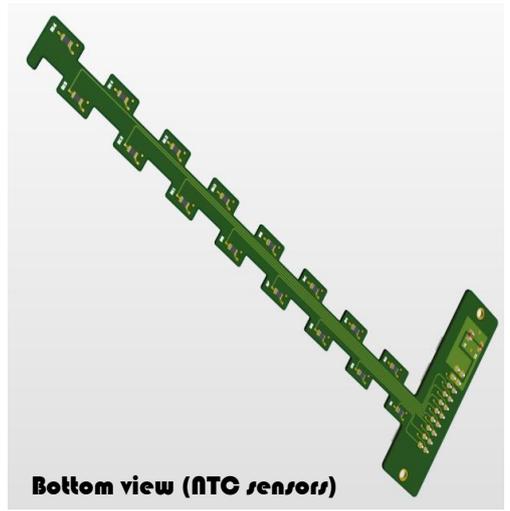
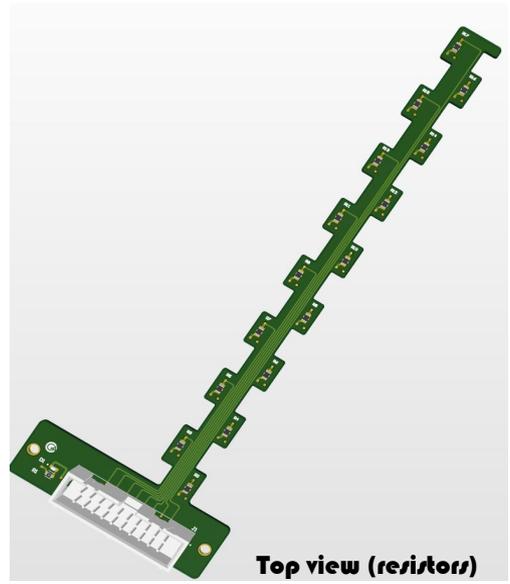
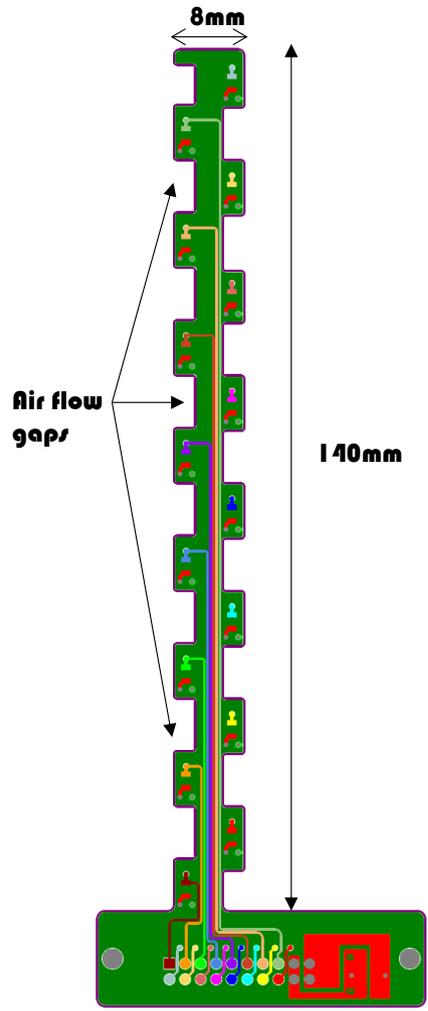


All-Silicon Update

19.02.2026

Nana Chyckalo

New Board by Orcel – Ordered! **NANA BOARD DESIGN**



Online PCB Quote

Select Product

- Standard PCB/PCBA
- Advanced PCB/PCBA
- SMT Stencil
- Flex Heater
- Mechatronic Parts
- 3D Printing
- CNC Machining

Online PCB Quote

Re-Upload Gerber Viewer

Detected 4 layer board of 155.8x53.8mm(6.13x2.12 inches).

