

December 11, 2012

## Conformity Declaration

This document is meant to grant any customer that DIN rails code:

**DIN1055**

**DIN1060**

are in conformity with **EN 60715** standard and they are **Electrogalvanized according UNI-ISO 2081** as specified below.

"The galvanizing treatment must be carried out with the following processing steps. The steps must be chosen depending on the state of the product to be coated:

- 1. Pre chemical cleaning:** made by dipping or with a jet of hot alkaline solutions (80 °C).
- 2. Washing:** in running water connected to a mixed depuration system (physical-chemical-resin).  
Time variable depending on product and implant.
- 3. Pickling:** used to remove oxides such as scale and rust. Generally made at room temperature in solutions of hydrogen chloride diluted from 25% to 75%.
- 4. Washing:** see point 2.
- 5. Electrolytic cleaning:** made with hot alkaline solution with good conductivity. The current density employed is generally between 5 and 10 A/dm<sup>2</sup>. The gas evolved during the operation strengthens the chemical action of the bath. Anodic cleaning will be done to prevent hydrogen embrittlement of the steel to be treated.
- 6. Washing:** see point 2.
- 7. Neutralization:** the zinc anodes used have the role to carry the electrical current and to ensure the replacement of the ions of metal deposited on the cathode; those most frequently used are spheres. The zinc used has a minimum degree of purity of 99.97%.
- 8. Washing:** see point 2.
- 9. Electroplating with zinc:** the parts are galvanized by electrolysis in a bath chemical acid-based.
- 10. Washing:** see point 2.
- 11. Neutralization:** nitric acid 0.5%.
- 12. Passivation:** the color is: white bright (II), yellow (III), white iridescent (Chromiting) (IV), green (V), black (VI) and it is chosen according to the indication on the drawing or specifications submitted by the supplier. (Unless otherwise specified by the customer, the standard treatment is 7/12 II bright white). The microns of zinc ranging from 7-10 to 10-12.
- 13. Washing:** see point 2.
- 14. Drying:** in oven with forced circulation and temperature-controlled of 55-60 °C."

Sincerely,

Teknomega s.r.l.

**Giancarlo Bogogna**

Product Manager Panelboard Division

