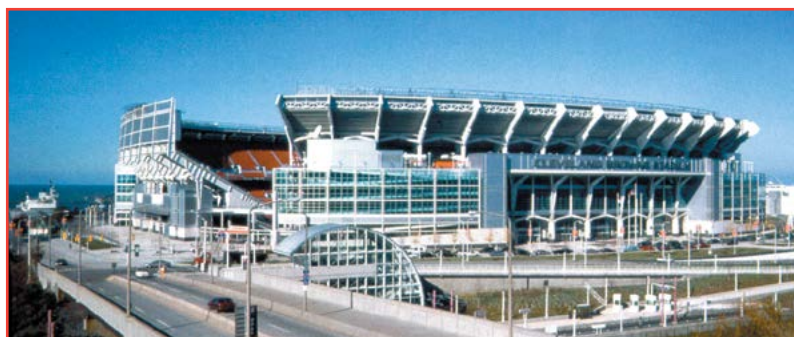


Cleveland Browns Football Stadium

Cleveland, OH; 1999

Recreation & Entertainment



"Life-cycle cost was a key consideration in choosing hot-dip galvanizing over painting."

Subject

The new Cleveland Browns Football Stadium in Cleveland, Ohio, uses hot-dip galvanizing as the main component of protecting the steel used in building it. More than 900 tons of galvanized steel were used.

Environment

The stadium is located next to Lake Erie and is subject to high winds, a wide temperate range, and moisture.

Details

Completed in August 1999, this new stadium was built with coating durability in mind, and coating durability was the primary reason for choosing hot-dip galvanizing. Most of the buildings exterior metals are galvanized. This includes all guardrails, handrails, ramp guards, cat walks and decorative wind screens. Light fixtures also are galvanized. Galvanizing the stadium was a successful joint effort among three galvanizers. One galvanizer completed the embedments, which needed to be completed on a short timeline. Another galvanizer did the lights, the score board, the outside rail and wind screens. A third galvanizer completed the handrails, which are the most visible item. Handrail measurements averaged 3.4 mils; two frames averaged 4.2 mils in zinc thickness. Life-cycle cost was a key consideration in choosing hot-dip galvanizing over painting. Conservative estimates indicate the stadium should not require any maintenance for at least 25-30 years.

