

OPEN

Compute Summit

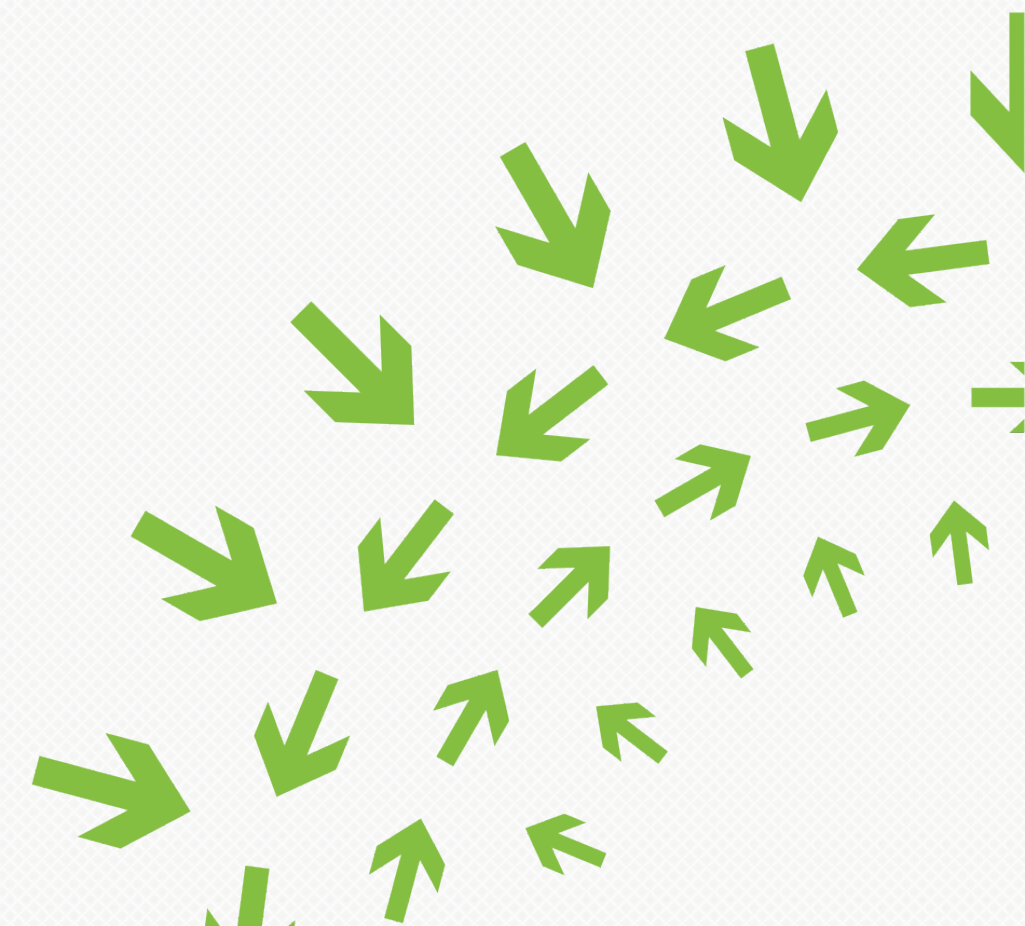
January 28–29, 2014 San Jose





Open Rack Workshop

Matt Corddry
Facebook
Project Chair



Schedule

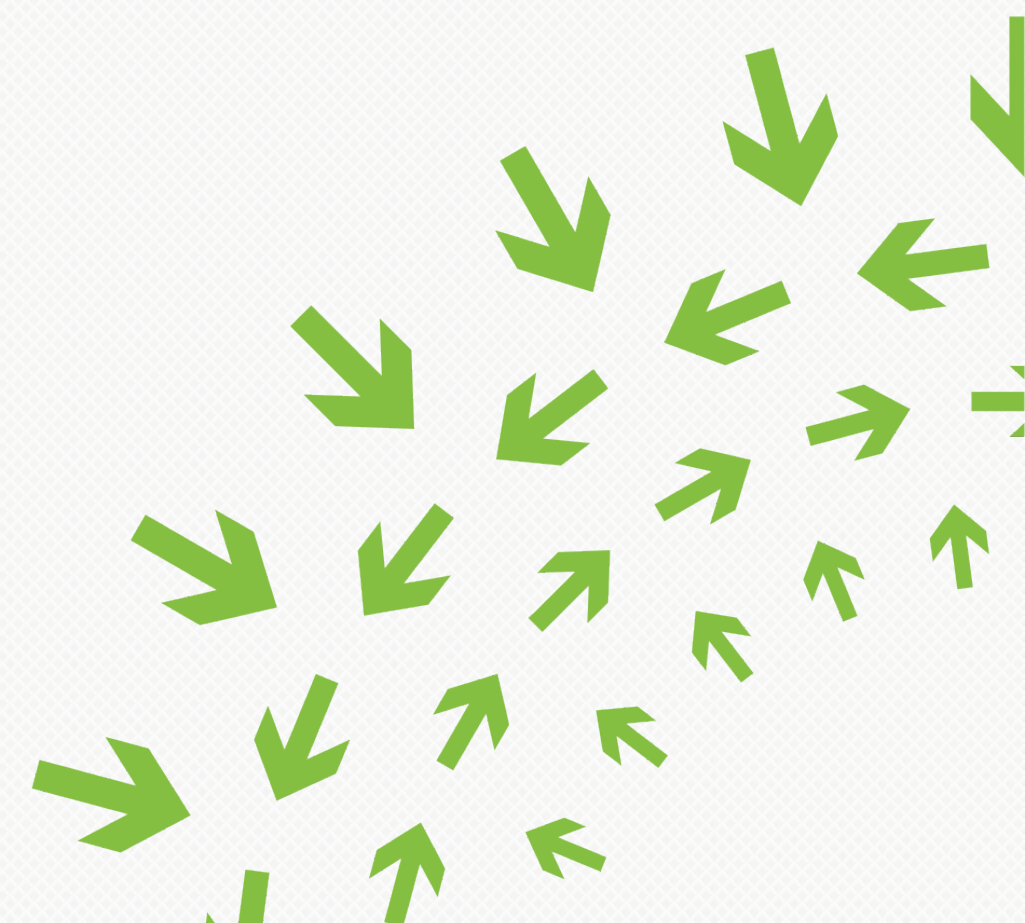
2:00	Introduction
2:10	OpenRack Standard Update
2:40	Facebook OpenRack v2 Overview
3:25	Facebook OpenRack v2 Mechanicals
3:40	Fidelity OpenRack
4:10	Break
4:25	Rittal OpenRack
4:55	Delta OpenRack
5:25	PowerOne OpenRack
5:55	Wrap Up



