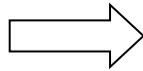


RÉABILITATION RÉSERVOIR D'EAU DE VARENNES



Location: Varennes, Qc

Architect: CBA Architecture Inc.

EIFS applicator: Les Revêtements Isolex Inc.

EIFS system used: ADEX-RS by ADEX Systems Inc

Completed: 2021

SUMMARY & CRITERIA

For the population of Varennes, the rehabilitation of the water reservoir was an unequivocal question being an essential component to the population. However, the challenges were enormous.

Due to its height, its irregular shape, not to mention the poor condition of the existing cladding, our team came up against several obstacles in order to make it possible to seal the tower and optimize thermal resistance in order to preserve what is most precious: potable/drinking water.

Of all the existing cladding solutions, only the “adex-RS” Exterior Insulation and Finish System (EIFS) from Adex allowed us to meet our objectives. Following the removal of the existing cladding, we had to deal with an extremely uneven substrate. Adex’s HYDROFLEX liquid-applied water resistive barrier was a major asset in sealing the building.

The EIFS cladding assembly includes a grooved expanded polystyrene insulation 10 inches thick, allowing to considerably increase the energy performance of the envelope but above all, allowing us a dynamic architectural creativity.

Despite the thickness of the insulation, we succeeded in marrying the circular shape of the tower and inserting, on the surface of the insulation, curved lines over the entire height of the tower, thus creating a fluid movement similar to the water contained in the tower. We have also opted for the GRAPHEXCOAT protective coating from Adex, which will ensure one of the best impact resistance for such cladding assembly.

We must underline the close collaboration as well as the quality of execution of the company Construction Bugère and Les Revêtements Isolex, without which this project would not be what it is today.