

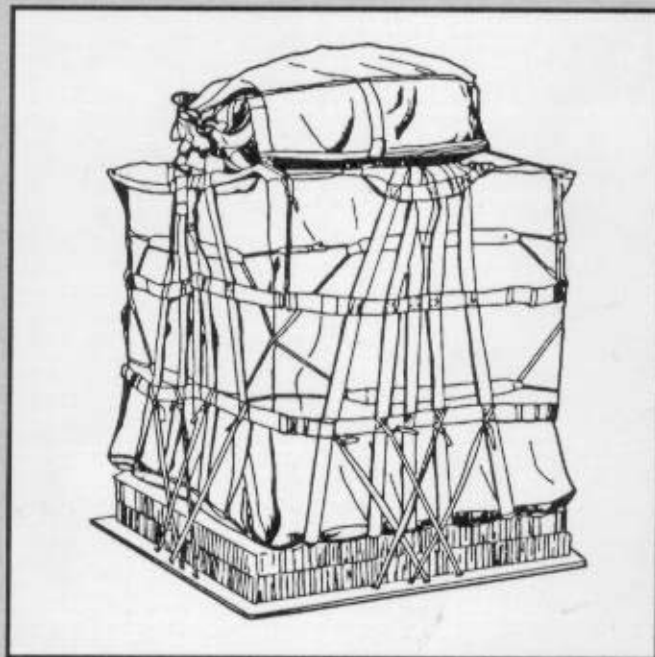
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AIR FORCE TO 13C7-1-11
MARINE CORPS FMFM 7-47

MCRP 4-11.3C (formerly )



AIRDROP OF SUPPLIES AND EQUIPMENT **RIGGING CONTAINERS**



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HEADQUARTERS
DEPARTMENTS OF THE ARMY AND THE AIR FORCE
THE US MARINE CORPS

FIELD MANUAL
No. 10-500-3
FLEET MARINE FORCE MANUAL
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TECHNICAL ORDER
No. 13C7-1-11

HEADQUARTERS
DEPARTMENT OF THE ARMY
UNITED STATES MARINE CORPS
DEPARTMENT OF THE AIR FORCE
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AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING CONTAINERS

TABLE OF CONTENTS

	Paragraph	Page
PREFACE		viii
PART ONE	GENERAL INFORMATION	
CHAPTER 1	GENERAL RIGGING INFORMATION FOR CONTAINER LOADS	
Section I	RIGGING INFORMATION	
	Description of Container Loads	1-1 1-1
	Types of Airdrop	1-2 1-2
	Commonly Used Items	1-3 1-2
	Parachute Requirements	1-4 1-3
	Data Tag for Rigged Loads	1-5 1-3
	Computation of Minimum Weight for Container Loads	1-6 1-4
	Special Considerations	1-7 1-4
	Safety Precautions	1-8 1-4
	Rigging Precautions	1-9 1-4
	Loads Dropped in Frigid Climates	1-10 1-5
	Final Inspection	1-11 1-5
	Release Gate	1-12 1-5
	Knots Used	1-13 1-6
	Securing of Straps and Webbing	1-14 1-7
Section II	HIGH-ALTITUDE AIRDROP RESUPPLY SYSTEM	
	Description of HAARS	1-15 1-9
	Altitude Sensor Parachute Staging Unit	1-16 1-9

