



RAUCH
SAFETY

INTRODUCTION

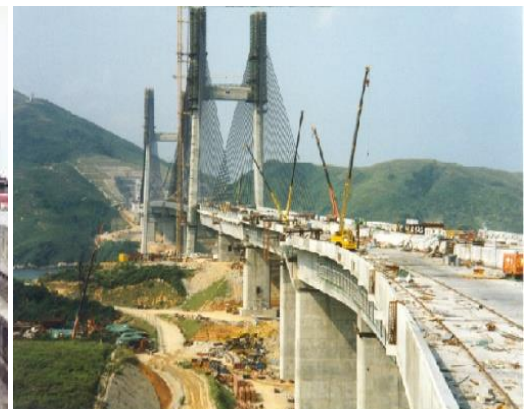
Rauch Safety is a global enterprise with headquarters in Las Vegas, Nevada USA that specializes in providing Advisory and Management services for Infrastructure Access, Fall Protection and Confined Space issues and challenges. Affiliates and strategic partners in USA, Europe, Middle East and Asia allow Rauch Safety to have a unique global view, presence and offering.

Trusted by Clients since 2001 and working on a referral basis only, Rauch has delivered over 1000 successful safe access projects for infrastructure interior and exterior maintenance on some of the most unique and challenging projects internationally.

The comprehensive list of projects currently underway and successfully executed by Rauch in the past covers various Industry sectors and categories including; Commercial and Hi Rise Properties, Hotel and Casino Properties, Infrastructure Bridges, Event Centres, Theme Parks, Museums, Shipyards, Shipping, Hydroelectric, Oil and Gas and special projects for Government departments. A representative list of projects executed by Rauch Safety around the globe is provided for your reference.

Rauch Safety is highly proficient in providing the following services to these industry sectors;

- Structural/ Façade Access and Maintenance Units (BMU)
- Infrastructure Designs Advisory, Management and Oversight for Safety and Access Integration
- Auditing Evaluation of Corporate fall protection programs and confined space programs
- Construction Administration
- Risk Analysis
- Standby Rescue
- Training
- Infrastructure Access Observation Program (IAOPT™)
- Structural/ Façade Access and Maintenance Project Retrofit



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BENEFITS TO CLIENT

Rauch Safety is well positioned to engage in a long-term mutually beneficial relationship with its Clients by being a valued partner that is able to provide experience and technological skills to address the following pertinent project Safety Design, Engineering and Construction issues;

Advice on Practical safe access of Building Systems interior and exterior maintenance

- **Technical Assessment of Projects** – Guiding the owner, architect/engineer and design team in identifying the balance between infrastructure design and long-term safe access for maintenance.
- **Project Complexity** - Guiding the owner, architect/engineer and design team in determining and identifying the most efficient and cost-effective access and equipment solutions and work flow process for the long-term consideration of the project, thus maximizing the return of investment (ROI) on the cost of the chosen equipment.



Advising on Sustainability Concerns

The important role of choosing the right access and related safety equipment and the long-term associated issues of having incorrect design, choosing the cheapest, wrong or too little equipment is not well understood by most Owners. Incorrect choices at the onset can have significant negative financial impact not only in terms of greatly increased maintenance costs but more importantly the loss of life when equipment fails or is misused.

This lack of understanding on the part of the Owner and or Architect/Engineer typically results in the choosing of the equipment being left to the contractor. The contractor sees access and related safety issues as line items in a budget which, in order to maximize their own profitability on the project choose the cheapest solution available. No consideration is given to the overall long-term impact to the project. Associated issues are ultimately left to the Owner to deal with after the construction process is completed. In many cases the issues are so great as to require system retrofits which can be as much as 10 times the original costs.

Sustainability can only be achieved if it is a planned part of the access and safety issues during the design phase of the project. Therefore, Rauch highly recommends that the access and associated safety equipment be handled directly by the Owner or the Owner's Architect/Engineer rather than the contractor, under the management and oversight of a competent entity such as Rauch.

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Identifying and choosing skilled professionals (Consultants, Equipment Providers, etc..)

- Tender preparation and subsequent submittal reviews and recommendations

Scheduling

- Proper planning and scheduling of building exterior or other infrastructure maintenance equipment provides the option for contractors to use this equipment during the construction phase thus allowing for cost effective and safe access to the infrastructure during construction.

Project Performance

- Management and oversight of all consultants and equipment providers from concept, to delivery, to commissioning and turnover training to ensure that access strategy expectations are delivered

Productivity - Operating Procedures Outline Sheet (OPOS) & Plan of Service

- Maximize worker productivity by ensuring workers thoroughly understand safety, the equipment and implement the best work flow process
- An OPOS - is an official document which instructs workers performing window cleaning and other Exterior Building or Infrastructure maintenance (EBIM) work in a number of ways; specifies allowable procedures, equipment limitations, safety protocols, working hazards, emergency procedures, etc. The document includes user qualifications and is often used as a training guide for access contractors.
- Detailed Emergency Action Plan/Plan of Service - International Codes require a written Plan of Service for all access and exterior maintenance operations. The document is to include a number of additional items including suspended equipment procedures, identification of drop zones and hazardous work areas, safety protocols, methods of public protection, rescue of workers, emergency procedures and etc.

This important document serves several purposes, but the primary goal is to improve workplace safety thereby reducing liability to the project owner. Development of the Plan of Service by a firm which is independent from any maintenance contractor or equipment manufacturer will assure that the owner receives an unbiased document to last for the life of the system.