CHAPTER 11

RIGGING SUPPLY LOADS ON AN 8-FOOT, TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

Section I
RIGGING BULK SUPPLIES

11-1. Description of Load

Bulk supplies consisting of rations, equipment, gasoline, ammunition, or other items of general supply are rigged on an 8-foot, type V platform with one to three G-11A cargo parachutes or one or two G-11B cargo parachutes. All loads will be platform suspended. For extraction purposes, the rigged load must weigh at least 2,520 pounds but no more than 10,500 pounds. Loads may not be more than 94 inches long, 60 inches high (without parachutes), and 100 inches wide. Refer to FM 10-500/TO 13C7-1-5 for the weight limitations for the number of parachutes to be used.

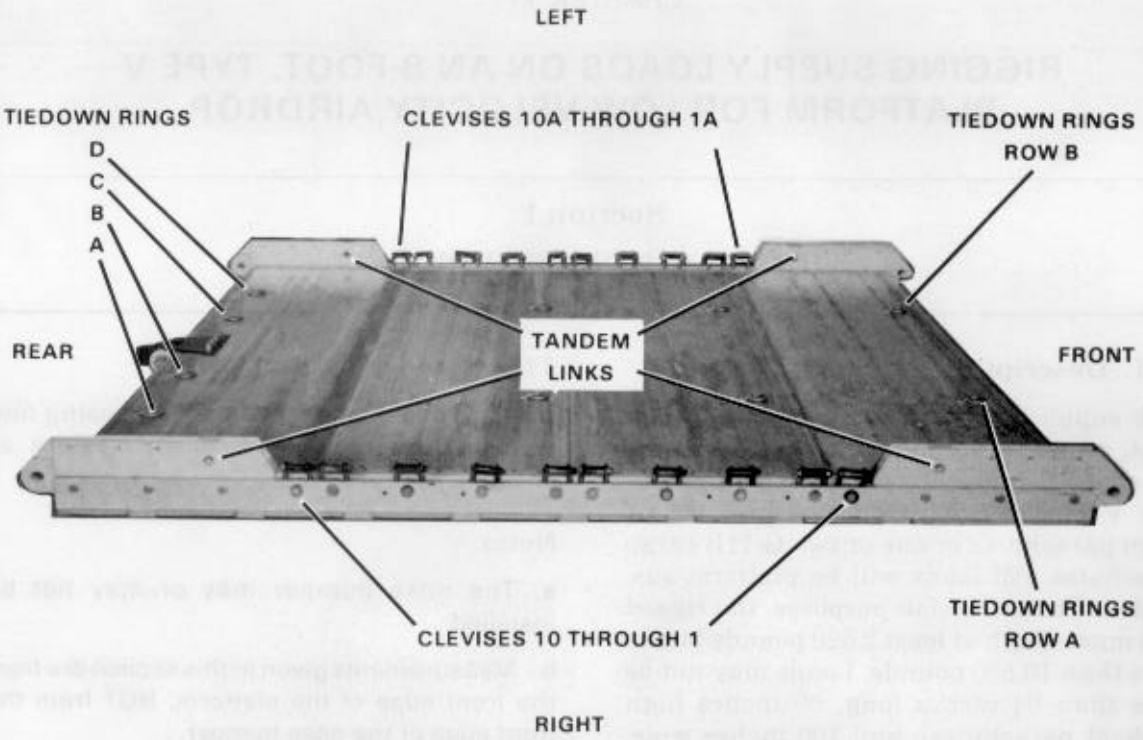
11-2. Preparing Platform

Prepare an 8-foot, type V platform using four tandem links and 20 tiedown clevises as shown in Figure 11-1.

Notes:

a. The nose bumper may or may not be installed.

b. Measurements given in this section are from the front edge of the platform, NOT from the front edge of the nose bumper.



Step:

1. Inspect, or assemble and inspect, the platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link on the rear of each platform side rail using holes 14, 15, and 16.
4. Starting at the front of each platform side rail, install clevises on each platform side rail using the bushings bolted on holes 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13.
5. Starting at the front of the platform, number the clevises bolted to the right side from 1 through 10.
6. Starting at the front of the platform, number the clevises bolted to the left side from 1A through 10A.
7. Starting at the front of the platform, number the tiedown rings from 1 through 4.
8. Label the rows of tiedown rings on the first three panels A and B from right to left. Label the tiedown rings on the last panel A, B, C, and D from right to left.

Figure 11-1. Platform prepared

11-3. Building and Placing Honeycomb Stacks

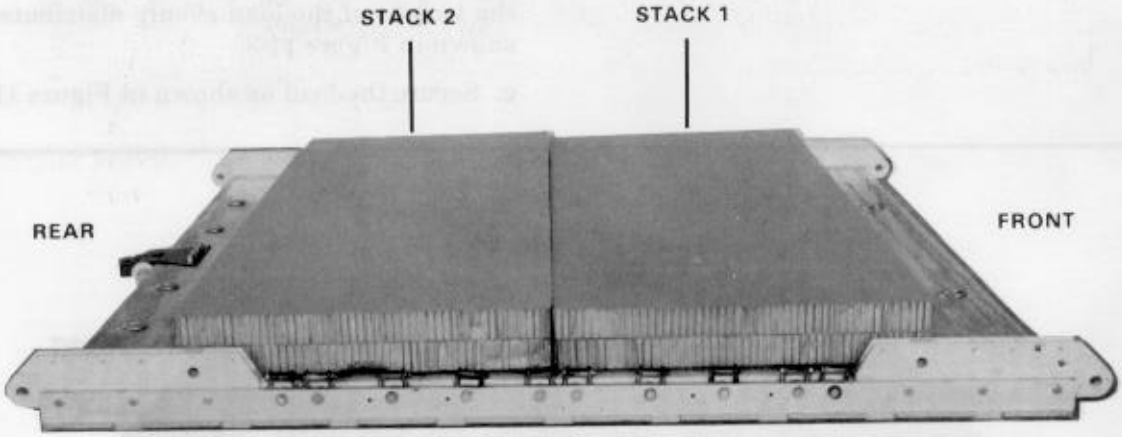
Build two honeycomb stacks and place them on the platform as shown in Figure 11-2.

Notes:

a. Glue the layers of each honeycomb stack together.

b. When ammunition is dropped, two layers of honeycomb are required.

c. When rigging this load for airdrop on a drop zone with ground elevation of 6,000 to 10,000 feet, add another layer of honeycomb to each stack.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	2	96	36	Honeycomb	Center the stack between the side rails with the 96-inch edge 12 inches from the front edge of the platform.
2	2	96	36	Honeycomb	Center the stack between the side rails with the 96-inch edge 12 inches from the rear edge of the platform.

Figure 11-2. Honeycomb stacks prepared and positioned

11-4. Positioning and Securing Load

CAUTION

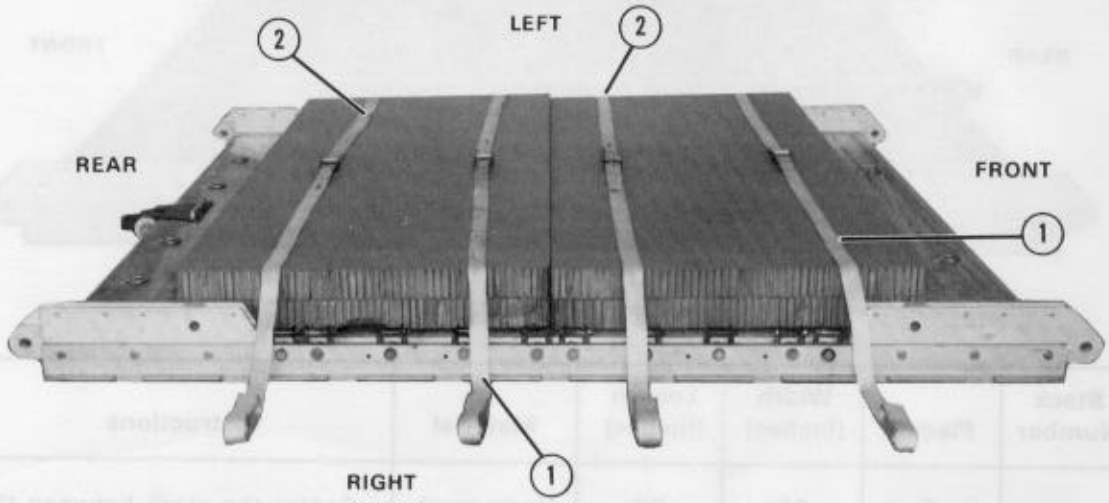
Only ammunition listed in FM 10-553/TO 13C7-18-41 may be airdropped. Hazardous material must be packaged, marked, and labeled as required by AFR 71-4/TM 38-250.

Position and secure the load as described below.

a. Form four 30-foot tiedown straps. Lay two 30-foot straps across each honeycomb stack as shown in Figure 11-3.

b. Position the load on the honeycomb with the weight of the load evenly distributed as shown in Figure 11-3.

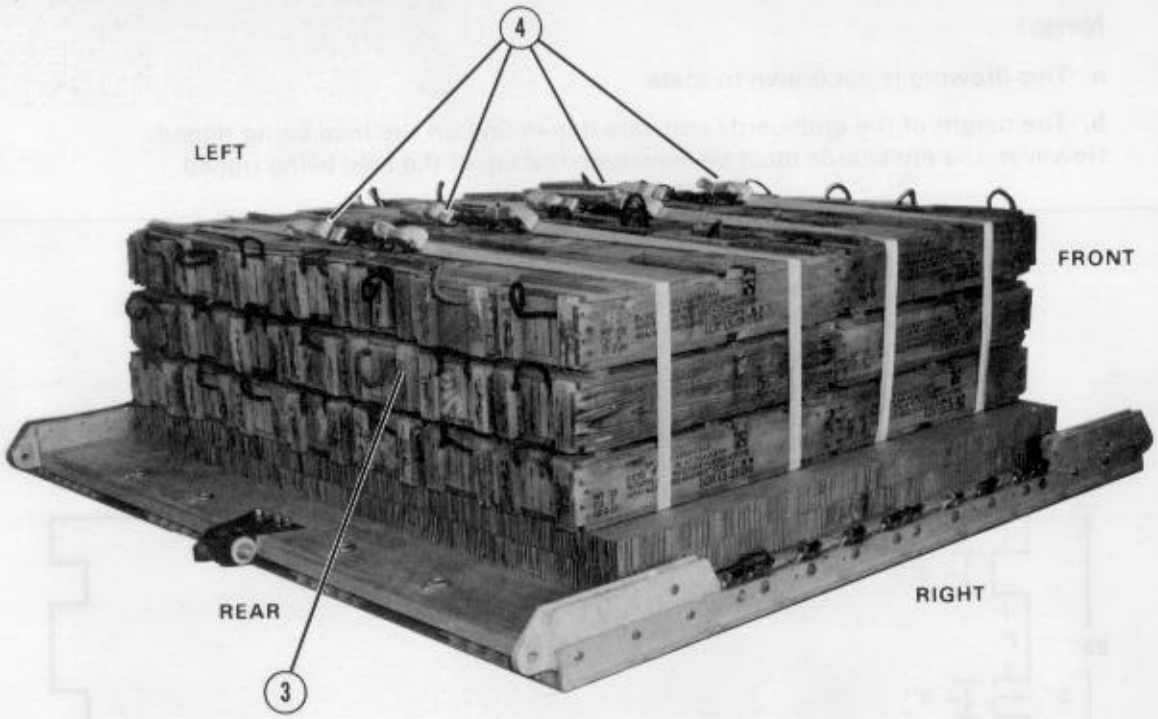
c. Secure the load as shown in Figure 11-3.



