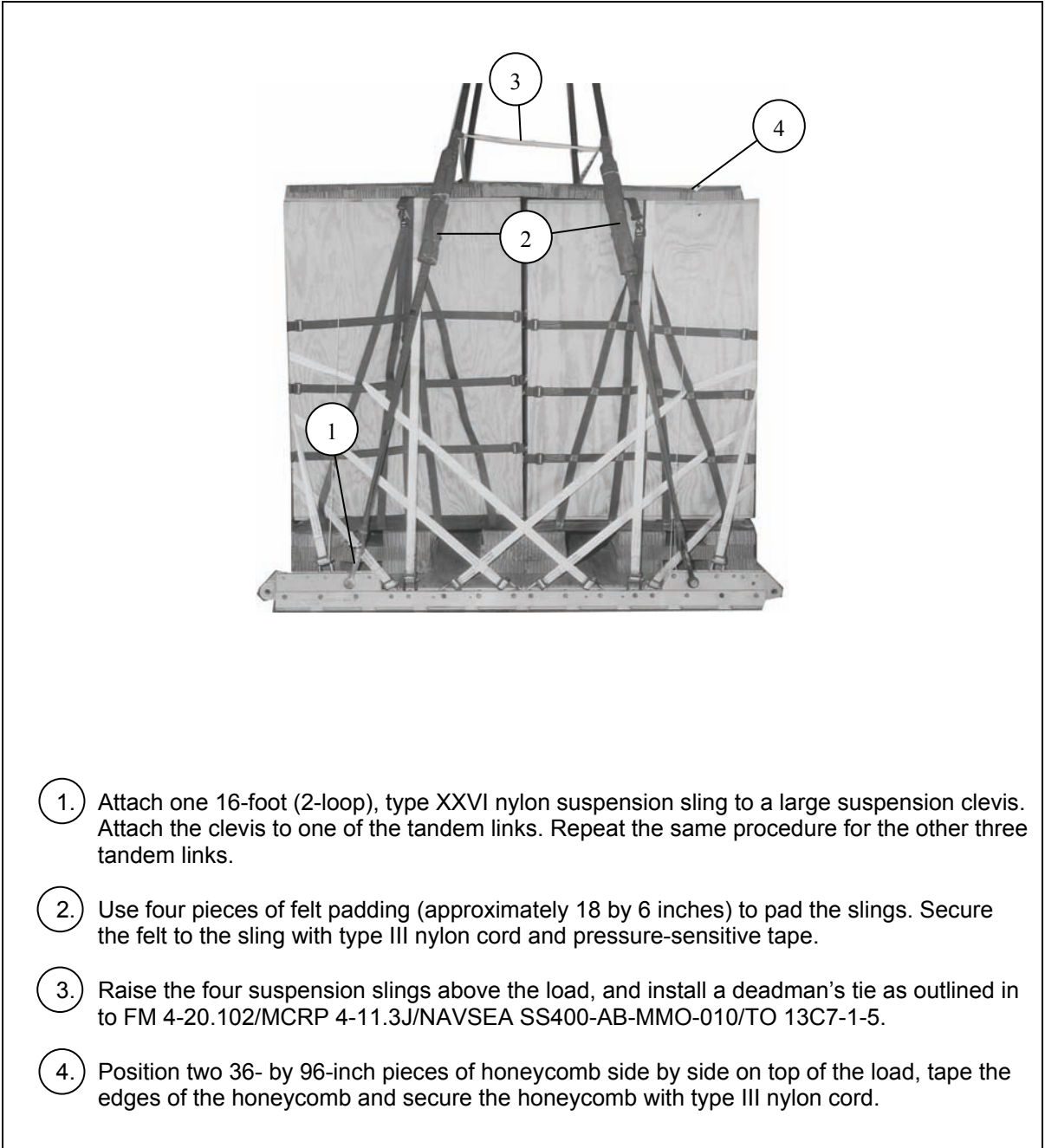


Lashing Number	Tiedown Clevis Number	Instructions
7	1 and 10A	Route a 15-foot lashing from clevis 1 and a 15-foot lashing from clevis 10A. Pass the lashings around the front and rear of the load and up over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
8	3 and 3A	Route a 15-foot lashing from clevis 3 and a 15-foot lashing from clevis 3A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
9	8 and 8A	Route a 15-foot lashing from clevis 8 and a 15-foot lashing from clevis 8A. Pass the lashings over the top of the load. Secure the lashings on the top using two D-rings and a load binder.
10	10 and 1A	Route a 15-foot lashing from clevis 10 and a 15-foot lashing from clevis 1A. Pass the lashings around the front and rear of the load and up over the top of the load. Secure the lashings on the top using two D-rings and a load binder.

