

# OPUS<sup>®</sup> Columns 45 - 80 cm internal diameter (ID)

## Packaging Instructions



## OPUS® Columns 45 - 80 cm Packaging Instructions

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Full User Guide available at  
[www.repligen.com/resources/quality](http://www.repligen.com/resources/quality)

## 1. Read Prior to Moving the Column into the Box

- The Side Guard for each column must be secured in place between the black Top Cap and Bottom Cap for proper fit of the packaging
- All external surfaces should be wiped down to remove debris and salt deposits prior to packaging the column for shipment
  - o Common cleanroom solution or Isopropyl Alcohol is sufficient

Figure 1. OPUS® Column packaging, 45 - 80 cm ID

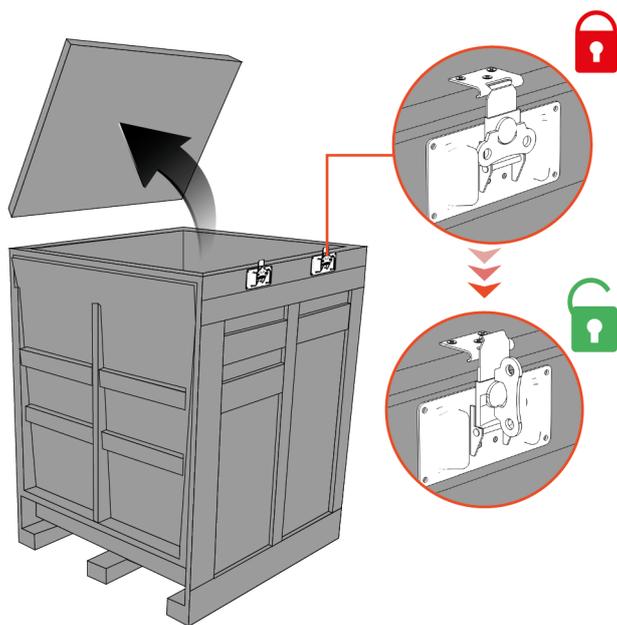


## 2. Required tools

Drill or electric screwdriver with Philips driver/tip.

