

Estimating the Atmospheric Corrosion Resistance of Structural Steels

— Truth or Fiction —

Pedro Albrecht, Professor Emeritus

176-6 Clubhouse Road Sunset Beach, NC 28468

email: pedroalb@eng.umd.edu

Abstract

The author traces in chronological order the proposed methods of estimating the corrosion resistance of the three types of structural steels: carbon steel with 0.02% Cu, Cr, Ni, Si and P. The author reviewed 35 relevant papers and research reports published from 1913 to 2005. This evaluation shows that some of the former authors of these publications were influenced by commercial interests, while others honestly sought to improve the methods of predicting the corrosion resistance of the structural steels, albeit with mixed success.