HALLIWELL

PABLO MARCHANT, P.E.

FORENSIC ENGINEER
CIVIL/STRUCTURAL ENGINEERING SERVICES
HOUSTON, TX

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SPECIALTIES

- Structural Investigations of Residential and Commercial Buildings
- Construction Defect Investigations
- Building Code Analysis
- Construction Means and Methods Analysis
- Cause and Origin Evaluations
- Building Envelope Failure Investigations
- Damage Assessments for Hail/Wind/Fire
- Analysis of Mechanical Roof Damage Inconsistent with Typical Roofing Activities
- Repair vs Replacement Analysis

BIOGRAPHY

Pablo is a Licensed Professional Engineer with experience in the field of structural engineering and forensic evaluations. He specializes in determining the cause, origin, and extent of structural failures on residential and commercial structures. His professional services have included structural damage assessments, moisture intrusion evaluations, building code analysis, construction means and methods analysis, construction defect investigations, and repair versus replacement analysis.

Pablo's experience has included evaluation of roof and building envelope systems and structural components, storm-related damage assessments, and impact damage assessments, as well as preparation of written findings and repair recommendations.

QUALIFICATIONS

Bachelor of Science – Petroleum Engineering, University of Houston

INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed Professional Engineer - TX, LA

PROFESSIONAL EXPERIENCE

- Halliwell, Forensic Engineer, Civil/Structural Engineering Services
- Donan Engineering, Forensic Engineer
- I-Impact Solutions, Engineer
- Myrex Industries, Structural Steel Detailer/Project Manager

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REPRESENTATIVE ASSIGNMENTS

Structural

Structural Tornado Damage Assessment | Houston, TX
Determined the extent of structural damage to various residential buildings due to a tornado, assessed safety concerns, and provided a conceptual scope of necessary repairs.

Structural Impact Damage Assessment | Edinburg, TX
Determined the extent of structural damage due to a tree impact and a gazebo displaced by a severe windstorm, assessed safety concerns, and provided a conceptual scope of necessary repairs.

Structural Wind Damage Assessment | Houston, TX
Determined the cause of structural damage to a canopy superstructure and whether it was related to wind by evaluating its design.

Structural Flood Damage Assessment | Ingram, TX
Determined the extent of structural damage due to a flood event and provided a scope of repairs.

Structural Fire Damage Assessment | Houston, TX
Determined the extent of structural damage to an apartment building due to a fire and provided a conceptual scope of necessary repairs.

Structural Snow Damage Assessment | Spokane, WA
Determined the cause of damage to the roof structure of a residential building and whether it was related to snow loading by researching peak snowfall and reviewing local building code requirements.

Structural Foundation Damage Assessment | Livingston, TX
Determined the cause of failure of a pier-and-beam foundation during repairs and whether it was related to inadequate shoring during leveling operations.

Structural Swimming Pool Damage Assessment | Sugar Land, TX
Determined the cause of damage to a swimming pool structure and whether it was related to buoyancy forces resulting from lowered water levels.

Structural Lightning Damage Assessment | Edinburg, TX
Determined the extent of structural damage caused by a lightning strike and provided a conceptual scope of necessary repairs.

Building Envelope

Storm Damage Assessment | Danville, IN
Determined the extent of hail- and/or wind-caused damage to the metal roof panels of a pole barn and provided an estimated age and repairability for any such damage found.

Moisture Intrusion Evaluation | Houston, TX
Determined the cause of water intrusion in a building interior and evaluated the low-slope roofing membrane to determine whether any water intrusion was attributable to a storm-created opening.