Figure 2-50. Lashings 7 Through 10 Installed

INSTALLING SUSPENSION SLINGS AND DEADMAN'S TIE

2-48. Install and safety four 16-foot (2-loop), type XXVI nylon slings and four large clevises. Attach each sling to a clevis and attach one clevis to each of the four tandem links as shown in Figure 2-51.



1. Attach one 16-foot (2-loop), type XXVI nylon suspension sling to a large suspension clevis. Attach the clevis to one of the tandem links. Repeat the same procedure for the other three tandem links.
2. Use four pieces of felt padding (approximately 18 by 6 inches) to pad the slings. Secure the felt to the sling with type III nylon cord and pressure-sensitive tape.
3. Raise the four suspension slings above the load, and install a deadman's tie as outlined in to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.
4. Position two 36- by 96-inch pieces of honeycomb side by side on top of the load, tape the edges of the honeycomb and secure the honeycomb with type III nylon cord.

Figure 2-51. Suspension Slings and Deadman's Tie Installed

STOWING CARGO PARACHUTE

2-49. Stow one G-11 cargo parachute according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-52.

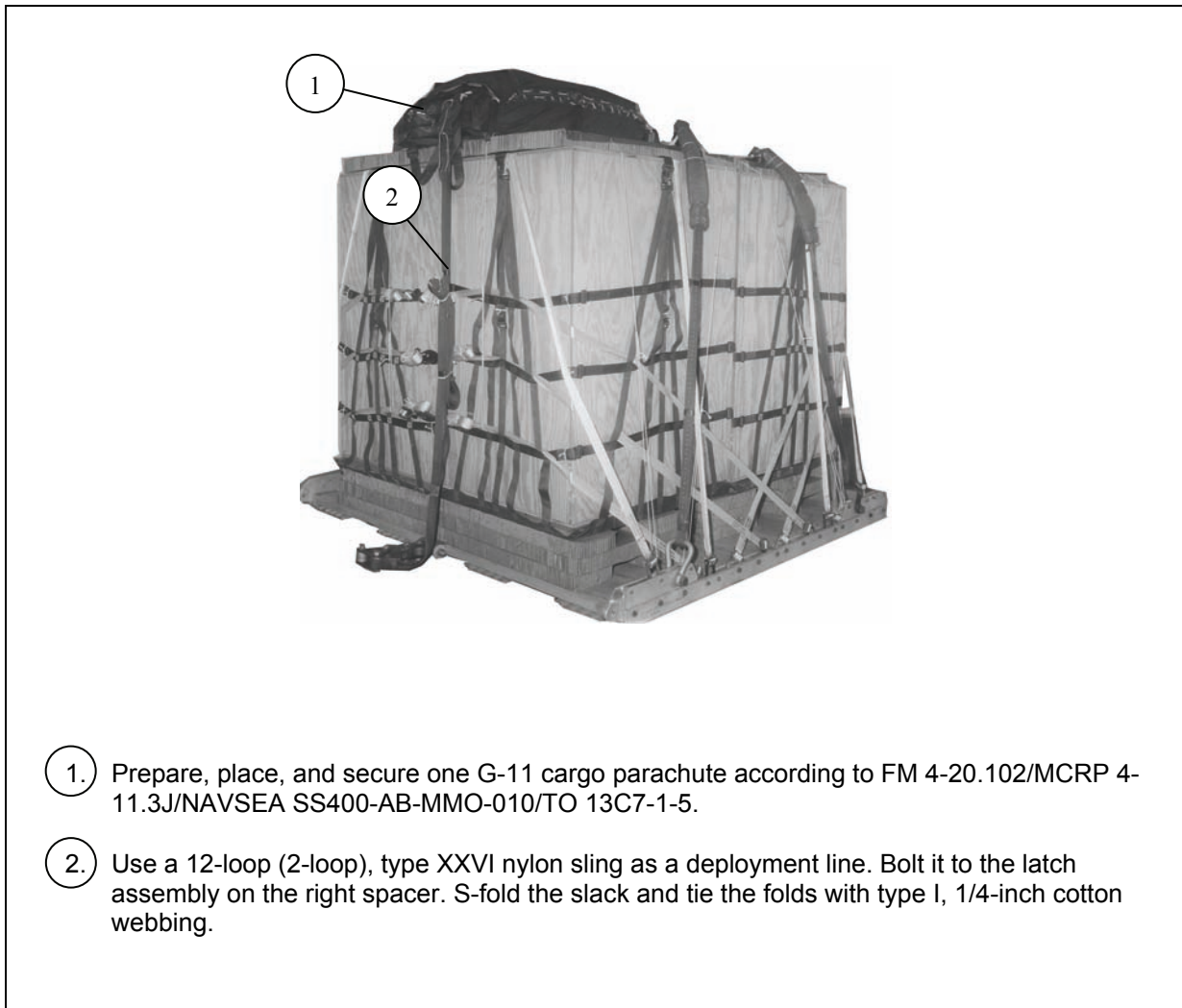


Figure 2-52. Cargo Parachute Stowed and Secured to Load

INSTALLING EXTRACTION SYSTEM

2-50. Attach the components of the Extraction Force Transfer Coupling (EFTC) according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-53.

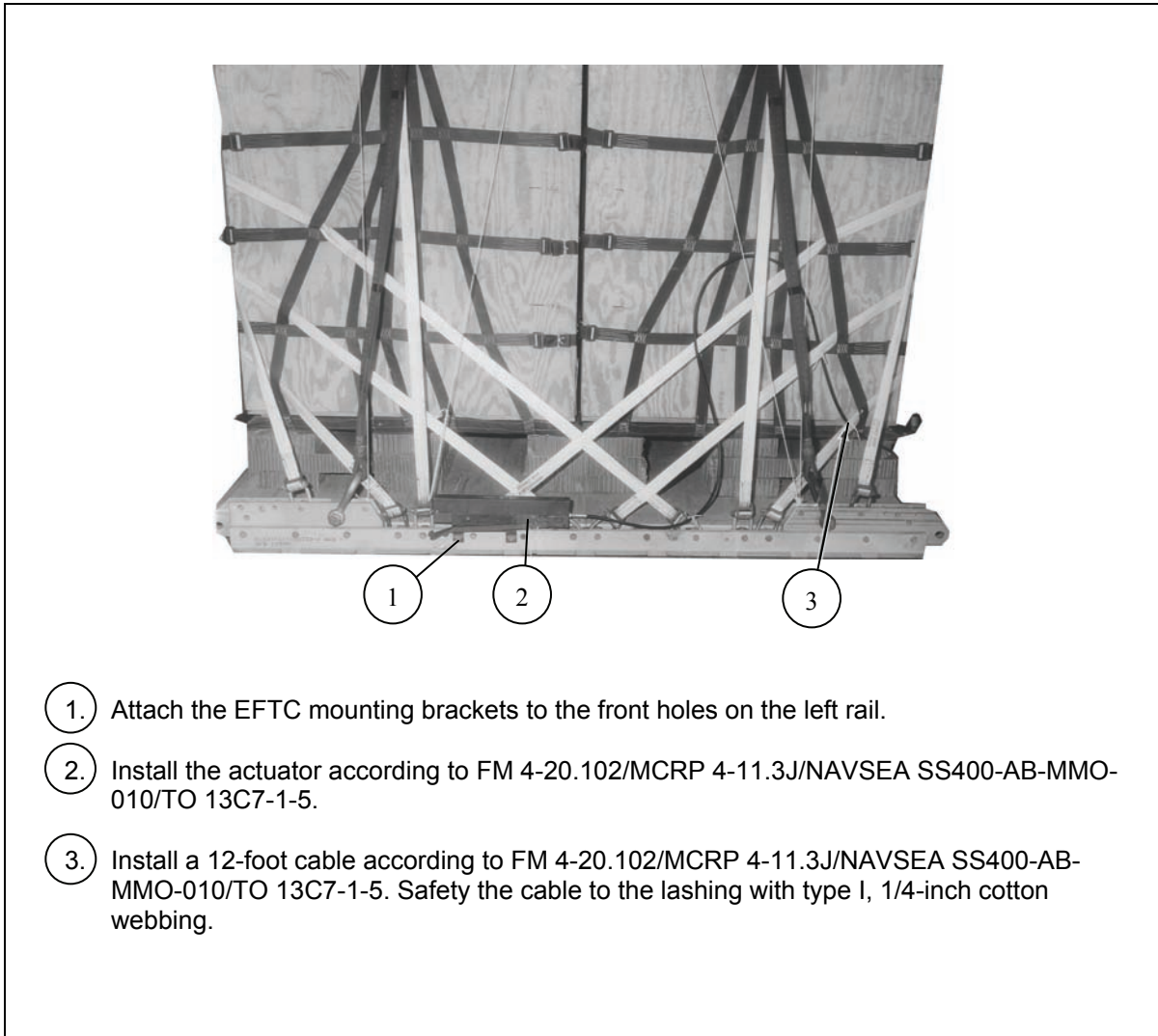


Figure 2-53. EFTC Installed

INSTALLING PARACHUTE RELEASE

2-51. Prepare, attach, and safety an M-1 cargo parachute release according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 and as shown in Figure 2-54.

