

SECTION IX - RIGGING SINGLE A-22 WITH REUSABLE UNIVERSAL SKIDBOARD (RUSB) AND REUSABLE ENERGY ABSORBING LAYER (REAL) FOR LOW- OR HIGH-VELOCITY

DESCRIPTION OF LOAD

8-99. A typical load is rigged for low- or high-velocity airdrops using a single A-22 container. The cover is optional. The weight limitation of the load is 501 to 2,200 pounds, excluding the weight of the parachute. The load is rigged with either one G-12E cargo parachute with a 68-inch diameter pilot parachute or a 26-foot ring-slot parachute. Units may utilize the RUSB with traditional EDM or a traditional plywood skid board with REAL. REAL and RUSB are recommended to be utilized together. RUSB should not be authorized to exceed 100 drops.

PREPARING RUSB

8-100. RUSB comes prepared with pre-drilled holes. See Figure 8-51.

Notes.

This drawing is not drawn to scale.

All dimensions are given in inches.

Both side of the RUSB are usable for aircraft rollers.

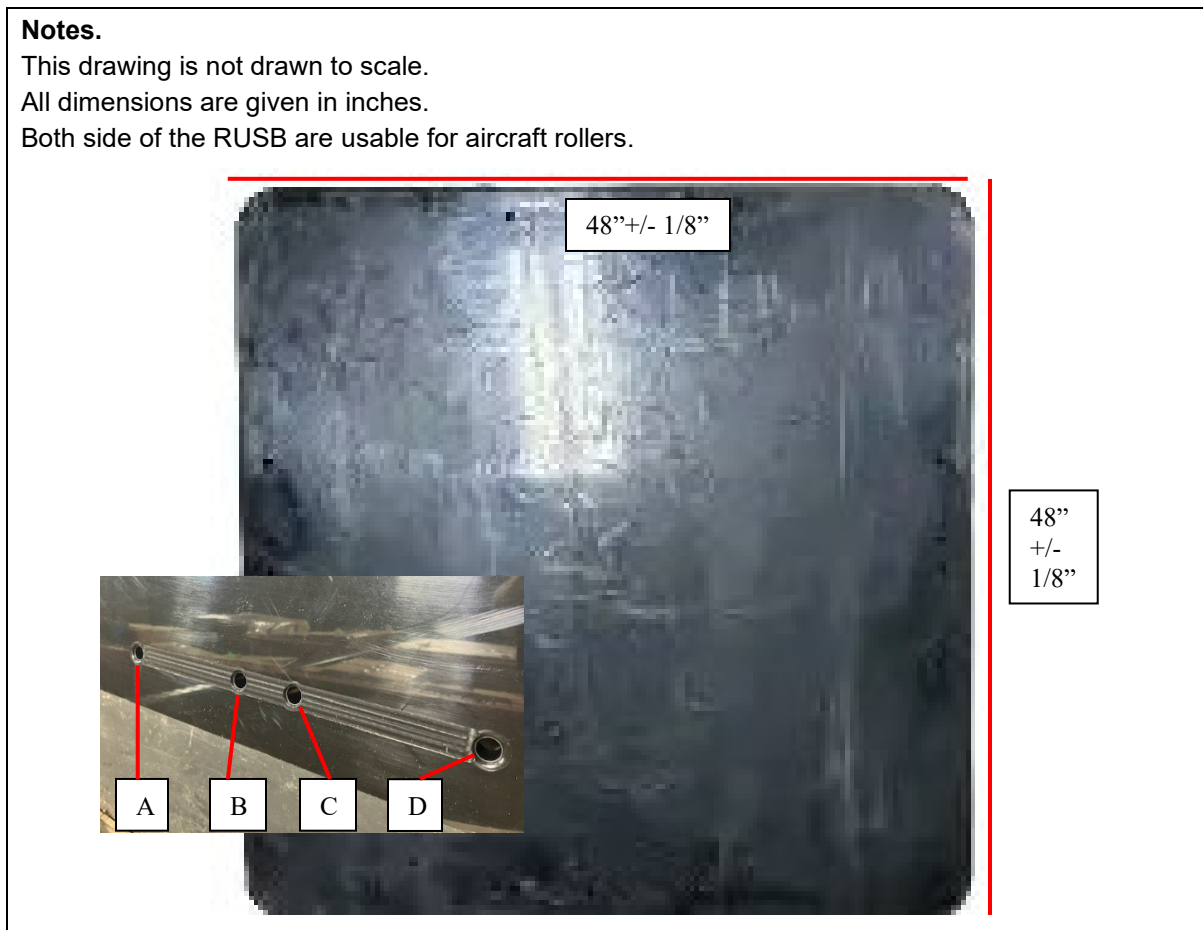
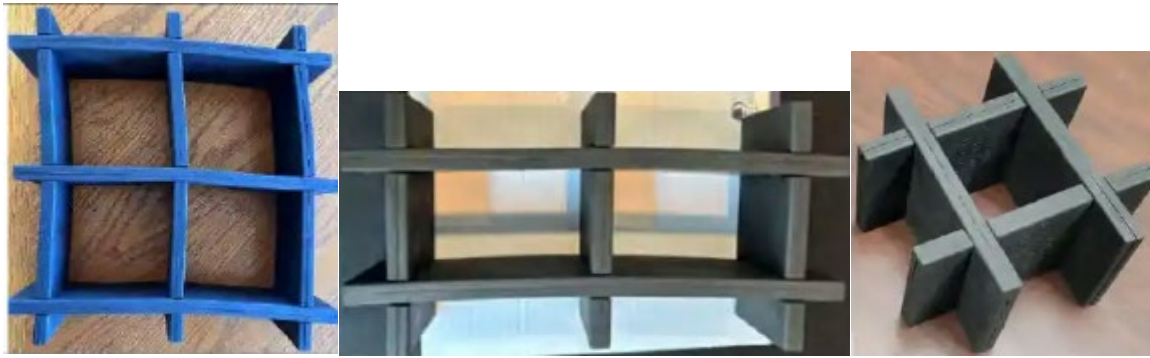