Base Material

- FR-4
- Flex
- Aluminum
- Copper Core
- Rogers
- PTFE Teflon

Layers

- 1
- 2
- 4
- High Precision PCB 6
- 8
- 10
- 12
- 14
- 16
- More

Dimensions

53.8 * 155.8 mm

PCB Qty

5

Product Type

- Industrial/Consumer electronics
- Aerospace
- Medical

PCB Specifications

Different Design

- 1
- 2
- 3
- 4

Delivery Format

- Single PCB
- Panel by Customer
- Panel by JLCPCB

PCB Thickness

- 0.4mm
- 0.6mm
- 0.8mm
- 1.0mm
- 1.2mm
- 1.6mm
- 2.0mm

PCB Color

- Green
- Purple
- Red
- Yellow
- Blue
- White
- Black

Silkscreen

- White

Material Type

- FR4 TG135
- FR4 TG155
- Nan Ya NP-140F
- KB6164 - TG135
- Nan Ya NP-155F
- KB-6165 - TG155
- S1141 TG140
- S1000H TG155

Charge Details

Engineering fee	€20.05
Via Covering	€0.00
Surface Finish	€0.00
Board	€3.68

PCB Build Time

- 3-4 days €0.00
- 3 days PCBA Only €0.00
- 2-3 days €53.72

Calculated Price €23.73

Additional charges may apply for special cases

SAVE TO CART

Shipping Estimate €17.96

- DHL Express 2-4 business days
- Weight 0.26kg

Coupons

- Save €12.53
- Save €7.52

Shopping cart overview

Subtotal	€8.24
Shipment	* €18.00
In Total	* €26.24

* Estimated Amount

Only €41.76 left until FREE SHIPPING

UPS Worldwide Saver | 18.0

As a guest to the checkout

Already registered? Log in

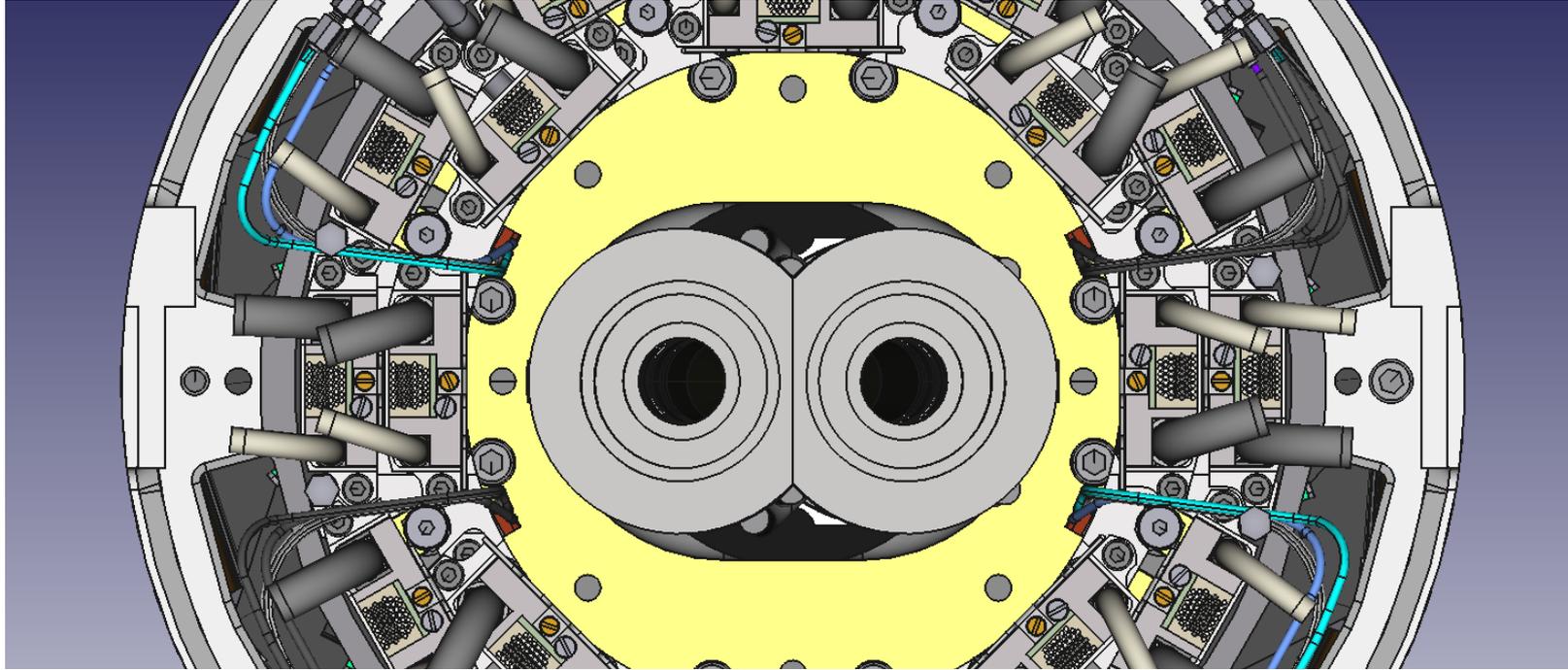
Your data will be encrypted and transmitted securely.

