



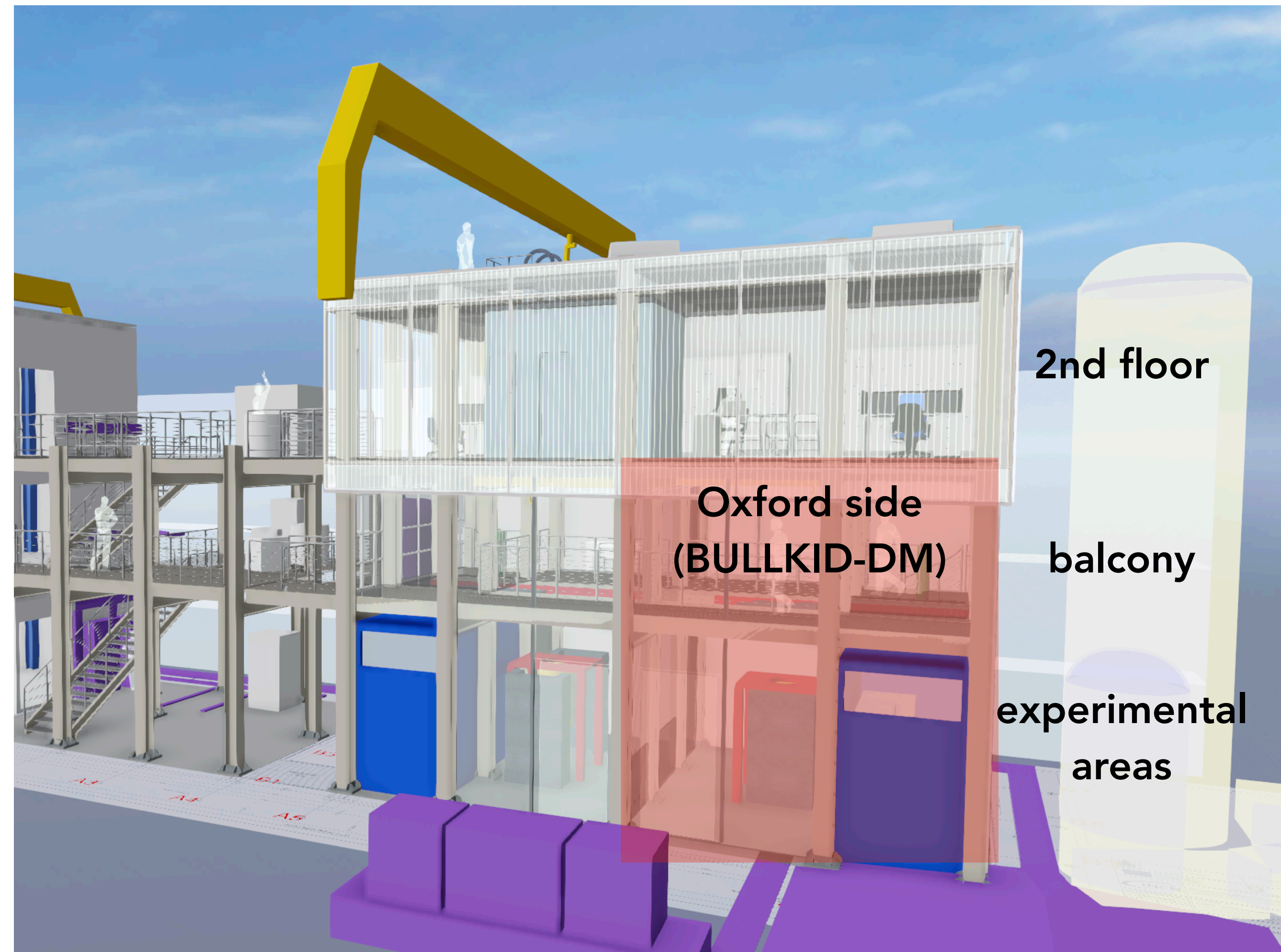
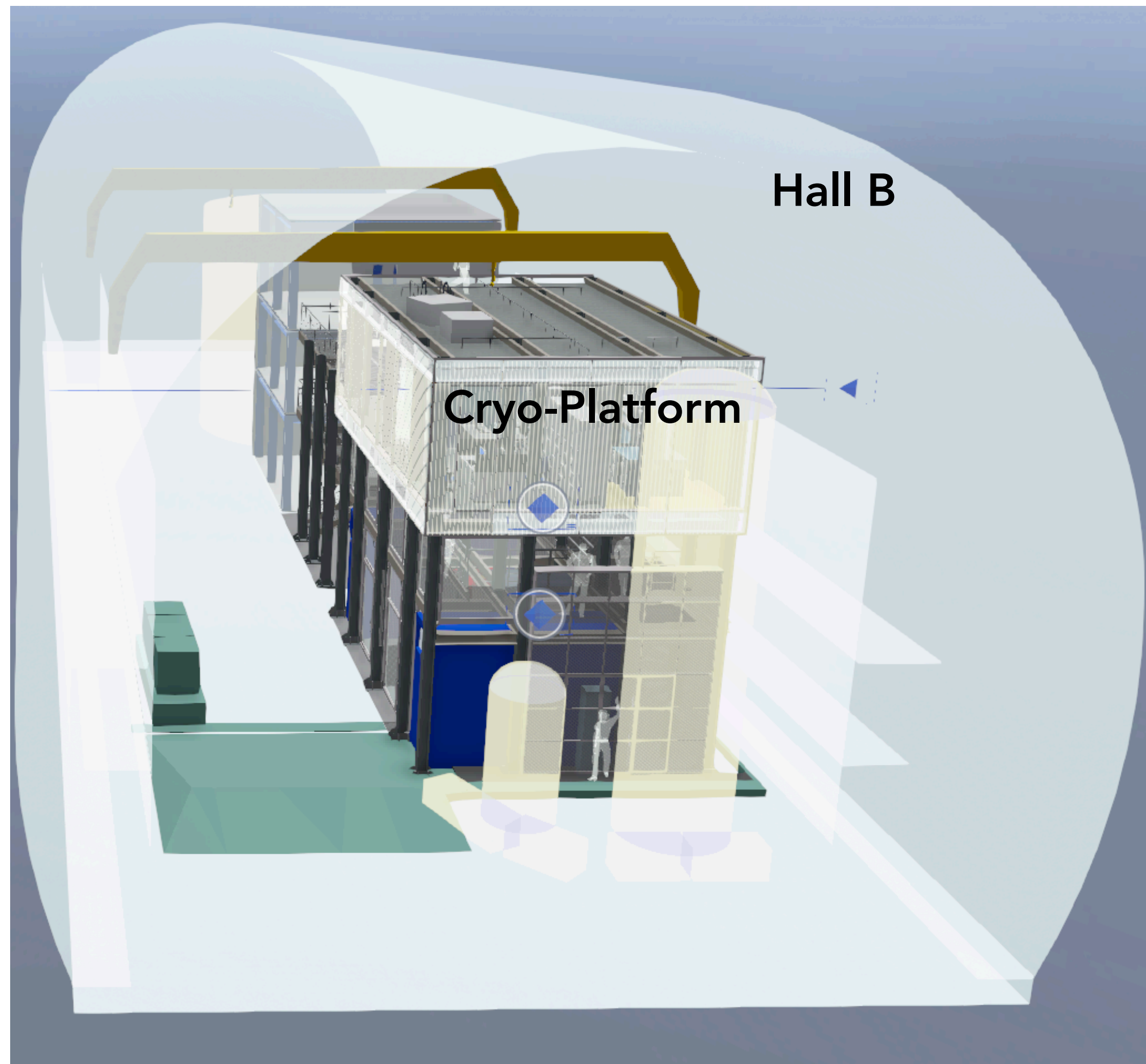
Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Gran Sasso

Status at LNGS

Antonio D'Addabbo (LNGS INFN)
Bimonthly digest, 2 November 2024

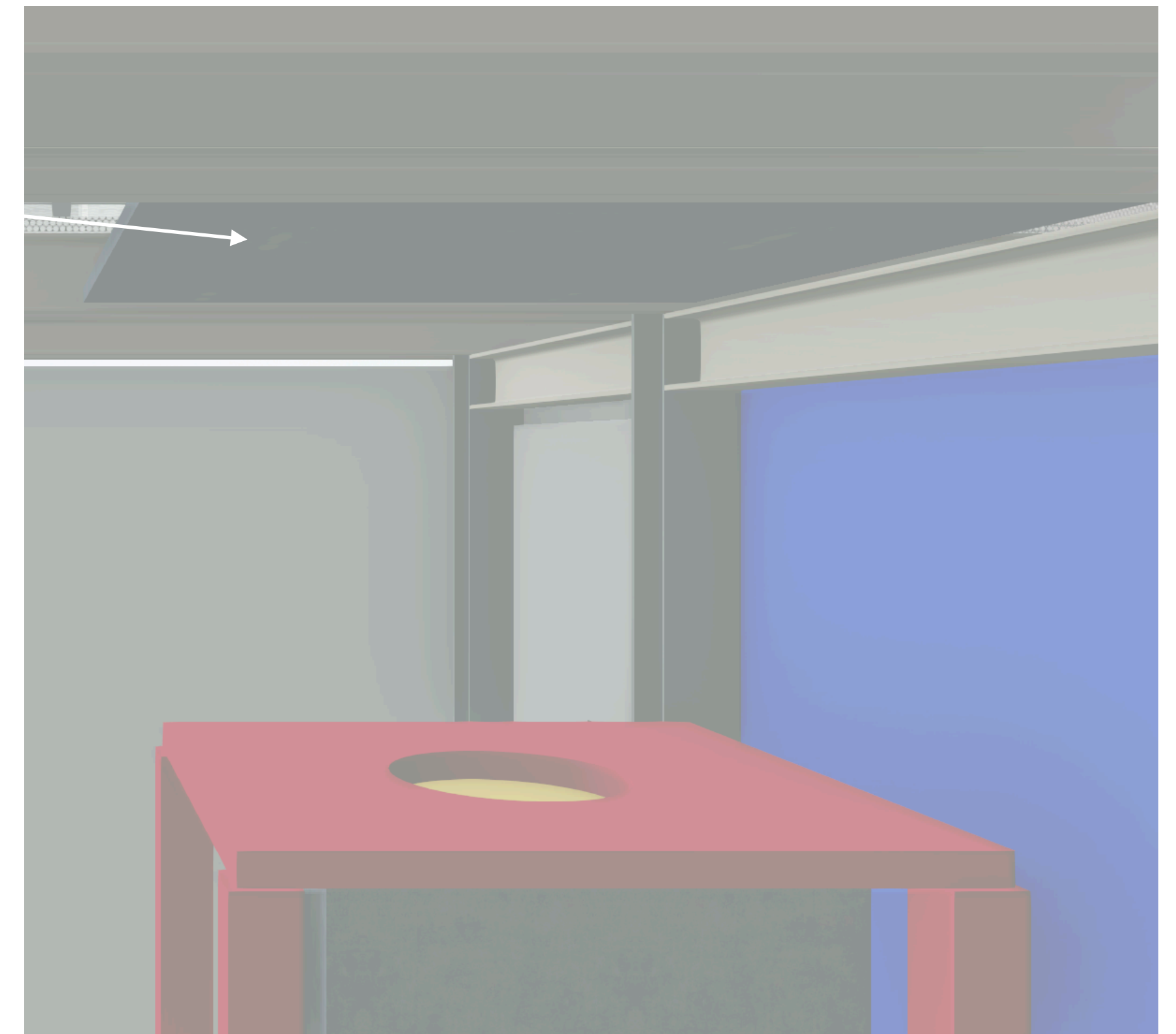
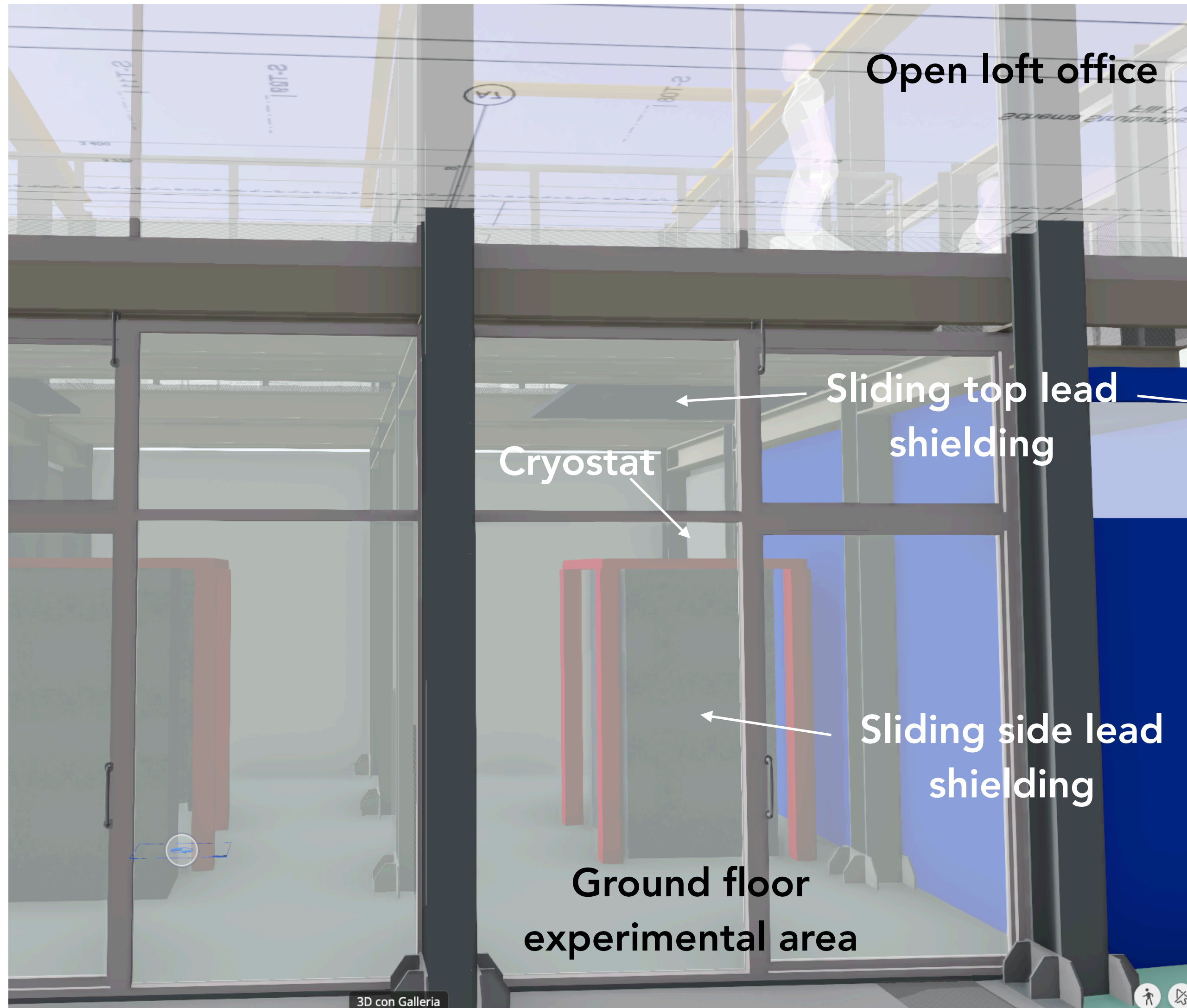


Cryo-P: an underground facility for mK applications



The worksite has official started, the facility is foreseen to be completed in the first half of 2025

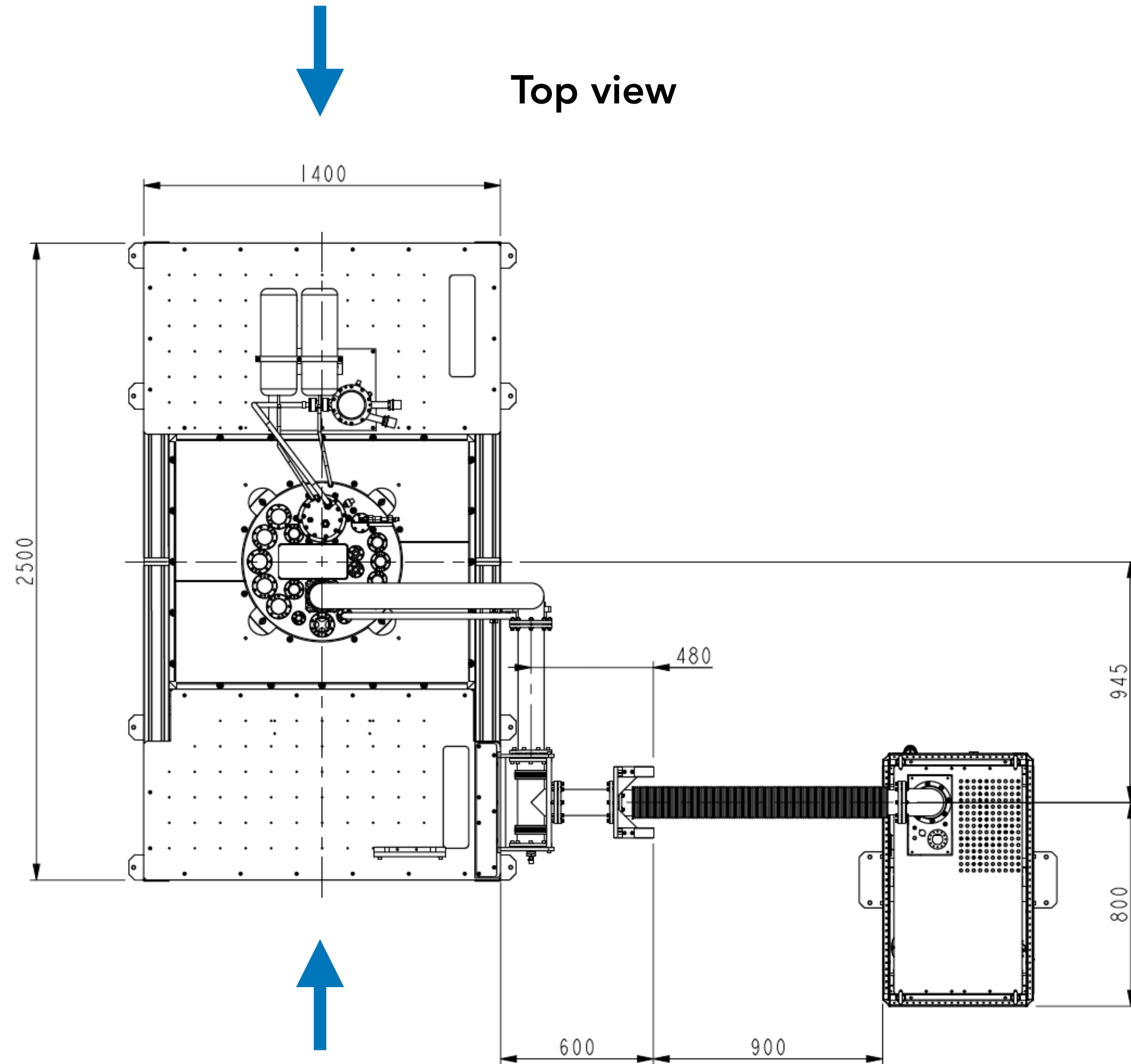
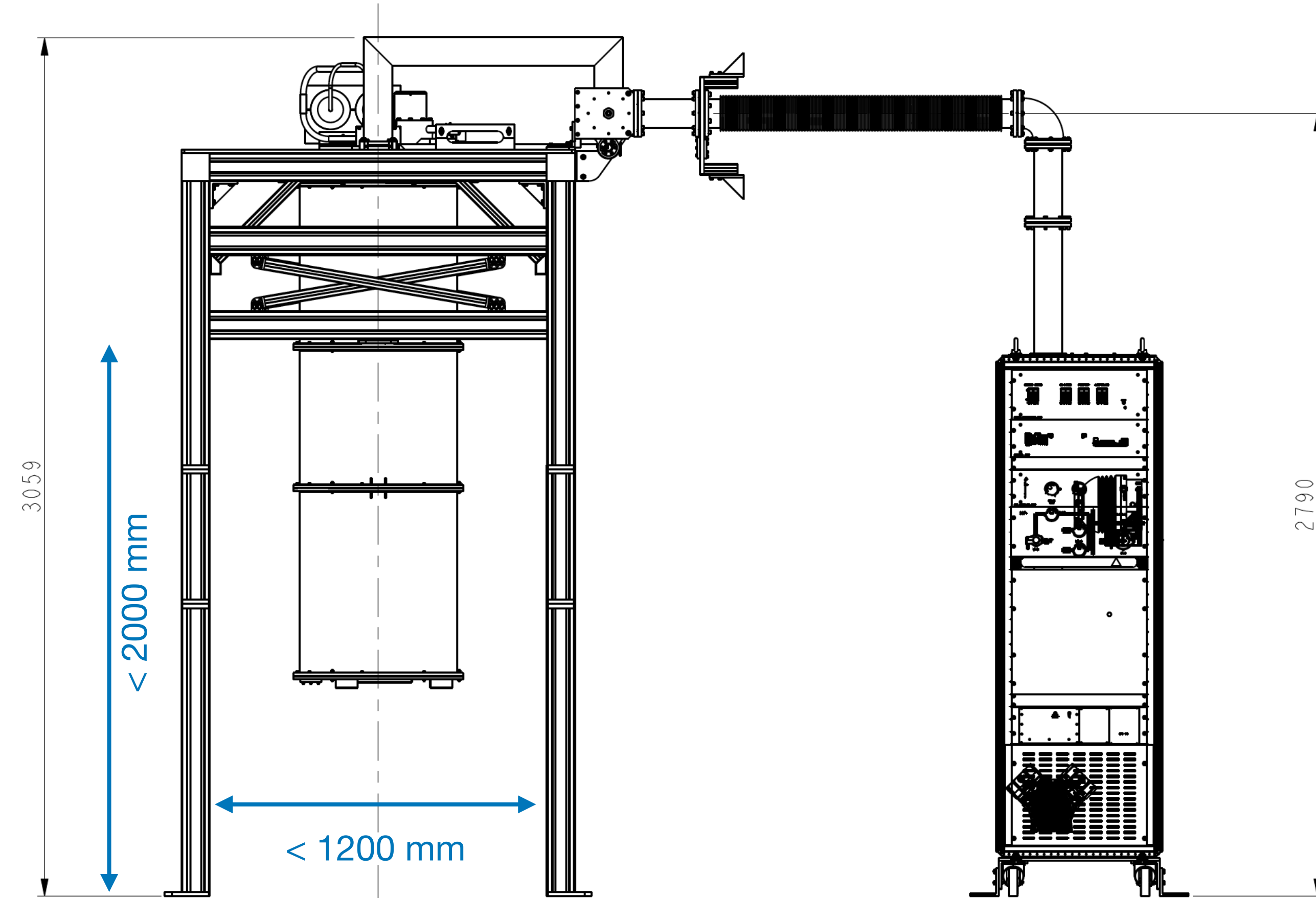
Cryo-P: room temperature shieldings



Cryostat definitive layout

Side view

Top view

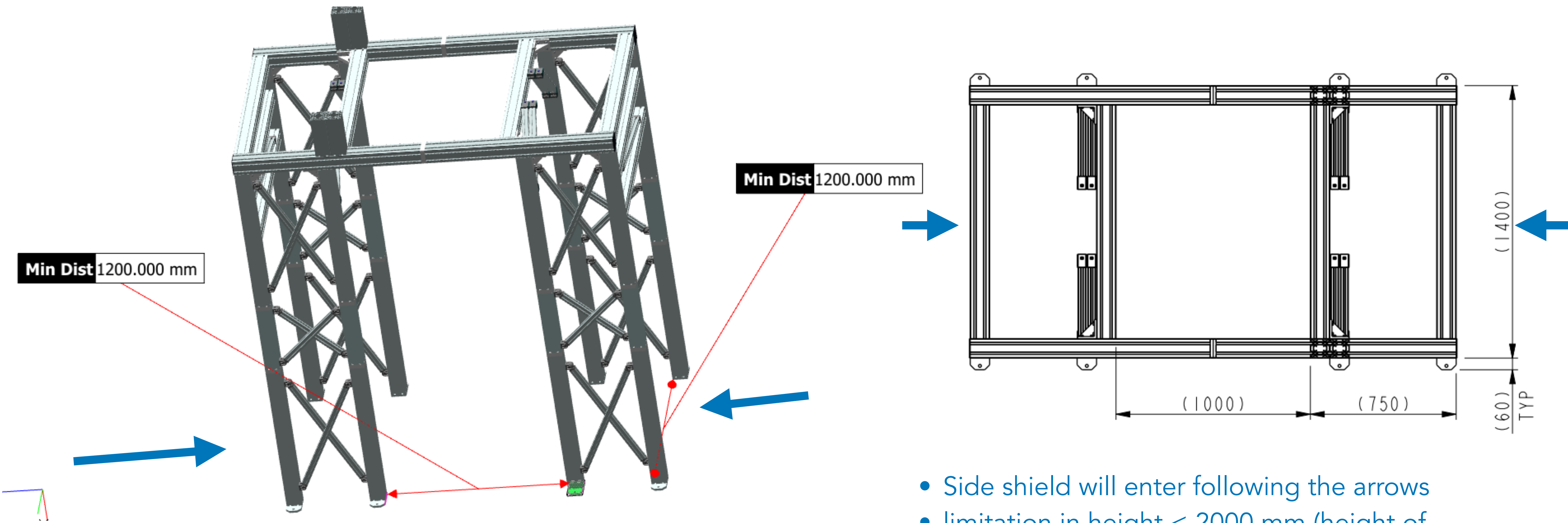


space for side room temperature shielding

Cryostat frame definitive layout

Corner view

Top view

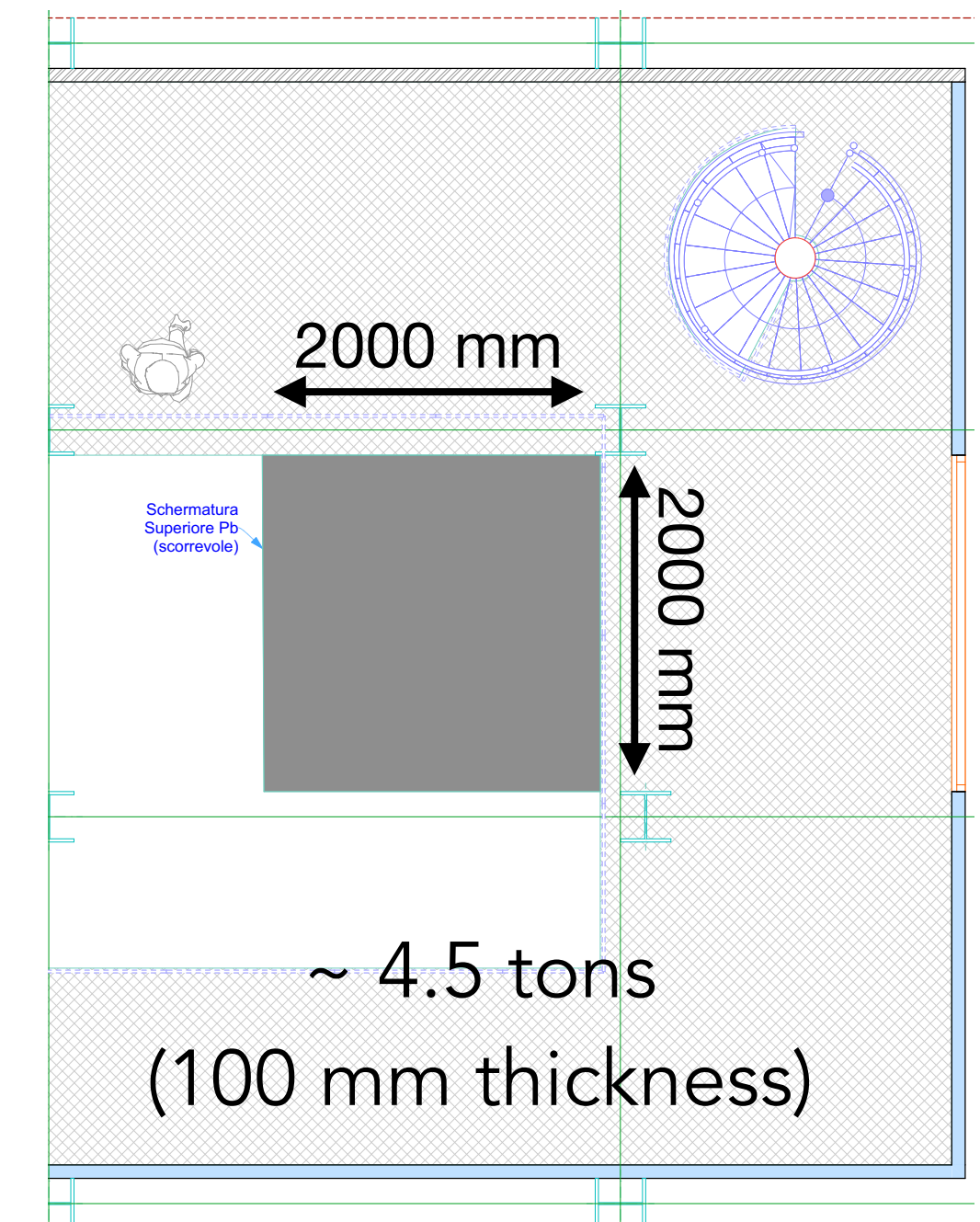
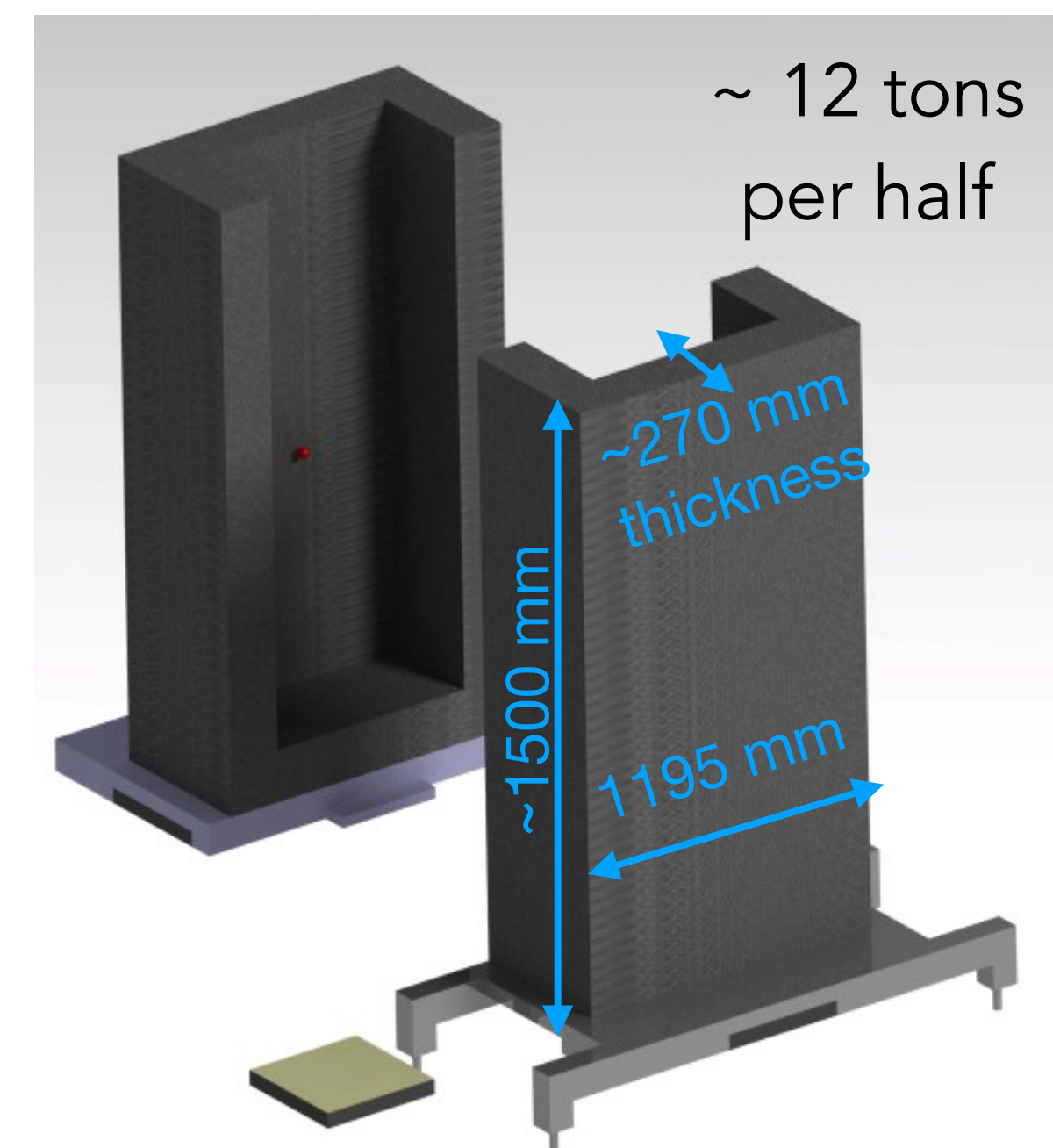
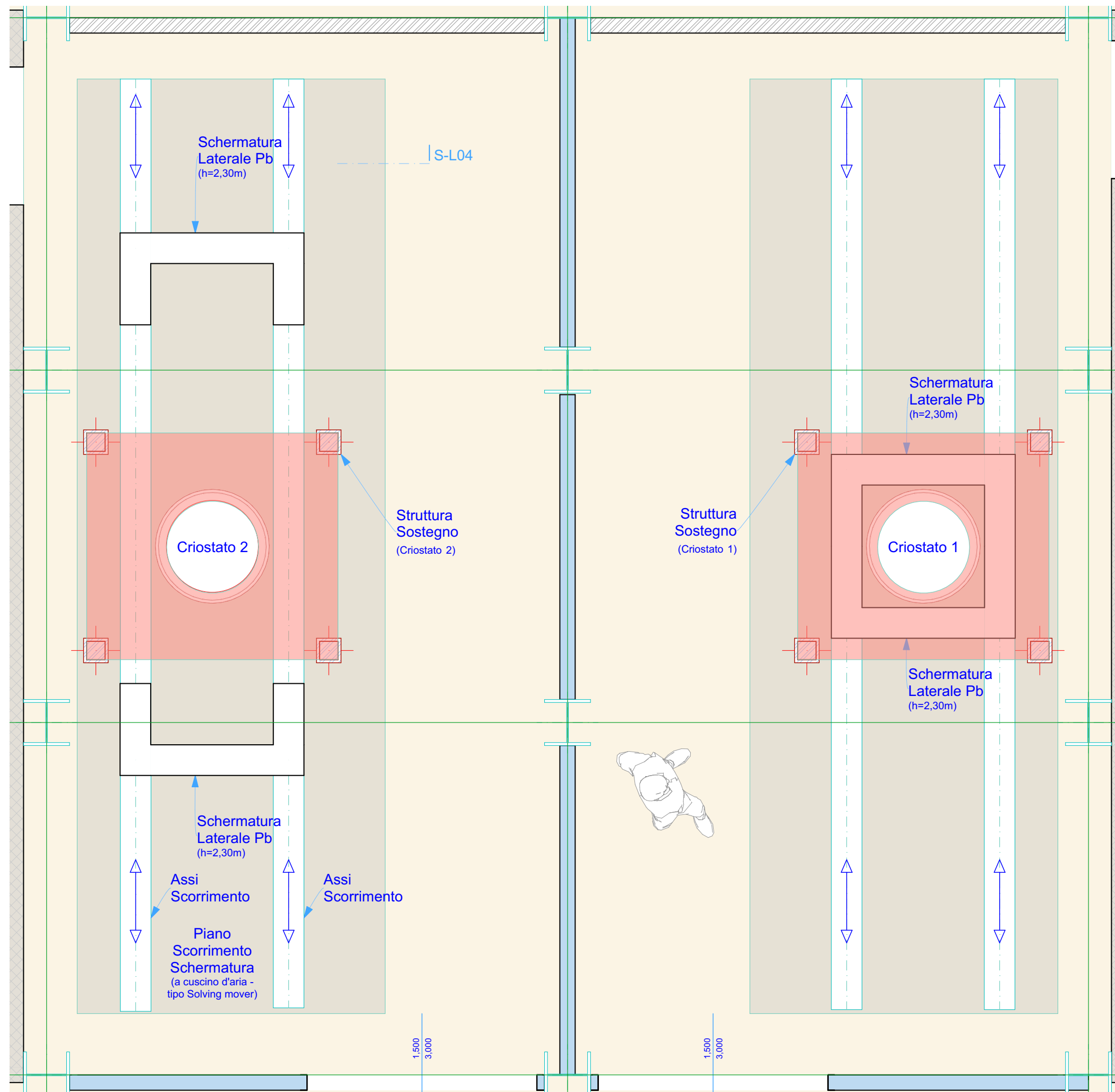


- Side shield will enter following the arrows
- limitation in height < 2000 mm (height of still plate > 420 mm above the MC plate)

Sliding side lead shields

- Started the evaluation of the requirements
- Probable need of an automated system equipped with sensors for safety
- Need of CE certification

we will likely go for an order (~100 k€) to an external company (9-12 months)





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Thanks

