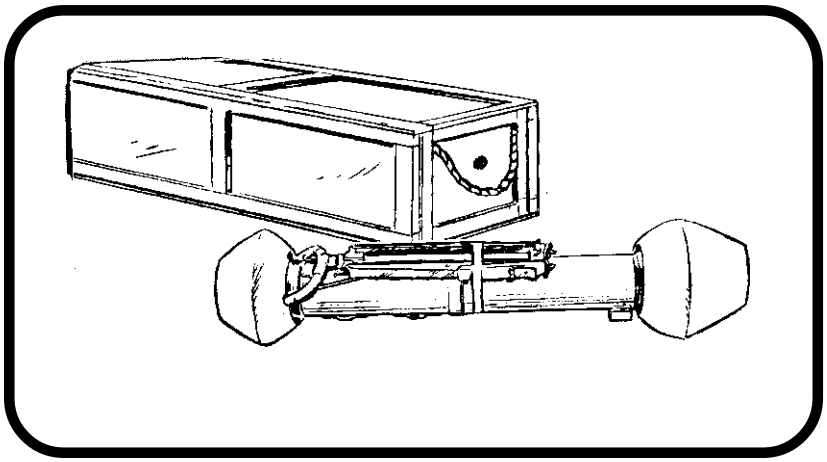
C3, FM 10-552/TO 13C7-22-61

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING DRAGON AND JAVELIN MISSILES



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Field Manual
No. 10-552
Technical Order
No. 13C7-22-61

HEADQUARTERS
DEPARTMENT OF THE ARMY
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Washington, DC, 1 January 2001

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING DRAGON 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, C-141B, 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 C17 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, C-141, or C-17 aircraft.

p. Javelin four-round A-7A door bundle rigged for low-velocity airdrop from a C-130, C-141 or C-17 aircraft.

q. Javelin six-round A-22 stretch container rigged for low-velocity airdrop from a C-130, C-141, or C-17 aircraft. 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

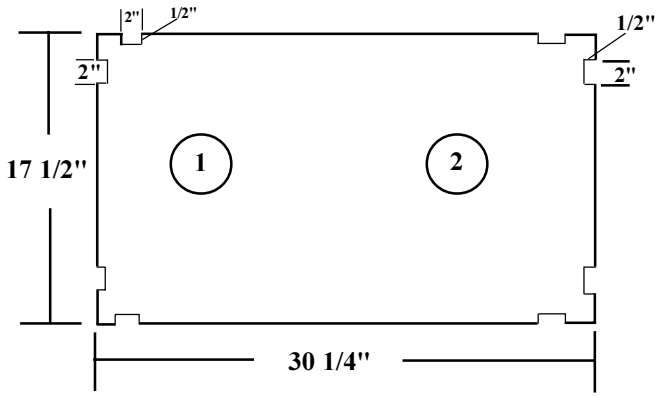
RIGGING TWO-ROUND A-7A DOOR BUNDLE

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, C-141, C-5 and C-17 aircrafts. The Javelin two-round A-7A door bundle has an approximate rigged weight of 146 pounds. It has an approximate 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 T-10 cargo parachute.

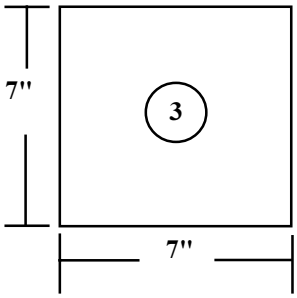
6-2. Preparing Two-Round A-7A Door Bundle

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.



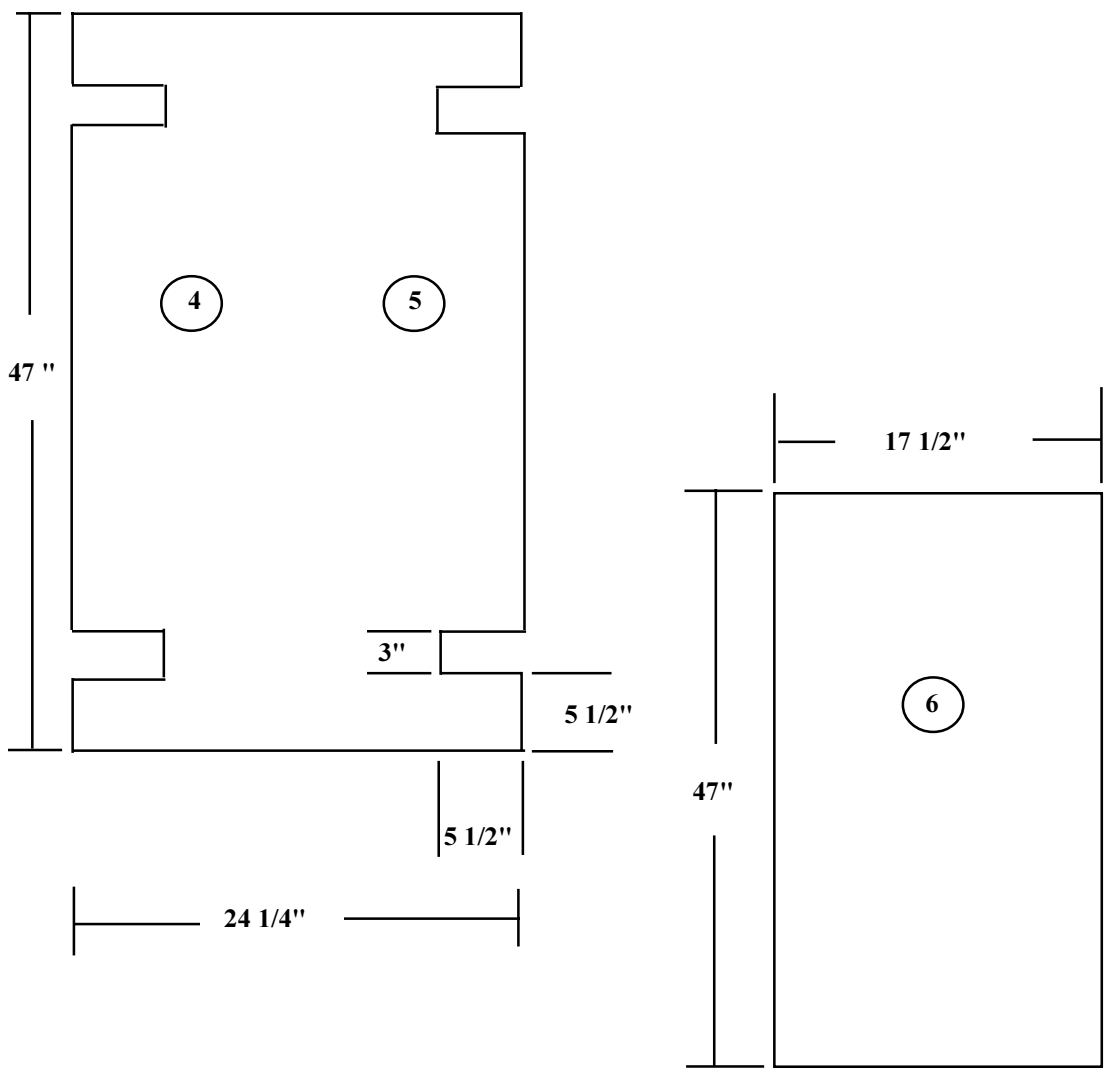
1 Cut two 17 1/2-inch by 30 1/4-inch pieces of 3/4-inch plywood with eight 1/2-inch by 2-inch cutouts. Pad and tape sharp edges of the cutouts.

