



Rosenbauer Viper Aerial Ladders

Fermont, Nebraska



Rosenbauer Aerial sells and distributes its fire truck aerial systems across the globe, and they have discovered hot-dip galvanized (HDG) steel is the most cost efficient coating solution for maintenance-free ladders in their industry. HDG was specified for the complete coverage created by the immersion process, and for the outstanding corrosion protection - a necessary characteristic, as the ladders will endure constant shoe abrasion and exposure to moist, corrosive environments when in use.

As the ladders were dipped into molten zinc, the zinc flowed in and around the entire piece, meaning the hollow steel is protected from the inside out. The metallurgical bond of zinc to steel created by the galvanizing process is approximately ten times greater than the adhesion of paint to the underlying steel, meaning the coating will not chip or flake in use. Rosenbauer guarantees the corrosion resistance on the inside and outside of their aerials for 25 years, and because of hot-dip galvanized steel, their aerial ladders will outlast any in the industry.

The manufacturer worked very closely with the galvanizer to engineer and design the ladder sections for hot-dip galvanizing. The ladder sections are internally vented to provide a uniform finish of superior quality to the end user. The unique design allows molten zinc to reach the inside of each side rail, hand rail, diagonal, k-brace, and rung. There was constant and continuous dialogue between the manufacturer and galvanizer to minimize costs, improve upon the already superior quality, and ultimately exceed the end users expectations. 🐸

Galvanizer

Valmont Coatings - Valley Galvanizing

Fabricator

Rosenbauer Aerial

original equipment manufacturing



American Galvanizers Association