

Profound Sonic Integrity Testing

SIT-heavy duty



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With the *SIT-heavy duty* you can accurately and efficiently verify the integrity of foundation piles after installation. Using this SIT-system enables you to check the pile length and to detect irregularities and/or cracks in the pile shaft.

The *SIT-heavy duty* is robust, light, easily portable and operates fully digital. One person can test more than 60 piles within an hour.

Using the *SIT-heavy duty* is very simple: press the sensor onto the pile top while striking the pile head with a hand held hammer. The system registers directly the impact of the hammer followed by the response of the pile and shows both on the display, enabling you to check the quality of the measurement.

The signal can then be stored in the memory of the SIT-system together with other information such as pile number, date, time, site etc.

Afterwards you download the measurement results to a Windows computer for further analysis.



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Technical specifications SIT-heavy duty

Temperature range	0 °C to + 40°C
Protection rating	IP62 according to DIN 40 050/IEC 529
Batteries	Internal NiMH battery
Battery life	≥ 8 hours (continuous operation)
Data retention	10 year (minimum) at 25°C
Storage capacity	512 kbyte ≈ 16 000 meter pile
Sensor	Bruel & Kjaer 4370 piezo-electric acceleration sensor, equipped with an integrated amplifier and automatic cable error detection
AD-converter	12 bit, effective sample rate 40 kHz
Clock stability	≈ 5 minutes/year at 25°C
Communication port	RS232C 19200 baud
PC software program	Windows '95 (or higher)
Dimensions	260 x 170 x 60 mm
Weight	2.2 kg