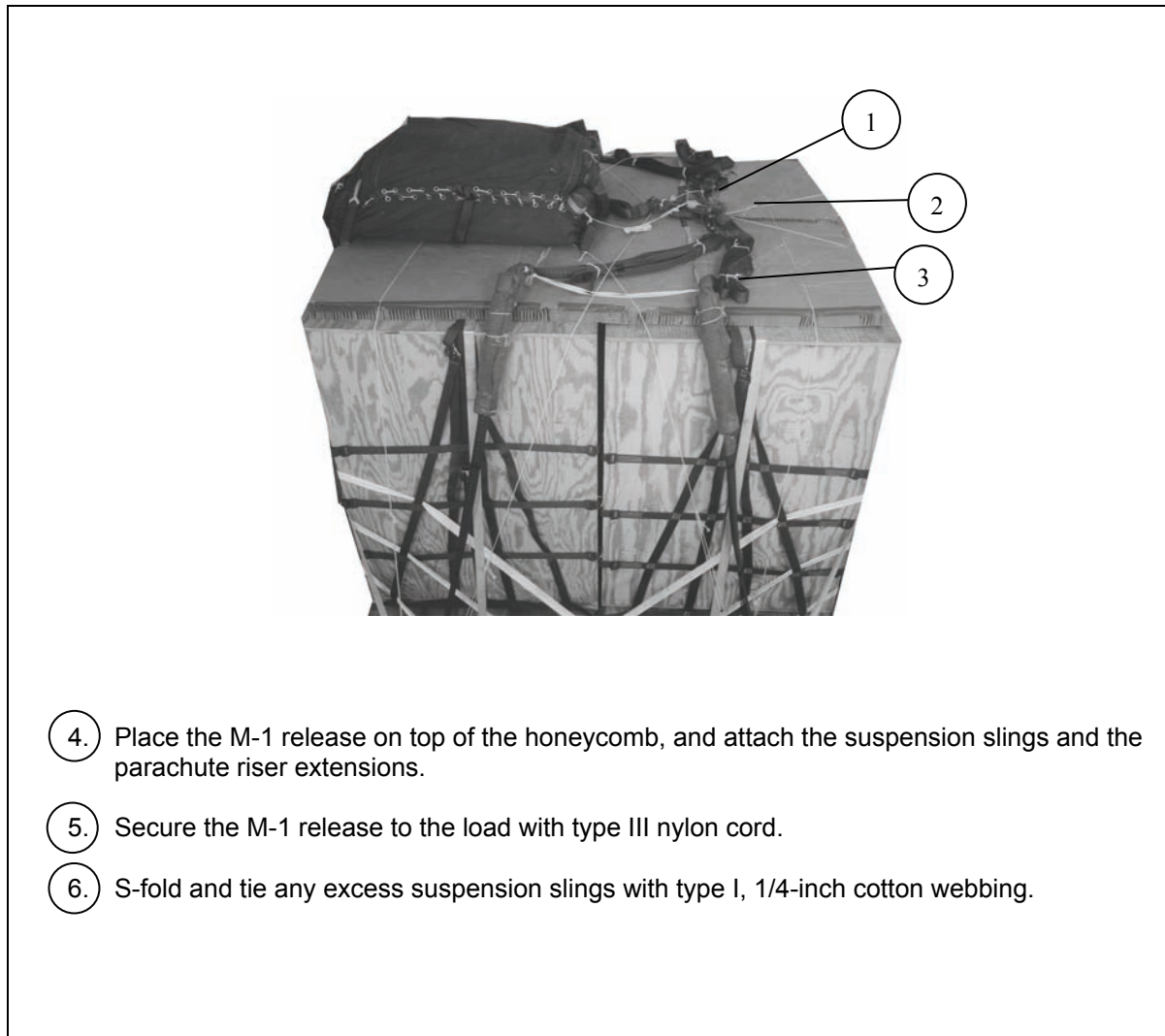


Figure 2-54. M-1 Cargo Parachute Release Installed

PLACING EXTRACTION PARACHUTE

2-52. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5. Place the extraction parachute and line on the load for installation in the aircraft.

INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS

2-53. Select and install the provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5.

MARKING RIGGED LOAD

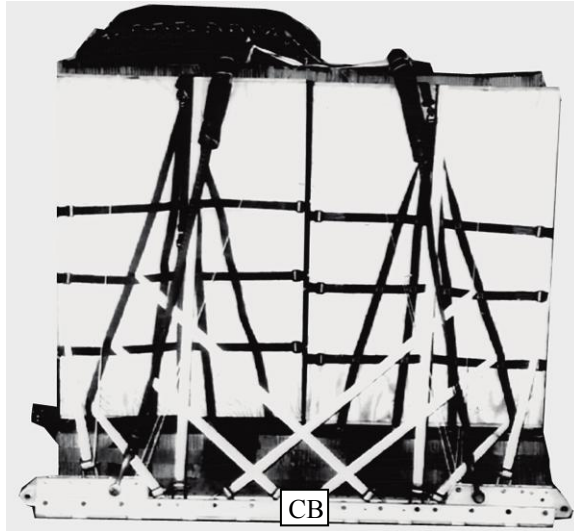
2-54. Mark the rigged load according to FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5, and as shown in Figure 2-55. Complete Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

EQUIPMENT REQUIRED

2-55. Use the equipment listed in Table 2-4 to rig this load.

CAUTION

Make the final rigger inspection required by AR 59-4 and FM 4-20.102/MCRP 4-11.3J/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown	4,440 pounds
Height	83 inches
Width.....	108 inches
Overall Length	96 inches
Overhang: Front	0 inches
Rear	0 inches
Center of Balance (from front edge of the platform).....	51 inches
Extraction System with 12-foot cable (adds 18 inches to length of platform)	EFTC

Figure 2-55. Four Fifteen-Round Containers Rigged in A-22 Cargo Slings on Type V Platform for Low-Velocity Airdrop

Table 2-4. Equipment Required for Rigging Four 15 -Round Dragon or Dragon II Missile Containers in Four A-22 Cargo Slings on an 8-Foot, Type V Platform for Low-Velocity Airdrop

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
8040-00-273-8713	Adhesive, paste, 1-gallon	As required
8465-00-587-3421	Bag, cargo, aerial delivery, type A-22	4
	Clevis, suspension:	
4030-00-678-8562	3/4-inch (medium) emergency restraint	2
4030-00-090-5354	1-inch (large)	5
4020-00-240-2146	Cord, nylon, type III	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer with 12-foot cable	1
1670-00-360-0328	Cover, clevis, large	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-inch thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-foot (1-loop)	1
	Or	
1670-01-107-7652	160-foot (1-loop)	2
1670-01-064-4452	60-foot (1-loop), type XXVI for C-17 drogue line	1
	Link assembly, two-point:	
5306-00-435-8994	Bolt, 1-inch diameter, 4-inch long	1
5310-00-232-5165	Nut, 1-inch, hexagonal	1
1670-00-003-1953	Plate, side 3 3/4-inch	1
5365-00-007-3414	Spacer, large	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb	8 sheets
	Parachute:	
1670-01-016-7841	Cargo, G-11B	1
1670-01-063-3715	Cargo, extraction, 15-foot	1
	Platform, airdrop, type V, 8-foot	
1670-01-353-8425	Bracket assembly, EFTC	1
1670-01-162-2376	Bracket assembly, extraction	1
1670-01-162-2372	Clevis assembly	20
1670-01-162-2381	Tandem link	4
5530-00-128-4981	Plywood, 3/4-inch	2 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 2-4. Equipment Required for Rigging Four 15 -Round Dragon or Dragon II Missile Containers in Four A-22 Cargo Slings on an 8-Foot, Type V Platform for Low-Velocity Airdrop (Continued)

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
1670-00-753-3792	Sling, cargo airdrop: For deployment line: 12-foot (2-loop), type XXVI nylon webbing	1
1670-01-062-6301	For riser extension: 3-foot (2-loop), type XXVI nylon webbing	5
1670-01-063-7761	For suspension: 16-foot (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap parachute release, multicut	1
7515-00-266-5016	Tape, adhesive, 2-inch	As required
7501-00-266-6710	Tape, masking	As required
1670-00-937-0271	Tie-down assembly, 15-foot	20
8305-00-268-2411	Webbing: Cotton, 1/4-inch, type I	As required
8305-00-082-5752	Nylon: Tubular, 1/2-inch	As required
8305-00-263-3591	Type VIII webbing	As required