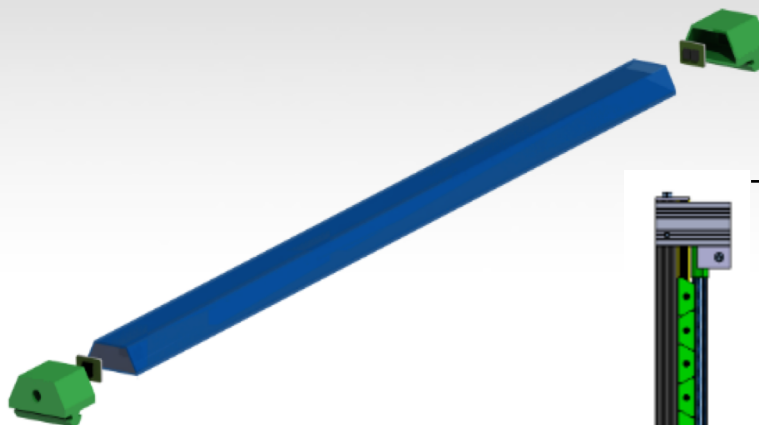
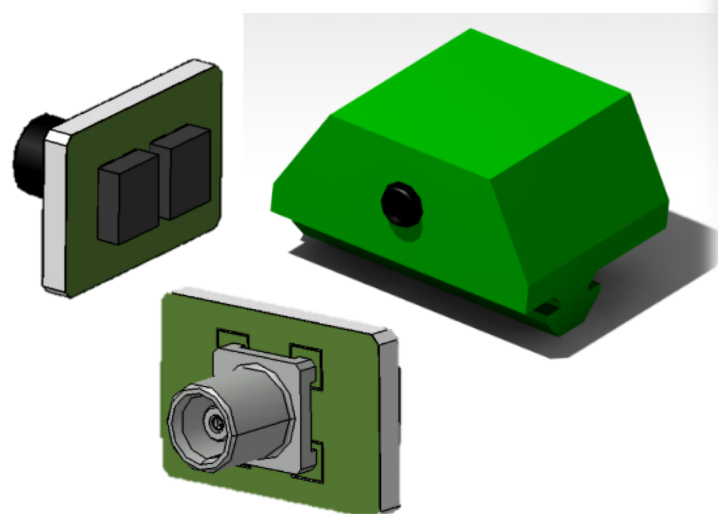


Status of the PSD mechanics for test beam

Felicia Barbato – GSSI and INFN associate

Test beam design - Bars



Dimension: **614x614x66,8 mm³**

Common Detect Area: **0,250 m²**

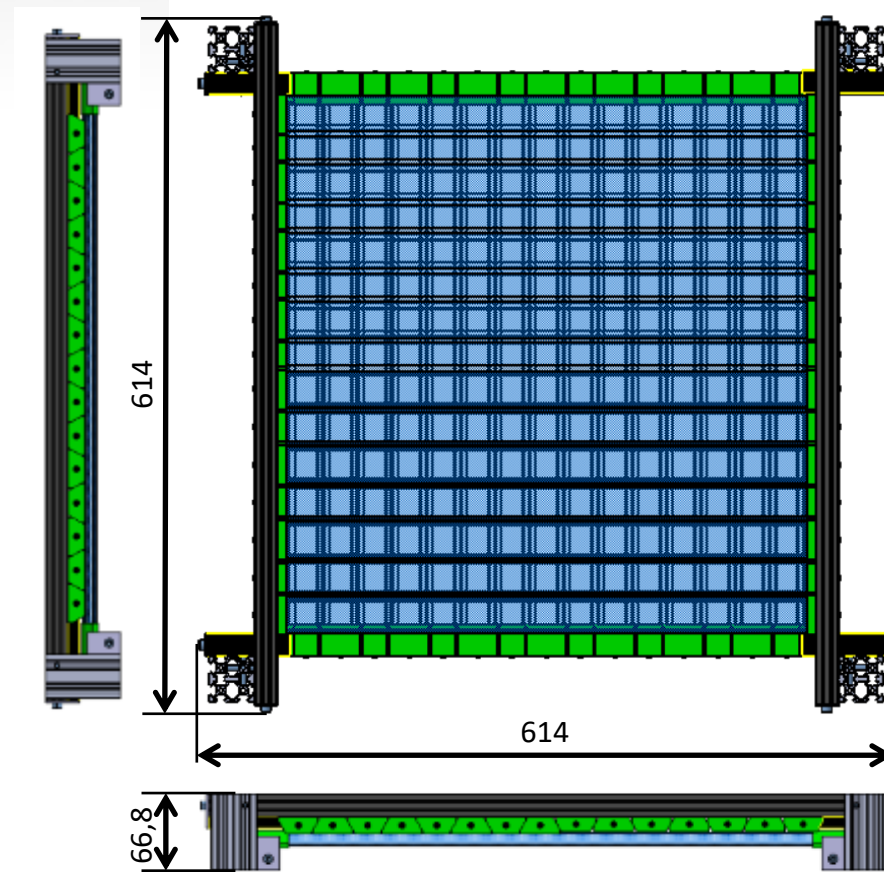
Distance between the two Bar Layers: **0 mm**

