



COMUNE DI CURTATONE

PGT

DOCUMENTO DI PIANO



IL SINDACO
Antonio Badolato

IL SEGRETARIO COMUNALE
Dott. Giuseppe Capodici

IL RESPONSABILE DEL PROCEDIMENTO



POLARIS - Studio Associato
Prof. Ing. Ugo Bemini



ENGeo - Engineering Geology
Dott. Geol. Carlo Caleffi

ASSETTO GEOLOGICO, IDROGEOLOGICO E SISMICO
ALLEGATO - SCHEDE DATI GEOGNOSTICI

G.14

DATA: Novembre 2008
AGG: Settembre 2010



APPROVAZIONE DELLA CONFERENZA
AMBIENTALE in data

DELIBERA DI ADOZIONE DEL C.C.
n° del

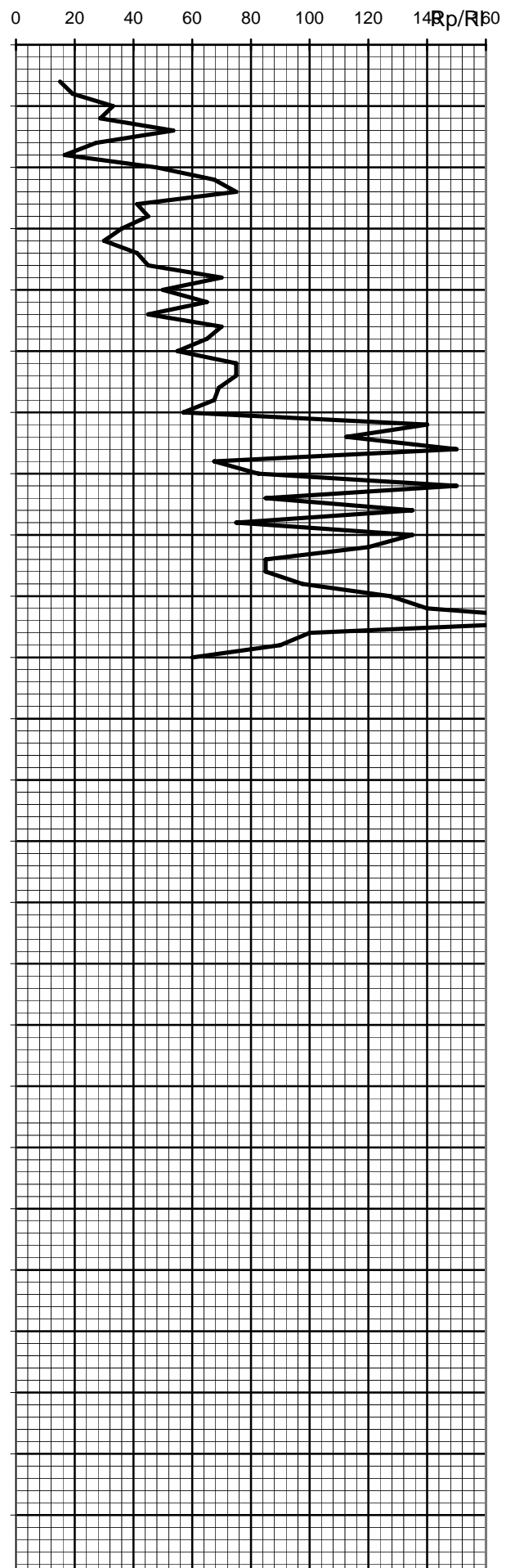
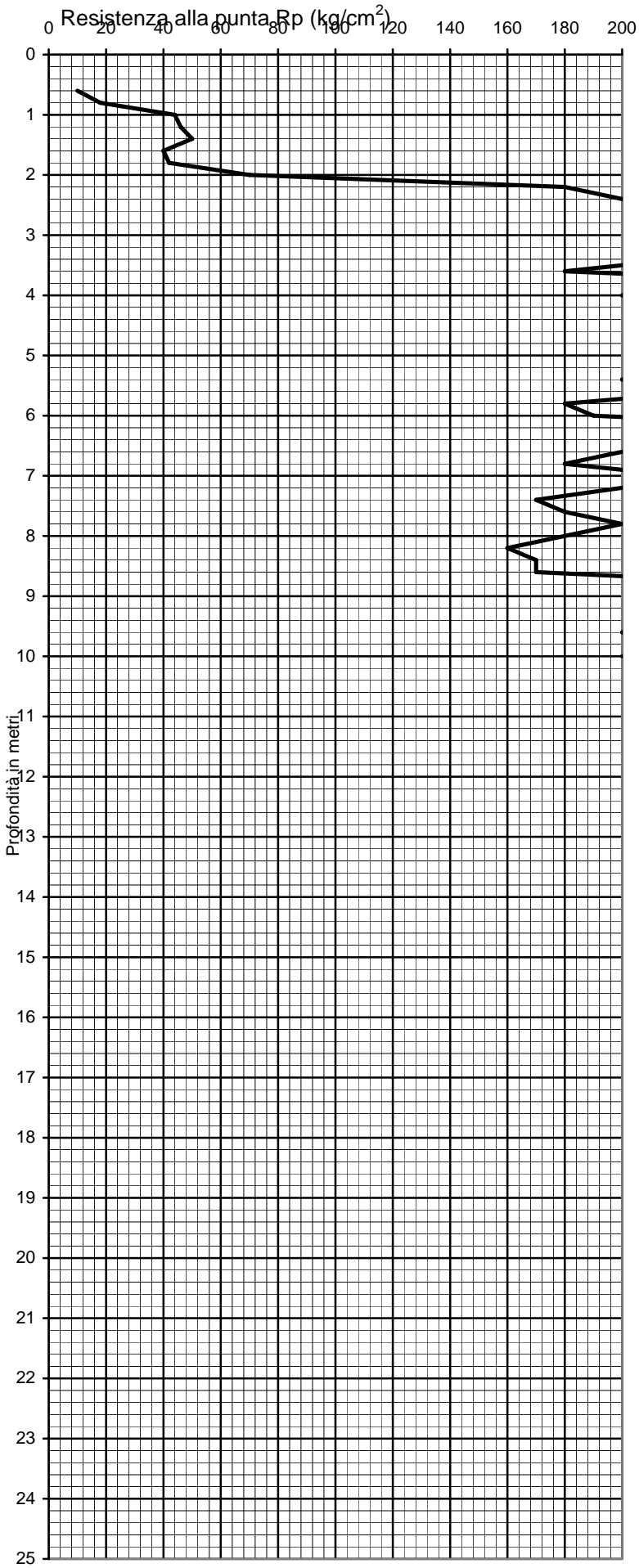
DELIBERA DI APPROVAZIONE DEL C.C.
n° del

PUBBLICAZIONE SUL B.U.R.L.
n° del

CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2

CODICE SONDAGGI DA CG1 a CG4

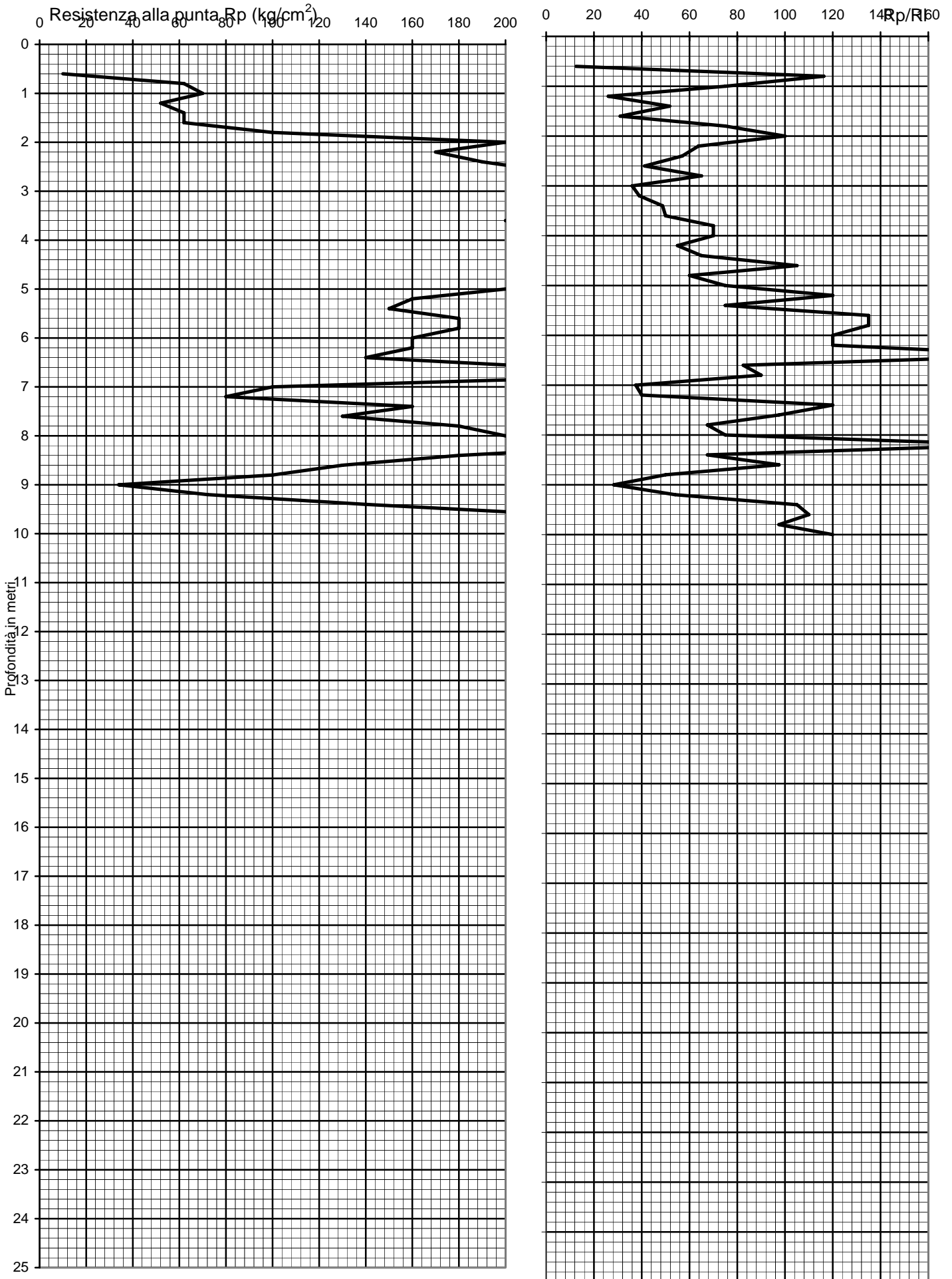
Via AUSTRIA, 24 - 41100 MODENA



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60	10	20	10	0,67	15,00
0,80	18	32	18	0,93	19,29
1,00	44	64	44	1,33	33,00
1,20	46	70	46	1,60	28,75
1,40	50	64	50	0,93	53,57
1,60	40	62	40	1,47	27,27
1,80	42	80	42	2,53	16,58
2,00	70	92	70	1,47	47,73
2,20	180	220	180	2,67	67,50
2,40	200	240	200	2,67	75,00
2,60	220	300	220	5,33	41,25
2,80	240	320	240	5,33	45,00
3,00	240	340	240	6,67	36,00
3,20	240	360	240	8,00	30,00
3,40	220	300	220	5,33	41,25
3,60	180	240	180	4,00	45,00
3,80	280	340	280	4,00	70,00
4,00	200	260	200	4,00	50,00
4,20	260	320	260	4,00	65,00
4,40	240	320	240	5,33	45,00
4,60	280	340	280	4,00	70,00
4,80	260	320	260	4,00	65,00
5,00	220	280	220	4,00	55,00
5,20	250	300	250	3,33	75,00
5,40	200	240	200	2,67	75,00
5,60	230	280	230	3,33	69,00
5,80	180	220	180	2,67	67,50
6,00	190	240	190	3,33	57,00
6,20	280	310	280	2,00	140,00
6,40	300	340	300	2,67	112,50
6,60	200	220	200	1,33	150,00
6,80	180	220	180	2,67	67,50
7,00	220	260	220	2,67	82,50
7,20	200	220	200	1,33	150,00
7,40	170	200	170	2,00	85,00
7,60	180	200	180	1,33	135,00
7,80	200	240	200	2,67	75,00
8,00	180	200	180	1,33	135,00
8,20	160	180	160	1,33	120,00
8,40	170	200	170	2,00	85,00
8,60	170	200	170	2,00	85,00
8,80	260	300	260	2,67	97,50
9,00	340	380	340	2,67	127,50
9,20	280	310	280	2,00	140,00
9,40	260	280	260	1,33	195,00
9,60	200	230	200	2,00	100,00
9,80	240	280	240	2,67	90,00
10,00	200	250	200	3,33	60,00
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Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
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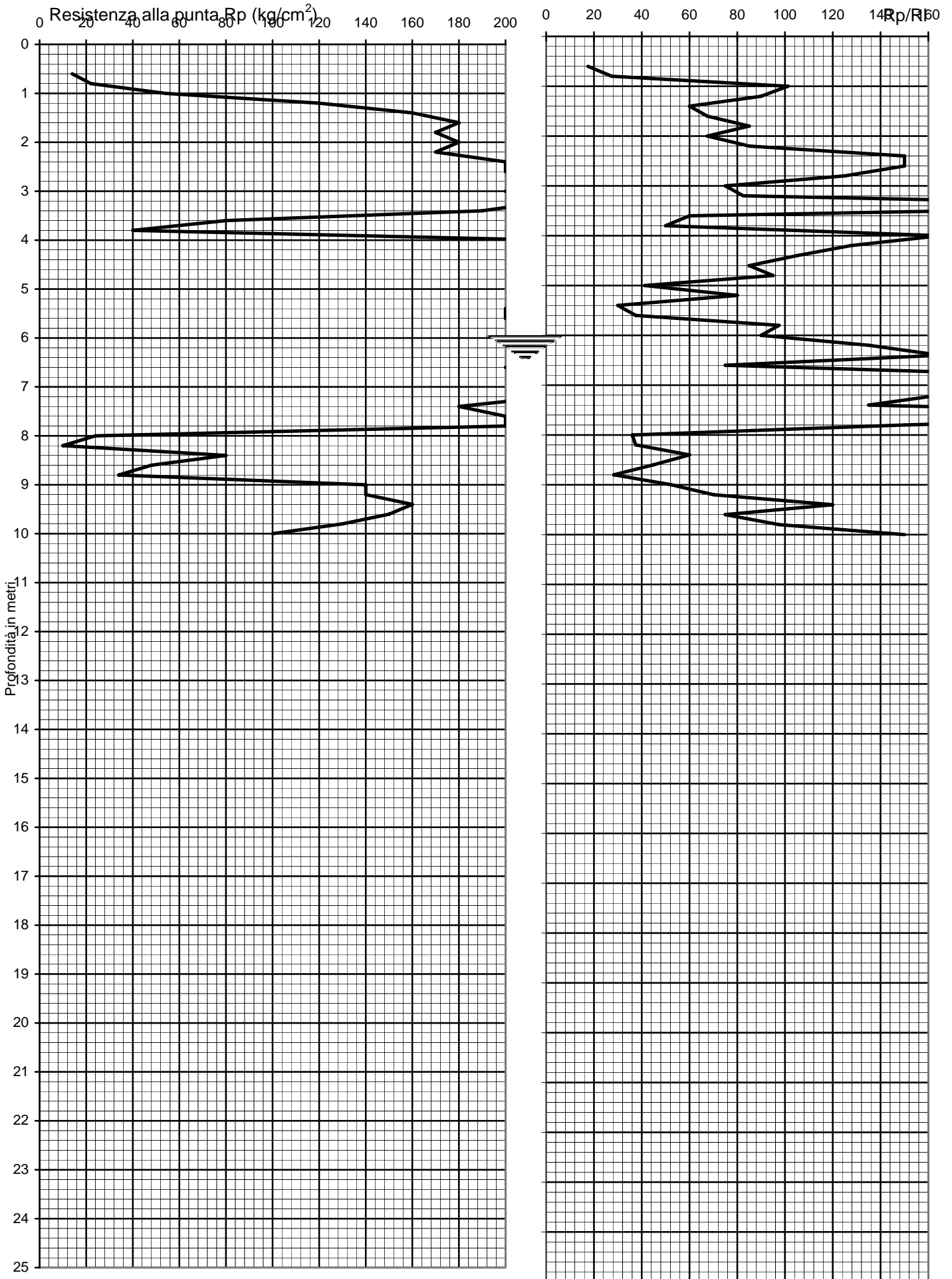
Via AUSTRIA, 24 - 41100 MODENA



