

FACADE + ENVELOPE

ENGINEERING



McLaren
ENGINEERING GROUP



McLaren Engineering Group – Headquarters
530 Chestnut Ridge Road, Woodcliff Lake, NJ 07677
Ph. 201.775.6000

49
STATES
LICENSED

20k+
PROJECTS
COMPLETED

45
YEARS OF
APPLIED INGENUITY

11
OFFICES
WORLDWIDE



About Us

McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.

Core Technical Divisions

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL
ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE
CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING



FACADE + ENVELOPE ENGINEERING

McLaren's Façade Engineering services focus on the building envelope - the largest, most important element in the technical performance and overall aesthetic of any structure.

Built on a foundation of construction engineering knowledge and structural understanding, our unique capabilities help engineer building enclosure projects of every size, shape, and complexity, from consultation and design, to final punch-list inspection.

Our dedicated, client-focused Façade Design team of engineers, architects, and specialists, develop innovative, project-specific solutions to helping improve constructability, maximize energy efficiency, improve security, and support the owner and architect's vision.

CONSULTATION

DELEGATED DESIGN +
SPECIALTY STRUCTURES

GLASS + GLAZING

METAL PANELS + CLADDING

INSPECTION, INVESTIGATION
+ REMEDIATION

www.mgmclaren.com

SPECIFICATION + DESIGN CRITERIA

THERMAL + CONDENSATION
PERFORMANCE REVIEW

WATERPROOFING DETAILING

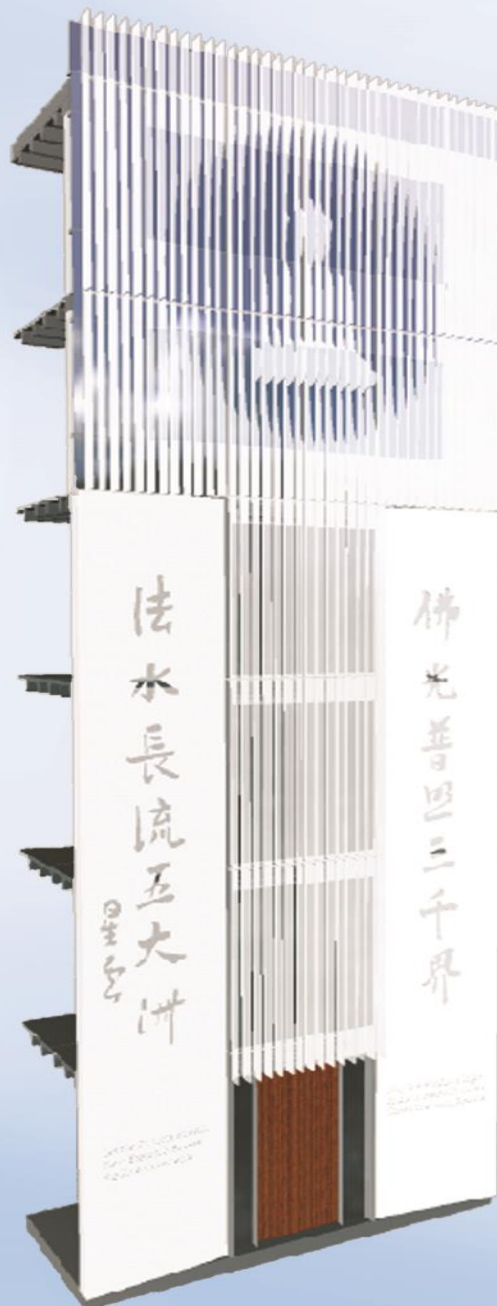
STRUCTURAL ENGINEERING

DESIGN SUPPORT: SCHEMATIC
DESIGN, DESIGN DEVELOPMENT, +
CONSTRUCTION DOCUMENTS

BID REVIEW + CONSTRUCTION
ADMINISTRATION SUPPORT

BUILDING ENVELOPE CONSULTATION

With diverse portfolio of building envelope projects and a knowledge of various material types including glass, stone, metal, and composite panels, McLaren's Building Envelope consultation services provide clients with accurate and creative engineering solutions. Our team of façade experts takes into consideration the complexities associated with building movements, installation requirements, thermal and condensation performance, and installation sequencing to support superior building envelope performance, constructability, and resiliency.