Information: By submitting your order, you agree to Digiker's terms and conditions and privacy policy.

Cannot make the board smaller than 8mm

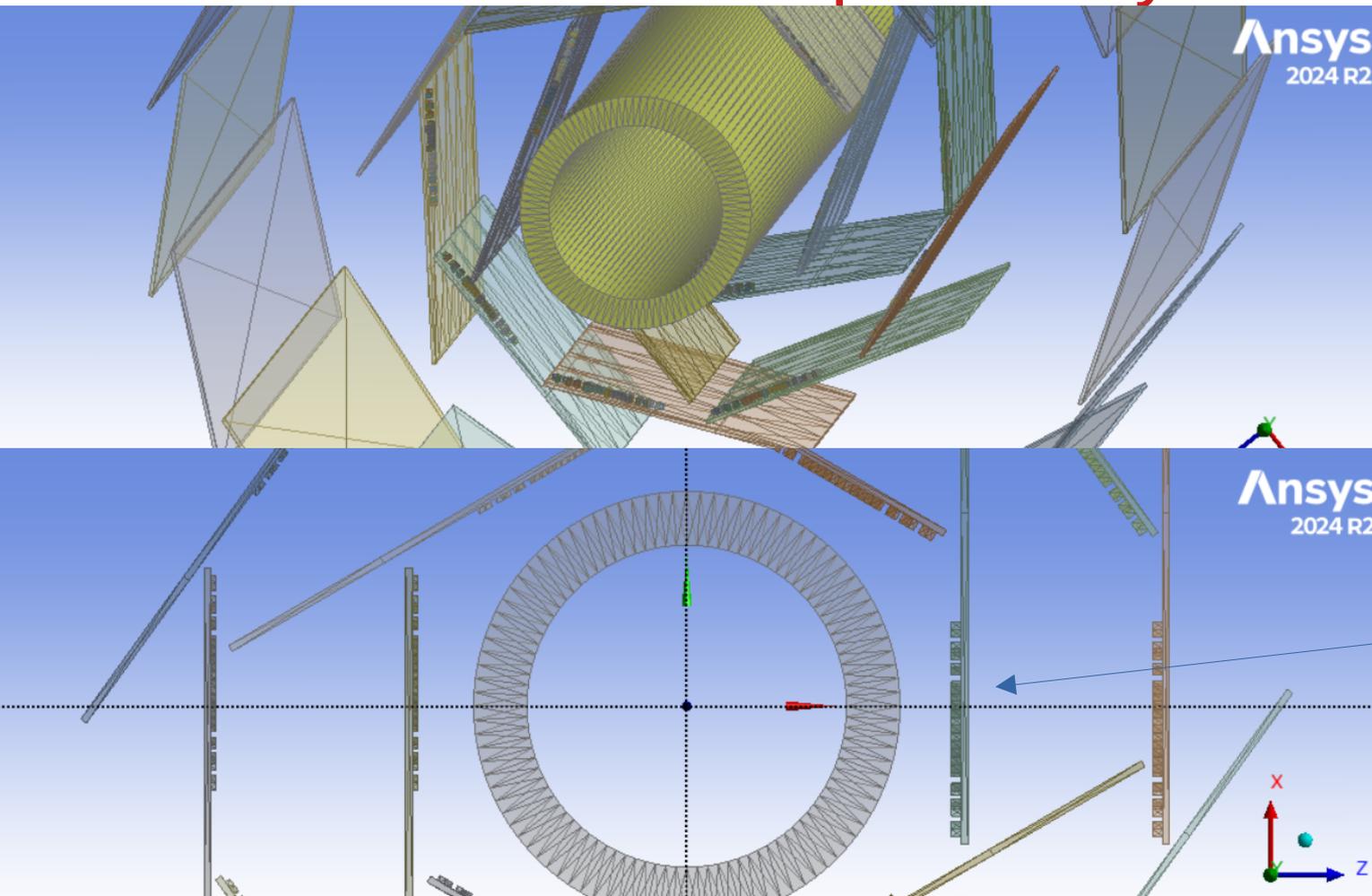
Unless we move to 8 layers (high precision pcb) → expensive