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60	10	22	10	0,80	12,50
0,80	62	70	62	0,53	116,25
1,00	70	84	70	0,93	75,00
1,20	52	82	52	2,00	26,00
1,40	62	80	62	1,20	51,67
1,60	62	92	62	2,00	31,00
1,80	100	120	100	1,33	75,00
2,00	200	230	200	2,00	100,00
2,20	170	210	170	2,67	63,75
2,40	190	240	190	3,33	57,00
2,60	220	300	220	5,33	41,25
2,80	260	320	260	4,00	65,00
3,00	240	340	240	6,67	36,00
3,20	260	360	260	6,67	39,00
3,40	260	340	260	5,33	48,75
3,60	200	260	200	4,00	50,00
3,80	280	340	280	4,00	70,00
4,00	280	340	280	4,00	70,00
4,20	220	280	220	4,00	55,00
4,40	260	320	260	4,00	65,00
4,60	280	320	280	2,67	105,00
4,80	240	300	240	4,00	60,00
5,00	200	240	200	2,67	75,00
5,20	160	180	160	1,33	120,00
5,40	150	180	150	2,00	75,00
5,60	180	200	180	1,33	135,00
5,80	180	200	180	1,33	135,00
6,00	160	180	160	1,33	120,00
6,20	160	180	160	1,33	120,00
6,40	140	150	140	0,67	210,00
6,60	220	260	220	2,67	82,50
6,80	240	280	240	2,67	90,00
7,00	100	140	100	2,67	37,50
7,20	80	110	80	2,00	40,00
7,40	160	180	160	1,33	120,00
7,60	130	150	130	1,33	97,50
7,80	180	220	180	2,67	67,50
8,00	200	240	200	2,67	75,00
8,20	260	280	260	1,33	195,00
8,40	180	220	180	2,67	67,50
8,60	130	150	130	1,33	97,50
8,80	100	130	100	2,00	50,00
9,00	34	52	34	1,20	28,33
9,20	72	92	72	1,33	54,00
9,40	140	160	140	1,33	105,00
9,60	220	250	220	2,00	110,00
9,80	260	300	260	2,67	97,50
10,00	240	270	240	2,00	120,00
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Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
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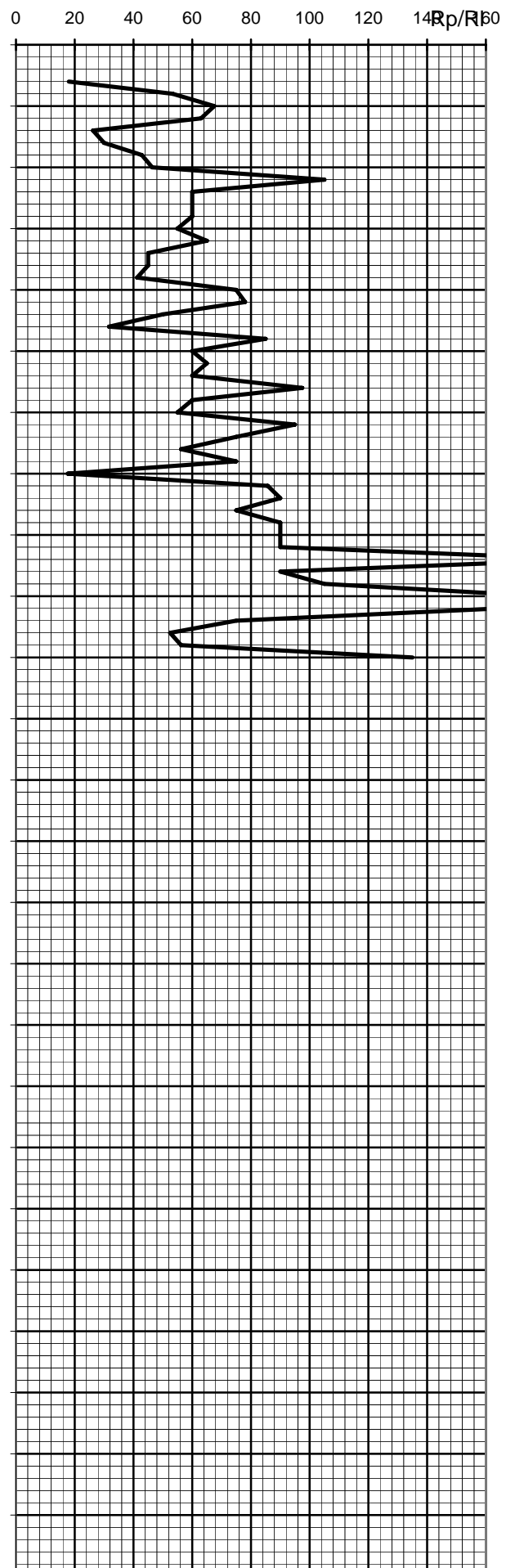
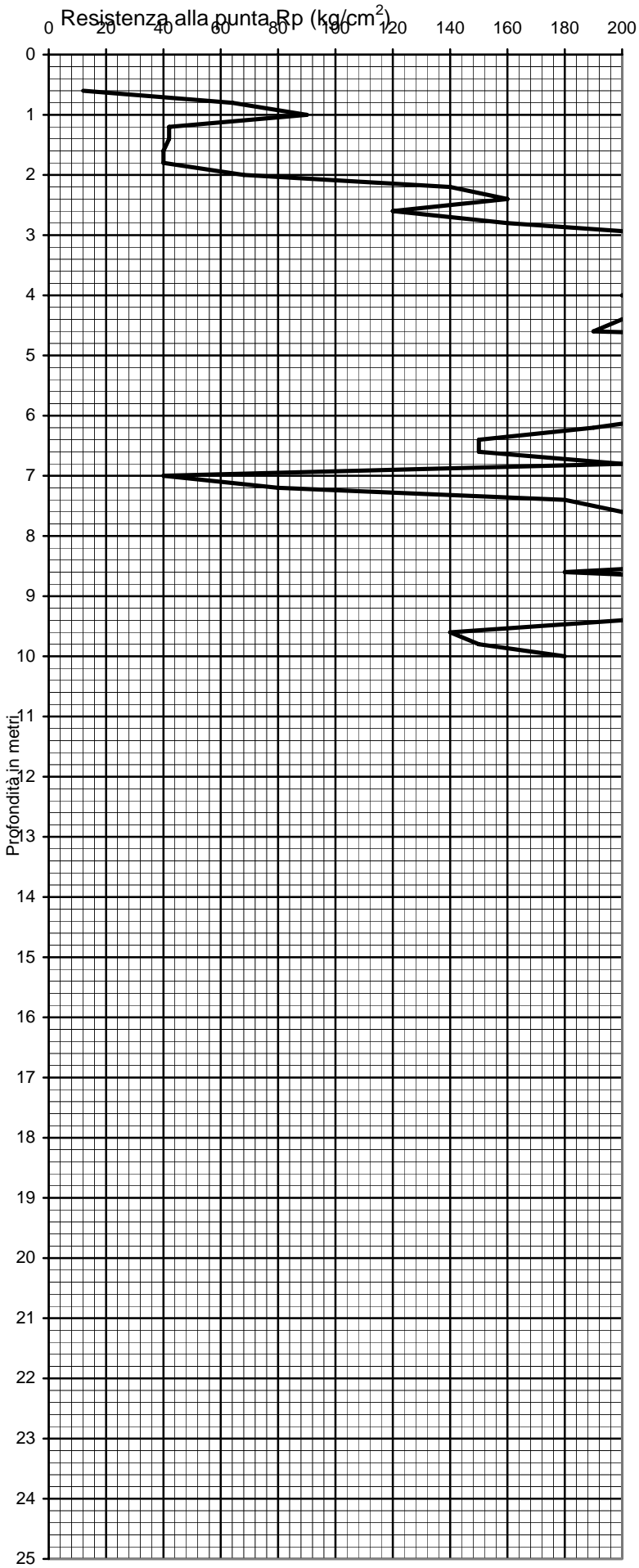
Via AUSTRIA, 24 - 41100 MODENA



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60	14	26	14	0,80	17,50
0,80	22	34	22	0,80	27,50
1,00	54	62	54	0,53	101,25
1,20	120	140	120	1,33	90,00
1,40	160	200	160	2,67	60,00
1,60	180	220	180	2,67	67,50
1,80	170	200	170	2,00	85,00
2,00	180	220	180	2,67	67,50
2,20	170	200	170	2,00	85,00
2,40	200	220	200	1,33	150,00
2,60	200	220	200	1,33	150,00
2,80	250	280	250	2,00	125,00
3,00	200	240	200	2,67	75,00
3,20	220	260	220	2,67	82,50
3,40	190	200	190	0,67	285,00
3,60	80	100	80	1,33	60,00
3,80	40	52	40	0,80	50,00
4,00	220	240	220	1,33	165,00
4,20	340	380	340	2,67	127,50
4,40	420	480	420	4,00	105,00
4,60	340	400	340	4,00	85,00
4,80	380	440	380	4,00	95,00
5,00	220	300	220	5,33	41,25
5,20	320	380	320	4,00	80,00
5,40	200	300	200	6,67	30,00
5,60	200	280	200	5,33	37,50
5,80	260	300	260	2,67	97,50
6,00	240	280	240	2,67	90,00
6,20	270	300	270	2,00	135,00
6,40	220	240	220	1,33	165,00
6,60	200	240	200	2,67	75,00
6,80	280	300	280	1,33	210,00
7,00	220	240	220	1,33	165,00
7,20	220	240	220	1,33	165,00
7,40	180	200	180	1,33	135,00
7,60	200	210	200	0,67	300,00
7,80	200	220	200	1,33	150,00
8,00	24	34	24	0,67	36,00
8,20	10	14	10	0,27	37,50
8,40	80	100	80	1,33	60,00
8,60	48	64	48	1,07	45,00
8,80	34	52	34	1,20	28,33
9,00	140	180	140	2,67	52,50
9,20	140	170	140	2,00	70,00
9,40	160	180	160	1,33	120,00
9,60	150	180	150	2,00	75,00
9,80	130	150	130	1,33	97,50
10,00	100	110	100	0,67	150,00
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Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
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Via AUSTRIA, 24 - 41100 MODENA



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0,20					
0,40					
0,60	12	22	12	0,67	18,00
0,80	64	82	64	1,20	53,33
1,00	90	110	90	1,33	67,50
1,20	42	52	42	0,67	63,00
1,40	42	66	42	1,60	26,25
1,60	40	60	40	1,33	30,00
1,80	40	54	40	0,93	42,86
2,00	68	90	68	1,47	46,36
2,20	140	160	140	1,33	105,00
2,40	160	200	160	2,67	60,00
2,60	120	150	120	2,00	60,00
2,80	160	200	160	2,67	60,00
3,00	220	280	220	4,00	55,00
3,20	260	320	260	4,00	65,00
3,40	240	320	240	5,33	45,00
3,60	240	320	240	5,33	45,00
3,80	220	300	220	5,33	41,25
4,00	200	240	200	2,67	75,00
4,20	260	310	260	3,33	78,00
4,40	200	260	200	4,00	50,00
4,60	190	280	190	6,00	31,67
4,80	340	400	340	4,00	85,00
5,00	320	400	320	5,33	60,00
5,20	260	320	260	4,00	65,00
5,40	240	300	240	4,00	60,00
5,60	260	300	260	2,67	97,50
5,80	240	300	240	4,00	60,00
6,00	220	280	220	4,00	55,00
6,20	190	220	190	2,00	95,00
6,40	150	180	150	2,00	75,00
6,60	150	190	150	2,67	56,25
6,80	200	240	200	2,67	75,00
7,00	40	74	40	2,27	17,65
7,20	80	94	80	0,93	85,71
7,40	180	210	180	2,00	90,00
7,60	200	240	200	2,67	75,00
7,80	240	280	240	2,67	90,00
8,00	240	280	240	2,67	90,00
8,20	240	280	240	2,67	90,00
8,40	260	280	260	1,33	195,00
8,60	180	210	180	2,00	90,00
8,80	280	320	280	2,67	105,00
9,00	240	260	240	1,33	180,00
9,20	220	240	220	1,33	165,00
9,40	200	240	200	2,67	75,00
9,60	140	180	140	2,67	52,50
9,80	150	190	150	2,67	56,25
10,00	180	200	180	1,33	135,00
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Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
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CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2

CODICE SONDAGGI DA IG1 a IG3



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

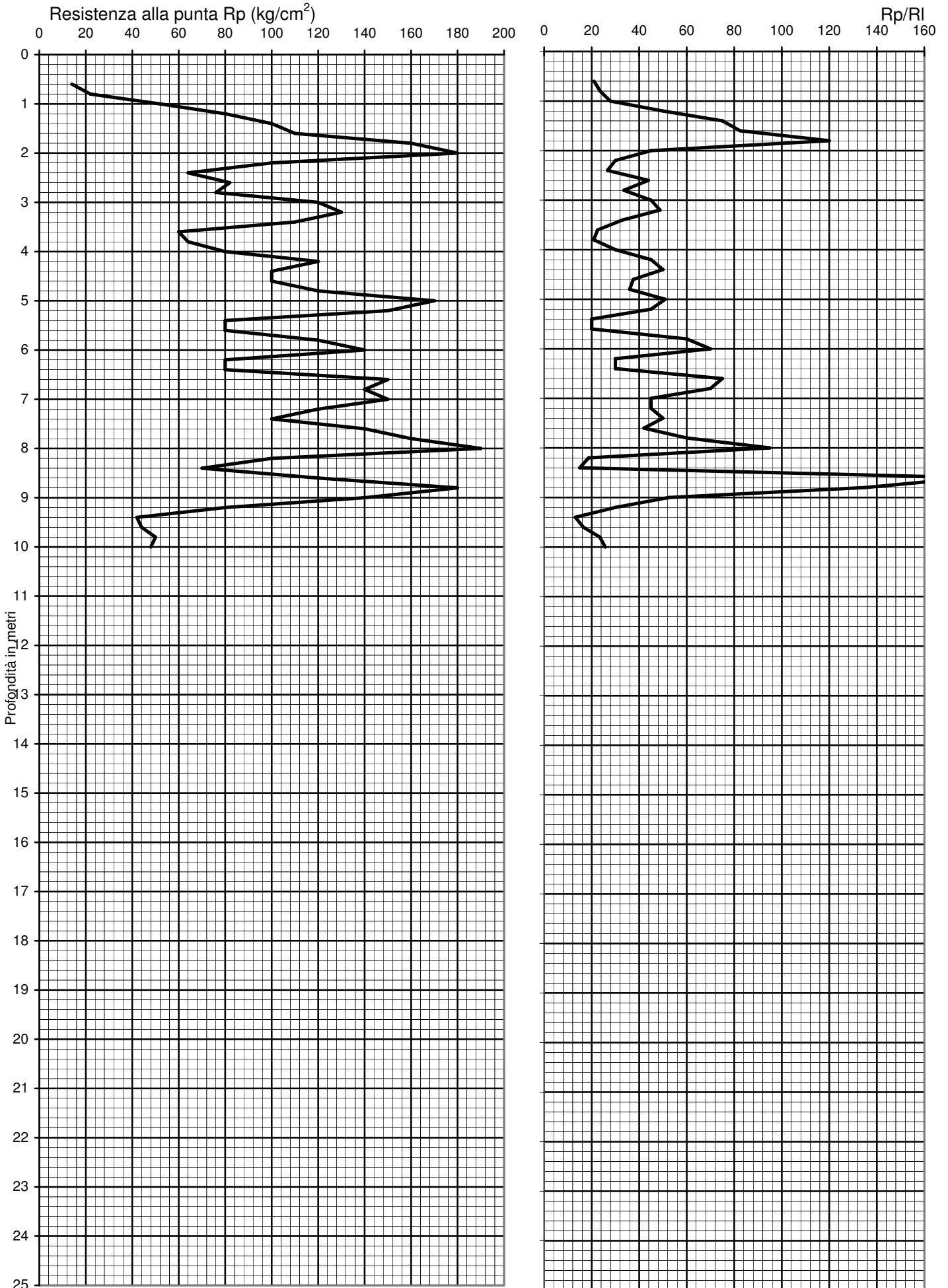
Telefax 059/454827



PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : "IL GIGANTE" CURTATONE (MN)
Prova numero : 1
Data : 21/03/2006
Operatore : DR. REBECCHI
Quota : P.C.



