ABSTRACT

This dissertation aims to cover every aspect of building designs which causes staining as well as dwelling into the possibilities of ascertaining the building’s stain resistance through careful and critical analysis of two-dimensional architectural drawings so that it can identify approximately almost all of the potential shortcomings in a building’s stain resistance. The problem due to staining of building façades is costly maintenance cycles or remediation post-construction and, in some cases, protracted and costly legal disputes.

The approach in alleviating the staining problem is by on site observation and diagnosis, which is through by the case studies approach. Once the causes and effects of the problem are understood, development of designs is proposed. Development of designs to reduce the staining problem will also take into consideration factors like maintainability, ease of fabrication and construction so that there is a greater possibility of the industry in adopting the developed designs & design approaches proposed in this dissertation.

The ultimate objective of this dissertation is the reduction of staining problems of salient buildings linking to design causes.