



The Falling Weight Deflectometer

The Falling Weight Deflectometer (FWD) applies a dynamic load that simulates the loading of a moving wheel. The pavement response is analysed with Dynatest's software to determine the elastic moduli and stresses of each modeled layer. It then reports the weakest layer of failure, residual life and determines the optimum rehabilitation alternatives.

Key benefits of the FWD:

- When you utilise the FWD you gain the technical and advice of Road Sciences' experts who will generate reports and interpret the data for you.
- Road Science can provide a range of outputs including raw data, back calculated results and full design reports.

In conjunction with our software package, the FWD:

- Offers rapid analysis
- Outputs can be used to determine the optimum rehabilitation alternatives.
- Can consider new innovative materials, that may be better suited to local environmental conditions.
- Determines the effects of overloading, allowing additional rehabilitation costs to be determined.
- Utilises mechanistic-empirical analysis techniques that work over a wide variety of pavements types, loading and local environmental conditions.
- Parameter files can be easily setup with local material, vehicle loading and rehabilitation options.
- Determines moduli, stresses and strains for up to five layers.
- Is IANZ accredited to the Austroads Test Method AG:AM/T006 - pavement deflection measurement with an (FWD).

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Habitat



Rural



Motorway



Residential