

Information about Magnelis®

What is Magnelis?

Magnelis is a newly developed type of surface treatment, which provides stronger corrosion protection than with traditional hot-dip galvanizing. Magnelis is based on Zinc, but with Aluminum and Magnesium added.

Better for the environment

Magnelis surfaces are made with smaller layer thicknesses, and therefore have a lower impact on the environment than with the traditional hot-dip galvanizing.

Self-healing effect on untreated interfaces

Magnelis is used on boards before machining - there will therefore be cut surfaces on the finished elements, which initially appear untreated. After commissioning, in an outdoor environment, a self-healing chemical process will begin, which quietly closes the untreated surfaces.

In the initial phase (up to several weeks *), the untreated cut surface oxidizes and a layer of red rust forms. Then a zinc/magnesium based film pulls in over the cut surface. After more than 1 year *, the red rust will be replaced by a film of white rust, which lays a protective film that blocks corrosion.

* The speed of the process depends on the environment.

Film

A film about Magnelis, and the process described, can be seen here

<https://www.youtube.com/watch?v=R6CChDFByak>