Detector and pillars: many thanks to Andreas for sharing the detector dimensions!



Took dimensions as an example for the detector replication (yellow – beryllium tube).

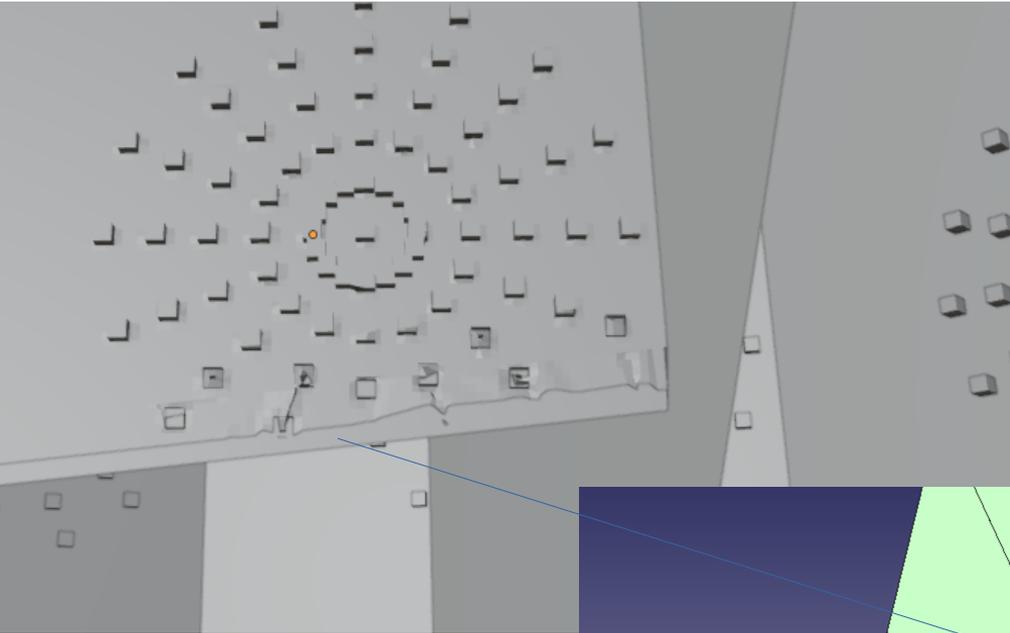
Inspired by detector dimensions simplified detector setup for Ansys