**Step 1**

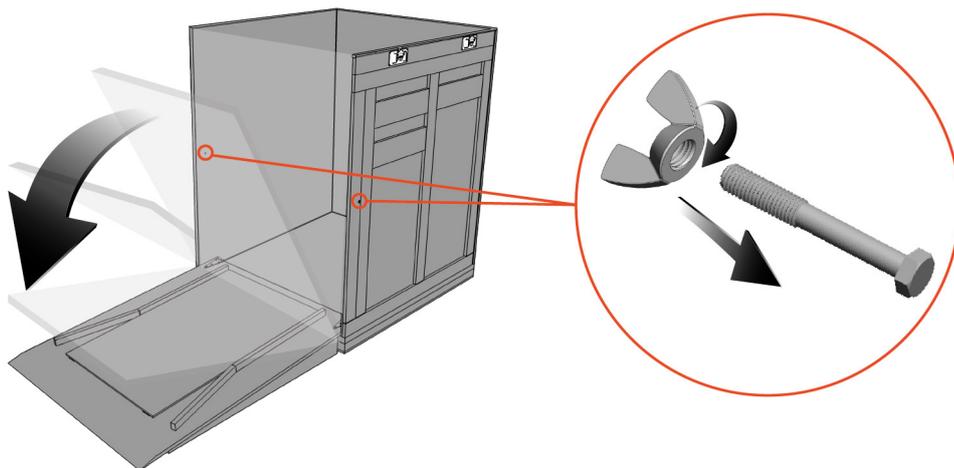
**Figure 2. Latch opening**



- Open each quarter-turn latch (x6)
- Remove the cover and set aside

**Step 2**

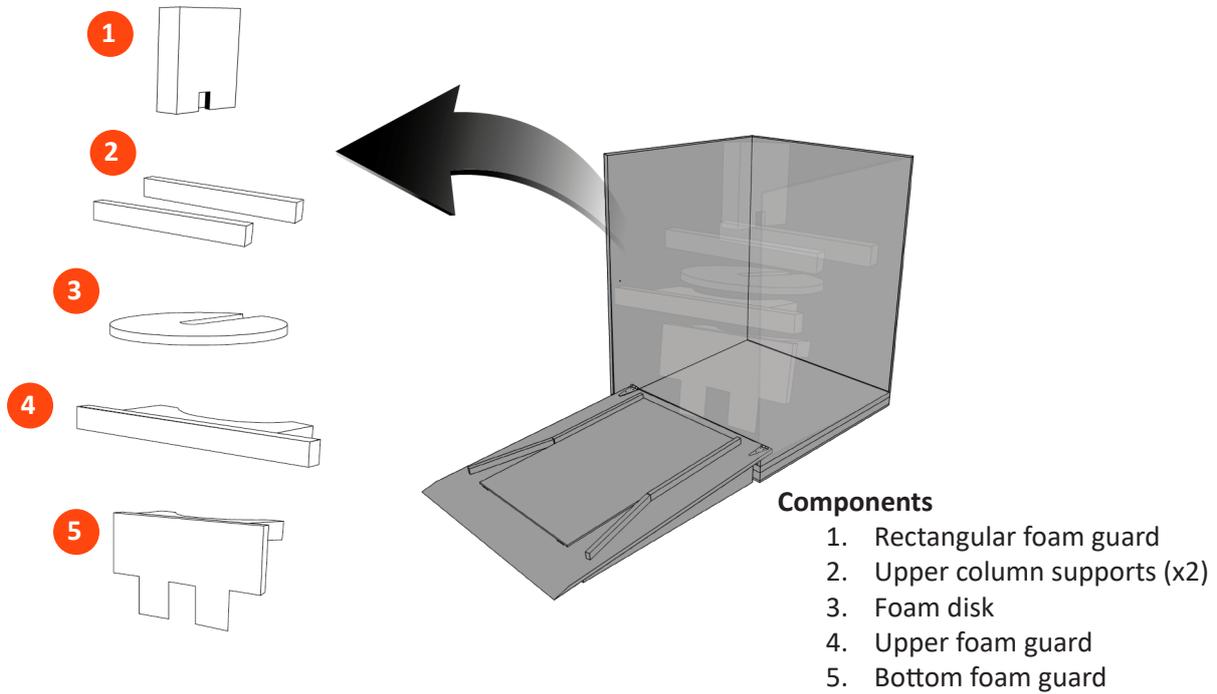
**Figure 3. Ramp door opening**



- While keeping one hand on the ramp at all times, loosen the wingnuts and remove the carriage bolts
- Open ramp door

