

Dry Ice Loading Instructions

For 21L and 29L CoolBoxus Boxes

1. Overview

This are instructions on how the 21L and 29L CoolBoxus shippers were loaded for the ISTA 7E Summer Profile test for frozen applications. The procedure include:

- a) one CoolBoxus 21L box,
- b) one CoolBoxus 29L box,
- c) Plastic bags (9 bags for 21L, 13 bags for 29L),
- d) Two cardboard payload boxes (one each for 21L and 29L),
- e) At least 66 lbs of dry ice pellets (ISTA tests used approximately 80 lbs)

2. Preparation

- a) Assemble the CoolBoxus Shippers.
- b) Put dry ice into plastic bags provided and fold over the ends.
 - a) for 21L box: at least 27lbs (9 bags @ 3lbs)
 - b) for 29L box: at least 39lbs (13 bags @ 3lbs)
 - c) if any dry ice remains, please pack into box.

3. Loading Instructions

Step 1: Put one 3lbs bag on bottom of insulated box.

Step 2: Put payload box on top of dry ice bag.

Step 3: Put four dry ice bags on four sides of the payload box.

Step 4: Put remaining dry ice bags on top of the payload box, and pack box with loose dry ice.

Step 5: Close lid

Step 6: Close Velcro flaps

Preparation – Box Assembly

◆ How to assemble

1. Remove Velcro straps.



2. Expand box.



3. Swivel one side.



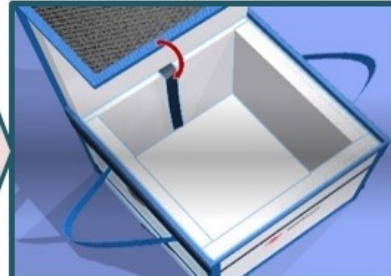
4. Swivel other side.



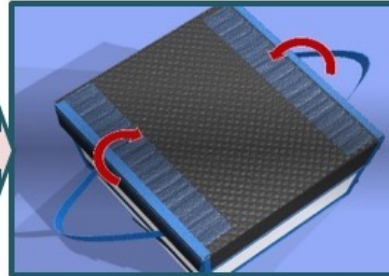
5. Swivel bottom.



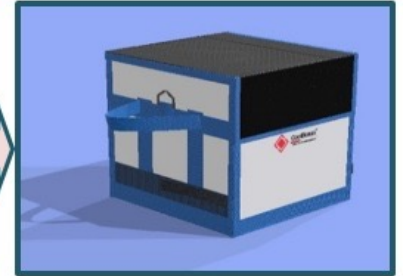
6. Close lid.



7. Close flaps.



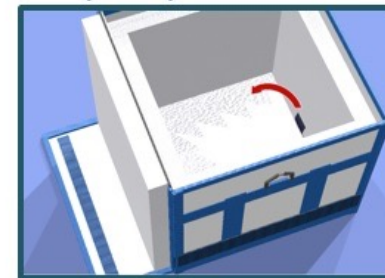
8. Completed.