(1) Place a 30-foot tiedown strap across the 36-inch edges of honeycomb stacks 1 and 2, 6 inches from the front edge.

(2) Place a 30-foot tiedown strap across the 36-inch edges of honeycomb stacks 1 and 2, 6 inches from the rear edge.

Figure 11-3. Load positioned and secured



(3) Position the load on the honeycomb as shown.

Note: If the load differs from the one shown, adapt the procedures shown and position the load.

(4) Pass both ends of each 30-foot tiedown strap to the top of the load. Secure the ends of each strap with two D-rings and a load binder.

Figure 11-3. Load positioned and secured (continued)

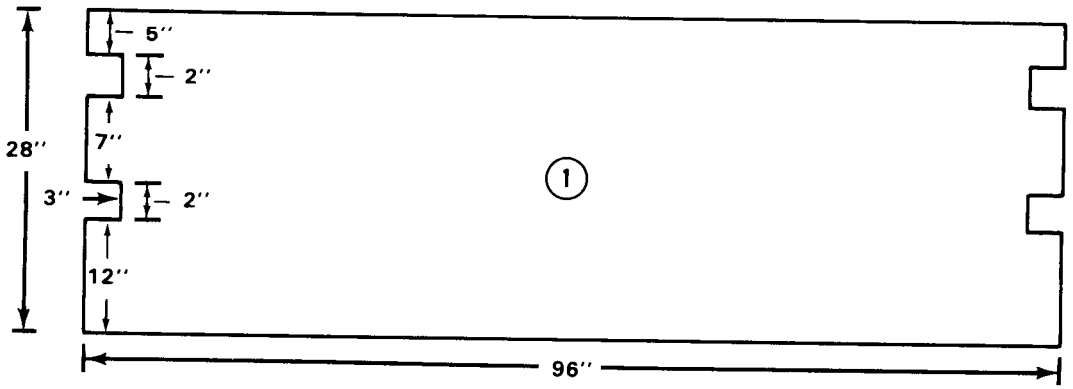
11-5. Constructing and Installing Endboards

Construct the endboards as shown in Figure 11-4. Install the endboards as shown in Figure 11-4.

Notes:

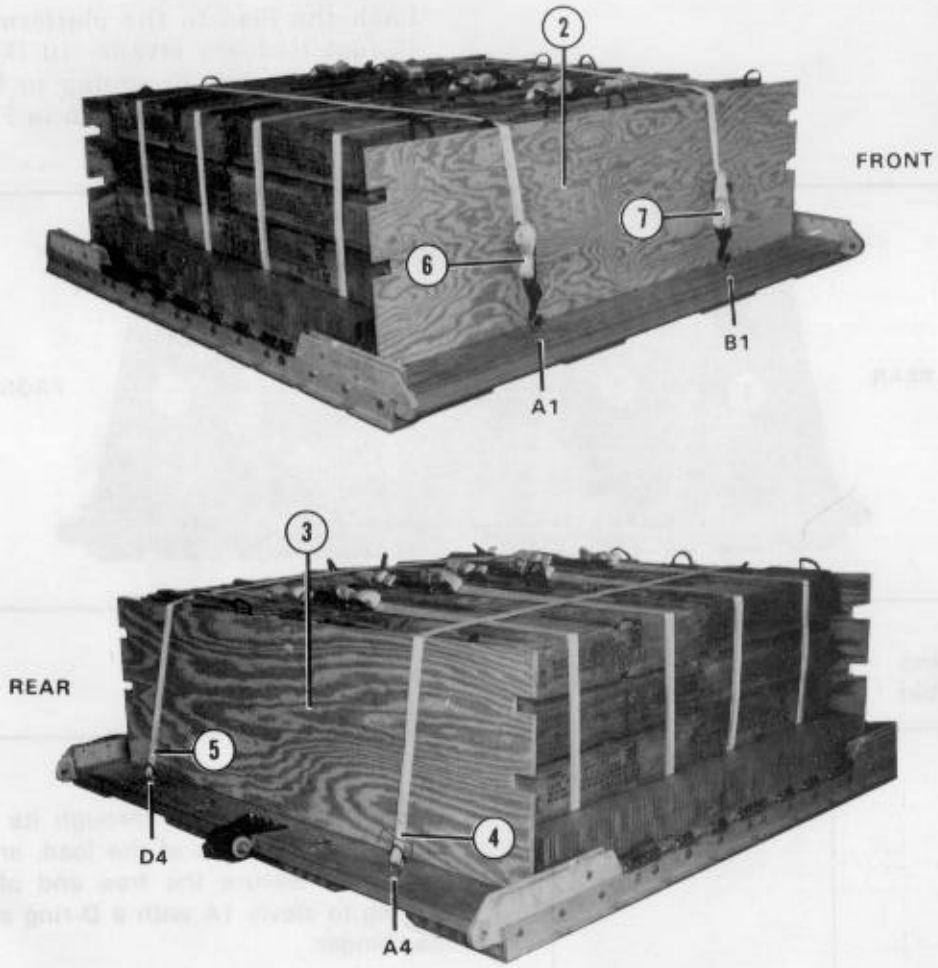
a. This drawing is not drawn to scale.

b. The height of the endboards will vary depending on the load being rigged. However, the endboards must be even with the top of the load being rigged.



(1) Construct endboards using two 3/4- by 28- by 96-inch pieces of plywood. Make cutouts as shown above.

Figure 11-4. Endboards constructed and installed



(2) Place one endboard against the front of the load.

(3) Place one endboard against the rear of the load.

(4) Pass the free end of a 15-foot tiedown strap through tiedown ring A4 and through its own D-ring. Pull the free end of the strap over the top of the load.

(5) Pass the free end of a 15-foot tiedown strap through tiedown ring D4 and through its own D-ring. Pull the free end of the strap over the top of the load.

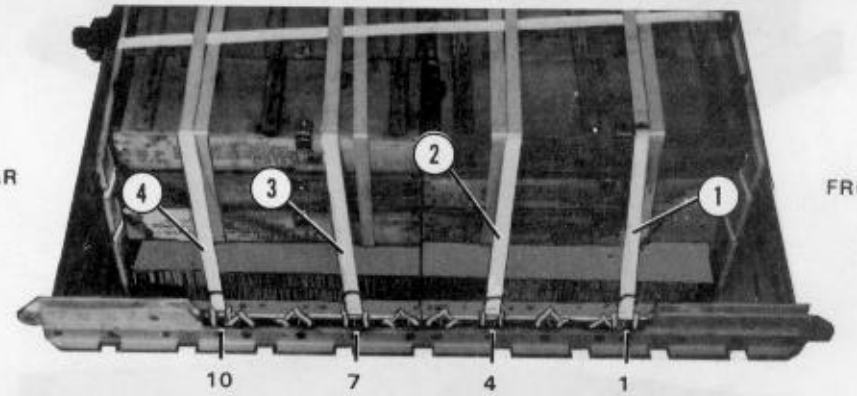
(6) Secure the end of the tiedown strap positioned in step 4 to tiedown ring A1 with a D-ring and a load binder.

(7) Secure the end of the tiedown strap positioned in step 5 to tiedown ring B1 with a D-ring and a load binder.

Figure 11-4. Endboards constructed and installed (continued)

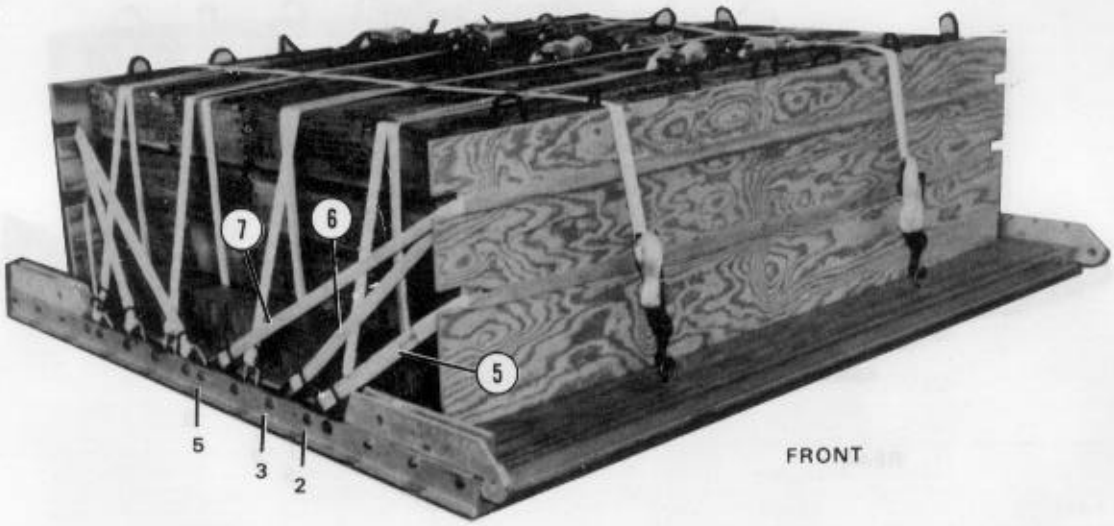
11-6. Installing Lashings

Lash the load to the platform using ten 15-foot tiedown straps, 10 D-rings, and 10 load binders according to FM 10-500/TO 13C7-1-5 and as shown in Figures 11-5, 11-6, and 11-7.



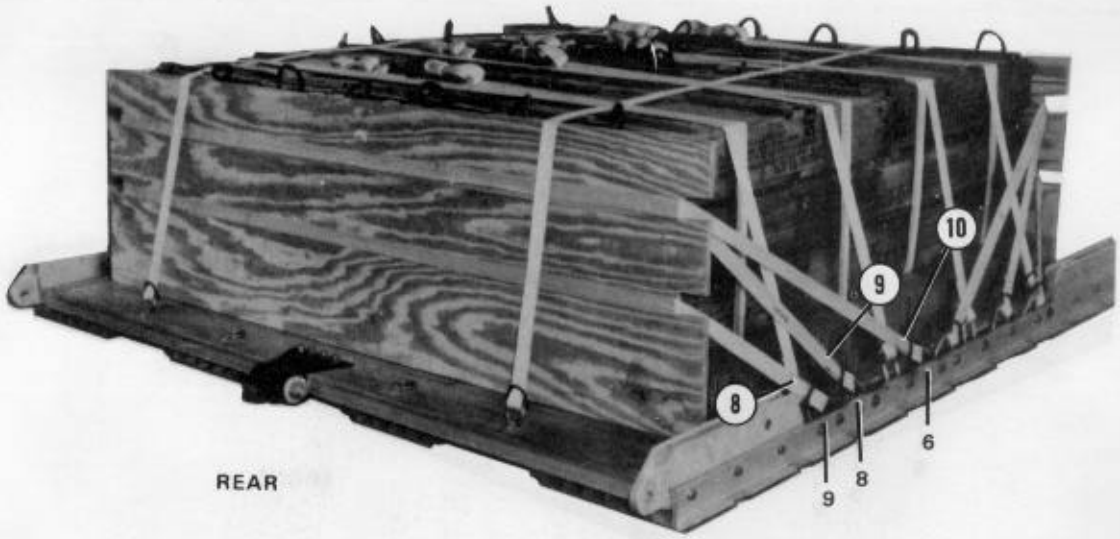
Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
1	1 to 1A	Through clevis 1 and through its own D-ring, over the top of the load, and to clevis 1A. Secure the free end of the lashing to clevis 1A with a D-ring and a load binder.
2	4 to 4A	Through clevis 4 and through its own D-ring, over the top of the load, and to clevis 4A. Secure the free end of the lashing to clevis 4A with a D-ring and a load binder.
3	7 to 7A	Through clevis 7 and through its own D-ring, over the top of the load, and to clevis 7A. Secure the free end of the lashing to clevis 7A with a D-ring and a load binder.
4	10 to 10A	Through clevis 10 and through its own D-ring, over the top of the load, and to clevis 10A. Secure the free end of the lashing to clevis 10A with a D-ring and a load binder.