**Step 3**

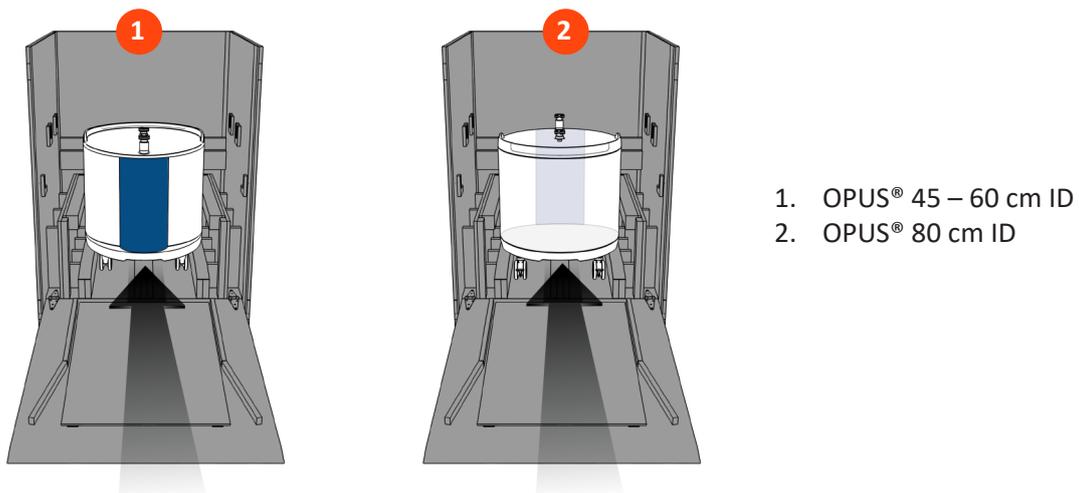
**Figure 4. Included pieces**



- Remove the 6 loose pieces from the crate and confirm all are included

**Step 4**

**Figure 5. Column orientation**



**3. OPUS® 45 – 60 cm ID**

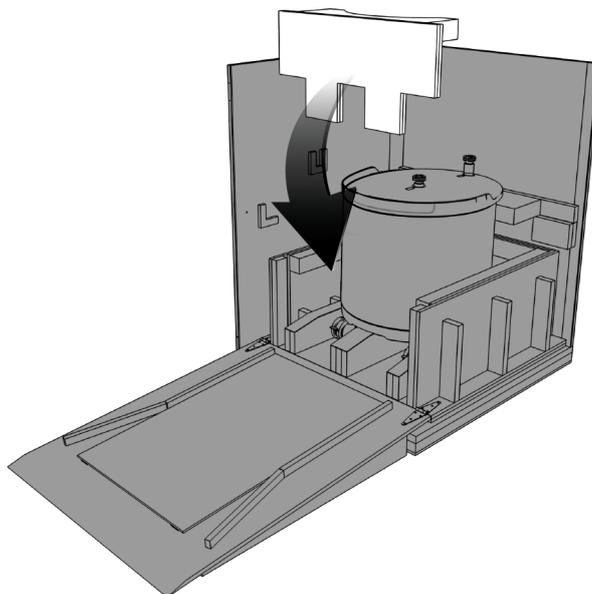
- Roll OPUS® Column onto support rail.
- Ensure side guard (blue) is facing **front** of crate

**4. OPUS® 80 cm ID**

- Roll OPUS® Column onto support rail.
- Ensure side guard (blue) is facing **back** of crate

