

Eduardo Avelar, P.E., S.E. | Structural Engineer

9316 Lakeview Avenue, Building 21-C, PO Box 98887, Lakewood, WA 98496

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Professional Summary:

Mr. Avelar is a licensed Structural Engineer with more than 15 years of experience in the design, evaluation, and failure analysis of various types of structures. He has performed structural inspections including failures associated with long-term deterioration, settlement, wind, snow, hurricanes, earthquakes, tree impacts, and vehicular impacts. Additionally, he was an adjunct professor at Saint Martin's University. Areas of Expertise:

- Residential and commercial structural inspection and failure analysis and damage assessment.
- Roof inspection and failure analysis.
- Determination of required repair and rehabilitation procedures.
- Residential and commercial code and standard review.

Licenses and Certifications:

Structural Engineer, Washington, 49869

Structural Engineer, Oregon, 90344PE

Structural Engineer, California, S5763

Professional Engineer, California, C67639

Professional Engineer, Alaska, CE147477

Structural Engineer, Idaho, 17317

Professional Engineer, Texas, 129485

Professional Engineer, Colorado, PE.0052667

Structural Engineer, Utah, 9355839-2203

Project Experience:

Seattle, Washington

Failure of Exterior Wall Finish System on multi-unit residential structure

Inspection of the failure of an exterior cladding system on a multiple story residential structure to determine the cause and extent of damage.

Renton, Washington

Tree Impact on Residential Structure

Inspection and analysis of existing roof structure due to a tree fall impact. Designed and specified required repairs.

Boise, Idaho**Structural repair of roof structure damaged by snow loading**

Inspection of residential structure reported to have been damaged by significant snow loads. The cause of the damage and necessary repairs were determined.

Burbank, California**Earthquake Damage on Commercial Structure**

Inspection of commercial structure reported to have been damaged by the Ridgecrest Earthquake. The cause of damage and necessary repairs were determined.

Denver, Colorado**Hail and wind damage assessment of roof systems**

Inspection of various residential and commercial structures for hail and wind and flood damage to roof systems. Inspections included various types of roof systems, including rolled modified bitumen, TPO, EPDM, asphalt shingle, and concrete tile. The cause and duration of damage was determined, and the required repairs were specified.

Houston, Texas**Catastrophe Scene Investigation, Hurricane Harvey**

Inspection of various residential and commercial structures for wind and flood damages associated with Hurricane Irma. Inspections included damage to various types of roof systems, including rolled modified bitumen, TPO, asphalt shingle, and concrete tile. The cause and duration of damage was determined, and the required repairs were specified.

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Forensics Engineer, 2019- present
Envista Forensics, LLC, Structural Engineer, 2016 – 2019
Weyerhaeuser, Regional Engineer, 2014 – 2016
ASC Profiles, LLC, Field Engineer, 2011 – 2014
CYS Structural Engineers, Inc., Project Engineer, 2005 – 2011
Harris & Sloan Consulting Group, Inc., Project Engineer, 2003 – 2005
Anderson & Doig Structural Engineers, Inc., Design Engineer, 2001 - 2003

Specialized Education:

Post-earthquake Safety Evaluation of Buildings (ATC-20) and Safety Evaluation of Buildings After Wind-storms and Floods (ATC-45) Instructor and Evaluator

Education:

Bachelor of Science, Civil and Environmental Engineering, University of California, Berkeley, California, 2000

Affiliations:



American Society of Civil Engineers (ASCE) member
Structural Engineers Association of Washington Southwest (SEAW-Southwest) member

Courses Instructed/ Guest Lecturer:

Guest Lecturer - Timber Design