Figure 11-5. Lashings 1 through 4 installed



Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
5	2 to 2A	Through clevis 2 and through its own D-ring, through the bottom cutouts around the front endboard, and to clevis 2A. Secure the free end of the lashing to clevis 2A with a D-ring and a load binder.
6	3 to 3A	Through clevis 3 and through its own D-ring, through the top cutouts around the front endboard, and to clevis 3A. Secure the free end of the lashing to clevis 3A with a D-ring and a load binder.
7	5 to 5A	Through clevis 5 and through its own D-ring, through the top cutouts around the front endboard, and to clevis 5A. Secure the free end of the lashing to clevis 5A with a D-ring and a load binder.

Figure 11-6. Lashings 5 through 7 installed

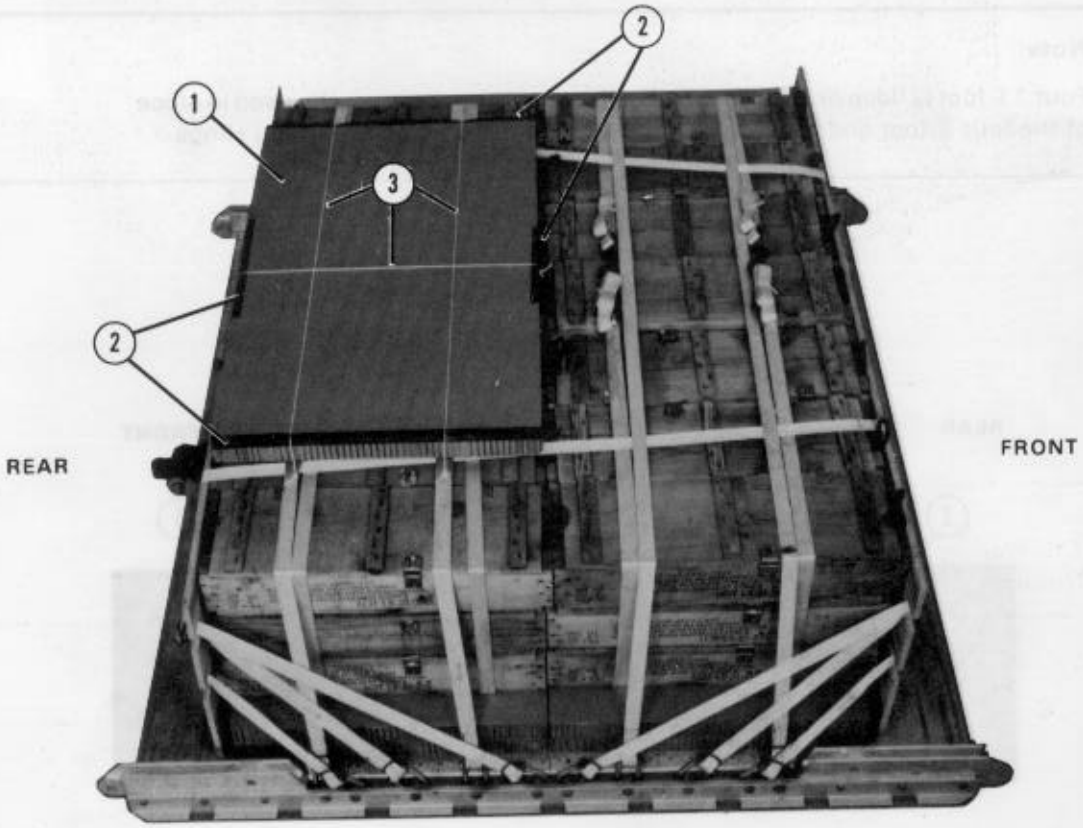


Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
8	9 to 9A	Through clevis 9 and through its own D-ring, through the bottom cutouts around the rear endboard, and to clevis 9A. Secure the free end of the lashing to clevis 9A with a D-ring and a load binder.
9	8 to 8A	Through clevis 8 and through its own D-ring, through the top cutouts around the rear endboard, and to clevis 8A. Secure the free end of the lashing to clevis 8A with a D-ring and a load binder.
10	6 to 6A	Through clevis 6 and through its own D-ring, through the top cutouts around the rear endboard, and to clevis 6A. Secure the free end of the lashing to clevis 6A with a D-ring and a load binder.

Figure 11-7. Lashings 8 through 10 installed

11-7. Installing Parachute Stowage Platform

Install the parachute stowage platform as shown in Figure 11-8.



1. Center a 36- by 60-inch piece of honeycomb on the rear of the load with the 60-inch edge even with the 96-inch edge of the endboard.
2. Tape the edges of the honeycomb.
3. Tie the honeycomb in place to convenient points on top of the load with three ties of type III nylon cord.

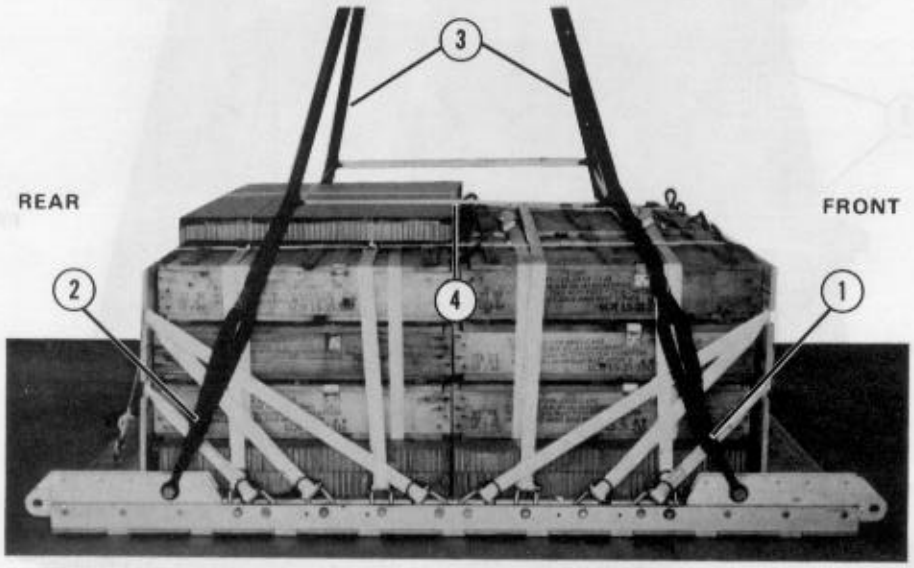
Figure 11-8. Parachute stowage platform installed

11-8. Installing Suspension Slings and Deadman's Tie

Install the suspension slings as shown in Figure 11-9 using four 3-foot (3-loop) and four 9-foot (3-loop), type X nylon webbing slings or four 3-foot (2-loop) and four 9-foot (2-loop), type XXVI nylon webbing slings and four large suspension clevis assemblies. Install the deadman's tie as shown in Figure 11-9.

Note:

Four 11-foot (2-loop or 3-loop), type X nylon webbing slings can be used in place of the four 3-foot and four 9-foot, type X or type XXVI nylon webbing slings.

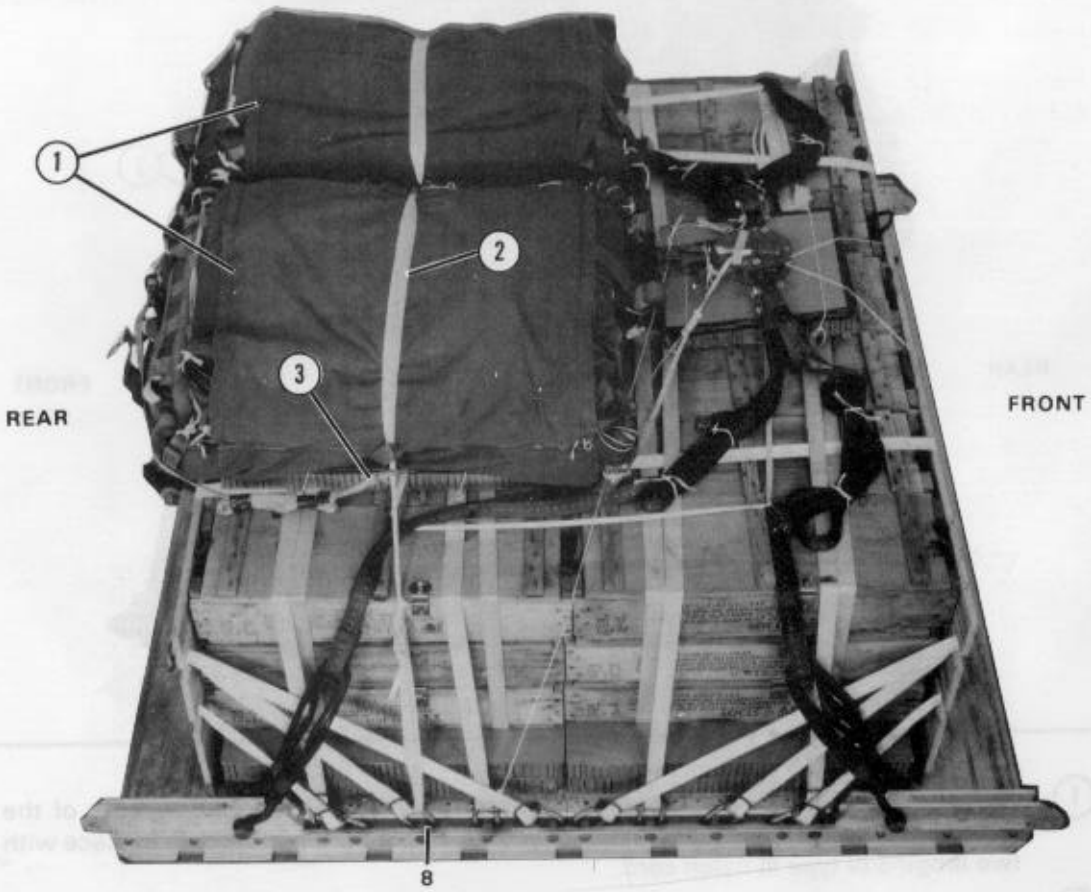


1. Pass one end of a 3-foot sling through the loop of a 9-foot sling. Even the ends of the 3-foot sling, and place the two ends on the bell portion of a large clevis. Bolt the clevis to the suspension point of the right front tandem link.
2. Form a second suspension sling as described in step 1. Bolt the large clevis to the suspension point of the right rear tandem link.
3. Form a third and fourth suspension sling as described in step 1. Bolt one sling to the left front and one sling to the left rear tandem links.
4. Install the deadman's tie according to FM 10-500/TO 13C7-1-5.

Figure 11-9. Suspension slings and deadman's tie installed

11-9. Installing Parachutes

Compute the parachute requirements for the load being rigged. Select the correct number of G-11A or G-11B cargo parachutes. The load in Figure 11-10 shows two G-11A cargo parachutes. Install the parachutes as shown in Figure 11-10.