Figure 8-51. RUSB

ASSEMBLING REAL (42"X42")

8-101. Assemble 9 - 12"x12" modules, 6 - 6"x12" modules, and 1 - 6"x6" module as shown in Figure 8-52.



- ① Connect 6 12" pieces in a grid pattern. Ensure all pieces are flush (may use an elastic head hammer if needed).
- ② Connect 2 12" pieces and 3 6" pieces in a grid pattern.
- ③ Connect 4 6" pieces in a grid pattern

Figure 8-52. REAL Assembly

PREPARING RUSB TIES AND POSITIONING REAL

8-102. Prepare the skid board ties and position the REAL on the skid board as shown in Figure 8-53.

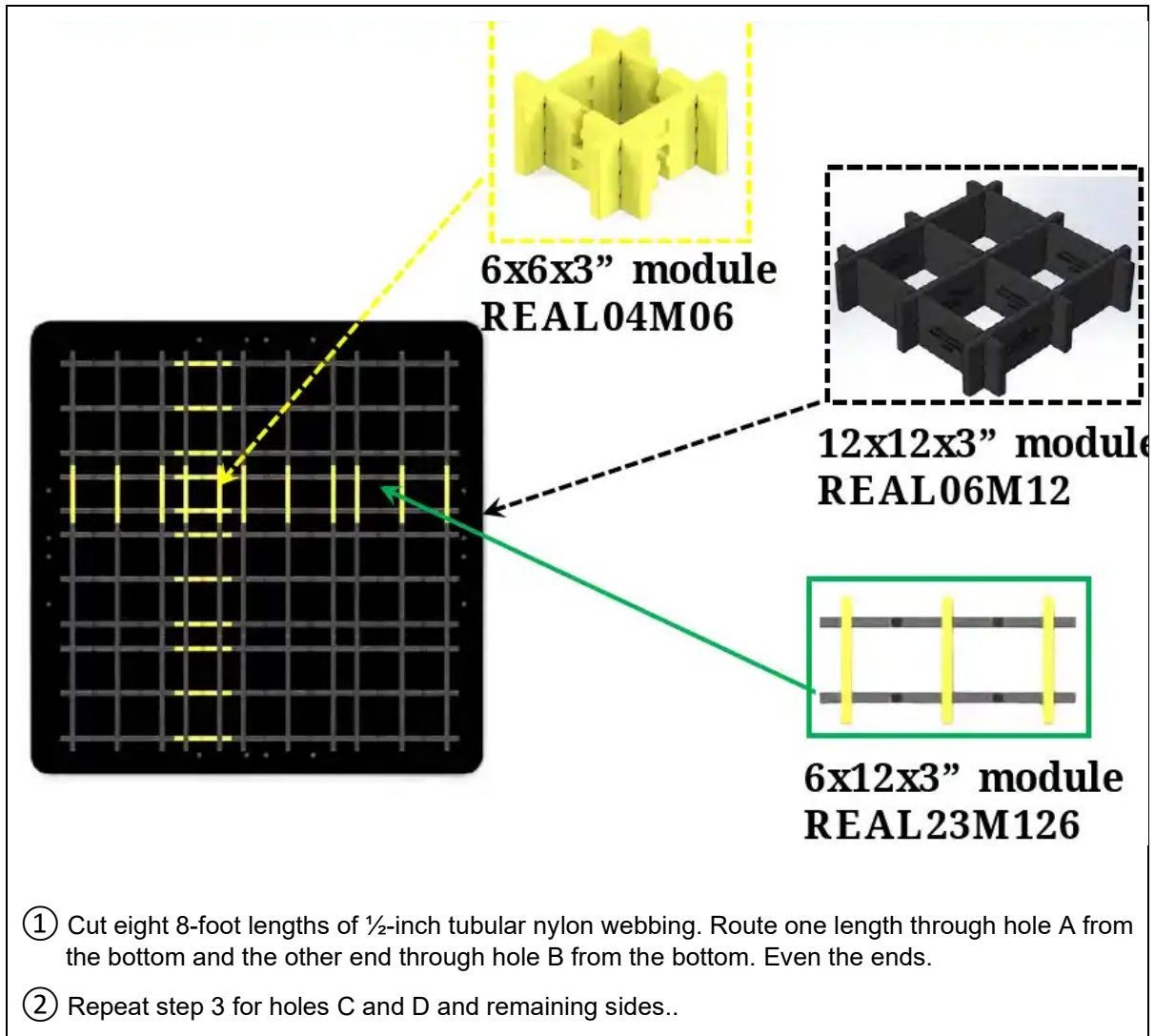


Figure 8-53. RUSB Ties Prepared and REAL Positioned

SECURING THE REAL BELT

8-103. Position the REAL belt around the outside of all REAL modules as shown in Figure 8-54.

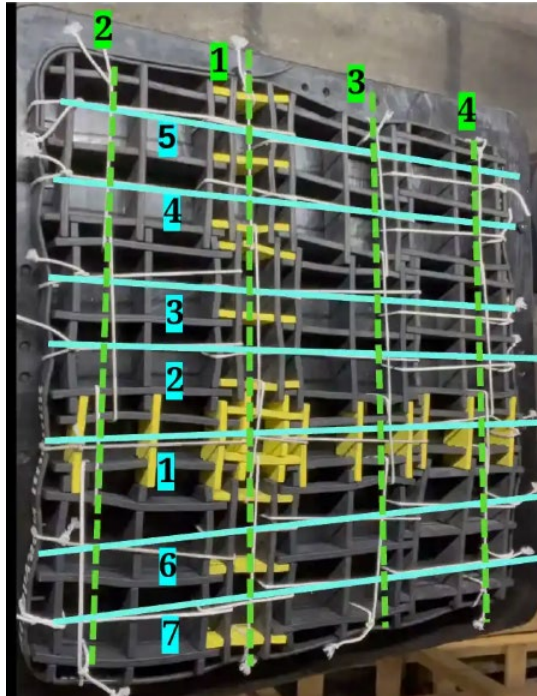


- ① Wrap the belt around the REAL layout. Tension the belt and overlap the extra sections.
- ② Insert the inner part of the belt into the outer belt tensioner. Repeat the same thing with the outer part of the belt into the inner belt tensioner. Ensure approximately 2" are extended past each tensioner.
- ③ It is recommended not to tighten the belt completely until the load is placed on the REAL layout.

Figure 8-54. Securing the REAL Belt