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	Rl (kg/cm ²)	Rp/Rl [-]
0.20					
0.40					
0.60	14	24	14	0.67	21.00
0.80	22	36	22	0.93	23.57
1.00	52	80	52	1.87	27.86
1.20	80	104	80	1.60	50.00
1.40	100	120	100	1.33	75.00
1.60	110	130	110	1.33	82.50
1.80	160	180	160	1.33	120.00
2.00	180	240	180	4.00	45.00
2.20	100	150	100	3.33	30.00
2.40	64	100	64	2.40	26.67
2.60	82	110	82	1.87	43.93
2.80	76	110	76	2.27	33.53
3.00	120	160	120	2.67	45.00
3.20	130	170	130	2.67	48.75
3.40	110	160	110	3.33	33.00
3.60	60	100	60	2.67	22.50
3.80	64	110	64	3.07	20.87
4.00	80	120	80	2.67	30.00
4.20	120	160	120	2.67	45.00
4.40	100	130	100	2.00	50.00
4.60	100	140	100	2.67	37.50
4.80	120	170	120	3.33	36.00
5.00	170	220	170	3.33	51.00
5.20	150	200	150	3.33	45.00
5.40	80	140	80	4.00	20.00
5.60	80	140	80	4.00	20.00
5.80	120	150	120	2.00	60.00
6.00	140	170	140	2.00	70.00
6.20	80	120	80	2.67	30.00
6.40	80	120	80	2.67	30.00
6.60	150	180	150	2.00	75.00
6.80	140	170	140	2.00	70.00
7.00	150	200	150	3.33	45.00
7.20	120	160	120	2.67	45.00
7.40	100	130	100	2.00	50.00
7.60	140	190	140	3.33	42.00
7.80	160	200	160	2.67	60.00
8.00	190	220	190	2.00	95.00
8.20	100	180	100	5.33	18.75
8.40	70	140	70	4.67	15.00
8.60	120	130	120	0.67	180.00
8.80	180	200	180	1.33	135.00
9.00	140	180	140	2.67	52.50
9.20	80	120	80	2.67	30.00
9.40	42	90	42	3.20	13.13
9.60	44	84	44	2.67	16.50
9.80	50	82	50	2.13	23.44
10.00	48	76	48	1.87	25.71
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
11.80					
12.00					
12.20					
12.40					
12.60					
12.80					
13.00					
13.20					
13.40					
13.60					
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

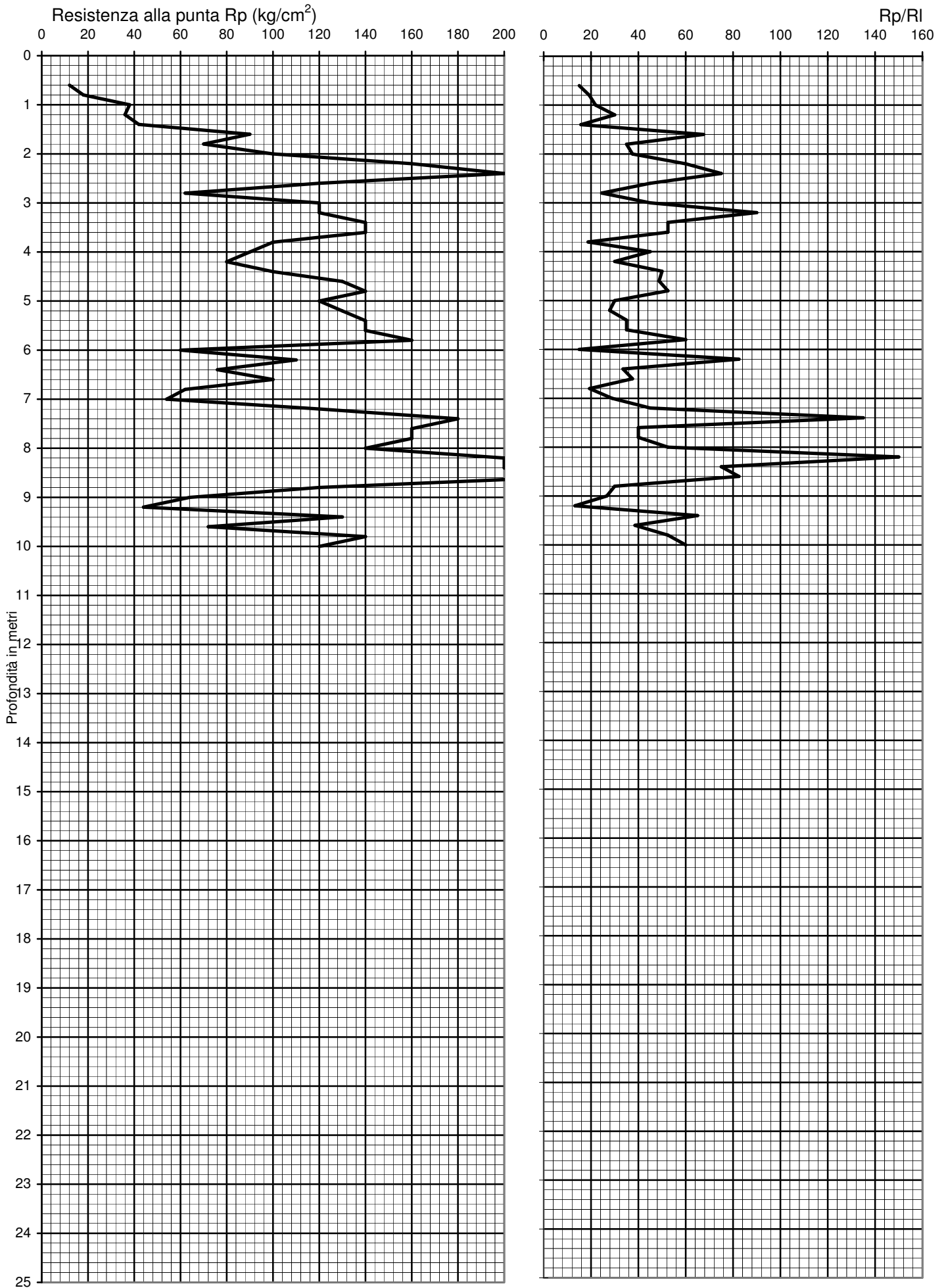
Telefax 059/454827



PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : "IL GIGANTE" CURTATONE (MN)
Prova numero : 2
Data : 21/03/2006
Operatore : DR. REBECCHI
Quota : P.C.



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	Rl (kg/cm ²)	Rp/Rl [-]
0.20					
0.40					
0.60	12	24	12	0.80	15.00
0.80	18	32	18	0.93	19.29
1.00	38	64	38	1.73	21.92
1.20	36	54	36	1.20	30.00
1.40	42	82	42	2.67	15.75
1.60	90	110	90	1.33	67.50
1.80	70	100	70	2.00	35.00
2.00	100	140	100	2.67	37.50
2.20	160	200	160	2.67	60.00
2.40	200	240	200	2.67	75.00
2.60	120	160	120	2.67	45.00
2.80	62	100	62	2.53	24.47
3.00	120	160	120	2.67	45.00
3.20	120	140	120	1.33	90.00
3.40	140	180	140	2.67	52.50
3.60	140	180	140	2.67	52.50
3.80	100	180	100	5.33	18.75
4.00	90	120	90	2.00	45.00
4.20	80	120	80	2.67	30.00
4.40	100	130	100	2.00	50.00
4.60	130	170	130	2.67	48.75
4.80	140	180	140	2.67	52.50
5.00	120	180	120	4.00	30.00
5.20	130	200	130	4.67	27.86
5.40	140	200	140	4.00	35.00
5.60	140	200	140	4.00	35.00
5.80	160	200	160	2.67	60.00
6.00	60	120	60	4.00	15.00
6.20	110	130	110	1.33	82.50
6.40	76	110	76	2.27	33.53
6.60	100	140	100	2.67	37.50
6.80	62	110	62	3.20	19.38
7.00	54	82	54	1.87	28.93
7.20	120	160	120	2.67	45.00
7.40	180	200	180	1.33	135.00
7.60	160	220	160	4.00	40.00
7.80	160	220	160	4.00	40.00
8.00	140	180	140	2.67	52.50
8.20	200	220	200	1.33	150.00
8.40	200	240	200	2.67	75.00
8.60	220	260	220	2.67	82.50
8.80	120	180	120	4.00	30.00
9.00	64	100	64	2.40	26.67
9.20	44	94	44	3.33	13.20
9.40	130	160	130	2.00	65.00
9.60	72	100	72	1.87	38.57
9.80	140	180	140	2.67	52.50
10.00	120	150	120	2.00	60.00
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
11.80					
12.00					
12.20					
12.40					
12.60					
12.80					
13.00					
13.20					
13.40					
13.60					
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

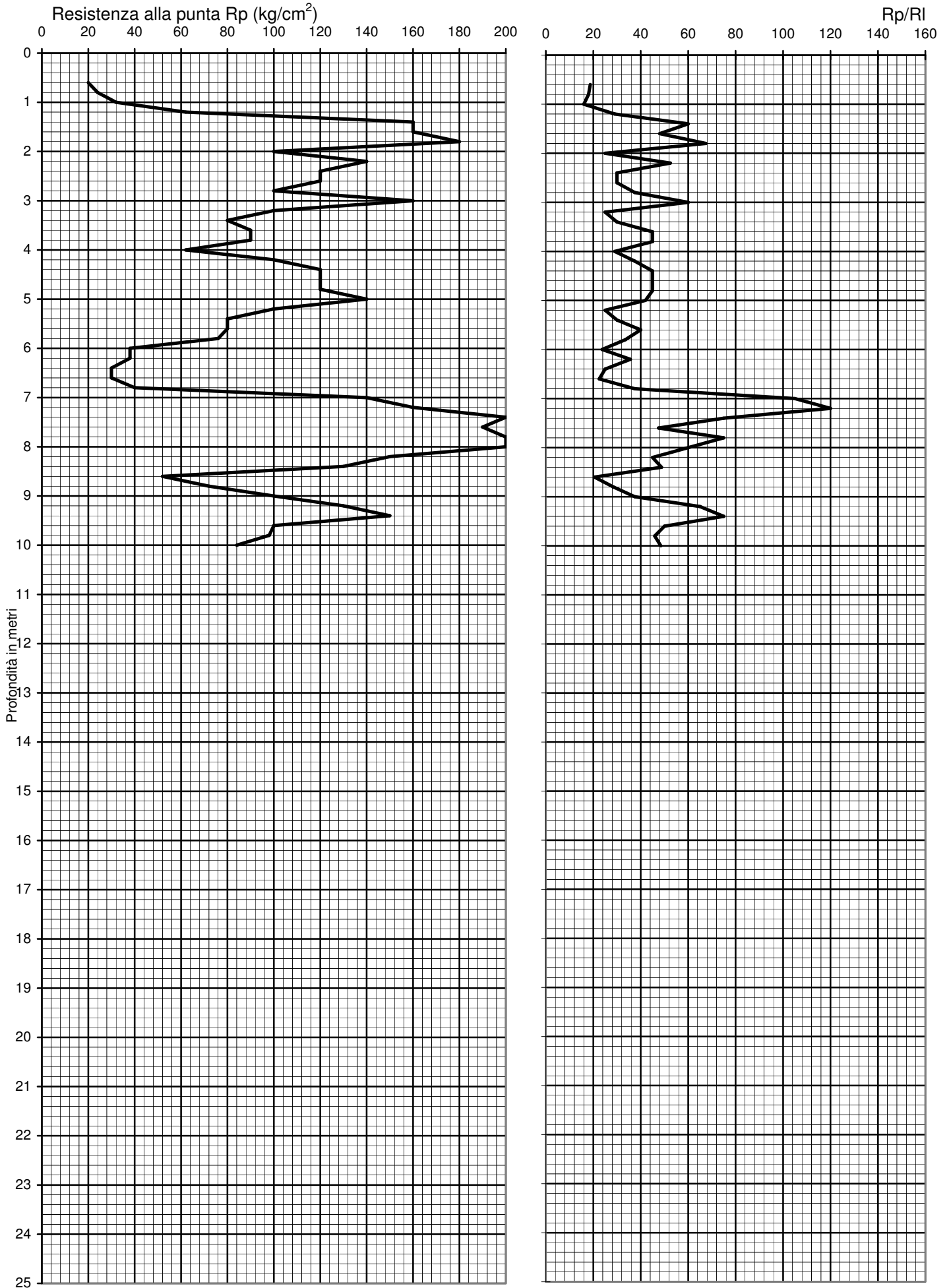
Telefax 059/454827



PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : "IL GIGANTE" CURTATONE (MN)
Prova numero : 3
Data : 21/03/2006
Operatore : DR. REBECCHI
Quota : P.C.



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	Rl (kg/cm ²)	Rp/Rl [-]
0.20					
0.40					
0.60	20	36	20	1.07	18.75
0.80	24	44	24	1.33	18.00
1.00	32	62	32	2.00	16.00
1.20	62	94	62	2.13	29.06
1.40	160	200	160	2.67	60.00
1.60	160	210	160	3.33	48.00
1.80	180	220	180	2.67	67.50
2.00	100	160	100	4.00	25.00
2.20	140	180	140	2.67	52.50
2.40	120	180	120	4.00	30.00
2.60	120	180	120	4.00	30.00
2.80	100	140	100	2.67	37.50
3.00	160	200	160	2.67	60.00
3.20	100	160	100	4.00	25.00
3.40	80	120	80	2.67	30.00
3.60	90	120	90	2.00	45.00
3.80	90	120	90	2.00	45.00
4.00	62	94	62	2.13	29.06
4.20	100	140	100	2.67	37.50
4.40	120	160	120	2.67	45.00
4.60	120	160	120	2.67	45.00
4.80	120	160	120	2.67	45.00
5.00	140	190	140	3.33	42.00
5.20	100	160	100	4.00	25.00
5.40	80	120	80	2.67	30.00
5.60	80	110	80	2.00	40.00
5.80	76	110	76	2.27	33.53
6.00	38	62	38	1.60	23.75
6.20	38	54	38	1.07	35.63
6.40	30	48	30	1.20	25.00
6.60	30	50	30	1.33	22.50
6.80	40	56	40	1.07	37.50
7.00	140	160	140	1.33	105.00
7.20	160	180	160	1.33	120.00
7.40	200	240	200	2.67	75.00
7.60	190	250	190	4.00	47.50
7.80	200	240	200	2.67	75.00
8.00	200	250	200	3.33	60.00
8.20	150	200	150	3.33	45.00
8.40	130	170	130	2.67	48.75
8.60	52	90	52	2.53	20.53
8.80	72	110	72	2.53	28.42
9.00	100	140	100	2.67	37.50
9.20	130	160	130	2.00	65.00
9.40	150	180	150	2.00	75.00
9.60	100	130	100	2.00	50.00
9.80	98	130	98	2.13	45.94
10.00	84	110	84	1.73	48.46
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
11.80					
12.00					
12.20					
12.40					
12.60					
12.80					
13.00					
13.20					
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13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					



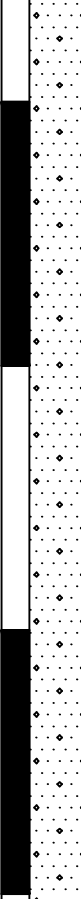
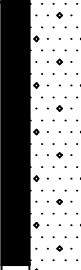
CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2

CODICE SONDAGGI DA S1 a S6

Studio Geologico
Dr. Carlo Coleffi

Comune di Curtatone
Località: Santa Cantoni
Metodo di perforazione: Sondaggio con escavatore meccanico

Data: 02-09-05
Quota: p.c.
Sondaggio 1

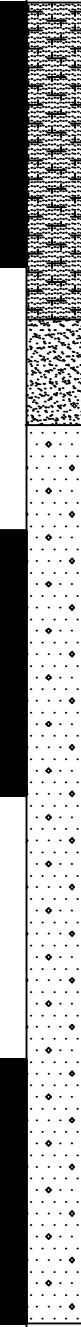

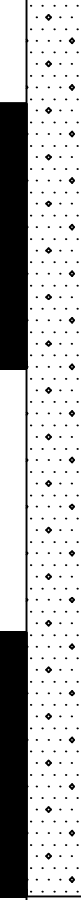
var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Podet. pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>				
0.60				<i>Sabbia fine debolmente limosa, umida, color grigio-nocciola.</i>				
0.80				<i>Sabbia media, ghialosa, con elementi di dimensioni centimetriche. Emergenze idriche dalle pareti dello scavo a partire da 1,7 m da p.c.</i>				
2.60				<i>fine sondaggio</i>				
3.00								

Rilevatore: Dott. Massimiliano Trauzzi

Studio Geologico
Dr. Carlo Coleffi

Comune di Curtatone
Località: Santa Cantoni
Metodo di perforazione: Sondaggio con escavatore meccanico

Data: 02-09-05
Quota: p.c.
Sondaggio 2



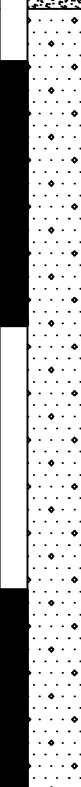
var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pocket pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>				
0.60								
				<i>Sabbia fine, debolmente limosa, umida, color grigio-nocciola.</i>				
0.80								
				<i>Sabbia media, ghiaiosa, con elementi di dimensioni centimetriche. Emergenze idriche dalle pareti dello scavo a partire da 2,0 m da p.c.</i>				
2.50				<i>fine sondaggio</i>				
3.00								

Rilevatore: Dott. Massimiliano Trauzzi

Studio Geologico
Dr. Carlo Caleffi

Comune di Curtatone
Località: Santa Cantoni
Metodo di perforazione: Sondaggio con escavatore meccanico

Data: 02-09-05
Quota: p.c.
Sondaggio 3


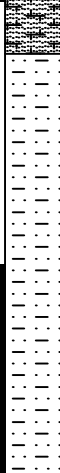
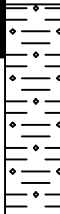


var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Probat. pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>				
0.60				<i>Sabbia fine, debolmente limosa, umida, color grigio-nocciola.</i>				
0.90				<i>Sabbia media, ghiaiosa, con elementi di dimensioni centimetriche. Emergenze idriche dalle pareti dello scavo a partire da 1,4 m da p.c.</i>				
2.40				<i>fine sondaggio</i>				
3.00								

Rilevatore: Dott. Massimiliano Trauzzi

Studio Geologico
Dr. Carlo Caleffi


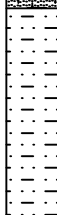
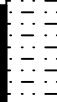



Comune di Curtatone
Località: Santa Cantoni
Metodo di perforazione: Sondaggio con escavatore meccanico

Data: 02-09-05
Quota: p.c.
Sondaggio 4

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pocket pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>				
0.60				<i>Limo con argilla debolmente sabbioso, color nocciola. Presenza di concrezioni calcaree centimetriche (castracan). Emergenze idriche dalle pareti dello scavo a partire da 1,4 m da p.c.</i>			0.5	
1.40				<i>Limo con argilla, ghiaioso, con elementi da millimetrici a centimetrici, di colore bruno.</i>			0.6	
1.80				<i>Sabbia media, ghiaiosa, con elementi di dimensioni centimetriche.</i>			0.5	
2.20				<i>fine sondaggio</i>				
3.00								

