

## 29 2-8C Test Loading Instructions

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4 Cooled to +2C  
14 Cooled to -20C

1. Please note that these instructions are provided for reference only and is not intended to guarantee fitness of use for any particular application.
2. Please take necessary precautions when handling cold objects such as dry ice and frozen gel packs.
3. Please make sure that the boxes are assembled properly and there are no gaps when closed.
4. When shipping 2-8C products, please ensure that the payload only comes in contact with the chilled gel packs.
5. We recommend that you label the Gel Packs to indicate whether they are frozen or chilled to avoid any confusion.

## 1. Overview

These are instructions on how the 29L CoolBoxus shippers were loaded for the ISTA 7E Summer Profile test for maintaining 2-8C. The procedure include:

- a) One CoolBoxus 29L box
- b) Eighteen (18) Solee 5C PCMs
- c) Payload box maximum size 270mm (10.5 inches) x 390mm (15 inches) x 45mm (1.75 inches).

## 2. Preparation

- a) Assemble CoolBoxus shippers.
- b) Cool 4 x 5C Gel Packs to +6C for 24 hours.
- c) Cool 14 x 5C Gel Packs to -20C for 24 hours.

## 3. Loading Instructions

Step 1: Put two rows of 3 frozen Gel Packs (F1~F6) in bottom of box

Step 2: Put 2 chilled ice packs (C1, C2) on top of frozen Gel Packs (F1~F6)

Step 3: Put payload box on top of chilled Gel Packs (C1, C2)

Step 4: Put 2 chilled Gel Packs (C3, C4) on top of payload box

Step 5: Put two rows of 4 frozen Gel Packs (F7~F14) on top of chilled Gel Packs (C3, C4).

Step 6: Close lid

Step 7: Close Velcro flaps



**Ensure that only chilled ice packs come in contact with the payload box.**



**Label the chilled and frozen gel packs so that there is no confusion.**

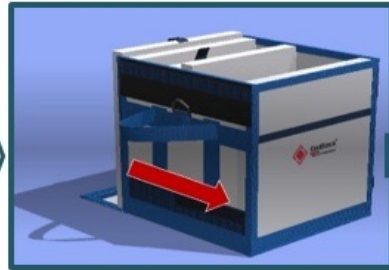
# Preparation – Box Assembly

## ◆ How to assemble

1. Remove Velcro straps.



2. Expand box.



3. Swivel one side.



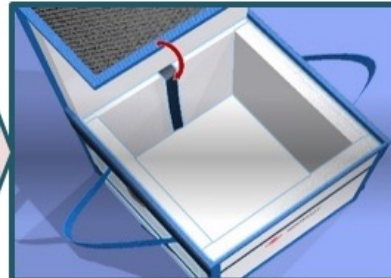
4. Swivel other side.



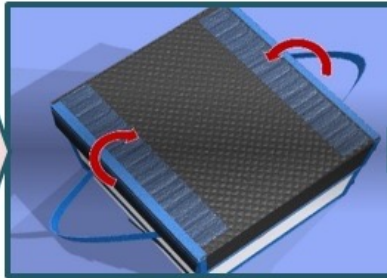
5. Swivel bottom.



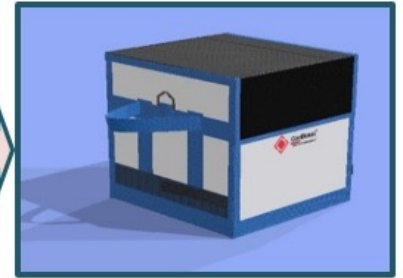
6. Close lid.



7. Close flaps.



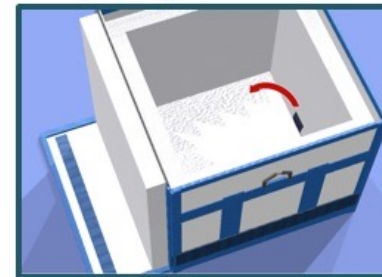
8. Completed.