Buddha's Light Cultural Center
Rendering

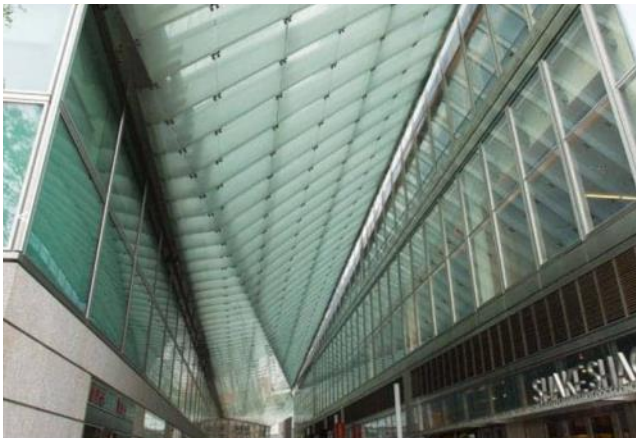
APPLIED INGENUITY



TWA TERMINAL HOTEL



HAYDEN PLANETARIUM



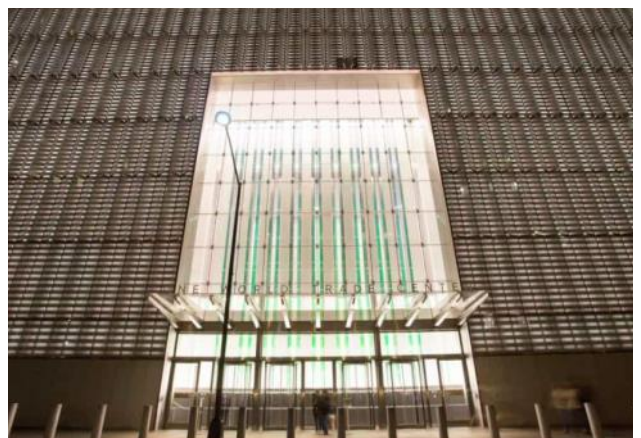
GOLDMAN SACHS CANOPY



LAGUARDIA AIRPORT CTB RENOVATION



239 TENTH AVENUE



1 WORLD TRADE CENTER

STRUCTURAL GLASS SYSTEM DESIGNS

GLASS + GLAZING DESIGN

CUSTOM CURTAINWALL DESIGN +
ENGINEERING

CUSTOM FEATURE WALL DESIGN +
ENGINEERING

METAL PANELS + CLADDING

BLAST ENGINEERING + DESIGN

DELEGATED DESIGN + SPECIALTY GLASS

The ability to solve complex challenges from all angles helps our team provide high-quality design and installation solutions. Through specialty analysis, state-of-the-art material research, design aesthetics, constructability, and client specifications our team has engineered curtain walls, feature walls, custom stairs, canopies, and specialty structures around the world.

Taking into account erection methods, durability, and maintenance, our facade engineers work collaboratively with our clients to provide innovative systems that last and meet all project goals.



PRINCETON UNIVERSITY CENTER FOR ADVANCED STUDY RUBENSTEIN COMMONS (RENDERING- STEVEN HOLL ARCHITECTS)

APPLIED INGENUITY



COLUMBIA BUSINESS SCHOOL, MANHATTANVILLE
CAMPUS-CUSTOM CURTAIN WALL



VIRGIN HOTEL
UNITIZED CURTAIN WALL



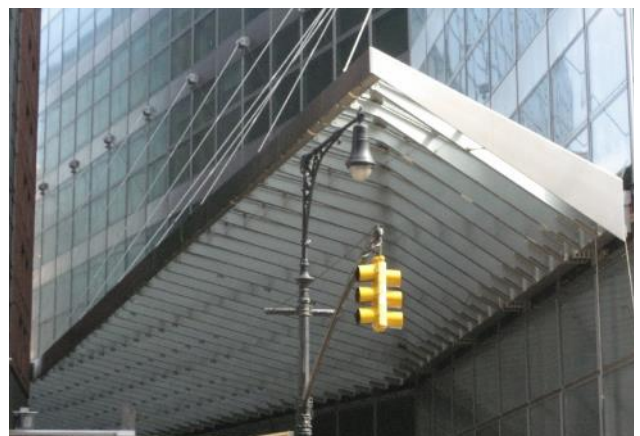
200 E 21ST STREET
GLASS FIBER REINFORCED CONCRETE FACADE



500 W 25TH STREET
STONE FACADE



AMERICAN WATER HEADQUARTERS
METAL PANEL FACADE



GOLDMAN SACHS CANOPY



McLaren
ENGINEERING GROUP

STRUCTURAL GLASS
GLASS RAILINGS + STAIRS
SKYLIGHTS
CURTAIN WALLS
WINDOW WALLS
CABLE WALLS
BLAST ANALYSIS
THERMAL + CONDENSATION
ANALYSIS

GLASS + GLAZING ENGINEERING

Our Glass and Glazing team has the capability to recognize and respond to design and installation challenges with a unique staff of expert architects and engineers. Having worked on hundreds of projects including curtain walls, canopies, and glass structures, we work collaboratively with clients to provide systems that last, deliver on all of the project's goals and take into account erection methods, durability and maintenance.

