

CITY OF ARTS - VALENCIA

ACTIVITY:

Reparation and protection of the metallic structure of the rainwater collection tank (see underlined with a yellow circle in the upper right area of photo).

LOCATION:

Ciudad de las Artes – Valencia – Spain

FINALIZATION: July 2008

CONTEXT:

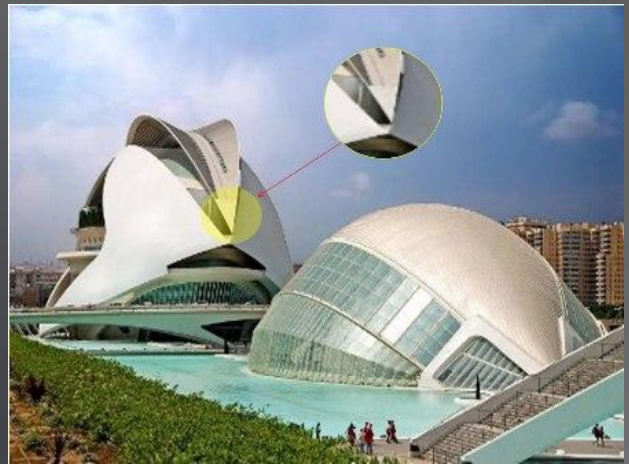
Corrosion problems and holes in the metallic rainwater collection tank. Tank is on top of the cover at a height of 99 meters.

Presence of water leaks through the damaged structure causing corrosion problems in other areas of the outer armature of the architectural structure.

DESCRIPTION:

Repairing and protecting inside the tank channeling rainwater from the roof. Previous we prepared the surface by eliminating corrosion and contaminants. Thereafter we repaired perforations by using a ceramic and metallic system for covering damaged areas and low sections.

Continued ...



CITY OF ARTS - VALENCIA

Finally we manufactured a new deposit inside the existing tank by employing advanced coatings, resulting in a jacketed plastic tank resistant to corrosion and having high performance against weathering.

Currently this architectural building has serious problems and deficiencies of the cover (lost of 60% of the surface of the cover, with water inlets and steel oxidation) caused by the design (lack of expansion joints) and the selection of materials used in its construction (the inconsistency in the ratio of expansion of steel sheets and ceramic trencadis - a type of mosaic-).



Picture: Newspaper El Pais. Valencia.

Despite the structural position of the Palace of Arts, it has not affected the perfect state of reparation of the metallic rainwater collection tank.

