



CONSULTATION

On All Aspects of the Building Envelope
 Window Function & Performance
 Glass, Breakage, Energy Aspects
 Curtainwalls & Entrances
 Sealants & Flashings
 Roofing & Terminations
 Masonry & Wall Construction

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WHO IS MM_{LLC}?

MM_{LLC} grew from Builders Architectural Products, a Deerfield, IL based contractor specializing in windows, curtainwalls and other engineered architectural glazed products.

Since 1960, Builders Architectural Products has furnished and installed glazed products in such well known Chicago-area structures as the Field Museum of Natural History, the Railway Exchange Building, the Civic Opera House, Heritage at Millennium Park, Tides at Lakeshore East, 600 North Michigan, The Columbian, Chicago Police Headquarters, and literally hundreds more.

In response to requests from customers, MM_{LLC} was created to bring our expertise in this specialized field directly for the benefit of clients.

The result is a powerful, yet highly economical offering that combines decades of hands-on construction experience with the highest technical levels of reporting, opinions and remedial actions.

MM_{LLC} is led by Mark Meshulam, a 30+ year construction veteran with in-depth experience in the engineering, testing, production and installation of a wide variety of construction products, for buildings ranging from single family, to mid-size multi family, to commercial, institutional and very large high rises.

Mr. Meshulam oversaw all engineering and testing for Builders Architectural projects for decades, and personally spent at least one year in construction testing laboratories overseeing the installation and testing of mockups for numerous significant structures.

Mr. Meshulam performs training and produces training documentation for installers. He is a public speaker, having spoken at Argonne Labs, National Glass Association, NeoCon and other venues on topics of professional interest. He produces all content at www.ChicagoWindowExpert.com

FIELD SURVEYING

Determine the nature and extent of problems with existing construction such as windows, curtainwalls, wall systems and roofing systems

Forensic demolition to reveal concealed conditions
 Design appropriate repair / retrofit systems

TECHNICAL SUPPORT

Support the work of HVAC and Structural Engineers by determining specifications for existing or proposed systems, such as:

- Air infiltration
- Condensation resistance
- heat transmission
- Heat transmission
- Shading coefficient
- Sound transmission
- Structural attachments
- Moment of inertia of structural mullions

FIELD TESTING

AAMA 501.2 Quality Assurance and Diagnostic Water Leakage
 Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems

AAMA 502 Voluntary Specifications for Field Testing of
 Windows and Sliding Glass Doors

ASTM C 1153 Standard Practice for Locating Wet Insulation
 Using Infrared Imaging

ASTM C 1521 Standard Practice for Evaluating Adhesion of
 Installed Weatherproofing Sealant Joints

ASTM E 546 Standard Test Method for Frost/Dew Point of
 Sealed Insulating Glass Units

ASTM E 783 Standard Method for Field Measurement of Air
 Leakage Through Installed Exterior Windows and Doors

ASTM E 1105 Field Determination of Water Penetration of
 Installed Exterior Windows, Curtainwalls and Doors

RILEM Test Method 11.4- RILEM Tube

WHY USE MM_{LLC}?

Unlike architectural and engineering firms involved in this field, our experience comes from 50 years of hands-on performance of window and curtain wall work on a large range of building types, with many different manufacturers.

When a client comes to us with a difficult problem, some of the tools we use to analyze the problem are the actual tools of the trade, wielded by Chicago's finest tradespeople.

We are not afraid to disassemble and look inside.

We perform testing using industry standard methods, yet we are comfortable customizing and creating unique tests as circumstances dictate.

TEST & REPAIR METHODOLOGY

MM_{LLC} has developed a proprietary leak-tracking methodology. Because even simple leaks can easily have multiple points of entry, MM_{LLC} technicians employ methods that segregate causes and test each individually, so that the fullest possible body of knowledge results.

MM_{LLC}'s interactive test & repair methodology ensures that all points of water entry are identified, and remedial procedures targeted at each cause are implemented.

REPAIR PROCEDURES

Once the repair procedure has been developed, MM_{LLC} prepares clear documentation, allowing all stakeholders to easily grasp the problem as well as the solution.

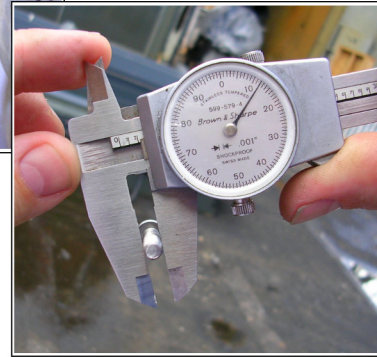
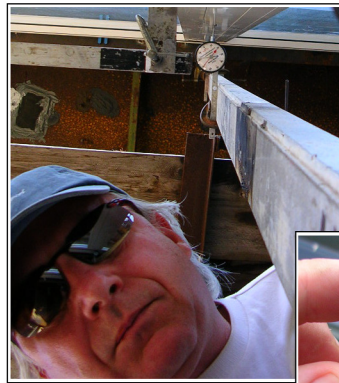
Armed with this documentation, building owners and managers can solicit pricing for a full repair program. MM_{LLC} will also, upon request, furnish a lump sum quotation for the remedial work.

PERFORMANCE OF REMEDIAL WORK

Development, implementation and verification of the work utilizing skilled workmen, tools, equipment and all materials.

Work might involve elimination of water penetration, reduction of air infiltration, modification or replacement of hardware, replacement of weatherstripping, or refinishing of metals.

Other work offered includes reglazing, addition of secondary sash such as storm windows or doors, or even replacement of window products.



COST/BENEFIT ANALYSIS

Identification of viable options

Cost estimates with comparison of options

Accompanying details, drawings and specifications as needed

EXPERT WITNESS & LEGAL SUPPORT

Forensic investigation
Expert reports
Expert testimony
Industry research

MM_{LLC} has proven exceptionally successful in the support of legal efforts on behalf of clients, regardless of whether the client is a plaintiff or defendant.

MM_{LLC} reporting and testimony rings true because we have the credibility of a "hands-on" professional coupled with clean, understandable, yet highly technical reporting.

INSURANCE CLAIMS

Forensic investigations
Expert opinions and reporting
Can render opinions regarding source of water leakage and causes of building envelope failures

MM_{LLC} participation can clarify and strengthen fair settlement of insurance claims, regardless of the client, whether claimant or insurer.

MM_{LLC} opinions and reporting carry weight due to our roots in actual performance of construction work and real-life experience in the building and construction environment.

HOW DO I START?

Call Mark Meshulam at 847-878-8922
or email:

Mark@ChicagoWindowExpert.com