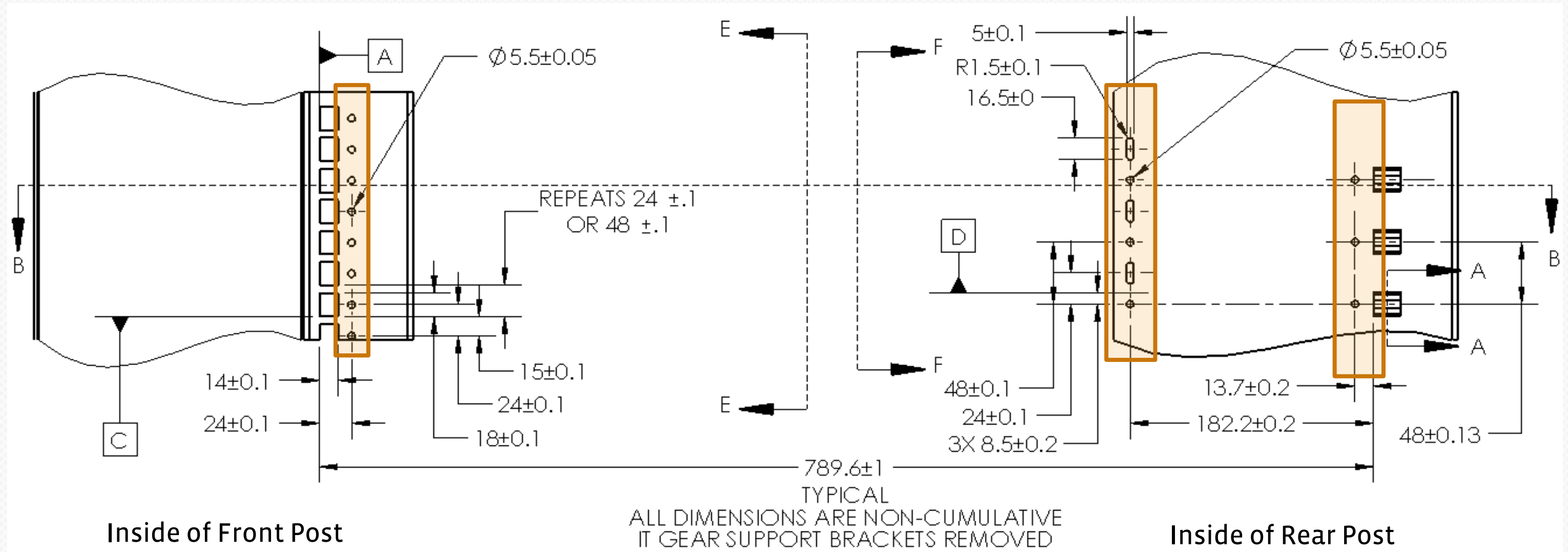


Open Rack Standard Update

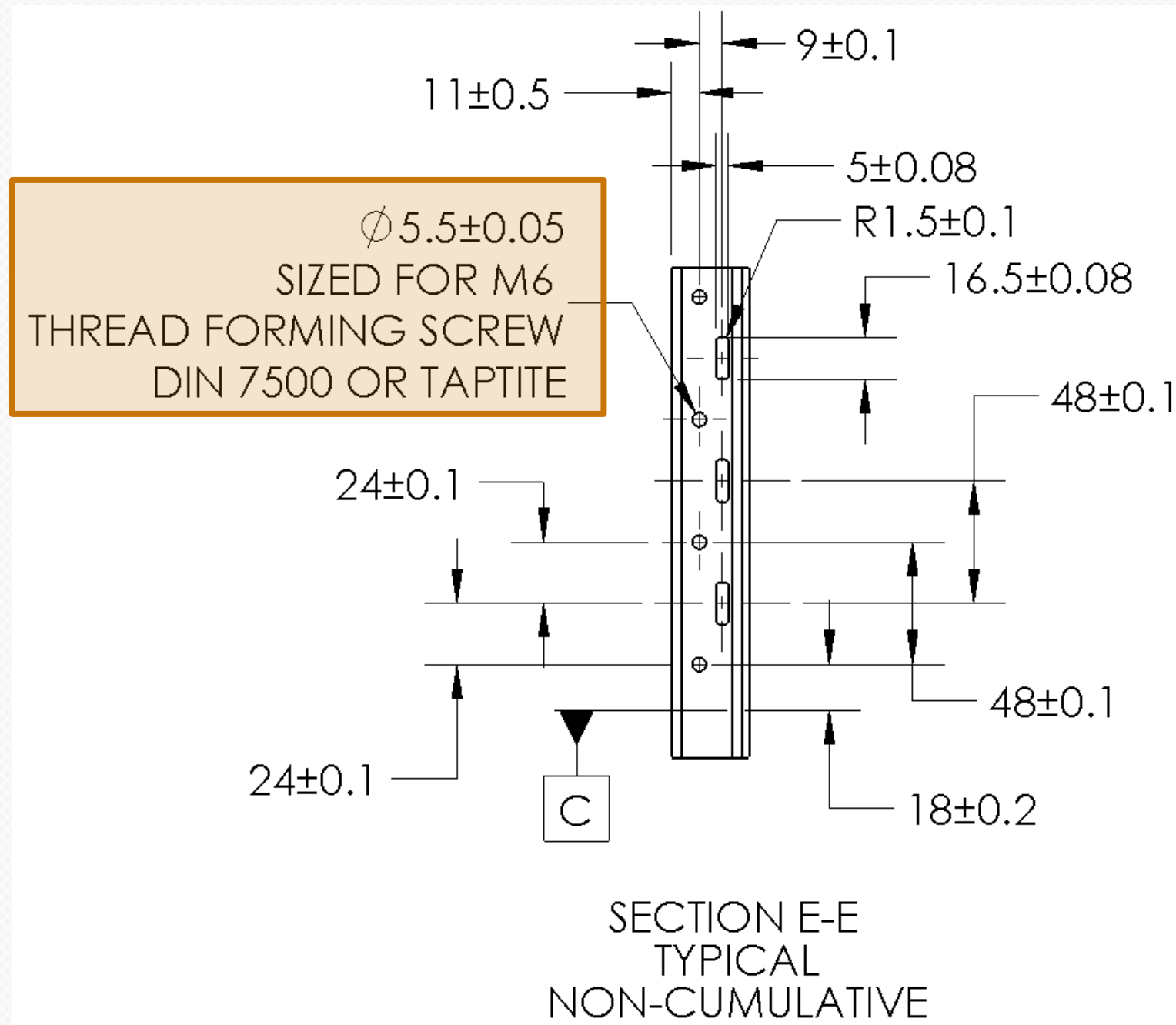
V1.1



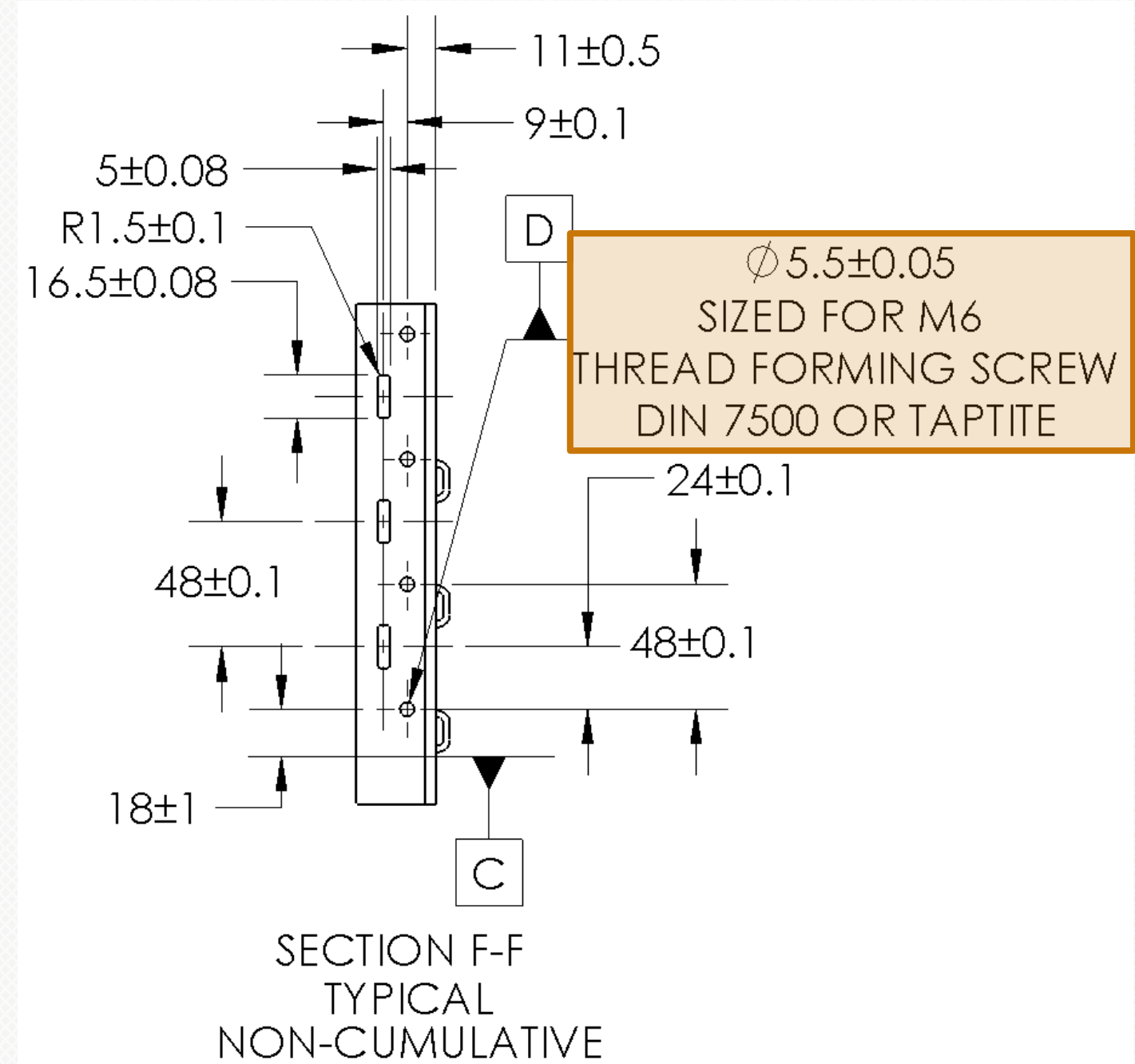
Standard: ADD Holes to Vertical Posts



Standard: Change hole diameter from 5.42 to 5.5

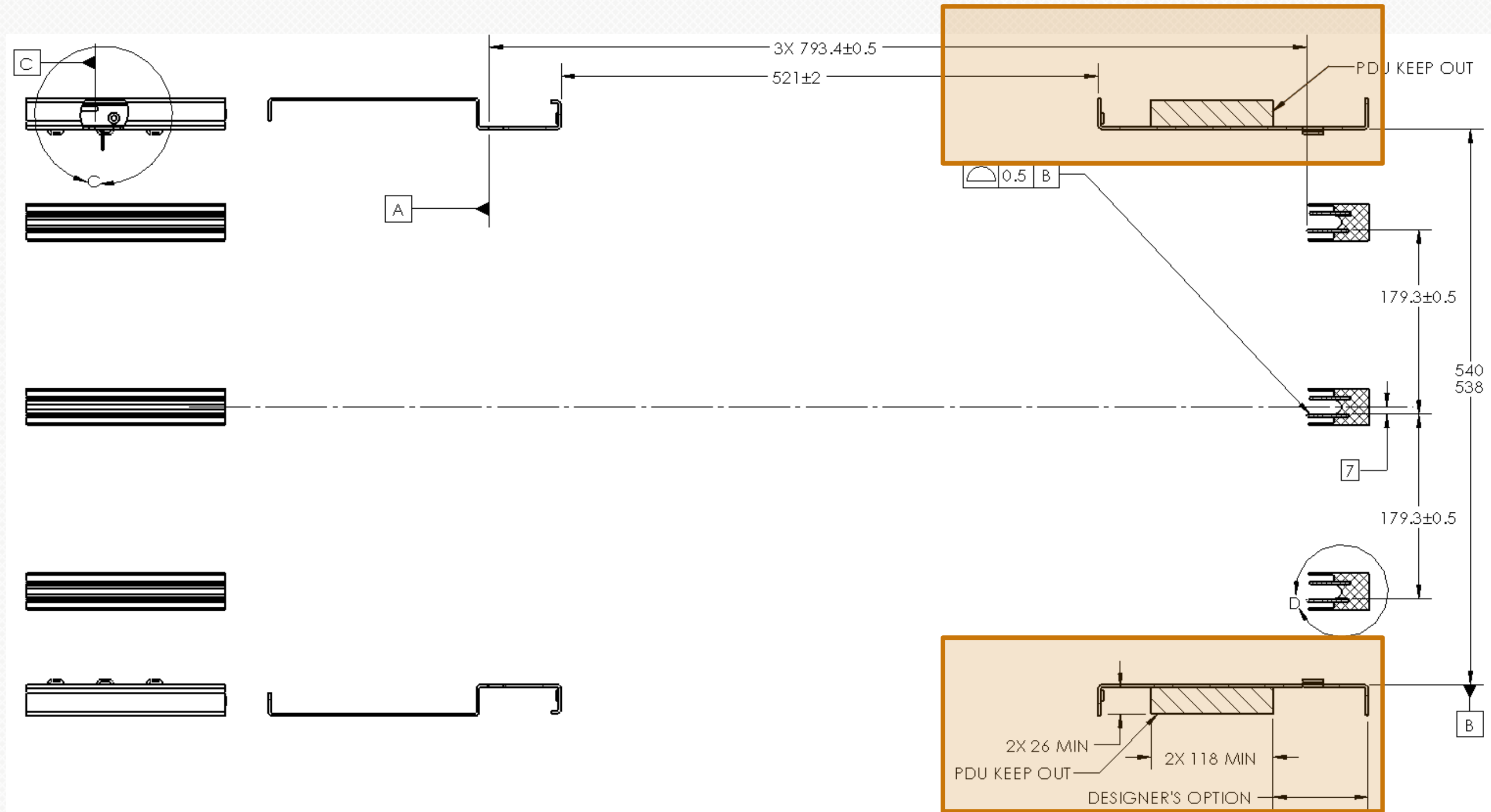


Front Post



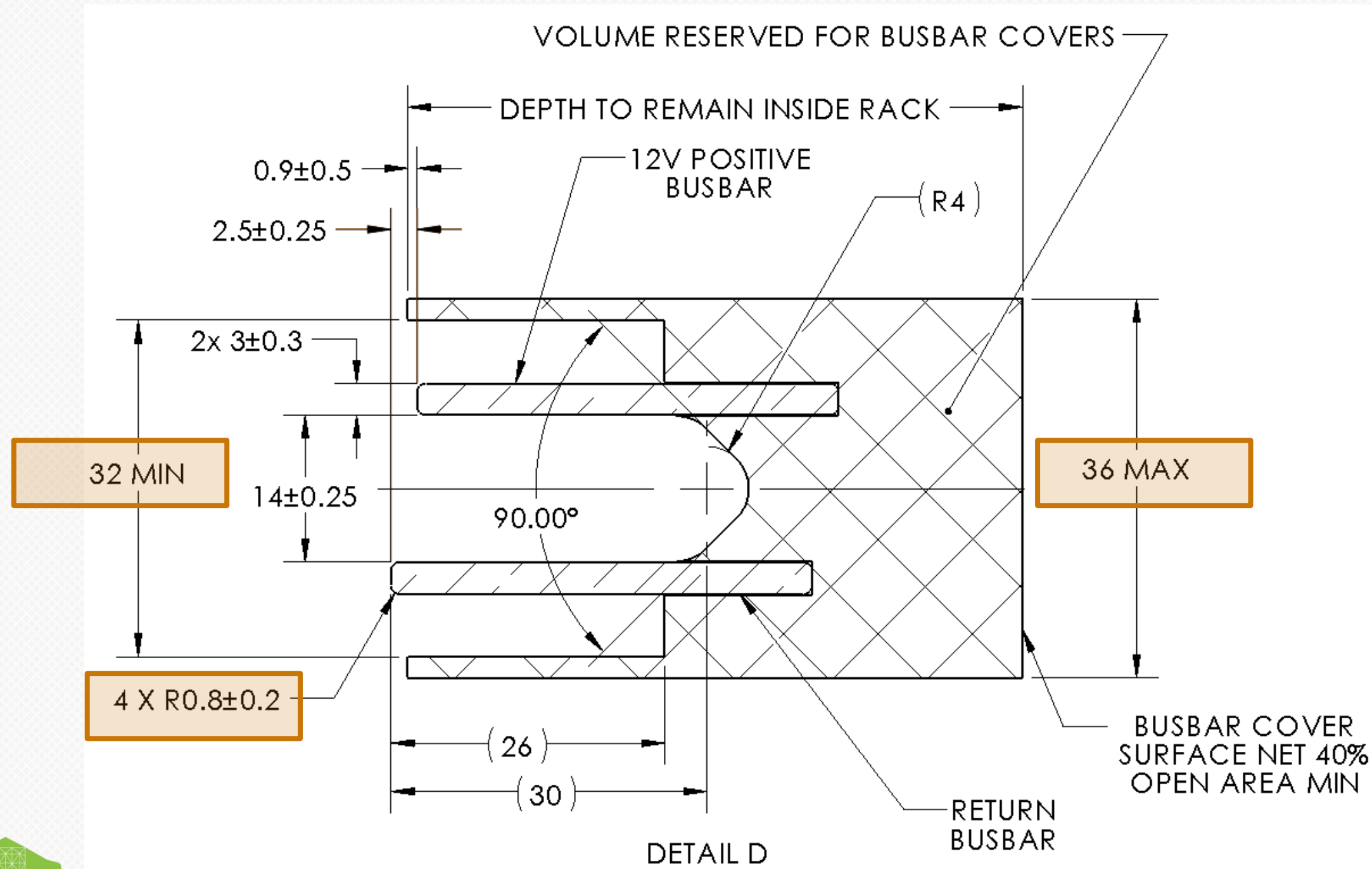
Rear Post

Standard: Reserve PDU Volume



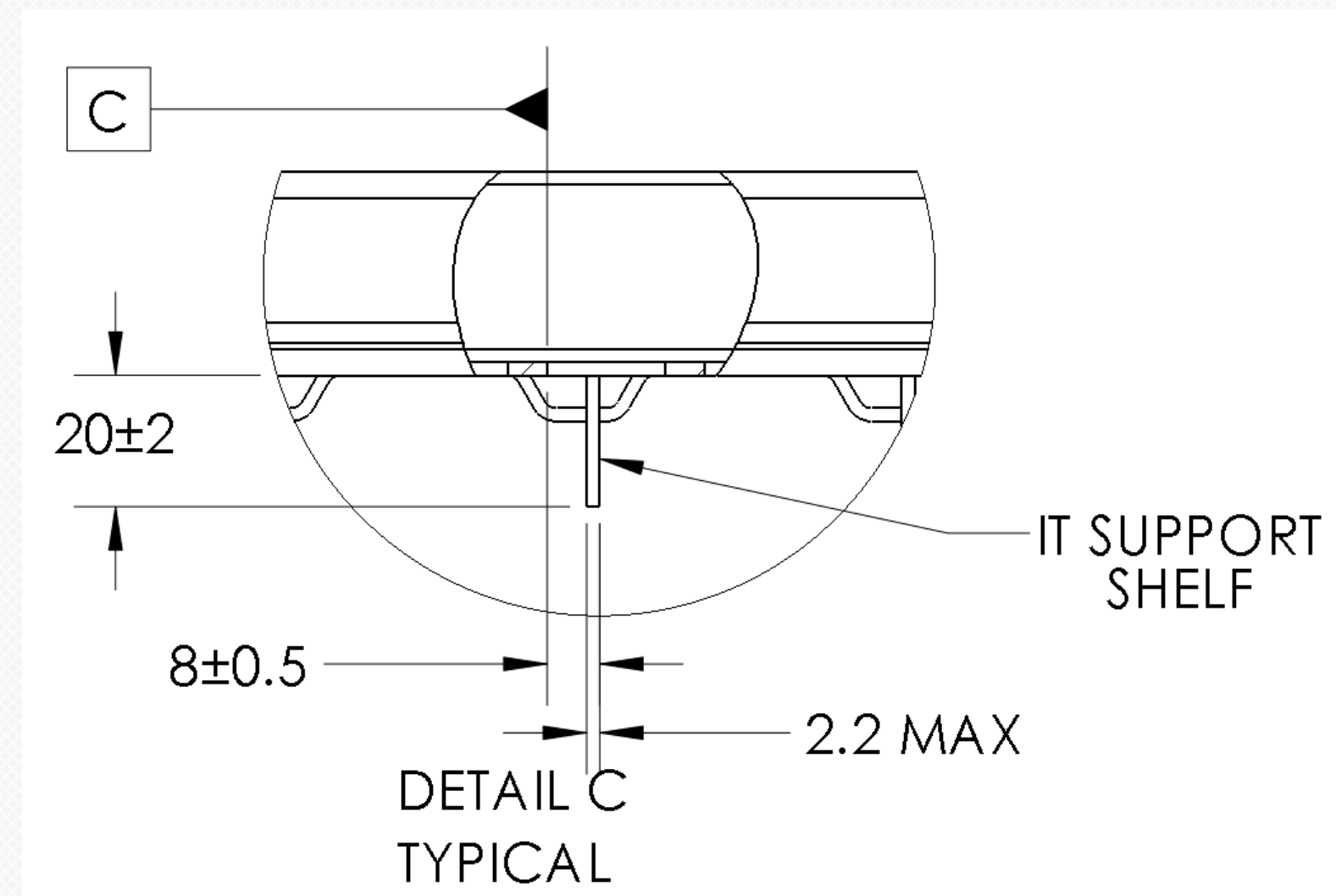
SECTION B-B
