

# Roucas Blanc's Marina gets a makeover

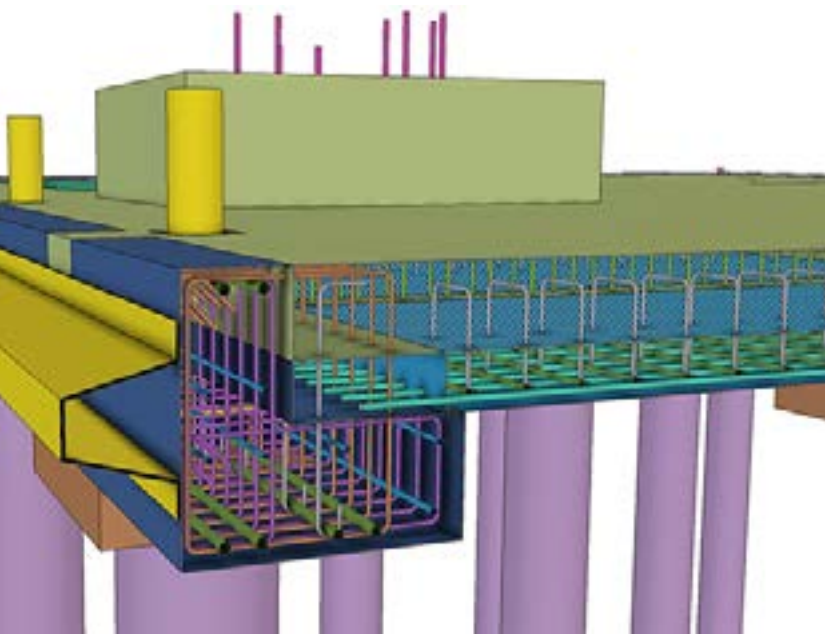


This summer, some 330 sailors from all over the world will compete in the Marina of the Phocæan city. Between new construction and renovation of a historic aera dating back to the 70s, the famous Prado is getting ready for the sporting event of the decade.

Sud Études Équipements takes a look at this modernization project between land and the mediterranean.

## « Marina Roucas Blanc » project presentation

Located at the nothern end of the Prado beaches, the Roucas Blanc nautical stadium is being modernized both and land and at the sea. Six buildings are under **construction** and **rehabilitation**, while marine works are being undertaken to modernize the nautical evolution basin. The goal ? To provide the **best training conditions** for athletes from the Marseille's Sailing Pôle France, as well as sailors of all level.



### The Marina in figures

- Total project area : **49 000 m<sup>2</sup>**
- North quay area : **350 m<sup>2</sup>**
- Internal breakwater : **750 m<sup>2</sup>**
- Concrete volume : **630 m<sup>3</sup>**
- Weight of reinforcement : **80 Tonnes**



SEE is a design office specializing in **civil engineering** and **steel structures**. It was commissioned to carry out EXE studies for the reinforced concrete structures of several structures: the **new inner breakwater** (and its accesses), **the new technical quay** - including a careening area, a lifting crane and a fuelling station - and the new pontoons.

« The technical difficulty of this project lay in the design of a prefabricated structure on offshore piles, interfacing with the existing quay. This was a specific request from our customer, which enabled us to perfect our 3D precast design skills »



**Gilles Deslous**  
SEE Executive Assistant

## Identifying BIM requirements

**3D modeling** was chosen by SEE for this project, enabling :

- facilitate project visualization and technical exchanges ;
- Ensure proper integration of prefabricated parts with other structures on site, as well as with existing buildings.

## Project progress

● Solicitation of SEE by the **construction and prefabrication company**.

● Lanch of all reinforced **EXE studies** by SEE.

● Lanch of the 1st 3D **structural models** and sharing with the customer via **Trimble Connect** in order to discuss the design.

● Integration of all 2D drawings in **Tekla Structures** : topographies of the existing structures and studies from other design offices (networks, steel footbridges, etc.).

