

BSG ENGINEERING LTD.

GEO-ENVIRONMENTAL AND BUILDING SCIENCES



CONSULTING ENGINEERS

Our experience, expertise and skills are reflected in the following key areas and services:

GEO-ENVIRONMENTAL ENGINEERING

BSG Engineering Ltd. offers geo-environmental engineering to evaluate and investigate geo-environmental conditions for new construction and existing structures.

- Data Base and Literature Search
- Surcharge Loading and Settlement Analysis
- Foundation Investigation Studies
- Frost Susceptibility Assessment
- Soil and Rock Mechanics
- Slope and Embankment Stability Studies
- Field Instrumentation
- Seepage and Dewatering Control Appraisal
- Erosion Protection Studies
- Phase I and II Environmental Site Assessment
- Hydrogeological Evaluation
- Environmental Audits
- Groundwater Evaluation
- Environmental Site Remediation
- Pavement Evaluation and Design
- Chemical Testing of Soils and Water
- Retaining Structures and Systems
- Soil and Groundwater Corrosion Assessment



FIELD TESTING AND CONSTRUCTION MONITORING SERVICES

BSG Engineering Ltd. offers field testing and construction monitoring of new or retrofit projects from the initial stage to completion. Qualified staff will monitor construction to ensure that material quality, workmanship and procedures are maintained.

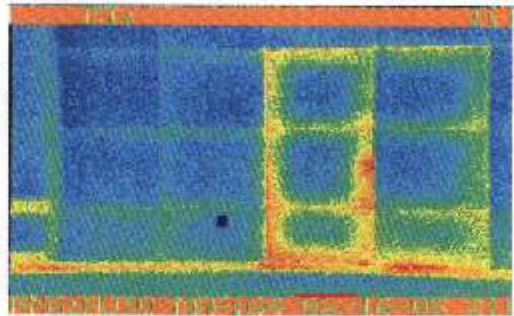
- Conventional Footing,
- Deep Foundations (Piling and Caissons)
- Excavation, Shoring Systems
- Field Testing
- Monitoring of Engineered Fill
- Reinforcing Steel
- Fireproofing/Firestopping
- Roofing and Waterproofing
- Exterior Cladding
- Windows and Doors
- Insulation, Air and Vapour Barriers
- Balconies Waterproofing
- Parking Garages and Traffic Toppings



BUILDING SCIENCES ENGINEERING

BSG Engineering Ltd. offers engineering and diagnostic services to evaluate building envelope performance, identify problem areas and provide cost effective solutions.

- Inspection and Analysis of Exterior Cladding
- Air and Vapour Barrier Review and Analysis
- Glazing System Review, Evaluations and Field Testing
- Roofing System Review, Evaluation and Design
- Thermographic Surveys
- Restoration and Rehabilitation
- Reserve Fund Studies
- Technical Audits
- Pre-Purchase Due Diligence Surveys
- Preparation of Design Drawings, Specifications and Tender Documents for Retrofit Projects
- Pre-Construction Review of Drawings and Specifications
- Parking Garage Investigations
- Balcony and Railings Investigations
- Preventative Maintenance Programs
- Window Cleaning Fall Arrest System Review and Design
- Water and Air Leakage Investigations and Testing
- Thermal Evaluations



ROOF ENGINEERING SERVICES

BSG Engineering Ltd. offers engineering and diagnostic services to evaluate roofing systems, identify problem areas and provide cost effective solutions.

- Roof systems Evaluation
- Thermographic Surveys
- Preparation of Design Drawings, Specifications and Tender Documents for Roof Replacement
- Pre-Construction Review of Drawings and Specifications
- Preventative Maintenance Programs
- Thermal Evaluations
- Material Evaluation
- Roof Failure Investigation
- Roofing Inspection



BSG Engineering Ltd. is an engineering firm offering a diverse range of professional services related to Geo-Environmental engineering and Building Sciences Technology.

Our personnel have been involved in the preparation and co-ordination of a wide range of projects and assignments, from the pre-purchase stage to completion of construction;

Principals

AL-Ganabi H., P. Eng., Principal of Geo-Environmental and structural rehabilitation, has many years of experience in Geo-Environmental Engineering, including geotechnical investigations, analysis and design of foundations, Environmental Audits and investigations, technical audits, reserve fund studies, building restoration, building performance evaluation, structural investigation and rehabilitation.

Wassim Hraiki, C.E.T., Principal of Building Sciences, has many years of experience in building envelope evaluation, thermographic survey, condition assessment, technical audits, reserve fund studies, building restoration, building performance evaluation, glazing system evaluation/testing, parking garages, roofing and waterproofing technology.

CLIENTS

- Condominium Corporations
- Government Agencies
- Educational and Institutional Building Owners
- Commercial and Retail Buildings Owners
- Co-operatives Housing
- Private Building Owners
- Financial Institutions
- Architects and Engineers

