

PARLIAMENT BUILDING QUÉBEC – CANADA

The restoration works on the Québec Parliament Building started on 5th October 2005, 110 years after the initial instalment of the cornice.

The very top of the cornice is at 52,5 m distance from the street pavement.

Workmen in a basket hanging from a 180 Tons heavy crane with an arm of 80 meters had the cornice dismantled and descended. Then the cornice railings were removed, in one piece.

The surface was roughened at first using glass micro marbles.

Confronted with such an extent of corrosion threatening to destroy the entire project as well as generating rust traces on the roof of the tower, it became necessary to expand the operations so as to ensure the survival of this significant piece of work. It has been decided to start dismantling the entire piece of art, approximately 450 pieces, before continuing with the treatment.

This is a picture of the mobile **ZINGA** unit ready to start recoating the cast iron railings at **the Parliament Building in Quebec City!**



System:
ZINGA 2 x 60 µm DFT
+ 2 layers PU coating



Etching the surface has allowed to determine the deterioration of certain elements.



Composition highly attacked by corrosion



Etching by means of micro glass flakes

The blasting continued with steel micro marbles in order to eliminate all of the remaining rust, more in particular the rust in the holes and the hidden spots.

Afterwards, and with the ultimate goal to put a radical stop to corrosion, all of the components, new and old, have been given a generous zinc coating according to the process of Film Galvanisation by **ZINGA**. Eventually, two layers of high performance polyurethane paint have been applied so as to ensure a long time protection to the art objects.



All compositions have been submitted to a ZINGA application.



Starting from the cutting, the highly damaged elements have been reconstituted.



Refurbished and painted guardrail