CHAPTER 6

Rigging 55-Gallon Collapsible Water Drums

Section I

RIGGING DRUMS IN AN A-22 CARGO BAG FOR LOW-VELOCITY AIRDROP

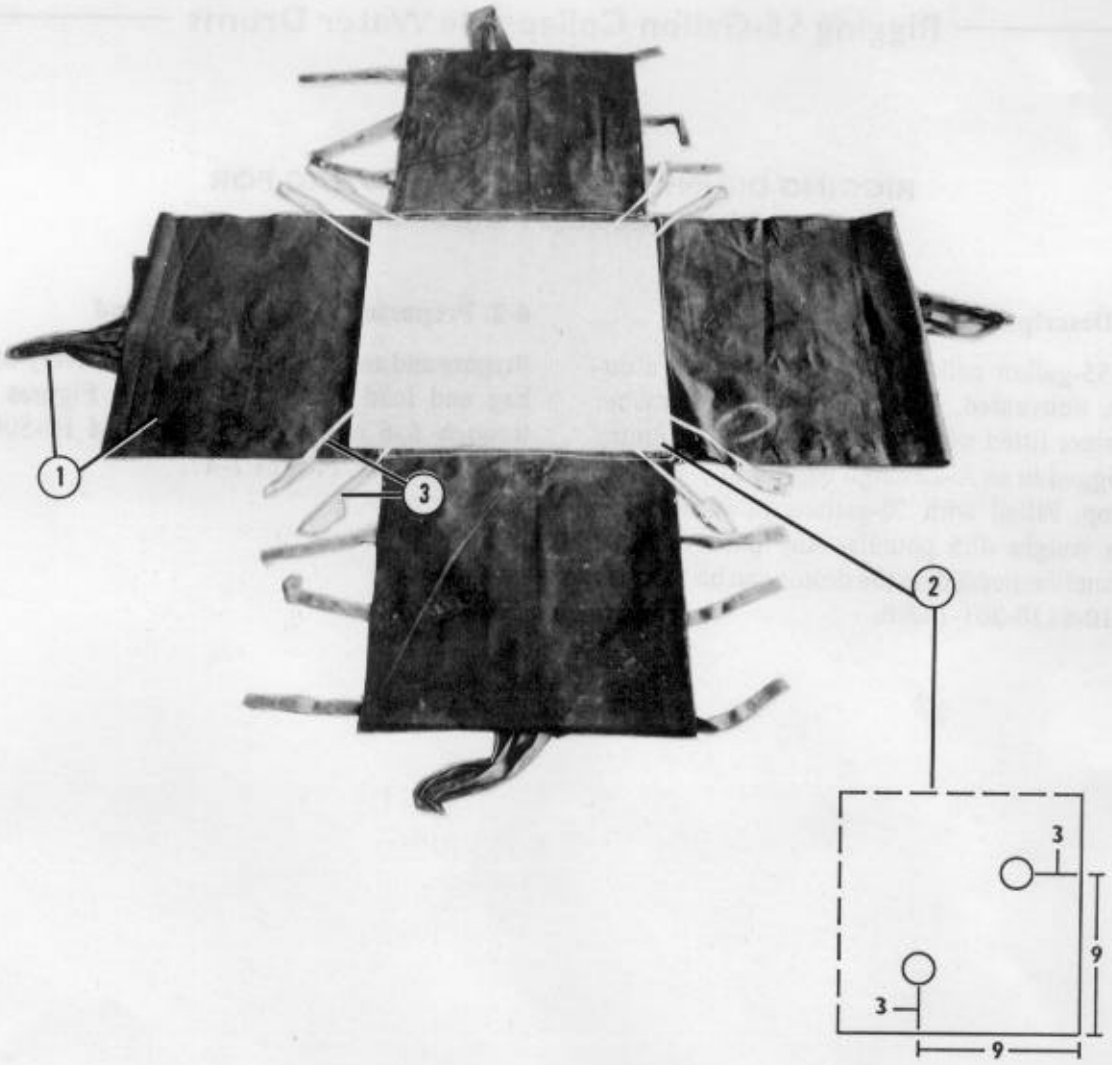
6-1. Description of Load

The 55-gallon collapsible water drum is a durable, nonvented, cylindrically shaped, rubber container fitted with a faucet valve. Four drums are rigged in an A-22 cargo bag for low-velocity airdrop. Filled with 50-gallons of water, each drum weighs 465 pounds. Any parts or other information needed on the drums can be found in TM 10-8110-201-14&P.