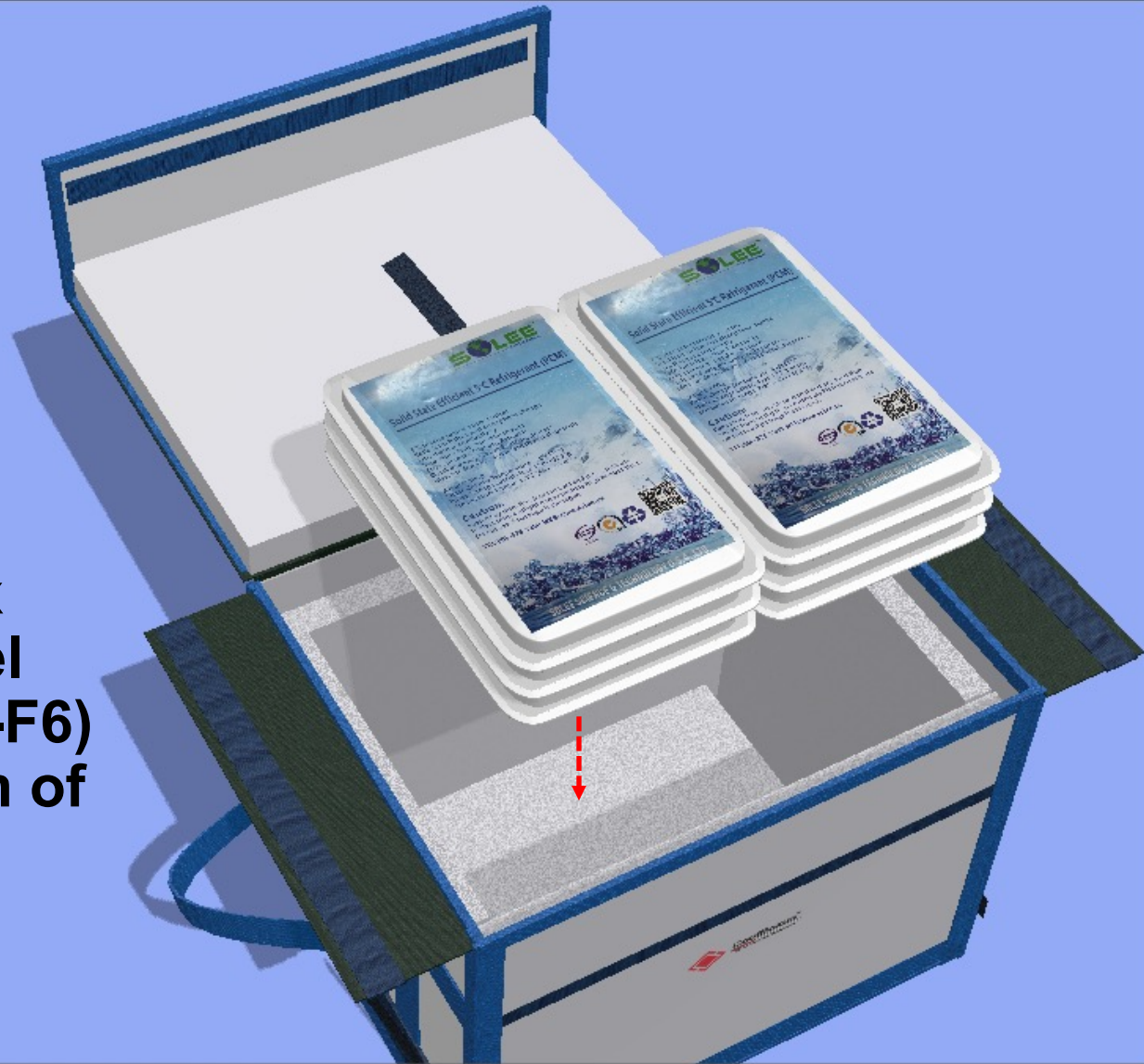
## ◆ How to fold

Reverse the above assembly process to fold.