IT GEAR SUPPORT BRACKETS REMOVED

Standard: Control Leading Radius on Busbar



Standard: IT Support Brackets

- Conform to the shape shown in Detail C (Figure 7). If the IT Support Bracket is continuous along the entire width of the rack instead of two Support Brackets, then the 20mm bracket length in Detail C may be ignored.
- IT load changed to 700N per set



Standard: Marking for Re-use

- The rack SHALL be marked:
 - In a permanent and legible manner with the maximum load mass (in kilograms)
- With the latest revision number of the standard for which the rack is compliant in either of the following formats:
 - OPEN RACK STANDARD REVXX.X
 - ORS REVXX.X



Standard: Marking for Re-use

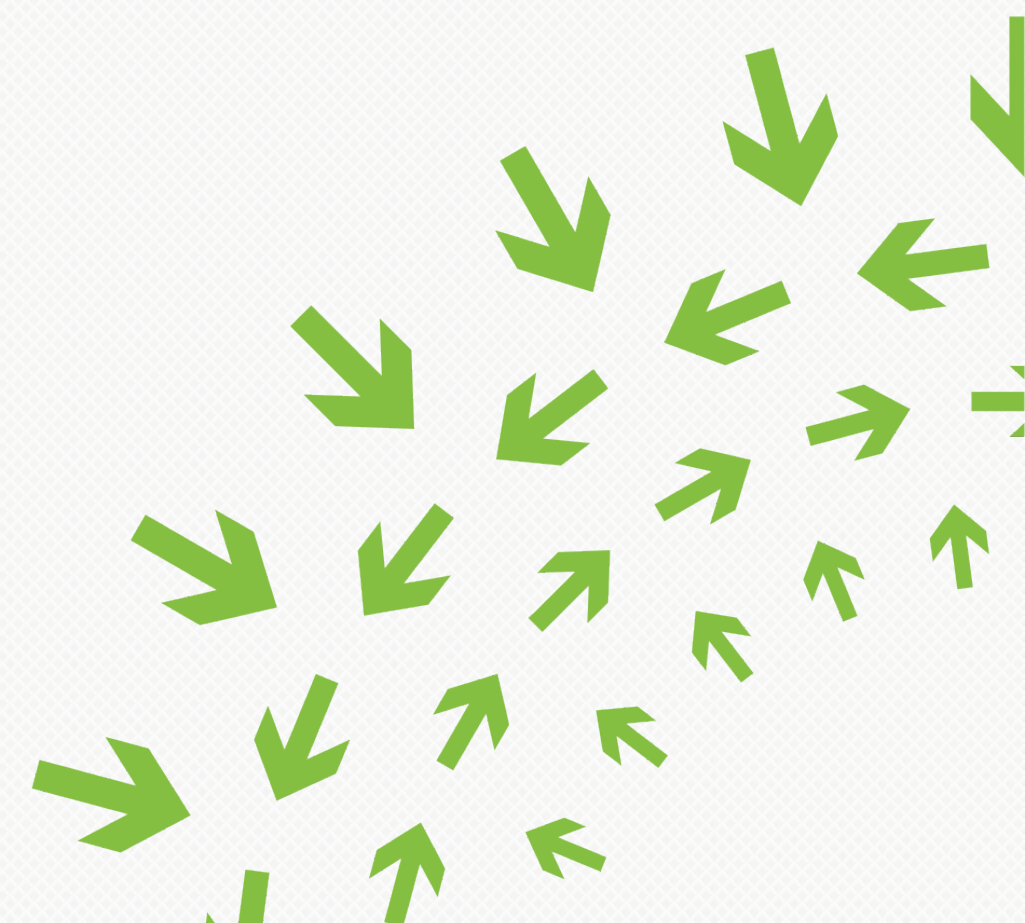
- Add to section:
 - For purposes of qualification testing, the total mass used for determining the frame load rating SHALL be evenly distributed within the entirety of the equipment bay.