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	Paragraph	Page
CHAPTER 2	AIRCRAFT INFORMATION	
	Army Aircraft	2-1 2-1
	Air Force Aircraft	2-2 2-2
	CVRS	2-3 2-2
	Inboard Logistics Rail	2-4 2-3
	Release Gate Load Spreader	2-5 2-4
	Capabilities of Non-CVRS Loads	2-6 2-5
PART TWO	RIGGING A-7A CONTAINER LOADS	
CHAPTER 3	GENERAL INFORMATION AND PROCEDURES	
	A-7A Airdrop Cargo Sling Assembly	3-1 3-1
	Weight Limits	3-2 3-2
	A-7A Container Loads	3-3 3-2
	Parachutes for A-7A Loads	3-4 3-2
	Modifying the T-10 Parachute	3-5 3-19
CHAPTER 4	RIGGING TYPICAL A-7A CONTAINERS	
Section I	LOW-VELOCITY AIRDROP FROM PARATROOP DOOR	
	Description of Load	4-1 4-1
	Positioning Straps	4-2 4-1
	Positioning Load and Securing Straps	4-3 4-2
	Installing Parachute	4-4 4-5
	Marking Rigged Load	4-5 4-5
	Equipment Required	4-6 4-5
Section II	LOW-VELOCITY AIRDROP FROM RAMP	
	Description of Load	4-7 4-8
	Preparing Skid Board	4-8 4-8
	Placing Honeycomb and Positioning Straps	4-9 4-8
	Positioning Load and Securing Straps	4-10 4-8
	Securing Skid Board	4-11 4-8
	Installing Parachute	4-12 4-13
	Marking Rigged Load	4-13 4-13
	Equipment Required	4-14 4-13
Section III	HIGH-VELOCITY AIRDROP	
	Description of Load	4-15 4-15
	Preparing Drop Items	4-16 4-15
	Preparing Skid Board	4-17 4-15
	Positioning Straps	4-18 4-15
	Placing Honeycomb	4-19 4-15
	Securing Straps	4-20 4-17
	Securing Skid Board	4-21 4-17
	Installing Parachute	4-22 4-17
	Marking Rigged Load	4-23 4-17
	Equipment Required	4-24 4-17

		Paragraph	Page
Section IV	HAARS		
	Description of Load	4-25	4-20
	Rigging Load	4-26	4-20
	Preparing and Installing Parachute	4-27	4-20
	Installing Altitude Sensor Parachute Staging Unit and Pilot Parachute	4-28	4-20
	Marking Rigged Load	4-29	4-25
	Equipment Required	4-30	4-25
PART THREE RIGGING A-21 CONTAINER LOADS			
CHAPTER 5	GENERAL INFORMATION AND PROCEDURES		
	A-21 Cargo Bag Assembly	5-1	5-1
	Capabilities of A-21 Bag	5-2	5-2
	Parachutes Used for A-21 Containers	5-3	5-2
	Installation of Parachutes on A-21 Containers	5-4	5-2
CHAPTER 6	RIGGING TYPICAL A-21 LOADS		
Section I	LOW-VELOCITY AIRDROP FROM PARATROOP DOOR		
	Description of load	6-1	6-1
	Preparing Drop Items	6-2	6-1
	Positioning Container and Load	6-3	6-1
	Rigging Container	6-4	6-3
	Installing Parachute	6-5	6-5
	Marking Rigged Load	6-6	6-5
	Equipment Required	6-7	6-5
Section II	LOW-VELOCITY AIRDROP FROM RAMP		
	Description of Load	6-8	6-7
	Preparing Drop Items	6-9	6-7
	Preparing Skid Board	6-10	6-7
	Positioning Container and Load	6-11	6-7
	Rigging Container	6-12	6-7
	Securing Skid Board	6-13	6-7
	Installing Parachute	6-14	6-10
	Marking Rigged Load	6-15	6-10
	Equipment Required	6-16	6-10
Section III	HIGH-VELOCITY AIRDROP		
	Description of Load	6-17	6-12
	Preparing Drop Items	6-18	6-12
	Preparing Skid Board	6-19	6-12
	Positioning Honeycomb	6-20	6-12
	Positioning Container and Load	6-21	6-13
	Rigging Container	6-22	6-13
	Securing Skid Board	6-23	6-13

