



### Forensic Architecture & Building Science

MZA's knowledge of architecture, engineering, building materials, and building science are invaluable in "recreating the scene" in building failures, determining construction of older buildings, and diagnosing "sick" or contaminated buildings. Our analyses provide the basis for expert opinion in the analysis and building system failures.

Using State of the art video and computer animation technology, along with large-scale display graphics, MZA creates compelling presentations explaining how complex phenomena occur.

### Site Investigation

MZA performs site investigations using state of the art remote imaging, photographic, microscopic, and video capabilities to document building systems, assemblies and conditions.

### Materials Analysis

MZA conducts testing and microscopic investigations both in the field and in the lab. MZA's capabilities in materials evaluation and testing include items such as thermal insulation, sprayed-on fireproofing, coatings, encapsulants, drywall, joint compound, plaster, masonry products, and other materials.

### Investigative & Historical Research

MZA investigates the historical uses, construction and condition of facilities and sites to determine the building, infrastructure, and environmental changes over time. This documentation

provides the basis for expert opinion pertaining to changes in buildings and site conditions spanning years or even decades.

### Literature and Document Research

Our technical literature review capabilities are invaluable in determining the suitability of a product for a certain application or the historical "state of the art" of a product. This is especially useful in product liability or construction defect situations.

### Forensic Library Resources

MZA maintains a vast architectural and technical library used as a resource in forensic investigations. This library includes historic architectural and engineering handbooks, and materials handbooks, making it possible to duplicate the decision-making process of bygone design and construction professionals.

### Environmental Science & Industrial Hygiene

Building Site development or redevelopment projects, including former industrial sites, can be plagued by a number of environmental issues. MZA identifies previous uses which could have left a legacy of contamination that would have to be addressed as part of site rehabilitation.

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