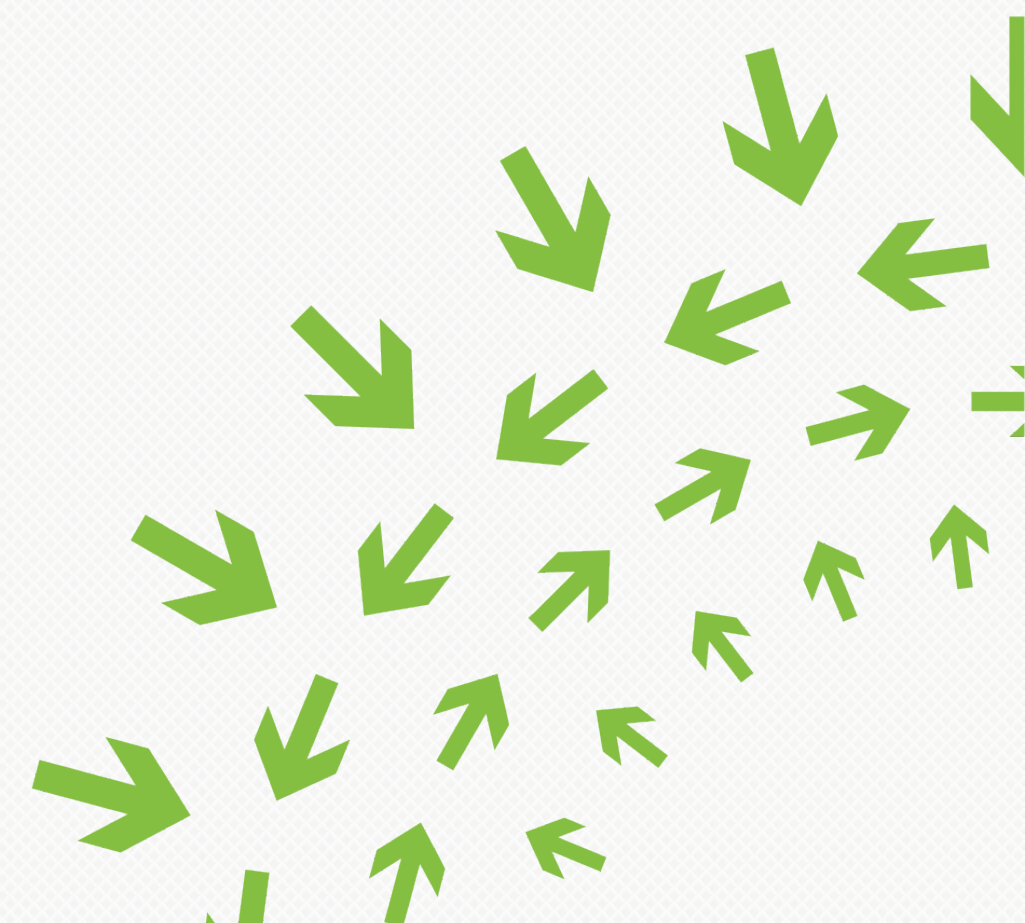
Facebook Open Rack V2 Overview





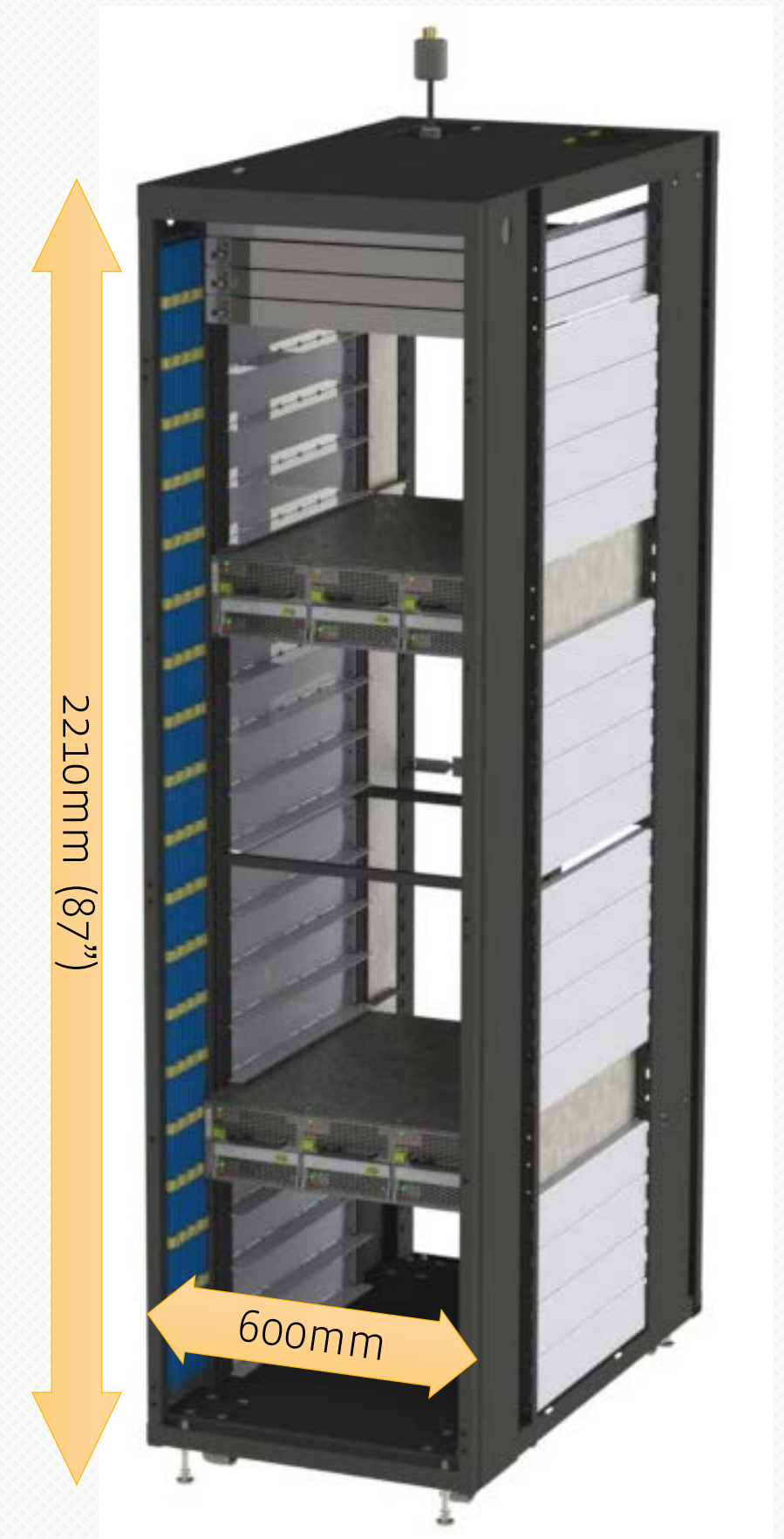


Facebook Open Rack V2 Mechanical



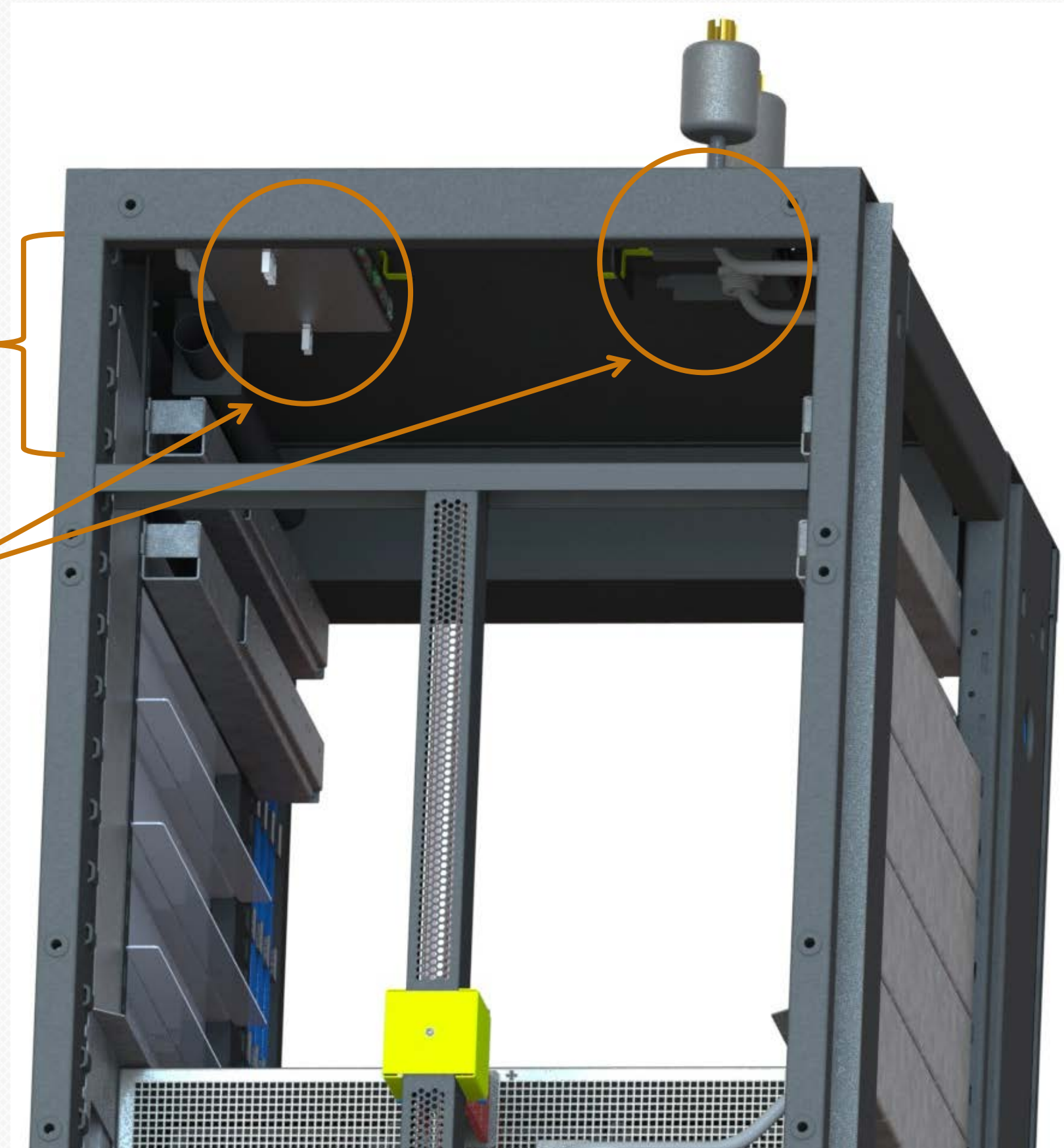
Facebook Open Rack V2

- Complies with Open Rack Standard
- Backwards compatible with all Open Rack V1 IT Gear
- Increased Max IT Gear mass from 950kg → 1250kg)
- Increased height from 2100 (82.6") to 2210mm (87")