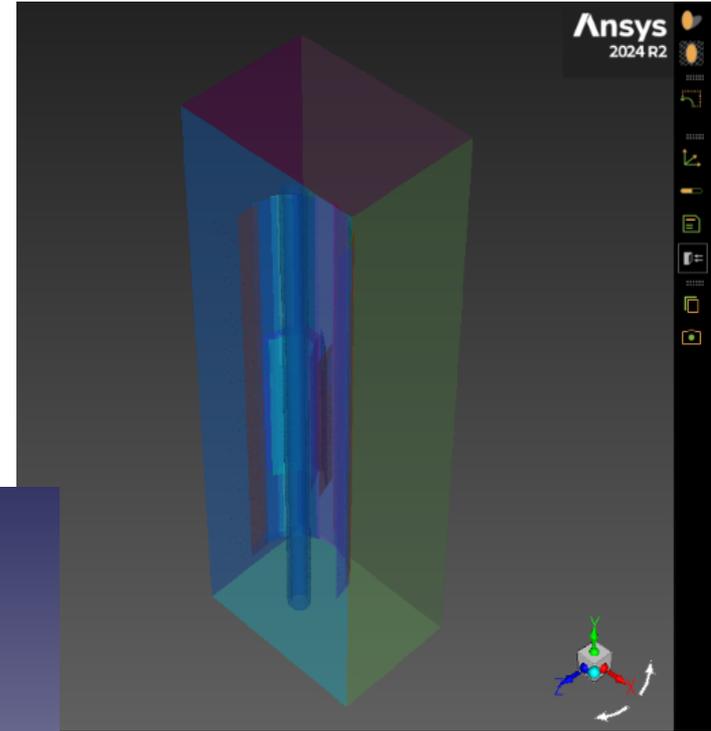
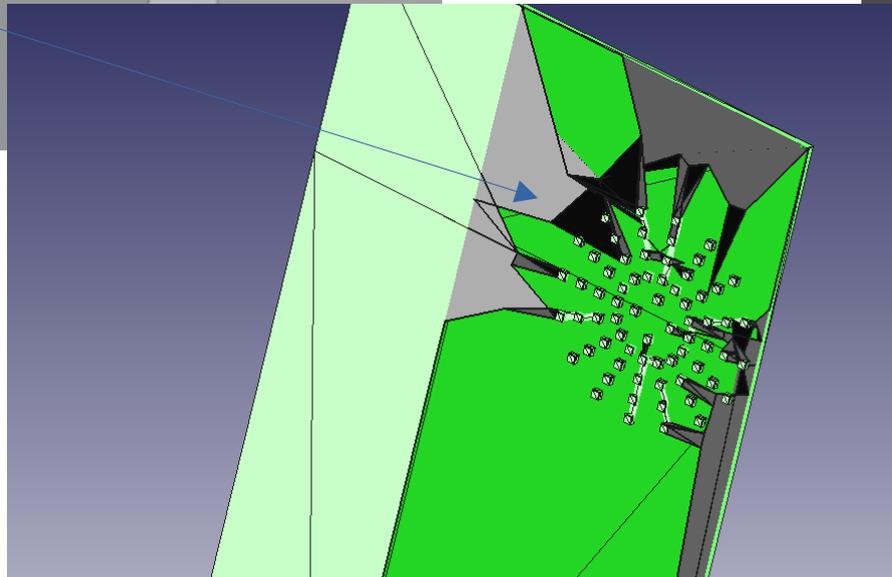
Ansys Geometry accepts the simplified detector, though only a fraction of it can be used for runs.

Pillars in circular arrangement.