● Lanch of the **modeling of all parts** with Tekla Structures.

● 3D re-modeling of key elements of the **reinforced concrete structure**.

● For the most complex structures: refinement of prefabricated elements and further discussion with the customer and prefabricator to ensure **technical feasibility** (dimensions, weight, construction company preferences, etc.).

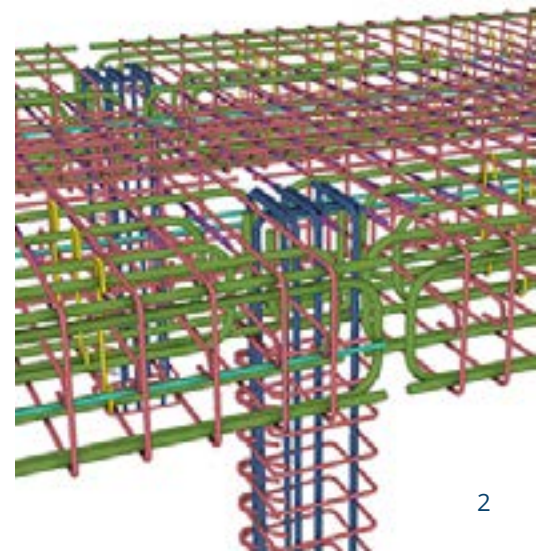
● Once the parts have been fixed, **lanch of the 3D reinforcement** with Tekla Structures.

● Output of formworks **drawings**  
– layout drawings  
– part by part and reinforcement.

● Transmission of drawings to subcontractors and launch of **fabrication parts**

● **Adjustment** of models during the fabrication phase.

● Availability of the models for the **erection team** via Trimble Connect.



# Trimble's advantage for SEE



## Better visualization

- **3D models** allow you to better visualize your parts during production
- These models **facilitate understanding** between the customer and all project stakeholders.



## Synthesis tool

- Integrates **3D models** and **2D drawings** from other project stakeholders.
- Tekla Structures enable remote collaboration on the same project.



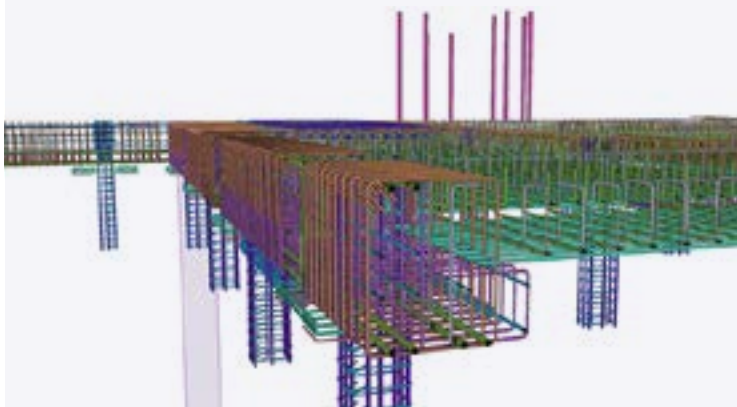
## Helpful for quantity take-off

- Simplifies **volume** and **weight** calculations of prefabricated parts.
- Facilitates **lifting** and transport of prefabricated elements.
- **Automatic quantity take-off** via Tekla Structures.
- Allows to justify **quantity take-off** to the final customer.



## Easy erection on site

- Makes model exploration accessible to erection team via **Trimble Connect**, facilitating their understanding of the drawings.
- Promote **exchanges with on-site construction team** and better responds to their needs.



« On site erection went well and the fact that we were able to model everything in 3D – including reinforcement – and being able to share this model thanks to Trimble Connect was a great help to the site teams. We had no unpleasant surprises during the erection on site. »



**Gilles Deslous**  
SEE Executive Assistant

**The world's best sailors will set sail from a brand-new Marina in the summer of 2024!**

[See our other projects](#)

