



LWD Benefits

- Determines the dynamic sub-grade modulus E and dynamic spring stiffness K at an affordable cost
- Immediate on site results
- Quality Assurance
- Capability to undertake multiple tests per day
- Trained and experienced personnel



TEST RIGHT • BUILD RIGHT

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**LIGHT WEIGHT
DEFLECTOMETER
(LWD)**

**as per
ASTM E2835-11**



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Applications

Highway and Bridges

- Pavements and their subgrades
- Reinforced earth structures and MSE

Earthworks

- Earthworks of any type
- Landfills and backfilled areas

Geotechnical Engineering

- Gravel rafts and structural fills
- Evaluation of ground improvements
- Stiffness evaluation of subgrade soils
- Site investigations for stiffness mapping

Land Development

- Compaction control of bulk earthworks

Civil Works and Infrastructure

- Canals, Airports and Airfields
- Compaction control in pipe & service trenches

Light Weight Deflectometer (LWD)

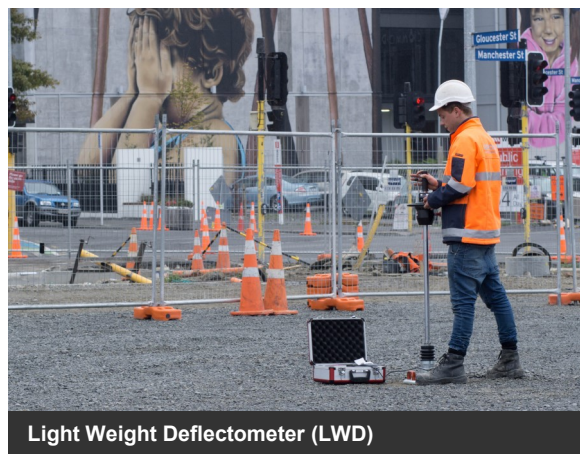
LWD is used in all type of earthworks for determining the:

- Resilient soil modulus E_{vd}
- Degree of compaction
- Load bearing capacity
- Spring stiffness K

Type of Soils

The test method is suited for coarse-grained soils with a maximum grain size of 63mm. However, it can be used in mixed and clayey soils for soil characterization. LWD can be used to determine soil modulus values of up to 225MPa.

Manage and control your compaction works and improve the quality of your construction.



Light Weight Deflectometer (LWD)

Advantages

LWD technology enables you to efficiently manage and control your compaction works and to improve the quality of your construction.

- Minimal time required per measuring point
- No counterweight is required
- Can test in locations where access is challenging
- Manufactured according to latest technical standards
- Cost effective
- Calibrated by an approved calibration institute.

LWD gives you confidence, saves time and money!

Complementary services

- Static plate load tester
- Nuclear Densometer Measurement (NDM)
- Dynamic Cone Penetration test (DCP)
- Particle size distribution
- Plasticity index, hand auger, shear vane