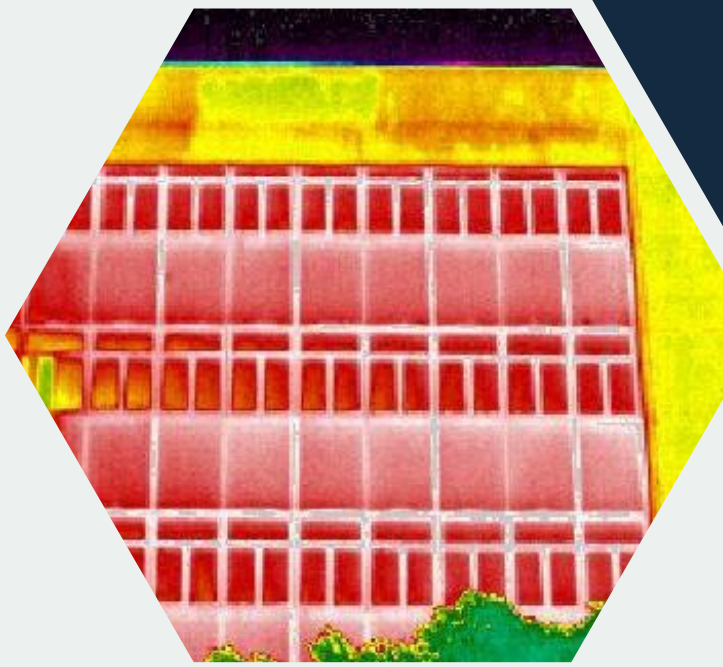
STANGERS

Infrared Thermography

Stangers has a great deal of experience in the use of infrared thermography. It has become a vital element in the extensive range of non-destructive testing techniques that we provide as part of our investigations services. Many varied situations have been investigated, including cold store insulation problems, locating under-floor heating pipes, and checking the presence and efficiency of cavity insulation.



Functions

- Heat
- Heat flow
- Temperature
- Thermal conductivity
- Emissivity
- Insulation
- Leakage
- Moisture
- Non-destructive testing

Uses

- Civil engineering
- Industrial plant
- Factories/warehouses
- Cold stores
- Public buildings
- Housing

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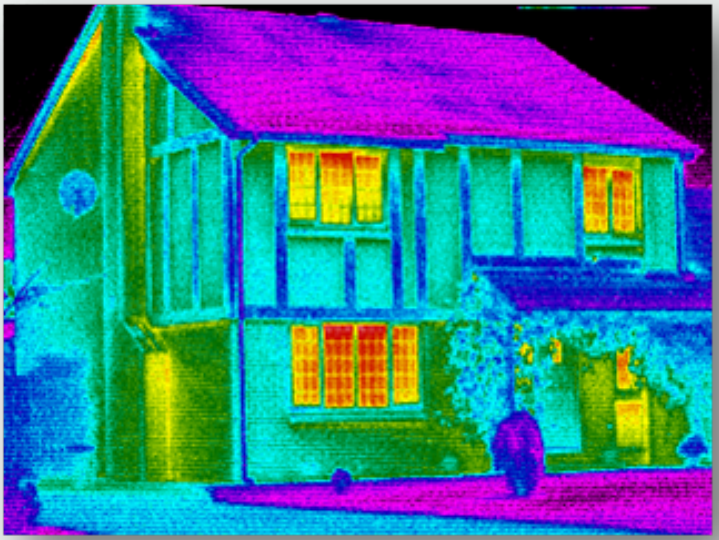
The capabilities of the advanced technology systems now available have extended our range of activities within this field. We have a considerable number of new applications, in particular within the fields of building and civil engineering. Notable examples have included the investigation of laminations in concrete structures, problems with claddings, e.g. GRP and tiling, and moisture penetration, which may be rapidly evaluated by thermography. The knowledge and practical experience of our senior operating personnel, together with the considerable multi-disciplinary expertise within the Stangers organisation, ensures that meaningful interpretation of results can be provided.

Conditions

- Pavement delaminations
- Corrosion spalling
- Construction faults
- Construction fabric deterioration
- Thermal insulation – floors/roofs
- Malfunctioning electrical equipment
- Pipe insulation failure
- Buried heat sources location/failure
- Machinery bearing wear
- Condensation
- Moisture penetration
- Thermal bridging

What we can do

- Video recording
- Photographic recording
- Record processing
- Fault location
- Fault quantification



Tel: (852) 2682 1203
Email: stanger@stanger.com.hk

Address: 705-706, 7/F,
Fuk Shing Commercial Building,
28 On Lok Mun Street, On Lok Tsuen,
Fanling, New Territories, Hong Kong.