Rilevatore: Dott. Massimiliano Trauzzi

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pocket pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>			0.5	
0.80				<i>Limo con argilla debolmente sabbioso, umido, color nocciola, ocra all'alterazione. Presenza di concrezioni calcaree centimetriche (castracan).</i>			0.6	
1.10				<i>Limo argilloso, color grigio, consistente, umido, ocra all'alterazione.</i>			0.5	
				<i>Limo argilloso, color grigio, consistente, umido, ocra all'alterazione.</i>			2.0	
1.60				<i>Limo argilloso, color grigio, consistente, umido, ocra all'alterazione.</i>			2.2	
				<i>Sabbia media, ghiaiosa, con elementi di dimensioni centimetriche. Emergenze idriche dalle pareti dello scavo a partire da 1,7 m da p.c.</i>			2.5	
2.50				<i>fine sondaggio</i>				
3.00								

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Podst. pen.	Prova Perm.
					prof.	colpi		
				<i>Terreno agrario prevalentemente limoso.</i>				
0.60				<i>Limo con argilla, debolmente sabbioso, umido, color nocciola. Presenza di concrezioni calcaree centimetriche (castracan).</i>			0.6	
1.20				<i>Limo con argilla, consistente, umido, color grigio-nocciola.</i>			0.5	
1.60				<i>Limo con argilla, consistente, umido, color grigio-nocciola.</i>			2.5	
1.90				<i>Sabbia fine, con limo, grigio-nocciola. Emergenze idriche dalle pareti dello scavo a partire da 1,7 m da p.c.</i>			2.7	
2.10				<i>Sabbia media, ghiaiosa, con elementi di dimensioni centimetriche.</i>			2.7	
				<i>fine sondaggio</i>				
3.00								

CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2

CODICE SONDAGGI DA P1 a P7

Località Levata



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

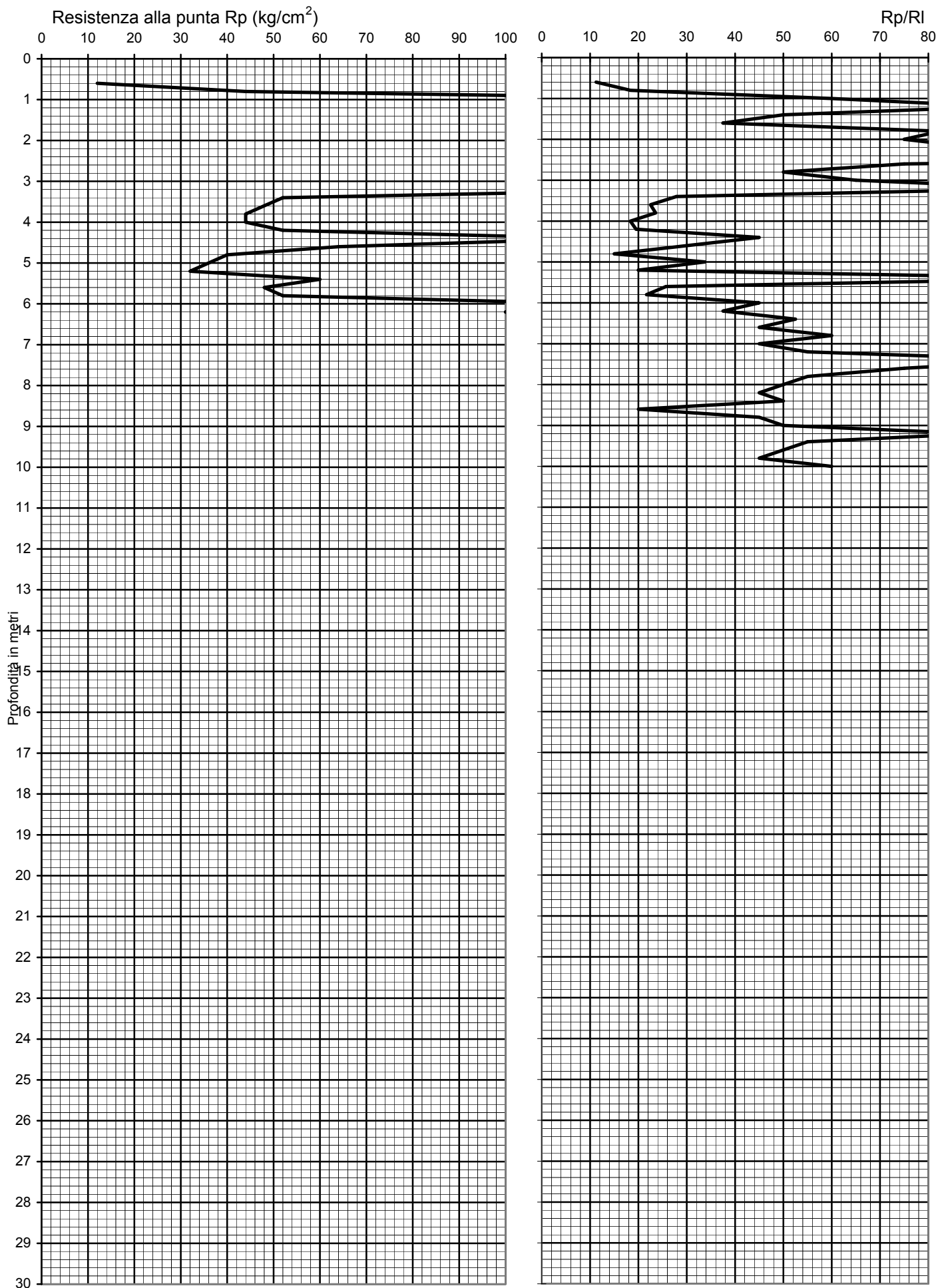
Telefax 059/454827



PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 1
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	12	28	12	1.07	11.25
0.80	44	80	44	2.40	18.33
1.00	160	200	160	2.67	60.00
1.20	190	220	190	2.00	95.00
1.40	200	260	200	4.00	50.00
1.60	200	280	200	5.33	37.50
1.80	220	260	220	2.67	82.50
2.00	200	240	200	2.67	75.00
2.20	240	280	240	2.67	90.00
2.40	260	280	260	1.33	195.00
2.60	200	240	200	2.67	75.00
2.80	200	260	200	4.00	50.00
3.00	260	320	260	4.00	65.00
3.20	140	160	140	1.33	105.00
3.40	52	80	52	1.87	27.86
3.60	48	80	48	2.13	22.50
3.80	44	72	44	1.87	23.57
4.00	44	80	44	2.40	18.33
4.20	52	92	52	2.67	19.50
4.40	120	160	120	2.67	45.00
4.60	64	96	64	2.13	30.00
4.80	40	80	40	2.67	15.00
5.00	36	52	36	1.07	33.75
5.20	32	56	32	1.60	20.00
5.40	60	68	60	0.53	112.50
5.60	48	76	48	1.87	25.71
5.80	52	88	52	2.40	21.67
6.00	120	160	120	2.67	45.00
6.20	100	140	100	2.67	37.50
6.40	140	180	140	2.67	52.50
6.60	120	160	120	2.67	45.00
6.80	160	200	160	2.67	60.00
7.00	180	240	180	4.00	45.00
7.20	220	280	220	4.00	55.00
7.40	280	320	280	2.67	105.00
7.60	300	360	300	4.00	75.00
7.80	220	280	220	4.00	55.00
8.00	200	260	200	4.00	50.00
8.20	180	240	180	4.00	45.00
8.40	200	260	200	4.00	50.00
8.60	160	280	160	8.00	20.00
8.80	180	240	180	4.00	45.00
9.00	200	260	200	4.00	50.00
9.20	240	280	240	2.67	90.00
9.40	220	280	220	4.00	55.00
9.60	200	260	200	4.00	50.00
9.80	180	240	180	4.00	45.00
10.00	160	200	160	2.67	60.00
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
11.80					
12.00					
12.20					
12.40					
12.60					
12.80					
13.00					
13.20					
13.40					
13.60					
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
16.40					
16.60					
16.80					
17.00					
17.20					
17.40					
17.60					
17.80					
18.00					
18.20					
18.40					
18.60					
18.80					
19.00					
19.20					
19.40					
19.60					
19.80					
20.00					
20.20					
20.40					
20.60					
20.80					
21.00					
21.20					
21.40					
21.60					
21.80					
22.00					
22.20					
22.40					
22.60					
22.80					
23.00					
23.20					
23.40					
23.60					
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24.20					
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25.60					
25.80					
26.00					
26.20					
26.40					
26.60					
26.80					
27.00					
27.20					
27.40					
27.60					
27.80					
28.00					
28.20					
28.40					
28.60					
28.80					
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30.00					



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

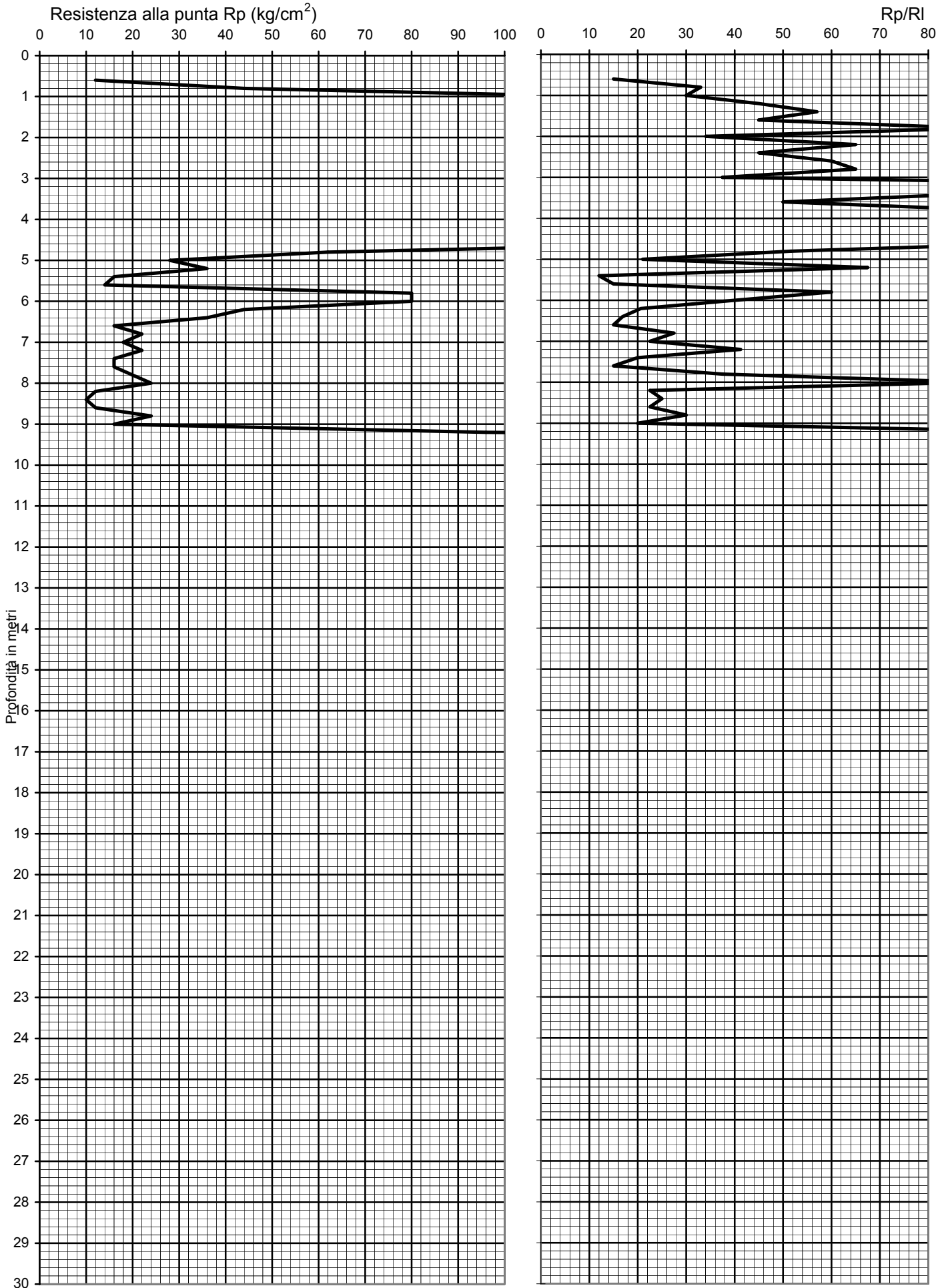
Telefax 059/454827



PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 2
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Note: chiuso e asciutto fino a -4.90 m

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	12	24	12	0.80	15.00
0.80	44	64	44	1.33	33.00
1.00	120	180	120	4.00	30.00
1.20	180	240	180	4.00	45.00
1.40	190	240	190	3.33	57.00
1.60	180	240	180	4.00	45.00
1.80	240	280	240	2.67	90.00
2.00	250	360	250	7.33	34.09
2.20	260	320	260	4.00	65.00
2.40	240	320	240	5.33	45.00
2.60	240	300	240	4.00	60.00
2.80	260	320	260	4.00	65.00
3.00	200	280	200	5.33	37.50
3.20	300	330	300	2.00	150.00
3.40	240	280	240	2.67	90.00
3.60	200	260	200	4.00	50.00
3.80	250	290	250	2.67	93.75
4.00	240	280	240	2.67	90.00
4.20	260	300	260	2.67	97.50
4.40	200	230	200	2.00	100.00
4.60	140	160	140	1.33	105.00
4.80	62	80	62	1.20	51.67
5.00	28	48	28	1.33	21.00
5.20	36	44	36	0.53	67.50
5.40	16	36	16	1.33	12.00
5.60	14	28	14	0.93	15.00
5.80	80	100	80	1.33	60.00
6.00	80	110	80	2.00	40.00
6.20	44	76	44	2.13	20.63
6.40	36	68	36	2.13	16.88
6.60	16	32	16	1.07	15.00
6.80	22	34	22	0.80	27.50
7.00	18	30	18	0.80	22.50
7.20	22	30	22	0.53	41.25
7.40	16	28	16	0.80	20.00
7.60	16	32	16	1.07	15.00
7.80	20	28	20	0.53	37.50
8.00	24	28	24	0.27	90.00
8.20	12	20	12	0.53	22.50
8.40	10	16	10	0.40	25.00
8.60	12	20	12	0.53	22.50
8.80	24	36	24	0.80	30.00
9.00	16	28	16	0.80	20.00
9.20	96	110	96	0.93	102.86
9.40	300	320	300	1.33	225.00
9.60	360	420	360	4.00	90.00
9.80	410	460	410	3.33	123.00
10.00	340	380	340	2.67	127.50
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
11.80					
12.00					
12.20					
12.40					
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12.80					
13.00					
13.20					
13.40					
13.60					
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
16.40					
16.60					
16.80					
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28.80					
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29.20					
29.40					
29.60					
29.80					
30.00					



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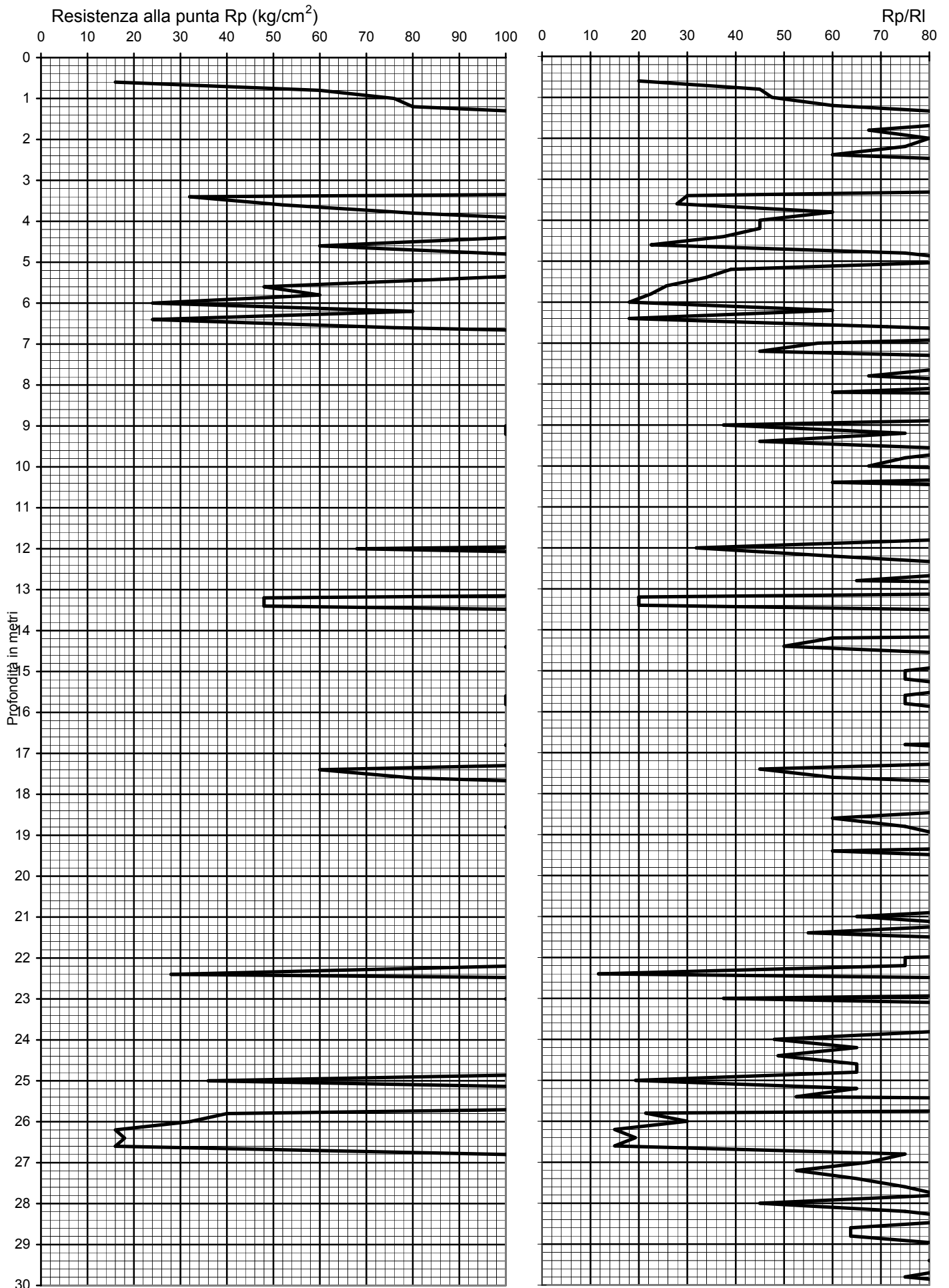
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PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 3
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Note: chiuso e asciutto fino a -4.60 m

