



Architecture, Engineering,
and Construction



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Consultants. Experts. Innovators.

Rimkus is a worldwide leader in engineering and technical consulting. Operating from more than 100 offices around the globe, we provide services to corporations, insurance companies, law firms, and government agencies.

We are dedicated to the timely resolution of accidents, claims, and legal disputes. Providing technical solutions for the built environment, we proactively identify, mitigate, and help eliminate the complex risks inherent in the procurement, design, construction, and operation of facilities.

Our team's legacy of innovation traces back to 1983; our focus is on the future and finding solutions to clients' biggest challenges. We began in the forensics business, offering our clients an array of technical specialists, scientists, and engineers. Today, we continue with this forward-thinking approach as we broaden our capabilities by adding new experts and companies to our collaborative team.

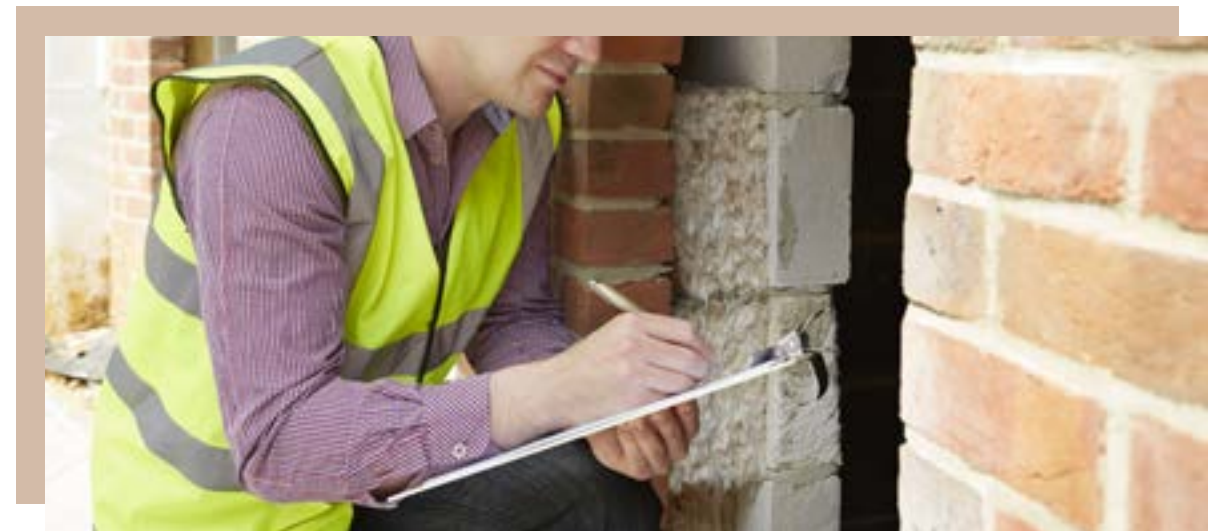


ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

Building Envelope Services

Performance for the Life Cycle of a Project

Maximizing the life cycle and value of a building requires maintaining performance and improving efficiency. Our depth of technical knowledge and comprehensive understanding of building sciences allow the Rimkus AEC Services team to proactively assist clients with the optimization of building envelopes and related systems.



Comprehensive Services, Dedicated Professionals

The Rimkus Architecture, Engineering, and Construction (AEC) Services group's mission is to proactively identify, mitigate, and help eliminate the complex risks inherent in the procurement, design, construction, and operation of facilities. We provide a comprehensive range of services designed to optimize the performance, maintenance, and repair of buildings, plants, facilities, and infrastructure. Whether it's a government facility, office building, multi-family housing complex, resort, hospital, or industrial plant, our consultants apply decades of experience to bring long-lasting success to projects.

Diverse Skills Across a Range of Critical Sectors

The Rimkus team of building science specialists provides guidance and technical proficiency for a range of sectors. Together, we offer multidisciplinary support to developers and asset owners, contractors, risk and safety managers, governments, and municipalities.

Our Building Envelope Services Include:

- Code Compliance Reviews
- Constructability Reviews
- Construction Administration
- Energy Studies
- Facade Inspections
- Hygrothermal Modeling
- LEED® Certification Compliance
- Materials Testing
- Mock-up Reviews and Testing
- Quality Assurance and Quality Control Inspections
- Remediation Design Services
- Reserve Studies
- Roof Consulting
- Structural Assessments
- Third-party Design Reviews
- Value Engineering Assessments

ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

Risk Assessment Services

Identifying and Minimizing Risk

Building owners and managers have a responsibility to provide a safe and hazard-free building to its occupants and the public. Through our risk assessment services, Rimkus assists clients in developing a comprehensive risk-avoidance strategy. We begin by identifying vulnerabilities that can lead to hazards, then create a plan to address mitigation of risks when they occur.

Our goal is to proactively identify risks and make recommendations to help protect building occupants and the public from safety issues such as slips, trips, and falls; fires; electrocutions; and exposure to hazardous materials. The Rimkus team can also provide guidance in the protection of property assets, including the physical structure of buildings, IT systems, utility systems, machinery, raw materials, and finished goods.



