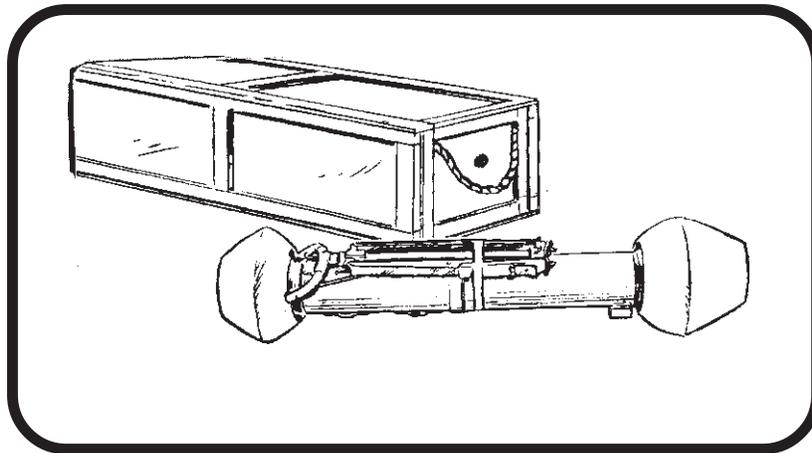


**AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING DRAGON AND
JAVELIN MISSILES**



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**AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING DRAGON AND JAVELIN MISSILES**

This change adds the procedures for rigging Javelin missiles on a two-round and four-round A-7A door bundle, nine missiles on an A-22 stretch container and thirty-six Javelin missiles as a mass supply load on a 12-foot, Type V platform for low-velocity airdrop.

FM 10-552/TO 13C7-22-61, 5 March 1982, is changed as follows:

1. New or changed material is identified by a vertical bar (■) in the margin opposite the changed material.
2. File this transmittal page in front of the publication
3. Remove old pages and insert new pages as indicated below:

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i-ii

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1-1

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i-ii

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Washington, DC, 5 March 1982

**AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING DRAGON AND JAVELIN MISSILES**

TABLE OF CONTENTS

	Paragraph	Page
PREFACE		vi
CHAPTER 1. INTRODUCTION		
Description of Items.....	1-1	1-1
Special Considerations.....	1-2	1-1
CHAPTER 2. RIGGING AN A-22 CARGO BAG		
Section I. RIGGING NINE ONE-ROUND CONTAINERS		
Description of Load.....	2-1	2-1
Rigging Load.....	2-2	2-1
Closing Cargo Bag.....	2-3	2-1
Installing Parachutes.....	2-4	2-1
Equipment Required.....	2-5	2-1
Section II. RIGGING ONE 15-ROUND CONTAINER		
Description of Load.....	2-6	2-6
Rigging Load.....	2-7	2-6
Installing Parachutes.....	2-8	2-6
Equipment Required.....	2-9	2-7
CHAPTER 3. RIGGING CONTAINERS ON 8-FOOT PLATFORM FOR LOW-VELOCITY AIRDROP		
Section I. RIGGING THIRTY-SIX ONE-ROUND CONTAINERS		
Description of Load.....	3-1	3-1
Preparing Platform.....	3-2	3-1
Building and Placing Honeycomb Stacks.....	3-3	3-1
Positioning and Binding Container Groups.....	3-4	3-1
Lashing Containers.....	3-5	3-1
Safetying Suspension Slings.....	3-6	3-1
Installing Cargo Parachute.....	3-7	3-1
Installing Extraction System.....	3-8	3-10
Installing Release System.....	3-9	3-11
Placing Extraction Parachute.....	3-10	3-11
Marking Rigged Load.....	3-11	3-11
Equipment Required.....	3-12	3-11

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Section II. RIGGING FOUR 15-ROUND CONTAINERS	Paragraph	Page
Description of Load.....	3-13	3-14
Preparing Platform.....	3-14	3-14
Building and Placing Honeycomb Stacks.....	3-15	3-14
Positioning Load.....	3-16	3-14
Lashing Load.....	3-17	3-14
Safetying Suspension Slings.....	3-18	3-14
Installing Cargo Parachute.....	3-19	3-14
Installing Extraction System.....	3-20	3-15
Installing Release System.....	3-21	3-16
Placing Extraction Parachute.....	3-22	3-16
Marking Rigged Load.....	3-23	3-16
Equipment Required.....	3-24	3-16
Section III. RIGGING FOUR A-22 CARGO BAGS WITH ONE-ROUND CONTAINERS		
Description of Load.....	3-25	3-19
Preparing Platform.....	3-26	3-19
Building and Placing Honeycomb Stacks.....	3-27	3-19
Preparing Load.....	3-28	3-19
Positioning Load.....	3-29	3-19
Lashing Load.....	3-30	3-19
Installing Suspension Slings.....	3-31	3-19
Installing Cargo Parachute.....	3-32	3-19
Installing Extraction System.....	3-33	3-24
Installing Release System.....	3-34	3-25
Placing Extraction Parachute.....	3-35	3-25
Marking Rigged Load.....	3-36	3-25
Equipment Required.....	3-37	3-25
Section IV. RIGGING FOUR A-22 CARGO SLINGS WITH 15-ROUND CONTAINERS		
Description of Load.....	3-38	3-28
Preparing Platform.....	3-39	3-28
Building and Placing Honeycomb Stacks.....	3-40	3-28
Preparing Load.....	3-41	3-28
Positioning Load.....	3-42	3-28
Rigging Load.....	3-43	3-28
Marking Rigged Load.....	3-44	3-28
Equipment Required.....	3-45	3-28
CHAPTER 4. RIGGING CONTAINERS ON 12-FOOT PLATFORM FOR LAPES		
Section I. RIGGING THIRTY-SIX ONE-ROUND CONTAINERS		
Description of Load.....	4-1	4-1
Preparing Platform.....	4-2	4-1
Building and Placing Honeycomb Stacks.....	4-3	4-1
Positioning Front Container Groups.....	4-4	4-1
Lashing Front Container Groups.....	4-5	4-1
Positioning Rear Container Groups.....	4-6	4-1

Section IV.	RIGGING FOUR A-22 CARGO SLINGS WITH FOUR 15-ROUND CONTAINERS	Paragraph	Page
	Description of load.....	5-42	5-55
	Preparing Platform.....	5-43	5-55
	Building and Placing Honeycomb Stacks.....	5-44	5-57
	Preparing the Load.....	5-45	5-58
	Positioning the Load.....	5-46	5-60
	Lashing Missile Containers.....	5-47	5-61
	Installing Suspension Slings and Deadman's Tie.....	5-48	5-64
	Stowing Cargo Parachute.....	5-49	5-65
	Installing Extraction System.....	5-50	5-66
	Installing Parachute Release.....	5-51	5-67
	Placing Extraction Parachute.....	5-52	5-68
	Installing Provisions for Emergency Restraints.....	5-53	5-68
	Marking Rigged Load.....	5-54	5-68
	Equipment Required.....	5-55	5-70

CHAPTER 6. RIGGING THE ADVANCED ANTITANK WEAPON SYSTEM-MEDIUM (JAVELIN), FOR LOW-VELOCITY AIRDROP

Section I. RIGGING TWO-ROUND DOOR BUNDLE

Description of Load.....	6-1	6-1
Preparing Two-Round A-7A Door Bundle.....	6-2	6-1
Modifying a 24-Foot Troop, Chest, Reserve Parachute for Cargo Use.....	6-3	6-10
Closing the Pack Tray and Stowing the Static Line.....	6-4	6-11
Attaching Parachute to Load.....	6-5	6-12
Marking Rigged Load.....	6-6	6-13
Equipment Required.....	6-7	6-13

Section II. RIGGING FOUR-ROUND DOOR BUNDLE

Description of Load.....	6-8	6-15
Preparing Four-Round A-7A Door Bundle.....	6-9	6-15
Attaching Parachute to Load.....	6-10	6-25
Marking Rigged Load.....	6-11	6-26
Equipment Required.....	6-12	6-26

Section III RIGGING NINE-ROUND CDS RIGGED IN AN A-22 STRETCH CONTAINER

Description of Load.....	6-13	6-28
Preparing Skid Board, Ties and Positioning Honeycomb.....	6-14	6-28
Positioning A-22 Sling Assemblies.....	6-15	6-30
Positioning Covers and A-7A.....	6-16	6-31
Positioning and Securing Javelin Missiles.....	6-17	6-32
Securing the Lateral Straps and Installing Suspension Slings.....	6-18	6-33
Securing Skid Board Ties and Installing Parachute.....	6-19	6-34
Marking Rigged Load.....	6-20	6-35
Equipment Required.....	6-21	6-35

CHAPTER 7. RIGGING THIRTY-SIX JAVELIN ROUNDS AS A MASS SUPPLY LOAD ON A 12-FOOT, TYPE V AIRDROP PLATFORM FOR LOW-VELOCITY AIRDROP

	Paragraph	Page
Description of Load.....	7-1	7-1
Preparing Platform.....	7-2	7-1
Building and Positioning Honeycomb Stacks.....	7-3	7-3
Positioning and Securing Javelin Rounds.....	7-4	7-6
Lashing Load to Platform.....	7-5	7-13
Covering Load, Installing Suspension Slings and Deadman's Tie.....	7-6	7-17
Stowing Cargo Parachutes and Installing Extraction System.....	7-7	7-19
Installing Parachute Release.....	7-8	7-20
Placing Extraction Parachute.....	7-9	7-21
Installing Provisions for Emergency Restraints.....	7-10	7-21
Marking Rigged Load.....	7-11	7-21
Equipment Required.....	7-12	7-21

GLOSSARY	Glossary-1
REFERENCES	References-1

PREFACE

SCOPE

This manual tells and shows how to prepare and rig the Dragon or Dragon II antitank/assault and Javelin missiles for low-velocity airdrop from C-130, C-141, C-5, or C-17 aircraft. It is designed for use by all parachute riggers.

USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways for 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.

CHAPTER 1

INTRODUCTION

1-1. Description of Items

This manual tells and shows how to rig Dragon and Javelin antitank/assault missiles for airdrop. The missile containers may be airdropped in the following ways:

a. Nine one-round containers are rigged in an A-22 cargo bag on a standard skid for a low-velocity airdrop from a C-130, C-141B, or C-17 aircraft.

b. One 15-round container is rigged in an A-22 cargo sling on a standard skid for a low-velocity airdrop from a C-130, C-141B, or C-17 aircraft.

c. Thirty-six one-round containers are rigged on an 8-foot modular type II platform for a low-velocity airdrop from a C-130 or C-141B aircraft.

d. Four 15-round containers are rigged on an 8-foot modular type II platform for a low-velocity airdrop from a C-130 or C-141B aircraft.

e. Four A-22 cargo bags with nine one-round containers in each A-22 cargo bag are rigged on an 8-foot modular type II platform for a low-velocity airdrop from a C-130 or C-141B aircraft.

f. Four A-22 cargo slings with four 15-round containers are rigged on an 8-foot modular type II platform for a low-velocity airdrop from a C-130 or C-141B aircraft.

g. Thirty-six one-round containers are rigged on a 12-foot LAPES/AD platform for a low-altitude parachute extraction system (LAPES) airdrop from a C-130 aircraft.

Note: LAPES loads weighing less than 6,700 pounds must be dropped as part of a tandem drop.

h. Four 15-round containers are rigged on a 12-foot LAPES/AD platform for a LAPES airdrop from a C-130 aircraft. (See note in g above.)

i. Four A-22 cargo bags with nine one-round containers in each A-22 cargo bag are rigged on a 12-foot LAPES/AD platform for a LAPES airdrop from a C-130 aircraft. (See note in g above.)

j. Four A-22 cargo slings with 15-round containers are rigged on a 12-foot LAPES/AD platform for a LAPES airdrop from a C-130 aircraft. (See note in g above.)

k. Thirty-six one-round containers are rigged on an 8-foot, type V airdrop platform for a low-velocity airdrop from a C-130 or C-141B aircraft.

l. Four 15-round containers are rigged on an 8-foot, type V airdrop platform for a low-velocity airdrop from a C-130, C-141B, or C-17 aircraft.

m. Four A-22 cargo bags with nine one-round containers in each A-22 cargo bag are rigged on an 8-foot, type V airdrop platform for a low-velocity airdrop from a C-130, C-141B, or C-17 aircraft.

n. Four A-22 cargo slings with four 15-round containers are rigged on an 8-foot, type V airdrop platform for a low-velocity airdrop from a C-130, C-141B, C-5, or C-17 aircraft.

Note: The following deals with Javelin rounds and containers.

o. Javelin two-round A-7A door bundle rigged for low-velocity airdrop from a C-130 or C-141 aircraft.

p. Javelin four-round A-7A door bundle rigged for low-velocity airdrop from a C-130 or C-141 aircraft.

q. Javelin six-round A-22 stretch container rigged for low-velocity airdrop from a C-130 or C-141 aircraft.

r. Javelin thirty-six round mass supply load on a 12-foot, Type V, airdrop platform for low-velocity airdrop from a C-130, C-141, C-5, or C-17 aircraft.

1-2. Special Considerations

a. These loads contain dangerous explosives as defined by *AFJMAN 24-204/TM 38-250*.

b. A copy of this manual must be available for the joint airdrop inspectors to use during the before and after loading inspections.

CHAPTER 6

RIGGING THE ADVANCED ANTITANK WEAPON SYSTEM-MEDIUM (JAVELIN) FOR LOW-VELOCITY AIRDROP

Section I

RIGGING TWO-ROUND A-7A DOOR BUNDLE

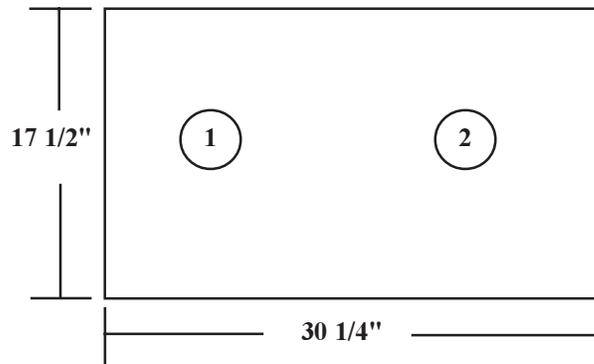
6-1. Description of Load

The Javelin Missile System is a man-portable antitank weapon system made up of a tactical round in a disposable launch tube and a reusable Command Launch Unit (CLU). The Command Launch Unit is not rigged with the tactical rounds. The Javelin can be airdropped as a door bundle in two-round and four-round configurations. As a door bundle, the Javelin can be dropped only from C-130 and C-141 aircraft. The Javelin two-round A-7A door bundle has an approximate rigged weight of 146 pounds. It has a height of 65 1/2 inches, a width of 17 1/2 inches and a length of 30 1/4 inches.

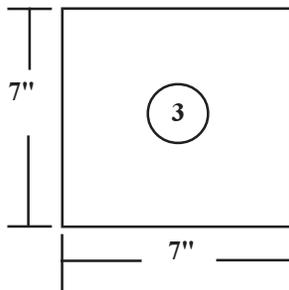
The two-round bundle uses the 24-foot diameter, troop, chest, reserve parachute modified for cargo application. Procedures for modifying the 24-foot troop reserve parachute for cargo use are given in this section.

6-2. Preparing Two-Round A-7A Door Bundle

Prepare the two-round A-7A door bundle according to FM 10-500-3/TO 13C7-1-11 and as shown in Figure 6-1.

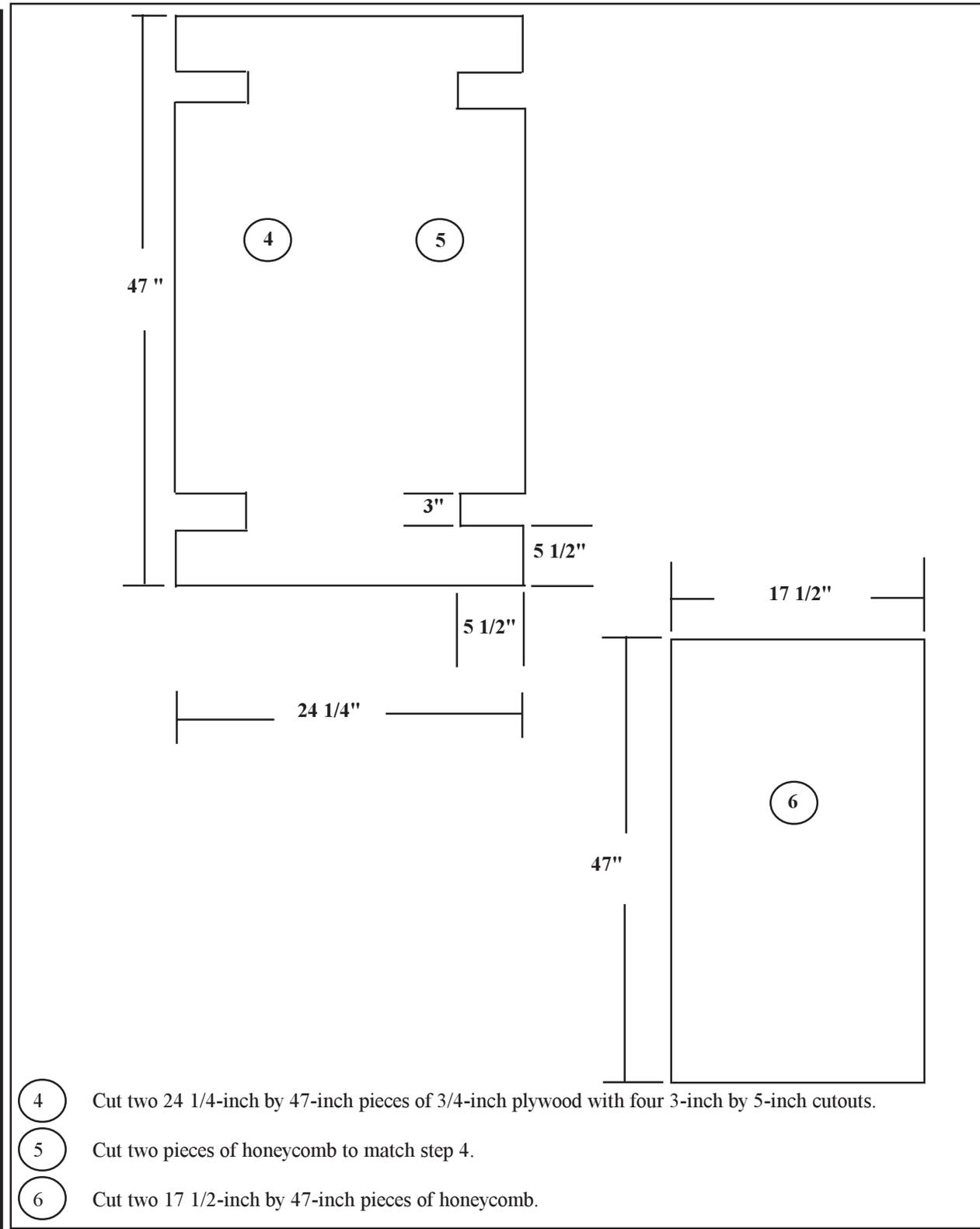


- ① Cut two 17 1/2-inch by 30 1/4-inch pieces of 3/4-inch plywood.
- ② Cut two 17 1/2-inch by 30 1/4-inch pieces of honeycomb.