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	16	28	16	0.80	20.00
0.80	60	80	60	1.33	45.00
1.00	76	100	76	1.60	47.50
1.20	80	100	80	1.33	60.00
1.40	120	140	120	1.33	90.00
1.60	180	210	180	2.00	90.00
1.80	180	220	180	2.67	67.50
2.00	160	190	160	2.00	80.00
2.20	200	240	200	2.67	75.00
2.40	160	200	160	2.67	60.00
2.60	280	320	280	2.67	105.00
2.80	320	360	320	2.67	120.00
3.00	260	300	260	2.67	97.50
3.20	290	320	290	2.00	145.00
3.40	32	48	32	1.07	30.00
3.60	52	80	52	1.87	27.86
3.80	80	100	80	1.33	60.00
4.00	120	160	120	2.67	45.00
4.20	120	160	120	2.67	45.00
4.40	100	140	100	2.67	37.50
4.60	60	100	60	2.67	22.50
4.80	100	120	100	1.33	75.00
5.00	120	140	120	1.33	90.00
5.20	130	180	130	3.33	39.00
5.40	90	130	90	2.67	33.75
5.60	48	76	48	1.87	25.71
5.80	60	100	60	2.67	22.50
6.00	24	44	24	1.33	18.00
6.20	80	100	80	1.33	60.00
6.40	24	44	24	1.33	18.00
6.60	76	92	76	1.07	71.25
6.80	160	180	160	1.33	120.00
7.00	190	240	190	3.33	57.00
7.20	180	240	180	4.00	45.00
7.40	230	260	230	2.00	115.00
7.60	170	200	170	2.00	85.00
7.80	180	220	180	2.67	67.50
8.00	140	160	140	1.33	105.00
8.20	160	200	160	2.67	60.00
8.40	360	380	360	1.33	270.00
8.60	370	400	370	2.00	185.00
8.80	320	360	320	2.67	120.00
9.00	100	140	100	2.67	37.50
9.20	100	120	100	1.33	75.00
9.40	120	160	120	2.67	45.00
9.60	120	140	120	1.33	90.00
9.80	200	240	200	2.67	75.00
10.00	180	220	180	2.67	67.50
10.20	180	200	180	1.33	135.00
10.40	160	200	160	2.67	60.00
10.60	180	200	180	1.33	135.00
10.80	180	210	180	2.00	90.00
11.00	160	180	160	1.33	120.00
11.20	160	180	160	1.33	120.00
11.40	190	220	190	2.00	95.00
11.60	200	220	200	1.33	150.00
11.80	220	260	220	2.67	82.50
12.00	68	100	68	2.13	31.88
12.20	160	200	160	2.67	60.00
12.40	120	140	120	1.33	90.00
12.60	120	140	120	1.33	90.00
12.80	130	160	130	2.00	65.00
13.00	260	280	260	1.33	195.00
13.20	48	84	48	2.40	20.00
13.40	48	84	48	2.40	20.00
13.60	180	200	180	1.33	135.00
13.80	240	260	240	1.33	180.00
14.00	300	320	300	1.33	225.00
14.20	160	200	160	2.67	60.00
14.40	100	130	100	2.00	50.00
14.60	120	140	120	1.33	90.00
14.80	120	140	120	1.33	90.00
15.00	150	180	150	2.00	75.00

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20	150	180	150	2.00	75.00
15.40	120	140	120	1.33	90.00
15.60	100	120	100	1.33	75.00
15.80	100	120	100	1.33	75.00
16.00	120	140	120	1.33	90.00
16.20	120	140	120	1.33	90.00
16.40	120	140	120	1.33	90.00
16.60	110	120	110	0.67	165.00
16.80	100	120	100	1.33	75.00
17.00	140	160	140	1.33	105.00
17.20	140	160	140	1.33	105.00
17.40	60	80	60	1.33	45.00
17.60	80	100	80	1.33	60.00
17.80	140	160	140	1.33	105.00
18.00	240	260	240	1.33	180.00
18.20	120	140	120	1.33	90.00
18.40	120	140	120	1.33	90.00
18.60	120	150	120	2.00	60.00
18.80	100	120	100	1.33	75.00
19.00	220	260	220	2.67	82.50
19.20	290	320	290	2.00	145.00
19.40	160	200	160	2.67	60.00
19.60	140	160	140	1.33	105.00
19.80	220	240	220	1.33	165.00
20.00	160	180	160	1.33	120.00
20.20	260	280	260	1.33	195.00
20.40	340	380	340	2.67	127.50
20.60	260	300	260	2.67	97.50
20.80	260	300	260	2.67	97.50
21.00	260	320	260	4.00	65.00
21.20	240	280	240	2.67	90.00
21.40	220	280	220	4.00	55.00
21.60	280	320	280	2.67	105.00
21.80	200	220	200	1.33	150.00
22.00	200	240	200	2.67	75.00
22.20	100	120	100	1.33	75.00
22.40	28	64	28	2.40	11.67
22.60	220	240	220	1.33	165.00
22.80	240	260	240	1.33	180.00
23.00	100	140	100	2.67	37.50
23.20	250	280	250	2.00	125.00
23.40	270	320	270	3.33	81.00
23.60	240	260	240	1.33	180.00
23.80	220	260	220	2.67	82.50
24.00	160	210	160	3.33	48.00
24.20	130	160	130	2.00	65.00
24.40	130	170	130	2.67	48.75
24.60	130	160	130	2.00	65.00
24.80	130	160	130	2.00	65.00
25.00	36	64	36	1.87	19.29
25.20	130	160	130	2.00	65.00
25.40	140	180	140	2.67	52.50
25.60	170	180	170	0.67	255.00
25.80	40	68	40	1.87	21.43
26.00	32	48	32	1.07	30.00
26.20	16	32	16	1.07	15.00
26.40	18	32	18	0.93	19.29
26.60	16	32	16	1.07	15.00
26.80	100	120	100	1.33	75.00
27.00	180	220	180	2.67	67.50
27.20	140	180	140	2.67	52.50
27.40	130	160	130	2.00	65.00
27.60	200	240	200	2.67	75.00
27.80	220	260	220	2.67	82.50
28.00	180	240	180	4.00	45.00
28.20	200	240	200	2.67	75.00
28.40	240	280	240	2.67	90.00
28.60	170	210	170	2.67	63.75
28.80	170	210	170	2.67	63.75
29.00	280	330	280	3.33	84.00
29.20	320	360	320	2.67	120.00
29.40	320	380	320	4.00	80.00
29.60	340	400	340	4.00	85.00
29.80	300	360	300	4.00	75.00
30.00	310	360	310	3.33	93.00



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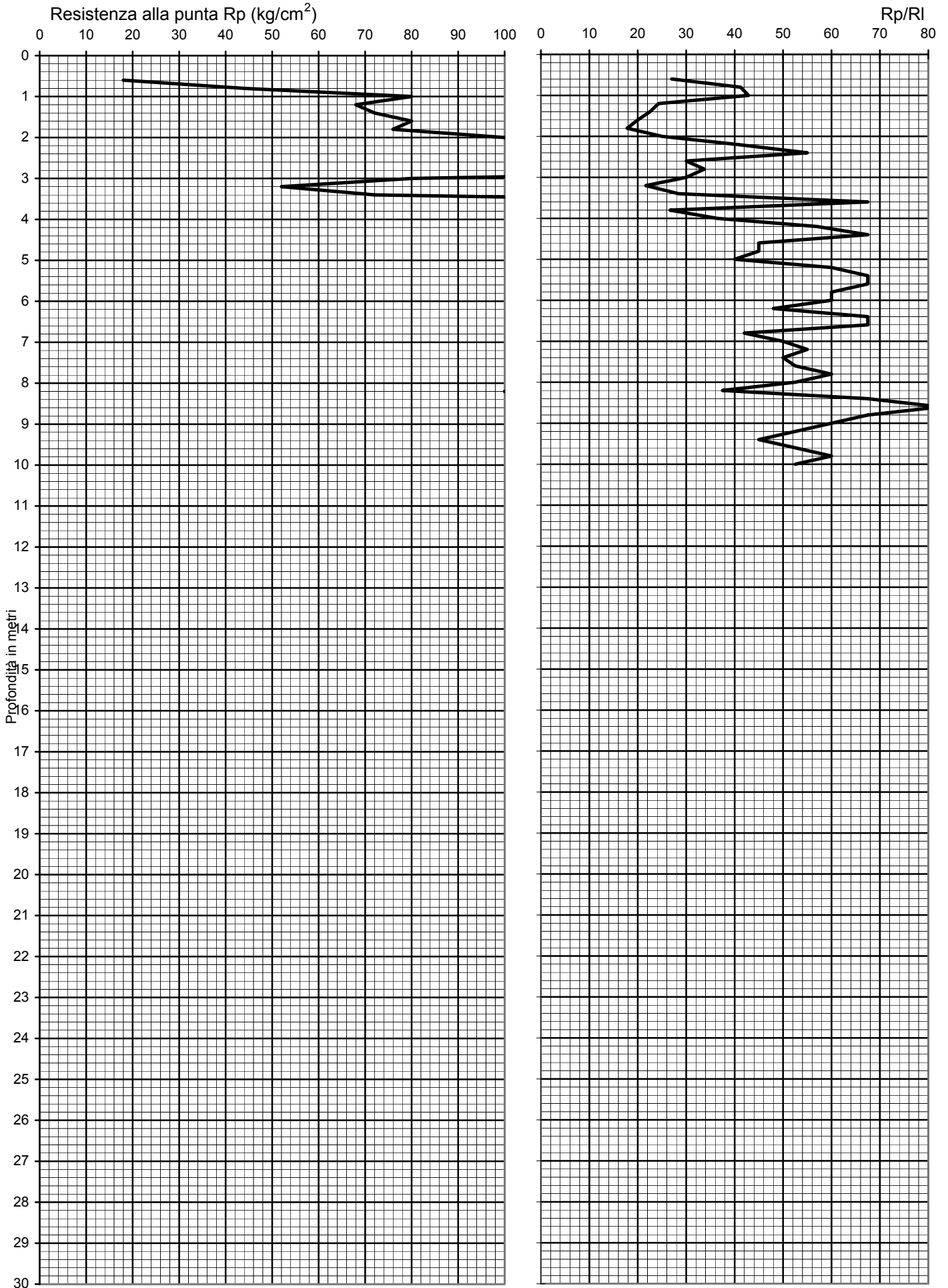
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PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 4
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	18	28	18	0.67	27.00
0.80	44	60	44	1.07	41.25
1.00	80	108	80	1.87	42.86
1.20	68	110	68	2.80	24.29
1.40	72	120	72	3.20	22.50
1.60	80	140	80	4.00	20.00
1.80	76	140	76	4.27	17.81
2.00	100	160	100	4.00	25.00
2.20	190	260	190	4.67	40.71
2.40	220	280	220	4.00	55.00
2.60	200	300	200	6.67	30.00
2.80	180	260	180	5.33	33.75
3.00	80	120	80	2.67	30.00
3.20	52	88	52	2.40	21.67
3.40	72	110	72	2.53	28.42
3.60	180	220	180	2.67	67.50
3.80	160	250	160	6.00	26.67
4.00	170	240	170	4.67	36.43
4.20	190	240	190	3.33	57.00
4.40	180	220	180	2.67	67.50
4.60	180	240	180	4.00	45.00
4.80	180	240	180	4.00	45.00
5.00	160	220	160	4.00	40.00
5.20	160	200	160	2.67	60.00
5.40	180	220	180	2.67	67.50
5.60	180	220	180	2.67	67.50
5.80	160	200	160	2.67	60.00
6.00	160	200	160	2.67	60.00
6.20	160	210	160	3.33	48.00
6.40	180	220	180	2.67	67.50
6.60	180	220	180	2.67	67.50
6.80	140	190	140	3.33	42.00
7.00	200	260	200	4.00	50.00
7.20	220	280	220	4.00	55.00
7.40	200	260	200	4.00	50.00
7.60	140	180	140	2.67	52.50
7.80	160	200	160	2.67	60.00
8.00	140	180	140	2.67	52.50
8.20	100	140	100	2.67	37.50
8.40	180	220	180	2.67	67.50
8.60	220	260	220	2.67	82.50
8.80	180	220	180	2.67	67.50
9.00	160	200	160	2.67	60.00
9.20	140	180	140	2.67	52.50
9.40	120	160	120	2.67	45.00
9.60	140	180	140	2.67	52.50
9.80	160	200	160	2.67	60.00
10.00	140	180	140	2.67	52.50
10.20					
10.40					
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14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
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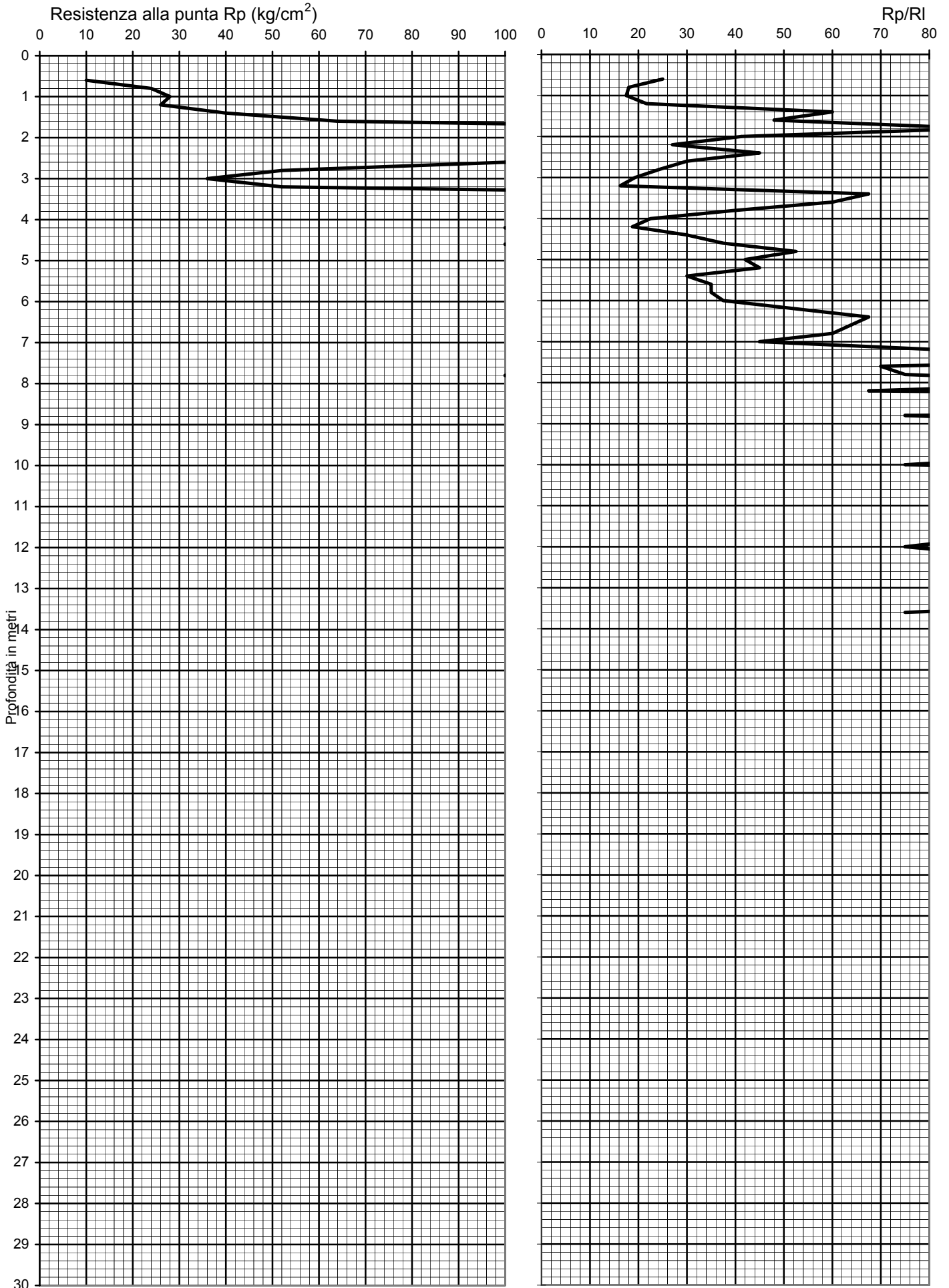
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PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 5
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Note: chiuso e asciutto fino a -3.90 m