6-2. Preparing and Securing Load

Prepare and secure the A-22 aerial delivery cargo bag and load items as shown in Figures 6-1 through 6-6 and according to FM 10-500-3/ TO 13C7-1-11/FMFM 7-47.

NOTES: 1. All measurements are given in inches.
2. This drawing is not drawn to scale.

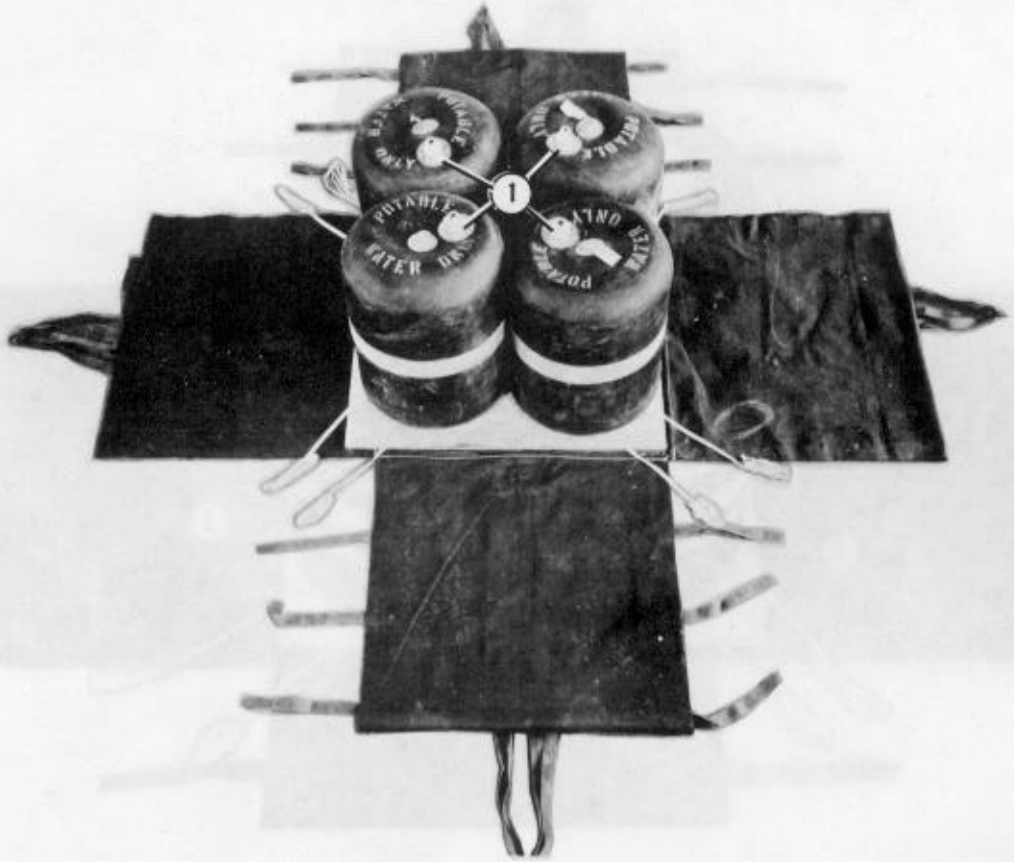


(1) Lay out a sling assembly with cover according to FM 10-500-3/TO 13C7-1-11/FMFM 7-47.

(2) Drill two 1/2-inch holes in each corner of a 3/4- by 48- by 48-inch piece of plywood or skidboard. Place the holes 9 inches from each corner and 3 inches from the edge.

