

# Building Stone - Existing Structures



*Damage of sandstone due to salt action*

## Condition surveys

### Failure investigations

- roof tiles
- staining
- floor abrasion

### Inspection

- crack detection - fluorescence techniques

### Stone selection / Quarry evaluations

- matching for repairs
- colour uniformity
- grain consistency
- weathering characteristics

### Physical testing

### Durability testing

### Chemical analysis

### Petrography

- microscopy
- scanning electron microscopy & x-ray microanalysis

### Cleaning method evaluations

### Restoration technique trials

### Expert witness/litigation reports

The appearance and careful restoration of natural stone, particularly to historic building facades and floors, is of great significance and importance both aesthetically and structurally.

Sandberg offers expertise in inspection and investigation as well as advice on remediation techniques to restore natural stone both externally and internally on structures.

UKAS accredited testing is performed in-house to national and international standards.

In-service failures of stone are not uncommon due to inherent natural characteristics, poor production methods or the fact that the material is unsuitable for its intended application. Typical failures, whilst not necessarily structurally damaging, can cause unsightly appearance or lead to personal injury. Examples include differential porosity/absorption, staining, high wear/abrasion of flooring, reduction in slip resistance and step edge failures.

To discuss your needs please contact  
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