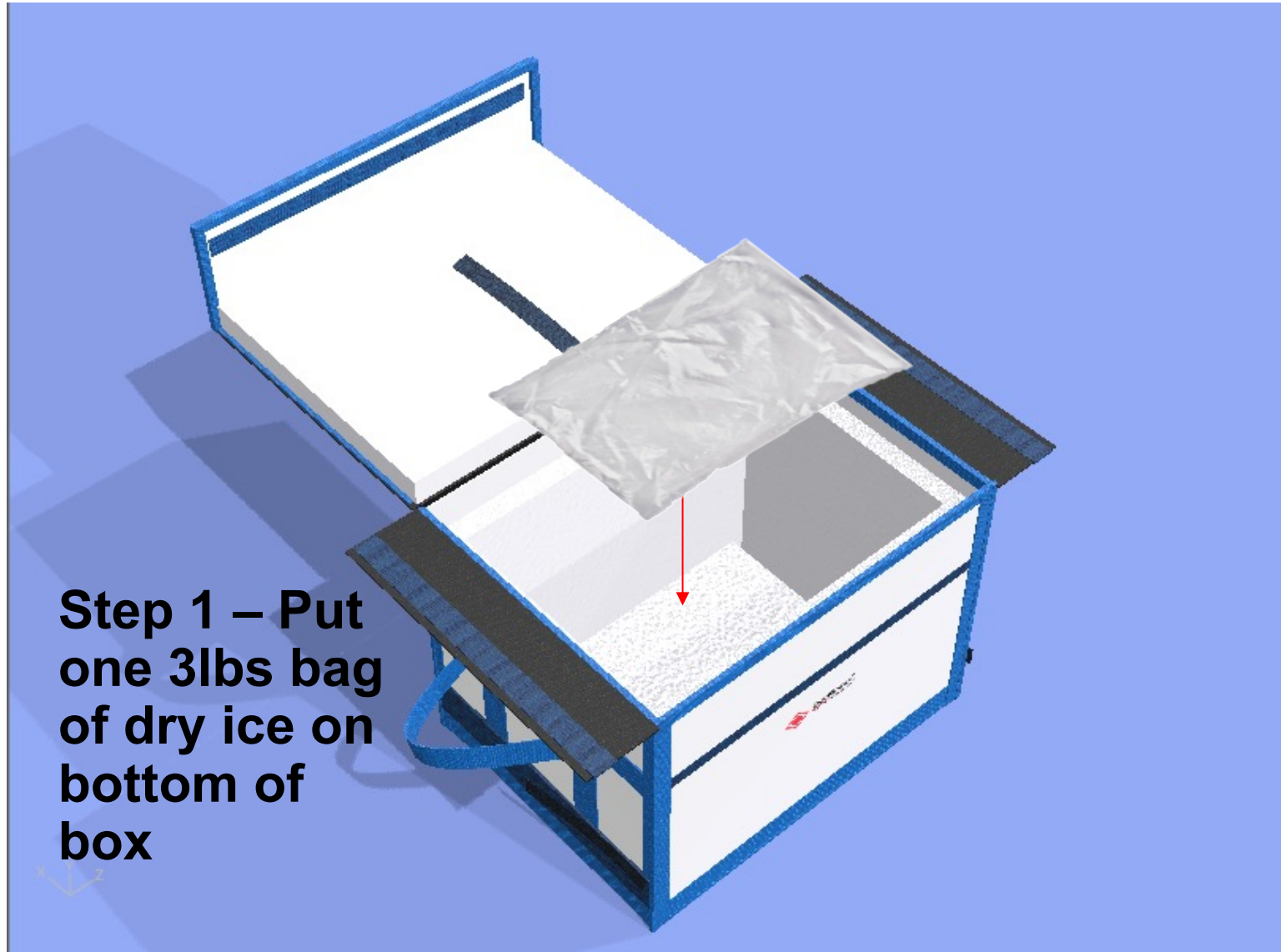
◆ How to fold

Reverse the above assembly process to fold.

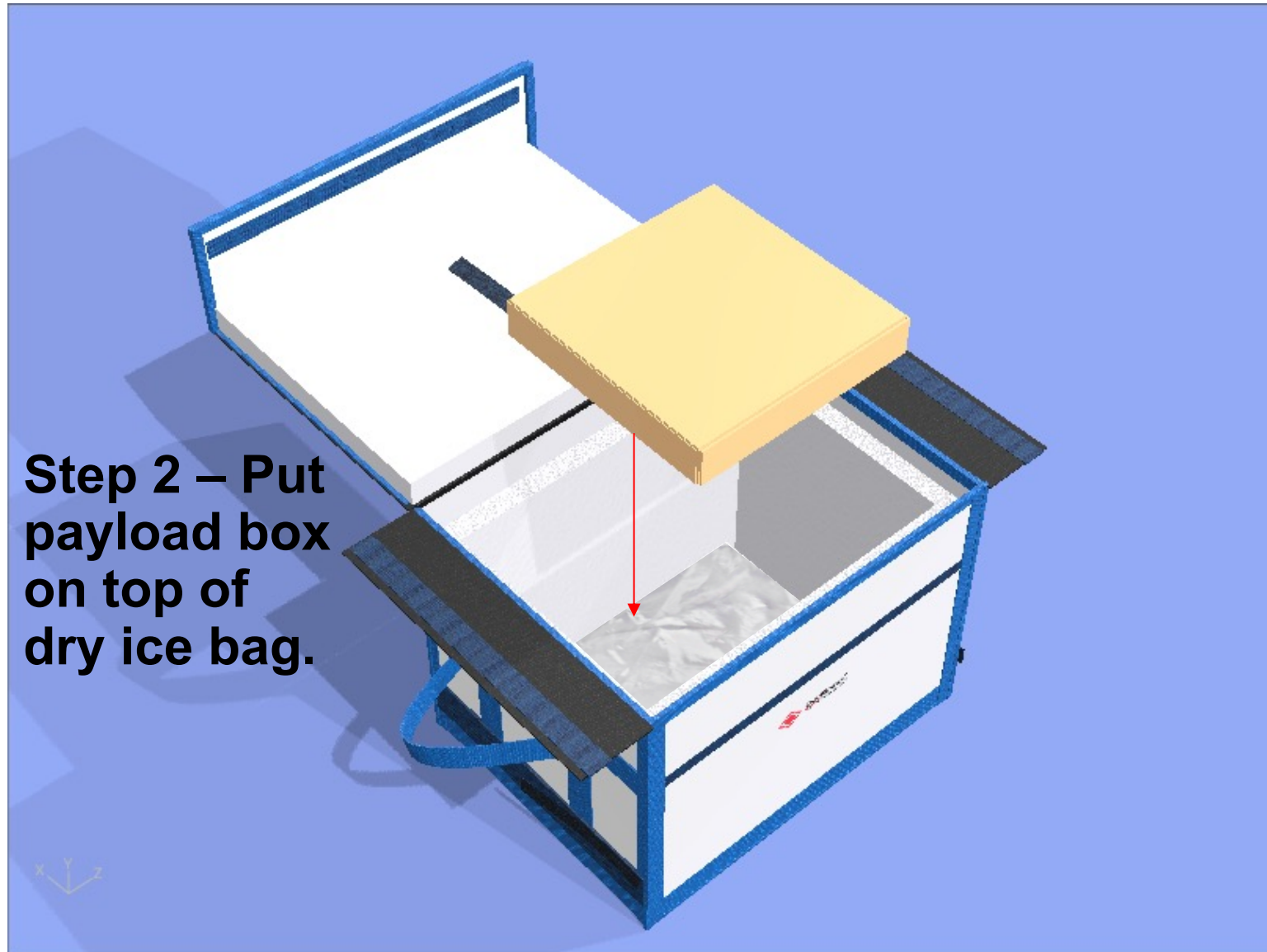
Note: When folding, in step 5, hook finger in tab and pull up to swivel bottom.



