



# TADJER-COHEN-EDELSON ASSOCIATES, INC.

STRUCTURAL ENGINEERS



## Profile

Through the teaming of Zivan Cohen and the late Dick Tadjer, Tadjer-Cohen Associates, Inc. was established in 1962 to provide consulting structural engineering services. The principals of the firm, Zivan Cohen, M.Sc., P.E., Varinder M. Abrol, M.Sc., P.E., Michael Tabassi, M.Sc., P.E., Ali Tahbaz, M.Sc., P.E., Sanjay Khanna, M.Sc., P.E., and Yehuda Nordman, M.Sc., P.E., S.E., are jointly registered in multiple states.

TCE's extensive experience with both design and construction totals over 38 billion dollars of in-place construction to date.

Our staff includes over 70 knowledgeable, experienced and innovative professionals. The firm has been extensively engaged in structural engineering design for a large variety of projects varying in magnitude and complexity, i.e., commercial, parking structures, retail, institutional, residential, governmental, multi-use projects, special structures, remodeling and renovation of existing buildings and analysis and recommendation for repairs of deficiencies in existing buildings (forensic engineering).

In the design of projects, we utilize the latest concepts and techniques in engineering sciences, such as computerized three-dimensional analysis, ultimate strength design in reinforced concrete, pre-stressing and post-tensioning of concrete, and LRFD design in steel. We utilize AutoCAD, REVIT STRUCTURAL, and Microstation CADD systems for drafting.

TCE is a unique structural engineering firm due to the fact that in addition to specializing in structural engineering, it also has a division which specializes and is a leader in the repair, restoration, waterproofing and forensic technologies field. During the design of new projects we utilize the expertise of our forensic engineers to incorporate recommendations for improving the longevity and durability of the structure.

We have been very conscious of the rising costs of projects and our philosophy is to provide extensive value engineering for cost analysis prior to deciding which structural system or repair technique is to be used. Our networked in-house computer facility enables us to quickly and efficiently analyze any type of structure. Our system provides us the capability of analyzing and pricing different structural solutions to achieve the most cost effective solutions. Different alternates are priced in the real market and, based on information assembled, the structural systems are selected.



**Structural Engineering Firm of the Year 2007**  
Associated Builders & Contractors  
(1994 & 2006)

## Services

### NEW DESIGN

For over 48 years TCE's portfolio has achieved significant growth and acclamation in the design of its projects. With rapid progression, TCE grew its client base largely through referrals, a testament to the company's integrity and diligence. We have provided services to some of the nation's most prestigious and historical landmarks such as the US Pentagon, US Mint, American Red Cross, International Monetary Fund, and the World Bank. Our client list encompasses many of the country's leading developers, architects, owners, management companies, government agencies, legal teams and contractors. We have provided services internationally in locations such as Chile, Honduras, Dominican Republic, Israel, Puerto Rico, and Vietnam. In 2008 TCE opened its first overseas venture in India and has provided services in Abu Dhabi, Dubai and Hyderabad.

### REPAIR & RESTORATION

In the late 1970's with the company strongly rooted and a prominent entity in the DC Metro area, TCE established its Repair & Restoration Division. Deteriorating and unstable structures were on the rise creating a mammoth need for modernization, preservation, replacement, and renovation to preserve history and to increase the lifespan of critical building components such as plazas, terraces, roofs, parking garages, facades, balconies and windows. Repair services may be required due to natural and failed circumstances such as failed waterproofing, corrosion, cracking brick and foundation settlement, termite damage, wood rot and deterioration, hurricanes and collapse.

### PARTIAL LIST OF SERVICES

- Engineering Consultation
- Structural Analysis & Design
- Seismic Analysis & Design/Retrofit
- Progressive Collapse Analysis & Design/Retrofit
- Blast Resistance Analysis
- Bridge Assessment
- Code Analysis
- CADD Drafting
- Design/Build Services
- Building Component Design & Analysis
- Expert Witness
- Testing and Inspection Services
- Forensic Evaluation
- Life-Cycle Costing
- Reserve Replacement Studies
- Construction Administration

- Quality Assurance
- Repair
- Restoration
- Renovation
- Load Capacity Analysis
- Due Diligence
- Condition Survey
- Structural Peer Review
- Feasibility Studies
- Inspection Services
- Historic Preservation
- Hurricane Investigation
- Building Envelope Analysis
- EIFS Examination
- Transition Studies



## Principals

- Zivan Cohen, P.E.
- Varinder Abrol, P.E.
- Michael Tabassi, P.E.
- Ali Tahbaz, P.E.
- Sanjay Khanna, P.E.
- Yehuda Nordman, P.E., S.E.

## ASSOCIATES

- J. Kelley White
- Dipak M. Shah, P.E.
- Xinzhang Li, P.E.
- Dipak M. Shah, P.E.
- Harsha Wijeweera
- Peter White, P.E.
- Jacob Steinbach, P.E.

## Sample Projects

- International Monetary Fund, DC
- United States Pentagon, VA
- Watergate @ Landmark, VA
- Union Station, DC
- L'Enfant Plaza, DC
- Washington Harbour, DC
- Trump Plaza, NY
- Trump Parc Tower, CT
- Chevy Chase Bank Headquarters, MD
- World Bank, DC
- Waterview, VA
- Warner Theater, DC
- 1101 New York Avenue, DC
- Harbor Beach Marriott Hotel, FL
- Frenchman's Reef Marriott Hotel, USVI
- DC Jewish Community Center, DC
- Foxhall Condominium, DC
- United States Mint, DC
- American Red Cross, DC

## Project Types

- Office Buildings
- Bridges
- Government
- Commercial Buildings
- Retail
- Mixed-Use
- Educational Facilities
- Museums
- Hotels
- Healthcare Facilities
- Shopping Centers
- Auditoriums & Theaters
- Barracks & Dormitories
- Correctional Facilities
- Religious Facilities
- Embassies & Chanceries
- Garages & Parking Decks
- Apartments & Condominiums
- Warehouses
- Dining Halls & Restaurants
- Postal Facilities
- Automobile Dealerships
- Laboratories
- Radio Stations
- Libraries
- Plazas
- Sports Domes
- Recreational Facilities
- Fire Stations
- Historic
- Casinos & Resorts
- Special Structures