(3) Position the plywood inside the cover. Pass a 15-foot length of 1/2-inch tubular nylon webbing through the holes in each corner of the plywood.

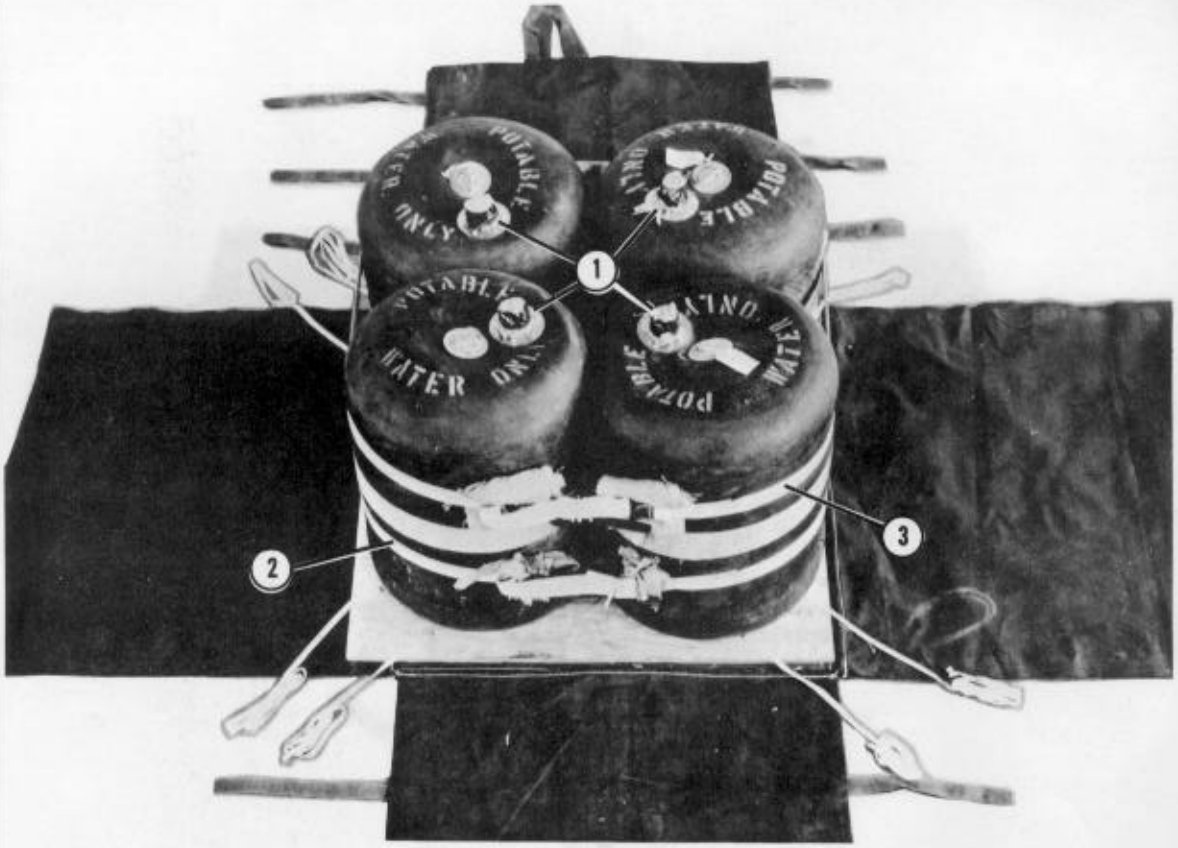
Figure 6-1. A-22 cargo bag prepared



(1) **Center four 55-gallon collapsible water drums on the 48- by 48-inch plywood with the valves facing into the center.**

Figure 6-2. Drums positioned

NOTE: Pad the load binders and D-rings with cellulose wadding.

