



Repair, Retrofit,
and Inspection of

Building Exterior Wall Systems

Editors:

Paul G. Johnson

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Foreword

This publication, *Repair, Retrofit and Inspection of Building Exterior Wall Systems*, contains papers presented at the ASTM symposium of the same name held on 21, 22 October, 2006 in Atlanta, GA. The symposium was presented by ASTM Committee E-6 on Performance of Buildings. The symposium co-chairmen were: Jon Boyd, Klein and Hoffman, Inc., Chicago, Illinois and Paul Johnson, Smith Group, Detroit, Michigan.

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Overview

The papers published in this special technical publication were presented during the ASTM symposium entitled *Repair, Retrofit and Inspection of Building Exterior Wall Systems*, held in October 2006 in Atlanta, GA, as part of a continuing series of symposia on building exterior walls system presented by the sponsoring subcommittee, ASTM E06.55 on Building Exterior Wall System.

The 2006 symposium continues the work began by E06.55 back in 1990 to bring the talents and diverse interests of the committee and the building industry together to exchange information and experience regarding the building envelope. It continues to be the goal of the committee to address the complex issues of design, construction, maintenance, evaluation and repair of these important systems of our buildings. With a very large stock of existing buildings we will be faced with the special problems and needs of these structures as they age, and as we ask their exterior wall systems to perform in new ways for us. This was the driving factor behind this symposium and many of the resulting papers.

The papers presented in this symposium addressed a diverse range of topics including survey and assessment techniques and sampling, establishing the integrity of cladding systems and components, case studies of system deterioration, and remediation, serviceability issues, seismic retrofit, energy savings attributable to façade upgrades, and re-cladding of existing buildings.

System types addressed include façades comprised of vintage masonry, limestone, precast concrete panels, thin stone, exposed cast-in-place concrete, aluminum framing, EIFS, and glass and metal walls.

These papers represent a broad range of experience and perspectives of the authors arising from varying backgrounds and experience, professions, and geographic locations.

It is our hope that this publication and others from this subcommittee will offer meaningful real-world insights into the complex and challenging problems associated with the design, construction and maintenance of building exterior wall systems, both old and new.

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