

Galvatech2000.com  
PROTECTION SPECIALIST  
AGAINST CORROSION



GALVANIZING COMPOUND AVAILABLE IN AMERICA



RUST-ANODE® Technology

STEEL  
STRUCTURES  
EXPERTISE

BRIDGES, STEEL CABLES,  
RETAINING WALLS, TANKS,  
WALKWAYS, CULVERTS, DAMS

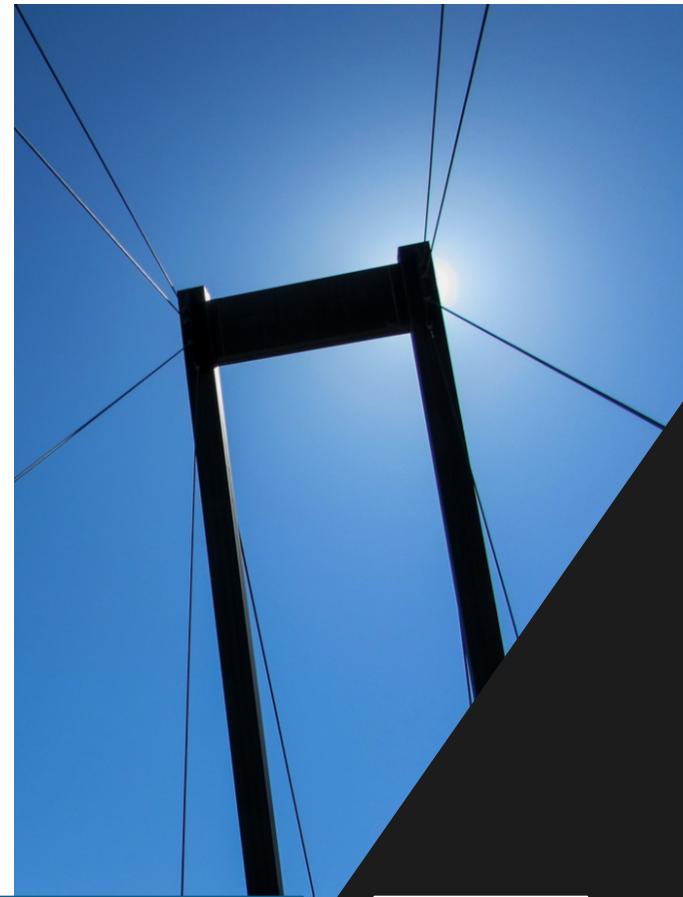
[See video presentation here](#)



OUR UNIQUE GALVANIZING  
TECHNOLOGY, AN EFFECTIVE  
SOLUTION FOR THE PROTECTION  
OF STRUCTURES.

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# WHAT WE DO

Since 1954 the RUST-ANODE® products have been known and applied in more than 50 countries! Their superior characteristics have placed them at the forefront of anti-corrosion solutions. Approved by the leading official laboratories in Europe and adopted by NATO forces from its beginnings, the RUST-ANODE® Technology has established itself as a World leader in guaranteeing active protection and life extension of current assets.

Our technology provides active cathodic protection to steel structures. Galvatech zinc compounds are single component products that merge with old zinc layers that recharge the cathodic protection of galvanized and metallized steel. Our revolutionary solution is perfectly adapted to be used at coating facilities and for on-site work.

They are proven anti-corrosive treatments that act as an active layer on metallic surfaces. The performance of the technology against corrosion is comparable to the Hot-Dip-Galvanization (HDG) process and significantly reduces maintenance costs of your assets compared to standard paints, allowing a low cost and effective solution.

## We offer ;

- Technical support with qualified AMPP (NACE) trained technicians
- Collaboration with project managers for the preparation of technical documents
- Customer team training for a better understanding of corrosion control mechanisms
- On-site and remote technical support for the RUST-ANODE® Technology application.

## Our unique technology provides ;

- Superior corrosion protection
- Excellent barrier and sacrificial corrosion protection
- Extended lifetime of maintenance programs
- Increases asset's integrity lifetime and reduces maintenance costs
- Unique zinc rich galvanizing compound
- Extra fine pure zinc atomized (99.995% purity), resulting in a greater zinc density and a performing anode
- One component that eases the application
- Provides protection in the same range as HDG
- Low VOCs; it contains an extremely low concentration of volatile organic, making it more environmentally friendly
- Zinc color mouse grey (RAL 7005)



# WHO WE ARE

Galvatech 2000 is the master distributor for Rust-Anode. For Americas and Europe. SPRL is the well-known manufacturer of galvanizing compounds. With their 50,000 square foot facility includes a state-of-the-art specialized laboratory.