Our Risk Assessment Services Include:

- ADA Compliance Reviews
- Code Compliance Reviews
- Electrical System Evaluations
- Facade Inspections
- Fire Suppression System Reviews
- Flooring System Assessments
- HVAC System Evaluations
- Life Safety Assessments
- Lighting and Security Assessments
- Plumbing System Evaluations



Facade Inspections

Many cities have passed facade ordinances to identify unsafe conditions, such as loose components on the building facade that can put people and property at risk. The Rimkus AEC Services team can provide building inspections, along with recommendations and designs, for proactive maintenance and repair of facades.

Conducting Inspections

Typically, inspections are required for buildings taller than five stories, with inspection frequencies ranging from two to five years, depending on the city. Inspections by our architects and engineers are hands-on examinations conducted from swing stages, scaffolding, or rope access covering the entire height of each elevation.

Our experienced professionals are well-versed in facade condition assessments, having the knowledge needed to specify repair details and oversee completion of repairs on behalf of property owners.

Rimkus experts can use the latest drone technology to provide our clients with unique visual and digital information with greater efficiency. This technology safely provides access to previously hard-to-reach places, such as roofs and high elevations, without the need for expensive access equipment.

ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

Due-Diligence Assessment Services

Critical Details for Informed Decisions

Rimkus assessment services provide owners with due-diligence information needed to make decisions when purchasing or leasing a property. We begin the process by researching, locating, and reviewing available as-built drawings to determine if potential shortcomings exist in the design or details of the property.

To identify issues that may require repair or replacement, Rimkus experts examine cladding, roofing, windows, exterior doors, and other areas susceptible to moisture intrusion. We inspect all mechanical, electrical, and plumbing systems to ensure that everything is functioning properly. Our consultants analyze structural systems, determining their adequacy and recommending any proposed modifications.

On-Site Reviews and Condition Reports

After a documentation review, the property is visually inspected using non-destructive testing such as thermal imaging cameras. Following the inspection, a physical condition report is generated with recommendations on future maintenance issues and a life cycle cost analysis.

Due-Diligence Assessment Services Can Include:

- ADA Compliance Reviews
- Building Envelope Evaluations
- Civil/Site Grading and Drainage Assessments
- Code Compliance Reviews
- Elevator and Escalator Evaluations
- Environmental Site Assessments
- Facade Assessments
- Mechanical, Electrical, and Plumbing Systems Evaluations
- Seismic Assessments
- Structural Systems Evaluations

ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

Design Services

Decades of Design Expertise

Maximizing the life cycle and value of a building requires maintaining performance and improving efficiency. Our depth of technical knowledge and comprehensive understanding of building sciences allow the Rimkus AEC Services team to proactively assist clients with the optimization of building envelopes and related systems.



Bringing New Life to Buildings

Focusing on restoration, alteration, and rehabilitation, we provide thorough building, equipment, and infrastructure design solutions. Our professional design services extend to new construction and components that are prone to construction defects, such as waterproofing, drainage, and building envelope systems.



AEC Design Services Include:

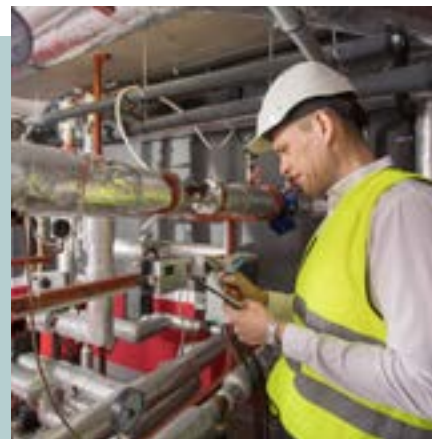
- Architectural
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Structural Engineering

Mechanical, Electrical, and Plumbing (MEP) Services

Our MEP Services team provides comprehensive mechanical, electrical, plumbing, and life safety consulting services to architects, building owners, developers, and property managers for commercial, hospitality, multi-residential, institutional, and industrial applications. Working with clients to understand their needs and expectations, we focus our designs on increasing a property's energy efficiency, operational usability, and occupant comfort and well-being.

MEP Services Include:

- Building Condition Assessments
- Energy Audits
- New Construction and Retrofit Designs
- Troubleshooting



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Pre-Construction Services

Quality Assurance Begins Prior to Construction

Decisions made at project onset can greatly impact overall results. Pre-construction errors may cause delays, cost overruns, and construction defects. By collaborating with the project team during the design and pre-construction phases of a project, Rimkus helps identify any potential construction risks to help eliminate costly rework and repairs.

Complete Evaluations and Recommendations

By assessing building envelopes, vapor barriers, insulation systems, and HVAC systems, our expert evaluations can address issues affecting performance and compatibility with the design. Using dynamic hygrothermal computer modeling, we test various wall assembly concepts and offer recommendations for enhancing sustainable performance over time. Our consultants evaluate waterproofing systems, grading and drainage systems, and geotechnical conditions at the site to achieve adequate surface and groundwater drainage and control.