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	10	16	10	0.40	25.00
0.80	24	44	24	1.33	18.00
1.00	28	52	28	1.60	17.50
1.20	26	44	26	1.20	21.67
1.40	40	50	40	0.67	60.00
1.60	64	84	64	1.33	48.00
1.80	180	210	180	2.00	90.00
2.00	220	300	220	5.33	41.25
2.20	180	280	180	6.67	27.00
2.40	240	320	240	5.33	45.00
2.60	100	150	100	3.33	30.00
2.80	52	84	52	2.13	24.38
3.00	36	64	36	1.87	19.29
3.20	52	100	52	3.20	16.25
3.40	180	220	180	2.67	67.50
3.60	160	200	160	2.67	60.00
3.80	160	220	160	4.00	40.00
4.00	120	200	120	5.33	22.50
4.20	100	180	100	5.33	18.75
4.40	120	180	120	4.00	30.00
4.60	100	140	100	2.67	37.50
4.80	140	180	140	2.67	52.50
5.00	140	190	140	3.33	42.00
5.20	120	160	120	2.67	45.00
5.40	120	180	120	4.00	30.00
5.60	140	200	140	4.00	35.00
5.80	140	200	140	4.00	35.00
6.00	150	210	150	4.00	37.50
6.20	140	180	140	2.67	52.50
6.40	180	220	180	2.67	67.50
6.60	170	210	170	2.67	63.75
6.80	160	200	160	2.67	60.00
7.00	150	200	150	3.33	45.00
7.20	220	260	220	2.67	82.50
7.40	200	220	200	1.33	150.00
7.60	140	170	140	2.00	70.00
7.80	100	120	100	1.33	75.00
8.00	160	180	160	1.33	120.00
8.20	180	220	180	2.67	67.50
8.40	320	340	320	1.33	240.00
8.60	320	340	320	1.33	240.00
8.80	150	180	150	2.00	75.00
9.00	160	180	160	1.33	120.00
9.20	120	140	120	1.33	90.00
9.40	120	140	120	1.33	90.00
9.60	110	130	110	1.33	82.50
9.80	140	160	140	1.33	105.00
10.00	150	180	150	2.00	75.00
10.20	220	240	220	1.33	165.00
10.40	370	400	370	2.00	185.00
10.60	320	340	320	1.33	240.00
10.80	290	320	290	2.00	145.00
11.00	340	360	340	1.33	255.00
11.20	320	360	320	2.67	120.00
11.40	360	420	360	4.00	90.00
11.60	400	470	400	4.67	85.71
11.80	240	280	240	2.67	90.00
12.00	200	240	200	2.67	75.00
12.20	250	290	250	2.67	93.75
12.40	300	340	300	2.67	112.50
12.60	320	360	320	2.67	120.00
12.80	380	420	380	2.67	142.50
13.00	360	400	360	2.67	135.00
13.20	340	360	340	1.33	255.00
13.40	400	450	400	3.33	120.00
13.60	400	480	400	5.33	75.00
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
16.40					
16.60					
16.80					
17.00					
17.20					
17.40					
17.60					
17.80					
18.00					
18.20					
18.40					
18.60					
18.80					
19.00					
19.20					
19.40					
19.60					
19.80					
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20.80					
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22.00					
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28.60					
28.80					
29.00					
29.20					
29.40					
29.60					
29.80					
30.00					



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

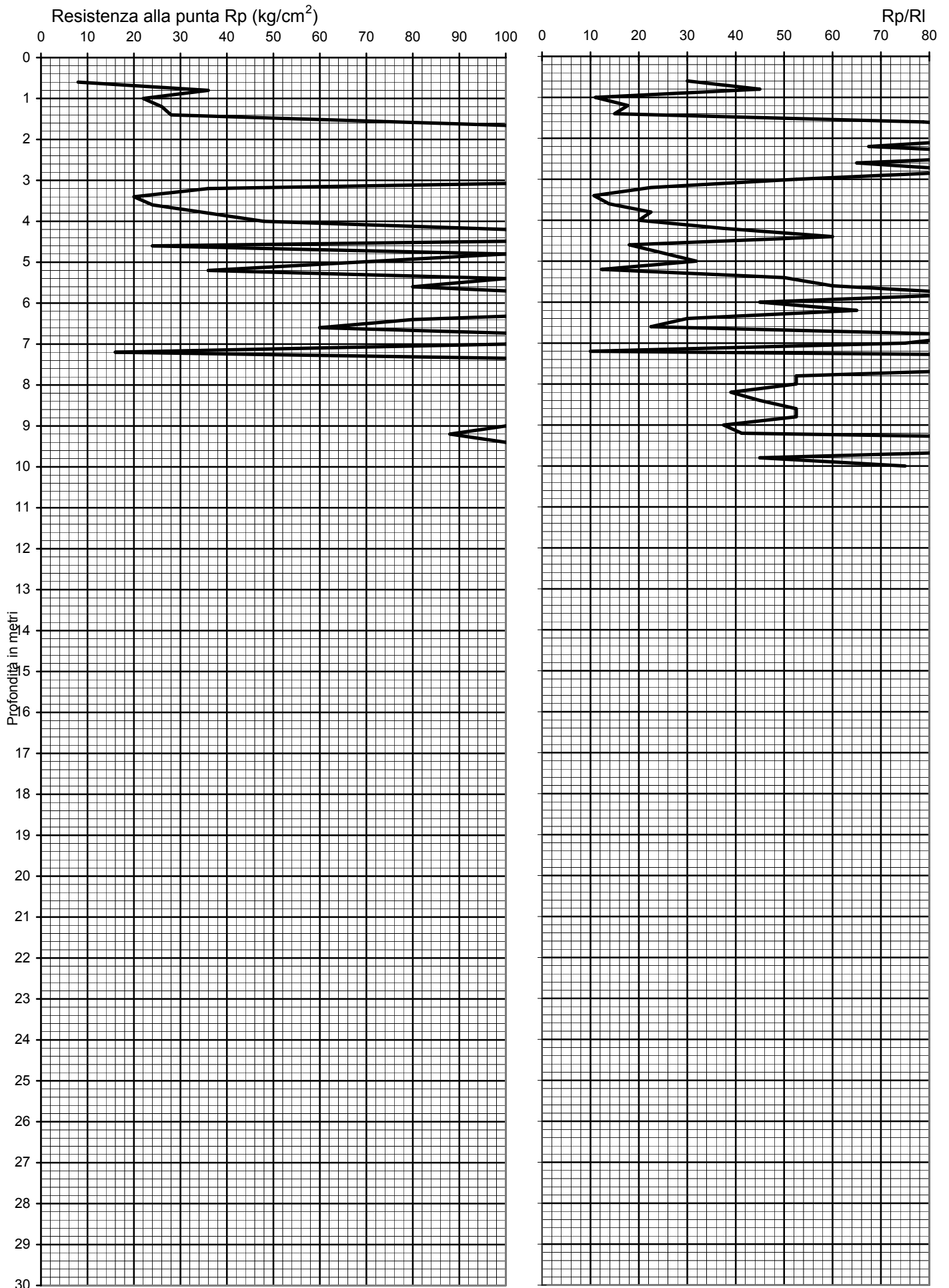
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PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 6
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.



Note: chiuso e asciutto fino a -3.90 m

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	8	12	8	0.27	30.00
0.80	36	48	36	0.80	45.00
1.00	22	52	22	2.00	11.00
1.20	26	48	26	1.47	17.73
1.40	28	56	28	1.87	15.00
1.60	84	100	84	1.07	78.75
1.80	140	160	140	1.33	105.00
2.00	190	220	190	2.00	95.00
2.20	180	220	180	2.67	67.50
2.40	280	320	280	2.67	105.00
2.60	260	320	260	4.00	65.00
2.80	300	350	300	3.33	90.00
3.00	140	180	140	2.67	52.50
3.20	36	60	36	1.60	22.50
3.40	20	48	20	1.87	10.71
3.60	24	50	24	1.73	13.85
3.80	36	60	36	1.60	22.50
4.00	48	84	48	2.40	20.00
4.20	100	140	100	2.67	37.50
4.40	160	200	160	2.67	60.00
4.60	24	44	24	1.33	18.00
4.80	100	160	100	4.00	25.00
5.00	68	100	68	2.13	31.88
5.20	36	80	36	2.93	12.27
5.40	100	130	100	2.00	50.00
5.60	80	100	80	1.33	60.00
5.80	120	140	120	1.33	90.00
6.00	120	160	120	2.67	45.00
6.20	130	160	130	2.00	65.00
6.40	80	120	80	2.67	30.00
6.60	60	100	60	2.67	22.50
6.80	120	140	120	1.33	90.00
7.00	100	120	100	1.33	75.00
7.20	16	40	16	1.60	10.00
7.40	130	140	130	0.67	195.00
7.60	140	160	140	1.33	105.00
7.80	140	180	140	2.67	52.50
8.00	140	180	140	2.67	52.50
8.20	130	180	130	3.33	39.00
8.40	150	200	150	3.33	45.00
8.60	140	180	140	2.67	52.50
8.80	140	180	140	2.67	52.50
9.00	100	140	100	2.67	37.50
9.20	88	120	88	2.13	41.25
9.40	100	110	100	0.67	150.00
9.60	140	160	140	1.33	105.00
9.80	180	240	180	4.00	45.00
10.00	150	180	150	2.00	75.00
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
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13.40					
13.60					
13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
16.40					
16.60					
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29.80					
30.00					



Via AUSTRIA, 24 - 41100 MODENA

Telefono 059/313999

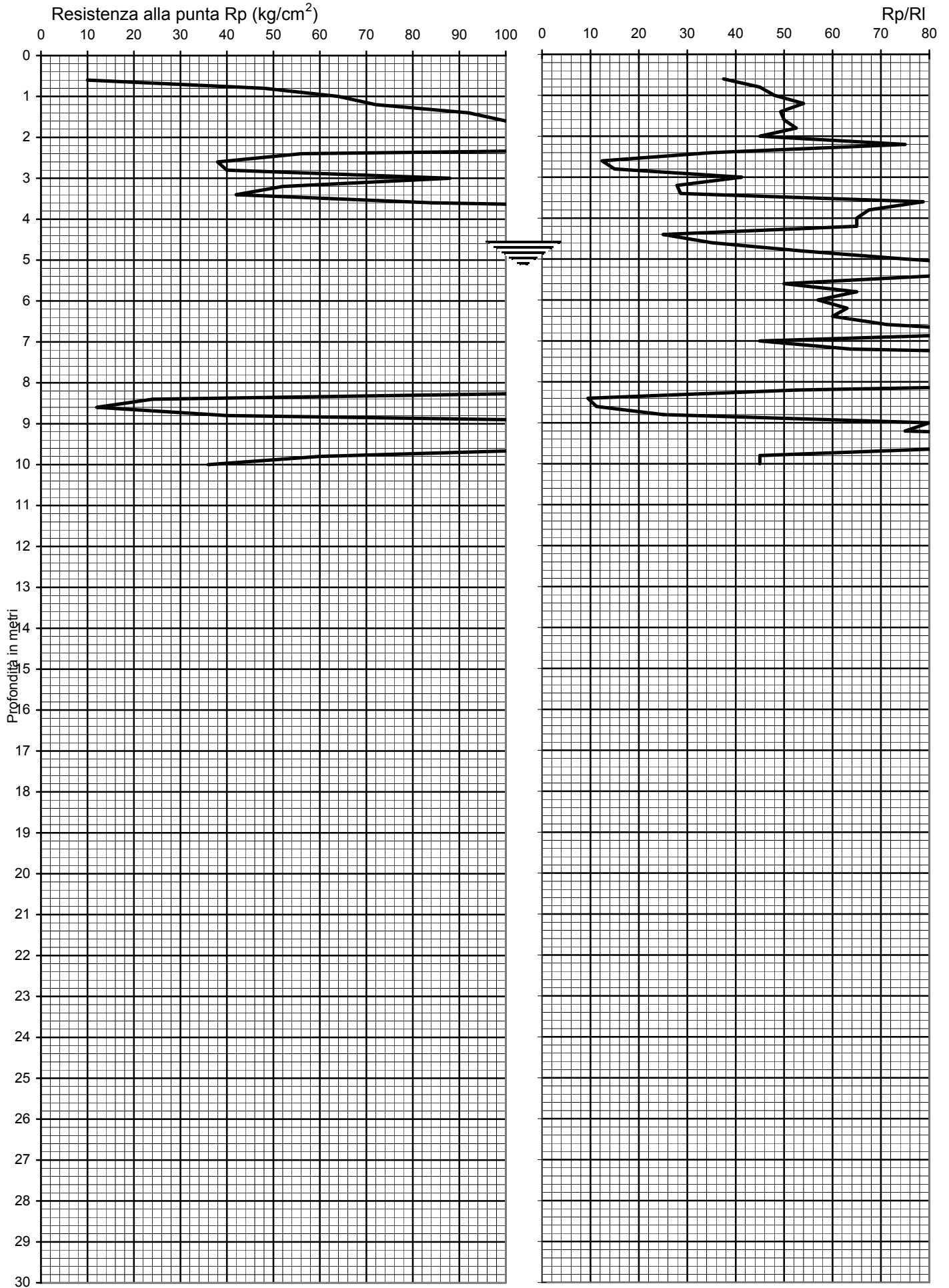
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PROVA PENETROMETRICA STATICA

Penetrometro Gouda

Committente : C/O DOTT. CALEFFI CARLO
Località : PL 609 A LEVATA CURTATONE (MN)
Prova numero : 7
Data : 18/01/2007
Operatore : DR. REBECCHI
Quota : P.C.





Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
0.20					
0.40					
0.60	10	14	10	0.27	37.50
0.80	48	64	48	1.07	45.00
1.00	64	84	64	1.33	48.00
1.20	72	92	72	1.33	54.00
1.40	92	120	92	1.87	49.29
1.60	100	130	100	2.00	50.00
1.80	140	180	140	2.67	52.50
2.00	150	200	150	3.33	45.00
2.20	200	240	200	2.67	75.00
2.40	56	80	56	1.60	35.00
2.60	38	84	38	3.07	12.39
2.80	40	80	40	2.67	15.00
3.00	88	120	88	2.13	41.25
3.20	52	80	52	1.87	27.86
3.40	42	64	42	1.47	28.64
3.60	84	100	84	1.07	78.75
3.80	180	220	180	2.67	67.50
4.00	260	320	260	4.00	65.00
4.20	260	320	260	4.00	65.00
4.40	200	320	200	8.00	25.00
4.60	210	300	210	6.00	35.00
4.80	250	320	250	4.67	53.57
5.00	200	240	200	2.67	75.00
5.20	270	310	270	2.67	101.25
5.40	220	260	220	2.67	82.50
5.60	200	260	200	4.00	50.00
5.80	260	320	260	4.00	65.00
6.00	190	240	190	3.33	57.00
6.20	210	260	210	3.33	63.00
6.40	160	200	160	2.67	60.00
6.60	190	230	190	2.67	71.25
6.80	200	230	200	2.00	100.00
7.00	120	160	120	2.67	45.00
7.20	170	210	170	2.67	63.75
7.40	300	330	300	2.00	150.00
7.60	320	370	320	3.33	96.00
7.80	360	420	360	4.00	90.00
8.00	290	320	290	2.00	145.00
8.20	140	180	140	2.67	52.50
8.40	24	62	24	2.53	9.47
8.60	12	28	12	1.07	11.25
8.80	40	64	40	1.60	25.00
9.00	160	190	160	2.00	80.00
9.20	150	180	150	2.00	75.00
9.40	180	200	180	1.33	135.00
9.60	120	140	120	1.33	90.00
9.80	60	80	60	1.33	45.00
10.00	36	48	36	0.80	45.00
10.20					
10.40					
10.60					
10.80					
11.00					
11.20					
11.40					
11.60					
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13.80					
14.00					
14.20					
14.40					
14.60					
14.80					
15.00					

Prof. (m)	P (kg/cm ²)	P + L (kg/cm ²)	Rp (kg/cm ²)	RI (kg/cm ²)	Rp/RI [-]
15.20					
15.40					
15.60					
15.80					
16.00					
16.20					
16.40					
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16.80					
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29.60					
29.80					
30.00					



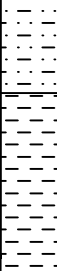
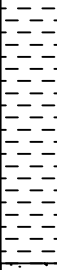
CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2


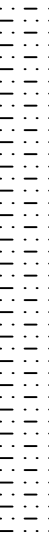
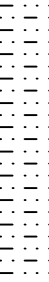
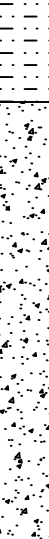
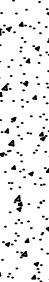