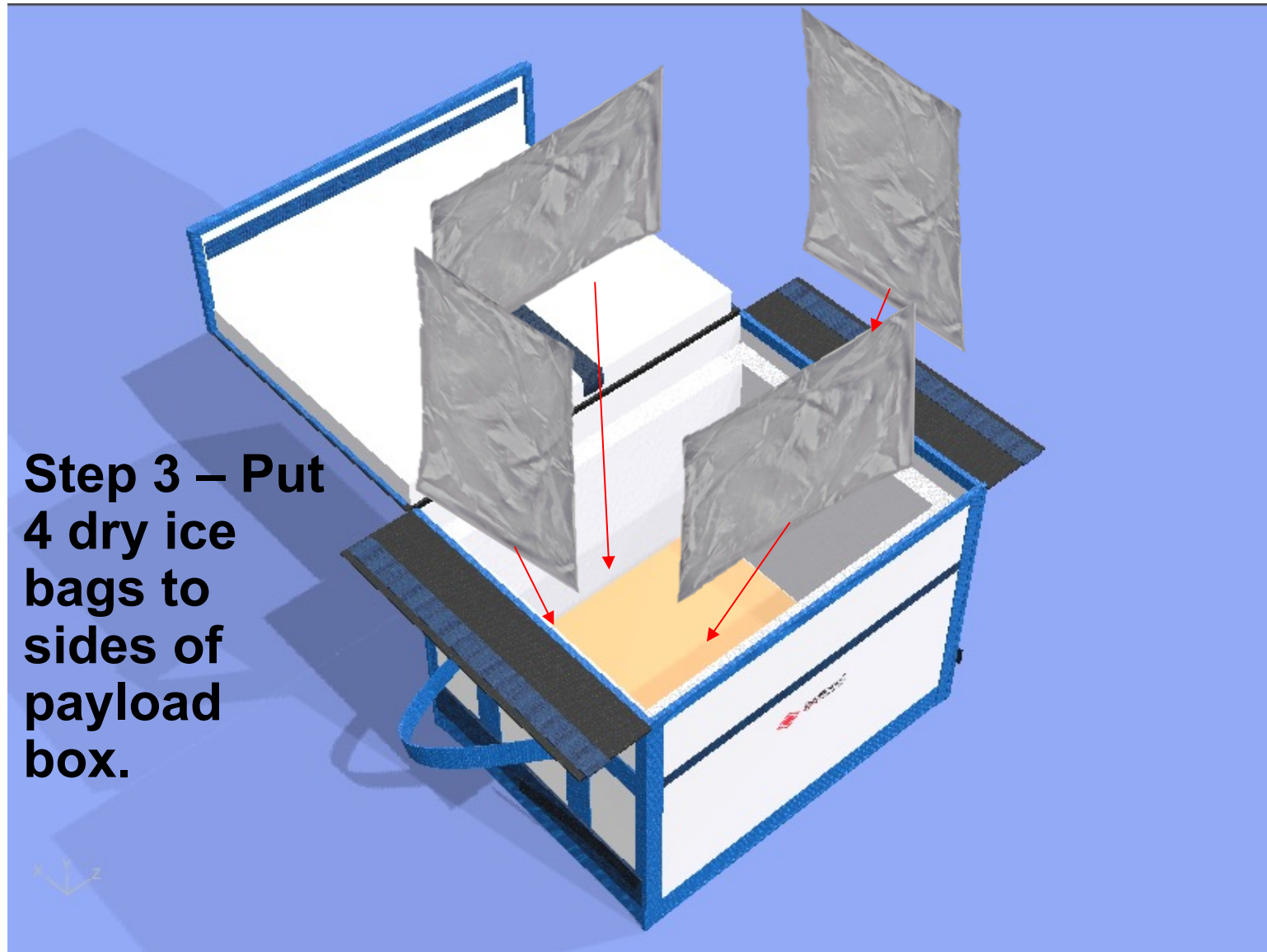
Loading Instructions – Step 1



Loading Instructions – Step 2



