



Website: [www.msdenengineering.net](http://www.msdenengineering.net) – Mobile Number: 941.400.0935

### **Professional Summary**

Mark S. Densmore, P.E., S.I., DFE, is the MSD of MSD Engineering, LLC., an engineer-owned and operated expert witness and structural forensic engineering Florida firm, with primary services in Bradenton, Sarasota, and Lakewood Ranch. MSD specializes in forensic (civil/structural) property damage investigations and evaluations, structural design and analysis (including; structural repairs, alterations, and renovations), expert witness testimony, and special inspections.

- 25+ years of experience (20+ years in Florida) in the design and inspection of a variety of structural engineering projects, which includes 10+ years of forensic investigative experience and board-certification in forensic engineering.
- Authored 1800+ civil/structural forensic engineering reports and 500+ sinkhole and structural damage reports and inspected 1000+ residential and 100+ commercial structures.
- Performed forensic civil/structural evaluations for commercial and residential buildings related to areas of reported property damage/defects. Observed field conditions, evaluated structures, determined the cause, origin, and duration of the conditions. Wrote, signed and sealed engineering reports, and provided opinions as to the cause of the distress and recommendations for repair and/or replacement of structures.
- Produced signed and sealed structural repair, alteration, and renovation drawings for existing structures.
- Forensic engineering work related to evaluation of construction defects.
- Forensic engineering work related to structural damage evaluations, structural collapse and/or failure investigations, roofing system evaluations; cause, nature and extent of damage, wind and hail defects.
- Roofing system evaluations have been performed on numerous roofing types including: three-tab asphalt composition shingles; laminated composition shingles; clay and concrete tiles; built-up roofs; modified bitumen roofs, rolled roofing; thermoplastic polyolefin single-ply roofs (TPO); ethylene propylene diene terpolymer rubber roofs (EPDM); metal roofs; sprayed polyurethane foam roofs (SPF); and landscaped roofs.
- Forensic engineering work related to moisture source evaluations; cause, origin, and duration.
- Forensic engineering work related to termite damage, flooring damage, fire damage, and impact damage from trees, vehicles, etc.
- Forensic engineering work related to tornado and/or hurricane damage, wind v. flood damage evaluation, and retaining wall failures.

### **Education**

- Bachelor of Science (*w/ High Distinction*) in Civil Engineering, Worcester Polytechnic Institute (WPI), Worcester, MA (1994).



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### **Memberships**

- National Academy of Forensic Engineers (NAFE) and Board-Certified Diplomate in Forensic Engineering (DFE), American Society of Civil Engineers (ASCE), American Society of Testing and Materials (ASTM), International Code Council (ICC), and National Society of Professional Engineers (NSPE).

### **Registrations**

- Registered Professional Engineer (PE): Florida License No. 54625
- Florida Special Inspector (SI) of Threshold Buildings License No. 2022
  - Alabama
  - Delaware
  - District of Columbia (DC)
  - Georgia
  - Kansas
  - Maryland
  - Massachusetts
  - Nebraska
  - New Hampshire
  - New York
  - North Carolina
  - Ohio
  - South Carolina
  - Texas
  - Vermont
  - West Virginia

### **Continuing Education Courses**

- How to Testify as an Expert Witness at Deposition and Trial
- FL Laws & Rules for PE's
- FL Ethics for PE's
- Lessons from Failures of Building Envelopes
- Engineer Investigation of Hurricane Damage (Wind v. Water)
- Florida Building Code 2020 (7<sup>th</sup> Edition) Chapter 16 Structural Design
- Practical Forensic Engineering – Property
- Evaluating Damage and Repairing Wood Trusses
- 28<sup>th</sup> Annual National Expert Witness Conference
- Structural Forensic Engineering
- Tile Roofing for High Wind Areas
- Roof-to-Wall Flashing
- Asphalt Shingle Roofing for High Wind Regions