

Virtual reconstruction of the Royal Almonas of Seville in Triana.

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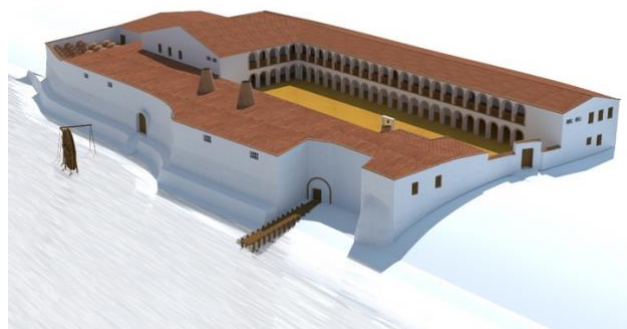
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Introduction:

The white soap, of Muslim origin, produced in the Reales Almonas of Seville in Triana, known as "soap of Castilla", was common in all noble houses until well into the eighteenth century, in the Iberian Peninsula and in America, England or Flanders, becoming the most sought-after soap and considered of better quality on both sides of the Atlantic.

Today its location is taken by blocks of flats and the only memory of its manufacture today is a ceramic plaque placed in the new building thanks to some neighbors, who claimed its importance as Ángel Vela and the one who was "mayor of Triana", Alberto Jiménez Becerril.

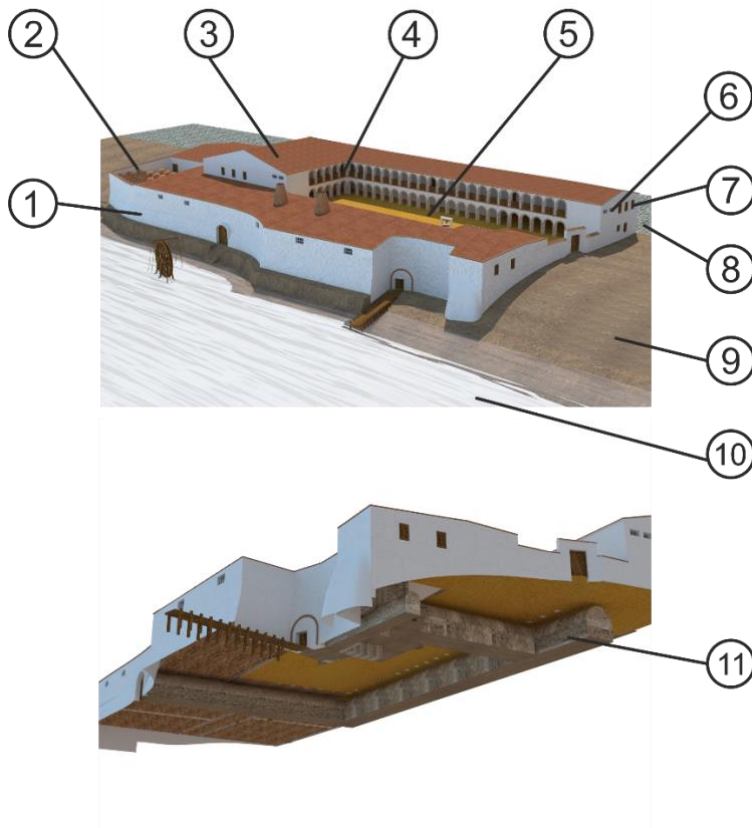


Our group has managed to systematize much of the little information available to make the virtual reconstruction in 3 dimensions of the Royal Almonas of Seville in Triana, as the first step of an exterior recreation of the factory. https://aula.aguapedia.org/pluginfile.php/15094/mod_resource/content/0/Reales%20Almonas%20paseo%20sensorial.pdf

Redesign of the Paseo de la O in Triana as Paseo de la Jabonería:

This virtual reconstruction, which has been carried out with the Rhinoceros program, is based on a series of blueprints made from the information that has been obtained from different documents of the time, most of them recovered thanks to the historian Joaquín González Moreno, has also been helpful the few photos that were taken of the place before its collapse in 1999 and the technical report that was made in 1988 when the remains of the basement of the Almonas where the soap and the ingredients to make it were kept were discovered.

From these plans all the walls of the building were raised, to later add all the details of doors and windows, the different floors were also created at their respective heights throughout the building. The roof and roof were also modeled, as well as the tiles. Finally, decorative details made in brick were modeled on the arches of the courtyard and on the main door and the door that led to the small port of the factory. After modeling the building, the same was done with the environment, for which old photographs were taken as reference before the Paseo de la O was built. With all the modeling done, the next step was to give materials to all the surfaces created, for this 11 materials were created.



The last step was to give a correct lighting to the virtual environment, for this latitude and longitude of the factory were sought and the data were inserted in the environment, creating an illumination as close as possible to reality, putting a sun in the exact place where it would be in the place, finally, an hour and a day were established, choosing a summer day at noon.

Due to the impossibility of accessing the remains of the Reales Almonas, the current Paseo de la O is being designed in our Tar group as a permanent exhibition of them for your enjoyment and knowledge, from the placement of the 3D virtual reconstruction in bronze, to the murals and painting on the ground, new squares of the olive grove and the almarjos and graphics of the commercialization to Europe and America.

We want to thank our library of the Polytechnic School for the search for information by land, sea and air, thank you Paz. Elena and company.

References:

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C. V. of the authors:

- Mercedes Ortiz Velasco: Industrial Design Engineer 2023, expert in historical recovery and 3D representation. Member of the Tar I+D+I group, directs the TFG of the design of the Paseo de la Jabonería in the current Paseo de la O, in Triana and works on the recovery of native seeds in La Carlota, Cordoba.
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