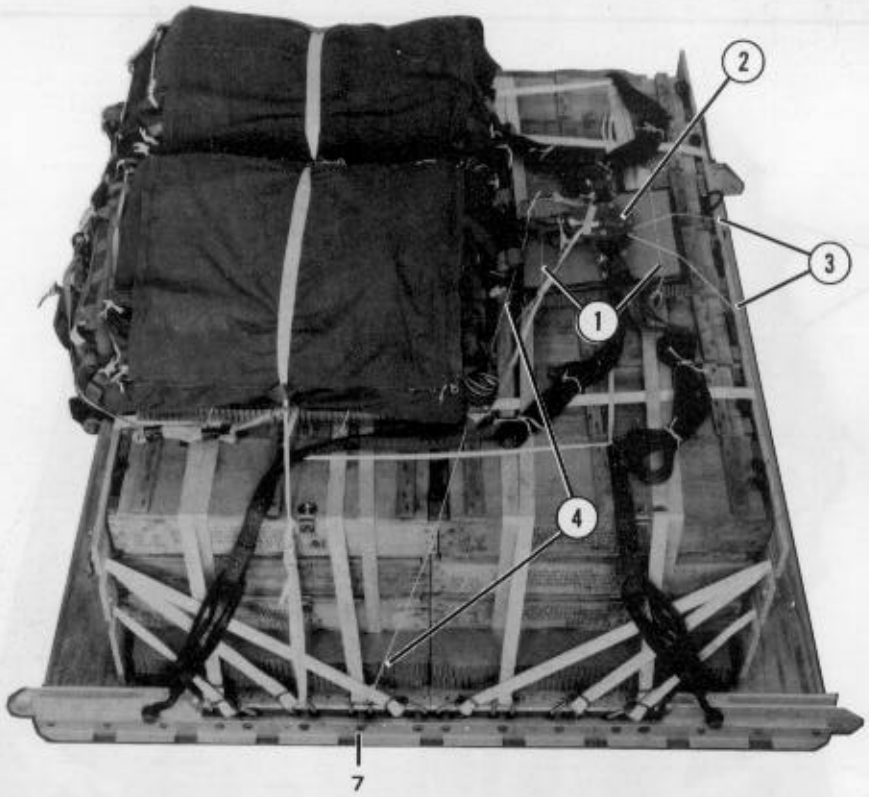


1. Prepare two G-11A cargo parachutes according to FM 10-500/TO 13C7-1-5. Place the parachutes on the parachute stowage platform.
2. Install a 10-yard, type VIII nylon webbing parachute restraint strap according to FM 10-500/TO 13C7-1-5. Secure the parachute restraint strap to clevises 8 and 8A.
3. Install a parachute release strap according to FM 10-500/TO 13C7-1-5.

Figure 11-10. Parachutes installed

11-10. Installing Release System

Install and safety an M-1 cargo parachute release assembly as shown in Figure 11-11.



(1) Center an 18- by 20-inch piece of honeycomb on top of the load in front of the parachutes. Tape the edges of the honeycomb. Secure the honeycomb in place with two lengths of type III nylon cord.

(2) Prepare and install an M-1 cargo parachute release assembly according to FM 10-500/TO 13C7-1-5. Center the release assembly on the 18- by 20-inch piece of honeycomb.

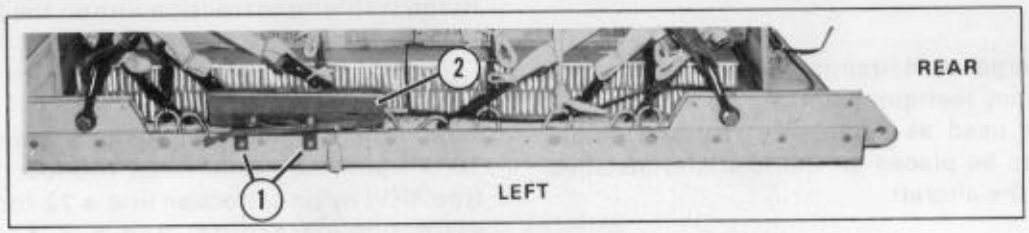
(3) Secure the bottom of the release assembly with type III nylon cord. Make the tie according to FM 10-500/TO 13C7-1-5, and secure the ends of the tie to tiedown rings A1 and B1.

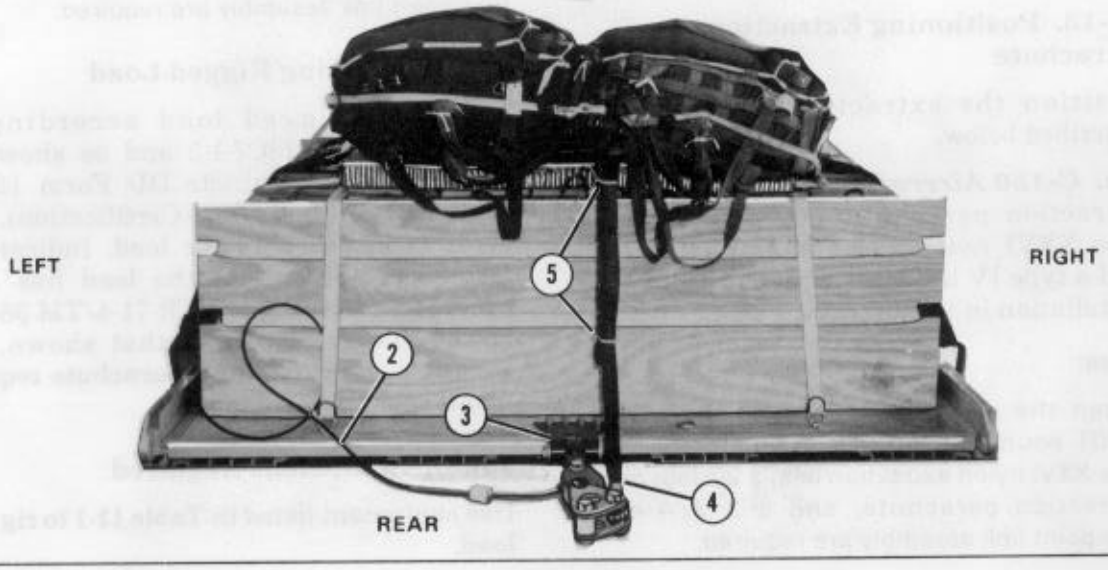
(4) Secure the top of the release assembly with type III nylon cord. Make the tie according to FM 10-500/TO 13C7-1-5, and secure the ends of the tie to clevises 7 and 7A.

Figure 11-11. Release assembly installed

11-11. Installing Extraction System

Install the EFTC extraction system as shown in Figure 11-12.





1. Attach the type V EFTA mounting brackets to the front mounting holes in the left platform rail.
2. Install the actuator (with a 12-foot release cable) to the EFTA mounting brackets according to FM 10-500/TO 13C7-1-5.
3. Use a 5 1/2-inch latch assembly adapter, and attach the latch assembly to the extraction bracket according to FM 10-500/TO 13C7-1-5 with the locking nut hole facing toward the left side of the platform.
4. Connect one end of a 9-foot (3-loop), type X or a 9-foot (2-loop), type XXVI nylon webbing sling (deployment line) to the right spacer of the link assembly. Connect the free end of the deployment line to the center large suspension clevis on the parachutes.
5. Fold the excess deployment line, and secure the folds in place with tape or 80-pound cotton webbing.

Figure 11-12. Extraction system installed

11-12. Installing Provisions for Emergency Restraints

Attach a medium (3/4-inch) suspension clevis to the front hole on the front tandem links.

Note:

The emergency restraints will be installed to the emergency restraint points in the aircraft. The clevises used as emergency restraint points may also be placed on the load and installed later in the aircraft.

11-13. Positioning Extraction Parachute

Position the extraction parachute as described below.

a. C-130 Aircraft. Place a 15-foot cargo extraction parachute; a 60-foot (1-loop), type XXVI nylon webbing extraction line; and a type IV link assembly on the load for installation in the aircraft.

Note:

When the rigged load weighs more than 8,001 pounds, a 60-foot (3-loop), type X or type XXVI nylon extraction line; a 22-foot cargo extraction parachute; and a 3 3/4-inch, two-point link assembly are required.

b. C-141 Aircraft. Place a 15-foot cargo extraction parachute with an adapter web and a continuous 160-foot (1-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

Note:

When the rigged load weighs more than 10,001 pounds, a continuous 140-foot (3-loop), type XXVI nylon extraction line; a 22-foot cargo extraction parachute; and a 3 3/4-inch, two-point link assembly are required.

11-14. Marking Rigged Load

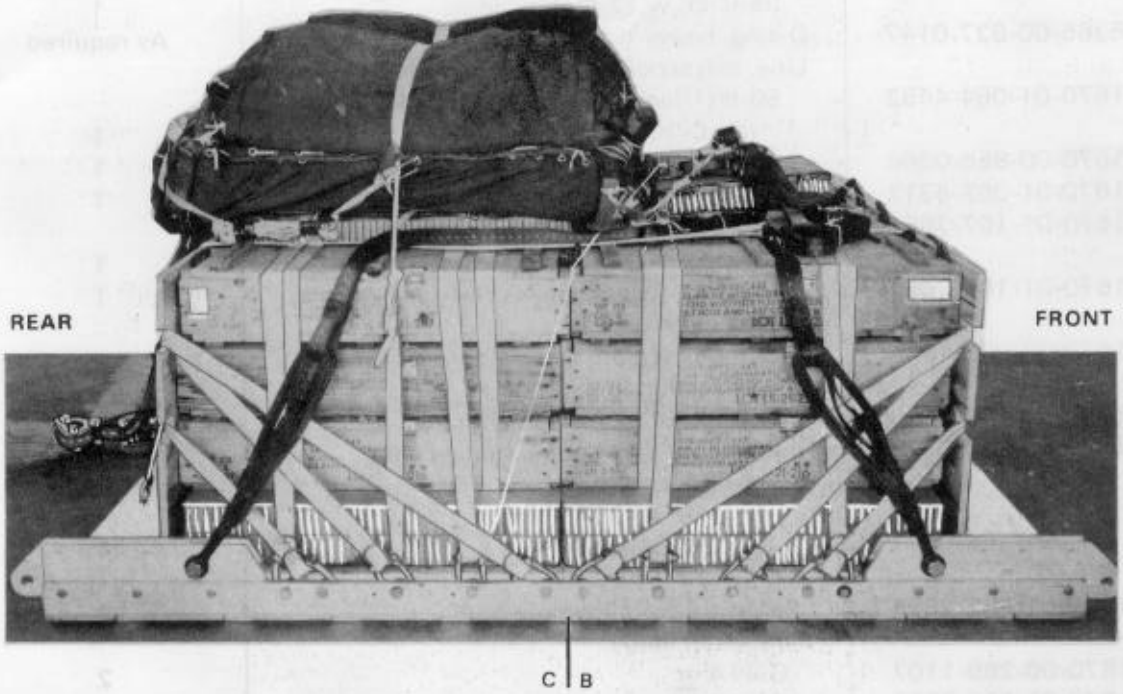
Mark the rigged load according to FM 10-500/TO 13C7-1-5 and as shown in Figure 11-13. Complete DD Form 1387-2 (Special Handling Data/Certification), and securely attach it to the load. Indicate on DD Form 1387-2 that the load has been prepared according to AFR 71-4/TM 38-250. If the load varies from that shown, the weight, height, CB, and parachute requirements must be recomputed.

11-15. Equipment Required

Use equipment listed in Table 11-1 to rig this load.

CAUTION

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



RIGGED LOAD DATA

Weight:	Load shown	6,344 pounds
	Maximum allowable	10,500 pounds
Height		56 inches
Width		108 inches
Length		119 inches
Overhang (Rear)		18 inches
CB (from front edge of platform)		50 inches
Extraction system (shown)		EFTC

Figure 11-13. Bulk supply load rigged on a type V platform for low-velocity airdrop

Table 11-1. Equipment required for rigging typical supply loads on a type V platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-in (medium)	2
4030-00-090-5354	1-in (large)	4
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer, w 12-foot cable	1
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb	As required
	Line, extraction:	
1670-01-064-4452	60-ft (1-loop), type XXVI nylon webbing (for C-130) or	1
1670-00-856-0266	60-ft (3-loop), type X nylon webbing or	1
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (for C-141) or	1
1670-01-107-7652	160-ft (1-loop), type XXVI nylon webbing	1
	Link assembly:	
1670-00-003-1953	Two-point, plate side, 3 3/4-inch (for extraction line)	1
1670-00-783-5988	Type IV (for extraction line)	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3- by 36- by 96-in:	5 sheets
	18- by 20-in	(1)
	36- by 60-in	(1)
	36- by 96-in	(4)
1670-01-183-2678	Leaf, extraction line (line bag)	2
	Parachute, cargo:	
1670-00-269-1107	G-11A or	2
1670-01-016-7841	G-11B	1
	Parachute, cargo extraction:	
1670-00-052-1548	15-ft or	1
1670-01-063-3715	15-ft (new)	1
1670-00-687-5458	22-ft or	1
1670-01-063-3716	22-ft (new)	1
	Platform, AD, type V, 8-ft:	
	Bracket:	
1670-01-162-2375	Inside EFTA	1
1670-01-162-2374	Outside EFTA	1
1670-01-162-2385	Bumper, nose	1
1670-01-162-2372	Clevis, load tiedown	20
1670-01-162-2381	Tandem link	4
5530-00-128-4981	Plywood, 3/4-in	2 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 11-1. Equipment required for rigging typical supply loads on a type V platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
	Sling, cargo, airdrop:	
1670-00-753-3788	3-ft (3-loop), type X nylon webbing or	4
1670-01-062-6301	3-ft (2-loop), type XXVI nylon webbing	4
1670-00-753-3631	9-ft (3-loop), type X nylon webbing or	4
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	4
1670-00-753-3791	11-ft (2-loop), type X nylon webbing or	4
1670-00-823-5040	11-ft (3-loop), type X nylon webbing	4
1670-00-753-3794	20-ft (2-loop), type X nylon webbing (riser extensions) or	2
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tiedown assembly, 15-ft	12
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb, natural	As required
8305-00-263-3591	Nylon, type VIII, 3,600-lb	As required

Section II

RIGGING BULK SUPPLIES IN A-22 CARGO BAGS

11-16. Description of Load

This section shows and tells how to rig bulk supplies in four A-22 cargo bags. The A-22 cargo bags are positioned on an 8-foot, type V platform.

11-17. Preparing Platform

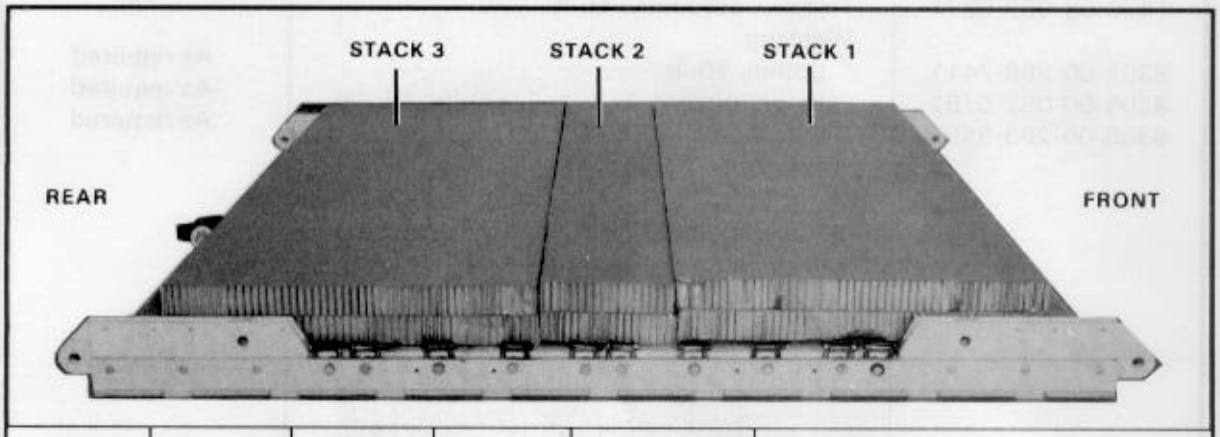
Prepare an 8-foot, type V platform as described in paragraph 11-2 and as shown in Figure 11-1.

11-18. Building and Placing Honeycomb Stacks

Build the honeycomb stacks and place them on the platform as shown in Figure 11-14.

Note:

When rigging this load for airdrop on a drop zone with ground elevation of 6,000 to 10,000 feet, add another layer of honeycomb to each stack.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	2	96	36	Honeycomb	Center the stack between the side rails with the 96-inch edge 5 inches from the front edge of the platform.
2	2	96	13	Honeycomb	Center the stack between the side rails with the 96-inch edge flush against stack 1.
3	2	96	36	Honeycomb	Center the stack between the side rails with the 96-inch edge flush against stack 2.

Figure 11-14. Honeycomb stacks prepared and positioned

11-19. Stowing Load in A-22 Cargo Bags

CAUTION

Only ammunition listed in FM 10-553/TO 13C7-18-41 may be airdropped. Hazardous material must be packaged, marked, and labeled as required by AFR 71-4/TM 38-250.

Prepare, stow, and rig the load in four A-22 cargo bags according to FM 10-501/TO 13C7-1-11 with the following exceptions:

a. Do NOT prepare and install the skid.

b. Do NOT install the parachutes on the A-22 cargo bags.

11-20. Positioning Load

Position the four A-22 cargo bags on the honeycomb stacks as shown in Figure 11-15.

11-21. Installing Lashings

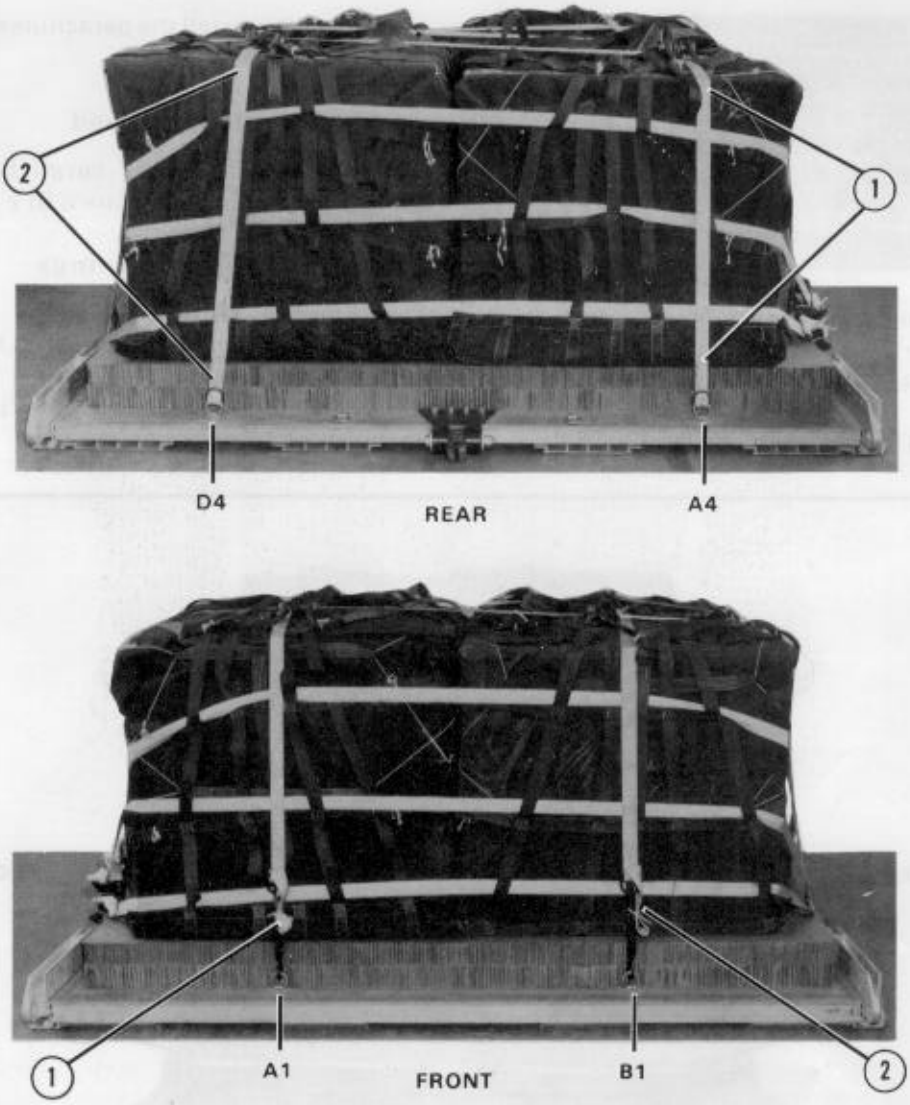
Use twelve 15-foot tiedown straps, 12 D-rings, and 12 load binders. Lash the load to the platform according to FM 10-500/TO 13C7-1-5 and as shown in Figures 11-16 through 11-19.

(1) Bolt a medium cargo suspension clevis to the suspension webs of each A-22 cargo bag to lift them.

(2) Position two A-22 cargo bags on top of honeycomb stacks 1 and 2, side by side, and even with the front edge of stack 1.

(3) Position two A-22 cargo bags on top of honeycomb stacks 2 and 3, side by side, and even with the rear edge of stack 3.

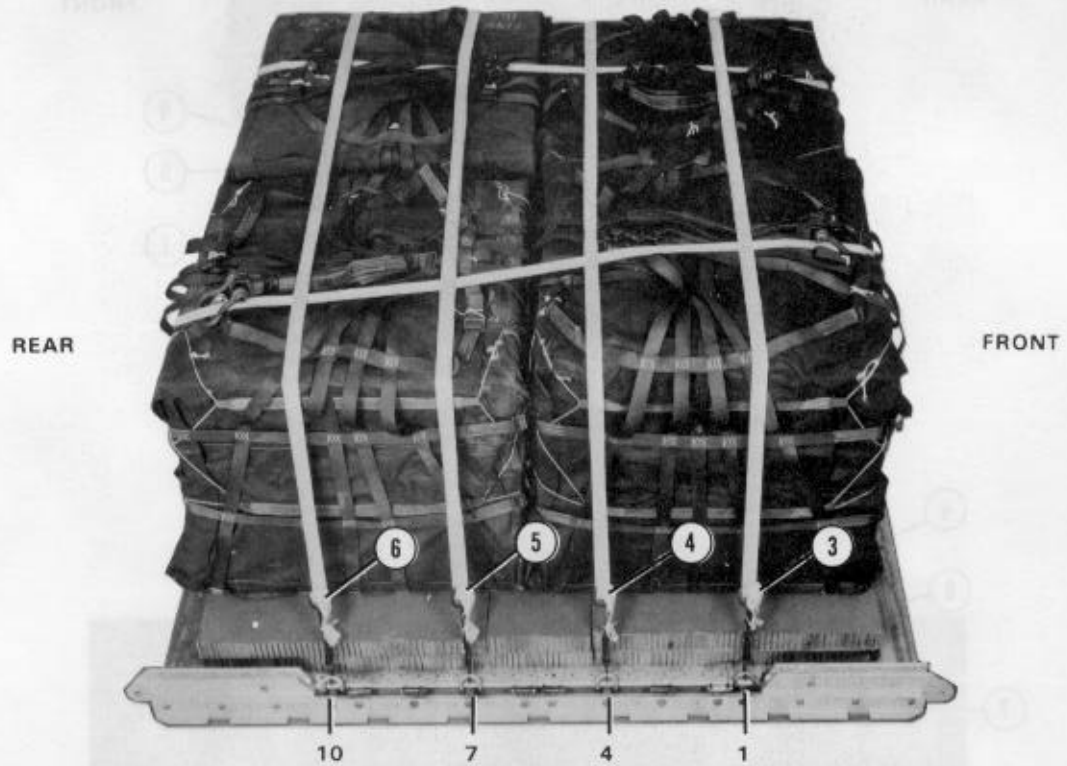
Figure 11-15. Load positioned



(1) Pass the free end of a 15-foot tiedown strap through tiedown ring A4 and through its own D-ring. Pass the free end of the strap through the medium cargo suspension clevises on the right of the load and to tiedown ring A1. Secure the free end of the strap to tiedown ring A1 with a D-ring and a load binder.

