




Building Technology and Structural Engineering



B u i l d i n g E n v e l o p e S p e c i a l i s t s





Building and Technology Structural Engineering

Gale's Building Technology

and Structural Engineering Group

investigates, evaluates, and

designs repairs to all components

of the building envelope including

roofs, walls, windows/glazing,

waterproofing systems, and the

structural framework.

Committed to Extending the Service Life of Our Clients' Buildings –

Gale's building technologists and structural engineers are committed to helping our clients maintain watertight, energy-efficient, and safe facilities. We achieve this by accurately diagnosing our clients' building envelope problems through systematic investigation and providing cost-effective solutions that extend the service life of their buildings.



Gale evaluates and designs repairs to all roofing types including "sloped" (metal, slate, tile, shingle) and low slope or "flat" (built-up roofing, modified, single-ply, etc.). We assist clients in establishing preventative maintenance and management programs to avoid problems with roofs and take the guesswork out of annual budgeting.



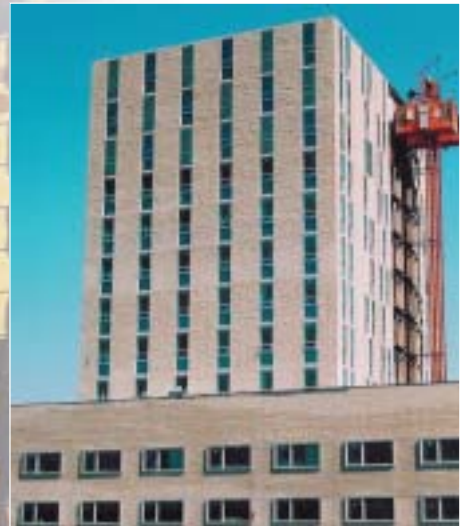
Capacity and Technical Advantage –

Gale offers its clients over 40 years of expertise and a staff of engineers and building technologists dedicated to solving building envelope problems. Our staff keeps abreast of the latest technologies by regularly participating in trade, professional, and standards organizations.



walls

Gale preserves all types of building exteriors including masonry (brick, brownstone, terra cotta, and limestone), concrete (cast-in-place and pre-cast), stone veneer, curtain walls, and exterior insulated finish systems (EIFS).

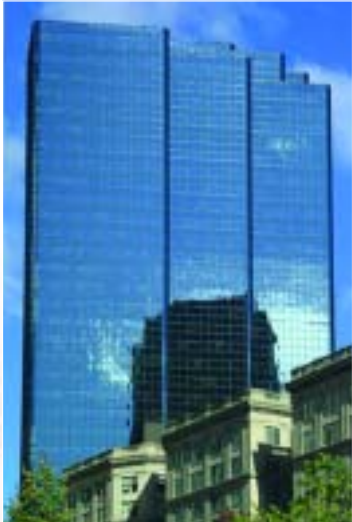


Serving a Wide Range of Clients –

Gale's clients range from private to public and include college and university, academic, commercial, health-care, historic, multi-residential, government, and airport facilities. We also provide specialized design assistance to architectural firms.

windows/glazing

Gale's building envelope specialists assist our clients with investigating, renovating, and repairing millions of square feet of windows (glazings, curtain walls, and skylights) and selecting the most appropriate operational systems (hung, fixed, casement, awning, hopper, and storefront).



Standardized Testing Methods to Diagnose and Solve Building Envelope Problems –

Utilizing state-of-the-art technology, Gale performs standardized industry testing to examine the building envelope. Investigative methods include non-destructive testing (water spray rack, infrared thermography, pachometer, crackometer, ritem tube, optical illuminated borescope, pressurized air chamber, etc.), destructive testing (core cuts in roofs and walls), and laboratory analysis (asbestos and lead, petrography, compression/tension, carbonization, chloride ion content, gravimetric analysis, etc.).

waterproofing

Gale assists building owners and managers in protecting their buildings from water and air infiltration by designing waterproofing systems (plaza-deck waterproofing, below-grade waterproofing, air barrier systems, terraces, and "green" roof coverings).