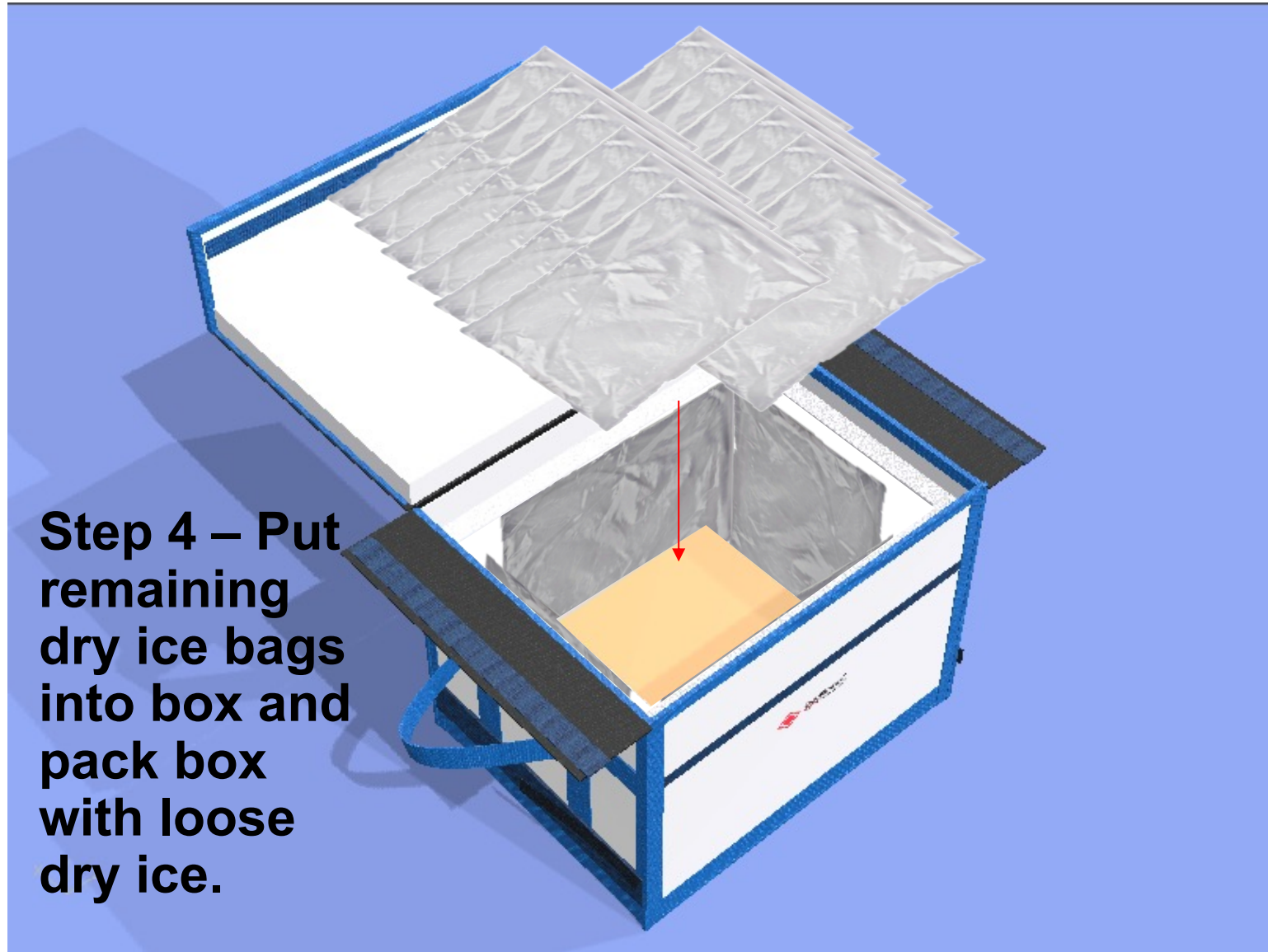
Loading Instructions – Step 3



**Step 3 – Put
4 dry ice
bags to
sides of
payload
box.**

