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IRATA ROPE ACCESS SERVICES

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P.1 Company Overview

P.2 Conservation Aims

Historical building conservation by means of rope access is a specialist field that Ropetech has developed over a number of years. We offer a reliable thoroughly unique building conservation service. Our team of Rope Access trained experienced conservators and independent consultants have gained recognition for their thoughtful and sensitive approach to a variety of conservation problems.

P.3 Consultancy

We continuously seek advancement of current and new technologies and innovative ways to deliver our services. We welcome the possibility of forming/joining alliances on both a project-by-project basis and joint ventures.

P.4 Masonry Repair

P.5 Stone carving

Rope Tech International Ltd has developed a reputation for providing businesses and organisations with a comprehensive and fully compliant rope access service. We are a fully audited IRATA member company and all our personnel are qualified to the internationally recognised IRATA standard.

P.6 Conservation

P.7 Our Personnel

P.8 JOS Cleaning Services



P.9 Safety Statistics



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ROPE TECH INTERNATIONAL LTD

Policy overview



P.1 Company Overview

P.2 Conservation Aims

Statement of Intent

The company offers a specialist consultancy in the conservation of historic buildings, specialising in masonry structures. This is linked to a comprehensive contracting service embracing associated trade areas

P.3 Consultancy

The realisation has increased in recent years that traditional approach to building repair with excessive replacement of architectural elements is inadequate to the spirit of conservation.

P.4 Masonry Repair

P.5 Stone carving

In attempting to retain maximum original material and a sensible level of structural and visual integrity, techniques can be applied to hold back the mechanisms of deterioration and decay. Benefiting from more than twenty years experience, an undertaking is given that all disciplines offered are integrated within the ethical context of conservation.

P.6 Conservation

P.7 Our Personnel

Aims

P.8 JOS Cleaning Services



- To offer a specialist consultation and practical service
- To support the continued life of buildings and monuments
- To maintain high levels of workmanship within a strict management structure
- To contribute to the development of a foundation of continuing care

P.9 Safety Statistics





ROPE TECH INTERNATIONAL LTD

CONSULTANCY

P.1 Company Overview

Professional advice is available in diagnosing the pathology of historic buildings and monuments, based on a working familiarity with traditional materials and a knowledge of the design, construction and performance of historic structures.

P.2 Conservation Aims

The following methods of approach may lead to the development of feasibility studies, detailed working schedules and partial or total project management::

P.3 Consultancy

Performance of the structure may be assessed by investigation of its conditions, employing a holistic view of the building and its site.

P.4 Masonry Repair

Construction design methods can be considered alongside the materials of the building in the context of age, past use and changes that might have occurred.

P.5 Stone carving

Defect diagnosis and identification can betray the performance of the structure, from which remedial measures can be proposed.

P.6 Conservation

Survey and Inspection of historic building work needs to be accompanied by recording to high archaeological standards, such documentation often needing to include evidence of material types (analysis in the case of mortars), past repair, and archaeological data of details such as historic polychromy.

P.7 Our Personnel

Stone types: tooling characteristics, masons' marks, and evidence of moulding profiles

Previous repairs: such as the introduction of alien materials or structural alterations

Mortar types: with analysis available where necessary

Polychromy: and surface decoration

P.8 JOS Cleaning Services

The reference system of recording and observation may either be by photogrammetric survey or a measured drawing done by hand. All work is accompanied by photographic documentation.

P.9 Safety Statistics





ROPE TECH INTERNATIONAL LTD MASONRY REPAIR



Correct alignment
between
new and old masonry

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REPAIRS

Traditional masonry replacement is treated as part of the conservation process. Only stonework that is structurally unsound is replaced and a qualified engineering approach is implemented. This is based on a sound familiarity of masonry profiles and a knowledge of historic constructional methods. An appreciation of geology underwrites an awareness of the need for compatibility in materials.

STONE MASONRY SKILLS

- Setting out including preparation of full-scale drawings and templates, so that new masonry matches the surrounding original area
- Banker masonry: stones are worked by hand in the traditional manner to the exact profile of the template
- Fixing masonry: once the stones have been prepared on the banker, they are fixed into the building with appropriate engineering consideration, employing correct materials and process, such as grouting and pointing to ensure structural stability for the future.



Written reports and proposals can be provided before work commences, together with a comprehensive specification. All tradespersons are time-served and possess a high level of craft proficiency. They embody an awareness of conservation ethical thinking into the work and are fully conversant with health and safety requirements





ROPE TECH INTERNATIONAL LTD

STONE CARVING



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STONE CARVING

Fine stone carving worked freehand from original works, copy drawing specification or new designs can be faithfully provided. New commissions may be the result of dialogue with the client.