except for the 5 mm bars (about 3 mm)

Bars in a layer: **15**

Total Mass: **8 kg**

Middle Section



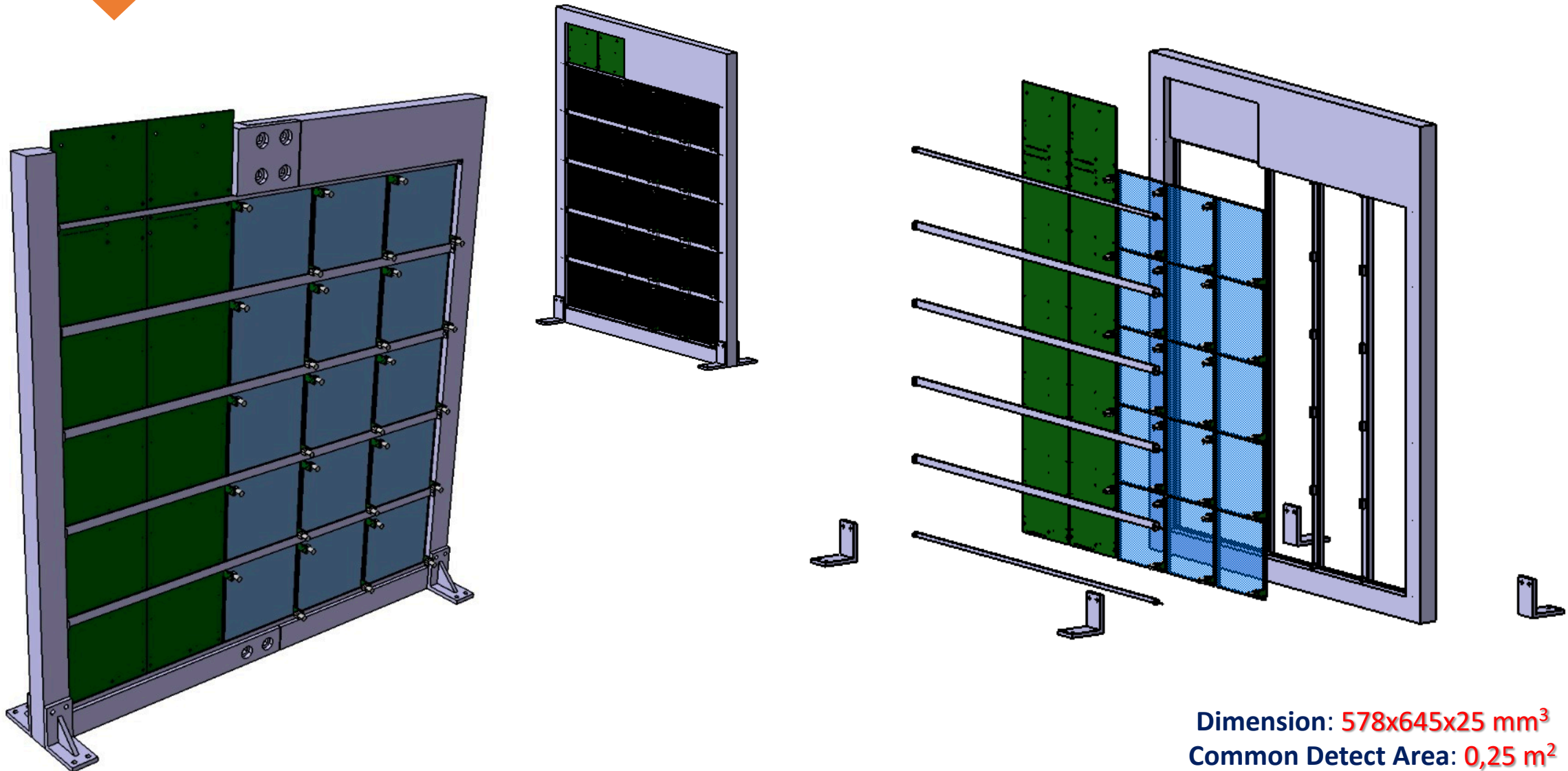
