

## Consultancy Services

# Facade and Roofing Consultancy

Sandberg has extensive experience of all elements of the building envelope, and many of our staff are nationally recognised specialists in these fields. Our UKAS accredited laboratory services are extensively used for assessing the performance of facades and facade components. Our services include, but are not limited to:-

Discipline	Summary of available services
<b>Specification and Design</b>	Drafting of specification clauses; critical review of specifications; specialist specification advice (e.g. stone cladding); materials specification; test specification; review of design calculations; review of detail drawings; comment on construction detailing; advice on design; selection of materials; assessment of buildability; interfaces; durability assessment.
<b>Tender Review</b>	Assessment of bids; feasibility checks; supplier assessments; review of buildability.
<b>Supplier Audits</b>	Selection of contractors and suppliers; factory visits; experience audits; quality audits; independent quality checks; quarry assessments; stone supplier assessments.
<b>Construction and Testing</b>	Quality assurance and management; site inspectors witnessing off-site fabrication and site construction; specification for testing; independent witnessing of testing (laboratory and site); provision of UKAS accredited testing services (laboratory and site); certification of testing; physical, mechanical and durability testing; project and system specific designed test programmes; evaluation of relative moisture/thermal movement under cyclic regime; fatigue testing; watertightness; hard and soft body impact; dye testing; fixing tests to evaluate all types of gravity and restraint systems; development and undertaking of approval, design and production control testing of materials; scanning electron microscopy & x-ray microanalysis.
<b>Maintenance</b>	Asset surveys; planned preventative maintenance; drafting of maintenance manuals; review of maintenance manuals; survey for maintenance; review of repair methodology and remedial programme specification; design, implementation and witnessing of site trials; inspection of maintenance quality.
<b>Inspection and Survey</b>	Inspection of facades, cladding and roofing; condition surveys (historic and modern buildings); rope access (abseiling); condition monitoring; wall tie investigations; tiling systems; powder coatings; thermographic (infra-red) surveys; leak detection; materials sampling and testing; fire, explosion and bomb damage survey; cyclic fatigue assessments.
<b>Failure Investigation</b>	Leakage investigation; mechanical failure; glass and glazing failure; stone failure; fixing failure; corrosion and finishes; seals and sealants; expert witness services.
<b>Conservation</b>	Historic building surveys; investigation and analysis of wrought and cast iron, early steels, mortars, concretes, renders, screeds and natural stone; stone replacement and matching; cleaning techniques; restoration techniques.

To discuss your needs please contact

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