Pillars for increasing turbulence: Debugging

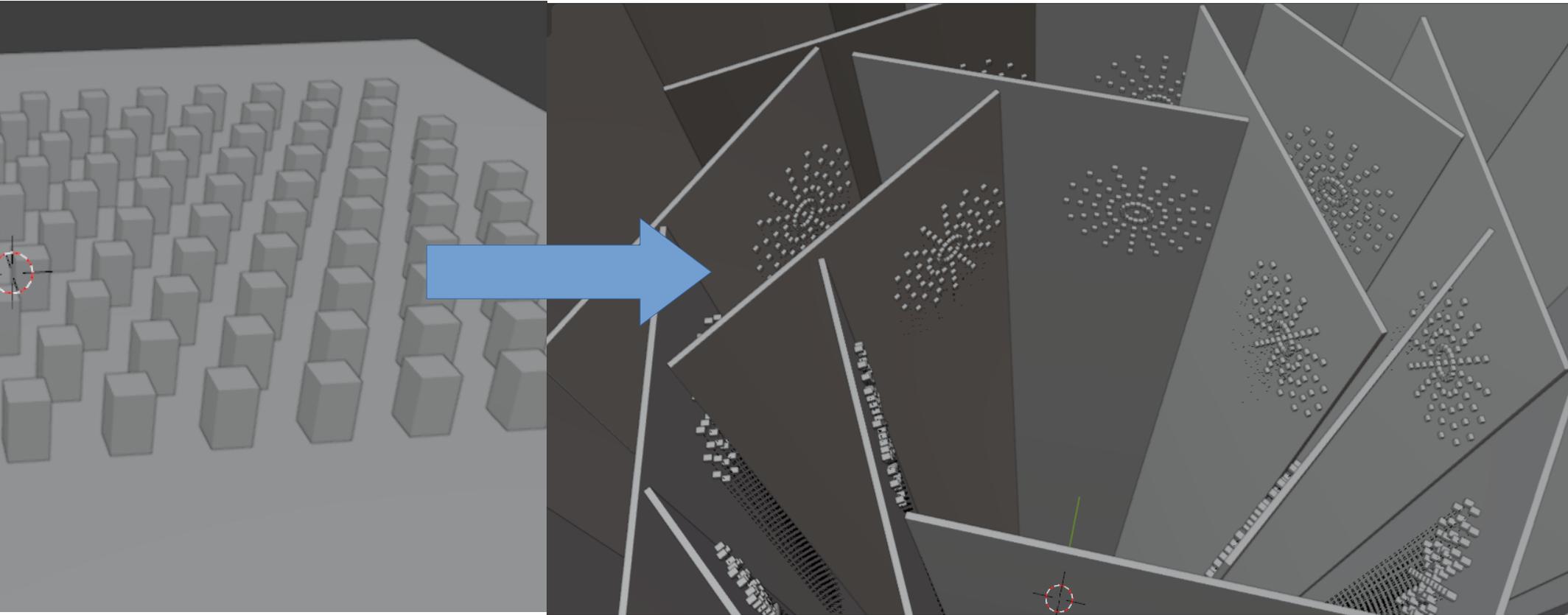


Fixing broken geometry in pillar generation.

