

Construction Technology Group

Packer Engineering's Construction Technology Group offers a full range of services involving engineering consulting related to residential, commercial, industrial, institutional and health care properties.

Packer Engineering's multidisciplinary team includes structural, architectural, building science, environmental health and safety, civil, mechanical, electrical, facility and material engineers and technologists.

Count on Packer Engineering to provide total solutions to the most difficult problems, anywhere in the world, 24 hours-a-day, 7 days-a-week. Contact us at 800-323-0114.



Moisture testing



Masonry water penetration



Palau bridge collapse



ASTM E1105 test for water penetration of windows

Areas of Expertise

- Structural analyses of buildings, bridges, parking garages, retaining walls, towers, cranes, signs, tanks, silos, and any other structure
- Building element analyses including slabs, foundations, exterior walls and fenestration, interior walls, roofs, floors, ceilings, and finishes
- Building material analyses including concrete, concrete masonry units (CMU), brick, stone, terra cotta, wood, metals, plastics, sealants and coatings
- Exterior facade investigations including masonry, exterior insulation and finish systems (EIFS), portland cement plaster (conventional stucco), dimension stone, precast concrete, glass fiber reinforced concrete (GFRC), glazing, curtain-wall, panelized systems, and other claddings
- Construction custom and practice
- Roofing investigations including low-slope roofs (built-up, modified bitumen, single-ply, sprayed polyurethane, protected membrane) and steep-slope roofs (asphalt shingle, tile, slate, wood shake, and metal roofs)
- Building envelope evaluations including hygrothermal analysis; condensation, moisture and mold analyses; air infiltration; and building thermal performance and energy evaluations
- Mechanical, electrical and plumbing (MEP) systems evaluations including HVAC systems
- Code evaluations (building, residential, property maintenance, energy, fire, mechanical, electrical, plumbing, and fuel gas codes)
- Design, testing, and code certification of new building products
- Site safety and OSHA compliance

Construction Technology Group

Our Services Include

Investigation and Failure Analysis of:

- Structures including settlement, cracking, and collapse of buildings and components
- Exterior walls, windows, curtainwall, and roofs
- Building performance including air and water leakage, condensation, mold, and attic ventilation
- Hygrothermal evaluations of building envelopes (heat, moisture, and vapor transport)
- Identification of deficiencies in design, installation, products, materials, and maintenance
- Damage assessments associated with wind, water and fire
- Flooding and drainage evaluations
- Mechanical and electrical failure
- Fire and explosions
- Construction accidents and site safety
- Slip, trip and falls

Repair and Rehabilitation

- Design of repairs for all types of building construction
- Construction documents, specifications and drawings
- Cost estimating and bidding
- Construction administration
- Field observation of repairs
- Evaluation of field samples, mock-ups, and field performance verification testing
- Water proofing and protection systems

Testing and Instrumentation

- Load tests of structures
- Nondestructive evaluations
- Façade, window, and roof testing
- Physical properties of building materials
- Laboratory analysis and testing of building components

Special Services

- Building codes and industry standards analyses
- Construction scheduling, delay claims, change order analyses, and construction cost evaluations
- Building product design, testing, and code certification consultation
- Construction design and document development consulting
- Construction safety audits
- OSHA compliance evaluations



Crane collapse



Power plant exhaust stack collapse



AAMA nozzle spray test

Contact us at **800-323-0114** or peinfo@packereng.com

For the location nearest you, visit our web site at www.packereng.com