(2) Pass the free end of a 15-foot tiedown strap through tiedown ring D4 and through its own D-ring. Pass the free end of the strap through the medium cargo suspension clevises on the left of the load and to tiedown ring B1. Secure the free end of the strap to tiedown ring B1 with a D-ring and a load binder.

Figure 11-16. Lashings 1 and 2 installed



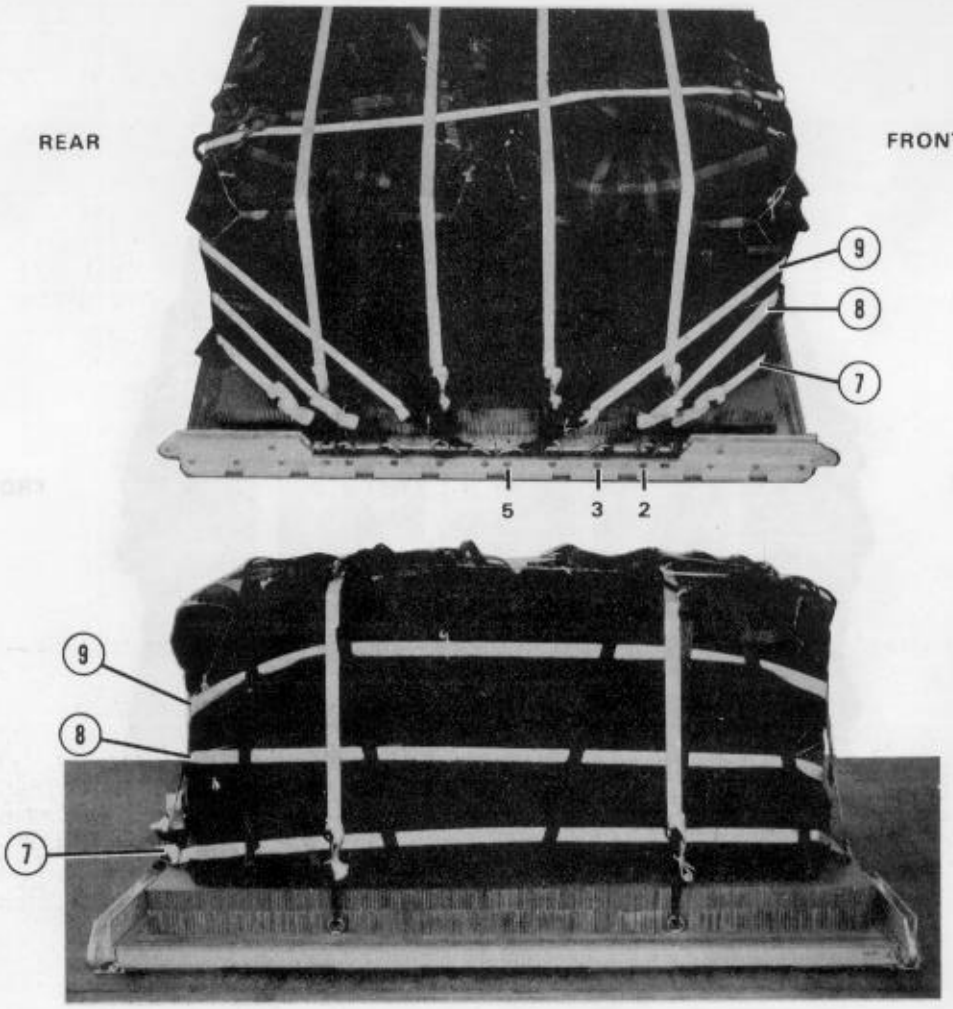
(3) Pass the free end of a 15-foot tiedown strap through clevis 1A and through its own D-ring. Pass the free end of the strap over the top of the load to clevis 1. Secure the free end of the strap to clevis 1 with a D-ring and a load binder.

(4) Pass the free end of a 15-foot tiedown strap through clevis 4A and through its own D-ring. Pass the free end of the strap over the top of the load to clevis 4. Secure the free end of the strap to clevis 4 with a D-ring and a load binder.

(5) Pass the free end of a 15-foot tiedown strap through clevis 7A and through its own D-ring. Pass the free end of the strap over the top of the load to clevis 7. Secure the free end of the strap to clevis 7 with a D-ring and a load binder.

(6) Pass the free end of a 15-foot tiedown strap through clevis 10A and through its own D-ring. Pass the free end of the strap over the top of the load to clevis 10. Secure the free end of the strap to clevis 10 with a D-ring and a load binder.

Figure 11-17. Lashings 3 through 6 installed

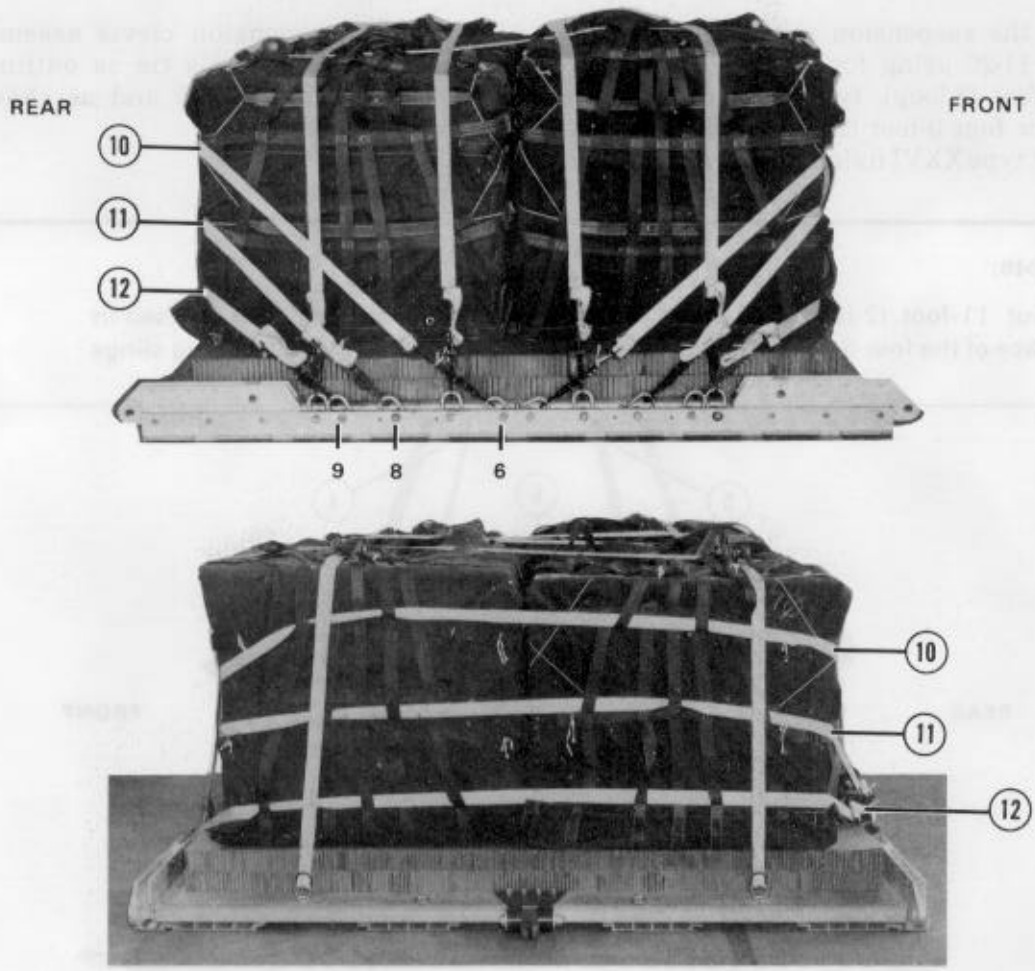


(7) Pass the free end of a 15-foot tiedown strap through clevis 2A and through its own D-ring. Pass the free end of the strap around the front of the load (through the webbing of the A-22 cargo assembly) to clevis 2. Secure the free end of the strap to clevis 2 with a D-ring and a load binder.

(8) Pass the free end of a 15-foot tiedown strap through clevis 3A and through its own D-ring. Pass the free end of the strap around the front of the load (through the webbing of the A-22 cargo assembly) to clevis 3. Secure the free end of the strap to clevis 3 with a D-ring and a load binder.

(9) Pass the free end of a 15-foot tiedown strap through clevis 5A and through its own D-ring. Pass the free end of the strap around the front of the load (through the webbing of the A-22 cargo assembly) to clevis 5. Secure the free end of the strap to clevis 5 with a D-ring and a load binder.

Figure 11-18. Lashings 7 through 9 installed



(10) Pass the free end of a 15-foot tiedown strap through clevis 6A and through its own D-ring. Pass the free end of the strap around the rear of the load (through the webbing of the A-22 cargo assembly) to clevis 6. Secure the free end of the strap to clevis 6 with a D-ring and a load binder.

(11) Pass the free end of a 15-foot tiedown strap through clevis 8A and through its own D-ring. Pass the free end of the strap around the rear of the load (through the webbing of the A-22 cargo assembly) to clevis 8. Secure the free end of the strap to clevis 8 with a D-ring and a load binder.

(12) Pass the free end of a 15-foot tiedown strap through clevis 9A and through its own D-ring. Pass the free end of the strap around the rear of the load (through the webbing of the A-22 cargo assembly) to clevis 9. Secure the free end of the strap to clevis 9 with a D-ring and a load binder.

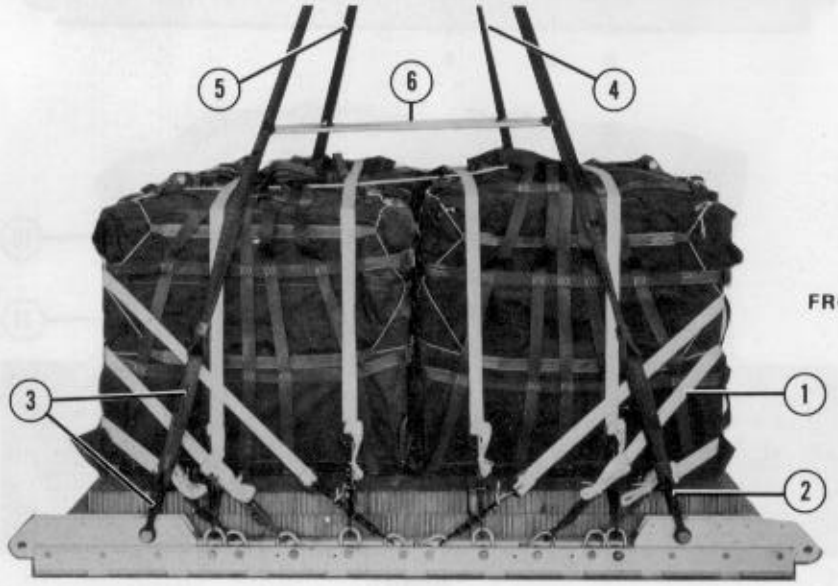
Figure 11-19. Lashings 10 through 12 installed

11-22. Installing Suspension Slings and Deadman's Tie

Install the suspension slings as shown in Figure 11-20 using four 3-foot (3-loop) and four 9-foot (3-loop), type X nylon webbing slings or four 3-foot (2-loop) and four 9-foot (2-loop), type XXVI nylon webbing slings and four large suspension clevis assemblies. Install the deadman's tie as outlined in FM 10-500/TO 13C7-1-5 and as shown in Figure 11-20.