CODICE SONDAGGI DA E1 a E5

Località Strada S.P. 57


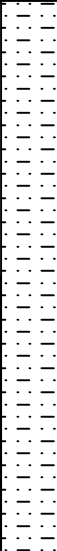


var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pozz. pen.	Prova Perm.
					prof.	colpi		
	0.50			Terreno agrario bruno con presenza di radici.				
			C1E1	Sabbia medio-fine, grigia, nocciola all'alterazione, debolmente umida. Emergenze idriche dalle pareti dello scavo a partire da 2.90 m da p.c.				
	3.00							

fine sondaggio

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Podat. pen.	Prova Perm.
					prof.	colpi		
	0.50			<i>Terreno agrario limo-argilloso grigio nocciola.</i>				
	1.20		C2E2	<i>Limo debolmente argilloso, asciutto, color nocciola.</i>			>6	
	2.00		C3E2	<i>Sottill alternanze limo-argillose, da umide a debolmente umide, marrone scuro, con presenza di concrezioni calcaree (Castracan).</i>			>6	
	3.00		C4E2	<i>Sabbia limosa e sabbia debolmente limosa, umida, grigio-nocciola.</i>			>6	
				<i>fine sondaggio</i>				

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pocket pen.	Prove Perm.
					prof.	colpi		
0.50				<i>Terreno agrario, asciutto, bruno, con presenza di materiale organico.</i>				
			C5E3	<i>Limo argilloso, da umido a debolmente umido.</i>			2.0	
							2.1	
1.70							2.1	
			C6E3	<i>Sabbia media, da umida a debolmente umida, grigio-nocciola. Emergenze idriche dalle pareti dello scavo a partire da 2.8 m da p.c.</i>				
3.00								
				<i>fine sondaggio</i>				

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Pocket pen.	Prova Perm.
					prof.	colpi		
0.50				<i>Terreno agrario, asciutto, con presenza di materiale organico.</i>				
1.40				<i>Alternanze millimetriche limo-argillose, debolmente umide, nocciola, con presenza di concrezioni calcaree (Castracan).</i>			>6	
2.00				<i>Sabbia limosa e limo sabbioso, da debolmente umida a umida, grigio-nocciola.</i>			>6	
3.00				<i>Sabbia fine grigio, umida, nocciola. Emergenze idriche dalle pareti dello scavo a partire da 2.7 m da p.c.</i>			>6	
				<i>fine sondaggio</i>				

var. strat.	m	Litol.	Camp.	Descrizione litologia	SPT		Podat. pen.	Prova Perm.
					prof.	colpi		
	0.50			Terreno agrario, asciutto, bruno, con presenza di materiale organico.				
	1.60		C7E5	Limo argilloso e argilla limosa, da asciutta a debolmente umida, nocciola.			>6	>6
	2.40			Sabbia limosa e limo sabbioso, da debolmente umida a umida, grigio-nocciola.				>6
	3.00			Sabbia fine grigio, umida, grigio-nocciola. Emergenze idriche dalle pareti dello scavo a partire da 2.8 m da p.c.				
				<i>fine sondaggio</i>				

CON RIFERIMENTO ALLE TAV. G.2.1 – G.2.2

CODICE SONDAGGI DA P1 a P4

Località Strada S.P. 57

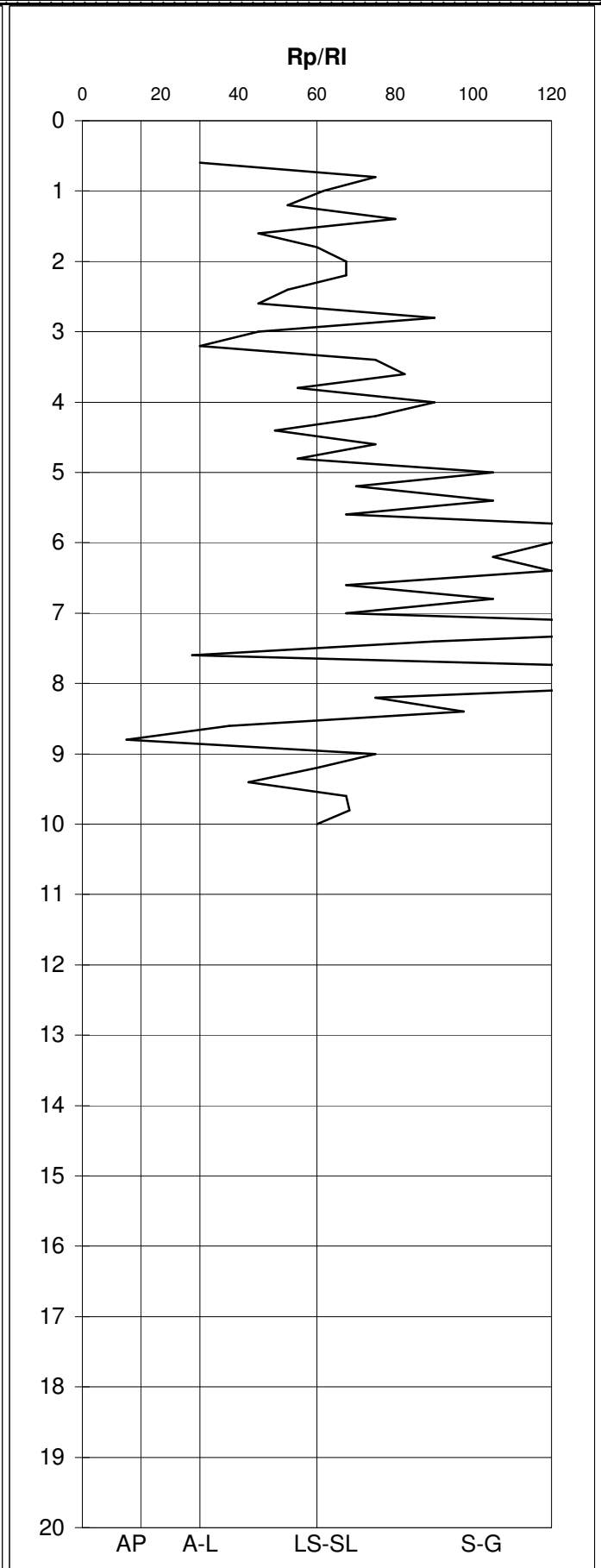
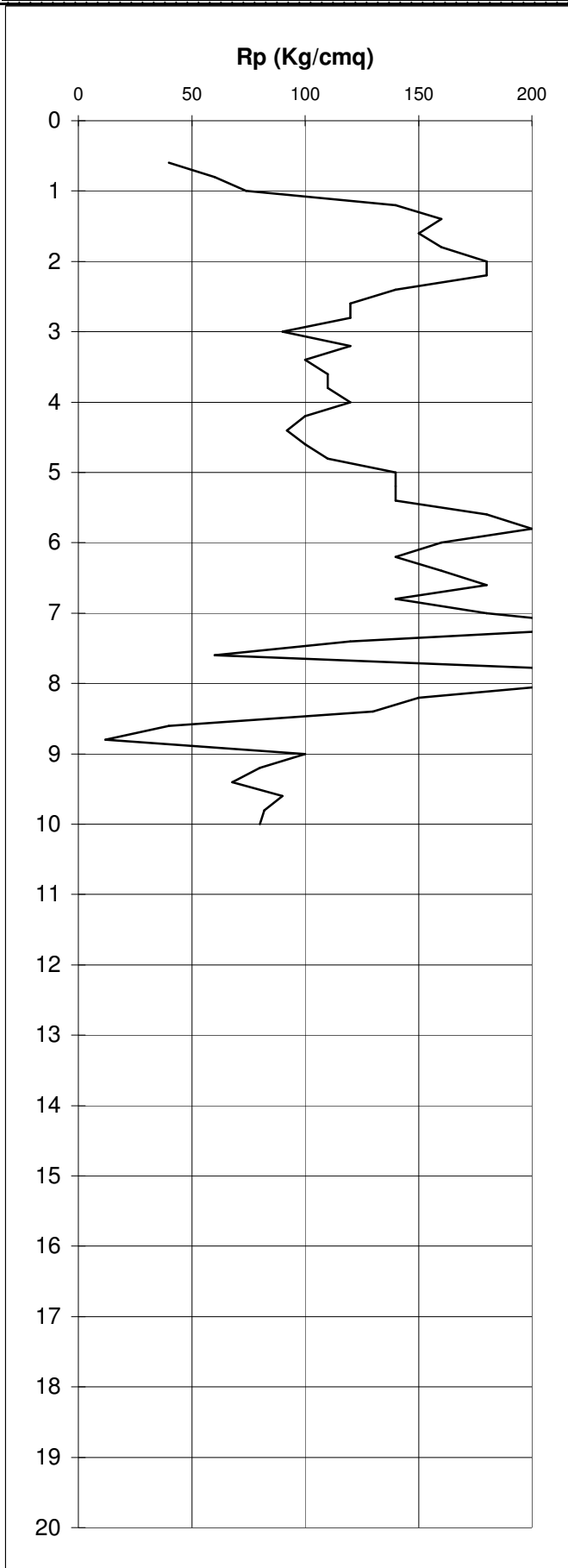
Prova n°							
Comune							
Cantiere							
P1							
Curtatone							
Quota p.c.							
SP 57							
pag. 1							
Prof. m	P Kg/cmq	P+L Kg/cmq	Rt Kg/cmq	Rp Kg/cmq	RI Kg/cmq	Rp/RI	litologia (A.G.I. 1977)
0.0							
0.2							
0.4							
0.6	40	60		40	1.33	30	argille e limi
0.8	60	72		60	0.80	75	sabbie e ghiaie
1.0	74	92		74	1.20	62	sabbie e ghiaie
1.2	140	180		140	2.67	53	sabbie lim. e limi sabb.
1.4	160	190		160	2.00	80	sabbie e ghiaie
1.6	150	200		150	3.33	45	sabbie lim. e limi sabb.
1.8	160	200		160	2.67	60	sabbie lim. e limi sabb.
2.0	180	220		180	2.67	68	sabbie e ghiaie
2.2	180	220		180	2.67	68	sabbie e ghiaie
2.4	140	180		140	2.67	53	sabbie lim. e limi sabb.
2.6	120	160		120	2.67	45	sabbie lim. e limi sabb.
2.8	120	140		120	1.33	90	sabbie e ghiaie
3.0	90	120		90	2.00	45	sabbie lim. e limi sabb.
3.2	120	180		120	4.00	30	argille e limi
3.4	100	120		100	1.33	75	sabbie e ghiaie
3.6	110	130		110	1.33	83	sabbie e ghiaie
3.8	110	140		110	2.00	55	sabbie lim. e limi sabb.
4.0	120	140		120	1.33	90	sabbie e ghiaie
4.2	100	120		100	1.33	75	sabbie e ghiaie
4.4	92	120		92	1.87	49	sabbie lim. e limi sabb.
4.6	100	120		100	1.33	75	sabbie e ghiaie
4.8	110	140		110	2.00	55	sabbie lim. e limi sabb.
5.0	140	160		140	1.33	105	sabbie e ghiaie
5.2	140	170		140	2.00	70	sabbie e ghiaie
5.4	140	160		140	1.33	105	sabbie e ghiaie
5.6	180	220		180	2.67	68	sabbie e ghiaie
5.8	200	220		200	1.33	150	sabbie e ghiaie
6.0	160	180		160	1.33	120	sabbie e ghiaie
6.2	140	160		140	1.33	105	sabbie e ghiaie
6.4	160	180		160	1.33	120	sabbie e ghiaie
6.6	180	220		180	2.67	68	sabbie e ghiaie
6.8	140	160		140	1.33	105	sabbie e ghiaie
7.0	180	220		180	2.67	68	sabbie e ghiaie
7.2	240	260		240	1.33	180	sabbie e ghiaie
7.4	120	140		120	1.33	90	sabbie e ghiaie
7.6	60	92		60	2.13	28	argille e limi
7.8	220	240		220	1.33	165	sabbie e ghiaie
8.0	220	240		220	1.33	165	sabbie e ghiaie
8.2	150	180		150	2.00	75	sabbie e ghiaie
8.4	130	150		130	1.33	98	sabbie e ghiaie
8.6	40	56		40	1.07	38	sabbie lim. e limi sabb.
8.8	12	28		12	1.07	11	argille plastiche
9.0	100	120		100	1.33	75	sabbie e ghiaie
9.2	80	100		80	1.33	60	sabbie lim. e limi sabb.
9.4	68	92		68	1.60	43	sabbie lim. e limi sabb.
9.6	90	110		90	1.33	68	sabbie e ghiaie
9.8	82	100		82	1.20	68	sabbie e ghiaie
10.0	80	100		80	1.33	60	sabbie lim. e limi sabb.

Prova n°
Comune
Cantiere

P1
Curtatone
SP 57

Quota p.c.

pag.2



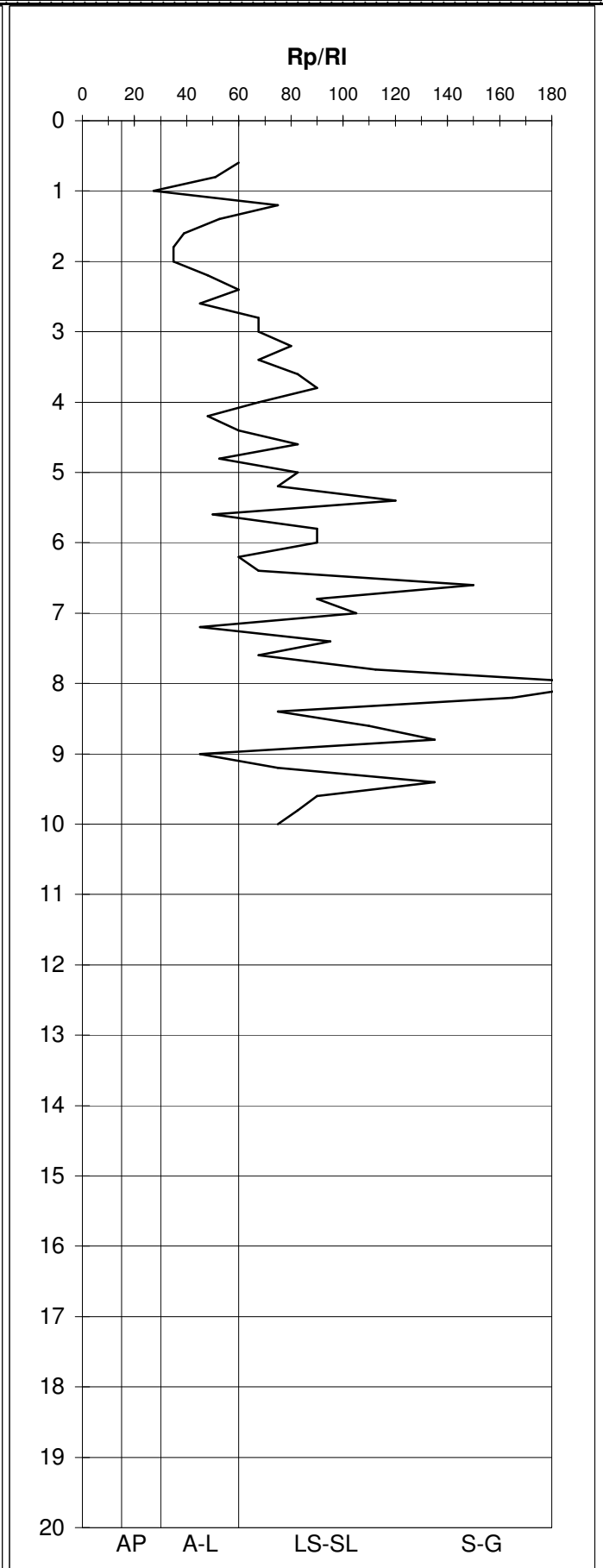
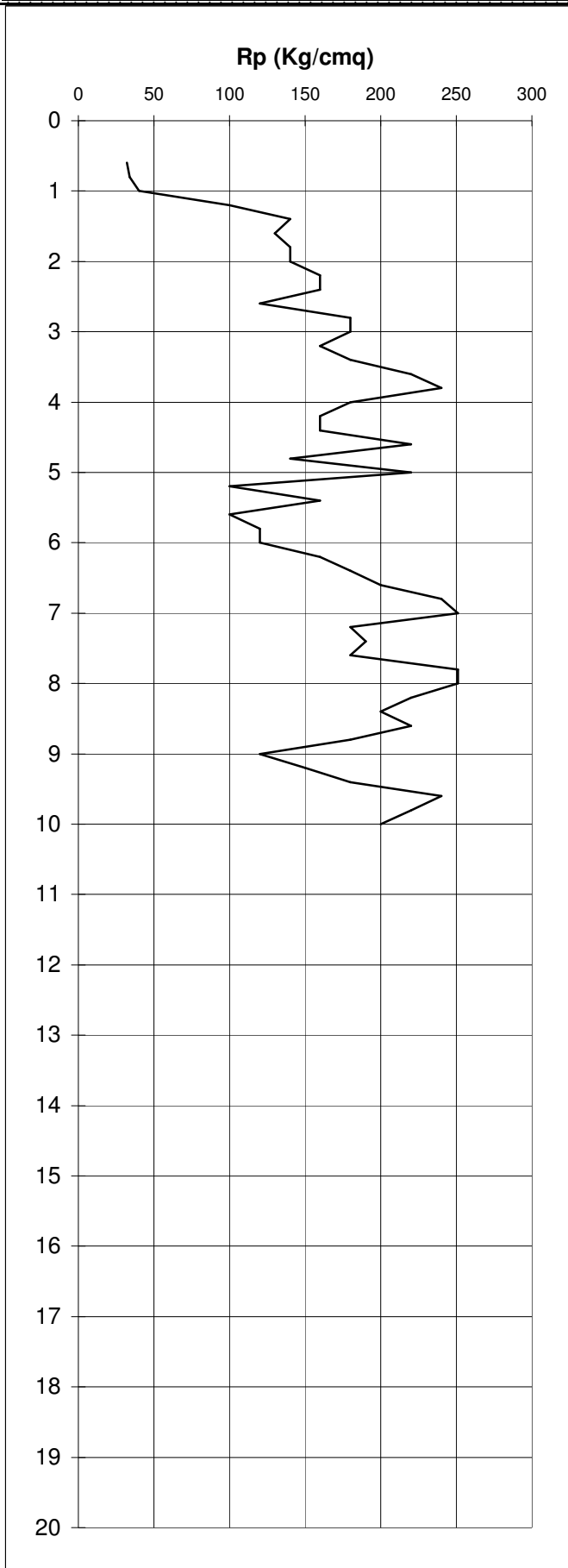
Prova n°							
Comune							
Cantiere							
P2							
Curtatone							
Quota p.c.							
SP 57							
pag. 1							
Prof. m	P Kg/cmq	P+L Kg/cmq	Rt Kg/cmq	Rp Kg/cmq	RI Kg/cmq	Rp/RI	litologia (A.G.I. 1977)
0.0							
0.2							
0.4							
0.6	32	40		32	0.53	60	sabbie lim. e limi sabb.
0.8	34	44		34	0.67	51	sabbie lim. e limi sabb.
1.0	40	62		40	1.47	27	argille e limi
1.2	100	120		100	1.33	75	sabbie e ghiaie
1.4	140	180		140	2.67	53	sabbie lim. e limi sabb.
1.6	130	180		130	3.33	39	sabbie lim. e limi sabb.
1.8	140	200		140	4.00	35	sabbie lim. e limi sabb.
2.0	140	200		140	4.00	35	sabbie lim. e limi sabb.
2.2	160	210		160	3.33	48	sabbie lim. e limi sabb.
2.4	160	200		160	2.67	60	sabbie lim. e limi sabb.
2.6	120	160		120	2.67	45	sabbie lim. e limi sabb.
2.8	180	220		180	2.67	68	sabbie e ghiaie
3.0	180	220		180	2.67	68	sabbie e ghiaie
3.2	160	190		160	2.00	80	sabbie e ghiaie
3.4	180	220		180	2.67	68	sabbie e ghiaie
3.6	220	260		220	2.67	83	sabbie e ghiaie
3.8	240	280		240	2.67	90	sabbie e ghiaie
4.0	180	220		180	2.67	68	sabbie e ghiaie
4.2	160	210		160	3.33	48	sabbie lim. e limi sabb.
4.4	160	200		160	2.67	60	sabbie lim. e limi sabb.
4.6	220	260		220	2.67	83	sabbie e ghiaie
4.8	140	180		140	2.67	53	sabbie lim. e limi sabb.
5.0	220	260		220	2.67	83	sabbie e ghiaie
5.2	100	120		100	1.33	75	sabbie e ghiaie
5.4	160	180		160	1.33	120	sabbie e ghiaie
5.6	100	130		100	2.00	50	sabbie lim. e limi sabb.
5.8	120	140		120	1.33	90	sabbie e ghiaie
6.0	120	140		120	1.33	90	sabbie e ghiaie
6.2	160	200		160	2.67	60	sabbie lim. e limi sabb.
6.4	180	220		180	2.67	68	sabbie e ghiaie
6.6	200	220		200	1.33	150	sabbie e ghiaie
6.8	240	280		240	2.67	90	sabbie e ghiaie
7.0	280	320		280	2.67	105	sabbie e ghiaie
7.2	180	240		180	4.00	45	sabbie lim. e limi sabb.
7.4	190	220		190	2.00	95	sabbie e ghiaie
7.6	180	220		180	2.67	68	sabbie e ghiaie
7.8	300	340		300	2.67	113	sabbie e ghiaie
8.0	320	340		320	1.33	240	sabbie e ghiaie
8.2	220	240		220	1.33	165	sabbie e ghiaie
8.4	200	240		200	2.67	75	sabbie e ghiaie
8.6	220	250		220	2.00	110	sabbie e ghiaie
8.8	180	200		180	1.33	135	sabbie e ghiaie
9.0	120	160		120	2.67	45	sabbie lim. e limi sabb.
9.2	150	180		150	2.00	75	sabbie e ghiaie
9.4	180	200		180	1.33	135	sabbie e ghiaie
9.6	240	280		240	2.67	90	sabbie e ghiaie
9.8	220	260		220	2.67	83	sabbie e ghiaie
10.0	200	240		200	2.67	75	sabbie e ghiaie