APPLIED INGENUITY



195 BROADWAY
STRUCTURAL GLASS WALL, NYC



BOSTON CHILDREN'S HOSPITAL
PEDESTRIAN SKYWAY



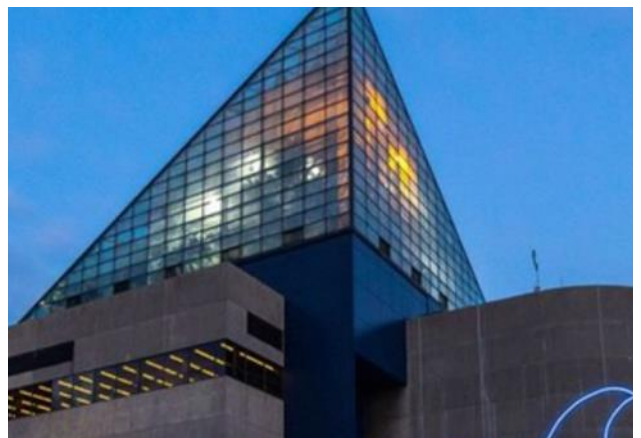
THE HOUSE AT CORNELL TECH
PASSIVE HOUSE GLAZING, NYC



560 LEXINGTON AVE
CURVED GLASS, NYC



101 SEAPORT
CABLE MULLION WALL, BOSTON



NATIONAL AQUARIUM BALTIMORE
RAINFOREST GLASS FACADE



McLaren
ENGINEERING GROUP

METAL PANELS

CUSTOM CLADDING

ACM + HONEYCOMB

ARCHITECTURAL METALS

MASONRY, STONE, PRECAST
PANEL + GFRC

PHENOLIC PANELS SYSTEMS

THERMAL + CONDENSATION
ANALYSIS

WATERPROOFING DETAILING

METAL PANELS + CLADDING

The structural design possibilities of metal are endless, and when done correctly, can result in a beautiful aesthetic which is highly durable and low maintenance. From light gage metal framing to intricate metal facades, McLaren's cladding specialists understand the capabilities and challenges of working with various metal mediums and can provide a variety of services to complement any project. Whether the project calls for flat systems or insulated walls, ACM or copper, we specialize in custom building envelope solutions

108 Chambers Street

APPLIED INGENUITY



NATIONAL PURPLE HEART HALL OF HONOR



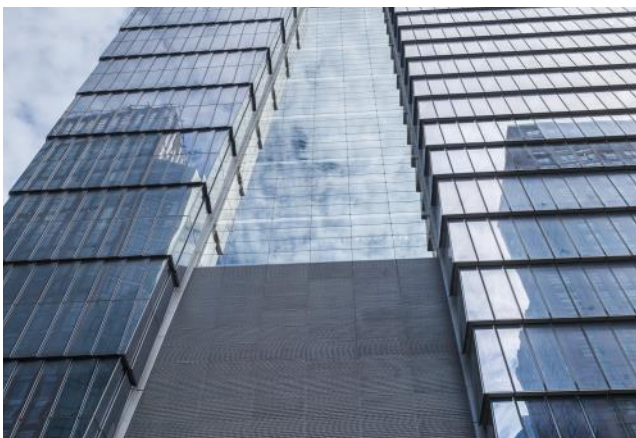
138 WILLOUGHBY STREET (RENDERING)



30 EAST 31ST STREET, NYC



15 HUDSON YARDS SKYTOP



10 HUDSON YARDS, NYC



1101 OCEAN AVE, ASBURY PARK

NYC BC 1704.10 SPECIAL
INSPECTIONS

LEAK INVESTIGATION

FORENSIC INVESTIGATION

ROOFING INVESTIGATION

RECOMMENDATIONS FOR
REMEDATION OF DEFICIENT
SYSTEMS

SPRAT CERTIFIED ROPE ACCESS
INSPECTION

DRONE INSPECTION

INSPECTION, INVESTIGATION + REMEDIATION

Taking into account design details and performance requirements for each individual project, McLaren's Facade Engineers perform detailed inspection, investigation and remediation services. With a unique knowledge of structural and construction engineering principles, as well as a talented in-house surveying group, our team can provide comprehensive support throughout the project life cycle. Additionally, McLaren is a Class I certified special inspection group for curtain wall and facade systems in New York City



SPRAT Certified Rope Inspection + Drone Inspection

APPLIED INGENUITY



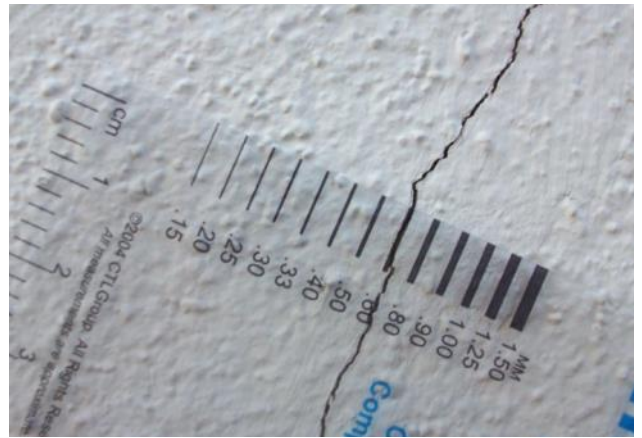
NATIONAL AQUARIUM ENVELOPE INSPECTION



111 VARICK SPECIAL INSPECTIONS



YONKERS FIREHOUSE FACADE INSPECTION



COLLEGE PARK COMMUNITY CENTER
FORENSIC FACADE INSPECTION



BROOKLYN STEEL
ENVELOPE CONDITION ASSESSMENT



HISTORIC JAMAICA STATION BUILDING EXTERIOR
CONDITION ASSESSMENT



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