**Step 5**

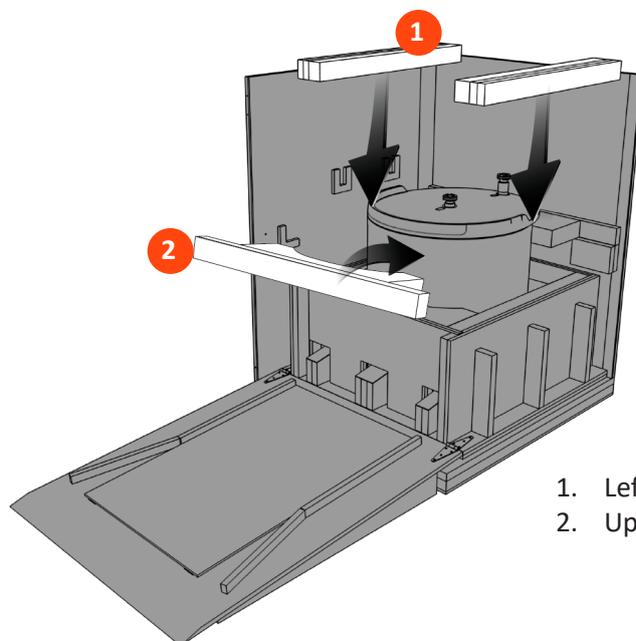
**Figure 6. One piece inserted detail**



- Insert bottom foam guard

**Step 6**

**Figure 7. Insert pieces details**

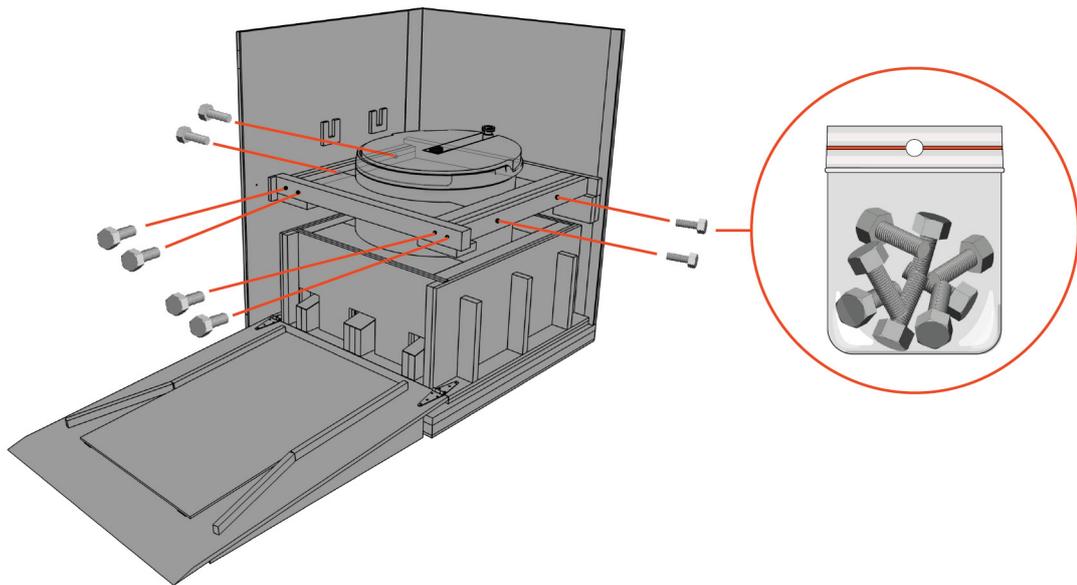


1. Left/right upper column supports
2. Upper foam guard

- Insert upper foam guard
- Insert left and right upper column supports

**Step 7**

**Figure 8. Location of the 8 screws**



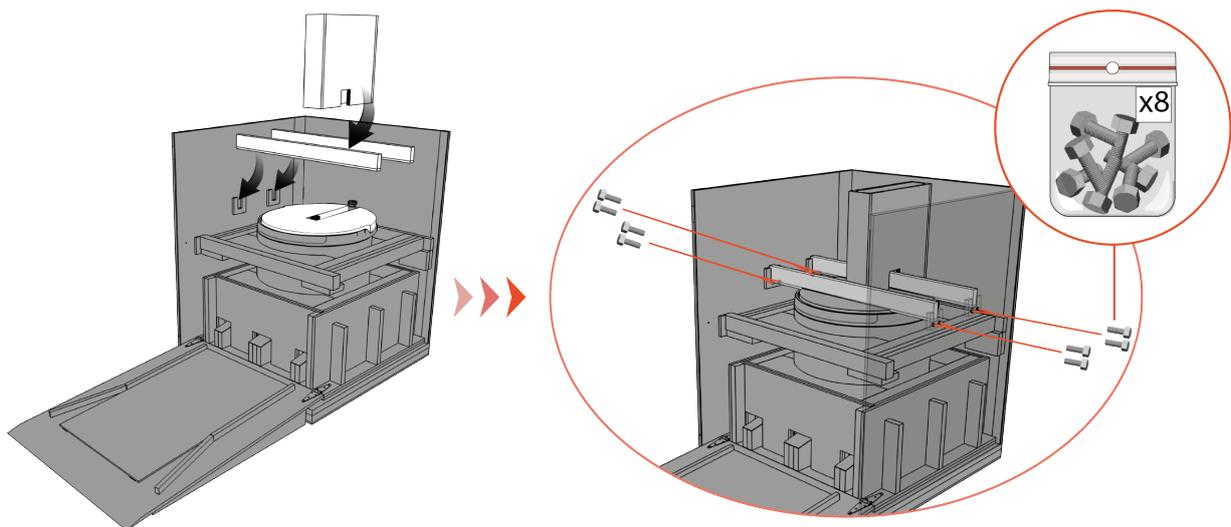
Secure upper foam insert to upper supports and upper supports to crate with 8 screws:

- 2 screws through upper foam guard into upper left support
- 2 screws through upper foam guard into upper right support
- 2 screws through upper foam guard into upper left support
- 2 screws through crate wall into left support
- 2 screws through crate wall into right support