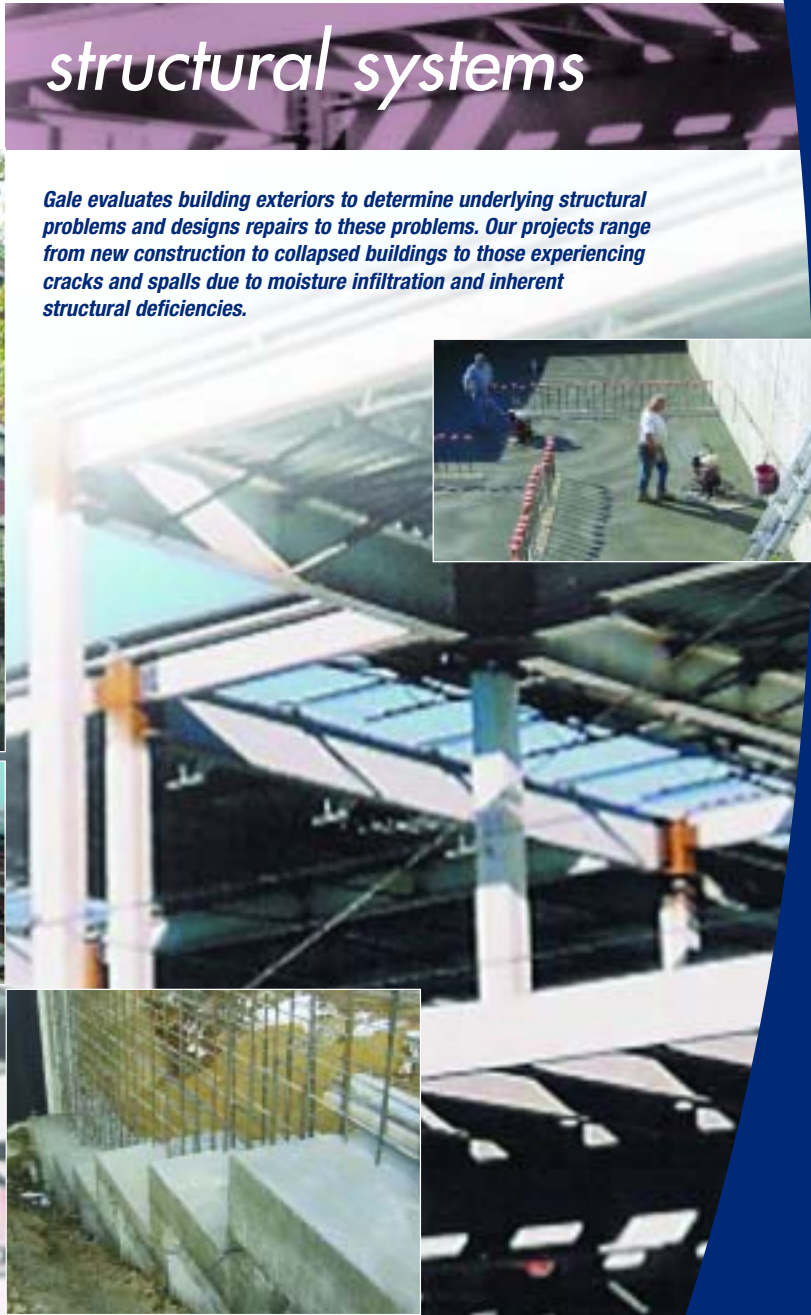
Thorough Evaluations Equal Long-Term Cost Savings –

Gale's in-depth evaluations promote efficient design specifications, thereby reducing the possibility of increased costs, via change orders, during construction. The time and expense to perform an initial, well-focused evaluation will save money in the long run and result in repairs that extend the service life of an important asset: your building.



structural systems

Gale evaluates building exteriors to determine underlying structural problems and designs repairs to these problems. Our projects range from new construction to collapsed buildings to those experiencing cracks and spalls due to moisture infiltration and inherent structural deficiencies.





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Building Envelope Specialists