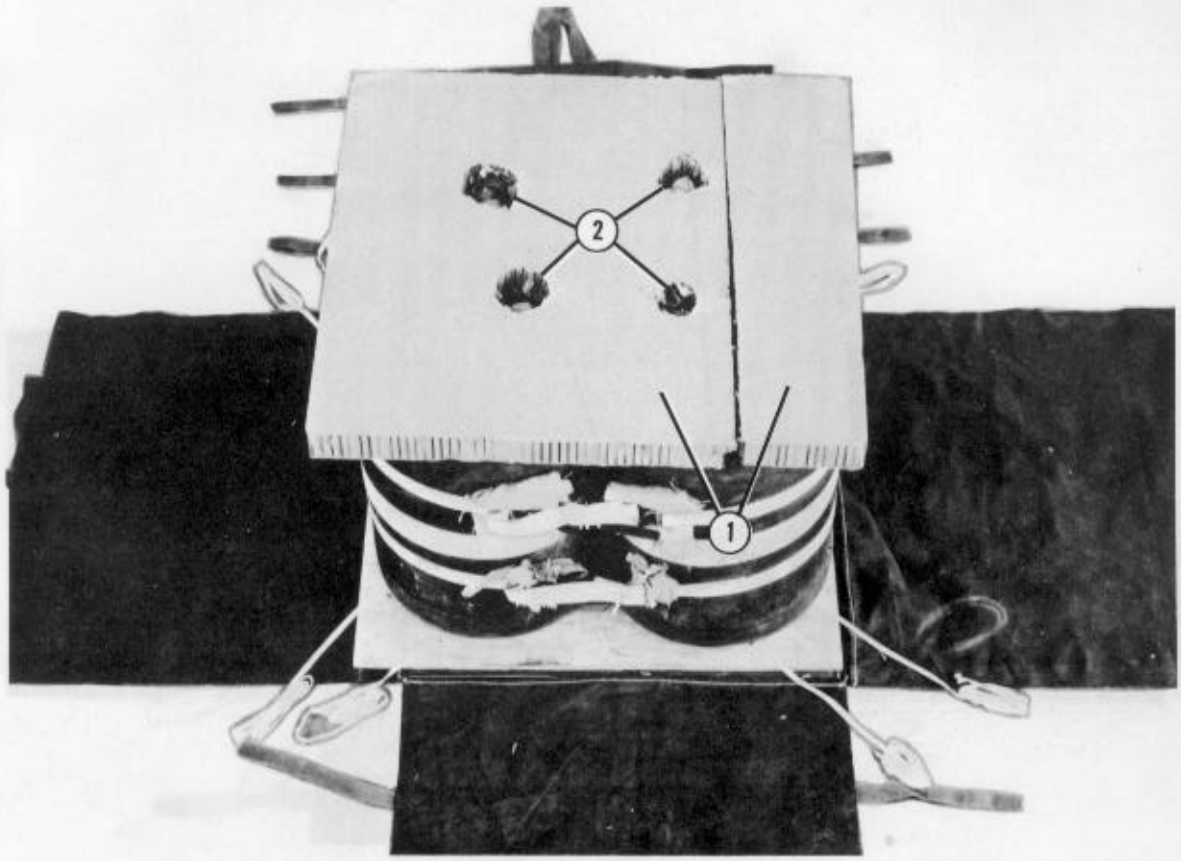


(1) **Pad the faucet valves with cellulose wadding and tape.**

(2) **Pass one 15-foot tie-down lashing around the lower half of the drums, and secure with a load binder and D-ring.**