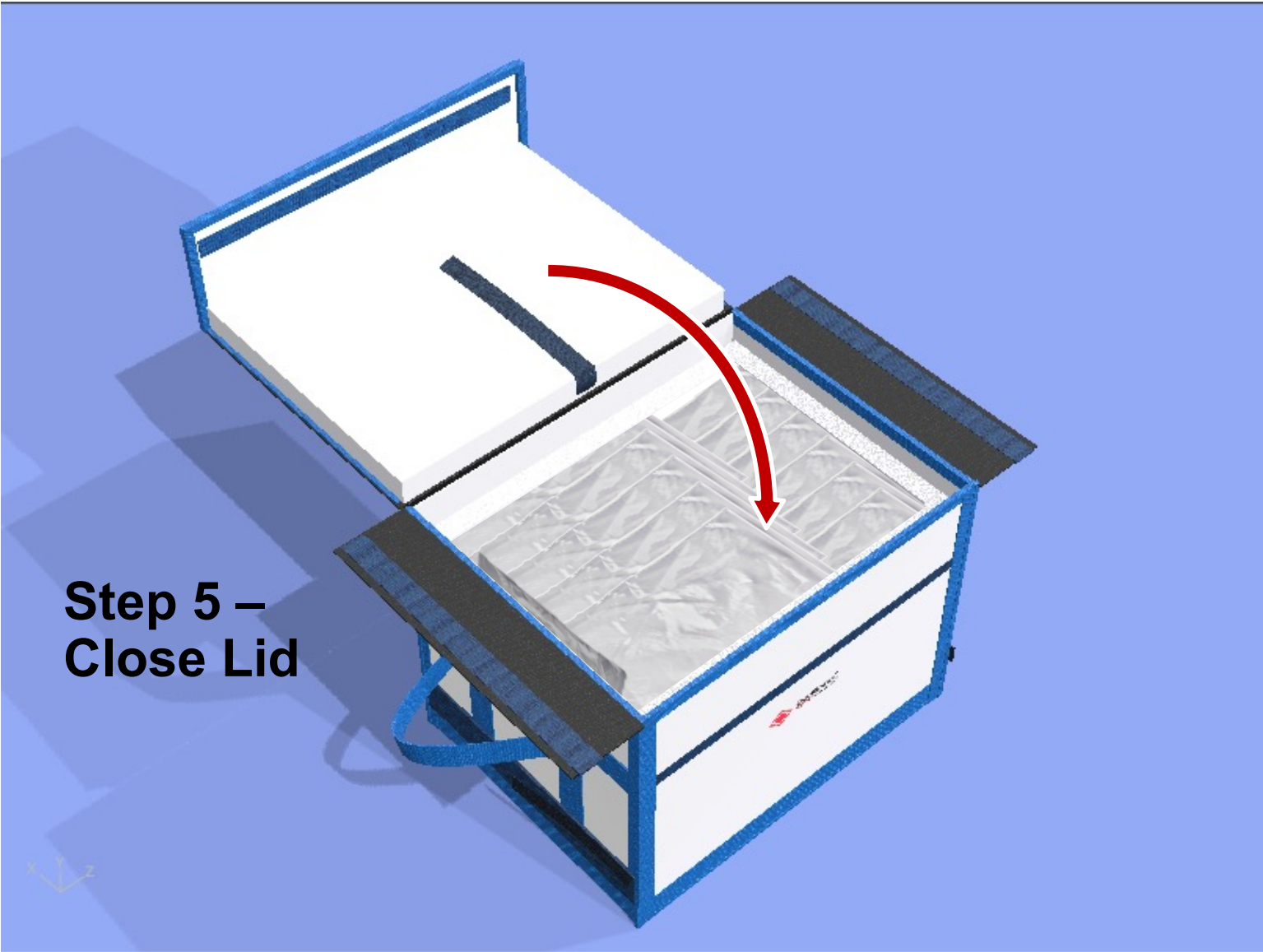


Loading Instructions – Step 4

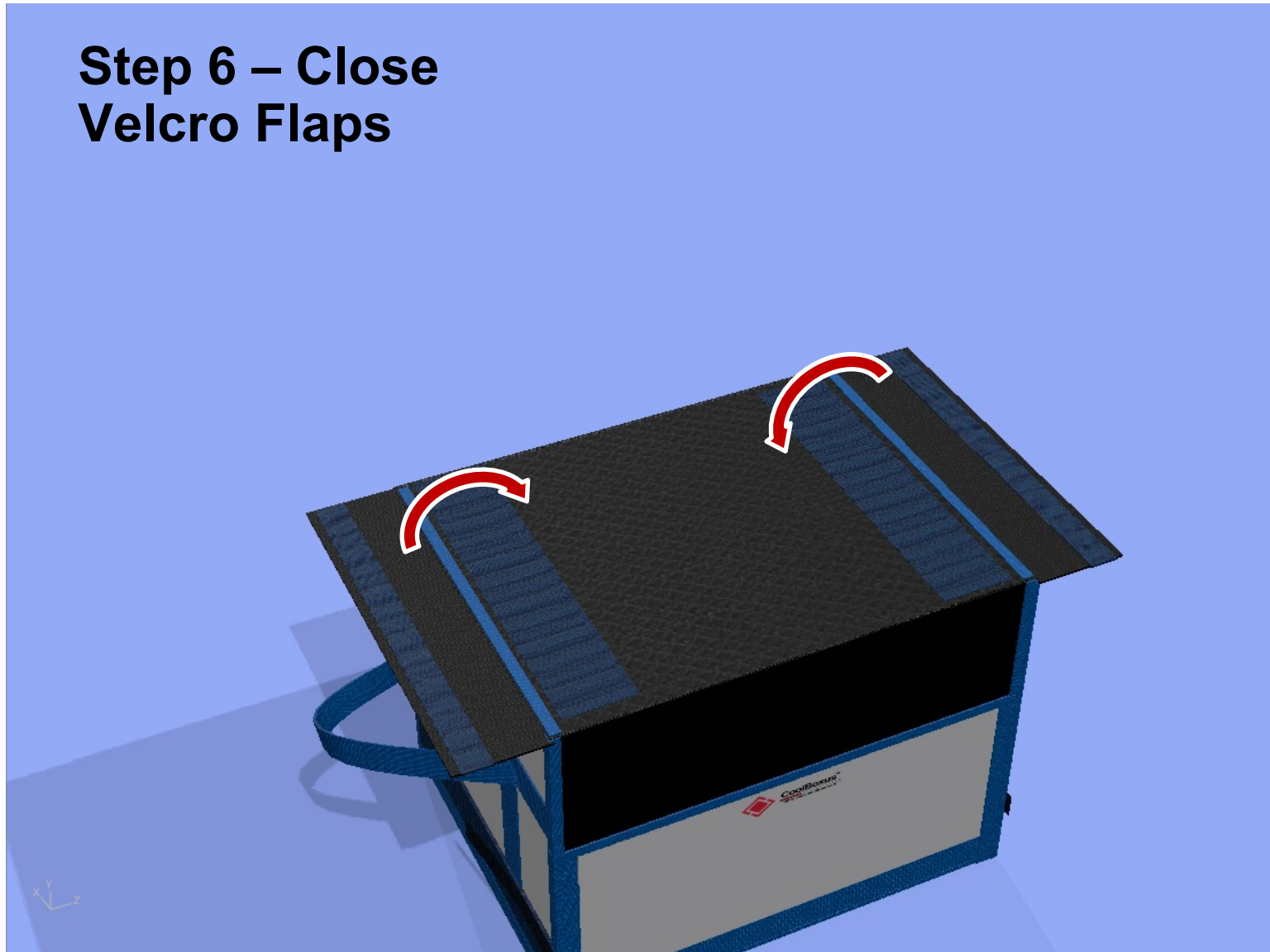