Rear View

- Switch Service area is larger and now supports 3 switches
- PDUs are located in the back under the canopy
- Designed to support 3 busbars but FB plans to populate only 1 at production



Rear View

- Power Shelves can be located within any U in the rack
- Power shelf deeper to improve service
- Levelling feet are accessible with power tools to speed deployment at Data Center



Rack Monitor Inside Frame

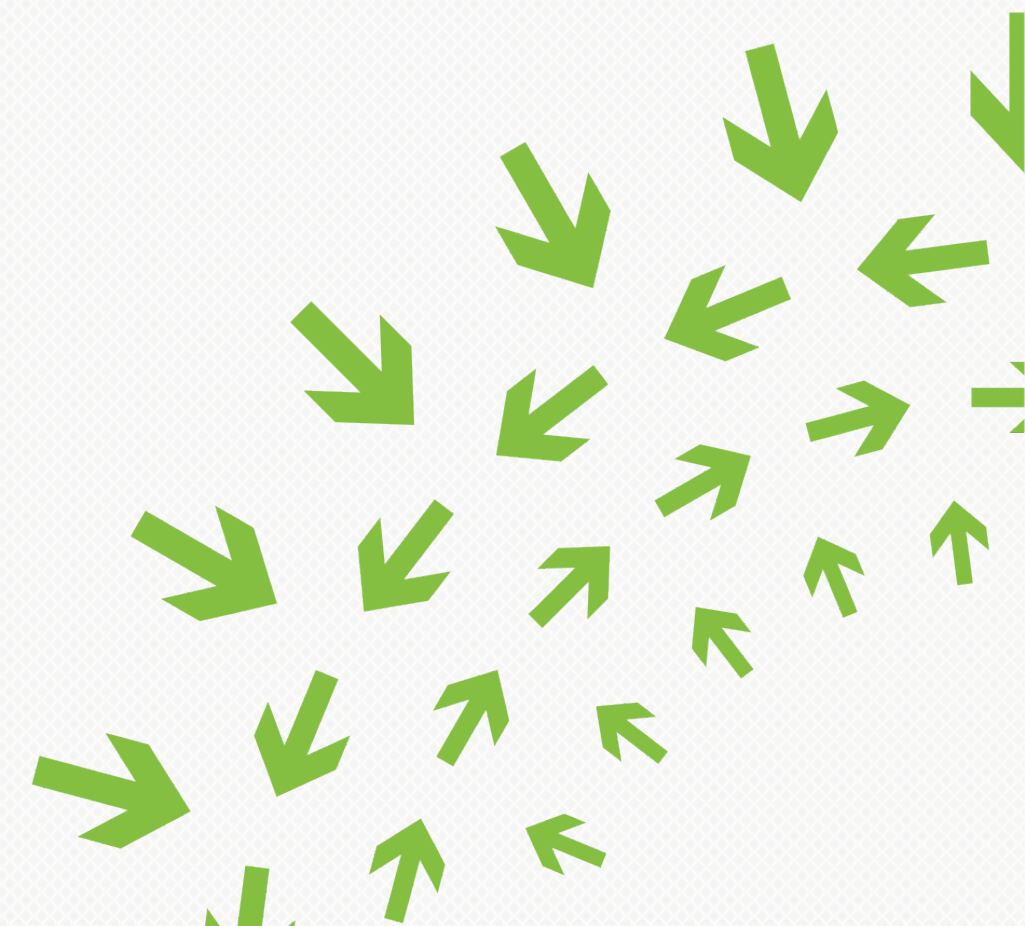
- Rack monitoring server moved from top of cabinet to area under canopy