	Paragraph	Page
Installing Parachute	6-24	6-13
Marking Rigged Load	6-25	6-13
Equipment Required	6-26	6-13
Section IV HAARS		
Description of Load	6-27	6-16
Rigging Container	6-28	6-16
Preparing and Installing Cargo Parachute	6-29	6-16
Installing Altitude Sensor Parachute Staging Unit and Pilot Parachute	6-30	6-16
Marking Rigged Load	6-31	6-16
Equipment Required	6-32	6-16
CHAPTER 7 RIGGING SPECIFIC A-21 LOADS		
Section I RIGGING GLLD FOR LOW-VELOCITY AIRDROP		
Description of Load	7-1	7-1
Preparing Skid Boards	7-2	7-1
Placing Honeycomb and Top Skid Board	7-3	7-1
Rigging GLLD	7-4	7-1
Installing Parachute	7-5	7-1
Marking Rigged Load	7-6	7-10
Equipment Required	7-7	7-10
Section II RIGGING AIR TRAFFIC CONTROL FACILITY AN/TSQ-97A FOR LOW-VELOCITY AIRDROP		
Description of Load	7-8	7-12
Preparing Load	7-9	7-12
Preparing Skid Board	7-10	7-15
Positioning Honeycomb	7-11	7-16
Placing Container	7-12	7-17
Positioning Load	7-13	7-17
Rigging Container	7-14	7-21
Installing Parachute	7-15	7-21
Marking Rigged Load	7-16	7-21
Equipment Required	7-17	7-21
PART FOUR RIGGING A-22 CONTAINER LOADS		
CHAPTER 8 GENERAL INFORMATION FOR A-22 LOADS		
A-22 Cargo Bag Assembly	8-1	8-1
A-22 Skid Board	8-2	8-1
A-22 Container Limitations	8-3	8-1
Double A-22 Cargo Bag	8-4	8-1
Stretch A-22 Cargo Bag	8-5	8-1
Assembly Line Rigging	8-6	8-1
Inspection of Load	8-7	8-1
Parachutes Used	8-8	8-1
Installation of Parachutes	8-9	8-3

	Paragraph	Page
CHAPTER 9	RIGGING TYPICAL A-22 LOADS	
Section I	RIGGING A-22 LOADS FOR LOW-VELOCITY AIRDROP	
	Description of Load	9-1 9-1
	Preparing Drop Items	9-2 9-1
	Preparing Skid Board	9-3 9-1
	Positioning Honeycomb	9-4 9-3
	Positioning A-22 Cargo Bag Sling, Cover, and Load	9-5 9-4
	Securing A-22 Cargo Bag Cover	9-6 9-5
	Securing A-22 Cargo Bag Sling	9-7 9-6
	Securing Skid Board to A-22 Cargo Bag	9-8 9-7
	Attaching Suspension Webs	9-9 9-8
	Installing Parachute	9-10 9-9
	Marking Rigged Load	9-11 9-9
	Equipment Required	9-12 9-9
Section II	RIGGING A-22 LOADS FOR HIGH-VELOCITY AIRDROP	
	Description of Load	9-13 9-11
	Preparing Items and Skid Board	9-14 9-11
	Positioning Honeycomb	9-15 9-11
	Rigging Container	9-16 9-11
	Installing Parachute	9-17 9-11
	Marking Rigged Load	9-18 9-14
	Equipment Required	9-19 9-14
Section III	RIGGING DOUBLE A-22 CARGO BAG LOADS FOR LOW-VELOCITY AIRDROP	
	Description of Load	9-20 9-16
	Preparing Skid Board	9-21 9-16
	Preparing Skid Board Ties and Positioning Honeycomb	9-22 9-17
	Positioning A-22 Sling Assemblies	9-23 9-18
	Positioning Covers and Honeycomb	9-24 9-20
	Positioning Load and Closing Bag Covers	9-25 9-21
	Securing Tie-Down Straps	9-26 9-22
	Securing Lateral Straps	9-27 9-23
	Securing Skid Board Ties	9-28 9-24
	Installing Suspension Slings	9-29 9-25
	Installing Parachute	9-30 9-26
	Marking Rigged Load	9-31 9-27
	Equipment Required	9-32 9-27