OPTIONAL: SECURING REAL TO RUSB

8-104. Users may secure REAL to the RUSB as shown in Figure 8-55.



- ① Cut 11 – 96" pieces of 1/2" tubular nylon.
- ② Weave the 1/2" tubular nylon between each REAL module as shown.
- ③ Secure each with three-alternating half-hitches and a knot in the running end. Repeat for each tie.

Figure 8-54. OPTIONAL Securing REAL to RUSB

POSITIONING A-22 SLING ASSEMBLY

8-105. Position an A-22 sling assembly as shown in Figure 8-3.

POSITIONING COVER

8-106. Use an optional A-22 cargo bag cover when rigging this load, if needed. Position the covers as shown in Figure 8-3.

POSITIONING LOAD AND CLOSING BAG COVERS

8-107. Center the load so that the weight of the load is evenly distributed. Use honeycomb and cellulose wadding to protect the items. Use cord, tape, or steel strapping to keep the load from shifting. Close the cover as shown in Figure 8-4.

SECURING A-22 CARGO BAG SLING

8-108. Secure the sling assembly as shown in Figure 8-5.

OPTIONAL: MOUNTING THE DROP COUNTER

8-109. Mount the optional drop counter to the base board or load. The counter will need to be numbered the same as the RUSB. This will track the number of drops on that specific RUSB. See Figure 8-55 for the drop counter.

