



ARMINOX
Stainless



**RIBBED STAINLESS STEEL
REINFORCEMENT**

The Smart Choice

ARMINOX® ribbed stainless steel reinforcement reinforcements - are the most maintenance-free and cost-effective solution for the construction industry.



Steel is the backbone of many buildings. Therefore, quality and durability are essential. The ARMINOX® rod ensures the best and most durable solutions.

We know where and when it is worth applying stainless steel and the most suitable alloys. In short: we offer our expertise to select the right stainless steel for each application saving our customers money!

ARMINOX® stainless steel reinforcements used in concrete structures are the right way to prevent damage caused by corrosion by requiring the repair of concrete, making them much more economical.

With ARMINOX® stainless steel reinforcement reinforcement you are opting for an excellent solution. With the intelligent application of stainless steel, we ensure a positive and very economical result.

The pier that disappeared



Aço carbono

A breakthrough in Mexico has put ARMINOX® on the path to developing a very successful product



During a trip to Mexico in 1998, an ARMINOX® engineer noticed a remarkable fact. In Progreso there were two maritime structures.
A wharf, built and built by the international contractor, Christiani & Nielsen completed 1941.
Near this pier, in about 1970 another pier was built for larger ships. By 1998, the last wharf had collapsed due to corrosion.

The older pier remained erect and unmaintained.

The secret of the pier is invisible. It is hidden in the pier's columns, reinforced by stainless steel, a comprehensive independent report has revealed.

This report has become one of the key pillars of ARMINOX's® innovative

Development of stainless steel reinforcement products.



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Forever strong

Corrosion-free concrete structures are of enormous advantage for the area of finishes and intermittent submersion areas. The ARMINOX ® ribbed stainless steel reinforcing rod guarantees 100%. How should they be used? For those critical parts of structures subject to the greatest risk of corrosion. For example, where the pillars of a bridge come into contact with seawater; At the meeting of the pillars with the deck on the bridges; Where it is impossible to maintain or repair a structure. If the renovation is carried out with stainless reinforcements, future corrosion damage is avoided.



Smart Use of ARMINOX®

®



Price and quality go together, and it's no secret that stainless steel reinforcement is more expensive than regular steel. But in the long run, choosing ARMINOX® reinforcing steel is a much more cost-effective solution. The structures last longer – with direct economic benefit. Using individual qualities intelligently.

The philosophy is clear:

ARMINOX® reinforcing steel should be used intelligently, that's how it is that the most cost-effective solution is achieved.

ARMINOX® reinforcing ribbed steel is applied at the critical points in concrete structures, where the risk of corrosion is commonly recognized.

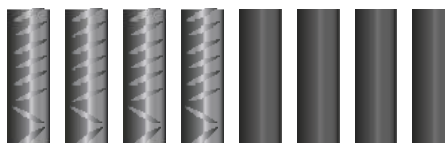
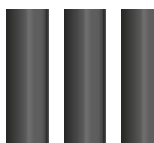
Fortunately, ARMINOX® stainless steel reinforcing steel can be bonded to ordinary reinforcing carbon steel without any problems and without any risk of galvanic corrosion.

In addition to the ARMINOX® stainless steel reinforcement, the addition of expensive corrosion protection chemicals. Similarly, in most cases, the protective coating can be reduced by 30 to 50%.

5



Protective coating


ARMINOX®
Stainless steel reinforcement


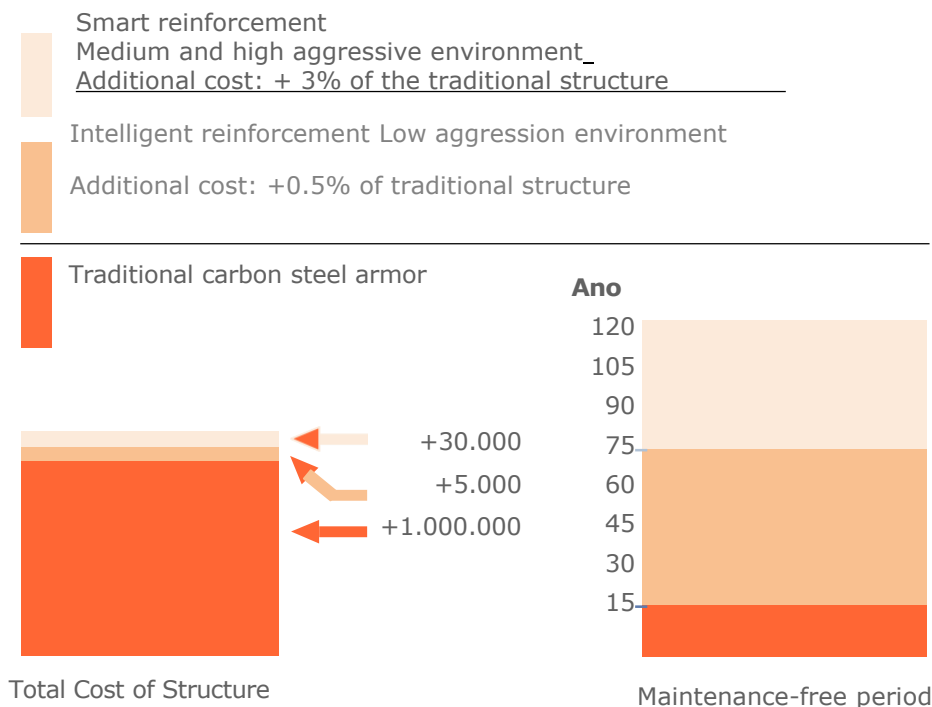
Black steel reinforcement



Sound economy

Saving through the clever use of Arminox® stainless steel reinforcement ribbed rod

Ribbed stainless steel armor combined with traditional carbon steel armor.



