Applied Technology Council

Advancing Engineering for Hazard Mitigation: 40 Years of Progress

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Current ATC Approach

- ATC develops state-of-the-art structural engineering applications and resources for mitigating the effects of natural and other hazards on the built environment.

- Hazards such as: Earthquake, Flood, Wind, Blast

ATC Startup

- Founding Impetus: Poor performance of engineered buildings in 1971 San Fernando EQ
- Incorporated in 1973 as a non-profit organization
- Established Founding Principles:
  - Primary Mission: Advance structural engineering practice through the development of state-of-the-art consensus engineering guidelines, based on available research
- Primarily focused on Earthquake Hazards
- Based in San Francisco
- Produces guidelines and aids for Hazard Mitigation

Published two weeks before the 1989 Loma Prieta, California, earthquake
Used to evaluate 10’s of thousands of buildings since then
Defacto national standard for postearthquake safety evaluation of buildings
ATC-20-1 Field Manual updated in 2005 to include new data and information
Published Publications
- Primer on Mitigation of Terrorists Attacks
- Design Guide on Floor Vibrations
- Field Manual: Safety evaluation of buildings after wind storms and floods

Current Publications
- Building Seismic Hazard Mitigation
- Bridge and Bridge Seismic Hazard Mitigation
- Bridge and Bridge Seismic Hazard Mitigation Topical Collection
- Wind and Flood Hazard Mitigation
- Blast Effects Mitigation
- Floor Vibrations
- ATC Subscription Program
- SAC Reports: Steel Moment-Frame Bridge
- Seismic Hazard Mitigation
- Event Proceedings
- NEHRP Consultants Joint Venture

Technical Rigor
- ATC creates resources for Structural Engineers!
- Prepared by leading experts
- Diverse spectrum of engineering opinion
- Non-proprietary, objective & state-of-the-art
- Exhaustive quality review

Wind Speed Calculator
- Designed to provide users with a site-specific wind speed value based on U.S. Climatic Code System. The website allows users to input their location and receive a wind speed value. The maximum values are based on the 30-year return period.
Resources for Engineers

- [https://www.atcouncil.org](https://www.atcouncil.org)

Questions?

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