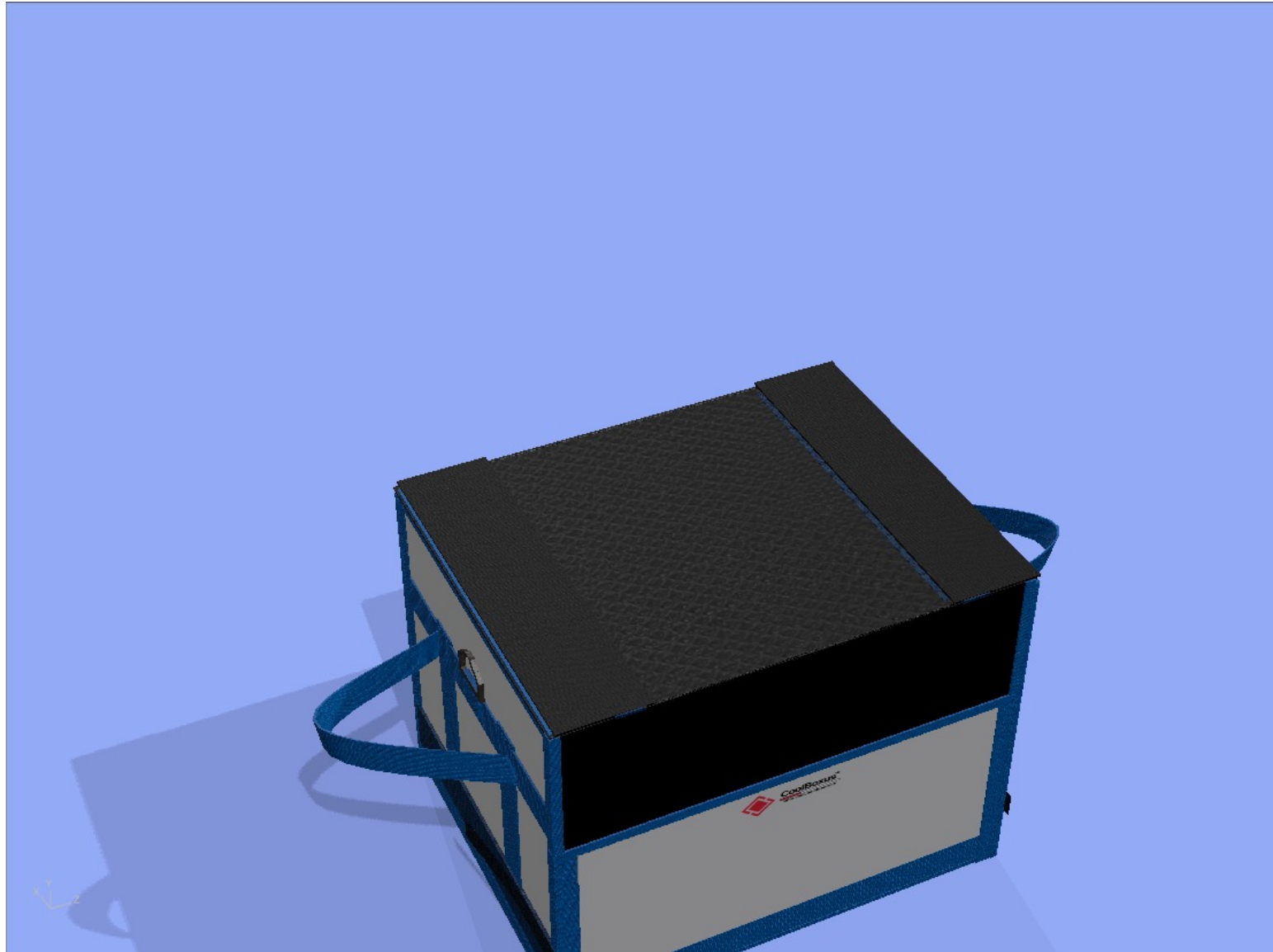
Step 4 – Put remaining dry ice bags into box and pack box with loose dry ice.

