

## BEARING CAPACITY IS IMPORTANT

Bearing capacity is an important parameter. Just as important as the compaction degree. PRIMA 100 is easy to use and provides first class measurements of the bearing capacity of base layers. An integrated high precision load cell measures the impact load of each individual measurement providing a correct bearing capacity result irrespective of soil type and material. PRIMA 100 measures on anything from clay to base gravel and crushed concrete. PRIMA 100 applies no radioactive sources. No special training is required for normal daily use of PRIMA 100. PRIMA 100 requires no special transport permits

## PRIMA 100 LWD



PRIMA 100 FOR CONSTRUCTION QA AND MONITORING DURING CONSTRUCTION

NATURAL SOIL AND EARTHWORK MATERIALS Irrespective of whether the soil is to carry a large industrial floor, a road, a parking area or other structures, it is crucial to know the surface bearing capacity on top of relevant layers. Only with this knowledge is it possible ensure a correct and uptimum construction.

PRIMA100 utilises an integrated high precision load cell for the measurement of the impact load of each individual measurement providing a correct bearing capacity result irrespective of soil type and earthwork material. PRIMA100 can measure on anything from clay to base gravel and crushed concrete. Knowing the bearing capacity of the soil and foundation materials ensures that the required performance is achieved.

EXCAVATIONS AND REHABILITATION OF ROAD LANES **Compaction:** You can control the compaction degree of the excavated and reused often mixed materials. A correct compaction prevents lasting settlements and defects. Sweco has prescribed a measuring procedure for PRIMA 100 for qualitative compaction control of backfill.

**Bearing capacity:** Bearing capacity is as important as compaction. The stiffness of foundation layers is crucial in order to avoid cracking. Thus bearing capacity measurements are performed on old foundation layers immediately after the asphalt layer has been removed. The task is then to obtain the same bearing capacity with the new structure - or as close to as possible. In this way the new and the old asphalt will work uniformly and cracks can be minimised. At the end of the day you save money. PRIMA 100 FOR CONTROL DURING CONSTRUCTION

Apply PRIMA 100 for quality control in connection with construction of foundation layers for roads and other areas. Measuring the bearing capacity on top of the individual layer, you will identify insufficiencies in time and these can be remedied.

Or you may discover that the existing materials are better than expected allowing you to potentially reduce the volume of more expensive material.

Time spent measuring surface modulus can very save money and always ensure construction quality.

## PRIMA 100 FOR CONTROL IN CONNECTION WITH RAIL CONSTRUCTION

PRIMA100 is applied for control of natural soil and structure. When constructing foundation layers for track beds, the bearing capacity is essential. PRIMA100 controls the bearing capacity of soil as well as foundation layers under construction. PRIMA100 is applied on a routine basis when replacing crossings.

Compliance with the specifik requirements to soil and base gravel are controlled. The work needs to be performed as quickly as possible because all road and rail traffic has been stopped. The in-situ reading of e.g. bearing capacity, impact, deflection, time, GPS coordinates and automatic storage of data ensure this.

Sweco plans and designs the communities and cities of the future. Our work results in sustainable buildings, efficient infrastructure and access to electricity and clean water. With 14,500 employees in 15 countries, we offer our customers the right expertise for every situation. We carry out projects in 70 countries annually throughout the world. Sweco is Europe's leading architecture and engineering consultancy, with sales of approximately SEK 15.2 billion (EUR 1.7 billion) (pro forma 2014). The company is listed on NASDAQ OMX Stockholm AB.

Sweco Danmark A/S

Pavement Consultants Kokbjerg 5 6000 Kolding T +45 72 207 207 www.pavement-consultants.com Sweco Danmark A/S Ørestads Bloulevard 41 2300 København S T +45 72 207 207 www.sweco.dk