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

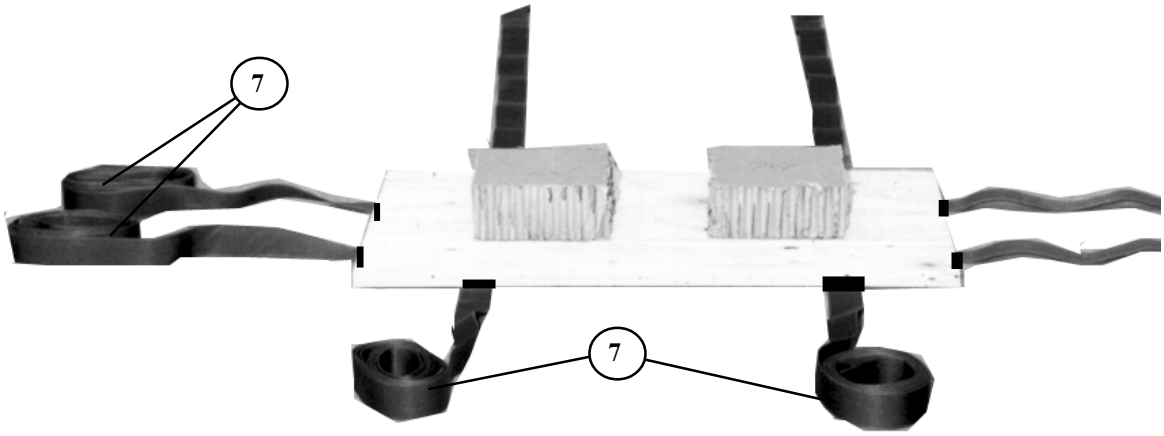


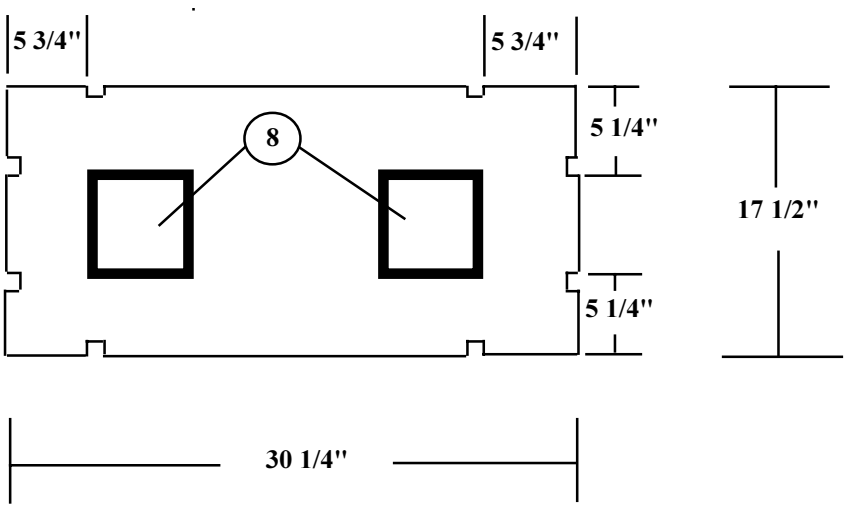
4 Cut two 24 1/4-inch by 47-inch pieces of 3/4-inch plywood with four 3-inch by 5 1/2-inch cutouts. Pad and tape sharp edges of the cutouts.

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)

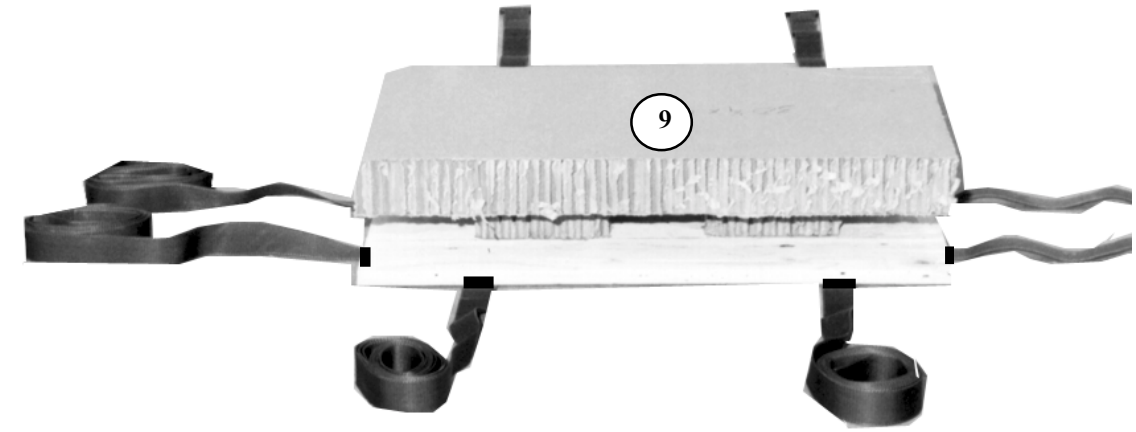


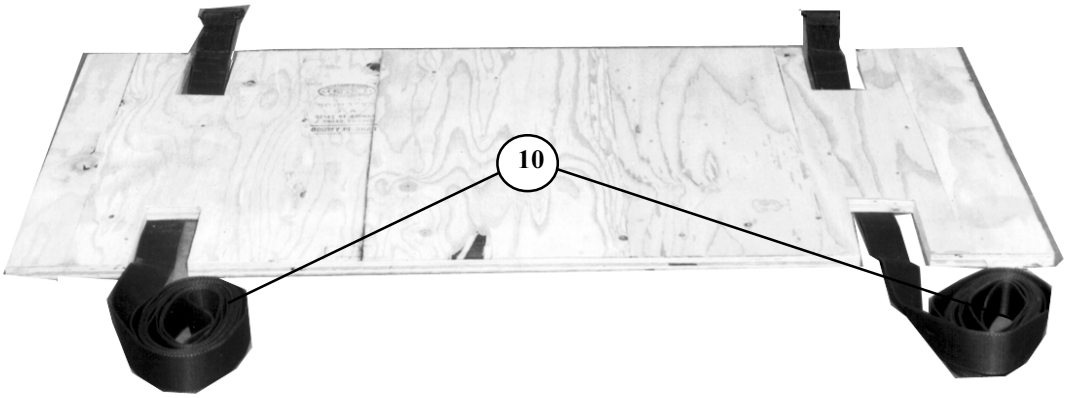


7 Position four A-7A straps under one of the 17 1/2-inch by 30 1/4-inch pieces of plywood. Position each strap approximately 5 inches from each edge of the plywood.

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)

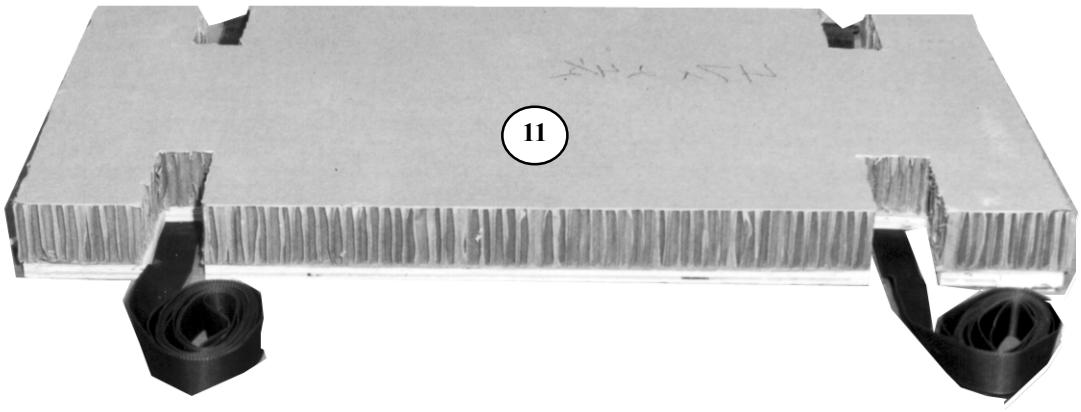


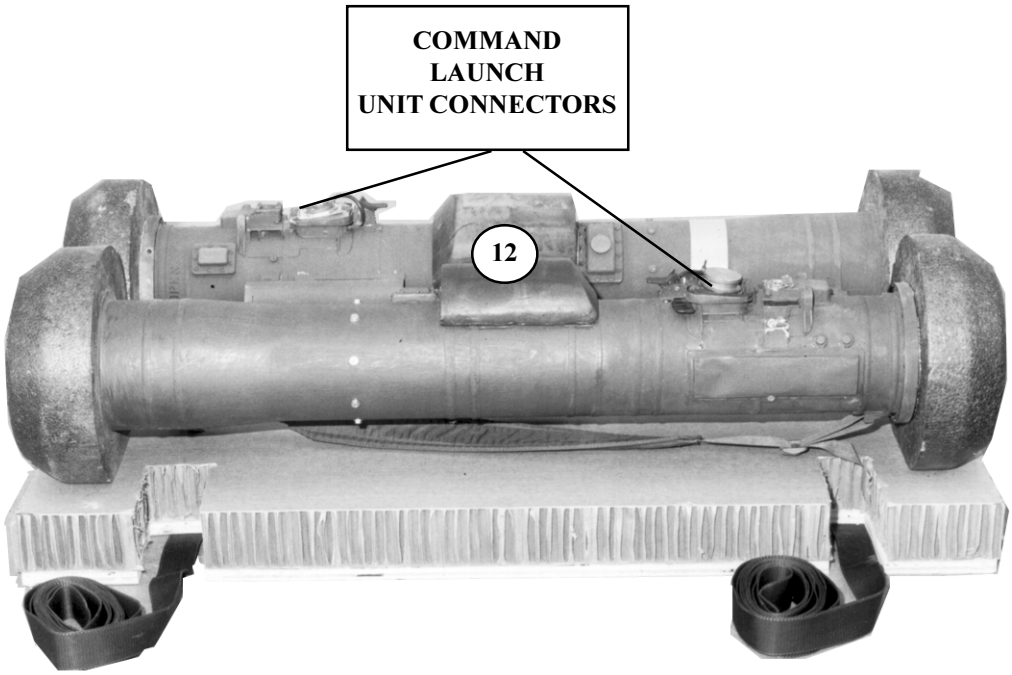


9 Position and glue one of the 17 1/2-inch by 30 1/4-inch pieces of honeycomb centered on the plywood in step 8.

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)

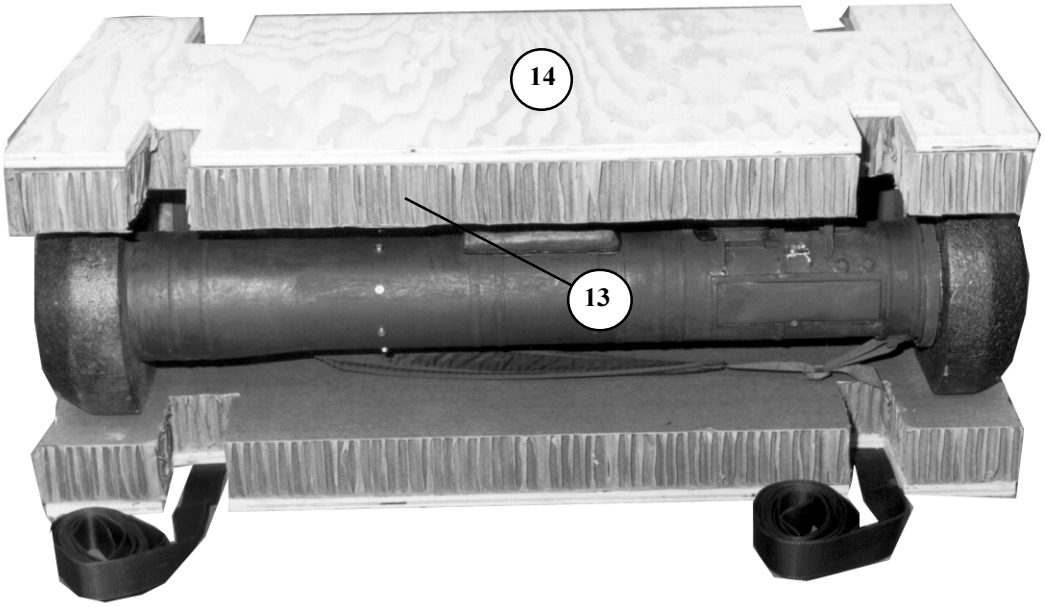


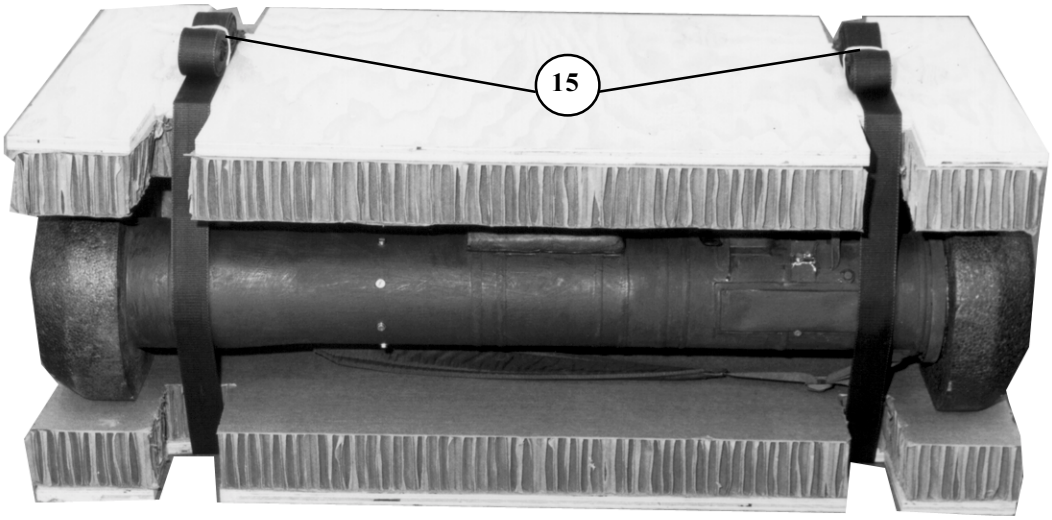


11 Position and glue one of the matching pieces of honeycomb on the top of the plywood in step 10.

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)



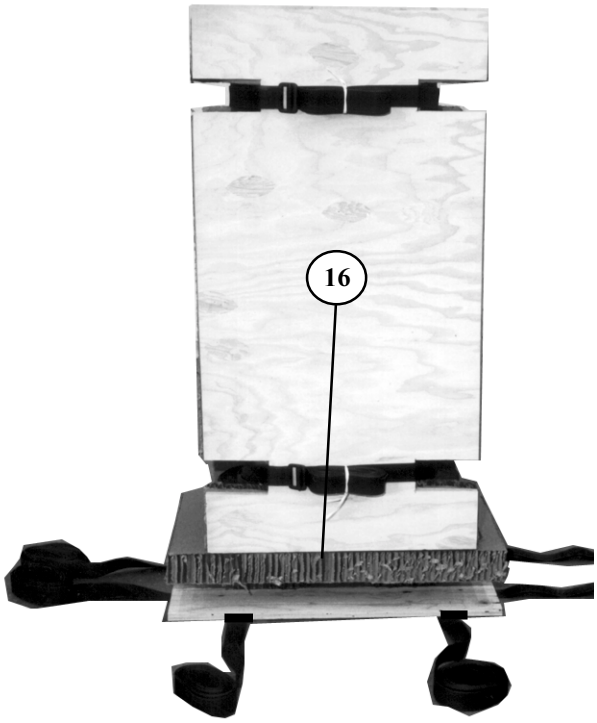


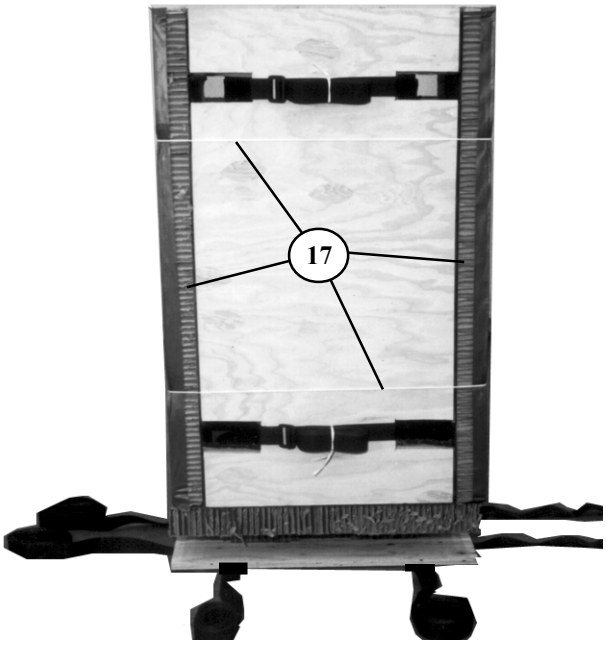
13 Position the other piece of 24 1/4 inch by 47 inch honeycomb with the cutouts evenly on top of the launch tubes.

14 Position and glue the matching piece of plywood on top of the honeycomb.

15 Secure the A-7A straps. Fold and secure excess straps with one turn single type I, 1/4-inch cotton webbing.

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.

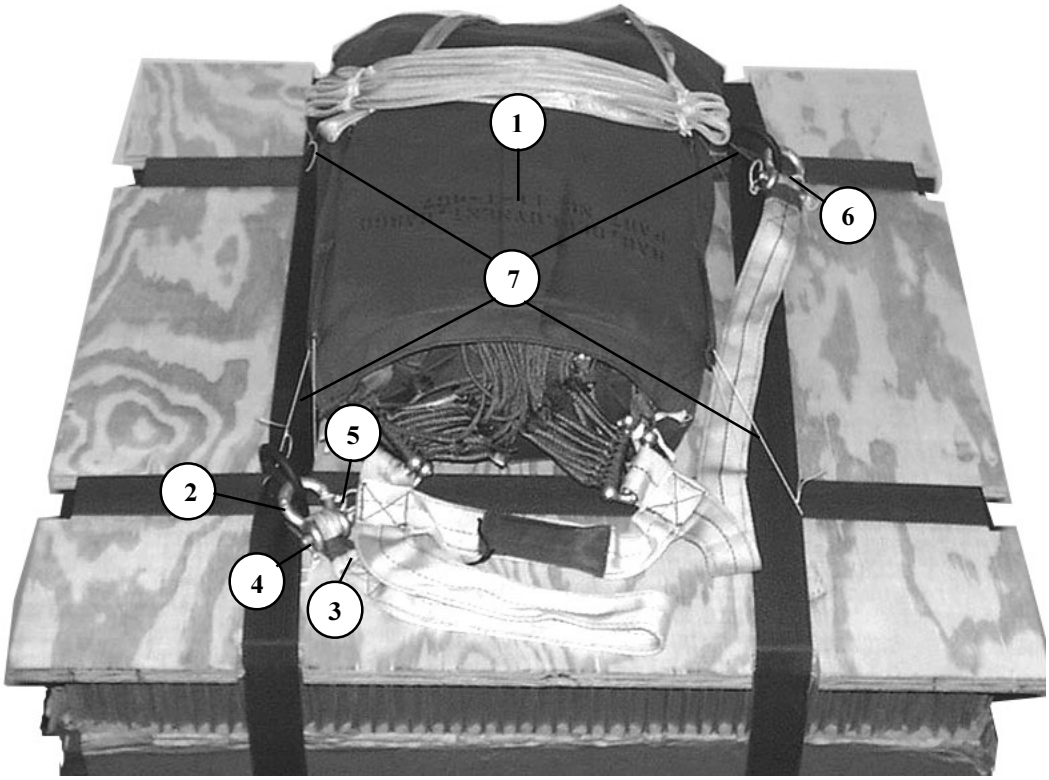
19 Position and glue one 17 1/2-inch by 30 1/4-inch piece of plywood on the honeycomb.

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. Attaching Parachute to Load

Attach a T-10 cargo parachute as shown in Figure 6-2.



1. Center the parachute on top of the load between the D-rings.
2. Place the bell portion of a small clevis on one D-ring.
3. Place the loop end of a riser between the clevis arms.
4. Insert the clevis pin through the holes in the clevis arms and the loop of the riser.
5. Install the cotter pin. Spread the ends of the cotter pin to secure it in place.
6. Attach the other riser to the other D-ring as described in steps 1 through 5.
7. Secure the parachute from the retainer straps to the A-7A straps with lengths of ticket number 8/7 cotton thread.

Figure 6-2. Parachute attached to load

6-4. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-3. Complete Shipper's Declaration for Dangerous Goods and affix to load.

6-5. 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	T-10 cargo

Figure 6-3. Javelin two-round A-7A door bundle rigged

Table 6-1. Equipment required for rigging the Javelin two-round A-7A door bundle for 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
No NSN	Parachute: T-10 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
8310-01-102-4478	Thread, cotton, ticket 8/7	As required
8305-00-268-2411	Webbing, cotton, 1/4-in, 80-lb	As required

Section II

RIGGING FOUR-ROUND A-7A DOOR BUNDLE

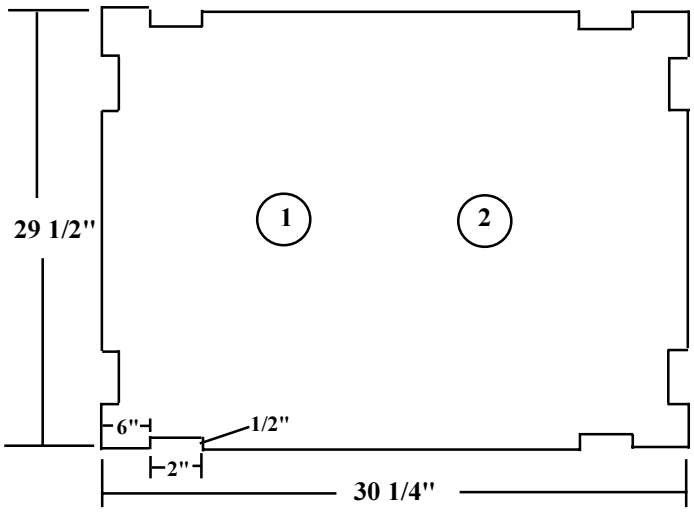
6-6. Description of Load

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 (G14) and 65 1/2 inches (T-10), a width of 37 1/2 inches and a length of 44 1/2 inches. The four-round bundle uses the G-14 or T-10 cargo parachute.

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

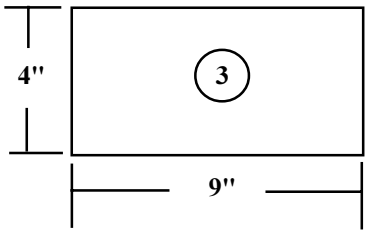
Prepare the four-round A-7A door bundle according to FM 10-500-3/TO 13C7-1-11 and as shown in Figure 6-4.

Note: This drawing is not to scale.



1 Cut two 29 1/2-inch by 30 1/4-inch pieces of 3/4-inch plywood with eight 1/2-inch by 2-inch cutouts. Pad and tape the sharp edges of the cutouts.

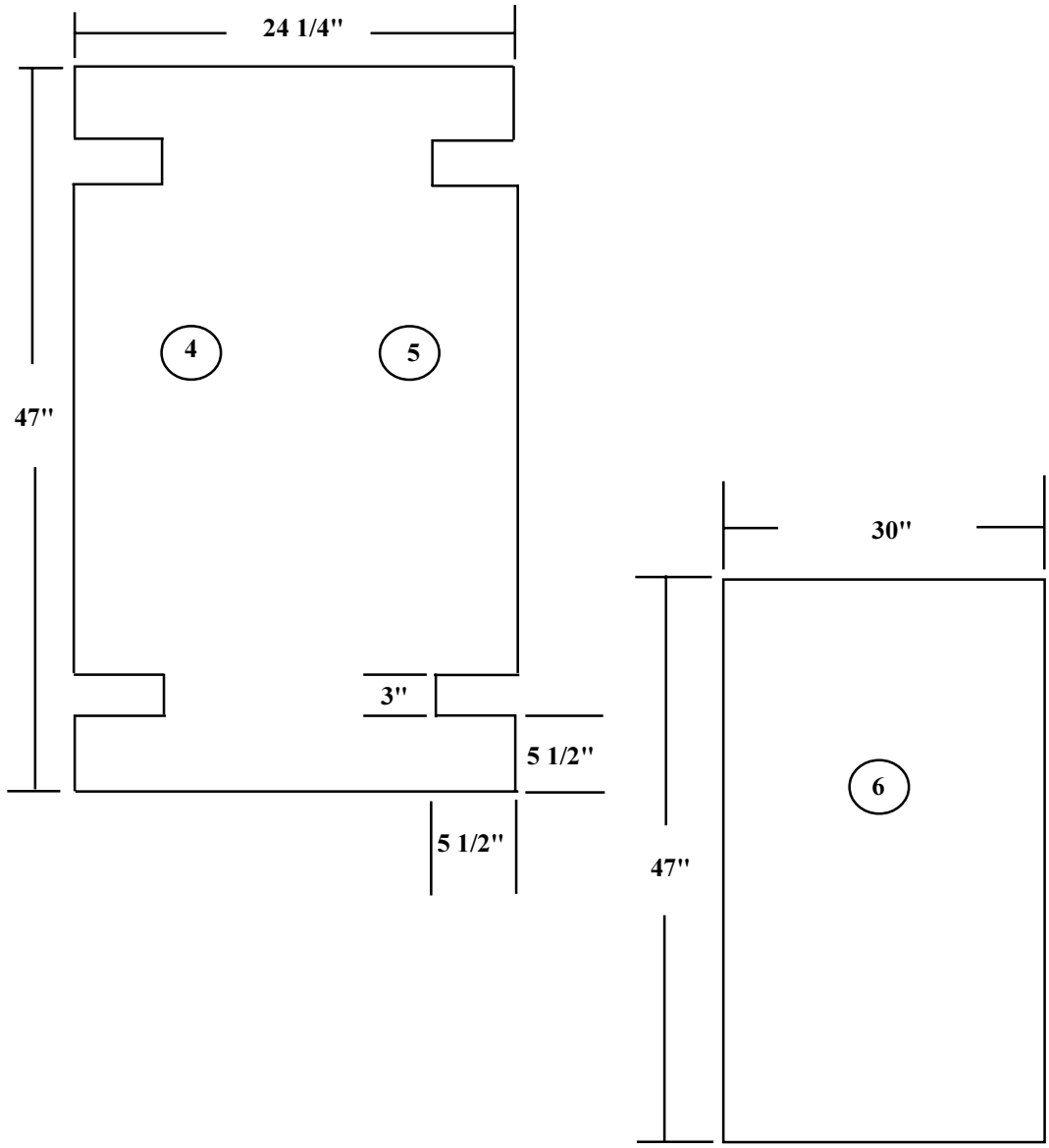
2 Cut two 29 1/2-inch by 30 1/4-inch pieces of honeycomb.



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

Figure 6-4. Four-round A-7A door bundle prepared

Note: This drawing is not to scale.



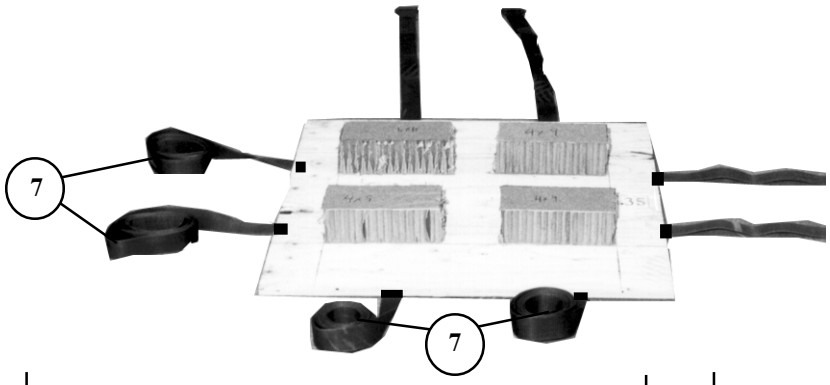
4 Cut three 24 1/4-inch by 47-inch pieces of 3/4-inch plywood with four 3-inch by 5 1/2-inch cutouts. Pad and tape the sharp edges of the cutouts.

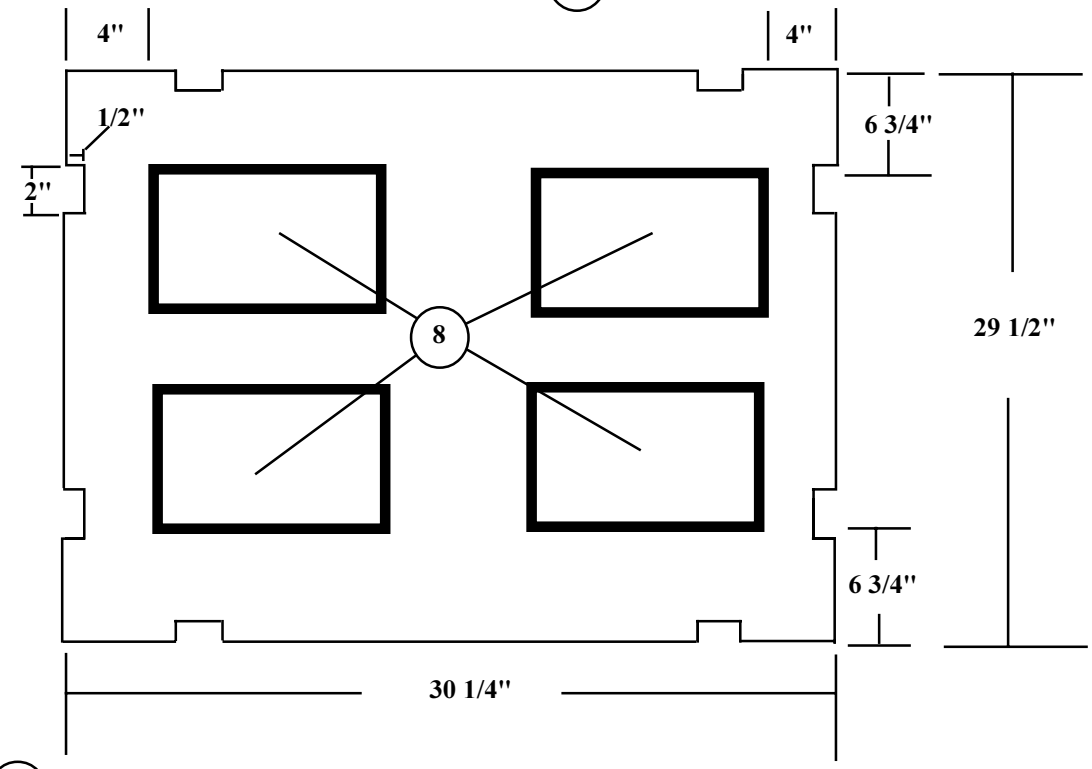
5 Cut two pieces of honeycomb to match step 4.

6 Cut two 30-inch by 47-inch pieces of honeycomb.

Figure 6-4. Four-round A-7A door bundle prepared (continued)

Note: This drawing is not to scale.

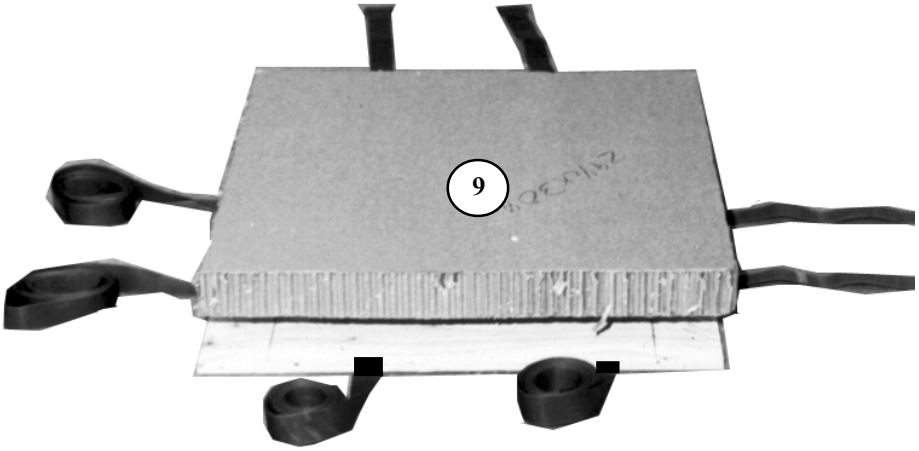


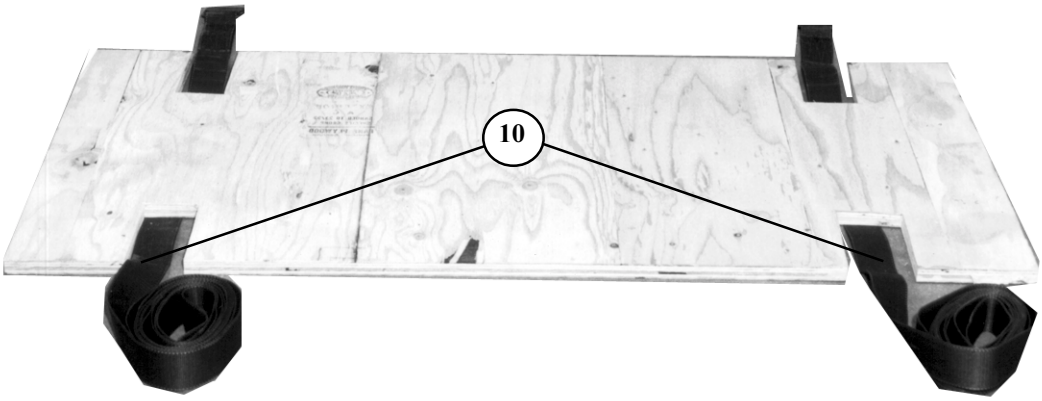


7 Position four A-7A straps under one of the 29 1/2-inch by 30 1/4-inch pieces of plywood. Position each strap in each set of cutouts of the plywood.

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 plywood and the rear pieces should be 4 inches from the rear edge of the plywood.

Figure 6-4. Four-round A-7A door bundle prepared (continued)

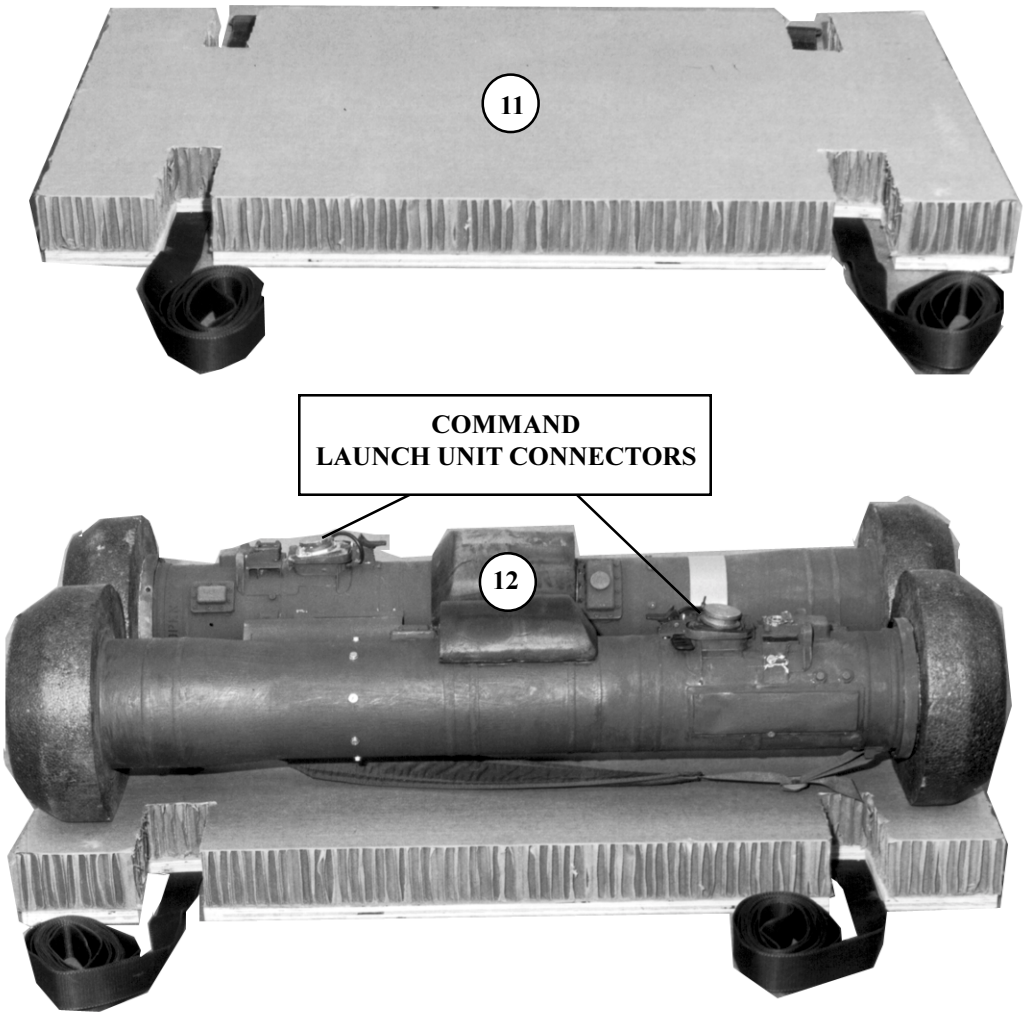




9 Position and glue one of the 29 1/2-inch by 30 1/4-inch pieces of honeycomb centered on the plywood in step 8.

10 Position two A-7A straps, one in each set of cutouts on the 24 1/4-inch by 47-inch piece of plywood.

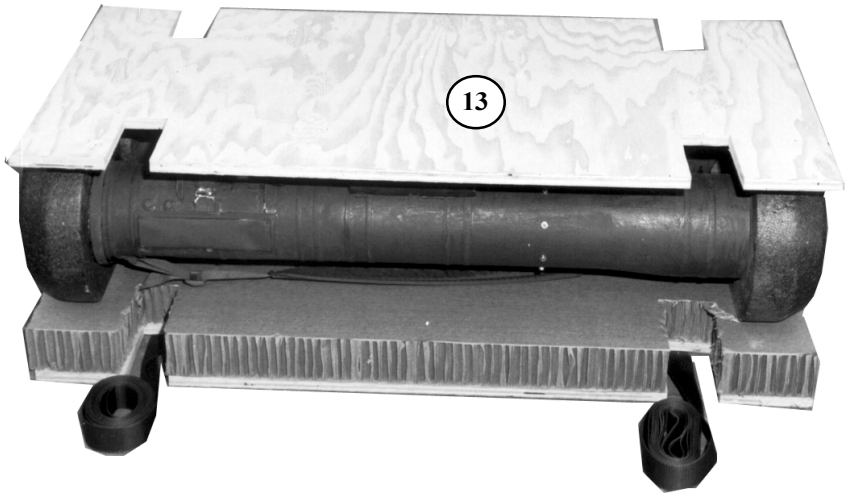
Figure 6-4. Four-round A-7A door bundle prepared (continued)



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 face inward.

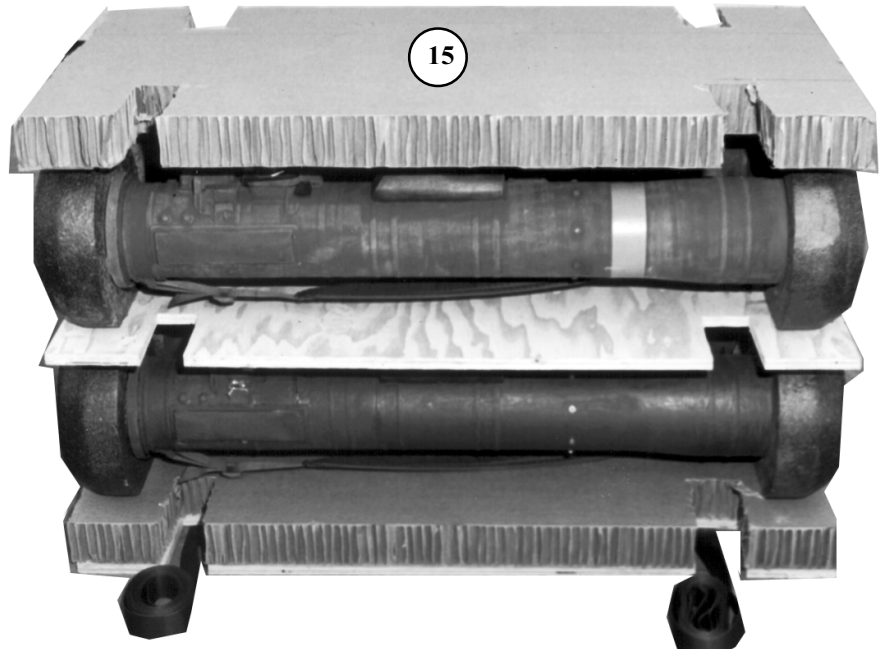
Figure 6-4. Four-round A-7A door bundle prepared (continued)

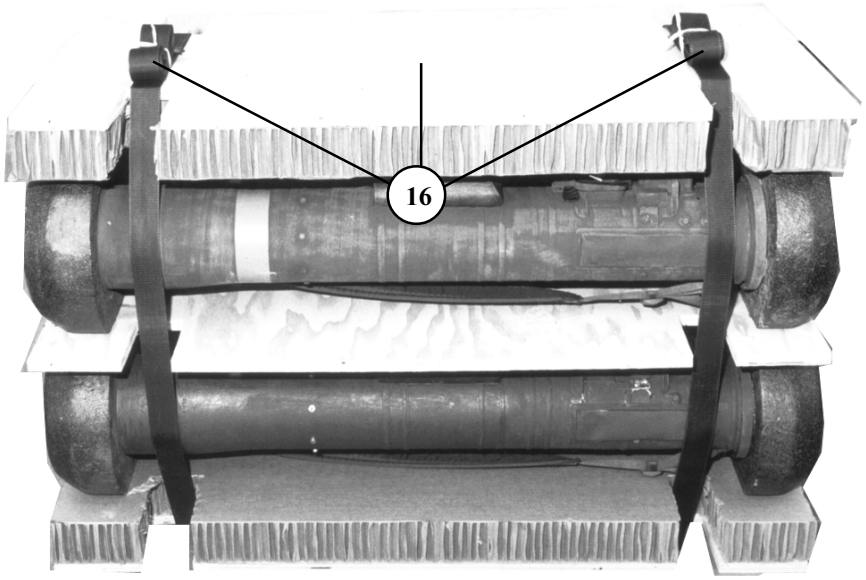


13 Position the other piece of 24 1/4-inch by 47-inch plywood with the cutouts evenly on top of the launch tubes.

14 Position two more rounds on top of the plywood as outlined in step 12.

Figure 6-4. Four-round A-7A door bundle prepared (continued)

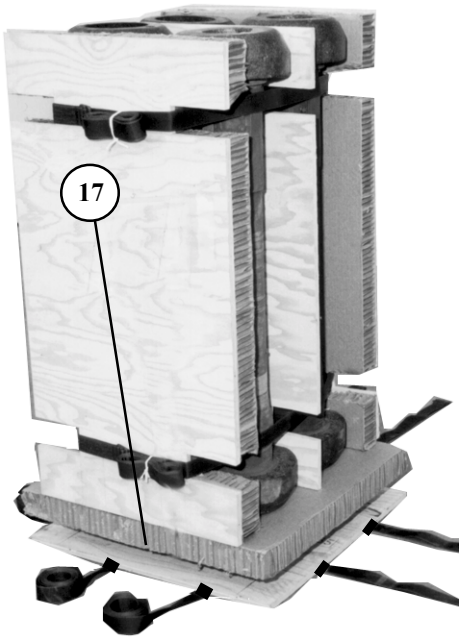


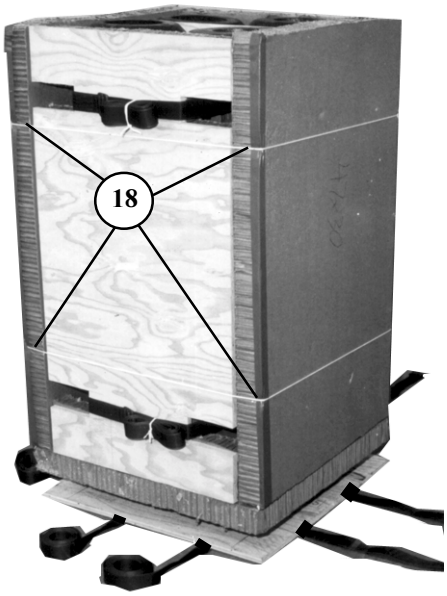


15 Position a piece of 24 1/4-inch by 47-inch honeycomb with the cutouts evenly on top of the launch top.

16 Position and glue the matching piece of plywood on top of the honeycomb. Secure the A-7A straps.

Figure 6-4. Four-round A-7A door bundle prepared (continued)

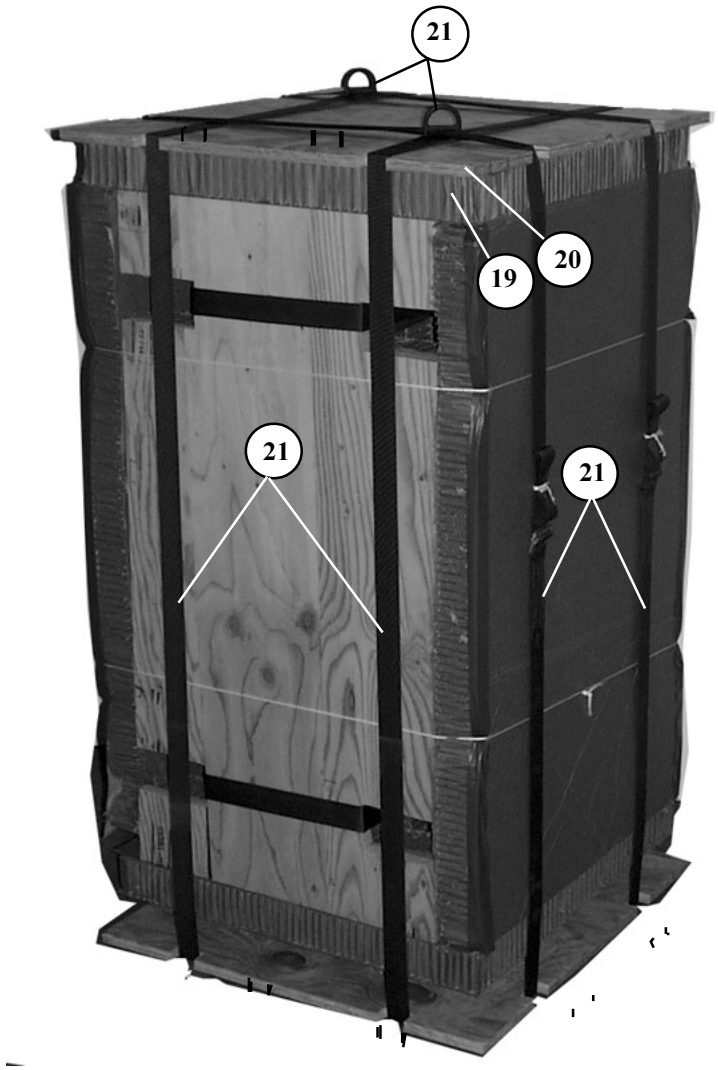




17 Using the materials from steps 7 through 9 as a base, position the materials from steps 10 through 16 on one end centered on the base.

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 6-4. Four-round A-7A door bundle prepared (continued)



(19) Position one 29 1/2-inch by 30 1/4-inch piece of honeycomb on top of the load.

