



Galvanized steel reinforcement in concrete products and structures can provide a range of benefits. In aggressive environments, the need for increased concrete cover can be avoided. When lighter thinner concrete designs are required, galvanized steel reinforcement will protect against carbonation when concrete cover has been reduced.

Hot dip galvanized steel reinforcement provides optimal protection and safety to façades, balconies and face view elements.

An Italian pre-cast concrete product manufacturer that has specialized for over 100 years in the production of small concrete elements has used hot dip galvanized steel reinforcement to renovate the white concrete support beams of these balconies of an elegant apartment in Genoa, Italy. The renovations were carried out between 2012 and 2014.

As they are openly exposed to the surrounding environment, balconies can deteriorate very easily. This is especially true in recent years due to the rise of more extreme weather events.

Galvanized steel reinforcement was chosen to ensure the durability of the support beams of the balconies, in particular to protect them from smog, rain, frost and humidity without the need for increased concrete cover.

The support beams are 128 cm long, 18 cm thick and 33 cm high at their highest point.

Genoa is a seaside city and the building is located about 1 km from the coast; therefore the galvanized steel reinforcement also gives additional protection from ingress of chlorides within the concrete.



Images: of Prefabbricati Torti di Pietro e Lino Torti snc