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

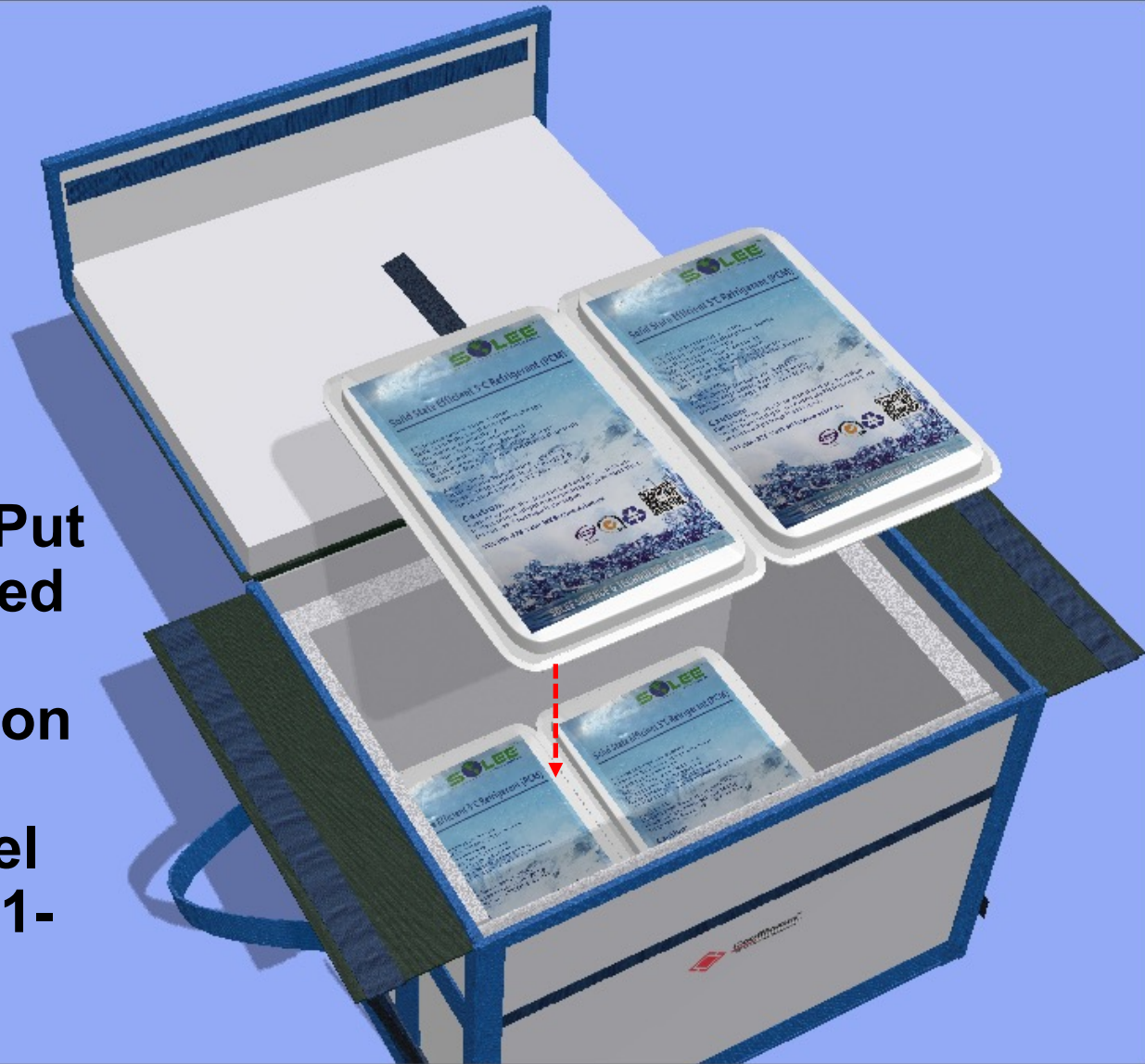


**Step 1 -  
Insert six  