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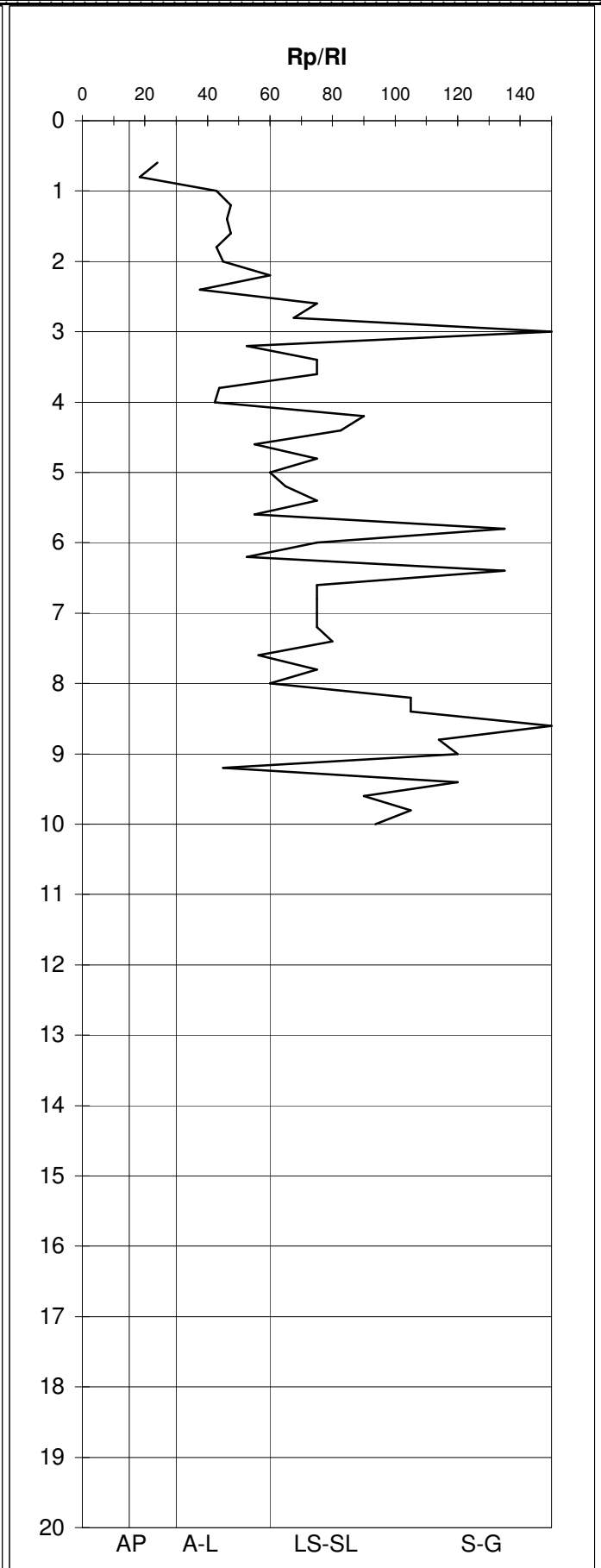
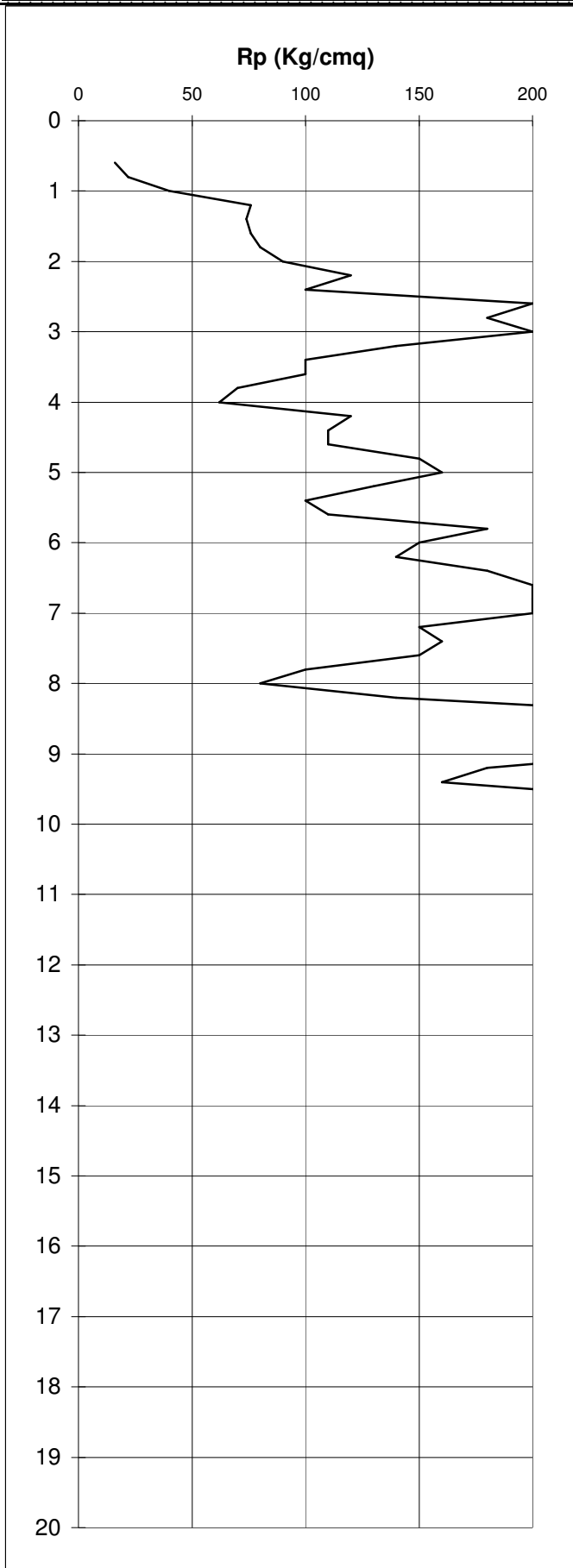
Prof. m	P Kg/cmq	P+L Kg/cmq	Rt Kg/cmq	Rp Kg/cmq	RI Kg/cmq	Rp/RI	litologia (A.G.I. 1977)
0.0							
0.2							
0.4							
0.6	16	26		16	0.67	24	argille e limi
0.8	22	40		22	1.20	18	argille e limi
1.0	40	54		40	0.93	43	sabbie lim. e limi sabb.
1.2	76	100		76	1.60	48	sabbie lim. e limi sabb.
1.4	74	98		74	1.60	46	sabbie lim. e limi sabb.
1.6	76	100		76	1.60	48	sabbie lim. e limi sabb.
1.8	80	108		80	1.87	43	sabbie lim. e limi sabb.
2.0	90	120		90	2.00	45	sabbie lim. e limi sabb.
2.2	120	150		120	2.00	60	sabbie lim. e limi sabb.
2.4	100	140		100	2.67	38	sabbie lim. e limi sabb.
2.6	200	240		200	2.67	75	sabbie e ghiaie
2.8	180	220		180	2.67	68	sabbie e ghiaie
3.0	200	220		200	1.33	150	sabbie e ghiaie
3.2	140	180		140	2.67	53	sabbie lim. e limi sabb.
3.4	100	120		100	1.33	75	sabbie e ghiaie
3.6	100	120		100	1.33	75	sabbie e ghiaie
3.8	70	94		70	1.60	44	sabbie lim. e limi sabb.
4.0	62	84		62	1.47	42	sabbie lim. e limi sabb.
4.2	120	140		120	1.33	90	sabbie e ghiaie
4.4	110	130		110	1.33	83	sabbie e ghiaie
4.6	110	140		110	2.00	55	sabbie lim. e limi sabb.
4.8	150	180		150	2.00	75	sabbie e ghiaie
5.0	160	200		160	2.67	60	sabbie lim. e limi sabb.
5.2	130	160		130	2.00	65	sabbie e ghiaie
5.4	100	120		100	1.33	75	sabbie e ghiaie
5.6	110	140		110	2.00	55	sabbie lim. e limi sabb.
5.8	180	200		180	1.33	135	sabbie e ghiaie
6.0	150	180		150	2.00	75	sabbie e ghiaie
6.2	140	180		140	2.67	53	sabbie lim. e limi sabb.
6.4	180	200		180	1.33	135	sabbie e ghiaie
6.6	200	240		200	2.67	75	sabbie e ghiaie
6.8	200	240		200	2.67	75	sabbie e ghiaie
7.0	200	240		200	2.67	75	sabbie e ghiaie
7.2	150	180		150	2.00	75	sabbie e ghiaie
7.4	160	190		160	2.00	80	sabbie e ghiaie
7.6	150	190		150	2.67	56	sabbie lim. e limi sabb.
7.8	100	120		100	1.33	75	sabbie e ghiaie
8.0	80	100		80	1.33	60	sabbie lim. e limi sabb.
8.2	140	160		140	1.33	105	sabbie e ghiaie
8.4	280	320		280	2.67	105	sabbie e ghiaie
8.6	400	440		400	2.67	150	sabbie e ghiaie
8.8	380	430		380	3.33	114	sabbie e ghiaie
9.0	320	360		320	2.67	120	sabbie e ghiaie
9.2	180	240		180	4.00	45	sabbie lim. e limi sabb.
9.4	160	180		160	1.33	120	sabbie e ghiaie
9.6	240	280		240	2.67	90	sabbie e ghiaie
9.8	280	320		280	2.67	105	sabbie e ghiaie
10.0	250	290		250	2.67	94	sabbie e ghiaie

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Prof. m	P Kg/cmq	P+L Kg/cmq	Rt Kg/cmq	Rp Kg/cmq	RI Kg/cmq	Rp/RI	litologia (A.G.I. 1977)
0.0							
0.2							
0.4							
0.6	26	42		26	1.07	24	argille e limi
0.8	54	90		54	2.40	23	argille e limi
1.0	72	110		72	2.53	28	argille e limi
1.2	58	92		58	2.27	26	argille e limi
1.4	140	170		140	2.00	70	sabbie e ghiaie
1.6	120	160		120	2.67	45	sabbie lim. e limi sabb.
1.8	130	180		130	3.33	39	sabbie lim. e limi sabb.
2.0	160	200		160	2.67	60	sabbie lim. e limi sabb.
2.2	140	180		140	2.67	53	sabbie lim. e limi sabb.
2.4	140	180		140	2.67	53	sabbie lim. e limi sabb.
2.6	120	160		120	2.67	45	sabbie lim. e limi sabb.
2.8	120	160		120	2.67	45	sabbie lim. e limi sabb.
3.0	120	160		120	2.67	45	sabbie lim. e limi sabb.
3.2	100	130		100	2.00	50	sabbie lim. e limi sabb.
3.4	64	90		64	1.73	37	sabbie lim. e limi sabb.
3.6	66	94		66	1.87	35	sabbie lim. e limi sabb.
3.8	80	100		80	1.33	60	sabbie lim. e limi sabb.
4.0	80	100		80	1.33	60	sabbie lim. e limi sabb.
4.2	160	180		160	1.33	120	sabbie e ghiaie
4.4	160	190		160	2.00	80	sabbie e ghiaie
4.6	170	200		170	2.00	85	sabbie e ghiaie
4.8	140	180		140	2.67	53	sabbie lim. e limi sabb.
5.0	160	190		160	2.00	80	sabbie e ghiaie
5.2	140	160		140	1.33	105	sabbie e ghiaie
5.4	140	160		140	1.33	105	sabbie e ghiaie
5.6	110	130		110	1.33	83	sabbie e ghiaie
5.8	100	120		100	1.33	75	sabbie e ghiaie
6.0	150	180		150	2.00	75	sabbie e ghiaie
6.2	260	300		260	2.67	98	sabbie e ghiaie
6.4	280	320		280	2.67	105	sabbie e ghiaie
6.6	260	300		260	2.67	98	sabbie e ghiaie
6.8	240	280		240	2.67	90	sabbie e ghiaie
7.0	260	300		260	2.67	98	sabbie e ghiaie
7.2	160	200		160	2.67	60	sabbie lim. e limi sabb.
7.4	80	100		80	1.33	60	sabbie lim. e limi sabb.
7.6	58	74		58	1.07	54	sabbie lim. e limi sabb.
7.8	66	86		66	1.33	50	sabbie lim. e limi sabb.
8.0	80	100		80	1.33	60	sabbie lim. e limi sabb.
8.2	120	140		120	1.33	90	sabbie e ghiaie
8.4	200	220		200	1.33	150	sabbie e ghiaie
8.6	160	200		160	2.67	60	sabbie lim. e limi sabb.
8.8	140	180		140	2.67	53	sabbie lim. e limi sabb.
9.0	200	230		200	2.00	100	sabbie e ghiaie
9.2	160	200		160	2.67	60	sabbie lim. e limi sabb.
9.4	200	220		200	1.33	150	sabbie e ghiaie
9.6	220	280		220	4.00	55	sabbie lim. e limi sabb.
9.8	120	140		120	1.33	90	sabbie e ghiaie
10.0	80	100		80	1.33	60	sabbie lim. e limi sabb.

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