Loading Instructions – Step 5

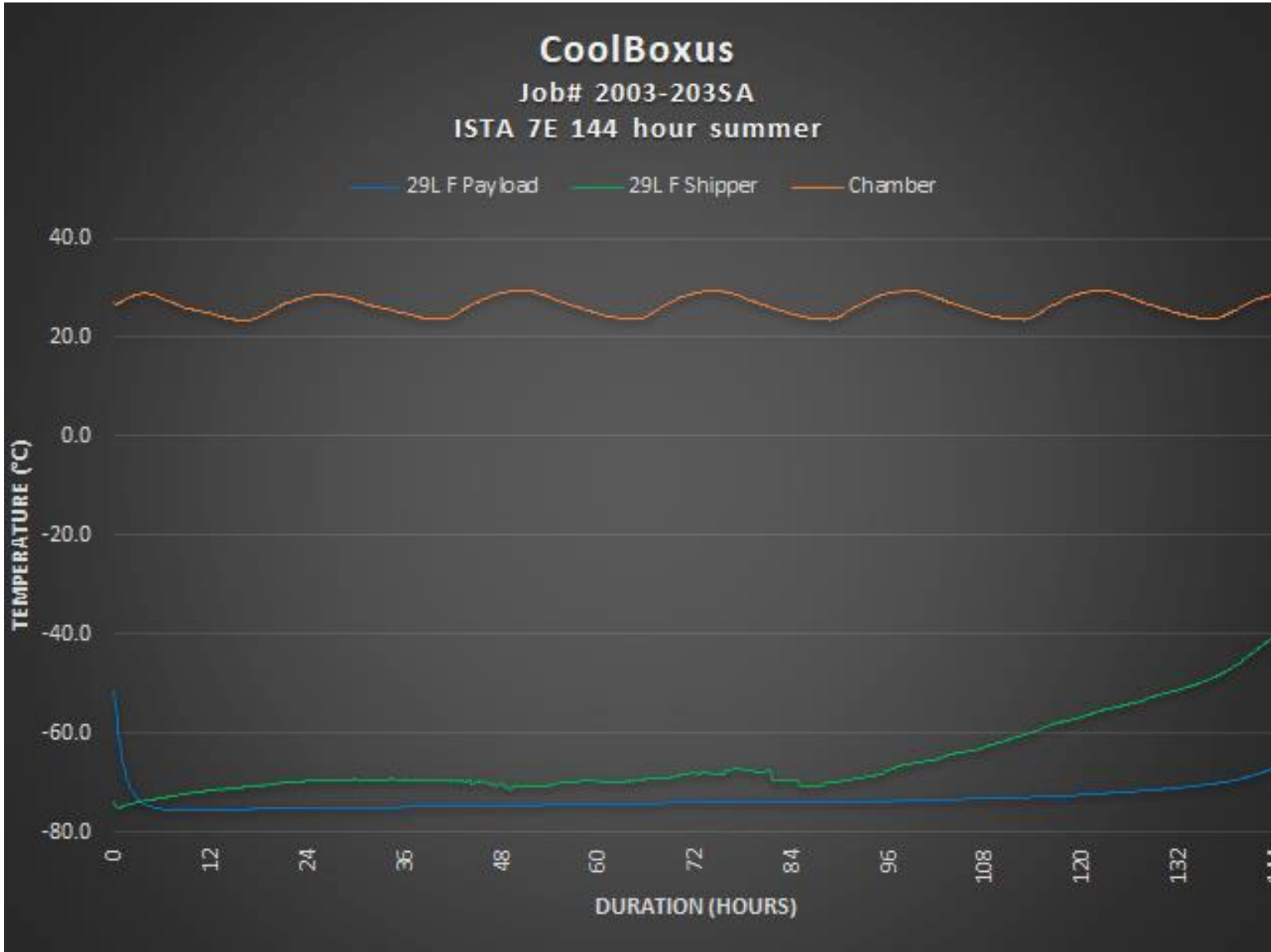


Step 6 – Close Velcro Flaps



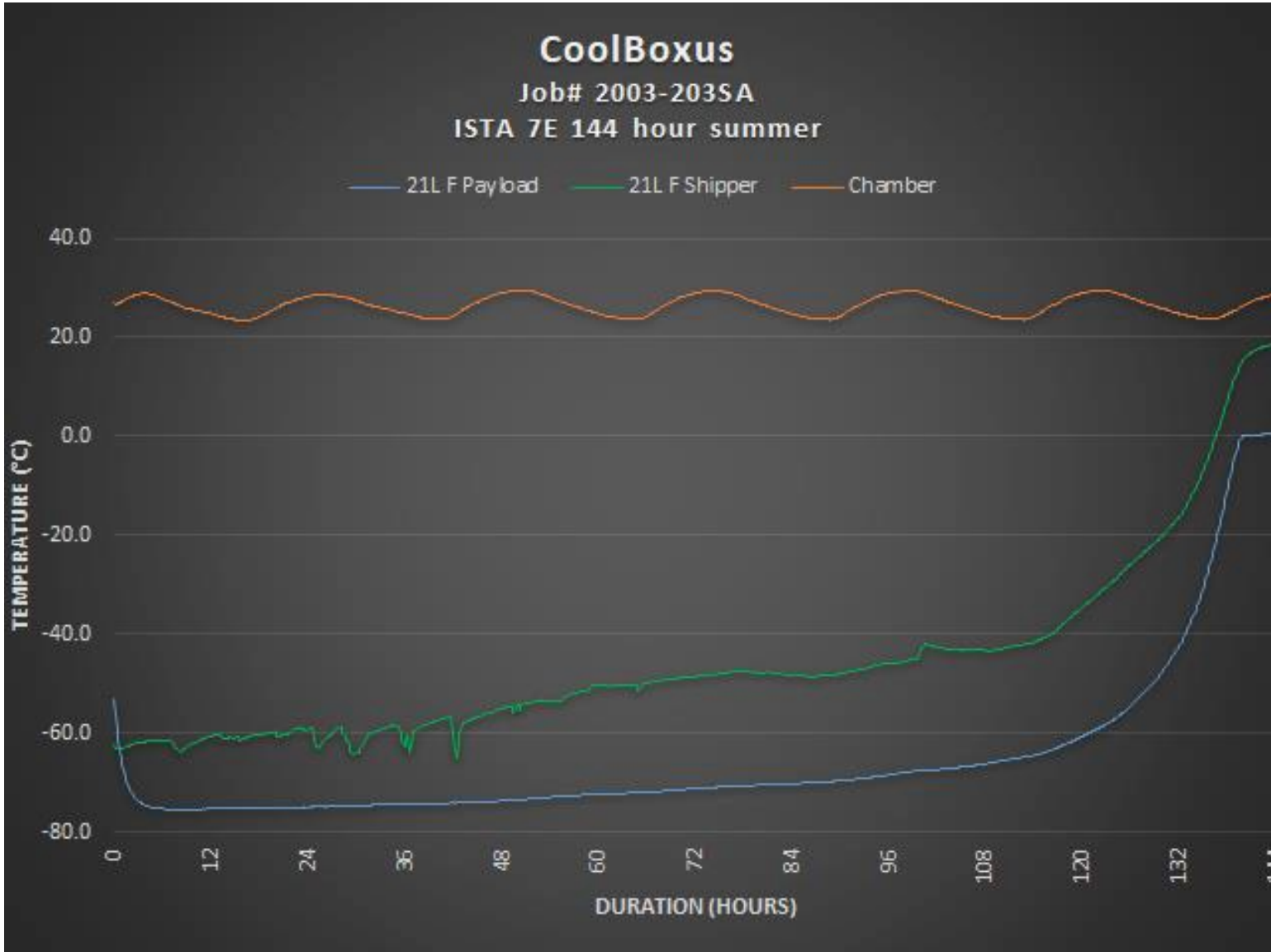


ISTA 7E 144 Hour Summer Profile for 29L



Graph extracted from Keystone Package Testing Report #2003-203SA-2 Rev A

ISTA 7E 144 Hour Summer Profile for 21L



Graph extracted from Keystone Package Testing Report #2003-203SA-1 Rev A