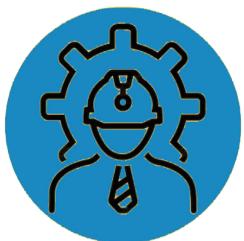


- **FREE ENGINEERS AND TECHNICIANS CORROSION FORMATION PROGRAM BY VIRTUAL CLASS.**
- **ALTERNATIVE TO HOT DIP GALVANIZING, METALLIZATION AND CORROSION BASICS.**
- **APPROVED BY MANY ENGINEERS ASSOCIATIONS**

[Click to see the topics](#)



Develop your knowledge, according to your availability in virtual class and receive an attestation



**Contact François Bellefleur to reserve your formation date**

[francoisbellefleur@galvatech2000.com](mailto:francoisbellefleur@galvatech2000.com)

## THE IMPORTANCE OF MAINTENANCE

A study conducted by the AMPP (Association for Materials Protection and Performance) in 2021 estimated that the annual cost of corrosion in Canada at \$70.2 billions (CDN). This represents a hefty cost to the Canadian economy and highlights the importance of preventing corrosion in our infrastructures and industrial equipments.

Corrosion can have serious consequences on the safety, reliability and durability of our assets, as well as on the environment. It is therefore crucial to implement effective and preventive measures to minimize the impact of corrosion.

Galvatech and its unique galvanizing technology, is the solution for your needs and ensures the longevity protection of your infrastructures.

Investing in a maintenance solution, at the first signs of corrosion, or before, is essential and much less expensive in the long term.

We are delighted and convinced to be able to offer you a very beneficial solution for your assets.

### Let's Act Now !



# BRIDGES

Rust-Anode technology is one of the homologated products by the Ministry of Transportations of Quebec and Ontario.

## Refurbishment of a steel-wood bridges



Jacques-Cartier bridge, Montréal, Canada

Bromptonville, Canada



# BRIDGES

Rust-Anode technology is one of the homologated products by the Ministry of Transportations of Quebec and Ontario.

New structures with Rust-Anode Primer technology

Petite-Rivière St-François, Canada



Snowmobiles bridge Amqui, Canada



## PEDESTRIAN WALKWAYS

Québec-Lévis ferry, Canada



Sept-Îles harbor, Canada



# ST-WENCESLAS BRIDGE (1968-2022)

Ministry of Transportations of Québec (MTQ)

