Galvanized steel in architecture

Facades
Traditionally galvanizing is chosen because of the durable corrosion protection, but now we see more and more applications where architects choose galvanizing for aesthetic reasons. The crude metal surface creates very attractive contrasts with, for example, wood or glass.

The increasing interest in environmental issues that currently exist in the community, also speaks for hot-dip galvanizing for corrosion protection. Galvanized the steel obtained greatly increased lifespans, saving raw materials and energy. The fact that galvanized steel seldom or never needs maintenance also contributes to an environment friendly profile.

Stockholmsmässan International Fairs, Sweden

The Stockholmsmässan International Fairs in Älvsjö is one of the world’s leading organizers of meetings with 10,000 exhibitors and 1.5 million visitors annually. Alessandro Ripellino/Rosenbergs Architects’ latest addition to the premises is a new multifunctional space intended for conferences and large exhibitions - the AE-hall. The whole building is wrapped in a facade screen comprising approximately 1500 semi-perforated galvanized steel panels. They form a giant metallic basket with an embossed effect which is intensified by lighting fixtures that are integrated in the galvanized steel structure. The hall is connected to the existing complex by a gallery which has also been remediated, with new mirror-like ceilings and greenery walls.

The Brigade Museum, Karlstad, Sweden

The 3 mm steel plates were cut in diamond shape and then hot-dip galvanized. The plates were mounted to the wall by overlap screwing at the top. Murman Architects.
Henrik Jais-Nielsen Mats White Arkitekter AB has created a building, between the existing center and a new district by the sea, with a key position in the cityscape. The library building is simple in form, fully clothed with hot dip galvanized steel sheets it differs from all of its immediate surroundings, but associate with the port environment with boats and shacks. The building is located on an elevated granite plateau with an entrance ramp across its width.

The Troll building will be one of the first office buildings in Norway that is built as both passive and Energy Class A. The facade of the building consists of galvanized plates with length 4 500 mm and width around 300-400 mm. The thickness of the steel plate is 1,6 mm and the total volume of the facade is 3 300 m². Galvanized steel was chosen since it was most environmental friendly from a life cycle perspective in comparison to alternative materials. Biesel Architects AS, Eder.

Lomma library, Sweden

Residential building, Stockholm, Sweden

One of the advantages of constructing a facade of steel is that it is possible to integrate the various parts of the building and thus build "seamlessly". The roof merges into the facade, where the gutter is integrated in the design, and the facade reaches down to the ground, without plinth. "A reduced, uncluttered architecture" Annedal, Stockholm, Sweden. Architect: SAR/MSA Per Johansson, Joliark.
Nordic Galvanizers is the association for galvanizing companies in Nordic countries. We give information and advice about the hot dip galvanizing process, corrosion protection and related environmental issues. Our members are located around the Nordic countries, ready to help you with high technical knowledge, short delivery times as well as extensive environmental responsibility.

Hot Dip Galvanizing is a method of giving long term corrosion protection to steel by means of coating it with molten zinc. It has been around for more than 150 years and has been tried and tested in almost every situation. The benefits are compelling and wide ranging. It is a tough coating which lasts for many years, is environmentally sustainable and maintenance free.

Feel free to contact us for further information!

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