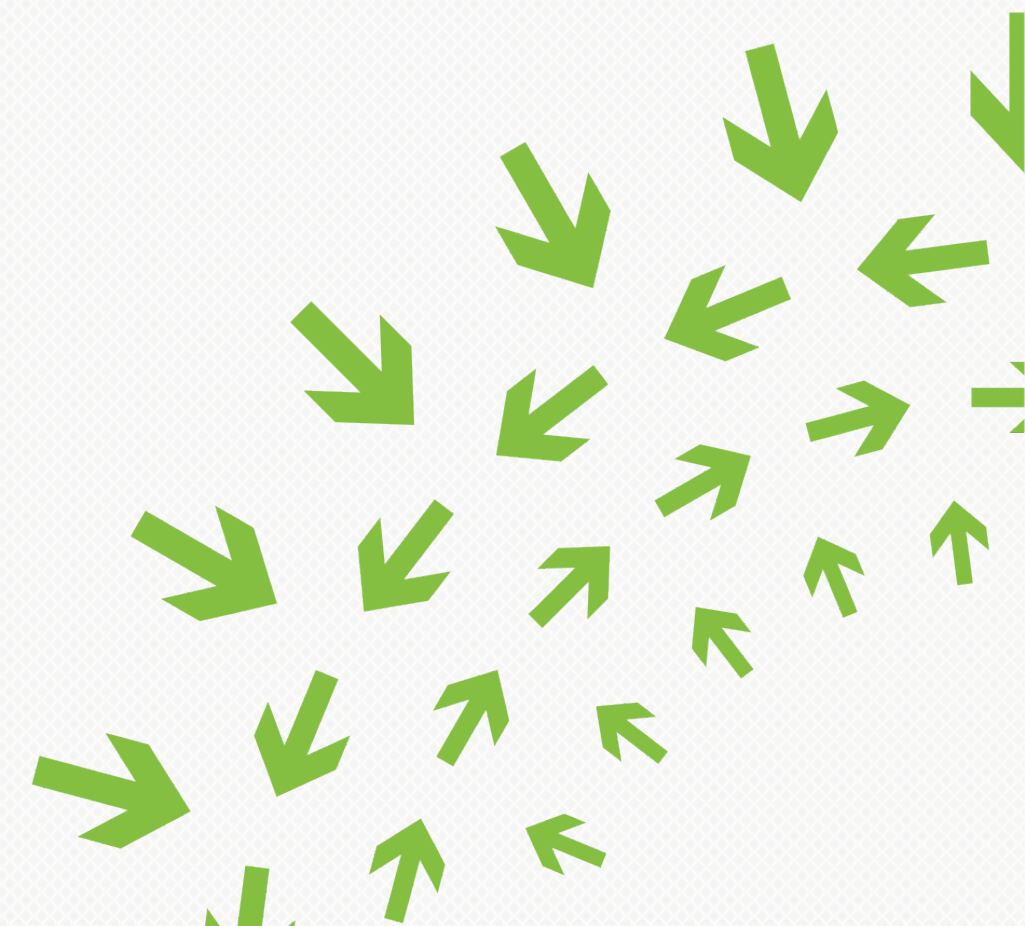
Open Bridge Rack Fidelity Investments







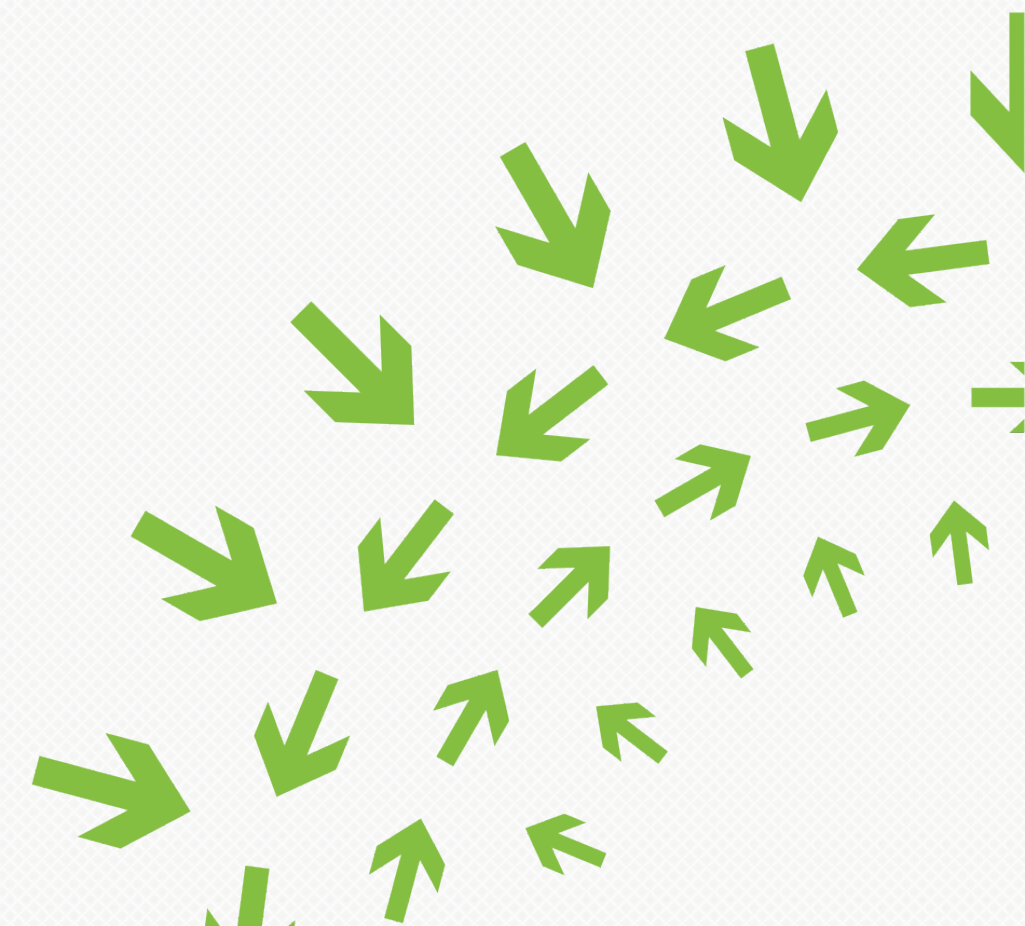
Break Time







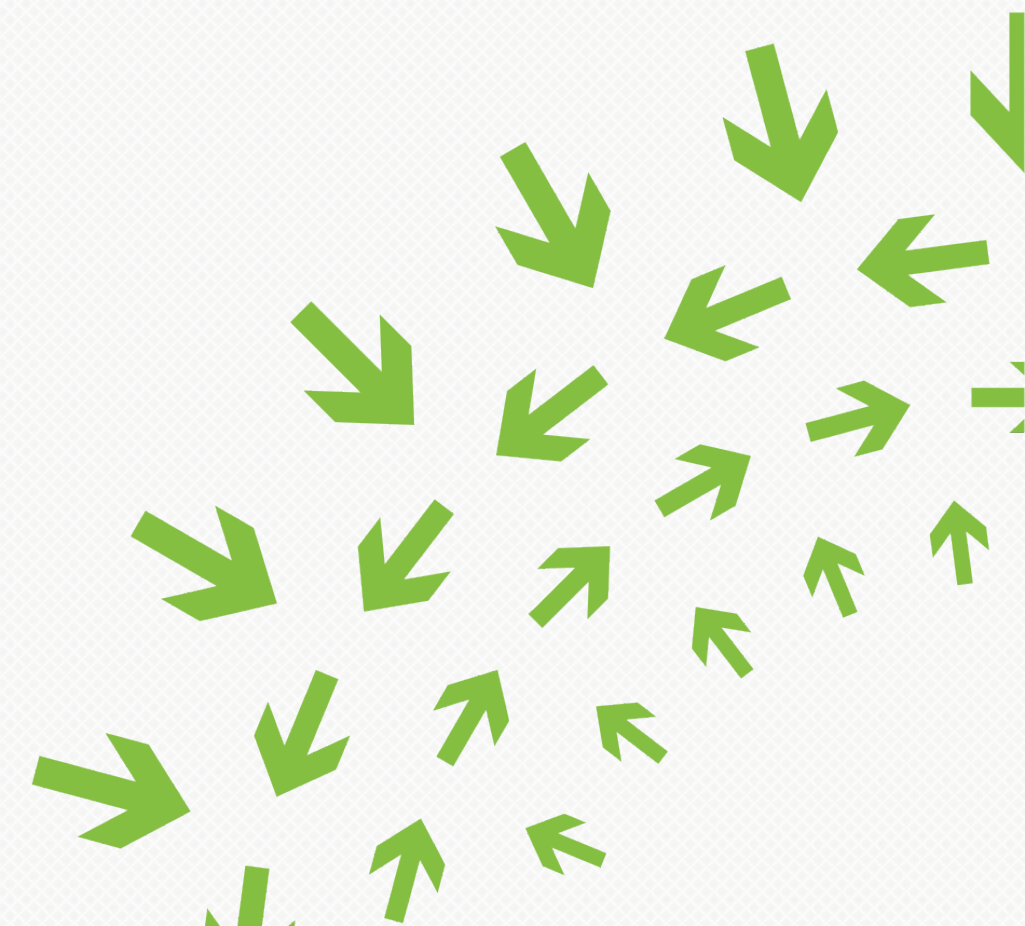
Rittal Open Rack Update







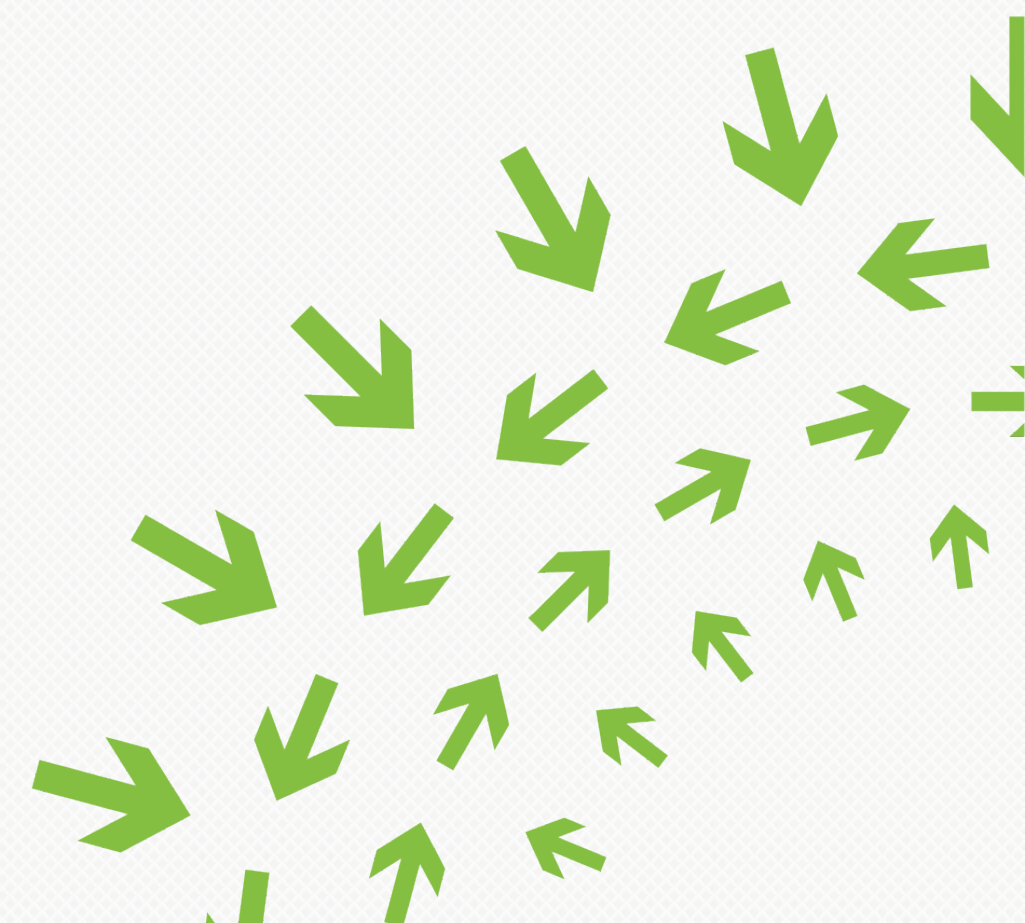
Delta OpenRack Update

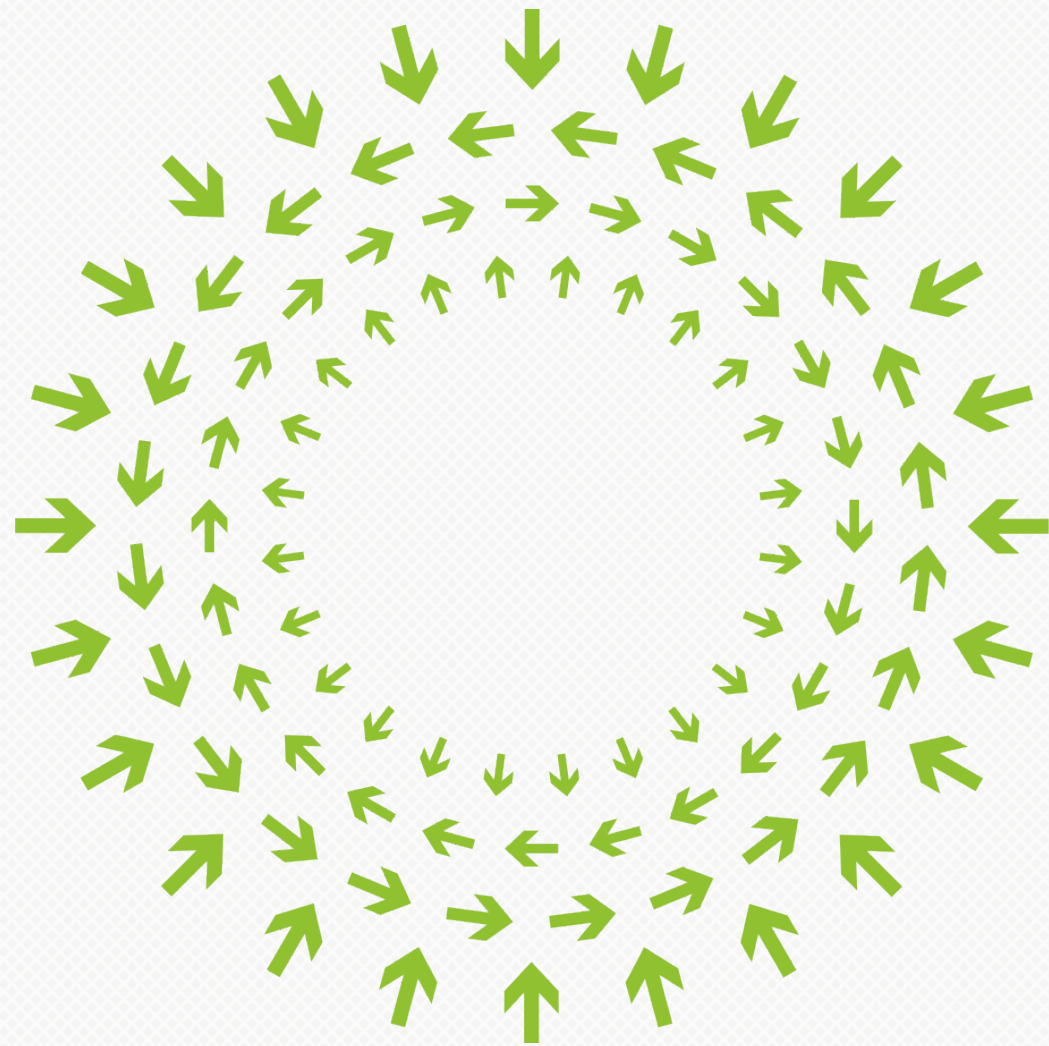






PowerOne OpenRack Update





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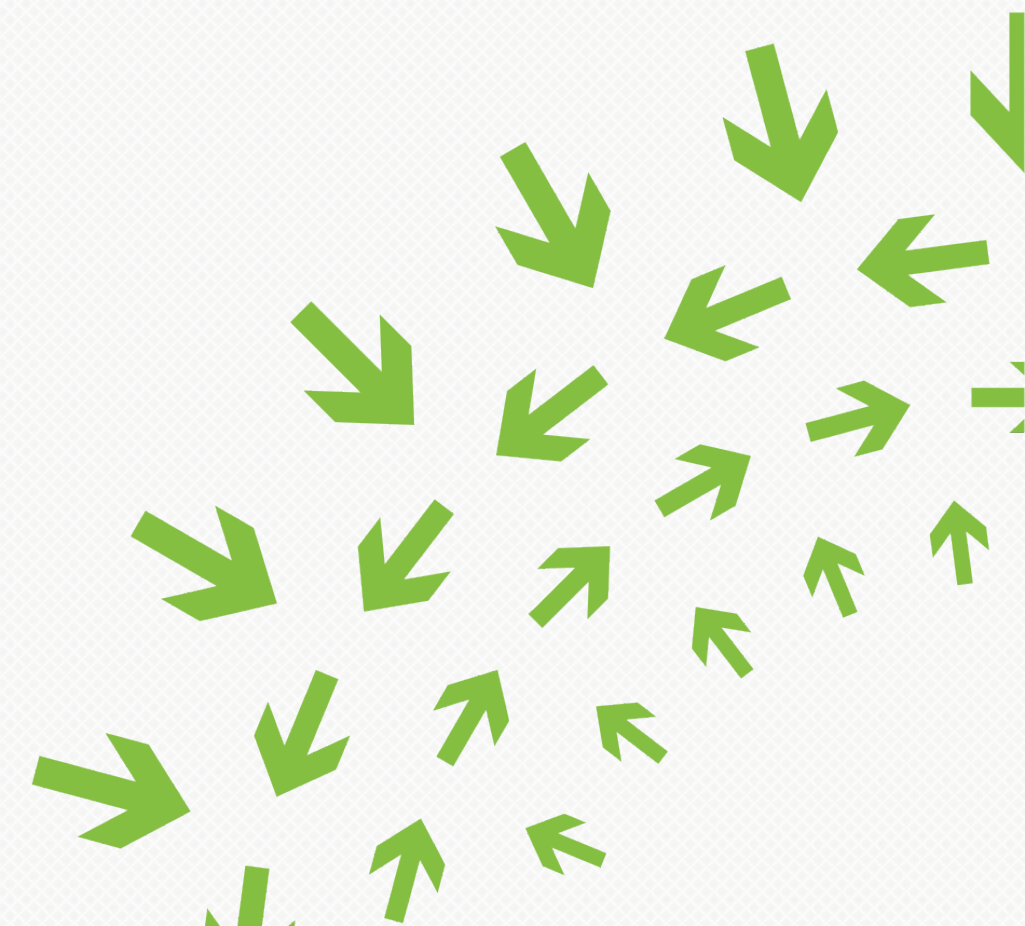