Re-galvanization: 2017

Length: 752 ft

Total footage: 102 000 ft<sup>2</sup>

Presence of zinc oxide, rust, and corrosion

Preparation: SSPC-SP16 Brush-off Blast Cleaning Non-Ferrous Metals

Re-Galvanized on-site with the Rust-Anode technology



project **VIDEO**

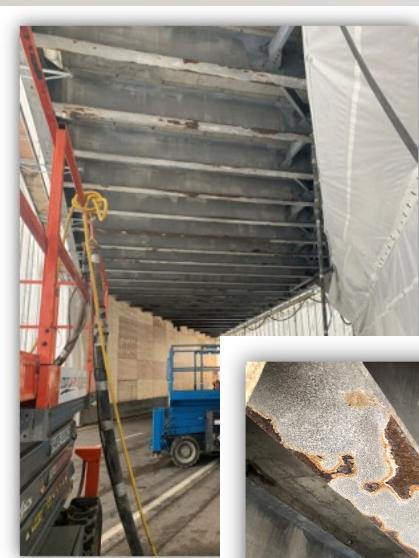


# ST-ADÈLE BRIDGE, QC, CANADA

Quebec DOT

Metallized Bridge

Surfaces sealed with Rust-Anode Primer technology



# WELLINGTON RAILWAY BRIDGE, MONTRÉAL, CANADA



# White Lake Narrows Bridge, WAWA Region, CANADA

Ontario DOT



# SEPT-ÎLES PORT BRIDGE, QC, CANADA



# SUSTENTION STEEL CABLES (SUPPORTS)

Pierre-Laporte bridge, Canada  
Quebec DOT



# RETAINING WALLS

## Sheet piles

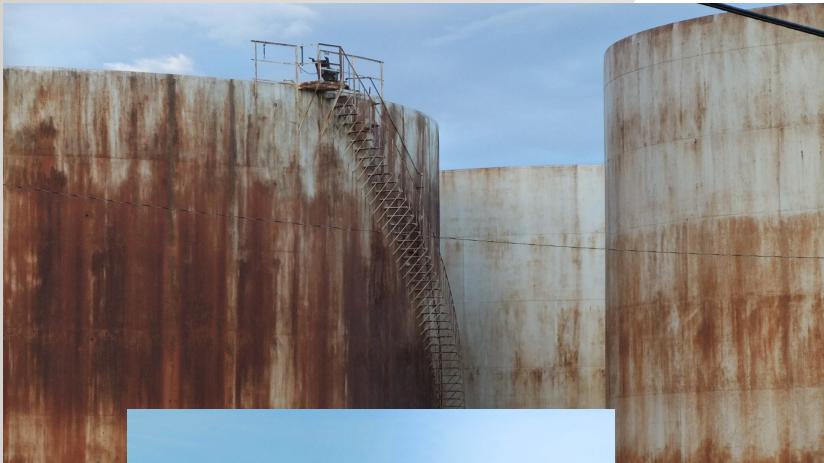


## Retaining walls, Ontario, Canada



# TANKS

Project realized in 2010, Sept-Îles, Canada      Picture taken in 2022



# DAMS AND EQUIPMENTS

(Harness of rivers)

