

Pavement Engineering Services

Structural Testing, Analysis, and
Rehabilitation Design



The National Center for Asphalt Technology (NCAT) is one of the world's leading institutions for asphalt pavement research and testing. We develop and evaluate new products, design technologies and construction methods that lead to asphalt pavement improvements.

Our mission is to provide innovative, relevant and implementable research, technology development and education that advances safe and economically sustainable asphalt pavements.

NCAT is fully equipped with the latest laboratory and field testing equipment.

We offer:

- Non-destructive deflection testing
- Structural pavement analysis and design
- Forensic structural testing and analysis
- Quality control testing during pavement construction and rehabilitation projects
- Visual condition surveys to identify existing surface condition
- Laboratory characterization

Key benefits of a comprehensive evaluation include:

- Determining current pavement condition and in-situ pavement layer strengths
- Identifying pavement design parameters
- Estimating remaining functional and structural serviceable life
- Proactive identification of early-stage structural problems (proactive pavement management)
- Site-specific pavement rehabilitation designs (Mechanistic-Empirical)
- Forensic assessment may assist in identifying underlying causes of failure

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