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Schedule

1:00	Kick Off and Open Topics
1:15	Proposed Changes for Open Rack Standard V1.2
2:00	Q&A and Hands-on with Delta, Facebook, Fidelity, PowerOne, and Rittal

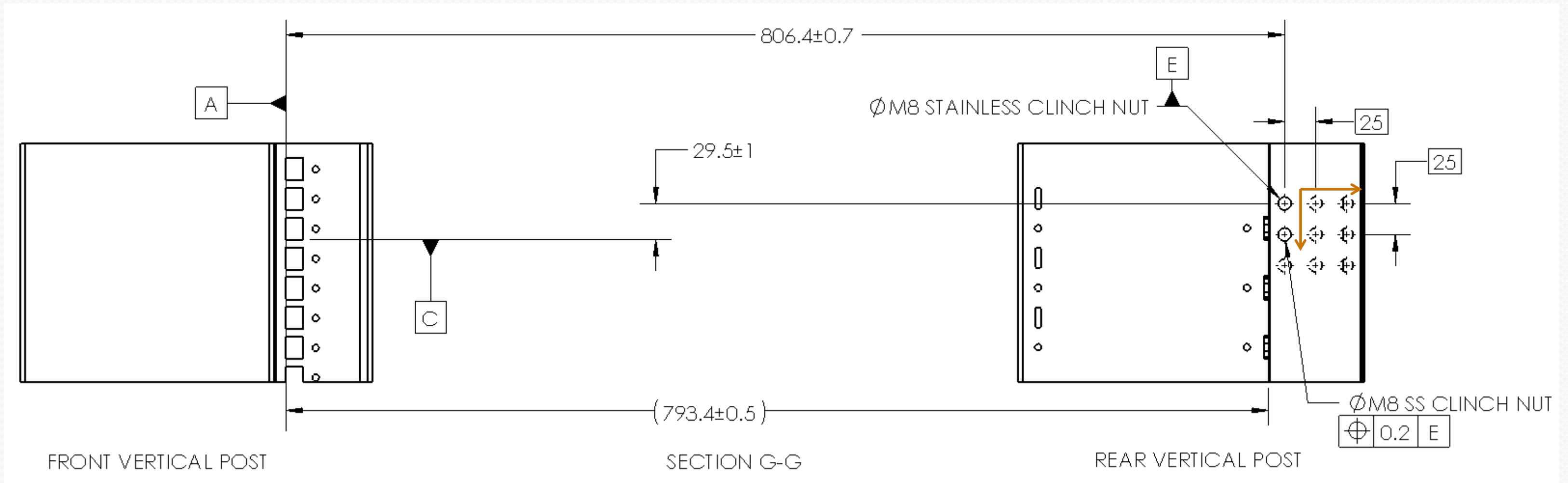




Proposed Changes for OpenRack Standard V1.2



Add connection for Power Shelf to Rack Busbar



Start with Hole at Datum E and add holes to the busbar in a 25x25 array







Q&A and Hands-on with Delta, Facebook, Fidelity, PowerOne, and Rittal