Note:

Four 11-foot (2-loop or 3-loop), type X nylon webbing slings can be used in place of the four 3-foot and four 9-foot, type X or type XXVI nylon webbing slings.

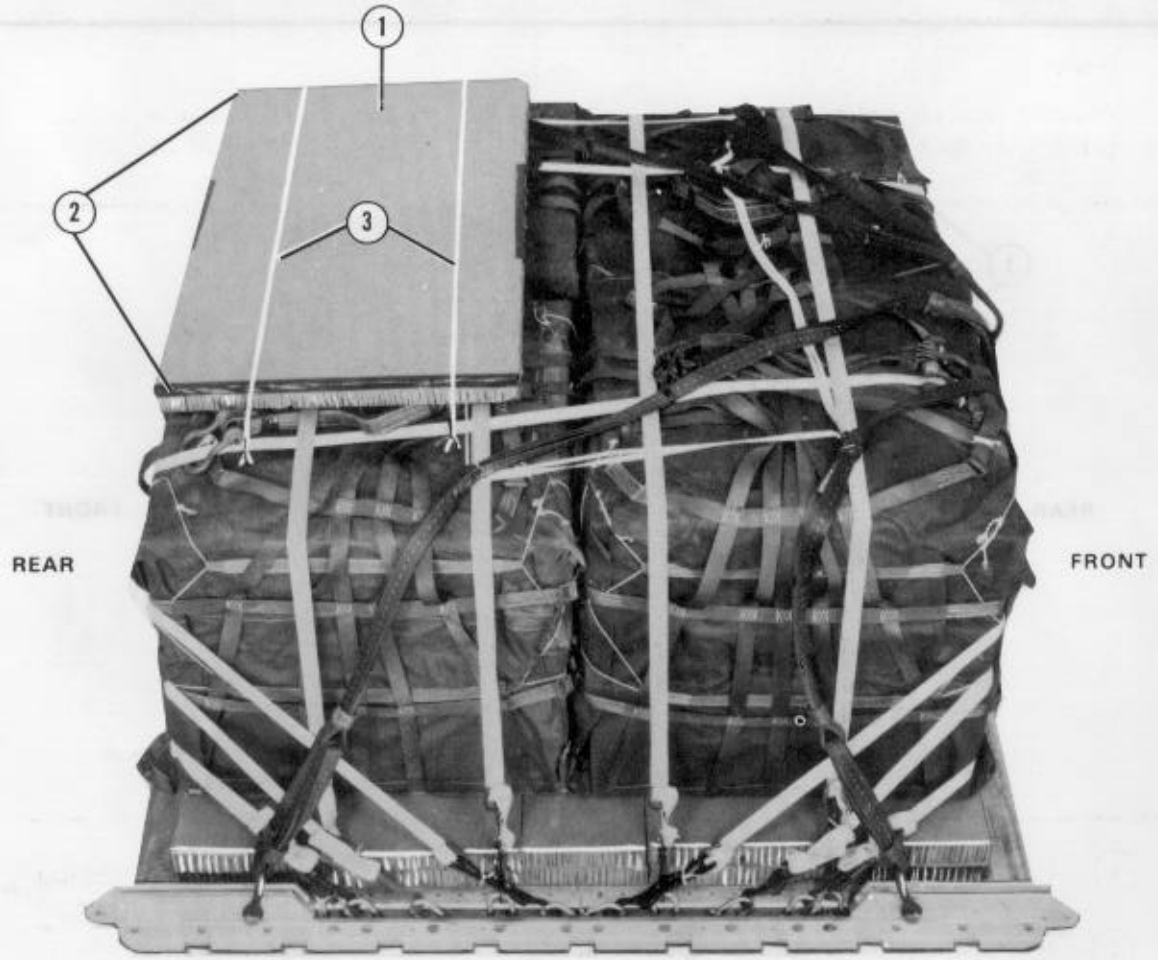


1. Pass one end of a 3-foot sling through the loop of a 9-foot sling. Even the ends of the 3-foot sling, and attach both ends of the 3-foot sling to a large suspension clevis.
2. Bolt the clevis to the right front tandem link.
3. Form a suspension sling and install it on the right rear tandem link by adapting the procedures in steps 1 and 2.
4. Form a suspension sling and install it on the left front tandem link by adapting the procedures in steps 1 and 2.
5. Form a suspension sling and install it on the left rear tandem link by adapting the procedures in steps 1 and 2.
6. Install a deadman's tie according to FM 10-500/TO 13C7-1-5.

Figure 11-20. Suspension slings and deadman's tie installed

11-23. Installing Parachute Stowage Platform

Install a parachute stowage platform as shown in Figure 11-21.

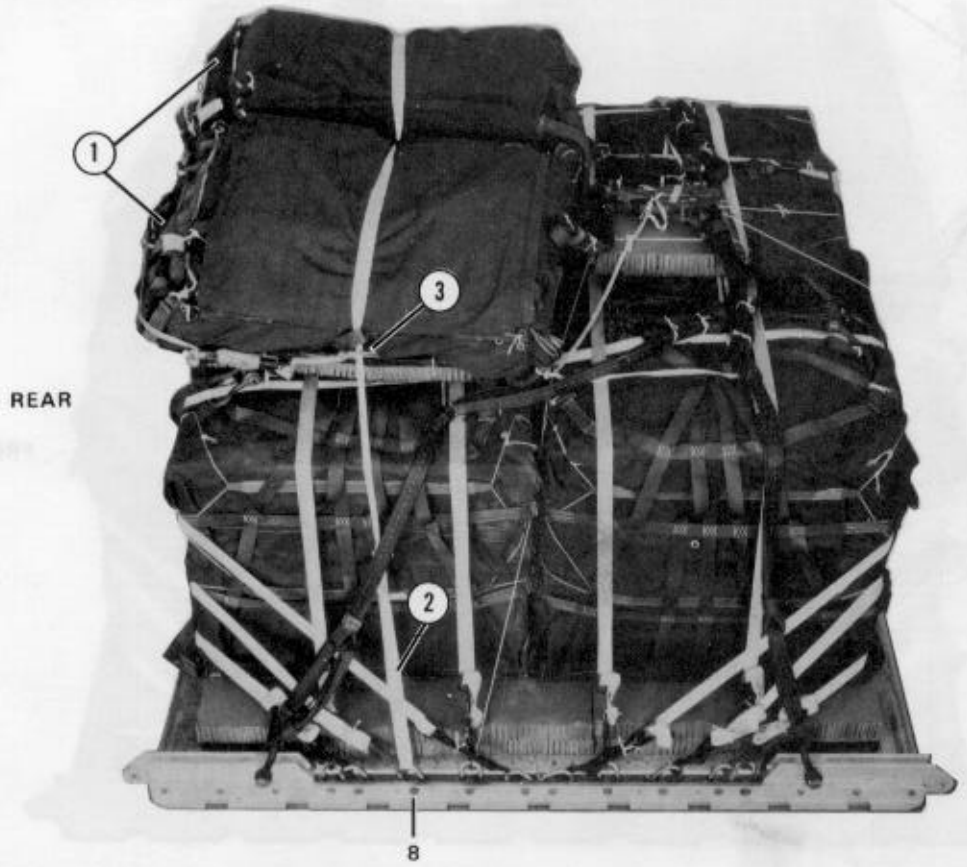


1. Center a 36- by 60-inch piece of honeycomb on the rear of the load with the 60-inch edge even with the rear edge of the A-22 containers.
2. Tape the edges of the honeycomb.
3. Tie the honeycomb in place to convenient points on top of the load with two ties of type III nylon cord.

Figure 11-21. Parachute stowage platform installed

11-24. Installing Parachutes

Compute parachute requirements for the load being rigged. Select the correct number of G-11A or G-11B cargo parachutes. The load in Figure 11-22 shows two G-11A cargo parachutes. Install the parachutes as shown in Figure 11-22.



(1) Prepare two G-11A cargo parachutes according to FM 10-500/TO 13C7-1-5. Place the parachutes on the parachute stowage platform.

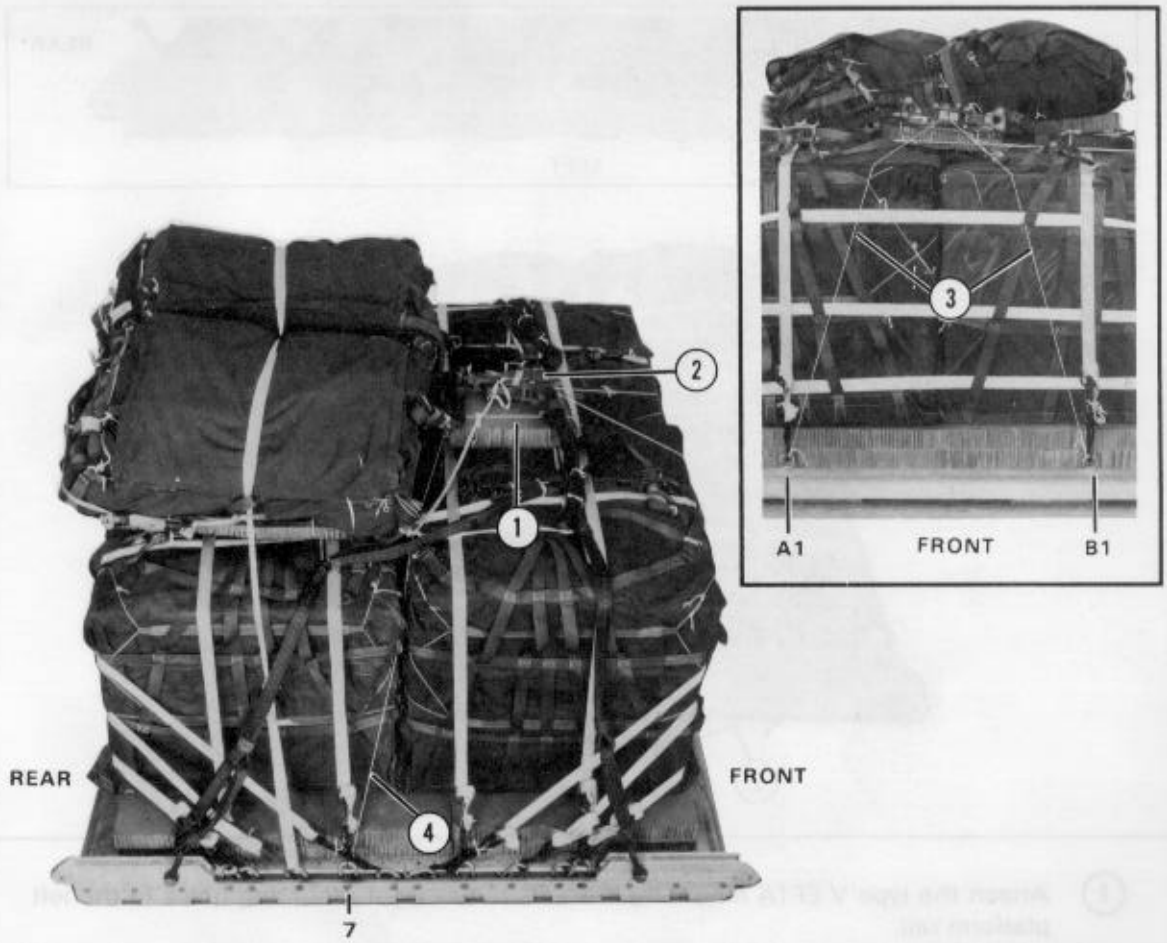
(2) Install a parachute restraint strap according to FM 10-500/TO 13C7-1-5. Secure the parachute restraint strap to clevises 8 and 8A.