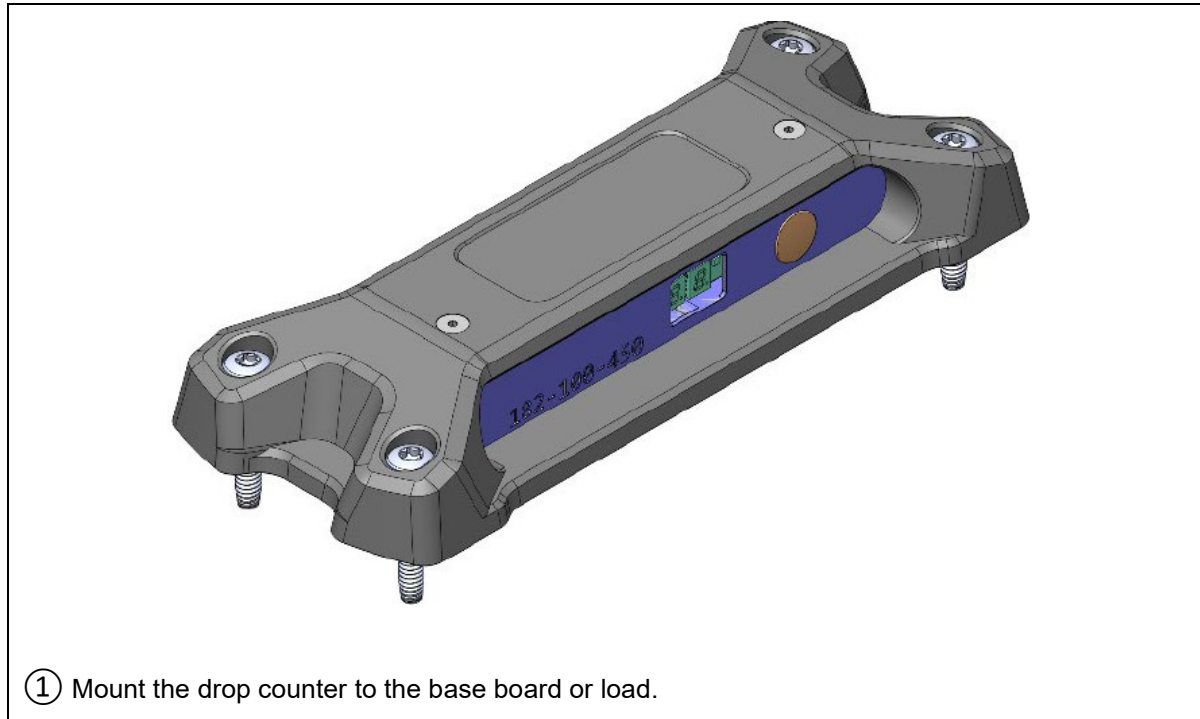


Figure 8-55. OPTIONAL Mounting the Drop Counter

SECURING SKID BOARD TIES

8-110. Secure the skid board ties as shown in Figure 8-6.

INSTALLING SUSPENSION WEBS

8-111. Install suspension webs as shown in Figure 8-7.

INSTALLING PARACHUTE

8-112. Install a cargo parachute according to Chapter 7.

MARKING RIGGED LOAD

8-113. Mark the rigged load according to TM 4-48.03/TO 13C7-1-11. Compute the rigged load data. A Shipper's Declaration for Dangerous Goods may be required.

CAUTION

Make the final rigger inspection required by this manual and AR 59-4/AFMAN 13-210 Vol. 1 before the load leaves the rigging site.



RIGGING LOAD DATA (WITHOUT PARACHUTE)

G-12E cargo parachute	501 – 2,200 pounds
LCADS LCLV cargo parachute.....	501 – 2,200 pounds
26-ft Ring-Slot cargo parachutes.....	501 – 1,600 pounds

Figure 8-56. A-22 RUSB and REAL Rigged for Airdrop

EQUIPMENT REQUIRED

Table 8-14. Equipment Required for Rigging an A-22 with REAL & RUSB

<i>National Stock Number</i>	<i>Item</i>	<i>Quantity</i>
1670-00-587-3421	Bag, cargo, A-22	1
4030-00-678-8562	Clevis, suspension, 3/4-inch (medium)	1
4020-00-240-2146	Cord, nylon, type III	As required
Manufacture Purchase	Reusable Energy Absorbing Layer, REAL	1 set
	Parachute:	
1670-01-065-3755	Cargo, G-12E	1
1670-00-216-7297	Pilot, 68-inch diameter	1
	OR	
1670-01-547-0401	Parachute, cargo, Low Cost Low Velocity	1
	OR	
1670-00-872-6109	Parachute, cargo, 26-foot	1
Manufacture Purchase	Reusable Universal Skid Board, RUSB:	1
	1- by 48- by 48-inch	
5340-00-360-0560	Suspension Web	4
7510-00-266-6710	Tape, masking, 2-inch	As required
8310-01-102-4478	Thread, cotton, ticket number 8/7	As required
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-inch	As required