frozen gel  
pack (F1-F6)  
in bottom of  
box**

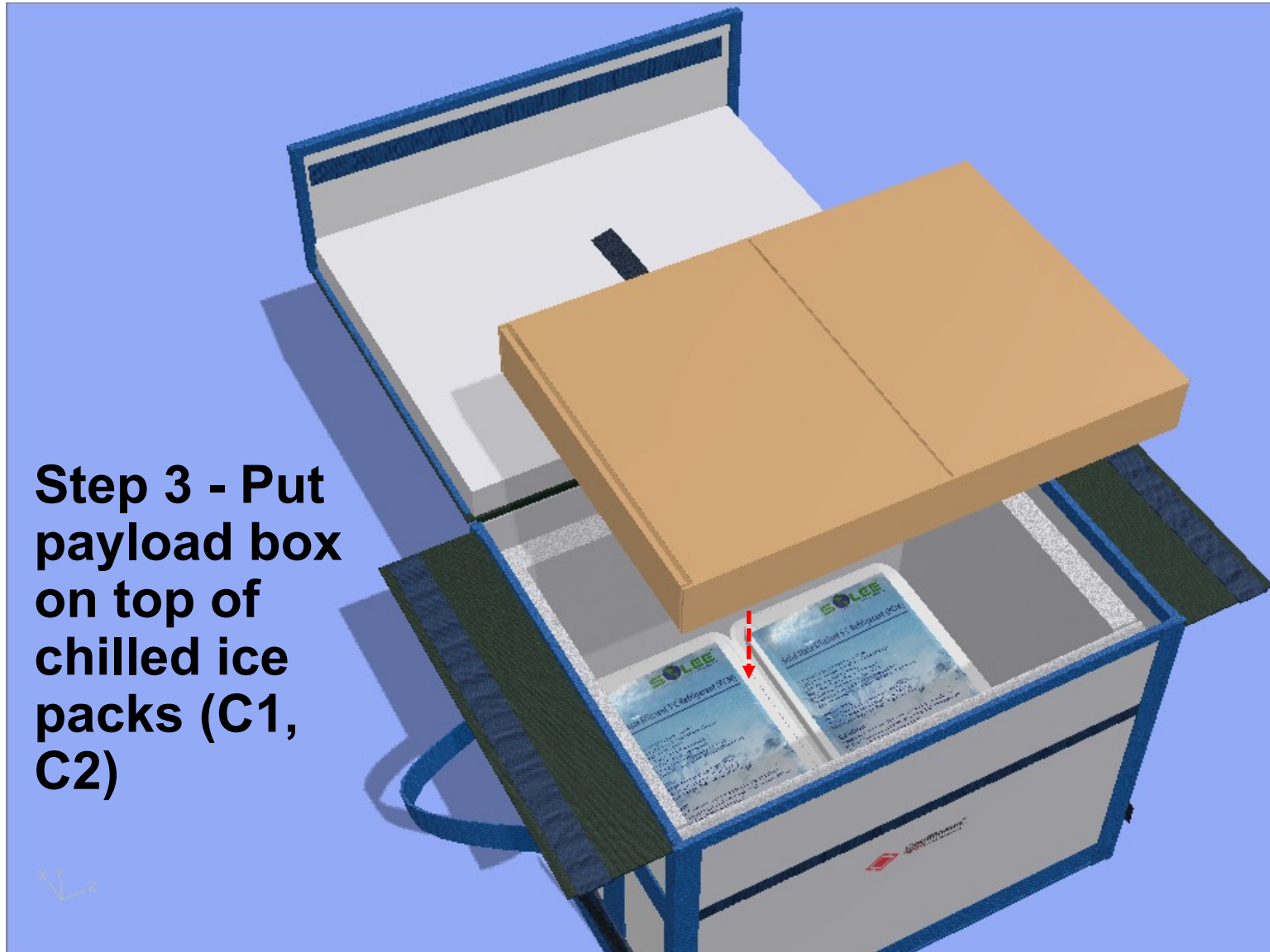




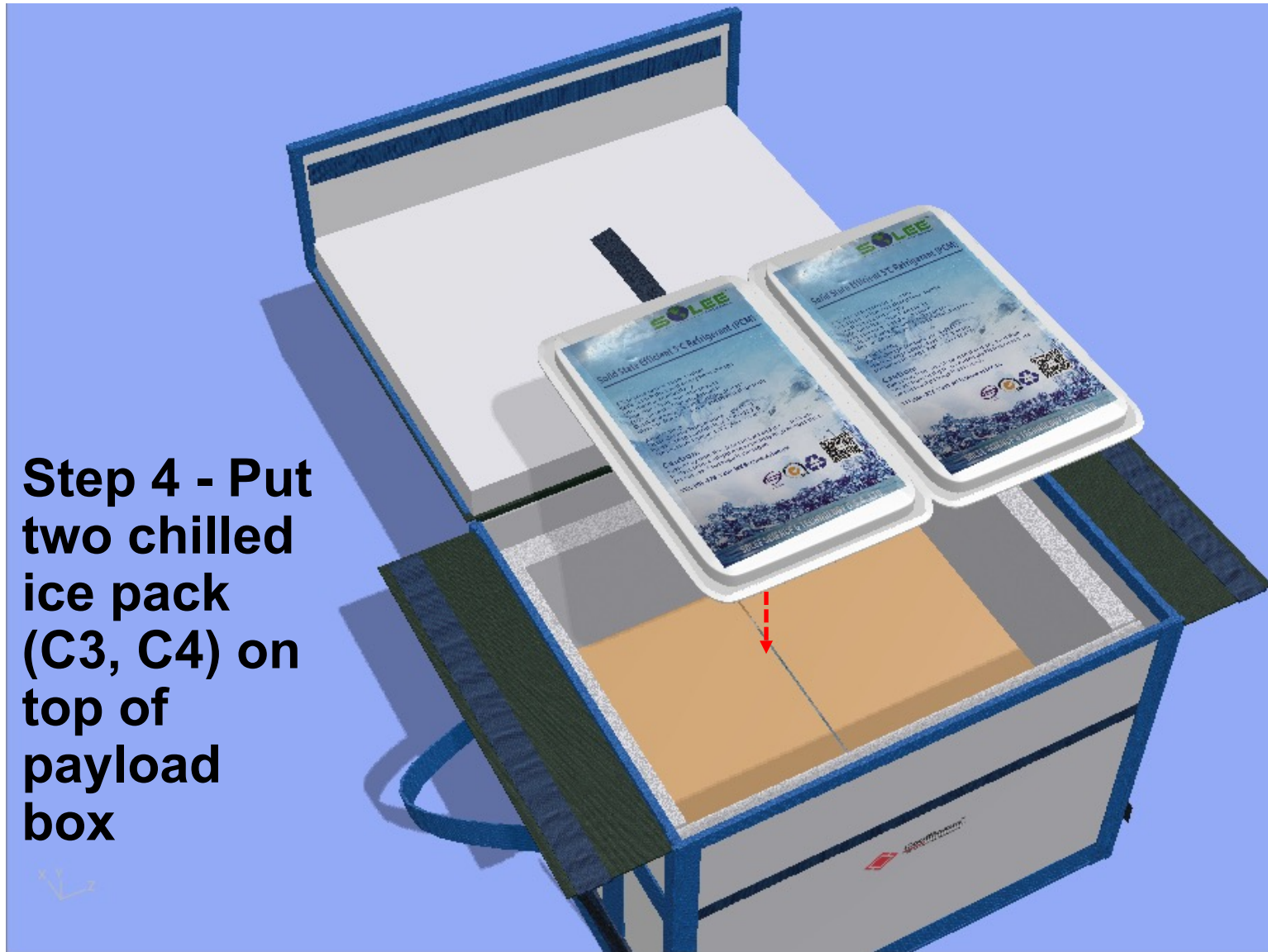
**Step 2 - Put  
two chilled  
ice pack  
(C1, C2) on  
top of  
frozen gel  
packs (F1-  
F6)**



