



**TUBULAR SOIL PENETRATION METER**

The pocketable penetration meter is used for determining the resistance of the soil in undrained conditions, to the penetration of the instrument. It is composed of two telescopic cylinders, which contain compression spring, and a tip which penetrates into the soil. The instrument's graduated scale displays the unconfined compressive strength (UCS) in MPa, as derived from the force required to drive the tool into the ground.

The instrument is particularly useful during continuous surveying to classify cohesive soils. The resistance measured with the pocketable penetration meter helps to determine the characteristics of the soil and provides useful information on its shear resistance.

NATURE OF THE TERRAIN	Admissible load Kg/cm <sup>2</sup> at 1.00/1.50 m of	OBSERVATIONS
Hard primitive rock	20 - 150	
Soft rock (tuff, limestone, sandstone)	7 - 20	
Stable stratified compact gravel	5 - 7	
Stable stratified live sand	3 - 5	The presence of water diminishes the resistance
Medium fine sand	2 - 3	The presence of water diminishes the resistance
Lean (sandy) clay and compact clay	2 - 3	Only if a flow of water is absolutely excluded
Very lean clay and damp clay	0.5 - 1	Depending on absorption
Backfill	0.5 - 1	Depending on settling
Topsoil (virgin)	0.5	Not usable for stable constructions
Muddy, boggy terrain	0 - 0.5	Not usable for stable constructions



#### PHYSICAL

LENGTH	190 mm
DIA METER TIP	6 mm
WEIGHT	250 gr

#### PERFORMANCE

MEASURE RANGE	0 - 4.5 Kg/cm <sup>2</sup>
LIMIT THICKNESS TEST	Terreni coesivi

#### MECHANICAL COMPONENTS

EXTERNAL PART	Aluminium 6060 - 11S
TREATMENT	Anodizing oxidation OX
CALIBRATED SPRING	Steel



#### THE KIT INCLUDES:

- Tubular soil penetration meter
- Fabric belt case
- User manual
- Correlation table

#### PACKAGE

DIMENSIONS	230 x 80 x 10 mm
WEIGHT	350 gr.

DRC guarantees maintenance service at its center or at authorized centers.