(20) Position and glue one 29 1/2-inch by 30 1/4-inch piece of plywood on the honeycomb.

(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 6-4. Four-round A-7A door bundle prepared (continued)

6-8. Attaching Parachute to Load

Attach a T-10 cargo parachute as shown on page 6-10, Figure 6-2 or a G-14 cargo parachute as shown in Figure 6-5.

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 6-5. Parachute attached to load

6-9. Marking Rigged Load

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

6-10. 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 (G-14) 65 1/2 inches (T-10)
Width	37 1/2 inches
Length	44 1/2 inches
Parachute	T-10 or G-14 cargo parachute

Figure 6-6. Javelin four-round A-7A door bundle rigged (G-14 shown)

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
	Parachute:	
1670-00-999-2658	G-14, cargo	1
	or	
No NSN	Canopy, 35-ft diam., T-10 modified for 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
5340-00-360-0560	Suspension web	2
8310-01-102-4478	Thread, cotton, ticket number 8/7	As required
8305-00-268-2411	Webbing, cotton, 1/4-in, 80-lb	As required

Section III

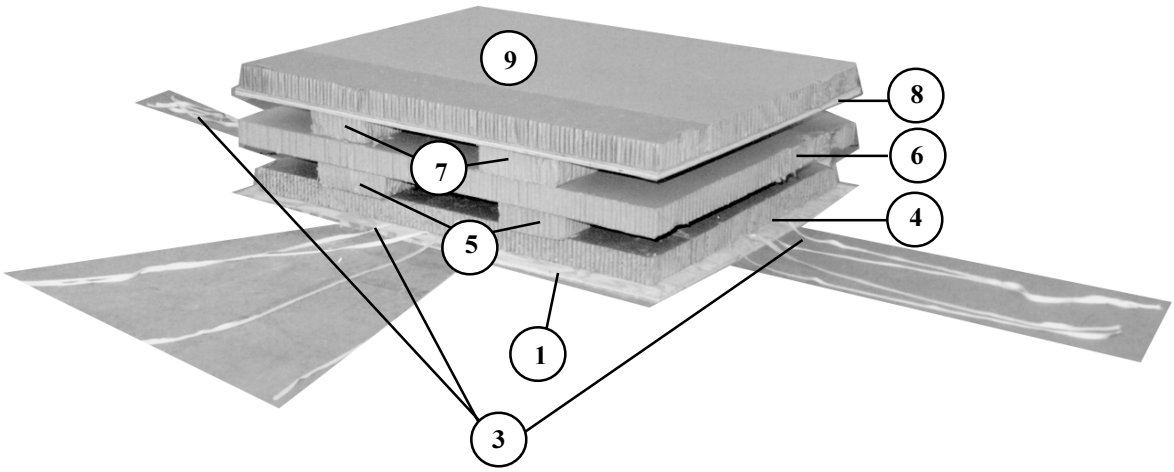
RIGGING NINE-ROUND CDS RIGGED IN AN A-22 STRETCH CONTAINER

6-11. 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.

6-12. 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 6-7.

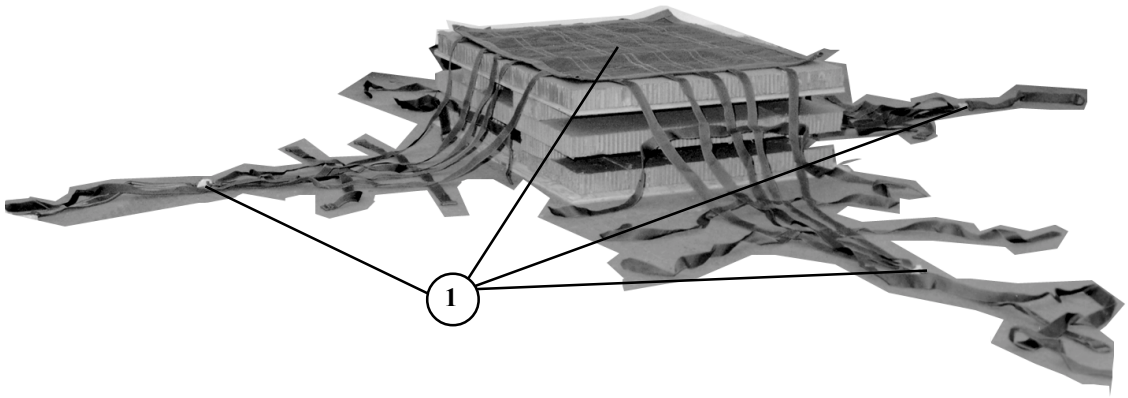


1. Place a 3/4-inch or 1-inch by 48-inch by 60-inch sheet of plywood on a flat surface.
2. Drill sixteen 1/2 inch holes according to FM 10-500-3/TO 13C7-1-11.
3. Cut eight, 8-foot lengths of 1/2-inch tubular nylon webbing and route one length through a set of holes according to FM 10-500-3/TO 13C7-1-11.
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 6-7. Skidboard, ties and honeycomb prepared and positioned

6-13. 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 6-8.

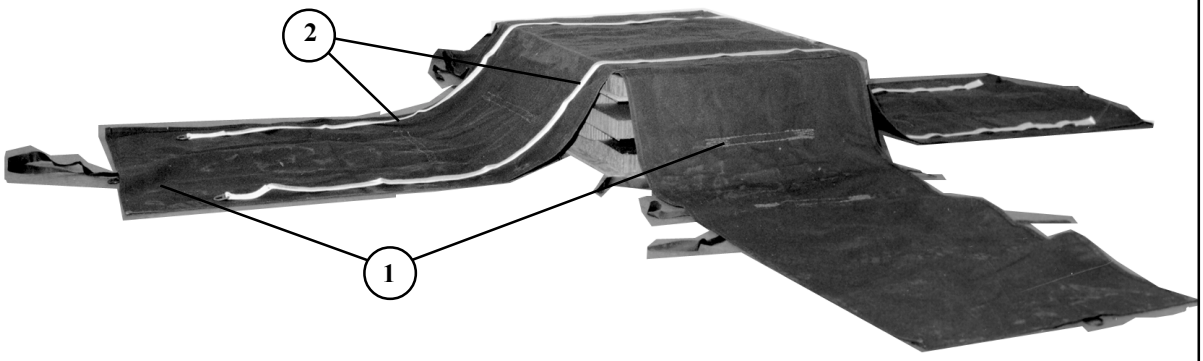


1 Position the sling assemblies and make the appropriate ties according to FM 10-500-3/TO 13C7-1-11.

Figure 6-8. A-22 sling assemblies positioned

6-14. Positioning Covers and A-7A Straps

Position two covers and two A-7A straps on top of the sling assemblies as shown in Figure 6-9.



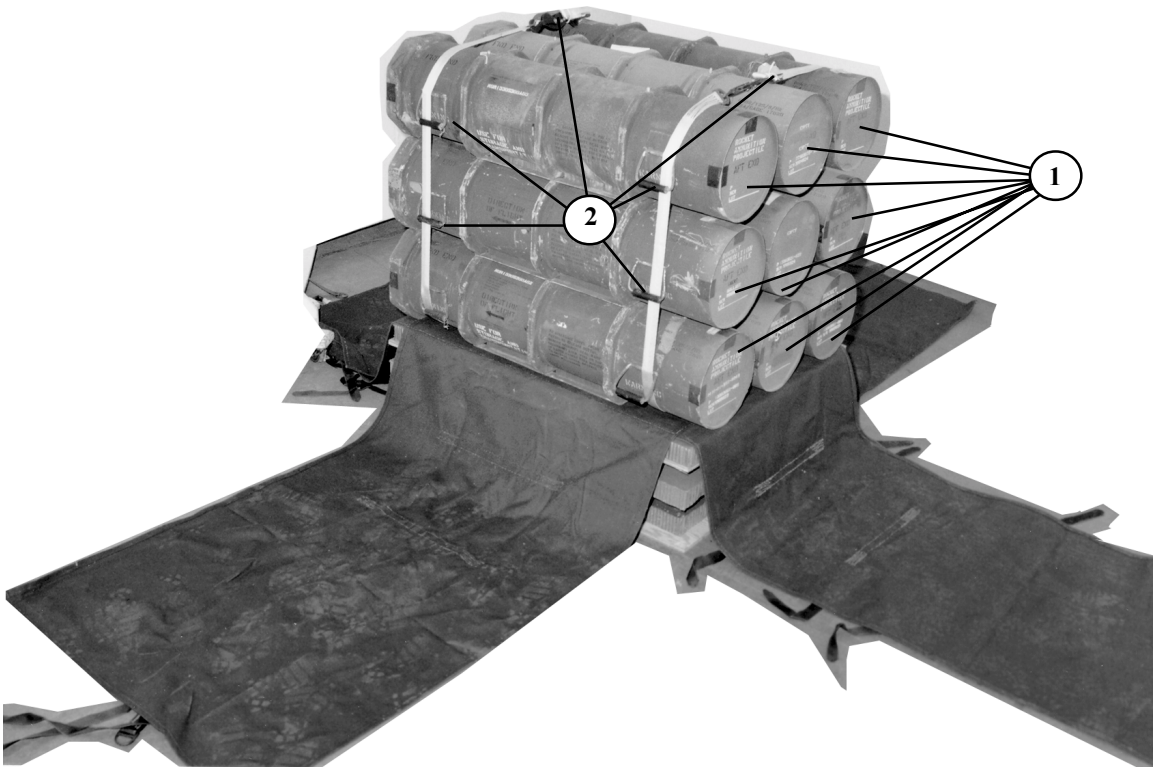
1 Position one cover to the front and the other cover to the rear of the load.

