

SITE ENGINEERING WORKSHEET

Design Brief

(This information is mandatory to comply with CDM 2015 requirements)



Verbal Soil Description Form (in accordance with BS 5930:2010)

Verbal Soil Description Form. The Construction (Design & management) Regulations 2015, place legal obligations on all parties to provide all relevant information to enable them to perform their function. The Client should be aware of the increase in their level of risk when only limited soil information is available.

Verbal Soil Description Form				
Descriptions generally in accordance with BS 5930:2010. For further information see the British Standard.				
Soil Type	Particle Size (mm)	Site Identification	Characteristic Values	
			ϕ	SPT 'N' Value
Very Loose Gravel	>16	Can be excavated by spade	<30°	<4
Loose Gravel	8 -16	50mm wooden peg easily driven	30° - 32°	4 – 10
Medium Dense Gravel	4 -8	Requires machine excavation	32° - 35°	10 – 30
Dense Gravel	2 -4	50mm wooden peg hard to drive	35° - 40°	30 – 50
Very Dense Gravel	1 - 2	Requires machine with pecker attachment	>40°	>50
			ϕ	SPT 'N' Value
Very Loose Sand	1 - 2	Can be excavated by spade	<28°	<4
Loose Sand	0.5 - 1	50mm wooden peg easily driven	28° - 30°	4 – 10
Medium Dense Sand	0.025 – 0.5	Requires machine excavation	30° - 32°	10 – 30
Dense Sand	0.0125 – 0.025	50mm wooden peg hard to drive	32° - 35°	30 – 50
Very Dense Sand	0.0065 – 0.0125	Requires machine with pecker attachment	>35° >50	
			kN/m ² / °	SPT 'N' Value
Soft / Loose Silt	Varies	Moulded or crushed by light finger pressure	20 / 15	4 – 10
Firm / Dense Silt	Varies	Moulded or crushed by strong finger pressure	30 / 20	10 – 30
			kN/m ²	
Very Soft Clay		Passes between fingers when squeezed by hand	<20	
Soft Clay		Moulded by light finger pressure	20 – 40	
Firm Clay		Moulded by strong finger pressure	40 – 70	
Stiff Clay		Only indented by thumb	70 – 100	
Very Stiff Clay		Only indented by thumb nail	>100	
			kN/m ² / °	SPT 'N' Value
Organic Clay	Varies	Very compressible	20 / 15	5 – 10
Peat	Varies	Moulded by hand and smears on fingers	15 / 15	0 – 5

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