	Paragraph	Page
Section IV	RIGGING STRETCH A-22 CARGO BAG LOADS FOR LOW-VELOCITY AIRDROP	
	Description of Load	9-33 9-29
	Preparing Skid Board	9-34 9-29
	Preparing Skid Board Ties and Positioning Honeycomb	9-35 9-30
	Positioning A-22 Sling Assemblies	9-36 9-31
	Positioning Covers and Honeycomb	9-37 9-33
	Positioning Load and Closing Bag Covers	9-38 9-34
	Securing Tie-Down Straps	9-39 9-35
	Securing Lateral Straps	9-40 9-36
	Securing Skid Board Ties	9-41 9-37
	Installing Suspension Slings	9-42 9-38
	Installing Parachute	9-43 9-39
	Marking Rigged Load	9-44 9-40
	Equipment Required	9-45 9-40
CHAPTER 10	RIGGING SPECIFIC SINGLE A-22 LOADS	
Section I	RIGGING TRAY-PACK RATIONS FOR LOW-VELOCITY AIRDROP	
	Description of Load	10-1 10-1
	Preparing Load	10-2 10-1
	Preparing Skid Board	10-3 10-1
	Positioning Honeycomb	10-4 10-1
	Rigging Load	10-5 10-1
	Installing Parachute	10-6 10-1
	Marking Rigged Load	10-7 10-1
	Equipment Required	10-8 10-3
Section II	RIGGING COMPANY-LEVEL FIELD FEEDING KITCHEN FOR LOW-VELOCITY AIRDROP	
	Description of Load	10-9 10-5
	Preparing Skid Board	10-10 10-6
	Positioning Honeycomb	10-11 10-6
	Positioning Container, Base, and Leg Braces	10-12 10-7
	Preparing Heater Cabinet	10-13 10-8
	Preparing Pot Assembly	10-14 10-12
	Positioning Load	10-15 10-13
	Closing Container	10-16 10-19
	Completing Rigged Load and Installing Parachute	10-17 10-19
	Marking Rigged Load	10-18 10-20
	Equipment Required	10-19 10-20
Section III	RIGGING PETROLEUM PRODUCTS	
	Description of Load	10-20 10-23
	Preparing Skid Board and Positioning Honeycomb	10-21 10-23
	Positioning Container	10-22 10-23
	Positioning Load	10-23 10-23
	Securing Container and Installing Parachute	10-24 10-23
	Equipment Required	10-25 10-23

	Paragraph	Page
CHAPTER 11	RIGGING SPECIFIC DOUBLE A-22 LOADS FOR LOW-VELOCITY AIRDROP	
Section I	RIGGING SNOWMOBILE	
	Description of Load	11-1 11-1
	Preparing Skid Board	11-2 11-1
	Positioning Container	11-3 11-1
	Positioning Honeycomb	11-4 11-1
	Preparing Snowmobile	11-5 11-4
	Positioning Load	11-6 11-6
	Completing Rigged Load	11-7 11-8
	Marking Rigged Load	11-8 11-8
	Equipment Required	11-9 11-8
Section II	RIGGING AHKIO SLEDS	
	Description of Load	11-10 11-11
	Preparing Skid Board and Positioning Honeycomb and Container	11-11 11-11
	Positioning Load	11-12 11-11
	Completing Rigged Load	11-13 11-11
	Marking Rigged Load	11-14 11-13
	Equipment Required	11-15 11-13
PART FIVE	RIGGING SPECIALIZED LOADS AND EQUIPMENT	
CHAPTER 12	RIGGING A-23 CONTAINERS	
	Description of Load	12-1 12-1
	Modifying 68-Inch Pilot Parachute	12-2 12-2
	Rigging Container	12-3 12-4
	Completing Rigged Load	12-4 12-4
	Marking Rigged Load	12-5 12-8
	Equipment Required	12-6 12-8
CHAPTER 13	FABRICATING AIR FORCE AIRDROP EQUIPMENT	
Section I	AIR FORCE UNILATERAL TRAINING	
	Description of SATB	13-1 13-1
	Preparing Sandbag	13-2 13-1
	Fabricating SATB	13-3 13-2
	Attaching Pendulum Line	13-4 13-5
	Packing and Installing Pilot Parachute	13-5 13-7
	Attaching Marker Light	13-6 13-8
	Using Extraction Parachute Deployment Bag	13-7 13-8
	Equipment Required	13-8 13-8
Section II	FABRICATING OF C-130 CDS PULLEY STRAP	
	Description of C-130 CDS Pulley Strap	13-9 13-10
	Preparing C-130 CDS Pulley Strap	13-10 13-10
GLOSSARY		Glossary-1
REFERENCES		References-1

PREFACE

PURPOSE

This manual gives the latest approved doctrine for rigging airdrop containers. It is written for use by a parachute rigger or jumpmaster. It consists of five parts.

- Part One contains general information for containers and aircraft.
- Part Two contains procedures for rigging A-7A container loads.
- Part Three contains procedures for rigging A-21 container loads.
- Part Four contains procedures for rigging A-22 container loads.
- Part Five contains procedures for rigging specialized loads and equipment.