6

Viewed in isolation, the steel of Corrosion-free reinforcement from ARMINOX ® appears to be an efficient but relatively expensive solution to the corrosion problem. However, calculations made by leading international engineering firms show that the

intelligent application of reinforcing stainless steel is a highly cost-effective solution. The analysis shows that the additional construction investment is very low (0.5 - max. 3%) will be recapitalized in a few years.



More than just steel

Road and transit systems

- Bridges
- Tunnels
- Car parks
- Airport runways

Maritime environments

- Offshore industry
- Port facilities
- Pillars
- Dams

Renewal - Historic buildings

Industry

- Petrochemical companies
- Large industrial complexes
- ETAR's
- Nuclear power plants

High risk and high technology

- Instalações militares
- Laboratories (with particularly sensitive measuring equipment)
- Buildings with special design /extreme
- Refineries

ARMINOX® is one of the world's leading suppliers of stainless steel reinforcement reinforcements for use in the construction industry worldwide. Our strength lies not only in steel, but particularly in our great experience and know-how. With regard to development as with the clever application of stainless steel reinforcement reinforcements.

Internationally, ARMINOX® was the first to develop a greater awareness and understanding of stainless steel reinforcement. Our products and know-how are constantly being developed, either through cooperation with national and international research institutions, or through consulting and design engineers and steel manufacturers. Therefore, we know all about the importance of good and lasting partnerships with our customers, as well as the need to choose first-class materials.

ARMINOX® stainless steel is certified according to internationally recognized product standards and ARMINOX® stainless reinforcing ribbed steel can be used for new buildings or in rehabilitation in harsh environments, or where damage occurs to concrete structures.



Quality and Control



To ensure our high quality, our production is guaranteed and continuously monitored by various international supervisory bodies, such as UK Cares, MPA Germans, Kontrollrådet in Norway and Force Technology in Denmark. We also carry out continuous internal controls in our laboratory. All data and results are stored in our own database. ARMINOX is ISO 9001:2000 certified. The ARMINOX ribbed stainless steel rod for reinforcement reinforcement is certified according to:

Danish Standard DS 13080. Deutsche Zulassung Z-1.4-80.
British Standard BS 6744, BS 8666.
Kontrollrådet in Norge.

Certificates indicating chemical composition and mechanical properties accompany all ARMINOX® stainless steel supplies.

ARMINOX® products can be identified several years later by incorporating a special seal applied during production.

8



Transit



In connection with the extension of the motorway system in Copenhagen, Denmark, the bridges around the Motor

3 were built with steel stainless ARMINOX.® ARMINOX® guarantees that with stainless steel reinforcement

used in the structures of concrete bridges, they are maintenance-free for the Next 75 years - a long-term investment, saving the Dane several million Danish kroner in maintenance costs



www.cortartec.net

Bridge construction



Shenzhen Western
Corridor em Hong Kong

Shenzhen Western Corridor in Hong Kong is an international bridge project, which connects two nations and cultures - Hong Kong and China.

By using ARMINOX® stainless reinforcing steel for all critical bridge structures, the customer avoided all the inconveniences of repairs for the next 120 years – and therefore saving money.

10

Maritime Environment



Pier at Blackpool,
England

In Blackpool, on the west coast of England, the tide caused major problems in the front wall of the sea. Concrete structures corroded due to changing wind conditions and salt water.

For a new seawall in the coastal city, the stainless reinforcement ARMINOX,®

stainless steel was considered from the beginning. The smart way. Steel was used, where water normally hits the seawall in connection with alternating tides.

A wise solution, which is live maintenance for the next 75 years.

Buildings



Six-lane highway
between Abu Dhabi
and the mainland
United Arab Emirates

In 2003, the government in Abu Dhabi decided to build a third transport link between Abu Dhabi and the mainland of the United Arab Emirates.

Reputable architect Zaha Hadid was tasked with designing a document that, at the same time, could act as a six-lane highway through the 600-meter-wide canal.

It was essential that the design had an unmaintained life expectancy of a minimum of 100 years.

After in-depth investigations and life cycle cost calculations, it became clear that the only viable

solution was stainless steel reinforcement, used intelligently in the areas with a high risk of corrosion.

Arminox® Gulf Fzco has supplied 900 tonnes of Arminox® stainless reinforcing steel to the project in Abu Dhabi through the contractor Achirodon.

For the final design a requirement of 41,000 tonnes of traditional black reinforcement and 900 tonnes of Arminox® stainless reinforcing steel has been projected.

Arminox® Gulf Fzco successfully completed the agreed delivery in December 2006.

11





The Smart Choice

ARMINOX® stainless steel reinforcement - the best cost-effective and maintenance solution for concrete structures worldwide!



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