


## SURFACE TREATMENT

Royal MHB's excellent surface treatment is a product of generations of first hand experience protecting steel.
In extreme corrosive conditions Royal MHB applies thermal zinc spraying, the first major maintenance is required only after more than 25 years.

# THE BEST PROTECTION FOR THERMALLY BROKEN STEEL.

With a legacy spanning over 350 years, Royal MHB stands as one of Europe's enduring family-owned and managed enterprises, upholding quality and sustainability as fundamental pillars. Located next to the North Sea, many projects in the Netherlands are subject to extreme corrosive conditions. Royal MHB's excellent surface treatment is a product of generations of firsthand expertise in steel application and protection. This meticulous craftsmanship contributes to our products attaining a certified service life exceeding 100 years, as specified by ISO 15686-2.



Quali Steel Coat

## Thermal zinc spraying

To safeguard our products against the harshest corrosive conditions, Royal MHB employs a meticulous approach. We utilize thermal zinc spraying in conjunction with two layers of powder coating, creating a robust shield against the elements. Thermal zinc spraying represents an exceptional technique specifically engineered to protect steel structures in extreme environments, such as offshore drilling platforms and wind turbines at sea. This labor-intensive process demands the utmost precision, employing a combustion flame to effectively fuse a substantial layer of zinc onto the steel surface. The result is an enduring and resilient safeguard against corrosion. There is simply no better technique to protect our steel from corrosion and it is on a whole other level compared to the market standard of merely applying a zinc primer (powder coating a primer containing zinc).

## Qualisteelcoat "C5 very high" certification

Royal MHB is Qualisteelcoat certified for the highest category available: C5 very high corrosive conditions. This means that even if you place our products in extreme C5 corrosive conditions such as at sea or in a heavily polluted industrial environment, the first major maintenance is required only after more than 25 years.

In Europe, the most rigorous certification for the application of powder coating to steel is Qualisteelcoat. This distinguished label operates within a closed system, necessitating certification for both the coating itself (ensuring optimal gloss, color retention, and resistance to corrosion) and the coater responsible for its application. At Royal MHB, our powder coating facility, as well as our procedures for preparation, coating, quality control, and random sample testing, undergo rigorous periodic evaluations conducted by an independent German test institute. These stringent measures are essential for upholding our exclusive certification and reaffirming our commitment to exceptional quality standards.




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