NOTICE OF EXCEPTION

When an item of airdrop equipment is replaced or a rigging procedure is changed, it will be impossible to change all manuals in the field at one time. Therefore, FM 10-500-3/TO 13C7-1-11/FMFM 7-47 will be changed, when necessary, and will take precedence over the procedures in an individual rigging manual. There may be times, however, when the procedures in an individual rigging manual must be followed even though they are different from those in this manual. When this occurs, a notice of exception will be printed at the beginning of each paragraph where the exception is authorized. The notice of exception will look like the following:

NOTICE OF EXCEPTION

The procedures in this paragraph are different from those in FM 10-500-3/TO 13C7-1-11/FMFM 7-47. An exception to FM 10-500-3/TO 13C7-1-11/FMFM 7-47 is granted. The procedures in this paragraph must be followed.

Manuals which have currently been granted exceptions are FM 10-550/TO 13C7-22-71 and FM 10-500-53/TO 13C7-18-41/MCRP 4-3.8.

REFERENCE INFORMATION

To avoid repeating certain information and procedures, it is often necessary to reference other FMs and TMs. For example, this manual often references FM 10-500-2/TO 13C7-1-5. This may seem to be contradictory in that this manual, FM 10-500-3/TO 13C7-1-11/FMFM 7-47, deals with rigging container loads and FM 10-500-2/TO 13C7-1-5 deals with rigging platform loads. However, FM 10-500-2/TO 13C7-1-5 also provides general information and general procedures. Where information is the same or only minor differences exist, it is permissible to state that the information is provided in FM 10-500-2/TO 13C7-1-5. Where procedures are the same or only minor differences exist, it is permissible to state that the procedure is done according to or by adapting the procedures in FM 10-500-2/TO 13C7-1-5.

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Quantico, VA 22134-5021

PART ONE GENERAL INFORMATION

CHAPTER 1 GENERAL RIGGING INFORMATION FOR CONTAINER LOADS

Section I RIGGING INFORMATION

1-1. Description of Container Loads

Container loads are loads that are rigged for airdrop in airdrop containers such as the A-7A airdrop cargo sling assembly, the A-21 cargo bag assembly, the A-22 cargo bag assembly, and the A-23 cargo bag assembly. These containers are packed with supplies, disassembled equipment, or small items of ready-to-use equipment prepared for airdrop. Loads may be required to be cushioned with honeycomb, felt, or cellulose wadding depending on the load requirements and the method of airdrop. The number and types of parachutes required to stabilize the load and slow its descent depend on the type of container used, the weight of the load, and the type of airdrop.

a. A-7A Airdrop Cargo Sling Assembly. The A-7A airdrop cargo sling assembly consists of four identical sling straps. The length of each strap is 188 inches. Each sling strap is fitted with a parachute harness adapter (commonly called a friction adapter) and a floating D-ring. Loads weighing up to 500 pounds may be airdropped with an A-7A airdrop cargo sling assembly. Each A-7A cargo sling strap weighs 1 1/2 pounds. Part Two of this manual covers rigging the A-7A container for airdrop.

b. A-21 Cargo Bag Assembly. The A-21 cargo bag assembly is an adjustable container. It consists of a sling assembly with scuff pad, fixed quick-release strap and assembly, two O-ring straps, three quick-release straps, and a 97- by 115-inch canvas cover. The A-21 cargo bag assembly has a 500-pound load capacity. Part Three of this manual covers rigging an A-21 container for airdrop.

c. A-22 Cargo Bag Assembly. The A-22 cargo bag

assembly is an adjustable cotton duck cloth/nylon and nylon webbing container. It consists of a sling assembly, a cover, and four suspension webs. The container weight is about 41 pounds. The load may be rigged with or without a cover. The weight capacity for the container is 501 to 2,200 pounds without the weight of the parachute. The height will vary, but will not exceed 83 inches with parachute unless specific rigging procedure authorizes it. Part Four of this manual covers rigging the A-22 container.

d. Stretch A-22 Cargo Bag. The stretch A-22 cargo bag consists of two A-22 cargo bag assemblies. The covers may or may not be used. Only six of the suspension webs are used. Nylon and cotton sling assemblies must not be mixed. The weight capacity of the load is 900 to 2,200 pounds without the weight of the parachute. Part Four of this manual covers rigging the stretch A-22 container.

e. Double A-22 Cargo Bag. The double A-22 cargo bag consists of two A-22 cargo bag assemblies. The covers may or may not be used. Only six of the suspension webs are used. Nylon and cotton sling assemblies must not be mixed. The weight capacity of the load is 900 to 2,200 pounds without the weight of the parachute. Part Four of this manual covers rigging the double A-22 container.

f. A-23 Cargo Bag. The A-23 sling assembly is similar to the A-22 sling assembly, but it has additional support webs on all four sides with an additional D-ring on each side. The weight capacity of the load is 501 to 2,200 pounds without the weight of the parachute. The A-23 container assembly is used for HAARS drops, but may be used for A-22 drops. Part Five of this manual covers rigging the A-23 container.