Test beam design - Tiles



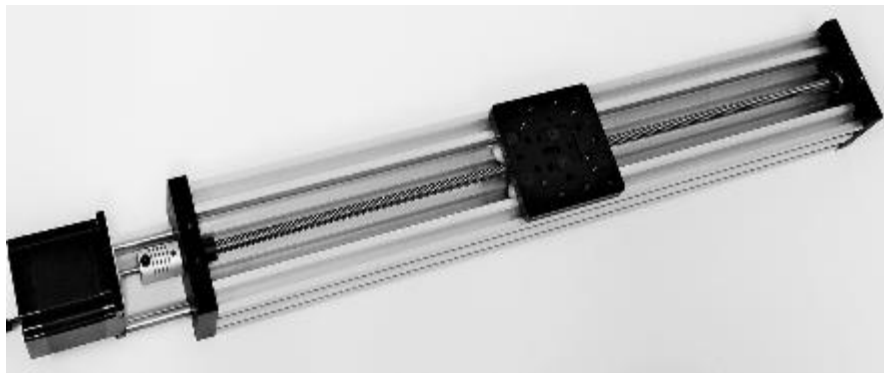
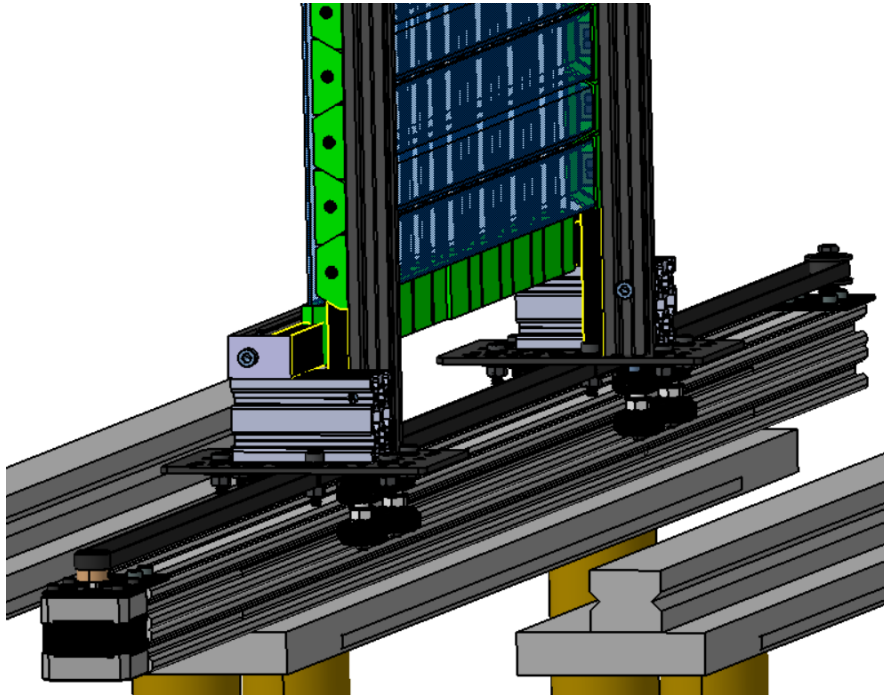
UNIVERSITÀ DEGLI STUDI
DI NAPOLI FEDERICO II