(3) **Repeat step 2 for the upper half of the drums.**

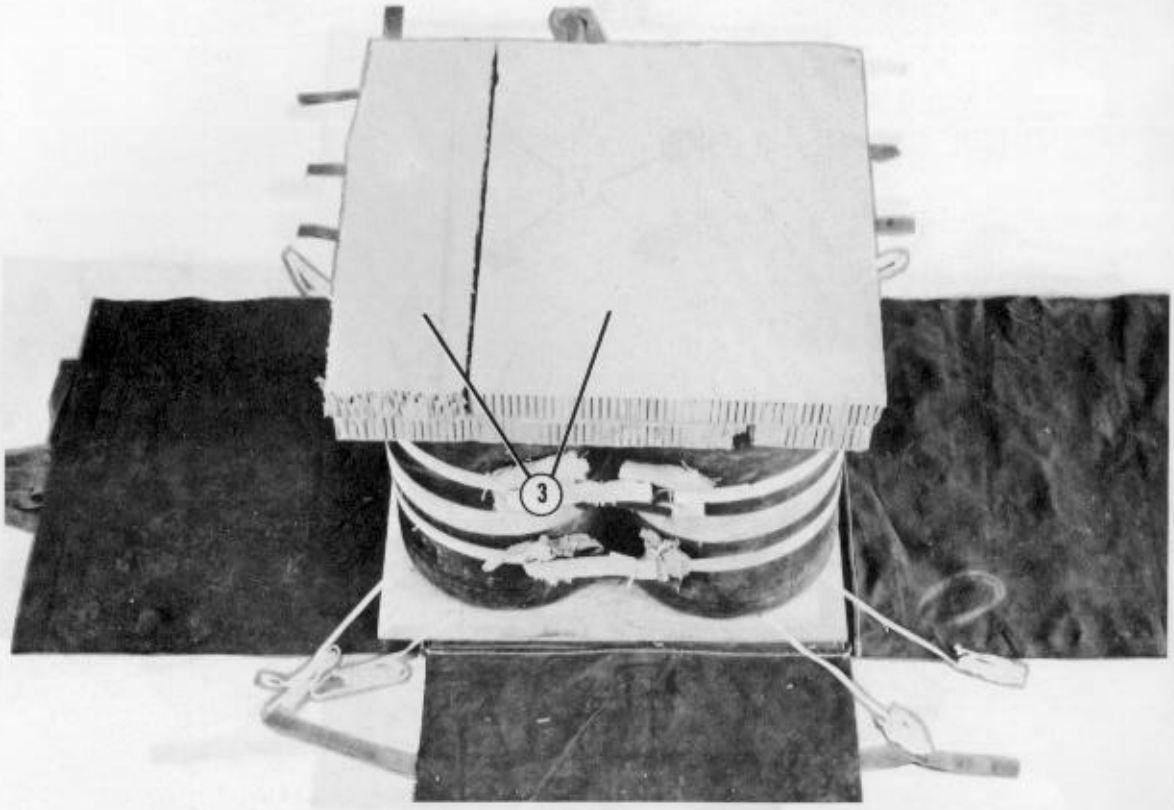
Figure 6-3. Drums secured together



(1) **Center a layer of 48- by 48-inch honeycomb on top of the drums (one piece is 48 by 36 inches and another is 48 by 12 inches).**

