

PROJECT: I-84 BRIDGE OVERPASS

Scranton, Pennsylvania

OVERVIEW

In 1995, Fyfe Company materials were installed on all of the columns of the Interstate-84 bridge overpass in Scranton, Pennsylvania. The bridge is a 468-foot, four-span, continuous structure internally supported by three piers, each with two, five-foot diameter columns. The columns needed to be upgraded to provide an increase in seismic capacity as well as to provide long-term structural protection to mitigate concrete spalling.

Although the shear strength of the existing columns was sufficient to support the elastic shear forces, the columns could experience some inelastic damage due to seismic moments. As a result, some ductility was required at the plastic hinge locations at the top and bottom of each column for a total of five-foot, zero inches in both locations. The Tyfo® system was utilized along the full column height, allowing for a uniform aesthetic finish.

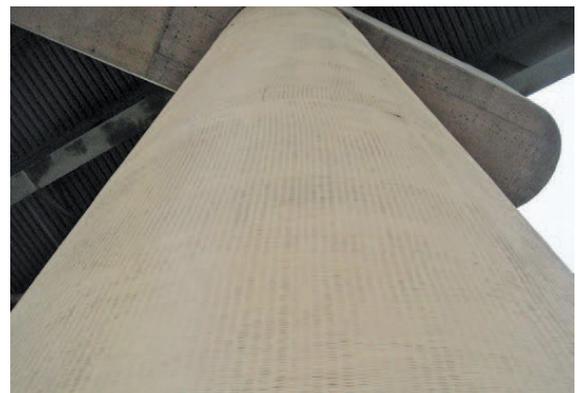
The pictures shown are of the Tyfo® system in place over 17 years after the original installation. There was no evidence of material delamination or other type of failure. The only slight to the installation was that graffiti had retaken its place over the finish coat.



Tyfo® system in place after 17 years



Tyfo® system in place after 17 years



Close up of Tyfo® system