

Fire Damage Investigation

CTLGroup has over 100 years' experience regarding concrete and fire forensics. Our engineers, architects, and material scientists are available anytime, anywhere. With a fully staffed physical, chemical, and microscopy laboratory, we are equipped to evaluate fire damage to concrete and masonry structures.

Fire exposure can:

- Decrease compressive strength of concrete
- Decrease modulus of elasticity of steel reinforcing
- Reduce fire resistivity
- Change the physical properties of concrete and aggregates
- Damage concrete cover through spalling and cracking

With 60,000 square feet of laboratory and global consulting reach, CTLGroup is uniquely qualified to provide solutions to complex construction related events.

Areas of Expertise:

- Buildings
- Industrial facilities & equipment
- Pipelines, pressure vessels & tanks
- Tunnels & subsurface construction
- Bridges
- Foundations & retaining structures

CTLGroup Solutions Include:

- On-site structural evaluation and forensics
- Structural monitoring and sustainability
- Failure investigation
- Non-destructive testing
- Structural health monitoring
- Structural engineering: repair & rehabilitation design
- Static and dynamic structural testing
- Mass concrete consulting
- Expert litigation and insurance support

CTLGroup Material Science Laboratories:

- Analytical chemical and materials testing
- Fatigue testing
- Mortar/Cement/Concrete testing
- Petrography/Microscopy (scanning electron microscopy)
- Materials analysis and characterization
- Performance assessment
- Failure and forensic analysis
- Service life prediction and modeling