Our stone carvers offer:

New commissions: fine carving and sculpture carried out in stone to the client's design

Copy carving: faithful copies or interpreted restored copy carvings worked where original work is failing

Portraits: likenesses can be undertaken and are worked from study drawings

OTHER SERVICES

Survey, inspection and some holding work may be undertaken at all levels using specialist-trained personnel in practical conservation, including a team of conservators trained in high access techniques



A free copy carving of a 12th century figure



Hand drawing of a 12th century figure



ROPE TECH INTERNATIONAL LTD

CONSERVATION



Colour-matched mortars for discreet repair

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CONSERVATION

A comprehensive range of conservation techniques is offered and appropriate treatments are available from single carvings, to complex monuments, and entire facades.

During treatments the surface stonework is at all times closely scrutinised, seeking inherent structural weaknesses or significant archaeological evidence, such as polychromy or historic marks.

We know rapid response is a priority for our clients and endeavour to mobilise teams at short notice

SERVICES

- Cleaning: from nebular spray water washing and wet slurry systems on large areas of ashlar and running mouldings, to micro air-abrasive cleaning, laser techniques on fine carving and sculpture
- Desalination: removal of soluble salts with poultices
- Consolidation: a last resort used as an alternative to stone replacement, primarily applicable to localised areas of high value, rather than large expanses of masonry
- Dismantling and reassembly where individual stones are seriously delaminating, an option might be to dismantle separate fragments to be reassembled in a stable manner
- Colour-matched mortar repair: gaps, cracks, and missing areas may be filled or capped with matching mortar repairs, bound with lime or resins



A half cleaned 13th Century head



ROPE TECH INTERNATIONAL LTD

CONSERVATION PERSONNEL

HEAD OF DEPARTMENT

Mr. Joe Picalli PGDip (arch stone cons)

The department head is qualified conservator is currently completing research in historical mortars and the stones they bed. Joe has over ten years experience in rope access and is an IRATA level 3 rope access supervisor

CONSULTANT MASONRY SPECIALIST

Dr Michael O'Connor, BA (Hons), PhD, IHBC, FRSA.

Michael has worked in churches and cathedrals most of his working life, many year as the chief stone mason for Lincoln Cathedral makes him one of the foremost experts in the country. Michael has recently worked for us as a specialist at

- Canterbury Cathedral
- Chatham Historic Dockyard,
- St Barnabus – Nottingham

ROPE ACCESS SPECIALIST

Mr David Towse, Bsc (hons) IRATA 0618/3/A/T

IRATA authorised assessor, trainer and L3. David has been a rope access specialist for 18 years and is the current vice chairman of IRATA, held the post of Training committee chair and is a representative on the HSE sponsored advisory committee for work at height training

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ROPE TECH INTERNATIONAL LTD
CLEANING WORKS

HIGH LEVEL CLEANING

P.1 Company Overview

Rope Tech's high level abseil cleaning team offer important advantages in combination with conventional access methods such as scaffolding, mobile access platforms (MEWP) and cradles.

P.2 Conservation Aims

Cost effective in comparison to traditional access methods, rope access abseilers are able to access areas 'that other work systems cannot reach'

P.3 Consultancy

We believe that the client should pay for "the work to be done and not for the access to get the work done"! Our Team can install, maintain or repair without the need for expensive scaffolding or staging.

P.4 Masonry Repair

PATENTED JOS SYSTEM

P.5 Stone carving

RTI's own patented JOS cleaning process machine gives a new dimension in cleaning technology doing no harm to the environment because it is chemical free, low pressure with a gentle rotational vortex.

P.6 Conservation

P.7 Our Personnel

We can safely say that there is no other method of cleaning which is as gentle as the swirl action of the JOS system. Cleaning is carried out by a mixture of air, fine inert powder and very little water which is developed into a swirling vortex which will remove certain paints, dirt, carbon, scale, graffiti, fungi etc. from almost any building material without damaging the substrate either physical or chemically.

P.8 JOS Cleaning Services

P.9 Safety Statistics

For the safe removal of carbon pollutants from: Stone, brick, terracotta, ceramic tiles, glass, concrete & many other materials. Also oxidation/Sulphuration products from Bronze, Brass, Copper, Anodised Aluminium etc.





IRATA ACCIDENT RETURNS

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IRATA

The worlds leading authority on rope access is IRATA (Industrial Rope Access Trade Association). IRATA has been compiling accident figures for its member companies in industry since 1989.

IRATA companies work throughout the world.

‘There is ample evidence that the majority of accidents and incidents occur during normal site operations and not whilst working on ropes’ – M JAMES independent consultant and ex HSE inspector

Year	Hours on ropes (IRATA)	incident rates for all accidents per 100,000 man hours <u>on rope</u>
2000	887,206	2.7
2001	999,010	5.3
2002	1,225,930	0.98
2003	1,634,482	0.55
TOTALS Since 1989	10,566,285	2.58