to be continued

Finally, the X-Rail Guide range, in AISI 316 stainless steel, stands out for its excellent resistance to corrosion, and is effectively used for moving items associated with drinks and food on board trains, in addition to pull-out tables in economy class. Where these particular requirements do not apply, the Light Rail products are particularly recommended. These are telescopic rails that can carry limited loads and are easy to use. They come in steel and aluminum, and in a wide range of sizes. They are easy to install and have a good load capacity.

SIDEBAR RollonAlloy anti-corrosion treatment: 720 hours in saline mist

In recent years, Rollon has invested in researching surface treatments in order to guarantee maximum resistance of their components to corrosion. The RollonAlloy anti-corrosion treatment is a particularly effective formulation for counteracting humidity, exposure to bad weather, and high thermal fluctuations. Components treated reach the milestone of 720 hours in saline mist (test done according to the ISO 9227 standard). This result makes them particularly suitable for applications located under the floor of the train, such as extracting the battery housing, and fire-fighting or air-conditioning plants.

The various test phases

Inside a test chamber, the railway samples are covered in a (5%) sodium chloride solution with a pH of 6.5 (at a temperature of 35 °C) by a misting nozzle. The evaluation is done at preset time intervals The quality of the surface protection is measured based on the test time and the integrity conditions. Trivalent chromium plating, in conformity to the Rhos standards, can be applied to the surface of all types of Rollon linear rails, and acts as a real protective coating / barrier on metal parts, significantly reducing maintenance work and costs. Needs in the railway sector can vary greatly, depending on the type of application and the working environment: for this reason Rollon also offers other types of surface treatments, such as electrolytic galvanizing and chemical nickel plating, always in conformity to current international standards.

SIDEBAR Measuring Hardness value

Hardness is defined as a material's resistance to deformation, indentation or penetration. One of the ways it can be measured is with the Rockwell hardness test, which involves measuring the depth of penetration of an indenter under a large load. Measured on a "C" scale, the value for Rollon's bearings falls between 58 and 62 HRC.

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