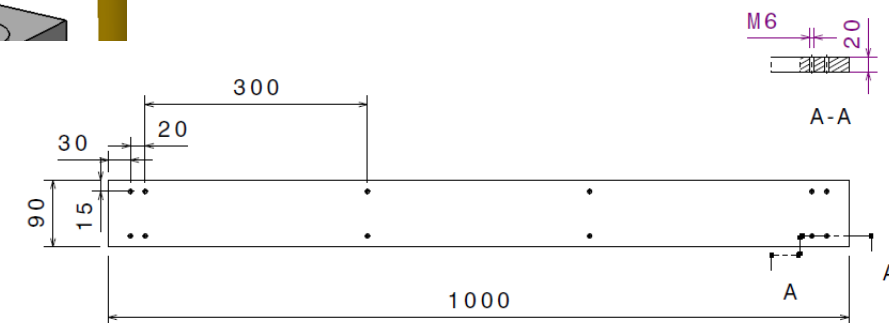
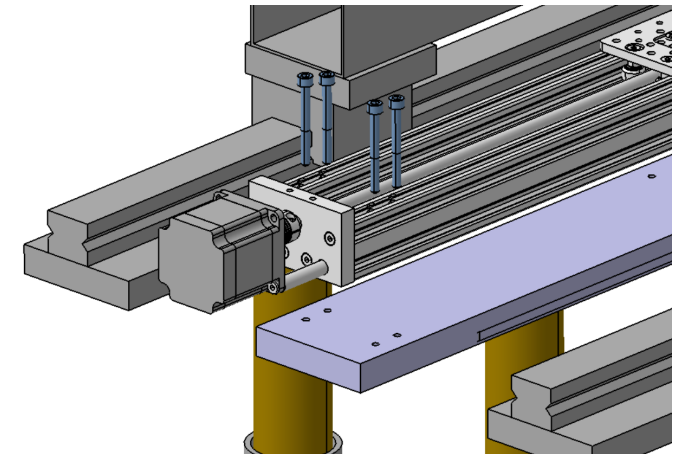
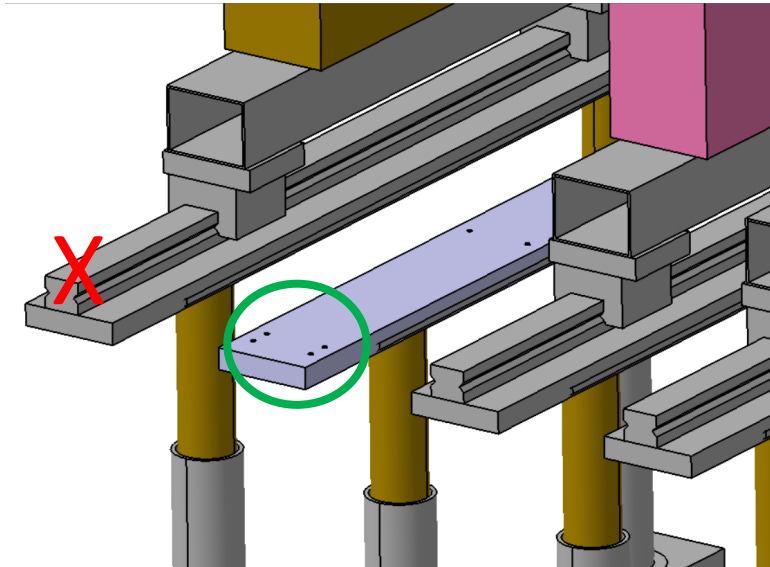
G S
S I



Dimension: $578 \times 645 \times 25 \text{ mm}^3$
Common Detect Area: $0,25 \text{ m}^2$
Tiles in a layer: 25



- 2 PSD Pillars required (one for bars, one for tiles)
- Bars and tiles will use the same horizontal movement
- Bars and tiles will link at the same way on the platform
- Vertical movement required (-25cm, +25cm from the centre step = 1cm, accuracy = 1mm, remote control)



- ✓ Bar frame and horizontal movement (delivered)
- ✓ Realization of trapezoidal bars and endcaps (to be realized by LNGS mechanical workshop by July 30th)
- ✓ Automatization of the horizontal movement (in development at LNGS electronics lab)
- ✓ Bar PCBs and cables (order under elaboration)
- ✓ Tile frame and horizontal movement (order under elaboration at LNGS)
- ✓ Tile frame (to be realized at LNGS mechanical workshop by September 30th)