*Ensure all screws seat into wood and not foam.*

**Step 8**

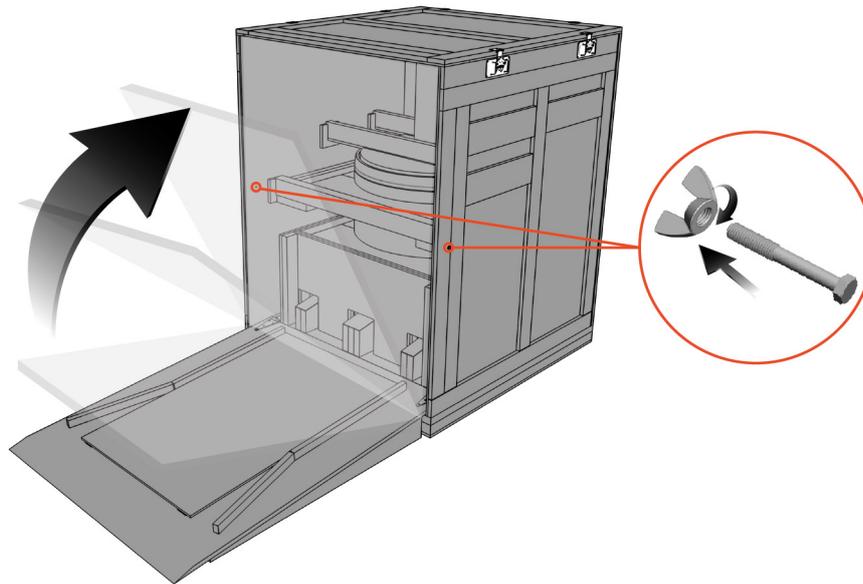
**Figure 9. Insert pieces details**



- Insert foam disc
- Insert two cross supports
- Secure both ends of each cross support with 2 screws through the side of the crate (8 total)
- Optional: If column includes tubing sets then insert foam box. If not used, place as a loose item on top of the column

Step 9

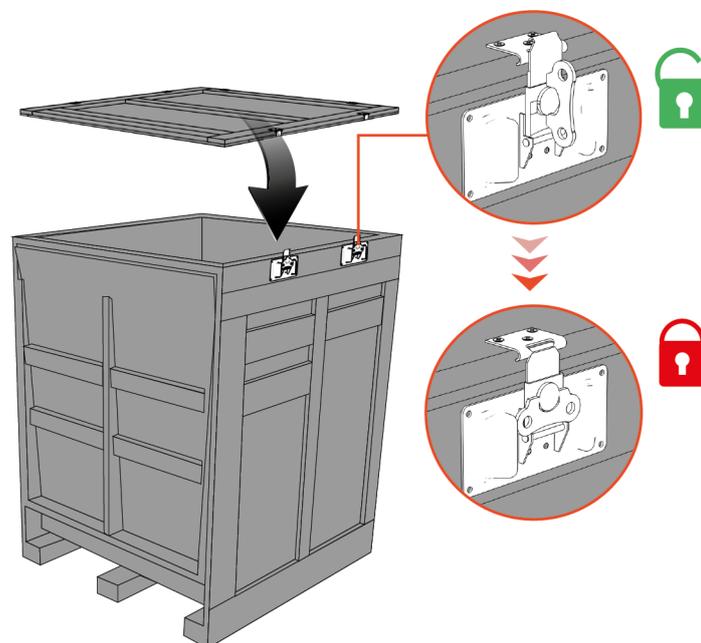
Figure 10. Closing ramp



- Close ramp door and secure with 2 bolts and wingnuts

Step 10

Figure 11. Closing the latch



- Close the latch
- Affix Address Label and Packing List to ramp outside panel of the crate. If applicable, affix “Refrigerate Upon Arrival” stickers
- For international shipments, attach the Commercial Invoice to the outside of the crate.
- If shipment of the column will route to Repligen, contact mailto: [Complaints@repligen.com](mailto:Complaints@repligen.com) with weights and dimensions of the completed packaging with picture included to trigger pickup for shipment.