

CURRICULUM VITAE

Douglas Silver

Expertise: Structural Engineering
Structural/seismic evaluation
Seismic strengthening retrofit design of buildings

Qualifications: Douglas Silver is a licensed structural engineer in the State of California. He graduated from UCLA with a Master's Degree in Engineering and has been a practicing engineer since 1973. His background in the area of design has included industrial and large commercial facilities. Since 1982, Mr. Silver has been involved in seismic risk analysis and damage mitigation studies for various types of buildings and facilities including hospitals, large industrial facilities, aerospace companies, and computer centers.

Experience With Firm: Structural/seismic evaluations of:
Mid- and High-rise buildings:
Century City Theme Towers (44 stories)
Holiday Inn Hotel (22 stories), Hollywood, CA
Fairmont Hotel Tower (29 stories), San Francisco, CA
Doheny West Condominiums (13 stories), West Hollywood, CA
180 Montgomery Street (25 stories), San Francisco, CA
Jamboree Center Towers (19 stories), Irvine, CA
Four Seasons Hotel (30 stories), Vancouver, Canada

Historic buildings:
Fairmont Hotel Original Section (1906), San Francisco, CA
Senator Hotel (1920), Sacramento, CA
Bank of Italy Building (1926), San Jose, CA
The Monadnock Building (1906), San Francisco, CA
The Ritchie Building (1922), San Francisco, CA

Regional and super-regional shopping centers:
8 MayCenter malls in Los Angeles and San Diego, CA
The Oaks Shopping Center, Thousand Oaks, CA
South Coast Plaza, Costa Mesa, CA
Glendale Galleria, Glendale, CA
Beverly Center, Beverly Hills, CA
Fashion Show Mall, Las Vegas, Nevada

Earthquake strengthening design of:
Office Depot, Costa Mesa, CA
Granada Village Shopping Center, Granada Hills, CA
Several industrial buildings in Fullerton, CA per local upgrade ordinance
Several commercial/industrial buildings in the San Fernando Valley area of Los Angeles per Division 91 Ordinance

Prior Experience: Senior Engineer, Dames & Moore, Los Angeles
Performed earthquake risk assessment studies for a variety of clients and facilities including major aerospace companies, computer facilities and operations centers, hospitals, and commercial and industrial buildings.
Notable projects include:

Post-earthquake survey (1987 Whittier earthquake) of Rockwell International Corporation Downey Plant (Space Transportation Systems Division)

Audit of Rockwell International Corporation southern California facilities to assess potential risk from earthquake

Seismic evaluation and preliminary design of strengthening of buildings at Hughes Aircraft Fullerton facility

Seismic strengthening design of 2 tilt-up office buildings at Aerojet ElectroSystems Company Azusa, CA

Seismic evaluation and earthquake strengthening design of 10-story reinforced concrete office building at 9595 Wilshire Boulevard, Beverly Hills, CA

Preliminary study for earthquake strengthening of TRW Building R-3, a 2-story reinforced concrete building in Redondo Beach, CA

Earthquake hazard and risk assessment of Cedars-Sinai Medical Center, Los Angeles, CA

Chief Engineer, NAM Engineering, Los Angeles

Designed mid-and highrise office and commercial buildings with emphasis on seismic systems. Provided project management related to job budgeting, scheduling and field coordination, training and supervision of staff engineers.

Senior Structural Engineer, Welton Becket and Associates

Design of major office and commercial buildings.

Design Engineer-Structural, Joy Manufacturing

Analyzed and designed industrial structures for unusual loading conditions.

Senior Engineer, C.F. Braun & Company

Analyzed and designed various industrial support structures and foundation systems for petrochemical and nuclear facilities.

*Post-earthquake
Investigations:*

1984 Morgan Hill
1987 Whittier
1989 Loma Prieta
1994 Northridge

Registration:

Structural Engineer, California (1980)
Civil Engineer, California (1974)

*Professional
Affiliations:*

Mr. Silver is a member of several professional organizations including the Structural Engineers Association of Southern California, the Earthquake Engineering Research Institute, the American Concrete Institute, and the American Institute of Steel Construction.

Publications:

"Concrete Wall Anchorage Forces in Industrial Buildings with Flexible Roof Diaphragms", Ninth World Conference on Earthquake Engineering, August 1988

"Structural and Seismic Engineering Reviews", Los Angeles Business Journal, February 28, 1994

"Problems with Tilt-up and Masonry Buildings in Earthquakes", Los Angeles Business Journal, January 16, 1995