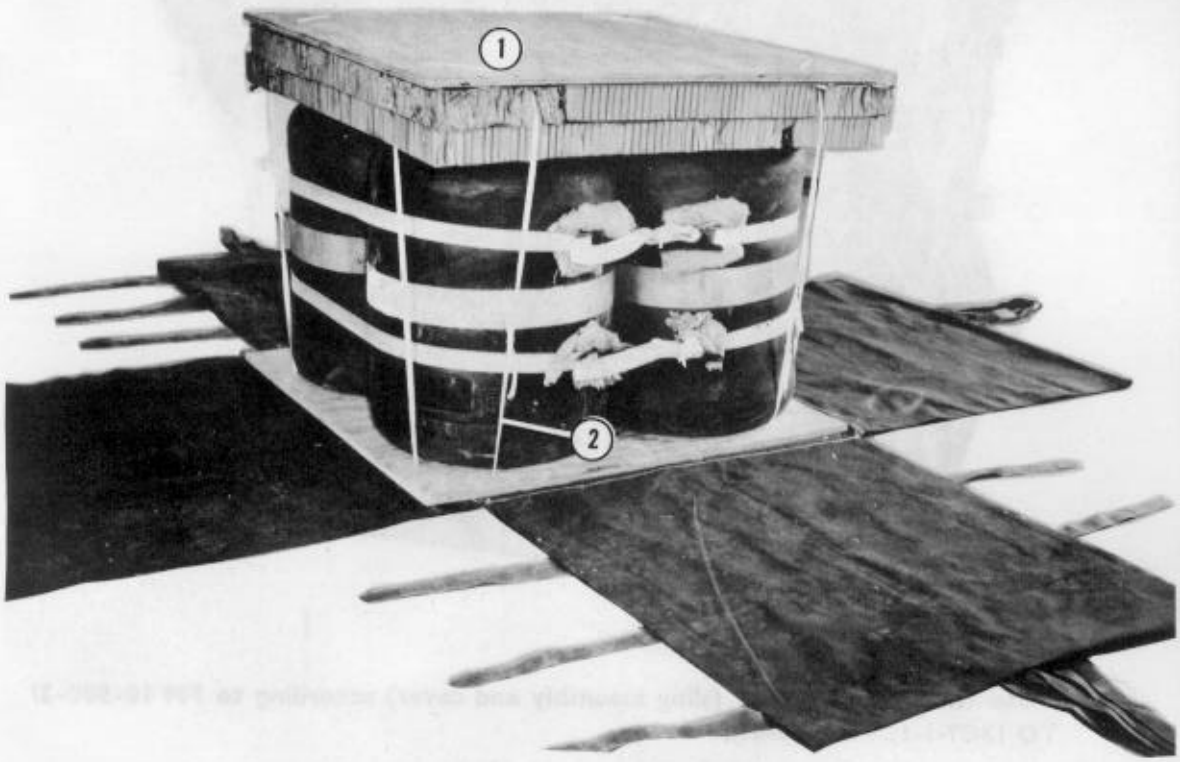
(2) **Mark where the valves contact the 48- by 48-inch layer of honeycomb. Cut holes 5 inches larger than the valves at each mark.**

Figure 6-4. Honeycomb positioned



(3) **Make a second 48- by 48-inch layer of honeycomb on top of the first layer by positioning the 48- by 12-inch piece on the side opposite the same piece of the first layer. Complete the second layer by placing the 48- by 36-inch piece next to the 48- by 12-inch piece.**

Figure 6-4. Honeycomb positioned (continued)



(1) **Position a 3/4- by 48- by 48-inch piece of plywood or skidboard, with holes drilled as described in Figure 6-1 on top of the 48- by 48-inch layers of honeycomb.**

(2) **Secure the two pieces of plywood together by passing the 1/2-inch tubular nylon from each corner of the lower piece of plywood to the same corner of the upper piece of plywood. Tie the ends together with a surgeon's knot and a locking knot according to FM 10-500-2/TO 13C7-1-5.**

Figure 6-5. Plywood and honeycomb secured

(1) **Close the A-22 container (sling assembly and cover) according to FM 10-500-3/ TO 13C7-1-11/FMFM 7-47.**

(2) **Attach the suspension webs to the A-22 container according to FM 10-500-3/ TO 13C7-1-11/FMFM 7-47 (not shown).**