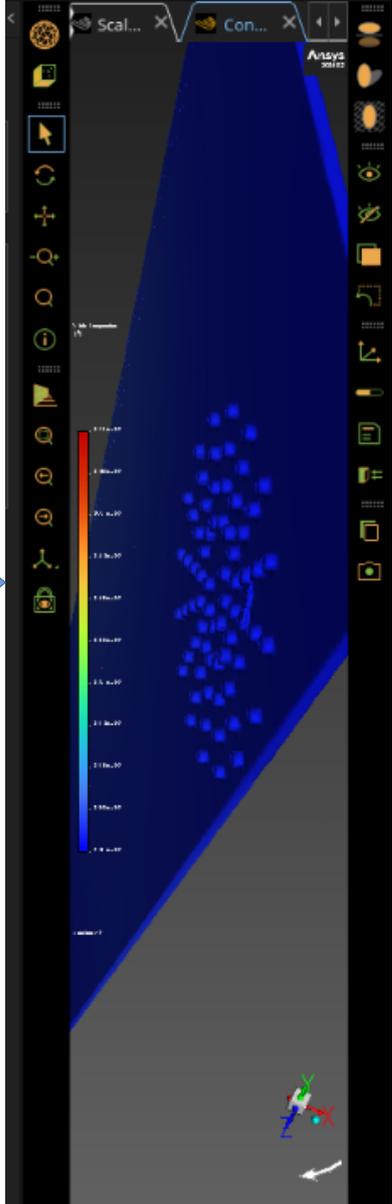
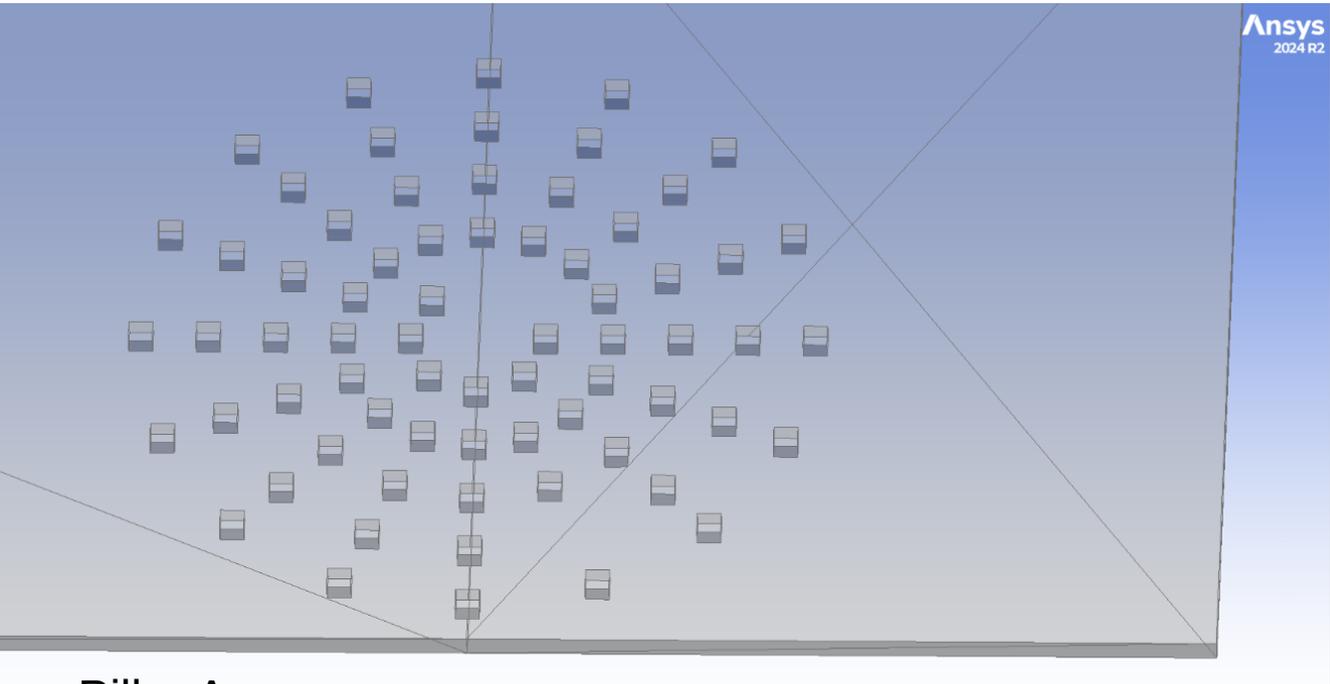


Detector part meshing wasn't successful with simplified air domain.

New pillar arrangement (adjustable number of rows)



Toy run with a single simplified module and pillars - successful!