Pre-Construction Services Include:

- Building Information Modeling (BIM)
- Code Reviews
- Constructability Reviews
- Cost Estimates
- Design Program Analyses
- Due-diligence and Acquisition Support
- Life Cycle Cost Analyses
- Pre-construction Condition Assessments of Existing Structures
- Scheduling Analyses
- Third-party Design Reviews
- Value Engineering and Cost Reduction Analyses

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Construction Services

Total Quality Management for the Construction Phase

Shifting focus from pre-construction quality assurance to ongoing quality control is essential for executing a successful project. Our goal is to provide an objective third-party review that assists the project team in completing the project per contracted plans and specifications. After the design is locked in place and contracts are awarded, we evaluate the adequacy of current quality control measures and advise accordingly.

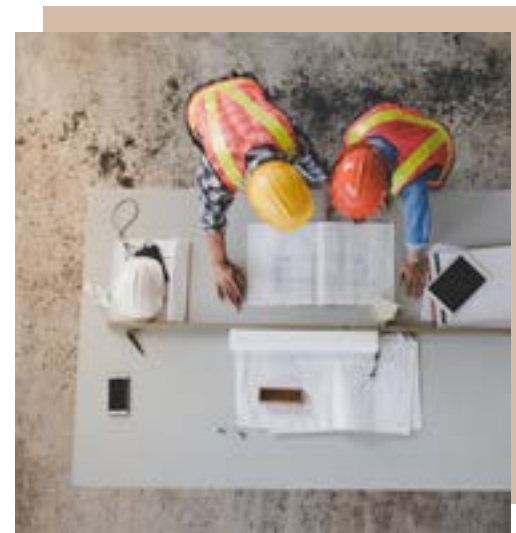


Implementing Quality Control Plans

During the construction phase, we examine shop drawings and product submittals for consistency with pre-construction reviews. To ensure that work is executed in a verifiable manner, we assist in the implementation of quality control plans. This includes the review, construction, and testing of mock-ups as part of an overall quality control strategy, along with field inspections of work in place.

Change Order Support

During construction, change orders can significantly impact cost and schedules. We review and analyze change orders to determine the effects of scope changes and delays on the overall cost and schedule and evaluate the percentage of work completed for project funding.



Construction Services Include:

- Construction Oversight
- In-place Work Inspections
- Mock-ups
- Project Problem Analysis and Resolution
- Quality Assurance and Quality Control Reviews
- Risk Assessments of Adjacent Structures
- Safety Assessments
- Shop Drawing and Submittal Reviews
- Third-party Design Reviews
- Threshold Inspections
- Vibration Monitoring



Project Closeout and Post-Construction Services

The success of a well-managed project may often be defined by final disposition and closeout. Inadequately managed project closeouts lead to unrealized expectations and potential claims. Because the project closeout and turnover phases require as much effort and attention to detail as previous phases, the Rimkus team stays involved throughout project completion.

Work-To-Complete List Development

Work-to-complete lists identify contracted work that has not been finished and must be completed before a project is punch listed. This helps a contractor ensure that all work is completed in accordance with contract specifications.

Punch List Management

A quality punch list process is important to the satisfactory completion of the project. It begins with development of a plan, then communicating it to project management, owners, and subcontractors, and finally securing approval of the plan by all stakeholders.

Facilities Testing and Training

Rimkus offers advisory services related to facilities testing, building staff training, start-up and commissioning, and long-term maintenance plans.



Project Closeout and Post-Construction Services Include:

- Building Commissioning
- Facilities Testing, Start-up, and Commissioning
- Facility Systems Transition Reports
- Lessons-learned Conferences
- Maintenance Plans
- Project Closeout Document Review
- Punch List Administration
- Substantial Completion Recommendations
- Training

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Maintenance and Operation Services

Achieving Life Cycle Expectations

Rimkus helps clients maximize the life of their facilities by addressing areas critical to successful, long-term maintenance. This includes providing a clear understanding of the capital expenditures necessary to achieve their goals.

We take a holistic approach to maintenance and operations based on each client's unique needs and requirements; our services focus on the issues that are vital to a facility's longevity.



Maintenance and Operations Services Include:

- Asset Management
- Capital Reserve Studies
- Condition Assessments
- Maintenance Plans
- Serviceability Studies
- Sustainability Studies

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Infrastructure Services

Monitoring and Maintaining Critical Infrastructure

The long-term maintenance of our national infrastructure is critical and expected to require an investment of trillions of dollars in the next decade. Rimkus infrastructure specialists provide property owners and government clients with expertise in evaluating, monitoring, maintaining, and rebuilding their vital infrastructure.



Infrastructure Services Include:

- Asset Management
- Capital Reserve Studies
- Condition Assessments
- Quality Assurance/Quality Control Inspections
- Serviceability Studies
- Sustainability Studies
- Vibration Monitoring

Operating from more than 100 offices, the Rimkus team of consulting experts assists clients with complex matters worldwide.

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