

I. Pontile 3 e Fosso di Bonaugurio

Civitavecchia Seaport

PROJECT INFOS



PROJECT

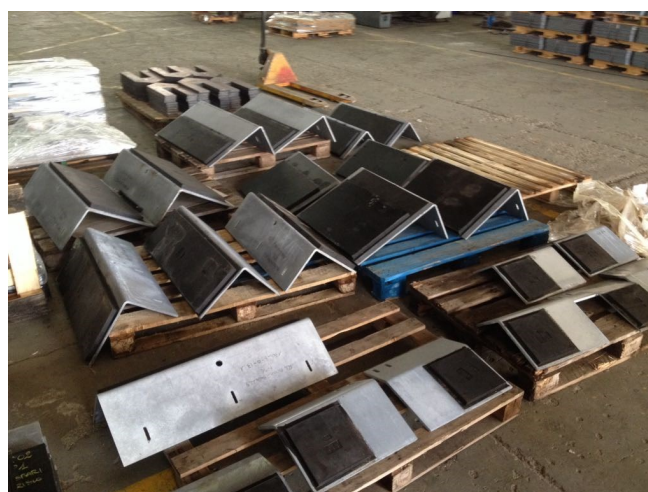
The construction of the Strategic Works has provided a growth of maritime trades, an improvement of mooring and berthing services, and an increasing offer of mooring length. As a consequence, the Port of Civitavecchia can undertake the role of harbor Hub of the Tirrenian sea. The so called "1st functional lot" consists in the following main works: extension of the Cristoforo Colombo breakwater for 413 m in order to shelter the Ferry Basin from the incident wave action; construction of the Service Basin; construction of the Ferry Basin with 3 perpendicular piers.

The extension of the C. Colombo breakwater and the basin berths were constructed using cellular caissons. In order to reduce the residual wave agitation in the protected basin and to improve the efficiency of loading and unloading activities at berth, the inner caissons have been designed with wave energy absorbing chambers consisting in perforated concrete sea walls. In the Service Basin, innovative caissons were placed, called REWEC3 (REsonant Wave Energy Converter), to produce energy from incident waves using turbines. REWEC belongs to the more common family of Oscillating Water Columns (OWC) devices. Smaller cellular caissons have been placed in the Ferry Basin to construct an open pier 243 m long for ferry ships

SOMMA supplied 110 elastomeric bearing serie ESAFLON, 262 elastomeric restraint serie ELB e 430 m of expansion joint serie SM.



[Serie SM](#)



[Serie ELB](#)



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