Centre d'expertise  
hydraulique

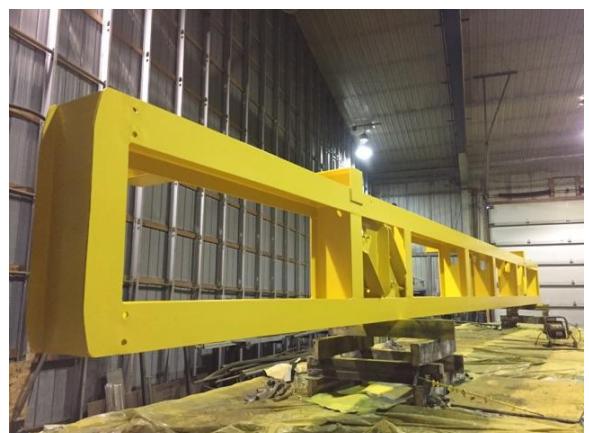
Québec



Dams structures



Hydro-Québec, Control post structure, Great North



Portage des Roches dam, Ville de Saguenay, Canada

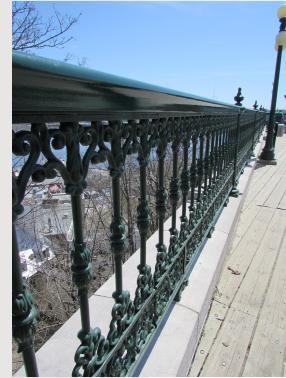


# HISTORICAL STRUCTURES

Maisonneuve Market  
Montreal, Canada



Park Canada, railing



## PARKING CANOPIES

International Airport Jean-Lesage, Quebec city, Canada



## PERGOLA

Frédérick-Back Park, Montreal, Canada, architecture award



# STRUCTURE

## Terrebonne Police Headquarters, Canada



# CULVERTS

Quebec DOT



## MINE STRUCTURES



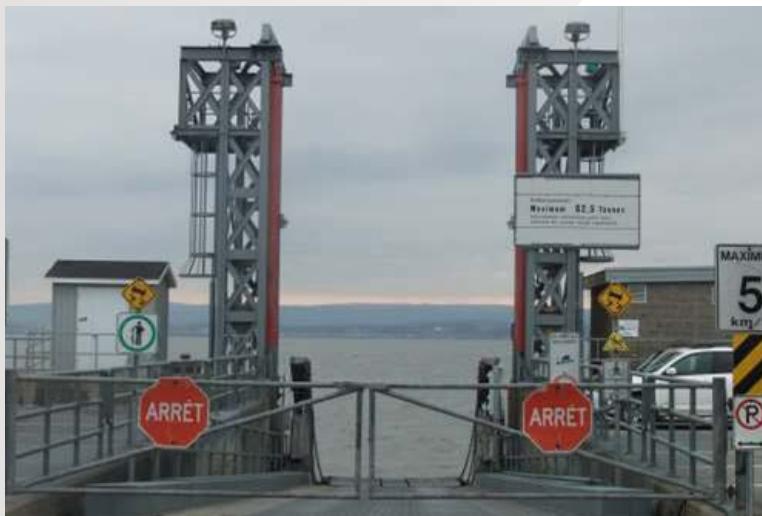
  
ArcelorMittal



# COASTAL STRUCTURES

## Boarding docks, Iles-aux-Grues, Canada

Société des  
**Traversiers**  
du Québec



## Railway boarding docks, Baie-Comeau, Canada

 **SOPOR**  
Société du port ferroviaire de  
Baie-Comeau



# 10

## TECHNICAL ADVANTAGES AND BENEFITS

- One component compound
- Easy to apply with brush, roller, spray
- Minimal surface preparation, hand or power tools
- Comparable to hot-dip galvanizing or metallization under the same environmental conditions
- No additional coat needed
- Quick-drying
- Can be applied on non-friable rust
- Increases cathodic protection, by zinc re-charging
- Can go in immersion, even in salt water
- Moisture cured without dew point restriction



# INDEPENDENT LAB TESTS

TESTED BY E.P.R.I.

ELECTRIC POWER RESEARCH INSTITUTE (USA)

«In summary we may expect the benefits of an organic coating system but the performance of hot dip galvanizing if we adhere to good application and quality control procedures. »

| Test name  | Standard                                   | Rust-Anode Primer  | Hot-Dip Galvanized  |
|--|--|--|---|
|  |  | Evaluated by ASTM D610 (rust)<br>and ASTM D714 (blister)     |   |
| Cyclic corrosion<br>10, 000 hours  | ASTM D5894-10<br>(cold period)             | Rust: none - Classified 10<br>Blister: none - Classified 10  | Rust: none - Classified 10<br>Blister: none - Classified 10 |
| Immersion<br>Corrosion<br>(salt water)<br>Result at 90 days  | ASTM G44-99 (2013)<br>sodium chloride 3,5% | Rust: <0,03% - Classified 9<br>Blister: none - Classified 10 | Rust: 33% - Classified 2<br>Blister: none - Classified 10   |
| Steel samples used for tests<br>Surface preparation: SSPC-SP10 / NACE 2 / SA 2,5<br>Products tested: Rust-Anode Primer versus Hot Dip Galvanization<br>Application of a single coat of Rust-Anode Primer without any paint coating |  |  |   |

| Test name                          | Standard  | Rust-Anode Primer   |
|------------------------------------|---|---------------------|
| Pull-off adhesion                  | ASTM D4541                                      | 1775 PSI, 12,24 Mpa |
| Organic zinc rich                  | ONGC-1,181/CAN/CGSB-1,181-92                    | Conform             |
| Abrasion                           | ASTM D4060-14 1000 cycles CS10,<br>weight 1000g | 116mg               |
| Adhesion                           | ASTM D3359                                      | 5B                  |
| Hardness                           | ASTM D3363                                      | 5H                  |
| Impact                             | ASTM D2794, 100 inch-pounds                     | No crack            |
| Flexibility - Folding - Plasticity | ASTM D522, Conical Mandrel 1/4", 180°           | Elongation: 15%     |
| Combustion toxicity                | DEF STAN 02-713                                 | Conform             |
| UV                                 | ASTM G154-12a                                   | Little effect       |
| Salt Spray                         | ASTM B117                                       | Excellent           |
| Corrosion resistance               | ISO 12944-6/7253                                | C5-VH               |

# PROTECTION SPECIALIST AGAINST CORROSION



## CONTACT

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## CONCLUSION

- **Rust-Anode is a unique galvanizing compound for new or old (galvanized or not) structures.**
- **Rust-Anode, a one coat galvanizing system.**
- **A trusted product, when recoating is required such as on bridges and structures in marine environments.**
- **Imagine the expected life of a such system in less corrosive environments.**
- **Traditional paint systems are offering a limited life protection.**

**Our experienced team offers unparalleled technical service, that supports you before, during and after your projects.**