Figure 6-6. A-22 container closed

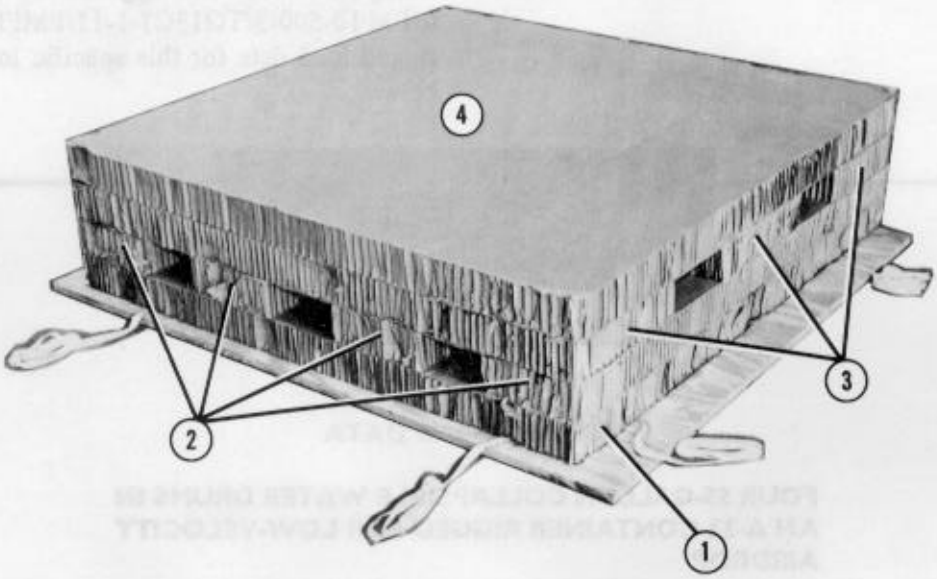
6-3. Preparing Skidboard

Prepare a skidboard according to FM 10-500-3/ TO 13C7-1-11/FMFM 7-47.

6-4. Building and Positioning Honeycomb on Skidboard

Build the honeycomb as shown in Figure 6-7. Position the honeycomb on the skidboard according to FM 10-500-3/TO 13C7-1-11/FMFM 7-47.

NOTE: The honeycomb stack should be glued together. It is not required to glue the stack to the skidboard.



(1) **Cut a 44- by 36-inch and a 44- by 8-inch piece of honeycomb to form the 48- by 48-inch bottom layer.**

(2) **Cut four 44- by 8-inch pieces of honeycomb. Place one piece on each end, flush with the edges of the bottom (first) layer. Evenly space the other two pieces between the end pieces to form the second layer.**

(3) **Cut three 44- by 11-inch pieces of honeycomb. Place one piece on each end, flush with the edges, but running in the opposite direction of the second layer. Center the third piece between the end pieces to form the third layer.**

(4) **Cut a 44- by 36-inch and a 44- by 8-inch piece of honeycomb to form the 48- by 48-inch top (fourth) layer.**

Figure 6-7. Building honeycomb layers

6-5. Securing Skidboard to A-22 Cargo Bag

Secure the skidboard to the container according to FM 10-500-3/TO 13C7-1-11/FMFM 7-47.

6-6. Installing Parachute

Attach and secure the parachute according to FM 10-500-3/TO 13C7-1-11/FMFM 7-47.

6-7. Equipment Required

Use the equipment listed in the table in FM 10-500-3/TO 13C7-1-11/FMFM 7-47 (rigging an A-22 container load for low-velocity airdrop) to rig four 55-gallon collapsible water drums in an A-22 cargo bag for low-velocity airdrop.

6-8. Marking Rigged Load

Compute and mark the rigged load data according to FM 10-500-3/TO13C7-1-11/FMFM 7-47. The rigged load data for this specific load is listed below.

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 must be verified.

RIGGED LOAD DATA

FOUR 55-GALLON COLLAPSIBLE WATER DRUMS IN AN A-22 CONTAINER RIGGED FOR LOW-VELOCITY AIRDROP

Weight	**1,980 pounds**
Height	**52 inches**
Length	**48 inches**
Width	**48 inches**
CB	**24 inches**

Section II

RIGGING DRUMS IN FOUR A-22 CARGO BAGS ON AN 8-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

6-9. Description of Load

The 55-gallon collapsible water drum is a durable, nonvented, cylindrically shaped rubber container fitted with a faucet valve. Four drums are rigged in an A-22 cargo bag, and four A-22 containers are rigged on an 8-foot, type V platform for low-velocity airdrop. Filled with 50 gallons of water, each drum weighs 465 pounds. Any parts or other information needed on the drums can be found in TM 10-8110-201-14&P.

6-10. Rigging Procedures

If A-22 containers with 55-gallon collapsible water drums are to be rigged on an 8-foot, type V platform, rig four A-22 cargo bags according to paragraphs 6-2 and 6-7. Do NOT add the 48- by 48-inch skidboards, the four layers of honeycomb, and the G-12 parachutes. Rig the platform load according to FM 10-512/TO 13C7-1-8 using the procedures for rigging bulk supplies in A-22 cargo bags on an 8-foot type V platform.