**Step 3 - Put  
payload box  
on top of  
chilled ice  
packs (C1,  
C2)**



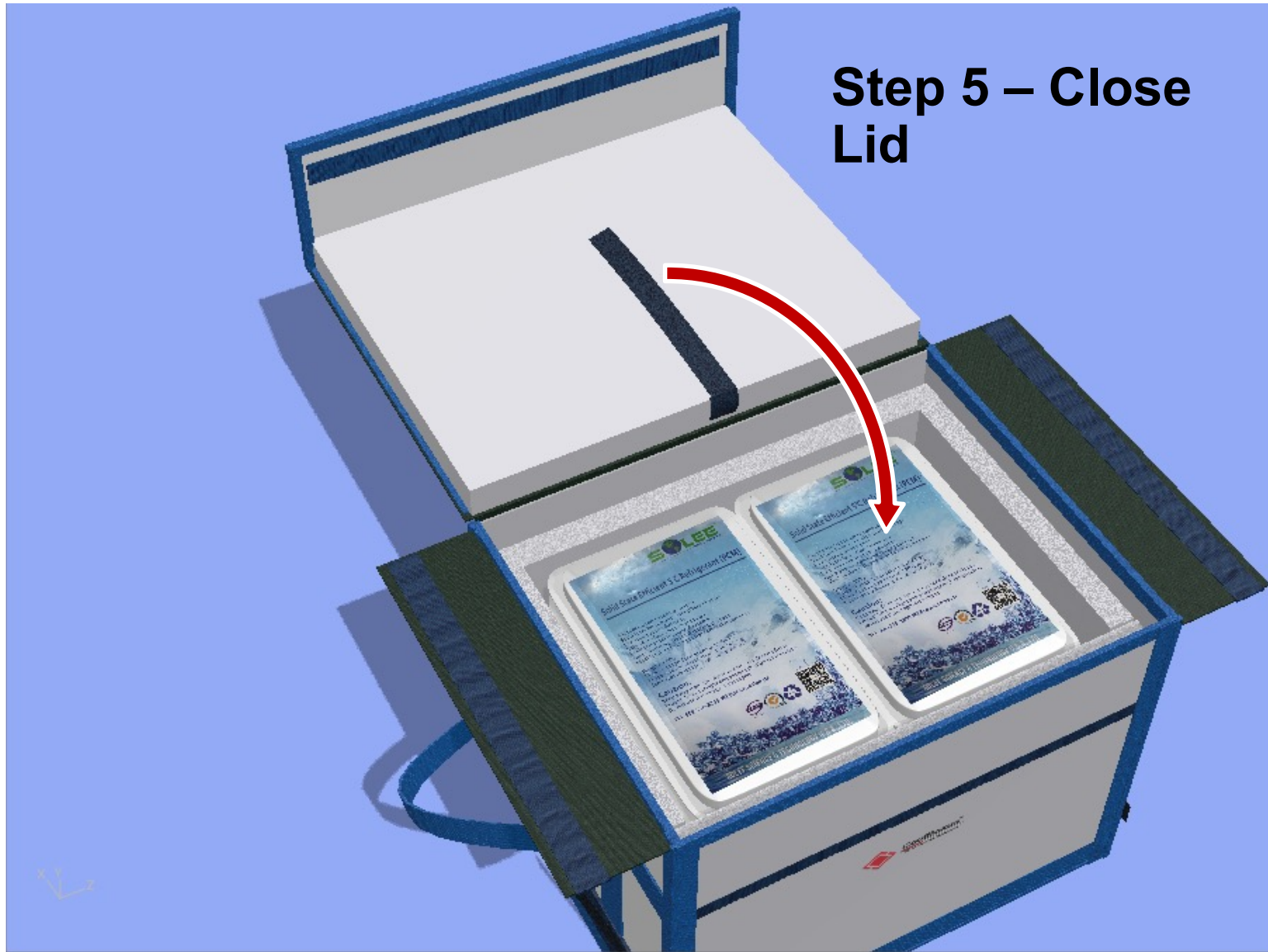
**Step 4 - Put  
two chilled  
ice pack  
(C3, C4) on  
top of  
payload  
box**