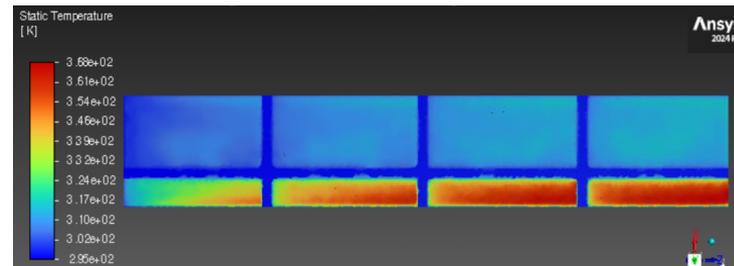
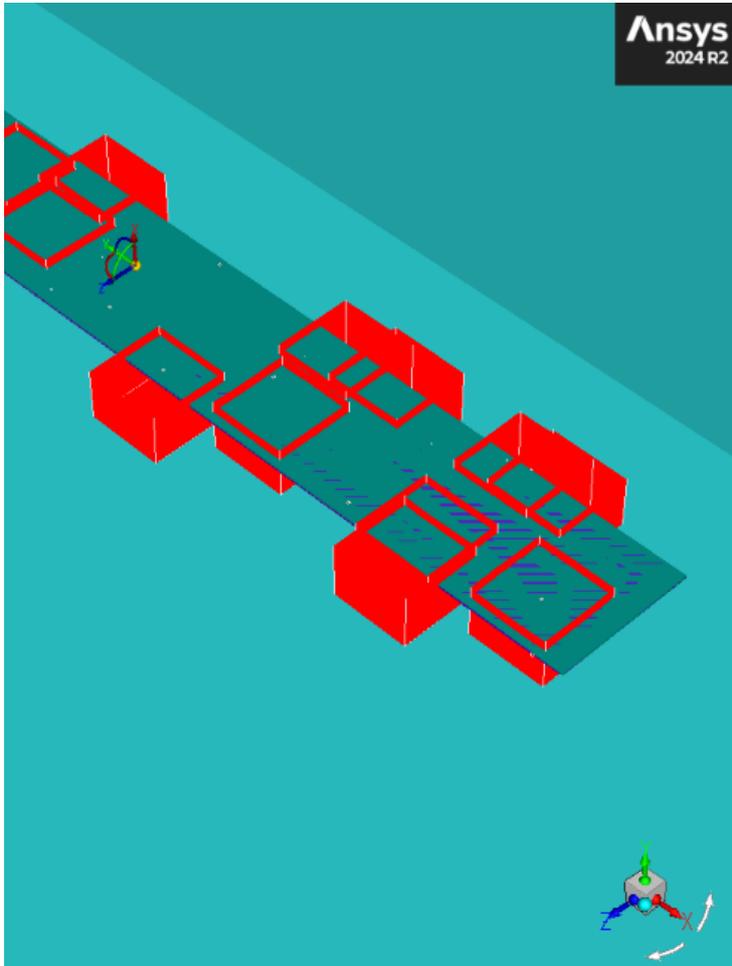


Pillar Ansys runs are doable!

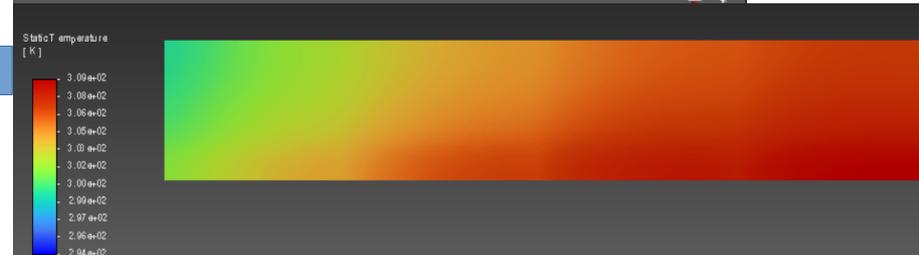
RDL setup with its copies (from August) got corrupted

Due to corrupted data on RDL setup and its copies, was unable to access the mesh settings (only geometry settings).

Rebuilding the RDL setup. Polymer doesn't get meshed in a new Ansys version → troubleshooting.



← From tests before.
Insulation removed
– max ~37°C.



Attempts of meshing new RDL setup with default scale settings:

