

# USER CASE: **PLUG&PLAY CHAMBERS**

## FOR THE ECOQUARTIER EGLANTINE MORGES (SWITZERLAND)



### BACKGROUND

Losinger Marazzi wanted innovation, tailor-made solutions pushed to its limits and BIM integration. Mobbot technology made this idea come true. No more casting in-situ, but a Plug&Play solutions according to building information modelling (BIM).

Losinger Marazzi integrated 5 custom-made chambers in this project.

### KEY POINTS

- Integration of BIM tool
- Optimization of the prefabricated elements with BIM
- Maximum customization
- Reduction of constraints on site
- Maximize the ergonomoy and safety in-situ
- Chambers installed and connected in 1 hour instead of 2 days



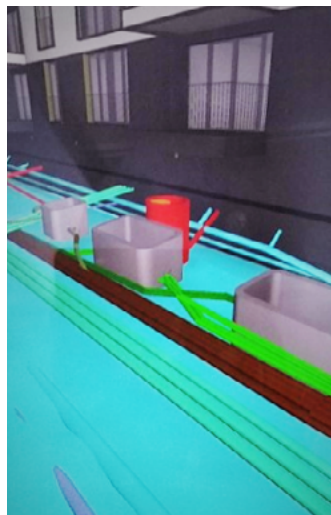
### FLEXIBILITY

custom-made with BIM from dimensions of the element to position of slits



### SUSTAINABILITY

optimize resources  
+ reduce wall thickness  
= 30% CO<sub>2</sub> reduction



### SOLUTION

The dimensions of the chambers were defined by BIM. Adaptations were made as the project progressed to achieve a maximum customization of the chambers. These new values can be transmitted to the Production day to day without interfering on the planning.

The round slits were integrated during the Production, the 3D concrete printing process. The surface of the cham-

bers are inclined to follow the controlled altimetry of the ground.

Thanks to the high mechanical performances of the concrete, some of the wall thicknesses were decreased to 8cm instead of 15cm.

After opening and preparing the pits, the chambers were easily installed and thereafter directly connected to the network (Plug&Play).



### PARTNERSHIPS

Work and BIM Engineers:



Project Manager:



VIDEO