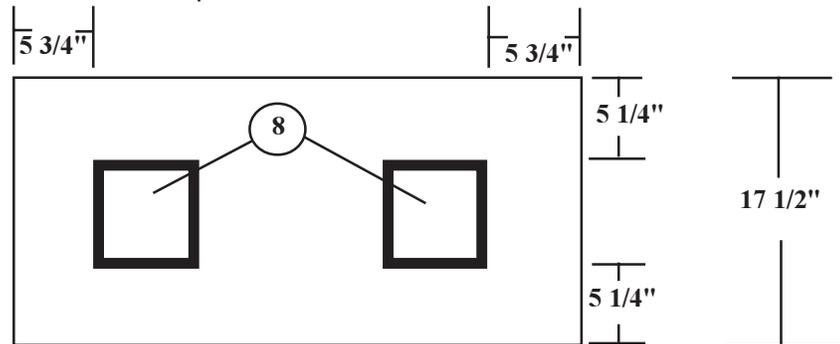
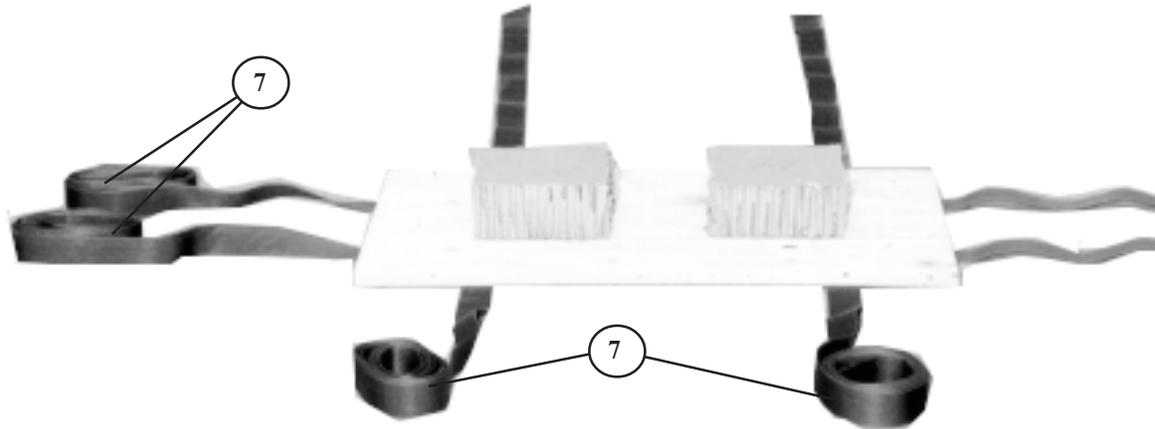
- ③ Cut two 7-inch by 7-inch pieces of honeycomb.

Figure 6-1. Two-round A-7A door bundle prepared



- ④ Cut two 24 1/4-inch by 47-inch pieces of 3/4-inch plywood with four 3-inch by 5-inch cutouts.
- ⑤ Cut two pieces of honeycomb to match step 4.
- ⑥ Cut two 17 1/2-inch by 47-inch pieces of honeycomb.

Figure 6-1. Two-round A-7A door bundle prepared (continued)



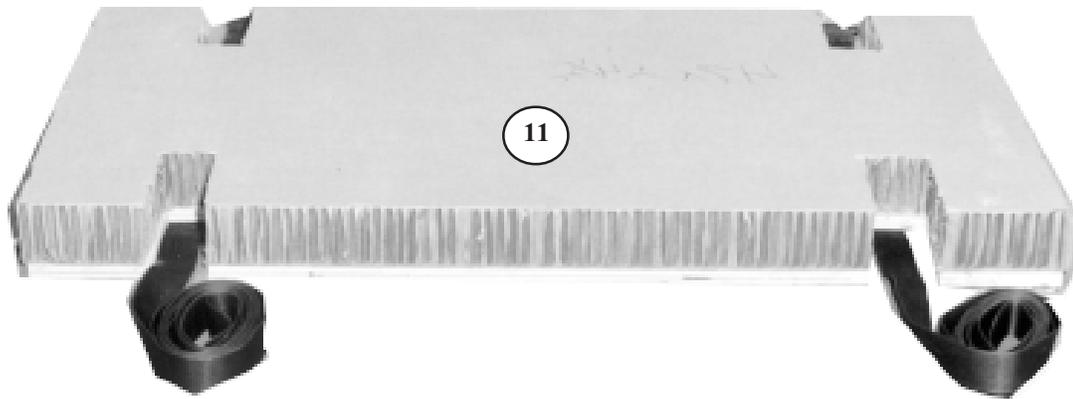
- ⑦ Position four A-7A straps under one of the 17 1/2-inch by 30 1/4-inch pieces of plywood. Position each strap approximately 5 inches from each edge of the plywood.
- ⑧ Position and glue the two 7-inch by 7-inch pieces of honeycomb on top of the plywood. Each piece should be 5 1/4 inches from the right and left edges of the plywood. Each piece should also be 5 3/4 inches from the forward edge and 5 3/4 inches from the rear edge of the plywood.

Figure 6-1. Two-round A-7A door bundle prepared (continued)

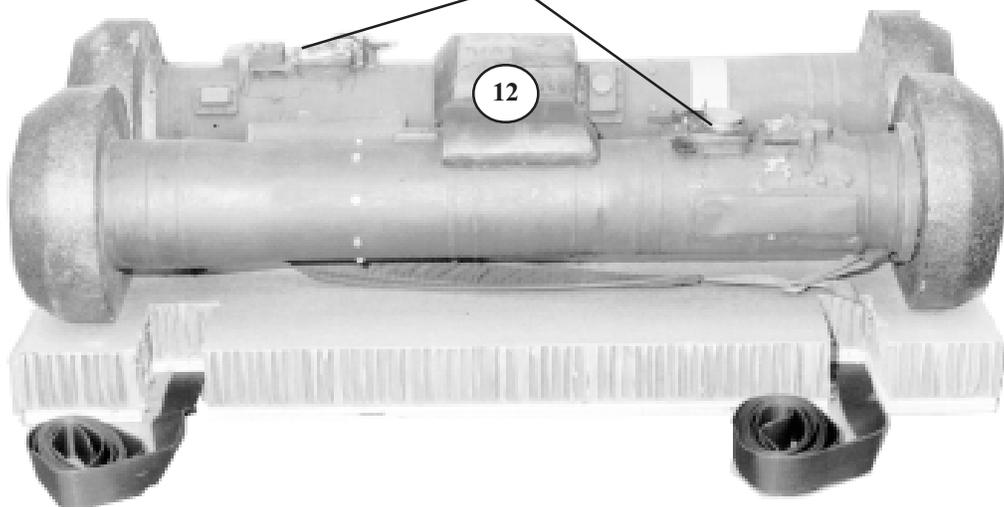


- 9 Position and glue one of the 17 1/2-inch by 30 1/4-inch pieces of honeycomb centered on the plywood in step 8.
- 10 Position two A-7A straps, one in each set of cutouts on the 24 1/4-inch by 47-inch piece of plywood.

Figure 6-1. Two-round A-7A door bundle prepared (continued)

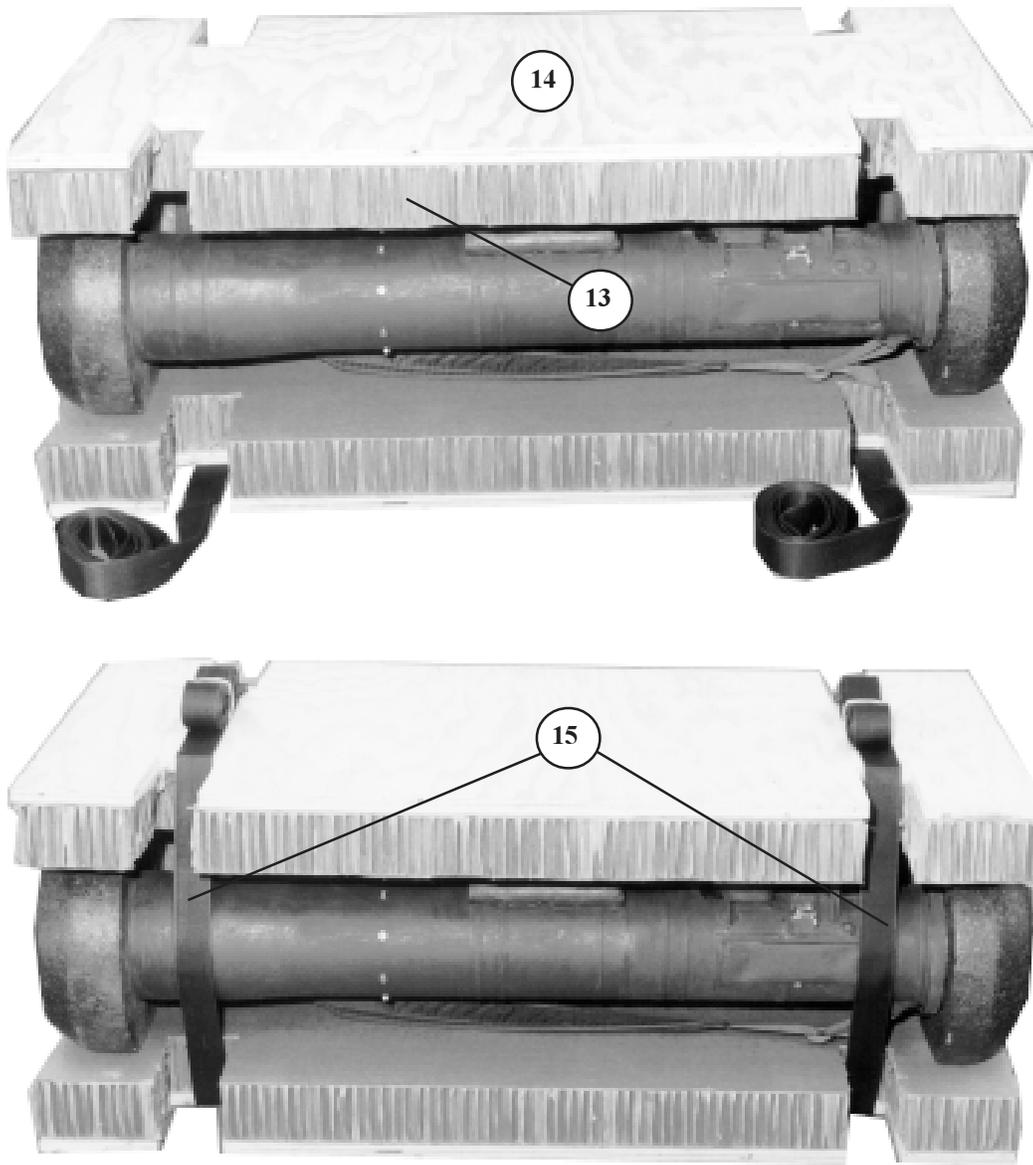


**COMMAND
LAUNCH
UNIT CONNECTORS**



- 11 Position and glue one of the matching pieces of honeycomb on the top of the plywood in step 10.
- 12 With the Command Launch Unit connectors on opposite ends, position two Javelin rounds on the honeycomb. Lay the rounds with the flat side of the protective foam down making sure the Battery Coolant Units (BCU) face inward.

Figure 6-1. Two-round A-7A door bundle prepared (continued)



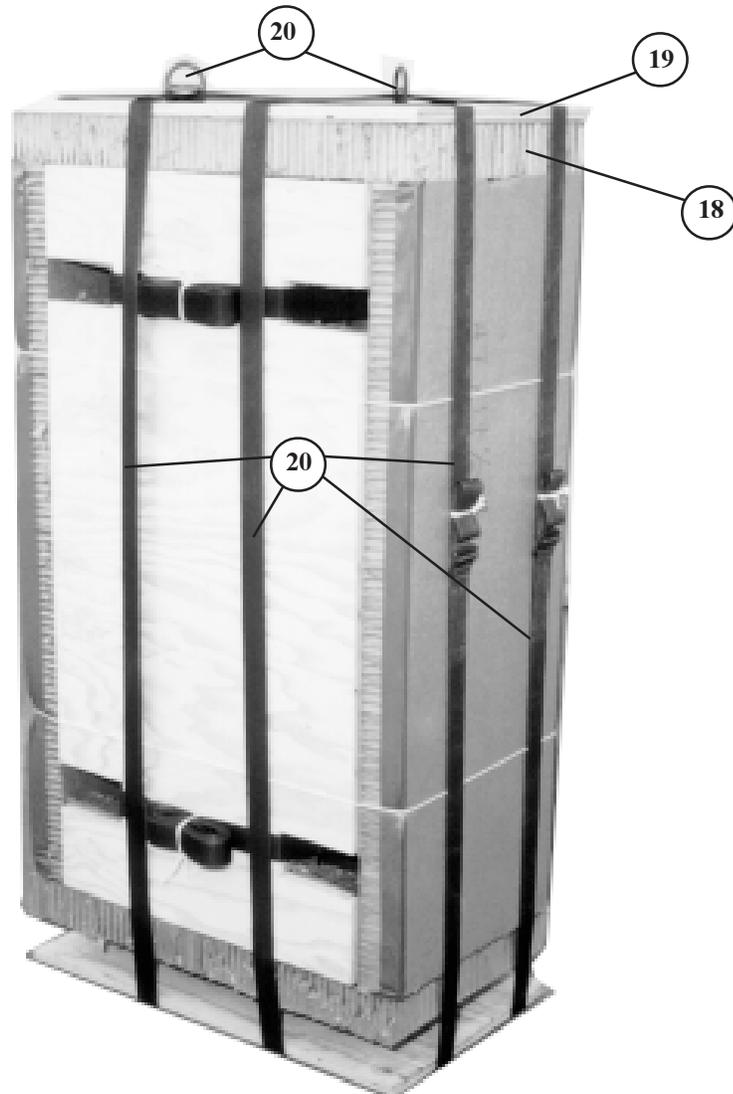
- 13 Position the other piece of 24 1/4 inch by 47 inch honeycomb with the cutouts evenly on top of the launch tubes.
- 14 Position and glue the matching piece of plywood on top of the honeycomb.
- 15 Secure the A-7A straps.

Figure 6-1. Two-round A-7A door bundle prepared (continued)



- 16 Using the materials from steps 7 through 9 as a base, position the materials from steps 10 through 15 on one end centered on the base.
- 17 Position one of the 17 1/2-inch by 47-inch pieces of honeycomb flush with the front of the load and one flush with the rear of the load. Tape the edges of the honeycomb and secure it in place with two lengths of type III nylon cord.

Figure 6-1. Two round A-7A door bundle prepared (continued)

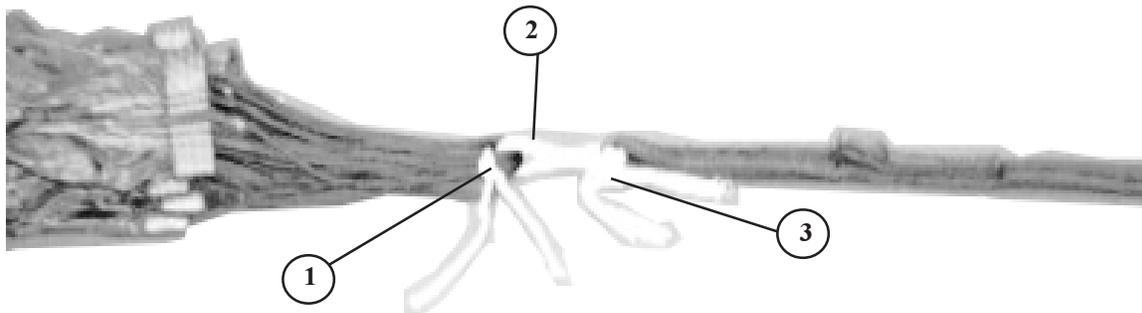


- ⑱ Position one 17 1/2-inch by 30 1/4-inch piece of honeycomb on top of the load.
- ⑲ Position and glue one 17 1/2-inch by 30 1/4-inch piece of plywood on the honeycomb.
- ⑳ Position two D-rings on top of the load. Place one in the left front corner and the other in the right rear corner of the load. Secure in place by passing the running ends of two of the A-7A straps in those corners through the D-rings. Secure all the A-7A straps.

Figure 6-1. Two-round A-7A door bundle prepared (continued)

6-3. Modifying a 24-Foot Troop Chest Reserve Parachute for Cargo Use

Modify a 24-foot troop chest reserve parachute as shown in Figure 6-2.



- ① Remove the pilot parachute and bridle assembly from the apex of the main parachute. Form group separation of the apex lines. Maintain separation with a tie of type III nylon cord with the core threads removed. Tie the cord around the apex lines with a surgeon's knot and locking knot, with overhand knots in the running ends. Trim the running ends to 2 inches.
- ② Position the static line breakcord attaching loop at a point above and adjacent to the center of the apex lines. Pass one end of a double length of type I, 1/4-inch cotton webbing around the apex lines, and center the cord length. Pass each end of the doubled length of webbing through the static line breakcord attaching loop from opposite directions.
- ③ Secure the webbing ends together on top of the breakcord attaching loop with a surgeon's knot and locking knot. Leave a 3-inch loop between the apex lines and the static line breakcord ties.

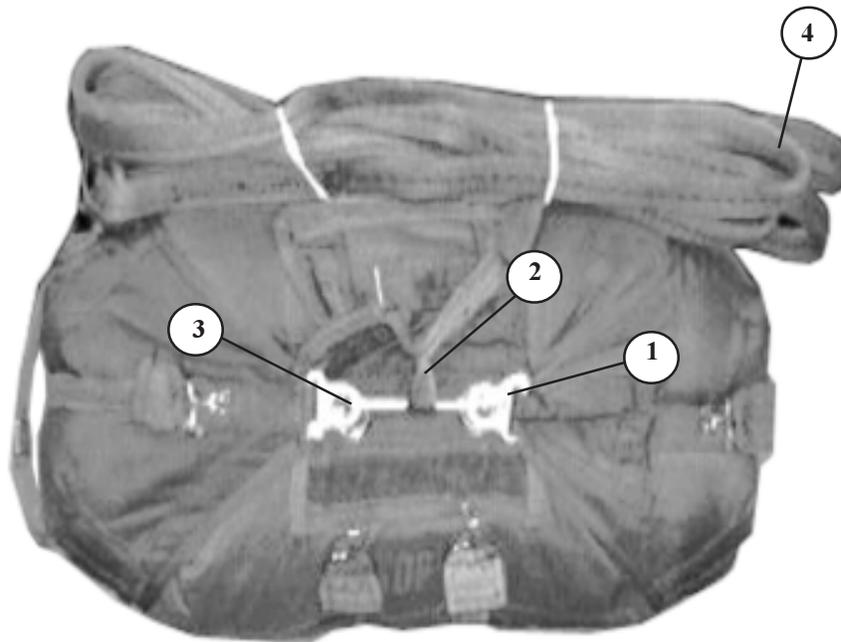
Figure 6-2. Apex line separation and static line breakcord tied

6-4. Closing the Pack Tray and Stowing the Static Line

Pack the parachute according to TM 10-1670-269-23&P. Close the pack tray and stow the static line as shown in Figure 6-3.

CAUTION

Place the apex on top of the last accordion fold. Route the static line to the right inside of the pack tray.



- ① Tie an overhand knot in one end of a 12 inch length of type I, 1/4-inch cotton webbing and run the webbing through one cone (from outside to inside).
- ② Pass the webbing through the pack opening loop of the G-14 static line.
- ③ Run the webbing through the other cone (inside to outside), pull the webbing snug, and tie an overhand knot in the running end.
- ④ Stow the static line on one side in S-folds. Secure to the elastic bands on the bag with retainer bands.

CAUTION

If the load is to be followed by parachutists, attach a drogue to the breakcord attaching loop of the static line, following procedures in TM 10-1670-282-23&P.

Figure 6-3. Pack tray closed and static line stowed

6-5. Attaching Parachute to Load

Attach a 24-foot troop chest reserve parachute as shown in Figure 6-4.

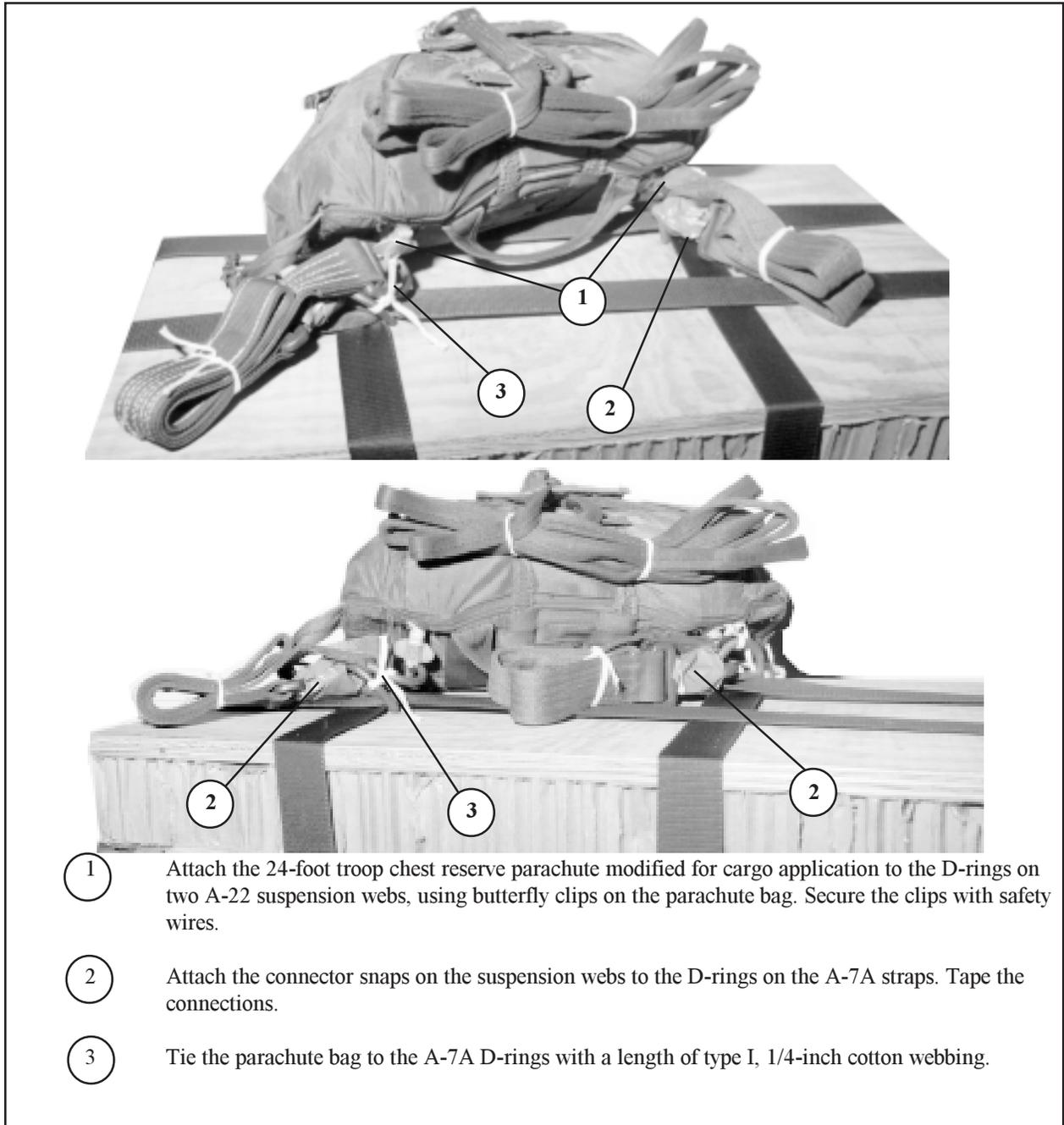


Figure 6-4. Parachute attached to load

6-6. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-5. Complete Shipper's Declaration for Dangerous Goods and affix to load.

6-7. Equipment Required

Use the equipment listed in Table 6-1 to rig this load.

CAUTION
Mark the load "Door Bundle Only, Do Not Drop From AFT Ramp"

**RIGGED LOAD DATA**

Rigged Weight	146 pounds
Height	65 1/2 inches
Width	17 1/2 inches
Length	30 1/4 inches
Parachute	24-foot diameter troop chest reserve modified for cargo

Figure 6-5. Javelin two-round A-7A door bundle rigged

Table 6-1. Equipment required for rigging the Javelin two-round A-7A door bundle for a low-velocity airdrop

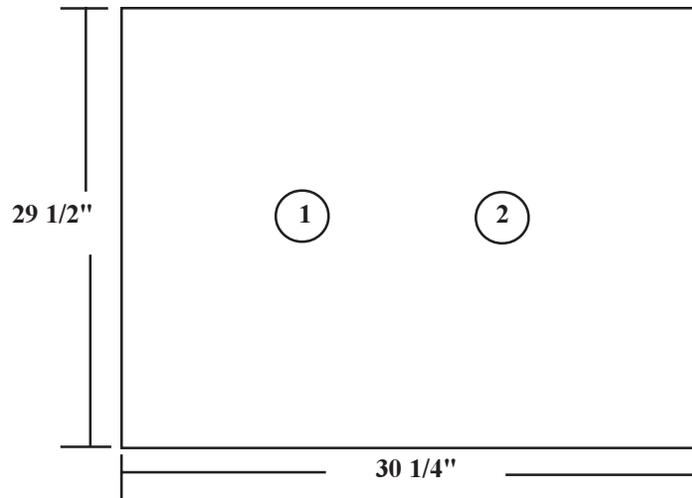
National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	3 sheets
1670-00-892-4218	Parachute: 24-foot Diameter, Troop, Chest, Reserve	1
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	2 sheets
1670-00-251-1153	Sling assembly, cargo, airdrop, A-7A	6
8305-00-2168-2411	Webbing, cotton, 1/4-in, 80-lb	As required

Section II**RIGGING FOUR-ROUND A-7A DOOR BUNDLE****6-8. Description of Load**

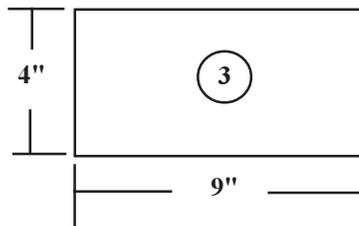
The Javelin Missile System is a man-portable antitank weapon system made up of a tactical round in a disposable launch tube and a reusable Command Launch Unit. The Command Launch Unit is not rigged with the tactical rounds. The Javelin four-round A-7A door bundle has an approximate rigged weight of 271 pounds. It has a height of 57 1/2 inches, a width of 37 1/2 inches and a length of 44 1/2 inches. The four-round bundle uses the G-14 cargo parachute.

6-9. Preparing Four-Round A-7A Door Bundle

Prepare the four-round A-7A door bundle according to FM 10-500-3/TO 13C7-1-11 and as shown in Figure 6-6.

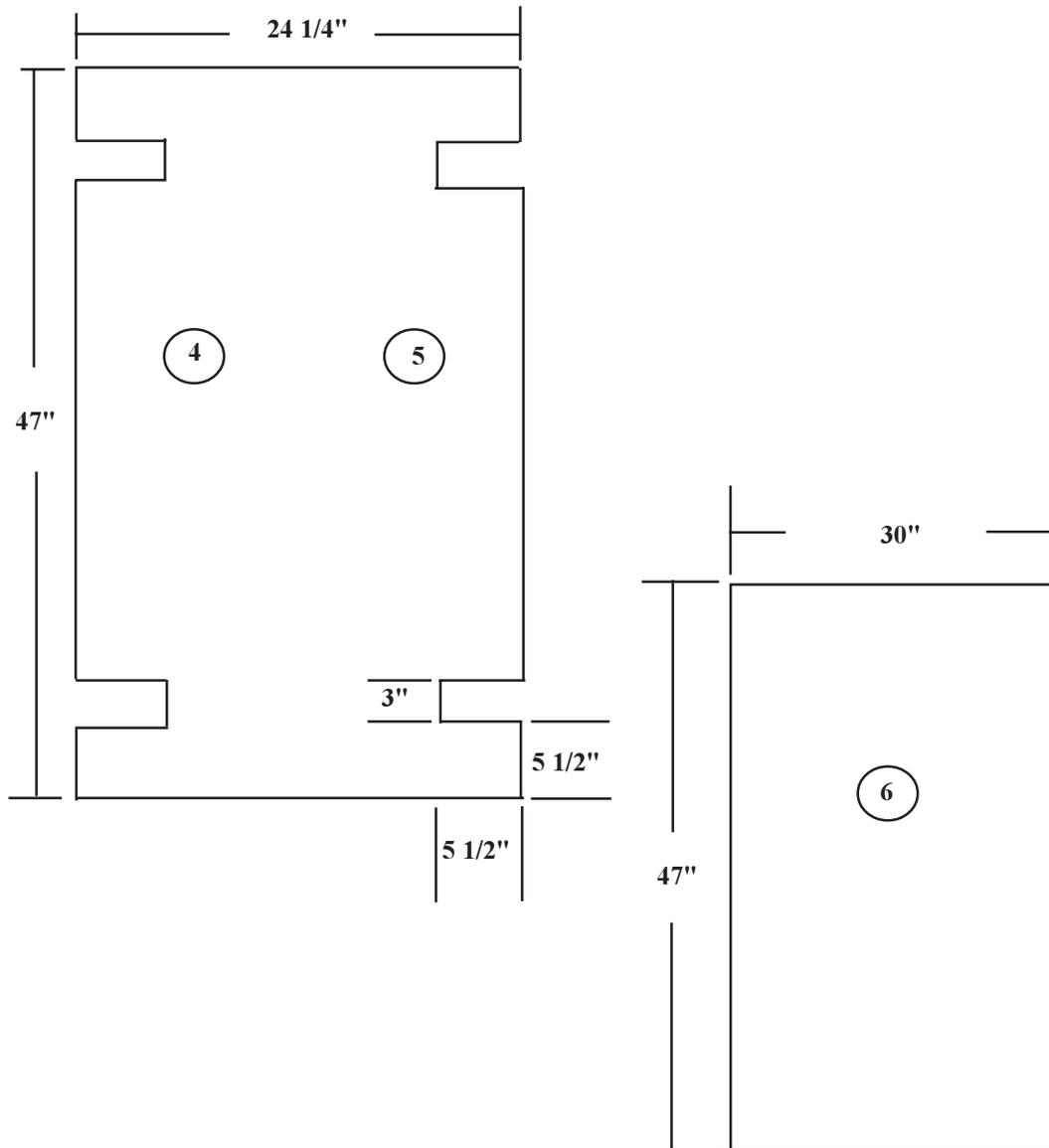


- ① Cut two 29 1/2-inch by 30 1/4-inch pieces of plywood.
- ② Cut two 29 1/2-inch by 30 1/4-inch pieces of honeycomb.



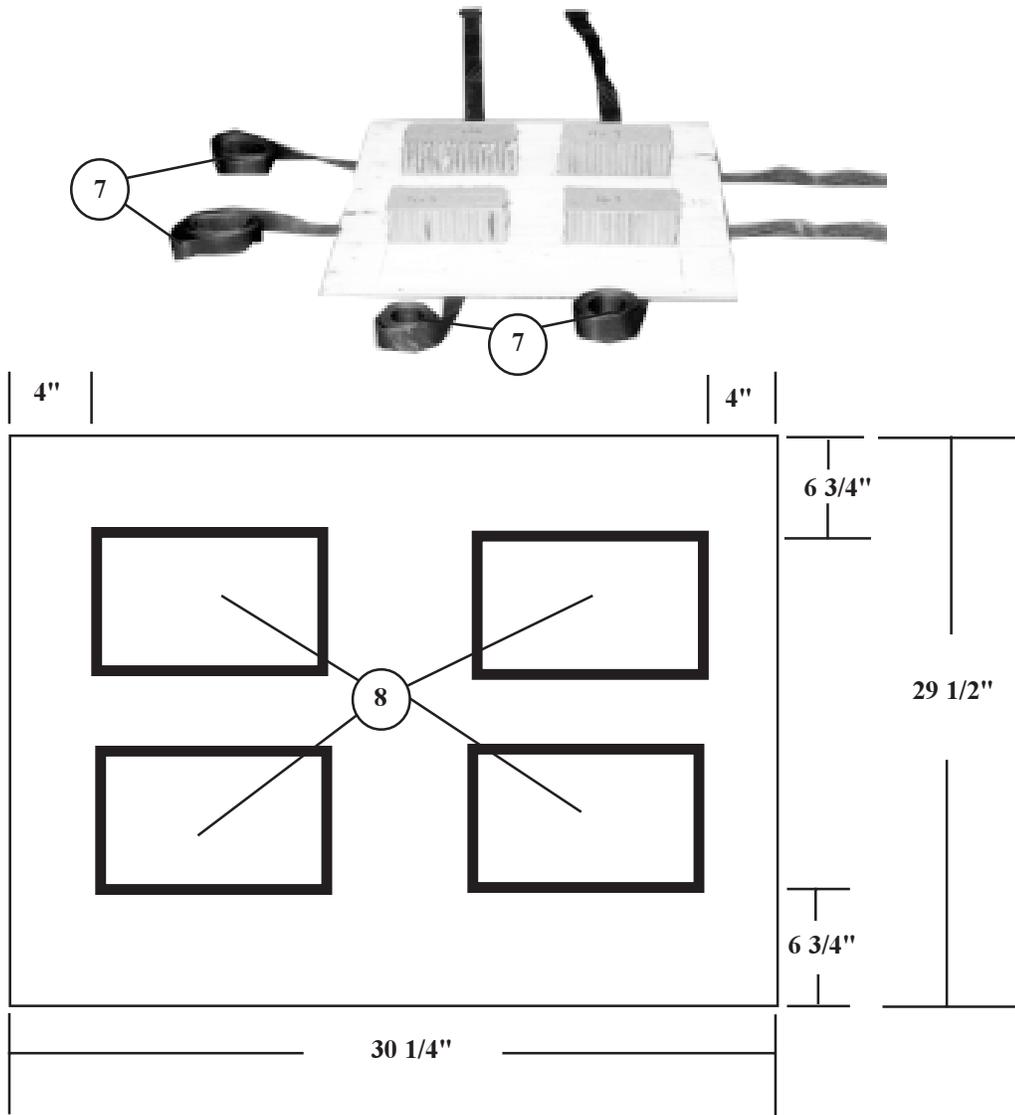
- ③ Cut four 4-inch by 9-inch pieces of honeycomb.

Figure 6-6. Four-round A-7A door bundle prepared



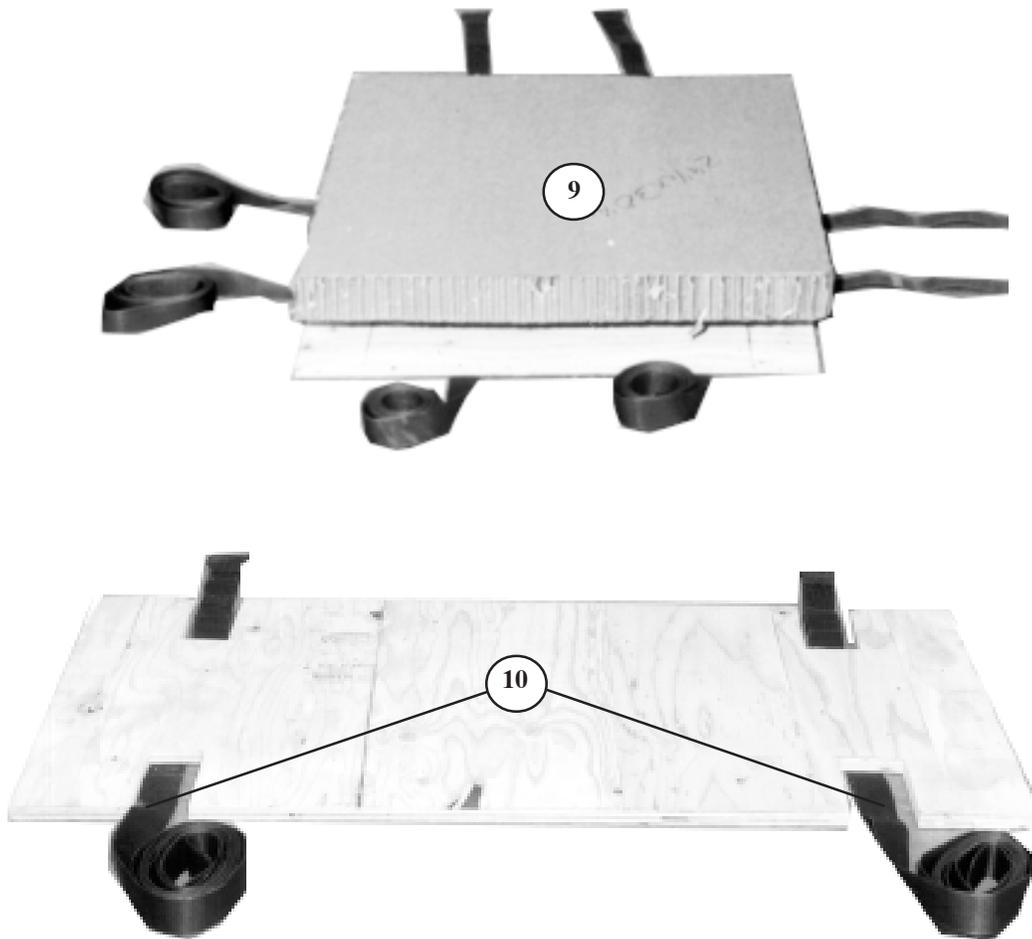
- ④ Cut three 24 1/4-inch by 47-inch pieces of 3/4-inch plywood with four 3-inch by 5 1/2-inch cutouts.
- ⑤ Cut two pieces of honeycomb to match step 4.
- ⑥ Cut two 30-inch by 47-inch pieces of honeycomb.

Figure 6-6. Four-round A-7A door bundle prepared (continued)



- 7 Position four A-7A straps under one of the 29 1/2-inch by 30 1/4-inch pieces of plywood. Position each strap approximately 6 inches from each edge of the plywood.
- 8 Position and glue the four 4-inch by 9-inch pieces of honeycomb on top of the plywood. The pieces on the left side should be 6 3/4 inches from the left edge of the plywood and the right side pieces should be 6 3/4 inches from the right edge of the plywood. The forward pieces should be 4 inches from the forward edge of the platform and the rear pieces should be 4 inches from the rear edge of the plywood.

Figure 6-6. Four-round A-7A door bundle prepared (continued)



- 9 Position and glue one of the 29 1/2-inch by 30 1/4-inch pieces of honeycomb centered on the plywood in step 8.
- 10 Position two A-7A straps, one in each set of cutouts on the 24 1/4-inch by 47-inch piece of plywood.

Figure 6-6. Four-round A-7A door bundle prepared (continued)

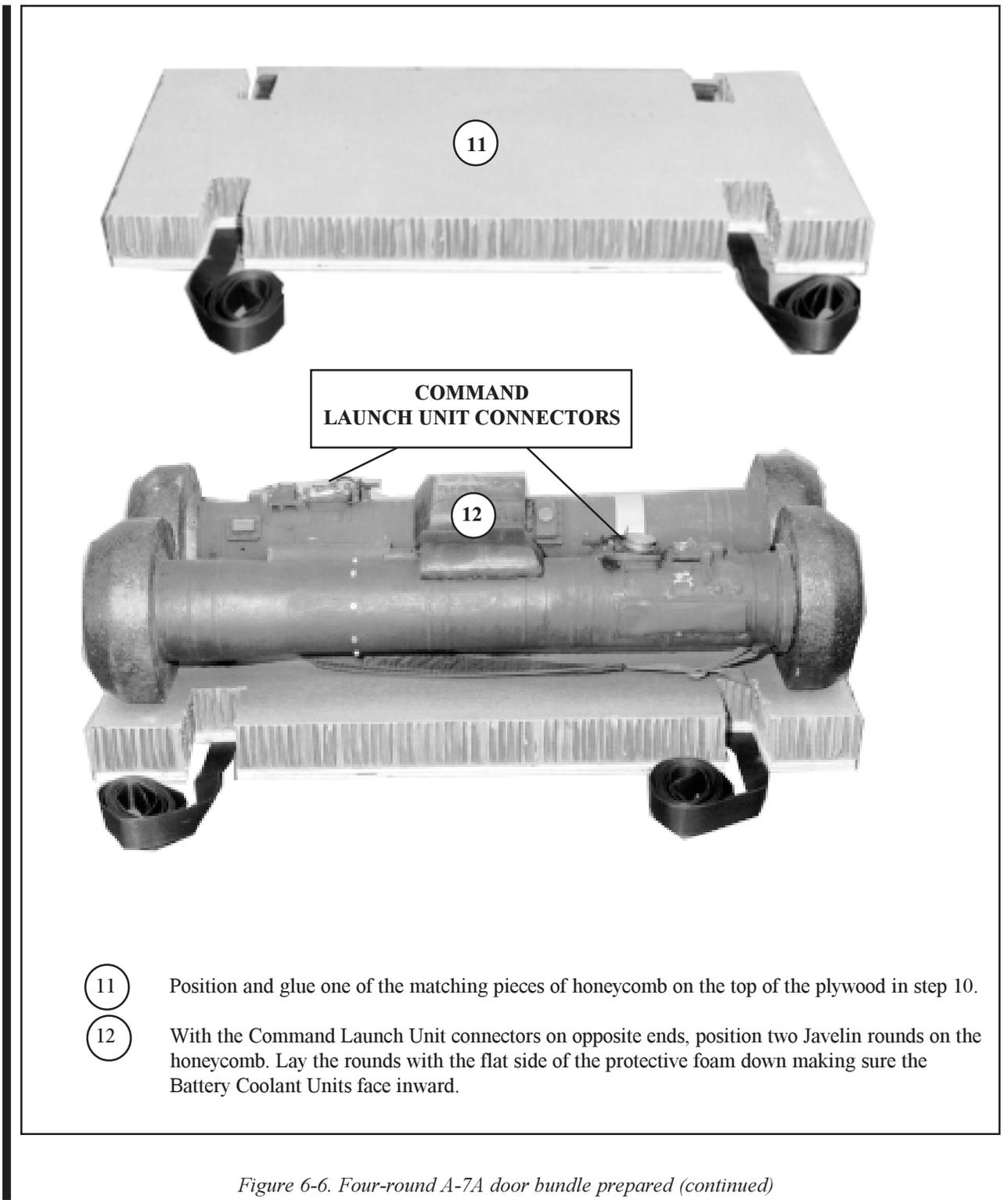
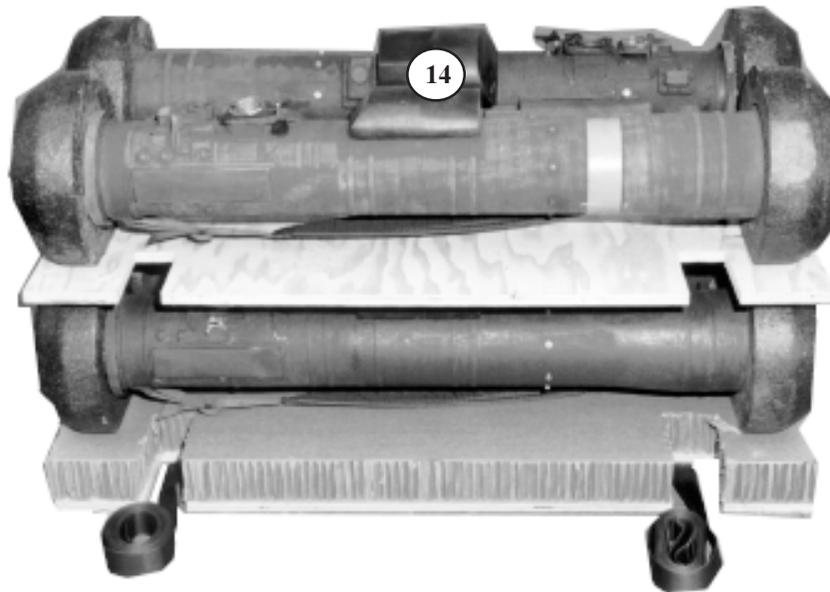
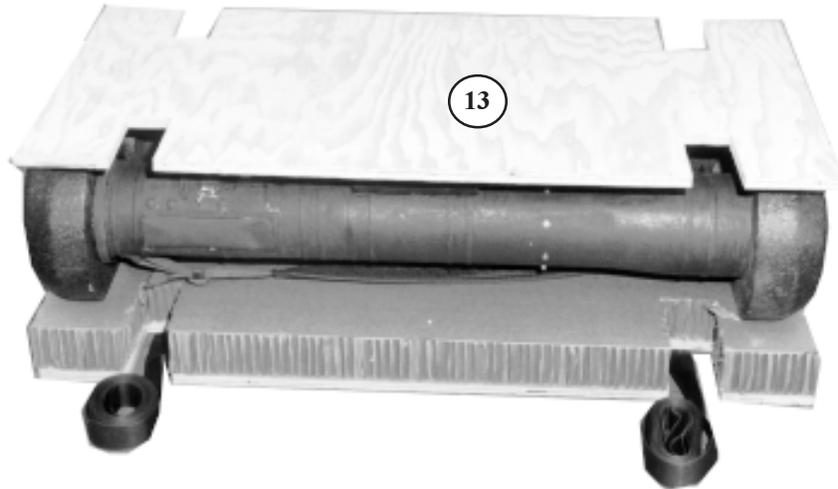
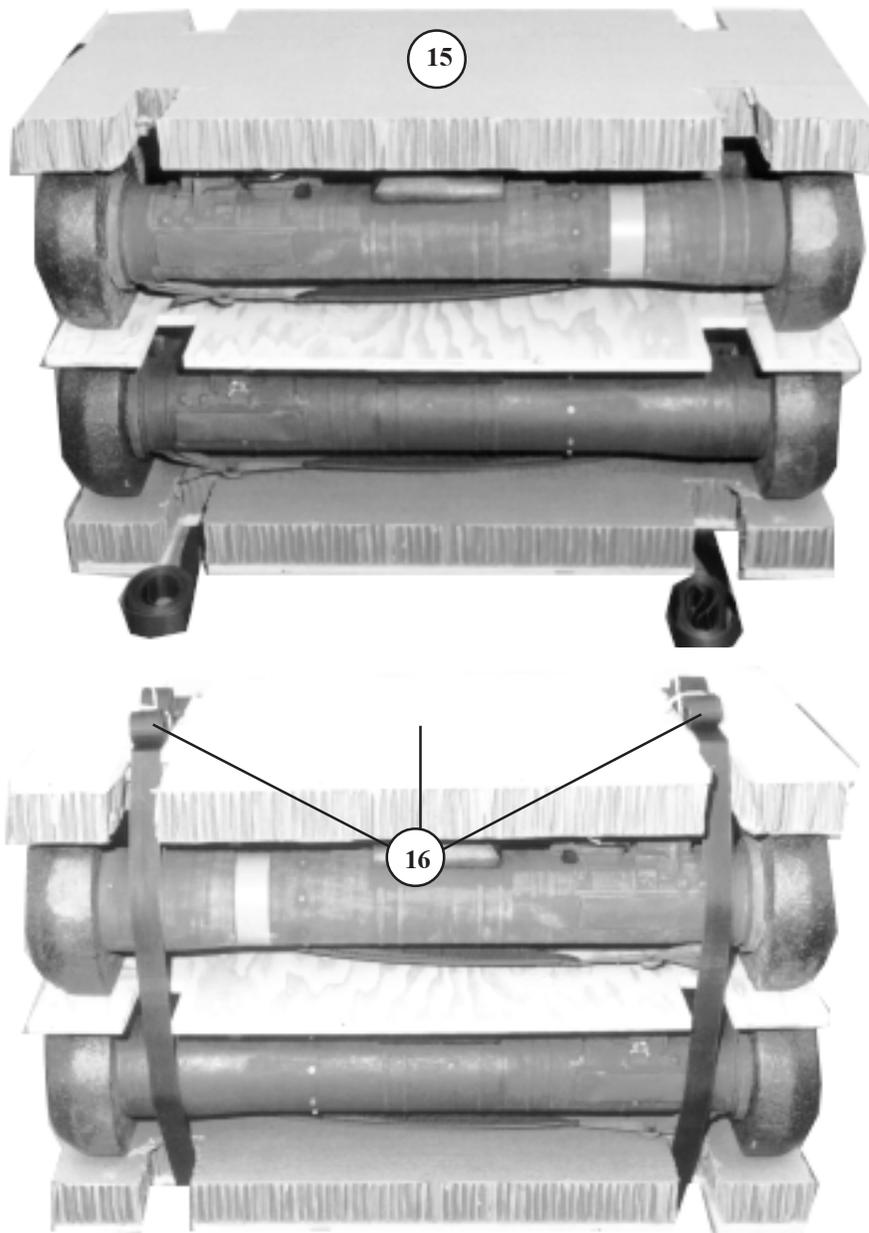


Figure 6-6. Four-round A-7A door bundle prepared (continued)



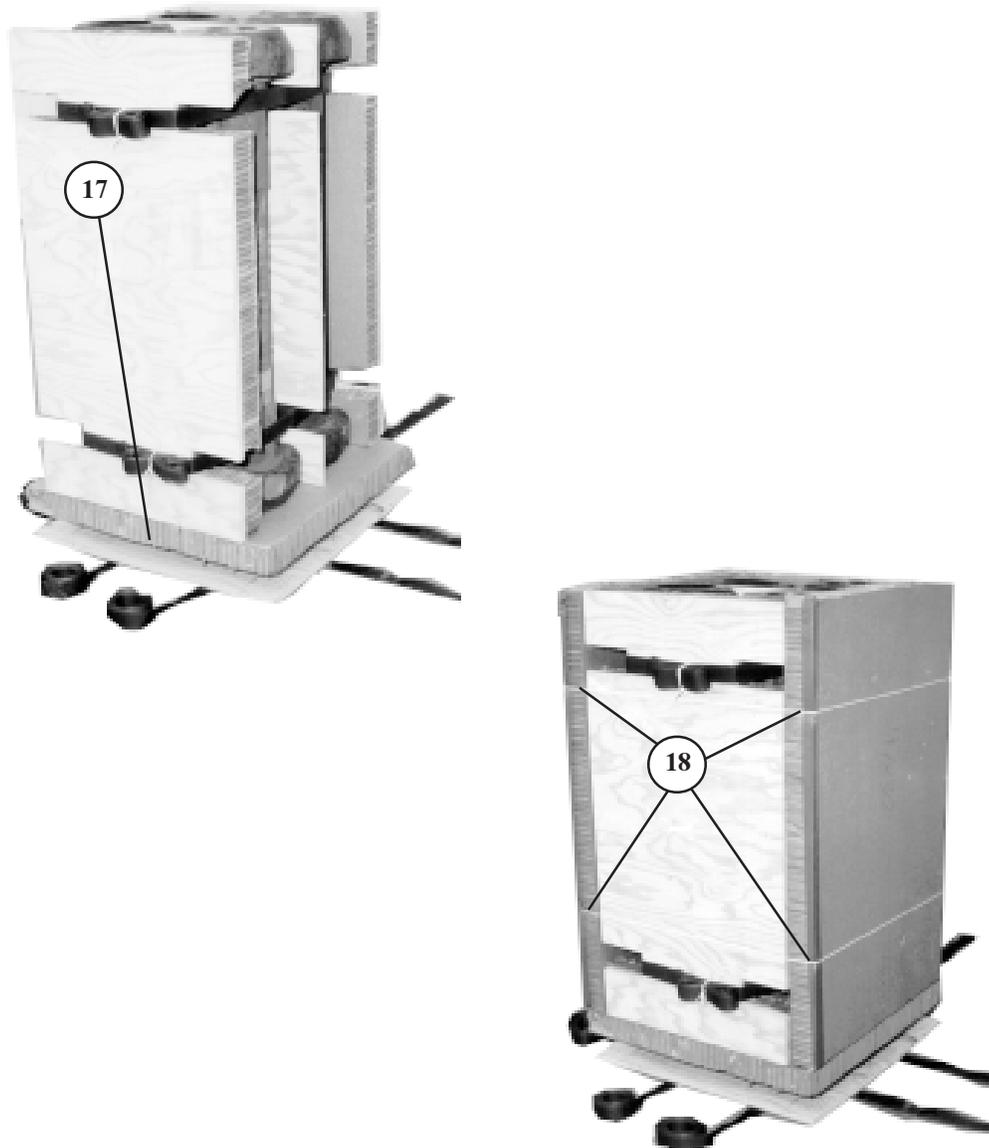
- ⑬ Position the other piece of 24 1/4-inch by 47-inch plywood with the cutouts evenly on top of the launch tubes.
- ⑭ Position two more rounds on top of the plywood as outlined in step 12.

Figure 6-6. Four-round A-7A door bundle prepared (continued)



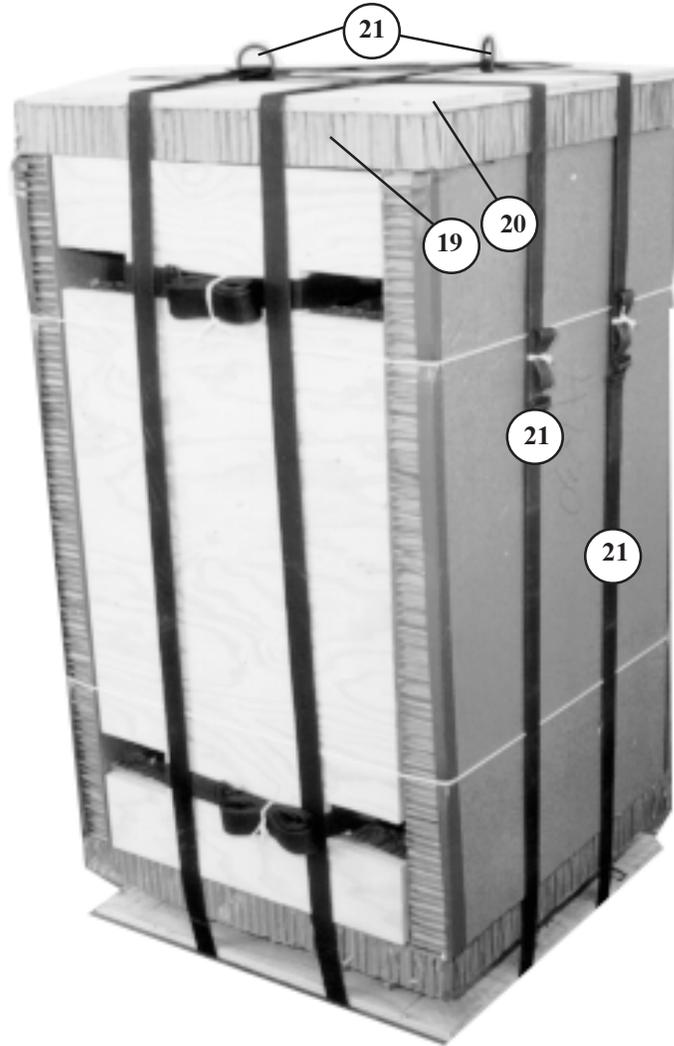
- 15 Position a piece of 24 1/4-inch by 47-inch honeycomb with the cutouts evenly on top of the launch top.
- 16 Position and glue the matching piece of plywood on top of the honeycomb. Secure the A-7A straps.

Figure 6-6. Four-round A-7A door bundle prepared (continued)



- 17 Using the materials from steps 7 through 9 as a base, position the materials from steps 10 through 16 on one end centered on the base.
- 18 Position one of the 30-inch by 47-inch pieces of honeycomb flush with the front of the load and one flush with the rear of the load. Tape the edges of the honeycomb and secure it in place with two lengths of type III nylon cord.

Figure 6-6. Four-round A-7A door bundle prepared (continued)

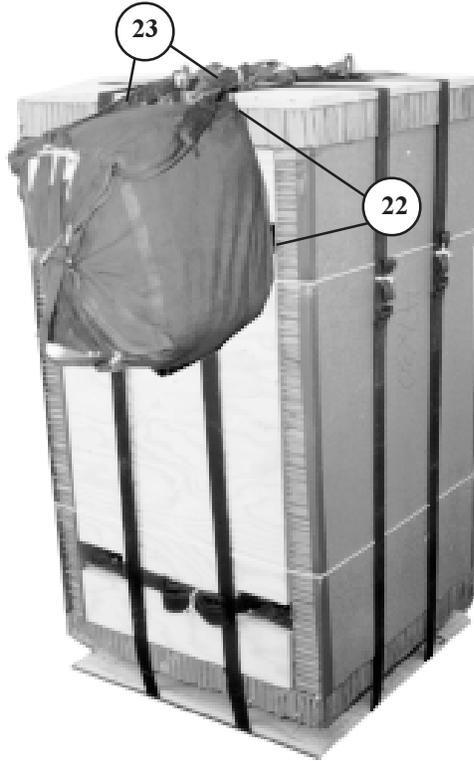


- ① 19 Position one 29 1/2-inch by 30 1/4-inch piece of honeycomb on top of the load.
- ① 20 Position and glue one 29 1/2-inch by 30 1/4-inch piece of plywood on the honeycomb.
- ① 21 Position two D-rings on top of the load. Place one in the left front corner and the other in the right rear corner of the load. Secure in place by passing the running ends of two of the A-7A straps in those corners through the D-rings. Secure all the A-7A straps.

Figure 6-6. Four-round A-7A door bundle prepared (continued)

6-10. Attaching Parachute to Load

Attach a G-14 cargo parachute as shown in Figure 6-7.



- 22 Attach a G-14 cargo parachute to a plywood side of the container with the tie tapes on the deployment bag. This will be the rear side of the load. Tie the upper tie tapes to the A-7A straps even with the edge of the vertical piece of honeycomb. Tie the lower tie tapes to the same A-7A straps directly under the bag attachment points.
- 23 Attach each riser clevis of the parachute to a D-ring on an A-22 suspension web. Attach the clips on the suspension webs to the D-rings on the A-7A straps, and tape the clips.

Figure 6-7. Parachute attached to load

6-11. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-8. Complete Shipper's Declaration for Dangerous Goods and affix to load.

6-12. Equipment Required

Use the equipment listed in Table 6-2 to rig the load.

CAUTION
 Mark the load "Door Bundle Only, Do Not Drop From AFT Ramp"



RIGGED LOAD DATA

Rigged Weight	271 pounds
Height	57 1/2 inches
Width	37 1/2 inches
Length	44 1/2 inches
Parachute	G-14 cargo parachute

Figure 6-8. Javelin four-round A-7A door bundle rigged

Table 6-2. Equipment required for rigging the Javelin four-round A-7A door bundle for a low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	3 sheets
1670-00-999-2658	Parachute, G-14, cargo	1
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	2 sheets
1670-00-251-1153	Sling assembly, cargo, airdrop, A-7A	6

Section III

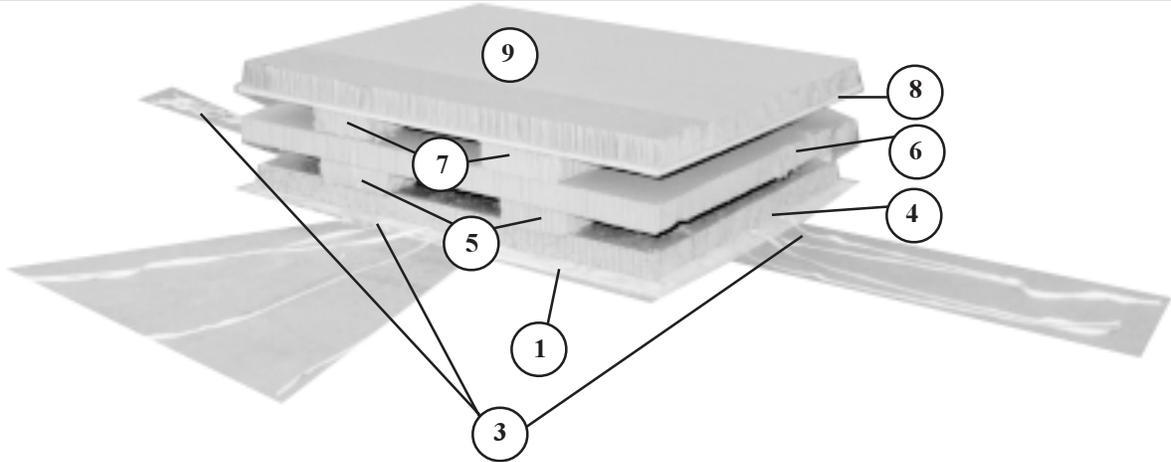
RIGGING NINE-ROUND CDS RIGGED IN AN A-22 STRETCH CONTAINER

6-13. Description of Load

The Javelin Missile System is a man-portable antitank weapon system made up of a tactical round in a disposable launch tube and a reusable command launch unit. The command launch unit is not rigged with the launch tubes. The Javelin nine-round Javelin missile system rigged in an A-22 stretch container has an approximate rigged weight of 810 pounds. It has a height of 65 1/2 inches, a width of 48 inches and a length of 60 inches. The nine round Javelin missile system rigged in an A-22 stretch container uses the G-12E cargo parachute.

6-14. Preparing Skid Board, Ties and Positioning Honeycomb

Prepare the skid board, ties and position the honeycomb according to FM 10-500-3/TO 13C7-1-11 and as shown in Figure 6-9.



- 1 Place a 3/4-inch or 1-inch by 48-inch by 60-inch sheet of plywood on a flat surface.
- 2 Drill sixteen 1/2 inch holes according to FM 10-500-3/TO 13C7-1-11.
- 3 Cut eight, 8-foot lengths of 1/2-inch tubular nylon webbing and route one length through a set of holes according to FM 10-500-3/TO 13C7-1-11.
- 4 Cut a 44-inch by 56-inch piece of honeycomb and center it on the plywood.
- 5 Cut two 5-inch by 56-inch pieces of honeycomb and place each piece on top of the honeycomb 12 inches from each edge.
- 6 Cut a 44-inch by 56-inch piece of honeycomb and place it on top of the two previous pieces centered.
- 7 Repeat step 5.
- 8 Cut a 3/4-inch by 44-inch by 56-inch piece of plywood and place it on top of the two previous pieces centered.
- 9 Repeat step 6 and place the honeycomb on top of the plywood.

Figure 6-9. Skidboard, ties and honeycomb prepared and positioned

6-15. Positioning A-22 Sling Assemblies

Position two A-22 sling assemblies on the load according to FM 10-500-3/TO 13C7-1-11 and as shown in Figure 6-10.

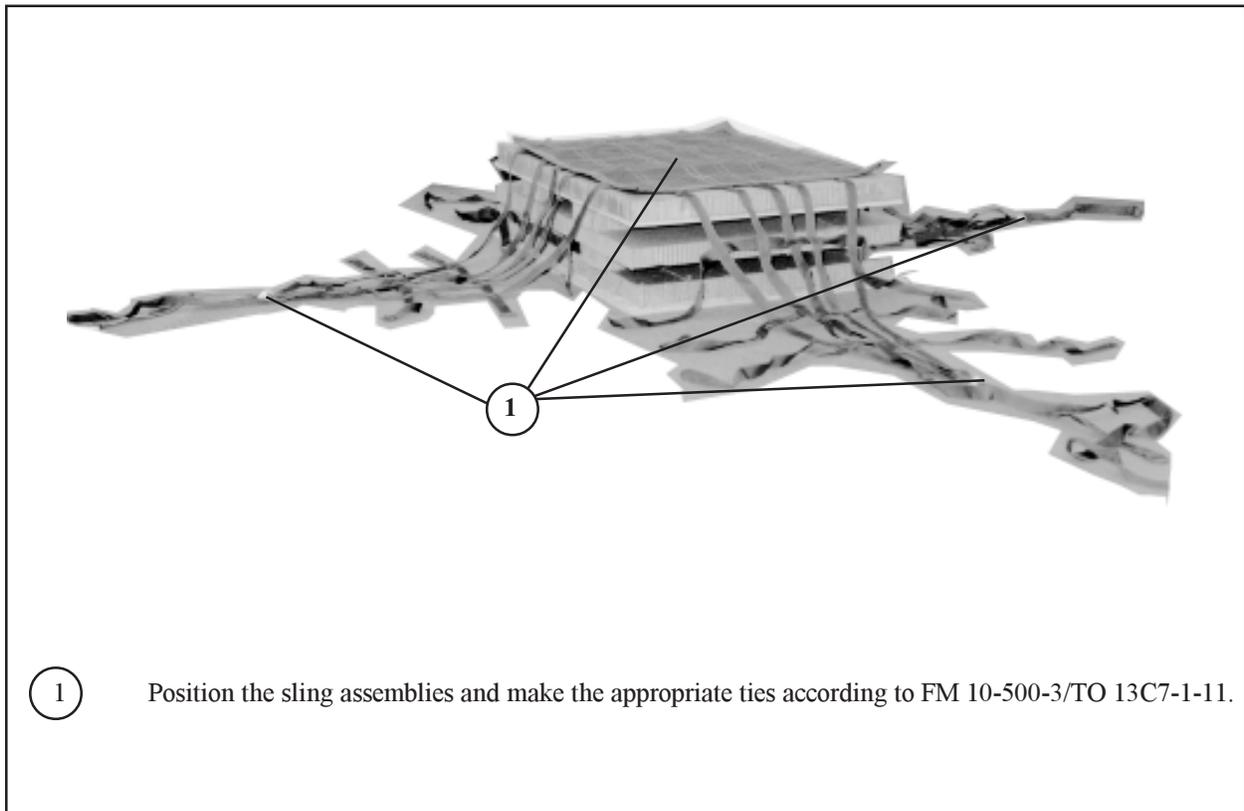


Figure 6-10. A-22 sling assemblies positioned

6-16. Positioning Covers and A-7A Straps

Position two covers and two A-7A straps on top of the sling assemblies as shown in Figure 6-11.

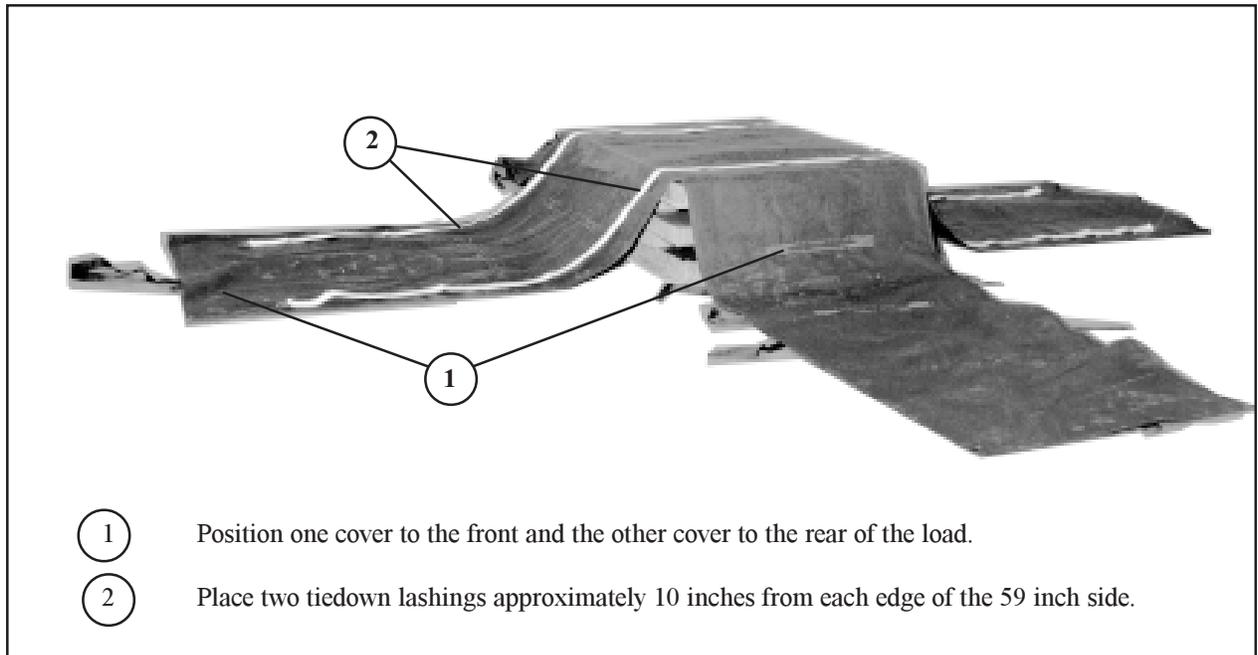


Figure 6-11. Covers and A-7A straps positioned

6-17. Positioning and Securing Javelin Missiles

Position nine Javelin missiles and secure them as shown in Figure 6-12.

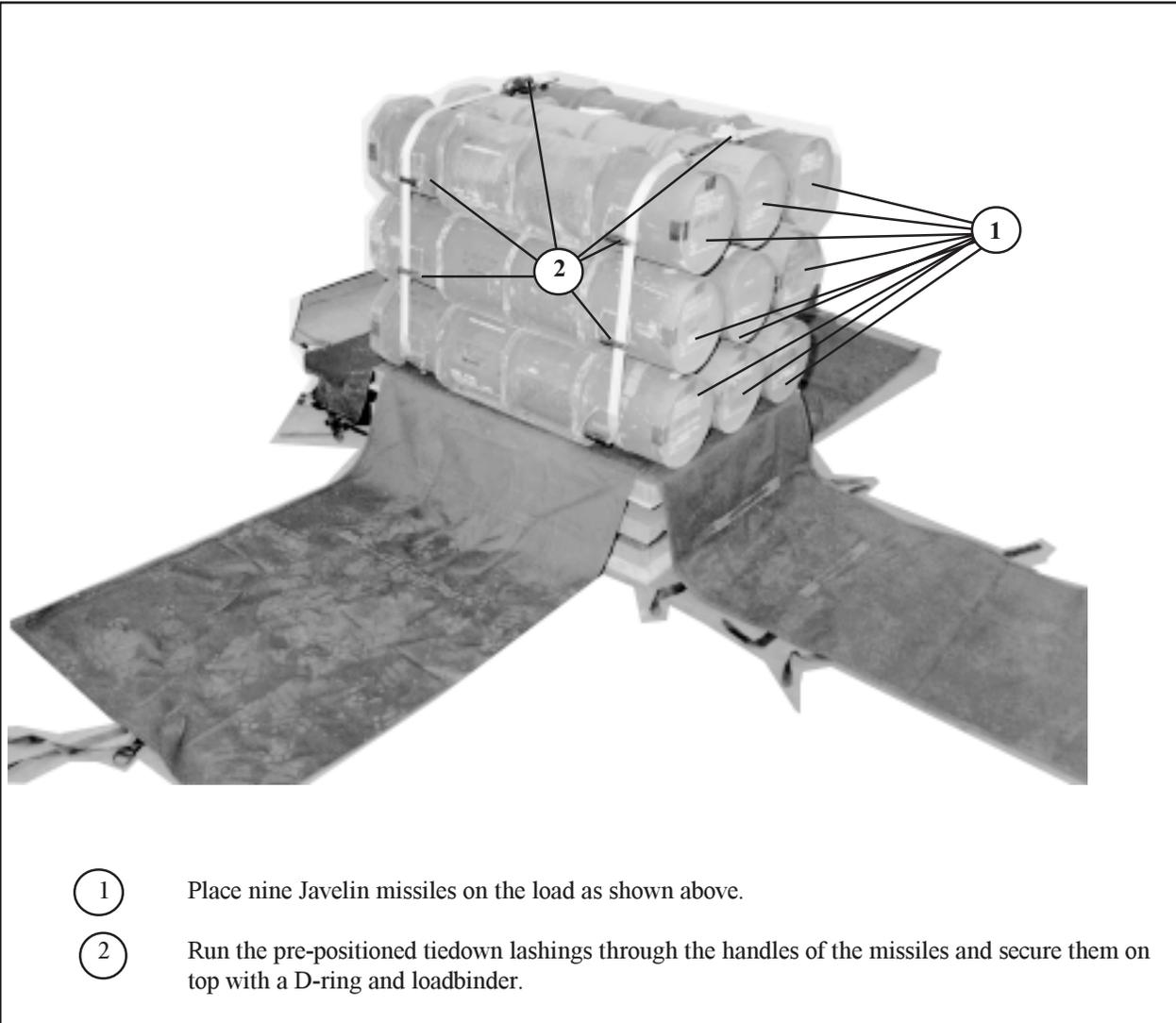


Figure 6-12. Javelin missiles positioned and secured

6-18. Securing the Lateral Straps and Installing Suspension Slings

Secure the lateral straps according to FM 10-500-3/TO 13C7-1-11 and install the suspension slings as shown in Figure 6-13.

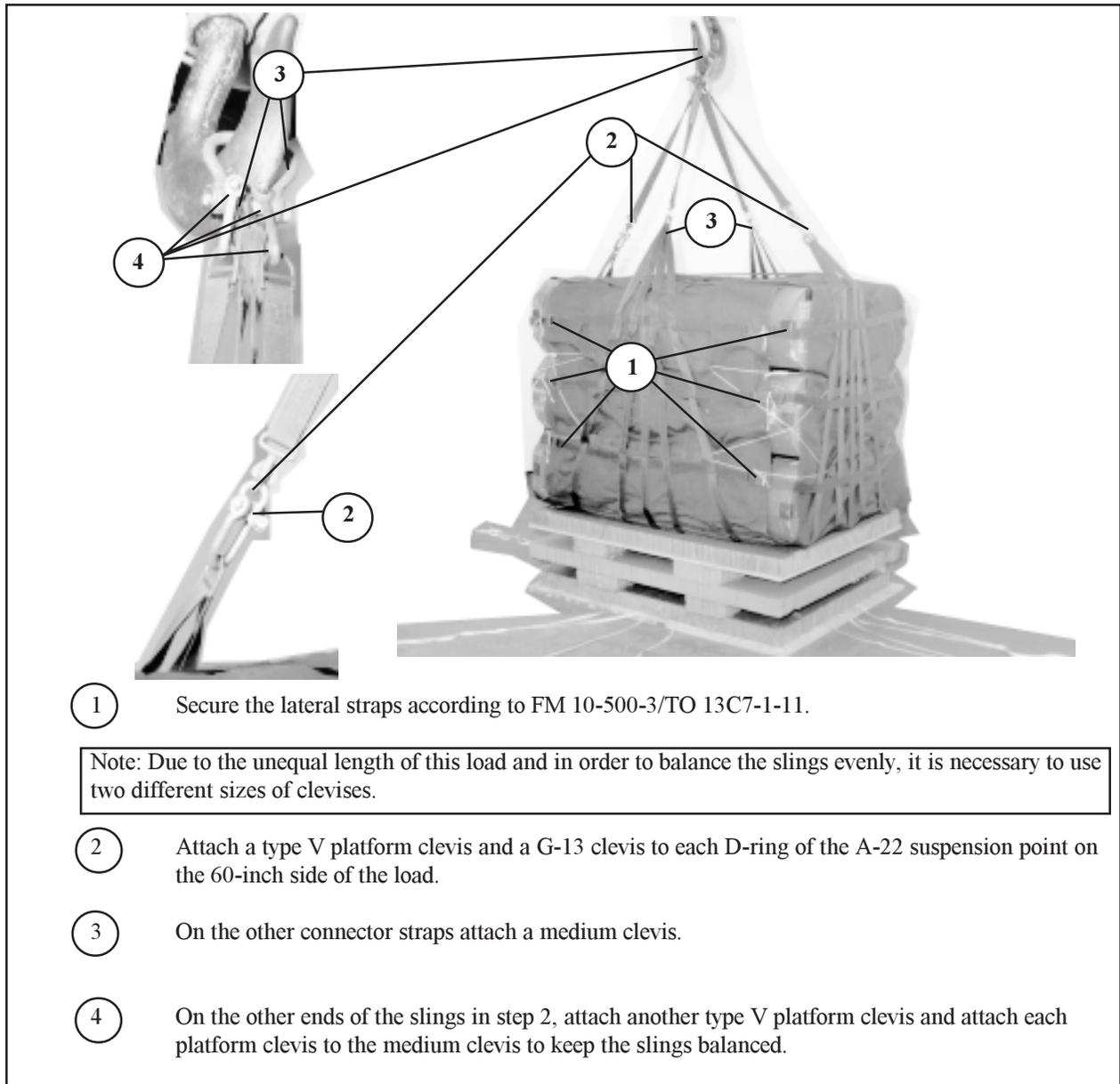


Figure 6-13. Lateral straps secured and suspension slings installed

6-19. Securing Skid Board Ties and Installing Parachute

Secure the skid board ties according to FM 10-500-3/TO 13C7-1-11 and install a G-12E cargo parachute as shown in Figure 6-14.

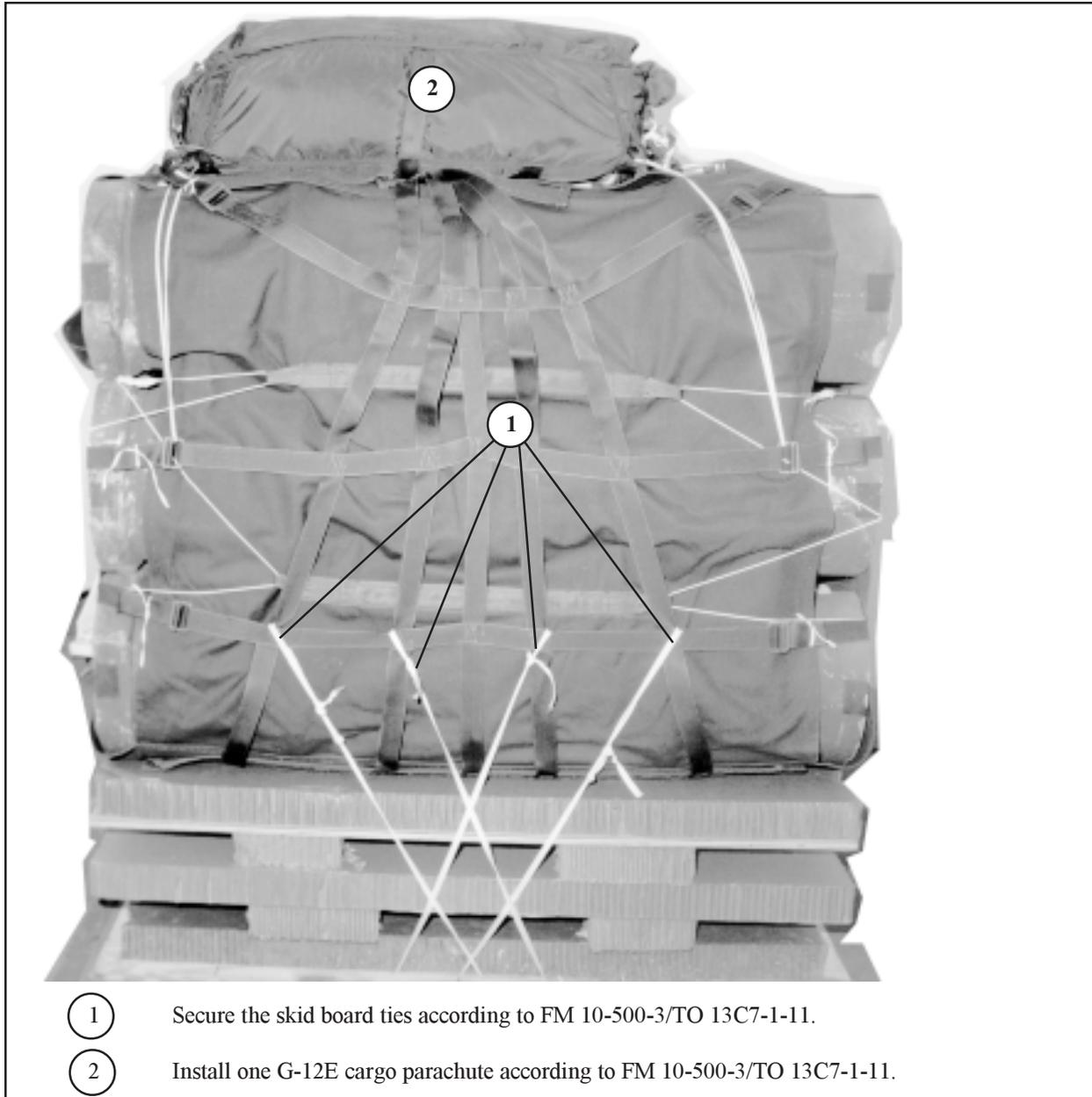


Figure 6-14. Skid board ties secured and parachute installed

6-11. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-15. Complete Shipper's Declaration for Dangerous Goods and affix to load.

6-21. Equipment Required

Use the equipment listed in Table 6-3 to rig the load.

**RIGGED LOAD DATA**

Rigged Weight	810 pounds
Height	65 1/2 inches
Width	48 inches
Length	60 inches
Parachute	G-12E cargo parachute

Figure 6-15. Javelin nine-round CDS in an A-22 stretch container rigged

Table 6-3. Equipment required for rigging the Javelin nine-round CDS in an A-22 stretch container for a low-velocity airdrop

National Stock Number	Item	Quantity
1670-00-587-3421	Bag, cargo, A-22	2
4030-00-678-8562	Clevis, suspension, 3/4-in (medium)	1
1670-01-162-2372	Clevis assembly (type V)	2
1670-00-753-3928	Pad, energy-dissipating, honeycomb	3 sheets
1670-01-065-3755	Parachute, cargo, G-12E	1
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	2 sheets
1670-01-062-6301	Sling, cargo, airdrop, 3-ft (2-loop)	4
7510-00-266-6710	Tape, masking, 2-in	As required
8305-00-268-2411	Webbing: Cotton, 1/4-in, type I	As required
8305-00-082-5752	Tubular, 1/2-in	As required
8305-00-263-3591	Type VIII	As required

CHAPTER 7

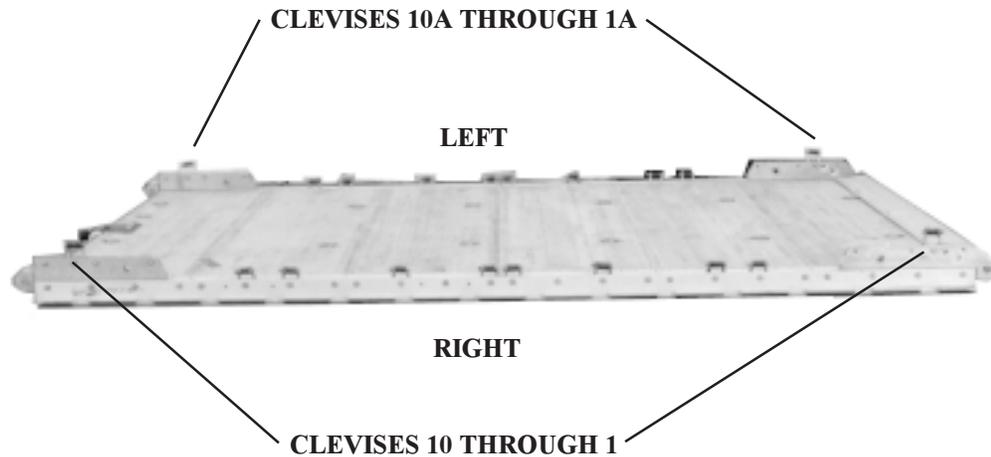
RIGGING THIRTY-SIX JAVELIN ROUNDS AS A MASS SUPPLY LOAD ON A 12-FOOT TYPE V, AIRDROP PLATFORM FOR LOW-VELOCITY AIRDROP

7-1. Description of Load

The Javelin mass supply load consists of 36 Javelin rounds in shipping containers rigged on a 12-foot, Type V platform. Each round in its container weighs approximately 77 pounds each and has a length of 59-inches and diameter of 15 1/4 inches. The load rigged has a total rigged weight of 5,976 pounds, a length of 166 inches with a 5-inch front overhang and a 17-inch rear overhang. The width is 108 inches and the height is 86 inches. The center of balance is 76 inches from the front end of the platform and is rigged using two G-11B cargo parachutes.

7-2. Preparing Platform

Prepare a 12-foot, type V platform as shown in Figure 7-1.



Step:

1. Inspect, or assemble and inspect, a 12-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link to each side rail using holes 1, 2, 3, and 22, 23, and 24.
3. Install a clevis on bushing 2 on the forward tandem links.
4. Install a clevis on bushing 3 on the rear tandem links.
5. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 6, 7, 10, 12, 13, 15, 18, and 19.
6. 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.
7. Label the tie-down rings according to FM 10-500-2/TO 13C7-1-5.

Figure 7-1. Platform prepared

7-3. Building and Positioning Honeycomb Stacks

Build and position the honeycomb stacks as shown in Figure 7-2.

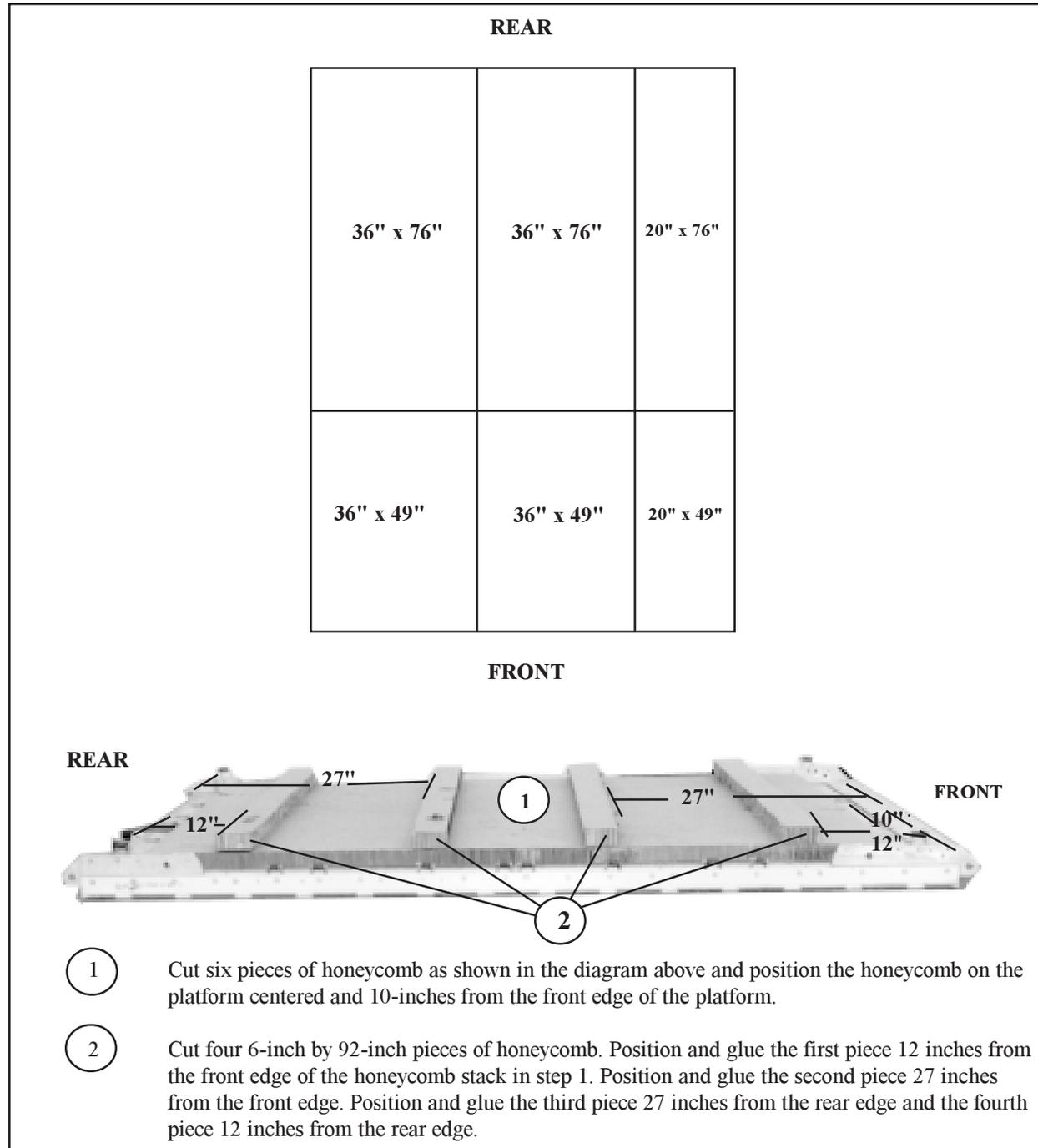


Figure 7-2. Honeycomb stacks built and positioned

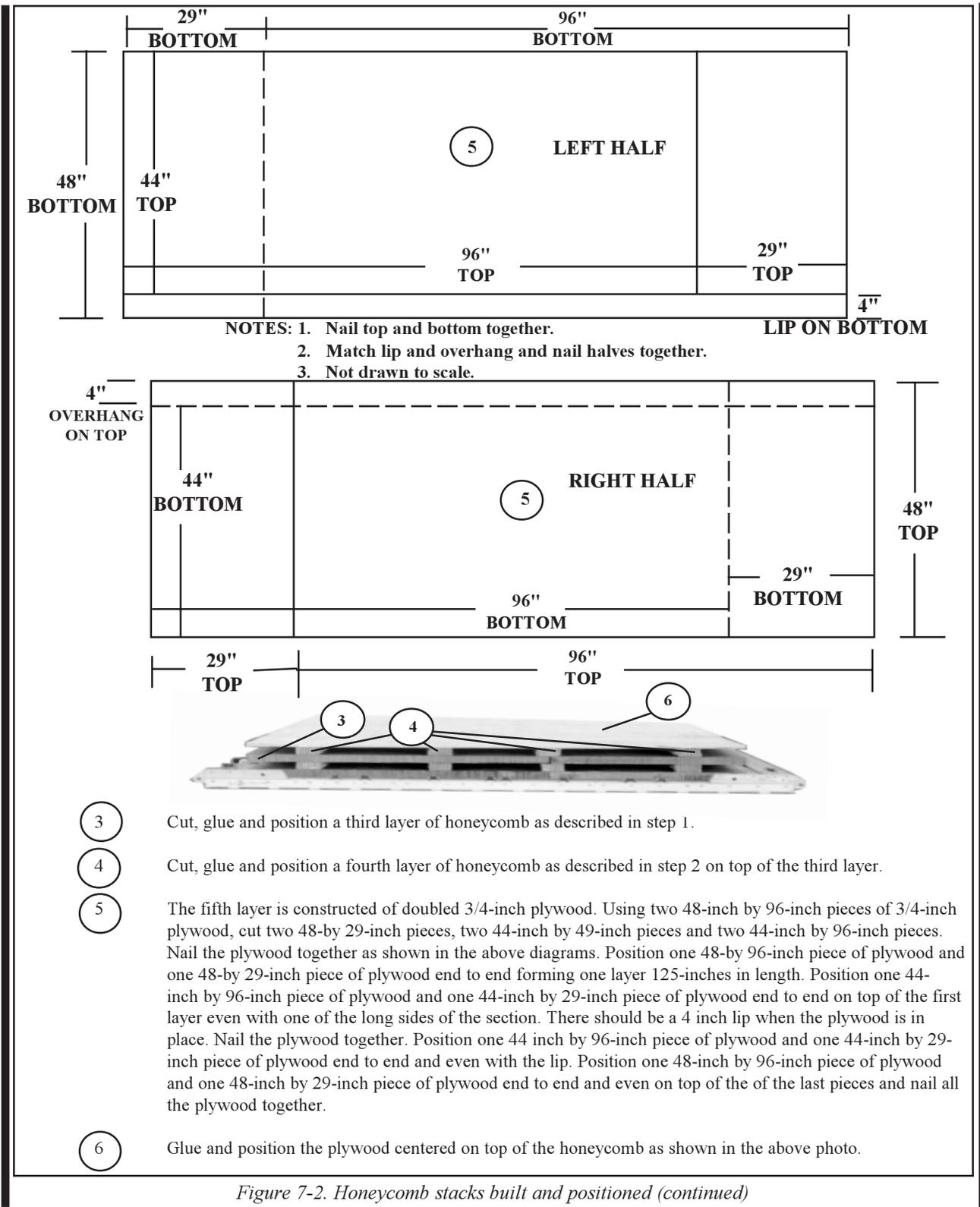
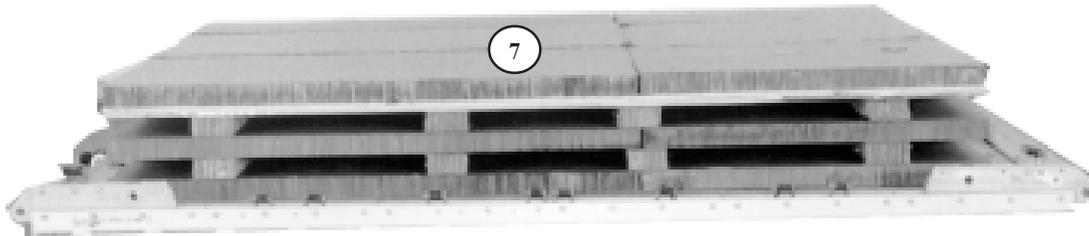


Figure 7-2. Honeycomb stacks built and positioned (continued)



- 7 Form another layer of honeycomb on top of the plywood as described in step 1.

Figure 7-2. Honeycomb stacks built and positioned (continued)

7-4. Positioning and Securing Javelin Rounds

Position and secure 36 Javelin rounds as shown in Figure 7-3.

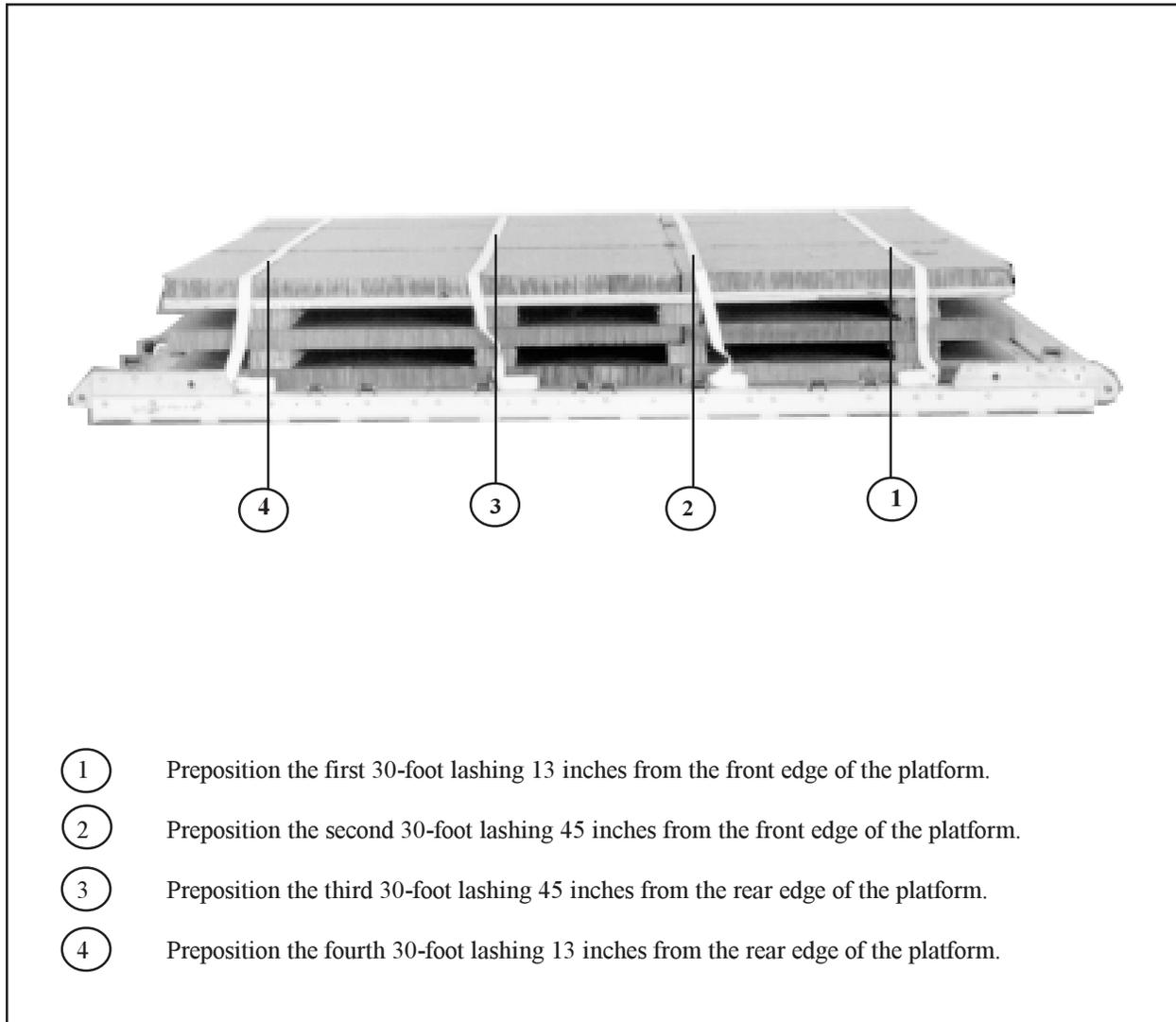
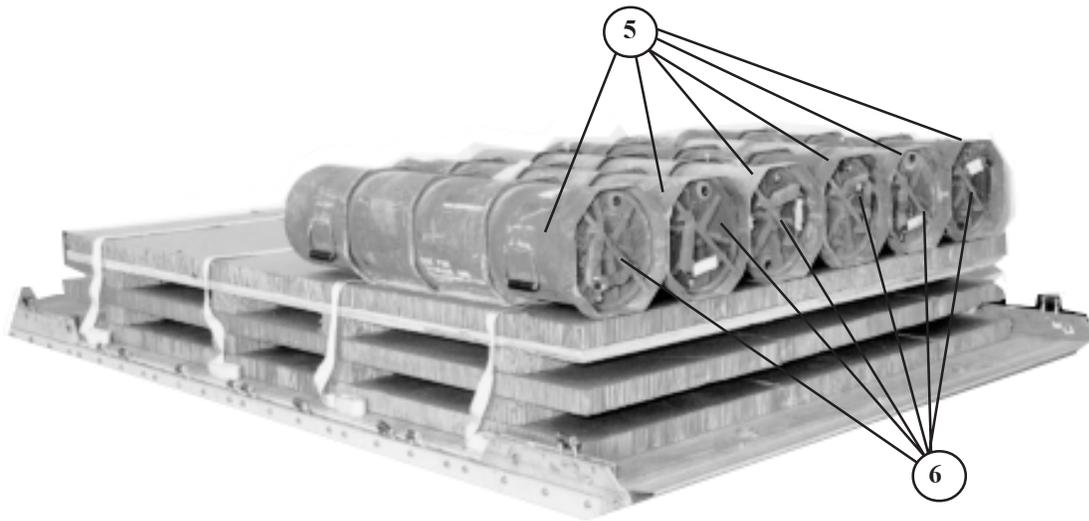
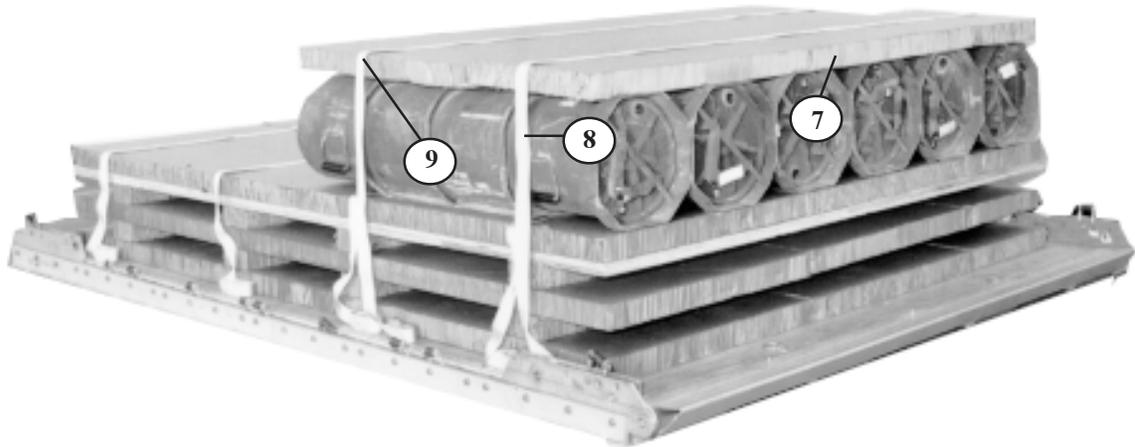


Figure 7-3. Javelin rounds positioned and secured



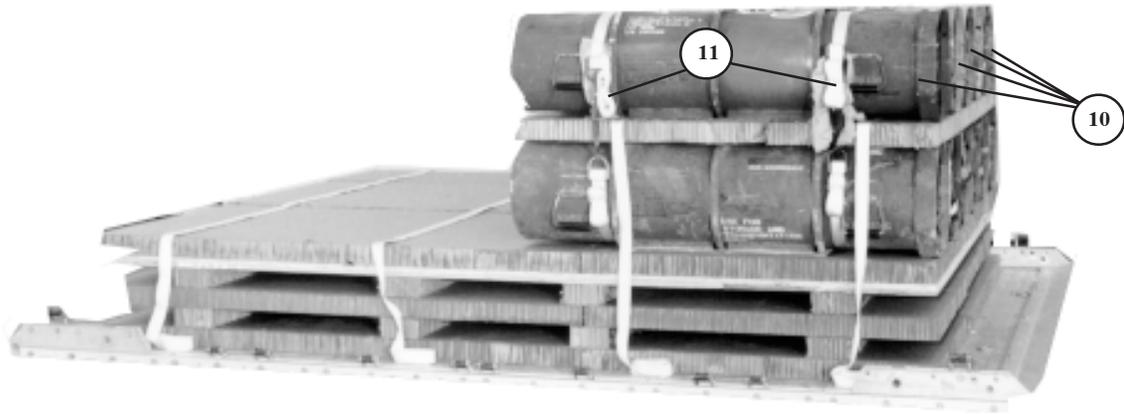
- ⑤ Position six Javelin containers on the front section of the honeycomb centered and even with the front edge of the honeycomb.
- ⑥ Position the container opening ends to the front of the platform.

Figure 7-3. Javelin rounds positioned and secured (continued)



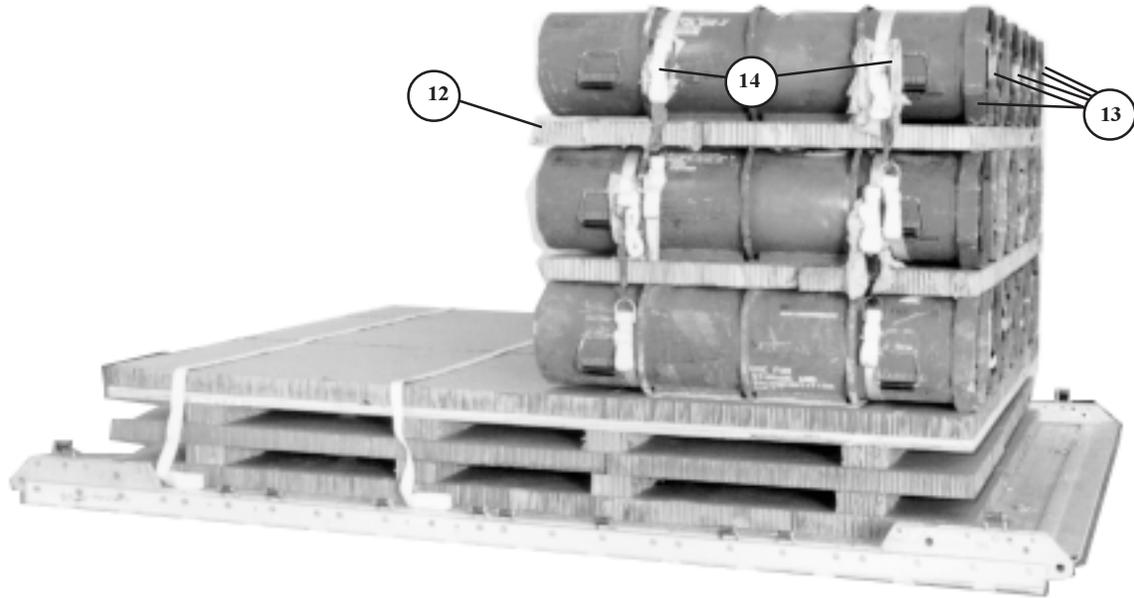
- ⑦ Cut and position a 59-inch by 92-inch piece of honeycomb centered on top of the containers.
- ⑧ Preposition one 30-foot lashing 16 inches from the front edge of the honeycomb.
- ⑨ Preposition a second lashing 40 inches from the front of the honeycomb.

Figure 7-3. Javelin rounds positioned and secured (continued)



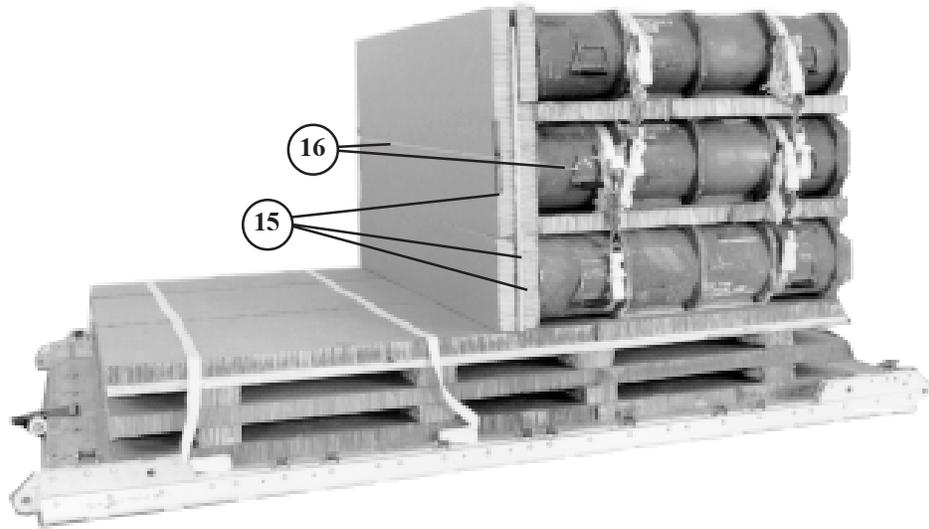
- ⑩ Position six more containers as described in step 5.
- ⑪ Secure all twelve containers with the front two prepositioned lashings from steps 1 and 2.

Figure 7-3. Javelin rounds positioned and secured (continued)



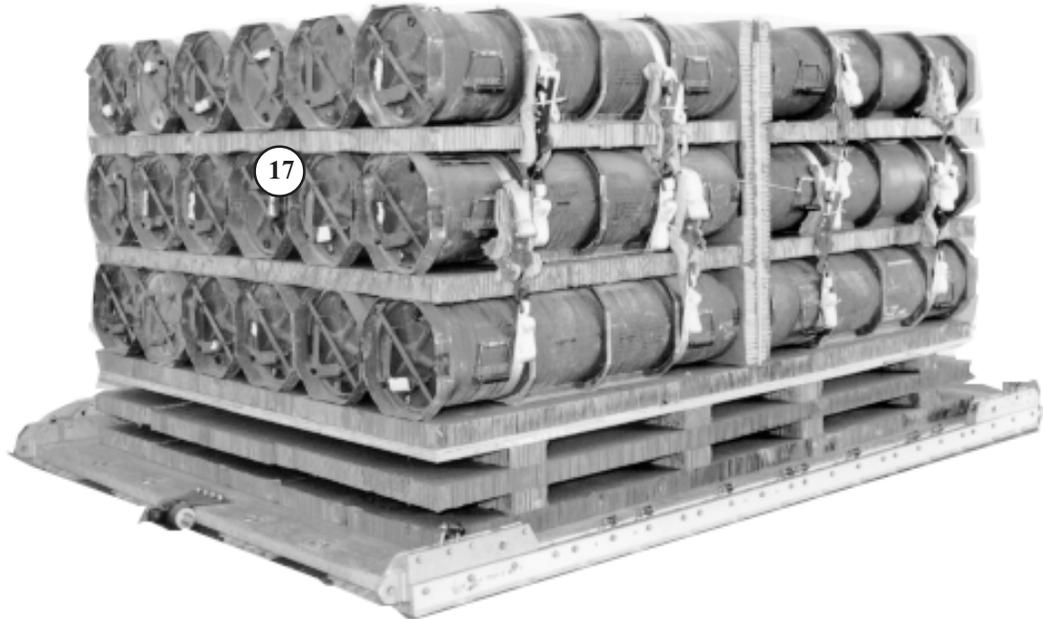
- ⑫ Cut and position another 59-inch by 92-inch piece of honeycomb on top of the first 12 containers.
- ⑬ Position six more containers on top of the honeycomb.
- ⑭ Secure the top 12 containers with the lashings from steps 8 and 9.

Figure 7-3. Javelin rounds positioned and secured (continued)



- ⑮ Position two layers of 51-inch by 92-inch honeycomb with a 3/4-inch piece of 48-inch by 92-inch plywood between the honeycomb, centered and flush with the rear of the sixteen containers.
- ⑯ Secure the honeycomb and plywood to the containers with type III nylon cord.

Figure 7-3. Javelin rounds positioned and secured (continued)



- ①7 Position and secure 18 more containers on the platform following steps 5 through 14. Place the containers with the open ends to the rear of the platform and make the measurements from the rear edge of the platform honeycomb.

Figure 7-3. Javelin rounds positioned and secured (continued)

7-5. Lashing Load to Platform

Lash the load to the platform as shown in Figure 7-4.

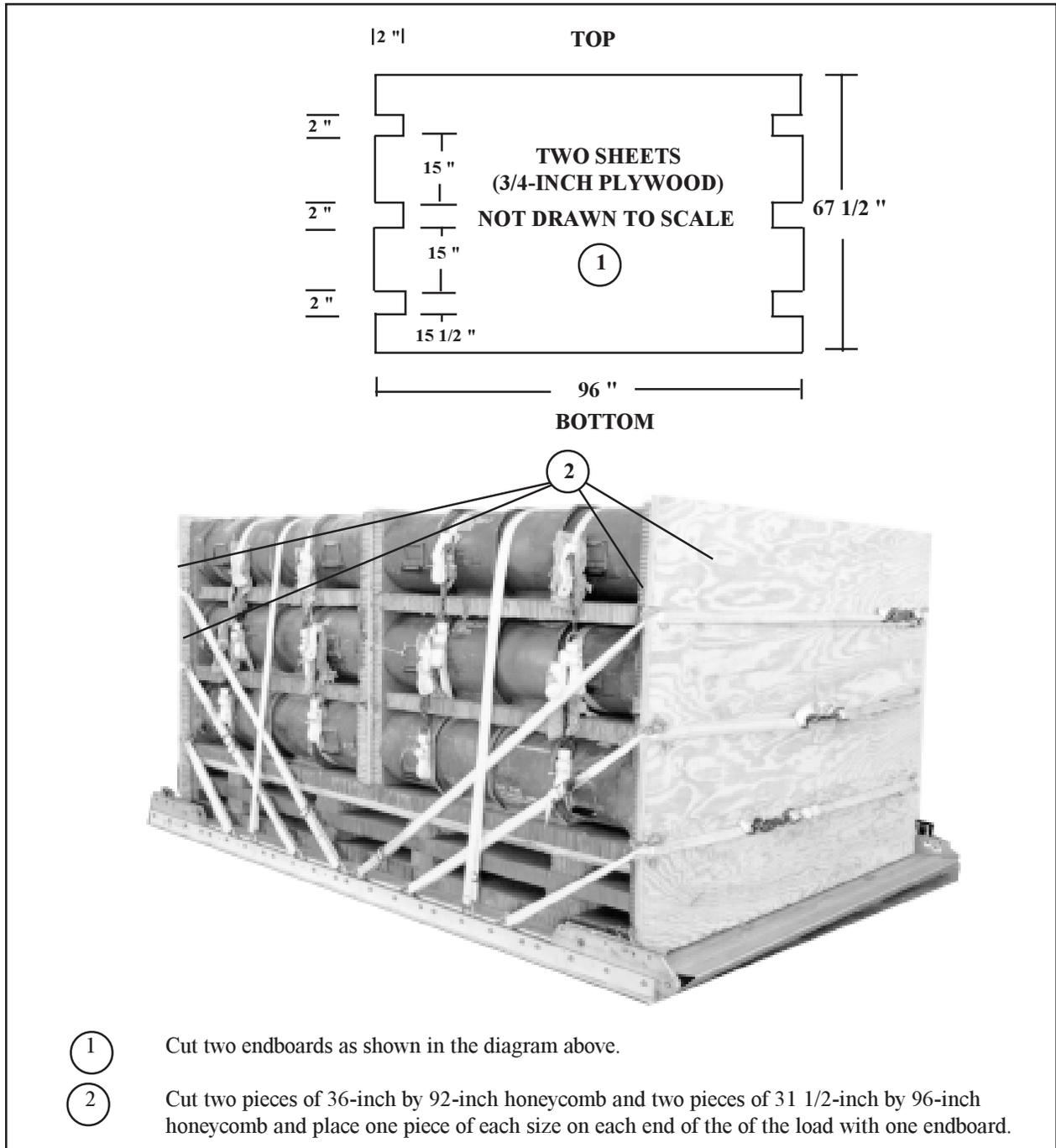
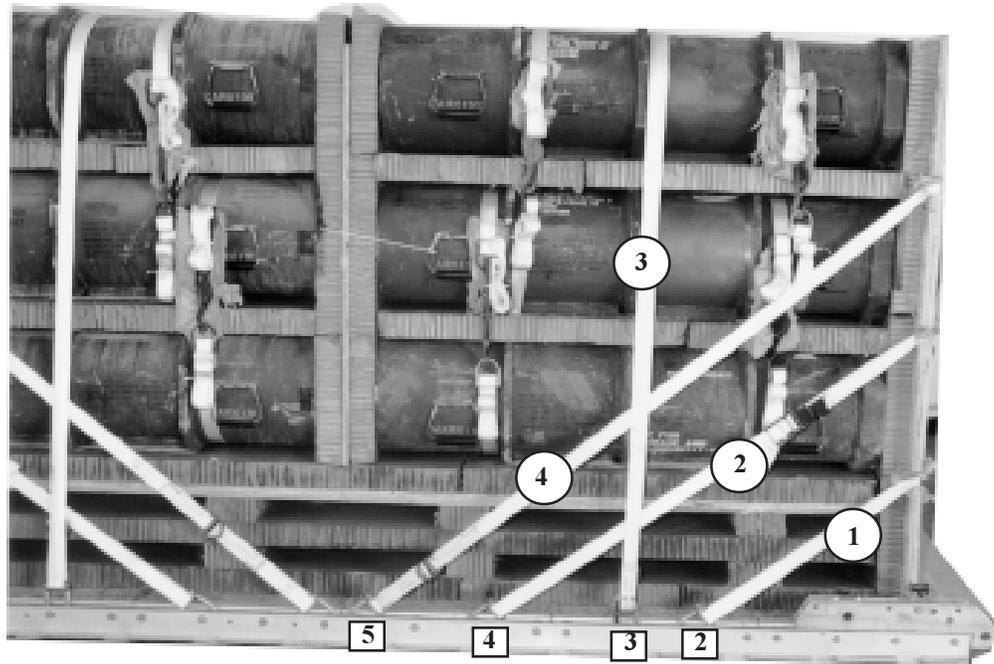
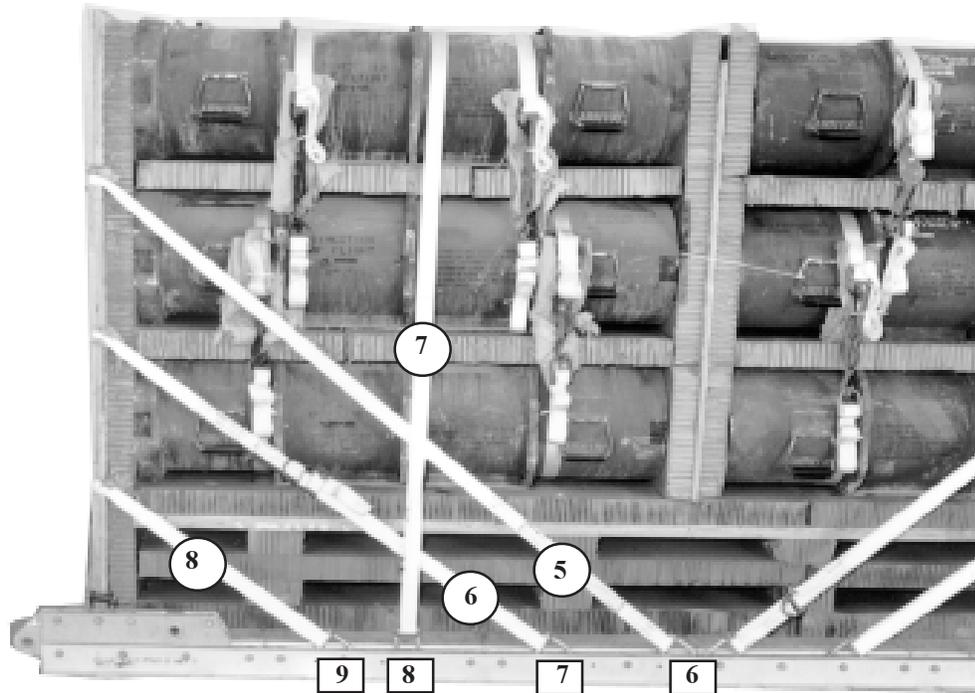


Figure 7-4. Load lashed to platform



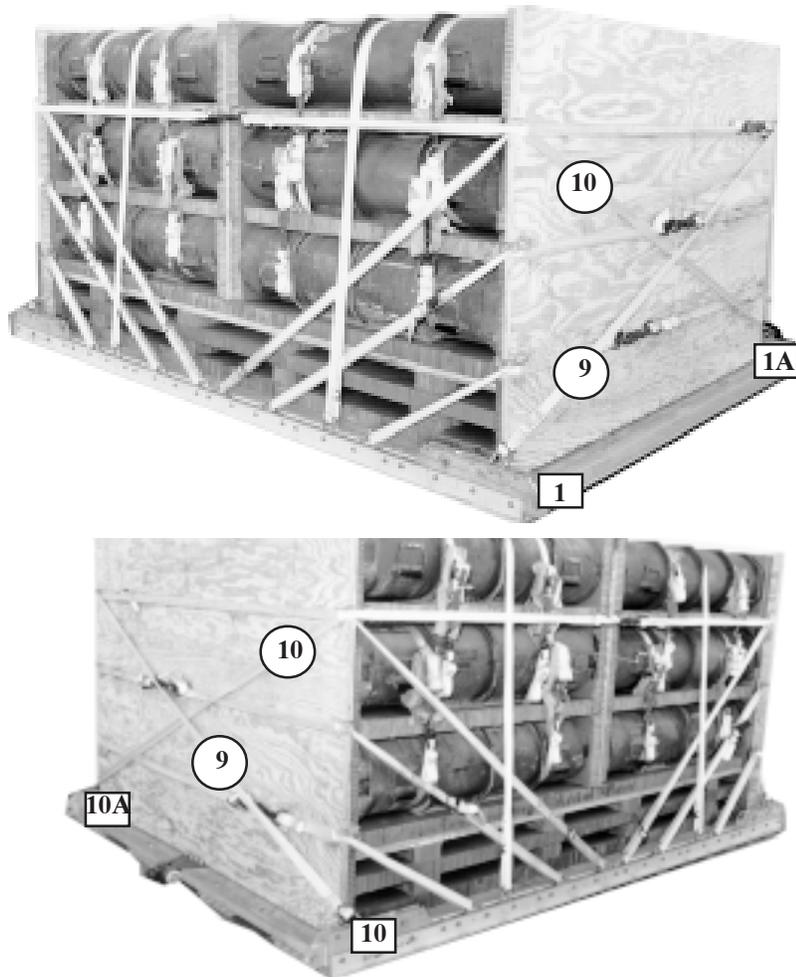
Lashing Number	Tiedown Clevis Number	Instructions
1	2 and 2A	Run a 15-foot lashing from clevis 2 and a 15-foot lashing from clevis 2A. Pass the lashings through the bottom notch of the front end board. Secure the lashings on the front using two D-rings and a load binder.
2	3 and 3A	Run a 15-foot lashing from clevis 3 and a 15-foot lashing from clevis 3A. Pass the lashings over the top of the load. Secure the lashings on top using another 15-foot lashing and two D-rings and a load binder.
3	4 and 4A	Run a 15-foot lashing from clevis 4 and a 15-foot lashing from clevis 4A. Pass the lashings through the middle notch of the front end board. Secure the lashings on the front using another 15-foot lashing and two D-rings and a load binder.
4	5 and 5A	Run a 15-foot lashing from clevis 5 and a 15-foot lashing from clevis 5A. Pass the lashings through the top notch of the front end board. Secure the lashings on the front using another 15-foot lashing and two D-rings and a load binder.

Figure 7-4. Load lashed to platform (continued)



Lashing Number	Tiedown Clevis Number	Instructions
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 top notch of the rear end board. Secure the lashings on the rear using another 15-foot lashing and two D-rings and a load binder.
6	7 and 7A	Run a 15-foot lashing from clevis 7 and a 15-foot lashing from clevis 7A. Pass the lashings through the middle notch of the rear end board. Secure the lashings on the rear using another 15-foot lashing and two D-rings and a load binder.
7	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 top using another 15-foot lashing and two D-rings and a load binder.
8	9 and 9A	Run a 15-foot lashing from clevis 9 and a 15-foot lashing from clevis 9A. Pass the lashings through the bottom notch of the rear end board. Secure the lashings on the rear using two D-rings and a load binder.

Figure 7-4. Load lashed to platform (continued)

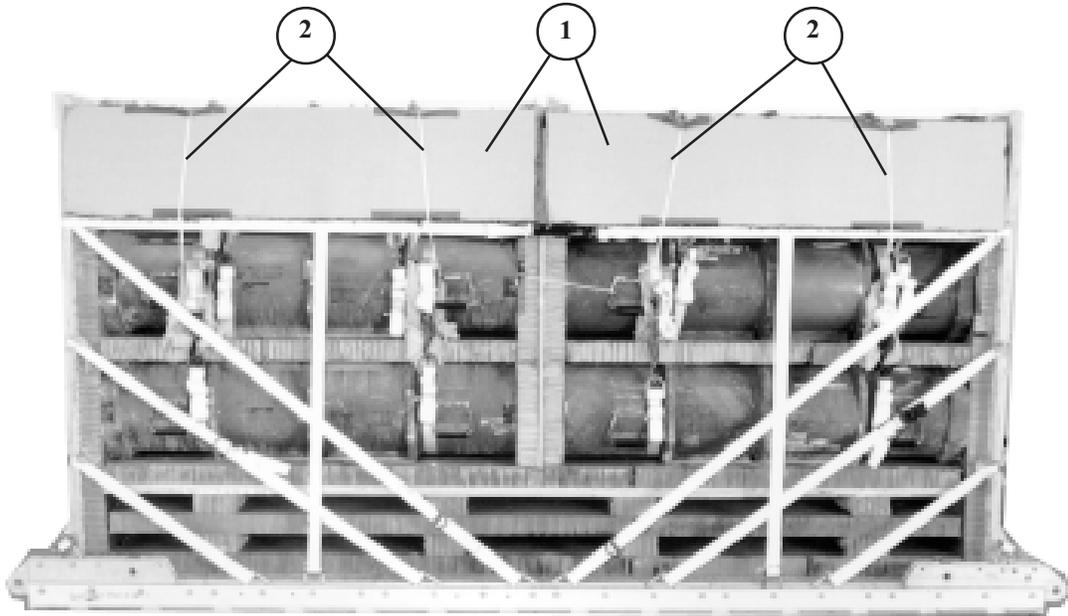


Lashing Number	Tiedown Clevis Number	Instructions
9	1 and 10	Run a 15-foot lashing through clevis 1 and its own D-ring. Pass the running end up through the top left side notch of the front end board. Run another 15-foot lashing through clevis 10 and its own D-ring. Pass the running end up through the top left side notch of the rear end board. Secure the lashings together on the left side of the load using another 15-foot lashing and two D-rings and a load binder.
10	1A and 10A	Run a 15-foot lashing through clevis 1A and its own D-ring. Pass the running end up through the top right side notch of the front end board. Run another 15-foot lashing through clevis 10A and its own D-ring. Pass the running end up through the top right side notch of the rear end board. Secure the lashings together on the right side of the load using another 15-foot lashing and two D-rings and a load binder.

Figure 7-4. Load lashed to platform (continued)

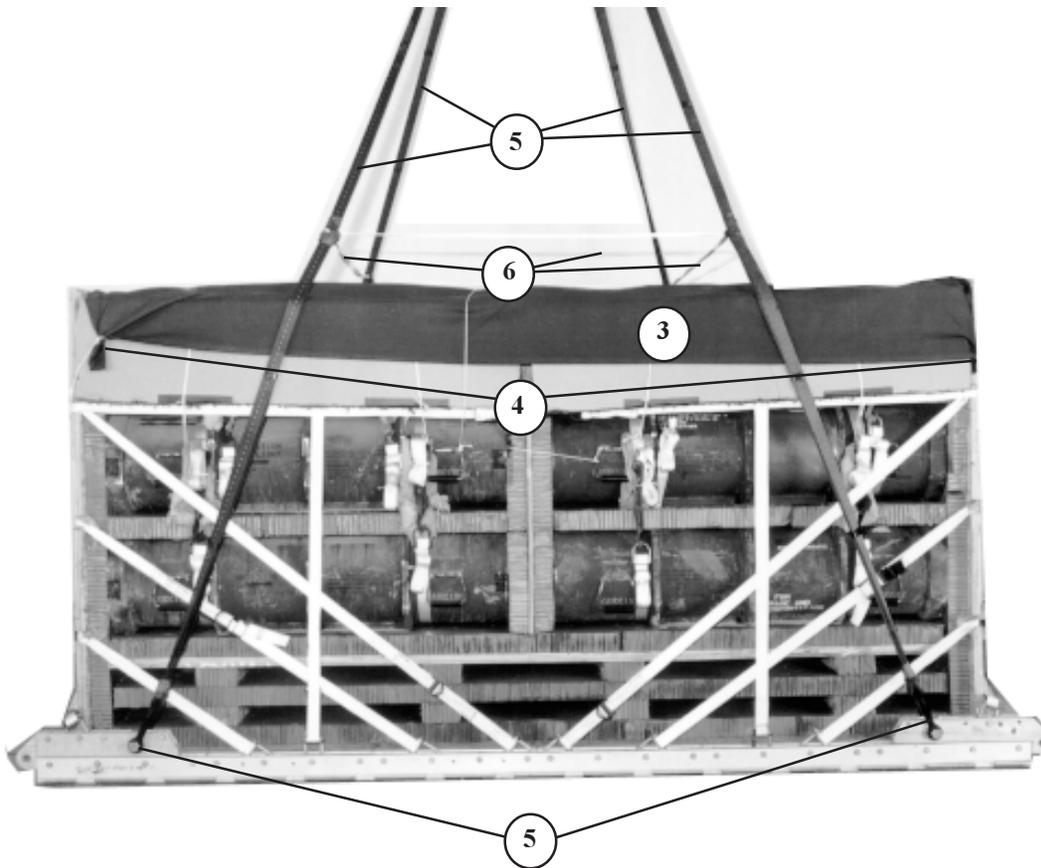
7-6. Covering Load, Installing Suspension Slings and Deadman's Tie

Cover the load and install the suspension slings as shown in Figure 7-5.



- ① Cut four 18-inch by 64-inch pieces of honeycomb and position two pieces on each side of the load.
- ② Secure the pieces to the load with type III nylon cord.

Figure 7-5. Load covered and suspension slings and deadman's tie installed

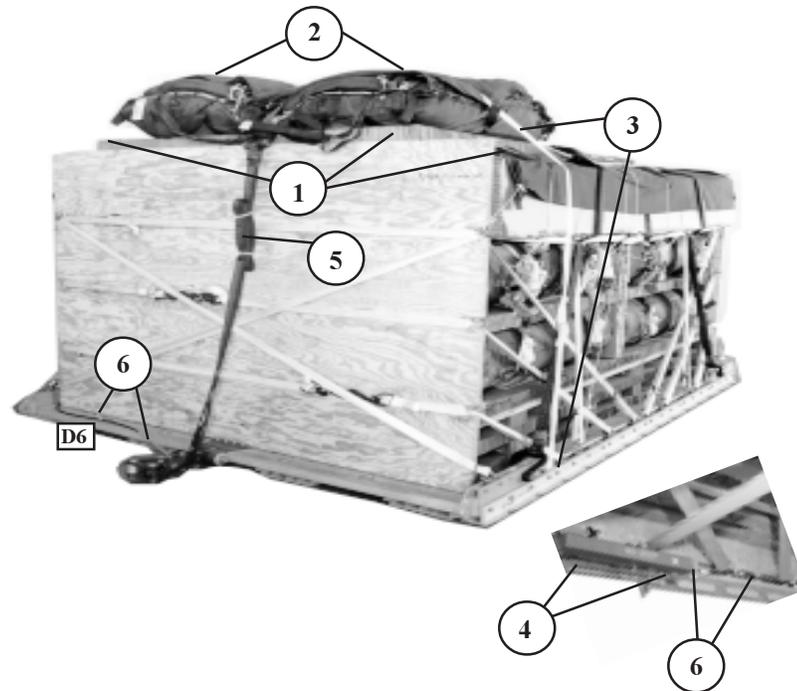


- ③ Position a 120-inch by 125-inch load cover on top of the load.
- ④ Secure the cover in place with type III nylon cord.
- ⑤ Attach a large clevis to each of four 16-foot (2-loop), type XXVI nylon suspension slings and attach each large clevis to each of the four tandem links.
- ⑥ Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 7-5. Load covered and suspension slings and deadman's tie installed (continued)

7-7. Stowing Cargo Parachutes and Installing Extraction System

Stow two G-11B cargo parachutes and install the EFTC according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-6.

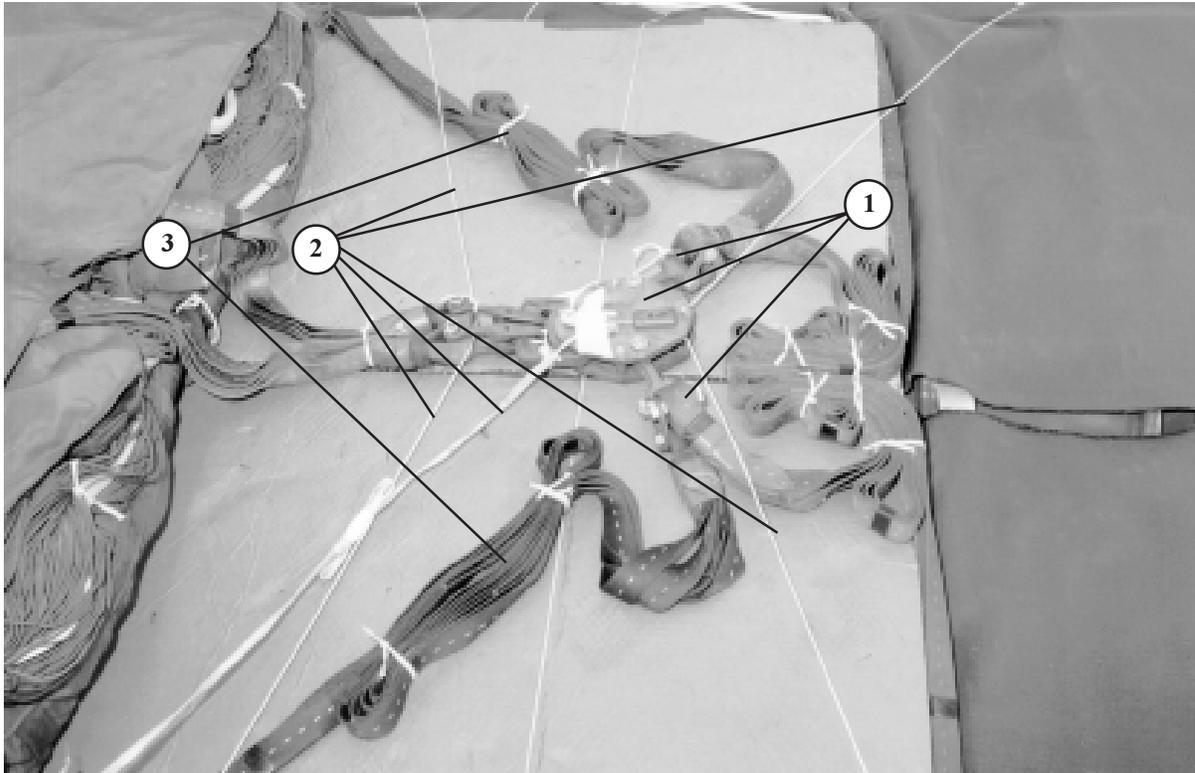


- 1 Place two full sheets of honeycomb on top of the load side by side with the ends of the sheets flush with the rear end board and secure in place with type III nylon cord.
- 2 Stow two G-11B cargo parachutes on the load according to FM 10-500-2/TO 13C7-1-5.
- 3 Run one length of type VIII nylon webbing from bushing 20 on the left side of the platform, through the center carrying handles of the parachutes and bushing 20 on the right side of the platform and secure.
- 4 Using the aft mounting holes for the EFTC bracket, install the components of the EFTC according to FM 10-500-2/TO 13C7-1-5.
- 5 Attach a 9-foot (2-loop), type XXVI nylon sling to be used as a deployment line.
- 6 Install a 16-foot EFTC cable and safety the cable to tiedown ring D6 and along the left side rail using one turn of type I, 1/4-inch cotton webbing.

Figure 7-6. Cargo parachutes stowed and extraction system installed

7-8. Installing Parachute Release

Prepare, attach, and safety an M-1 release according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-7.



- ① Place the M-1 release on top of the previous placed honeycomb located on top of the load and attach the suspension slings and parachute riser extensions.
- ② Secure the M-1 release to convenient points on the load with type III nylon cord.
- ③ S-fold and tie any excess suspension slings.

Figure 7-7. M-1 cargo parachute installed

7-9. Placing Extraction Parachute

Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the extraction line on the load for installation in the aircraft.

7-10. Installing Provisions for Emergency Restraints

Select and install the provisions for the emergency aft restraints according to the emergency aft restraint requirements table in FM 10-500-2/TO 13C7-1-5.

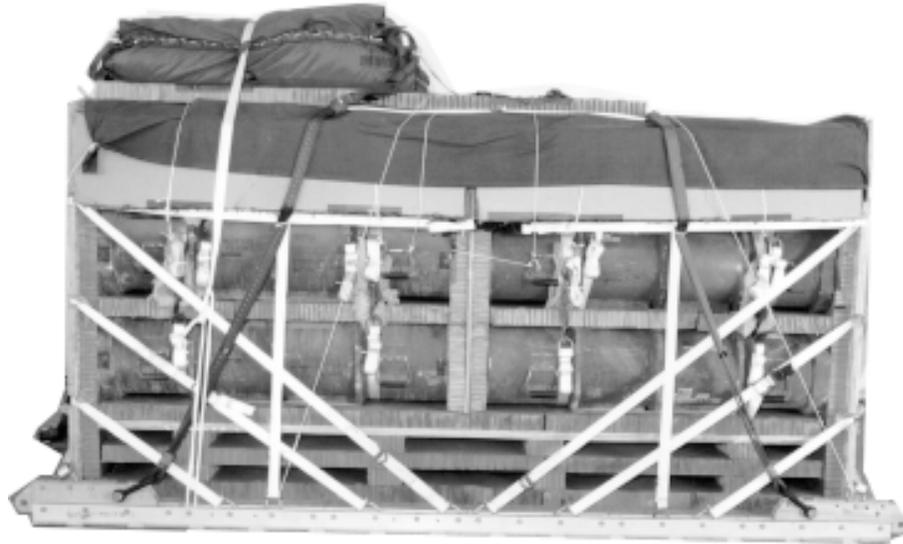
7-11. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-8. Complete Shipper's Declaration for Dangerous Goods and affix to load. If the load varies from the one shown, the weight, height, CB, tip off curve, and parachute requirements must be recomputed.

7-12. Equipment Required

Use the equipment listed in Table 7-1 to rig the load shown in Figure 7-8.

CAUTION
Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight.....	5,976 pounds
Height.....	86 inches
Width.....	108 inches
Length.....	166 inches
Overhang: Front.....	5 inches
Rear.....	17 inches
Center of Balance (CB) (from front edge of the platform).....	76 inches
Extraction System.....	EFTC

Figure 7-8. Thirty-six Javelin rounds in containers rigged on a twelve-foot type V platform for low-velocity airdrop

Table 7-1. Equipment required for rigging 36 Javelin rounds on a 12-foot, type V airdrop platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal.	As required
4030-00-090-5354	Clevis, suspension, 1-in (large)	4
4020-00-240-2146	Cord, nylon, type III, 550-lb.	As required
1670-00-434-5785	Coupling, airdrop extraction force transfer with cable, 16-ft	1
	Cover:	
1670-00-360-0328	Clevis, large	1
1670-00-360-0329	Link, type IV	1
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line (line bag)	1
	Line extraction:	
1670-01-064-4452	60-ft (1-loop), type XXVI (for C-130)	1
1670-01-107-7652	160-ft (1-loop), type XXVI (for C-141, C-5, or C-17)	1
1670-00-783-5988	Link assembly, type IV	1
1670-00-753-3928	Pad, energy-dissipating, (honeycomb), 3- by 36- by 96-in:	9 sheets
	6- by 92-in	8
	18- by 64-in	4
	20- by 49-in	3
	20- by 76-in	3
	36- by 49-in	6
	36- by 76-in	6
	36- by 96-in	2
	51- by 92-in	2
	59- by 92-in	2
	Parachute:	
	Cargo:	
1670-01-016-7841	G-11B	1
	Cargo extraction:	
1670-01-063-3715	15-ft	1
	Platform, airdrop, type V, 12-ft:	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis, assembly (type V)	(20)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link assembly (Multipurpose link)	(4)

Table 7-1. Equipment required for rigging thirty-six Javelin rounds on a 12-foot, type V airdrop platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4-in: 44- by 29-in 44- by 96-in 48- by 29-in 48- by 92-in 48- by 96-in 67 1/2- by 96-in	9 sheets 2 2 2 1 2 2
1670-01-097-8816	Release, cargo parachute, M-1 Sling, cargo, airdrop:	1
1670-00-823-5042	For suspension slings: 16-ft (2-loop), type XXVI nylon webbing	4
1670-00-753-3792	For deployment: 9-ft (2-loop), type XXVI nylon webbing	1
1670-01-062-6301	Riser extension: 3-ft (2-loop), type XXVI nylon webbing	2
1670-00-040-8219	Strap, parachute release with fastener and knife	1
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tiedown assembly, 15-ft	28
1670-00-937-0272	Binder, load, 10,000-lb capacity	(10)
5365-00-937-0147	D-ring, heavy-duty	(32)
1670-00-937-0273	Strap, 15-ft	(28)
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
8305-00-082-5752	Nylon, tubular 1/2-in	As required