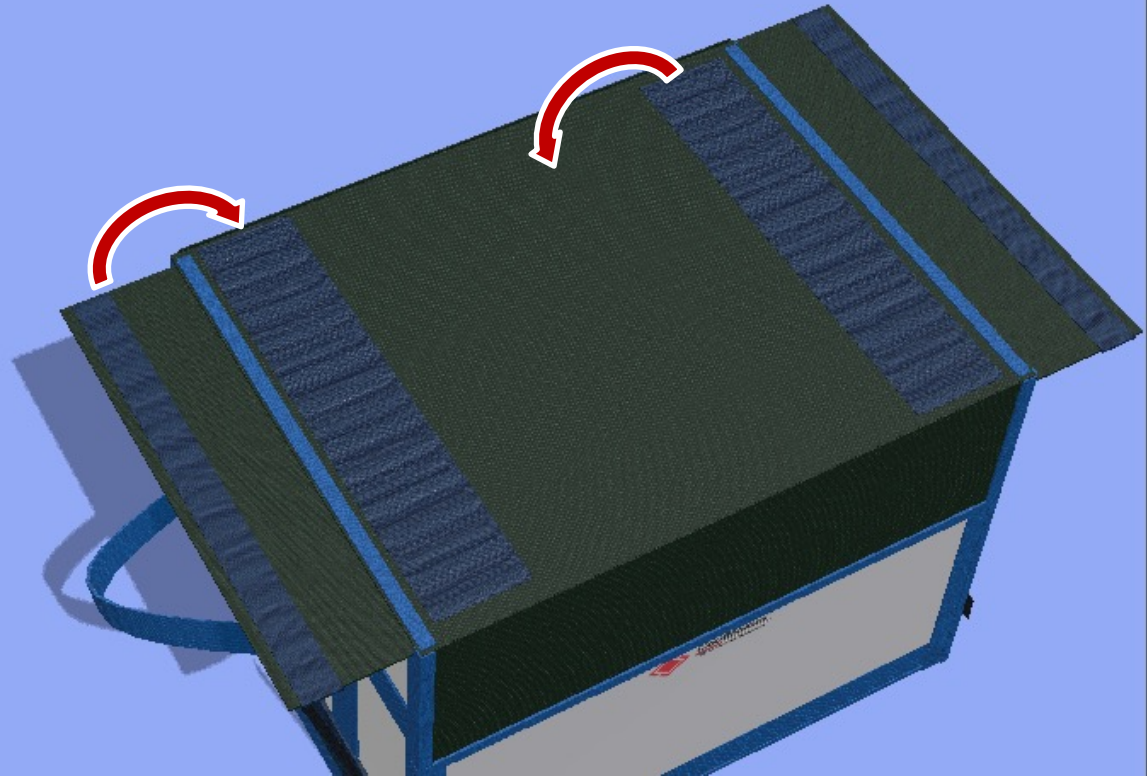


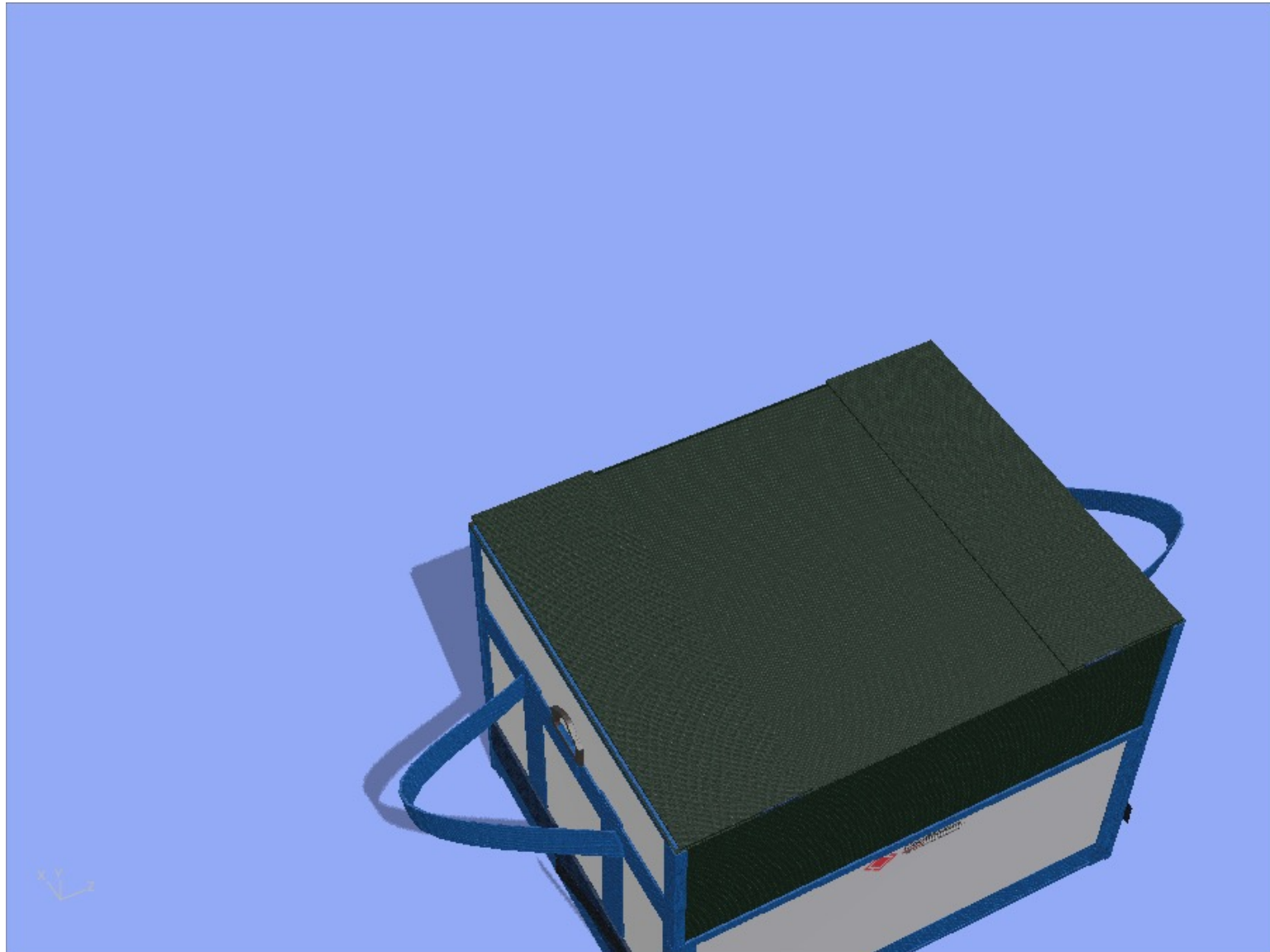
**Step 5 - Put  
eight frozen  
ice packs  
(F7-F14) on  
top of  
chilled ice  
packs  
(C3,C4)**