1-2. Types of Airdrop

The three types of airdrop by which container loads can be delivered are low-velocity airdrop, high-velocity airdrop, and free drop. These are described below.

a. Low-Velocity Airdrop. Low-velocity airdrop is the delivery of supplies and equipment from an aircraft in flight using cargo parachutes. The items are usually rigged with honeycomb under them. The cargo parachutes are attached to the top of the load. The parachutes slow the descent of the load and ensure minimum shock when the load hits the ground.

b. High-Velocity Airdrop. High-velocity airdrop is the delivery of supplies and equipment from an aircraft in flight using a stabilizing parachute. The items are rigged with honeycomb under them. The stabilizing parachute is attached to the top of the load to maintain it in an upright position.

c. Free Drop. Free drop is the delivery of certain nonfragile items of supply from an aircraft in flight without the use of the parachutes or other retarding devices. No specific instructions are given in this manual for this type of airdrop.

1-3. Commonly Used Items

Items commonly used for rigging container loads are described below. An equipment required table is included for each load in this manual as a part of the section describing that load. This table lists the items and quantity of each item needed to prepare and rig the load covered in that section. Standard airdrop hardware, straps, and canvas items are described in FM 10-500-2/TO 13C7-1-5. Canvas, metal, webbing, and wood items are inspected according to TM 10-1670-298-20&P. Strength ratings for the items in this section and for other airdrop items are listed in FM 10-516/TO 13C7-1-13. Some textile, wood, and miscellaneous items are described below. The proper use of these items will be covered in this manual or in other manuals of the FM 10-500/TO 13C7 series.

a. Textile Items. Textile items which may be used when a container load is being rigged are described below.

NOTE: Lengths will vary. Lengths specified are only typical and may be changed.

(1) Type III nylon cord is used to make safety ties and to hold items in place. It has a tensile strength of 550 pounds.

(2) One-half-inch (or 5/8-inch) tubular nylon webbing is used as a primary skid board tie. It is also used to secure items during a drop. It has a tensile strength of 1,000 pounds.

NOTE: When the 1/2-inch (or 5/8-inch) tubular nylon webbing is not available for the skid board tie, type IV (coreless) braided nylon cord can be used. When the type IV (coreless) braided nylon cord is not available, double length of type III nylon cord can be used.

(3) Type I, 1/4-inch cotton webbing is used to make many of the needed safety ties. It has a tensile strength of 80 pounds.

(4) Ticket number 8/4 and 8/7 cotton thread are used to make various ties.

b. Wood Items. Wood items used on container loads, with the exception of the A-22 skid, are made locally using details found in the rigging manual for the particular load. The 48- by 48-inch skid for the A-22 cargo bag may be ordered precut or prepared locally. When the skid is prepared locally, AC grade plywood must be used.

c. Miscellaneous Items. Miscellaneous items which may be used when a container load is being rigged are described below.

(1) Two-inch masking tape is used to secure the folds of excess webbing, to prevent honeycomb from being cut by type III nylon cord, and to hold padding in place.

(2) Cellulose wadding and felt sheets may be used to pad fragile items, to prevent sharp edges from cutting, and to protect slings during deployment.

(3) Honeycomb is used to spread the landing shock. Honeycomb is also used to fill empty spaces and to level and pad the load. The number of layers used depends on the item being airdropped and the method of airdrop. Honeycomb is issued in 3- by 36- by 96-inch sheets.

(4) Steel strapping may be used for rigging airdrop items. The standard strapping used is 1/50 inch thick and 5/8 inch wide with a breaking strength of 1,000 pounds. It can be used to bind items together or form containers on A-7A and A-21 loads. When strapping is used to form containers, it will be doubled and the maximum weight of the load will not exceed 250 pounds without parachute weight. When strapping is used on A-22 or A-23 loads, it will not be bound around the skid board unless specific rigging procedures authorize it.