(3) Install the parachute release strap according to FM 10-500/TO 13C7-1-5.

Figure 11-22. Parachutes installed

11-25. Installing Release System

Install and safety the M-1 cargo parachute release assembly as shown in Figure 11-23.



(1) Center an 18- by 20-inch piece of honeycomb on top of the load in front of the parachutes. Secure the honeycomb to the load with type III nylon cord.

(2) Prepare and install an M-1 cargo parachute release assembly according to FM 10-500/TO 13C7-1-5. Center the release assembly on the 18- by 20-inch piece of honeycomb.

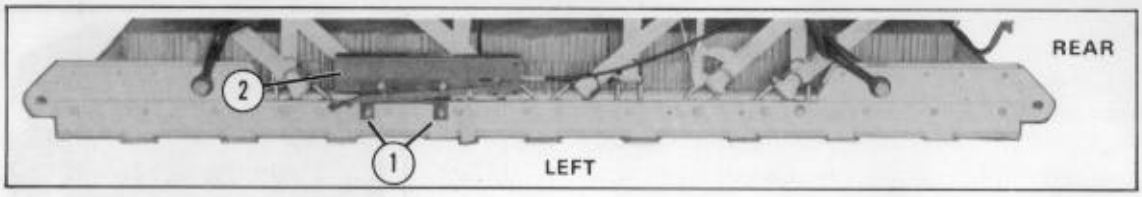
(3) Secure the bottom of the release assembly with type III nylon cord. Make the tie according to FM 10-500/TO 13C7-1-5, and secure the ends of the tie to tiedown rings A1 and B1.

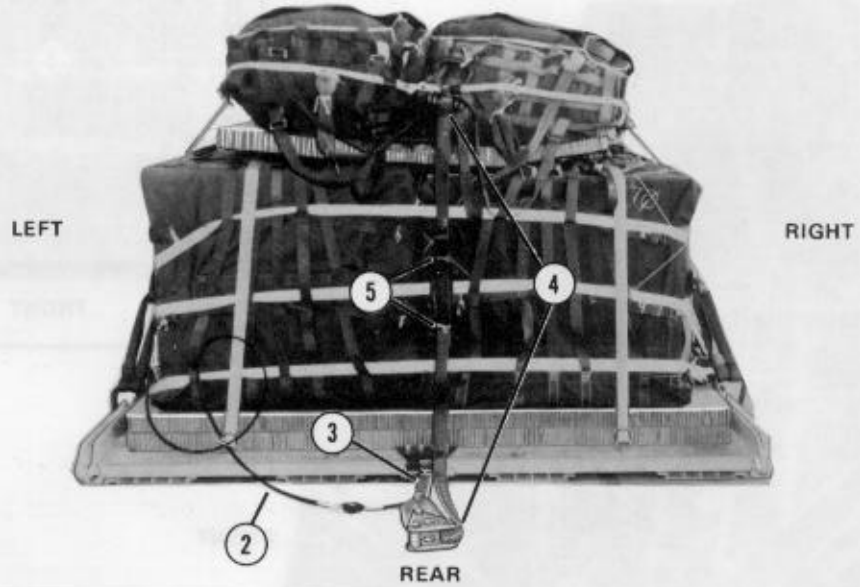
(4) Secure the top of the release assembly with type III nylon cord. Make the tie according to FM 10-500/TO 13C7-1-5, and secure the ends of the tie to clevises 7 and 7A.

Figure 11-23. Release assembly installed

11-26. Installing Extraction System

Install the EFTC extraction system as shown in Figure 11-24.





1. Attach the type V EFTA mounting brackets to the front mounting holes in the left platform rail.
2. Install the actuator (with a 12-foot release cable) to the EFTA mounting brackets according to FM 10-500/TO 13C7-1-5.
3. Use a 5 1/2-inch latch assembly adapter, and attach the latch assembly to the extraction bracket according to FM 10-500/TO 13C7-1-5 with the locking nut hole facing toward the left side of the platform.
4. Connect one end of a 9-foot (2-loop), type X or a 9-foot (2-loop), type XXVI nylon webbing sling (deployment line) to the right spacer of the link assembly. Connect the free end of the deployment line to the center large suspension clevis on the parachutes.
5. Fold the excess deployment line, and secure the folds in place with tape or 80-pound cotton webbing.

Figure 11-24. Extraction system installed

11-27. Installing Provisions for Emergency Restraints

Attach a medium (3/4-inch) suspension clevis to the front hole on the front tandem links.

Note:

The emergency restraints will be installed to the emergency restraint points in the aircraft. The clevises used as emergency restraint points may also be placed on the load and installed later in the aircraft.

11-28. Positioning Extraction Parachute

Position the extraction parachute as described below.

a. C-130 Aircraft. Place a 15-foot cargo extraction parachute; a 60-foot (1-loop), type XXVI nylon webbing extraction line; and a type V link assembly on the load for installation in the aircraft.

Note:

When the rigged load weighs more than 8,001 pounds, a 60-foot (3-loop), type X or type XXVI nylon extraction line; a 22-foot cargo extraction parachute; and a 3 3/4-inch, two-point link assembly are required.

b. C-141 Aircraft. Place a 15-foot cargo extraction parachute with an adapter web and a continuous 160-foot (1-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

Note:

When the rigged load weighs more than 10,001 pounds, a continuous 140-foot (3-loop), type XXVI nylon extraction line; a 22-foot cargo extraction parachute; and a 3 3/4-inch, two-point link assembly are required.

11-29. Marking Rigged Load

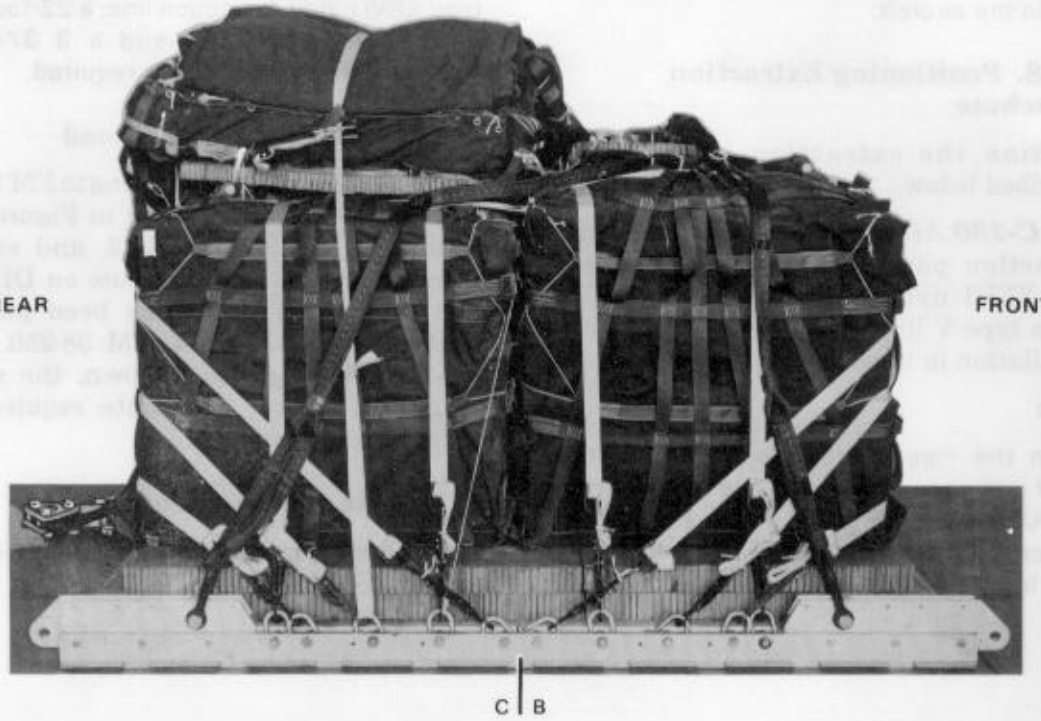
Mark the rigged load according to FM 10-500/TO 13C7-1-5 and as shown in Figure 11-25. Complete DD Form 1387-2, and securely attach it to the load. Indicate on DD Form 1387-2 that the load has been prepared according to AFR 71-4/TM 38-250. If the load varies from that shown, the weight, height, CB, and parachute requirements must be recomputed.

11-30. Equipment Required

Use the equipment listed in Table 11-2 to rig this load.

CAUTION

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



RIGGED LOAD DATA

Weight:	Load shown	6,750 pounds
	Maximum allowable	10,500 pounds
Height		71 inches
Width		108 inches
Length		119 inches
Overhang (Rear)		18 inches
CB (from front edge of platform)		50 inches
Extraction system (shown)		EFTC

Figure 11-25. Bulk supplies rigged in A-22 cargo bags

Table 11-2. Equipment required for rigging typical supply loads in A-22 cargo bags on a type V platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
1670-00-587-3421	Bag, cargo, A-22	4
	Clevis, suspension:	
4030-00-678-8562	3/4-in (medium)	1
4030-00-090-5354	1-in (large)	4
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer, w 12-foot cable	1
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb	As required
	Line, extraction:	
1670-01-064-4452	60-ft (1-loop), type XXVI nylon webbing (for C-130) or	1
1670-00-856-0266	60-ft (3-loop), type X nylon webbing or	1
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (for C-141) or	1
1670-01-107-7652	160-ft (1-loop), type XXVI nylon webbing	1
	Link assembly:	
1670-00-217-2421	Link, L-bar type	2
1670-00-783-5988	Type IV (for extraction line)	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3- by 36- by 96-in:	5 sheets
	13- by 96-in	(2)
	18- by 20-in	(1)
	36- by 60-in	(1)
	36- by 96-in	(4)
1670-01-183-2678	Leaf, extraction line (line bag)	2
	Parachute, cargo:	
1670-00-269-1107	G-11A or	2
1670-01-016-7841	G-11B	1
	Parachute, cargo extraction:	
1670-00-052-1548	15-ft or	1
1670-01-063-3715	15-ft (new)	1
1670-00-687-5458	22-ft or	1
1670-01-063-3716	22-ft (new)	1
	Platform, AD, type V, 8-ft:	
	Bracket:	
1670-01-162-2375	Inside EFTA	1
1670-01-162-2374	Outside EFTA	1
1670-01-162-2385	Bumper, nose	1
1670-01-162-2372	Clevis, load tiedown	20
1670-01-162-2381	Tandem link	4
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 11-2. Equipment required for rigging typical supply loads in A-22 cargo bags on a type V platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
	Sling, cargo, airdrop:	
1670-00-753-3788	3-ft (3-loop), type X nylon webbing or	4
1670-01-062-6301	3-ft (2-loop), type XXVI nylon webbing	4
1670-00-753-3790	9-ft (2-loop), type X nylon webbing or	4
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	4
1670-00-753-3791	11-ft (2-loop), type X nylon webbing or	4
1670-00-823-5040	11-ft (3-loop), type X nylon webbing	4
1670-00-753-3794	20-ft (2-loop), type X nylon webbing (riser extensions) or	2
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tiedown assembly, 15-ft	12
1670-01-062-6312	Web, adapter, 36-in	16
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb, natural	As required
8305-00-263-3591	Nylon, type VIII, 3,600-lb	As required