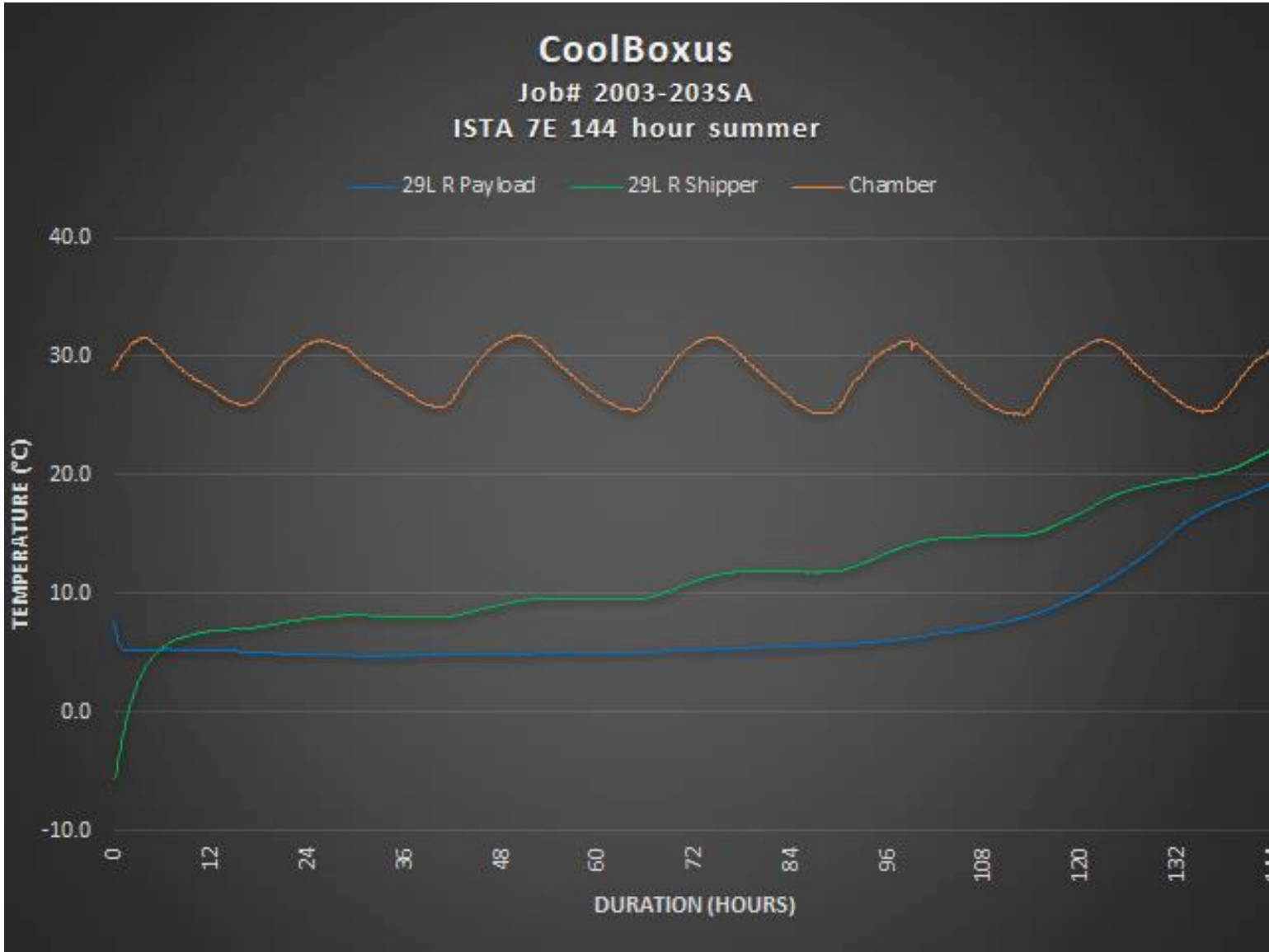
## Step 6 – Close Velcro Flaps







# ISTA 7E 144 Hour Summer Profile for 29L



Graph extracted from Keystone Package Testing Report #2003-203SA-4 Rev A