2 Place two tiedown lashings approximately 10 inches from each edge of the 59 inch side.

Figure 6-9. Covers and A-7A straps positioned

6-15. Positioning and Securing Javelin Missiles

Position nine Javelin missiles and secure them as shown in Figure 6-10.



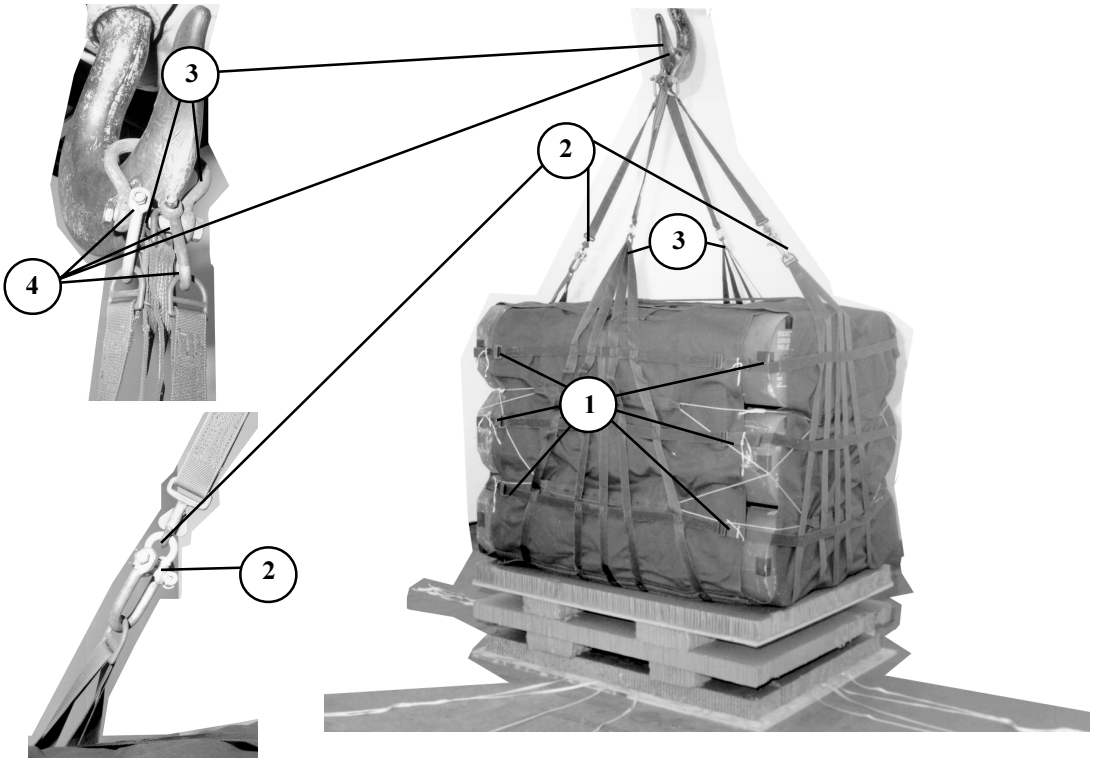
1 Place nine Javelin missiles on the load as shown above.

2 Run the pre-positioned tiedown lashings through the handles of the missiles and secure them on top with a D-ring and loadbinder.

Figure 6-10. Javelin missiles positioned and secured

6-16. 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 6-11.



1 Secure the lateral straps according to FM 10-500-3/TO 13C7-1-11.

Note: Due to the unequal length of this load and in order to balance the slings evenly, it is necessary to use two different sizes of clevises.

2 Attach a type V platform clevis and a G-13 clevis to each D-ring of the A-22 suspension point on the 60-inch side of the load.

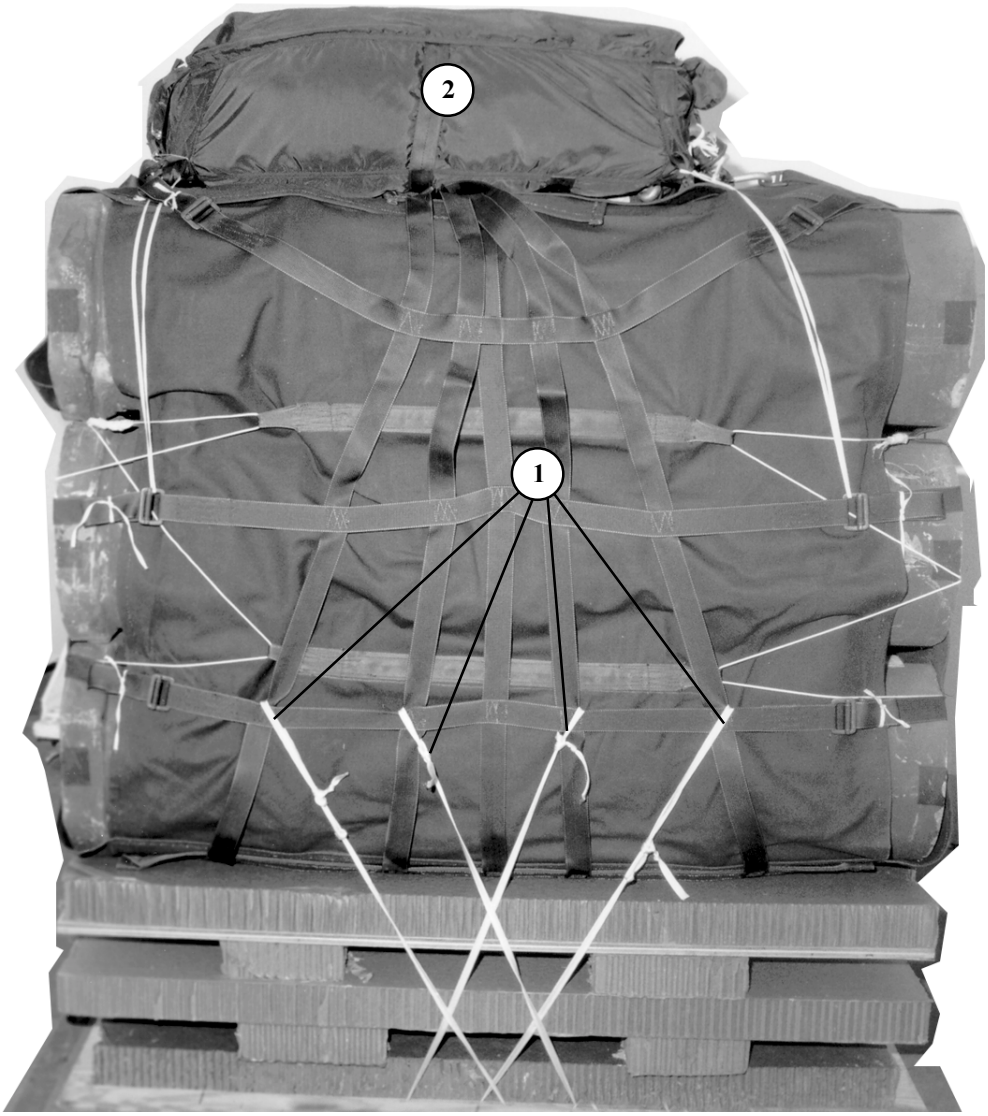
3 On the other connector straps attach a medium clevis.

4 On the other ends of the slings in step 2, attach another type V platform clevis and attach each platform clevis to the medium clevis to keep the slings balanced.

Figure 6-11. Lateral straps secured and suspension slings installed

6-17. 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 6-12.



1 Secure the skid board ties according to FM 10-500-3/TO 13C7-1-11.

2 Install one G-12E cargo parachute according to FM 10-500-3/TO 13C7-1-11.

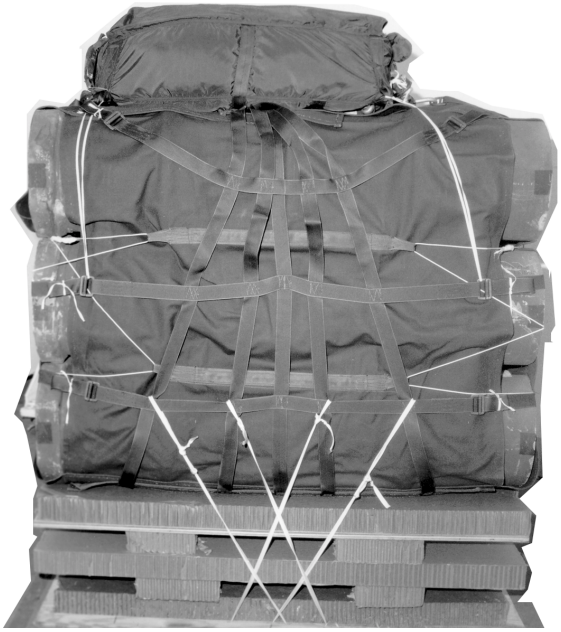
Figure 6-12. Skid board ties secured and parachute installed

6-18. Marking Rigged Load

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

6-19. 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 6-13. 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
	Webbing:	
8305-00-268-2411	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