

가
N

1994

(PDA, Pile Driving Analyser)

CAPWAP(Case Pile Wave Analysis Programme)

가
가

2.

가

(Endo et al, 1969),

(Fellenius and Broms, 1969),

가

2

(Secondary

consolidation) (Walker and Darvall, 1973)

가

1

2

가

가 15 m

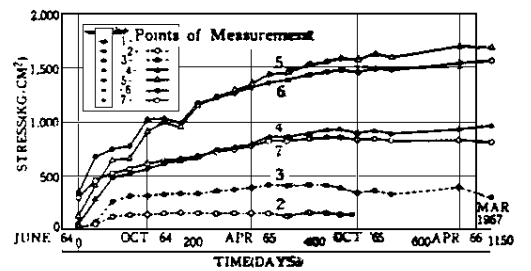
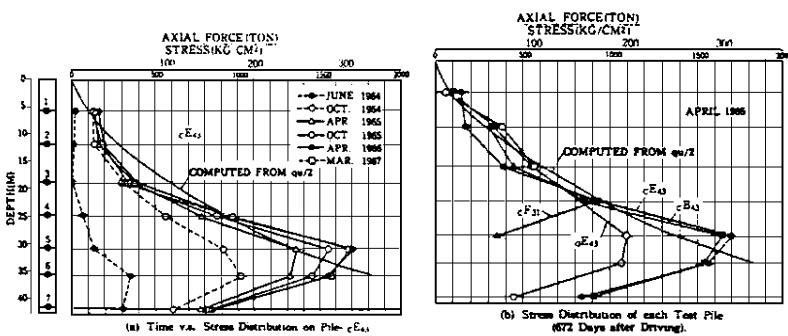
가

가

[1] Endo et al(1969)

1964 6

가



[1]

(Endo et al, 1969)

가

. Schmertmann(1991)

(Svinkin et al, 1994)

가 (, 1995).

가가

ageing effect

가

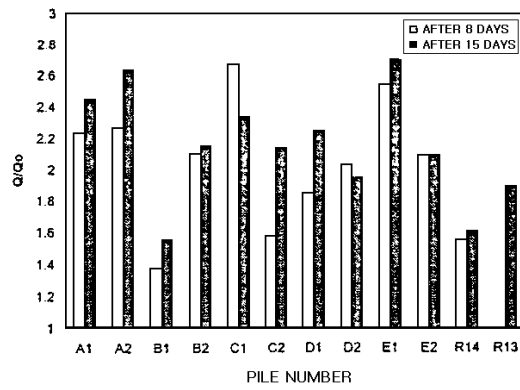
가
(Yang, 1970).

가

가 . [2]

8 15

가



[2] 가(, 1995)

가

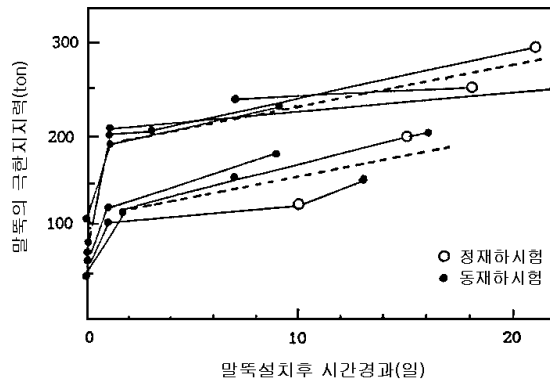
가

[3]

가

(Fellenius et al,

1989).



[3]

가(Fellenius et al, 1989)

2 , 가 가 , 1 , 가 가

(EOID, End of initial driving)

(Restrike)

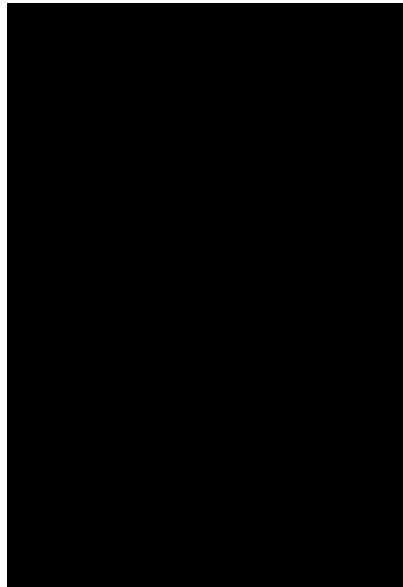
가 가 (, 1991)

3.

[4] N

-18 m

N 가



[4] ()

500 mm PHC K35

[5] [7]

3 4

3

가 3

가가

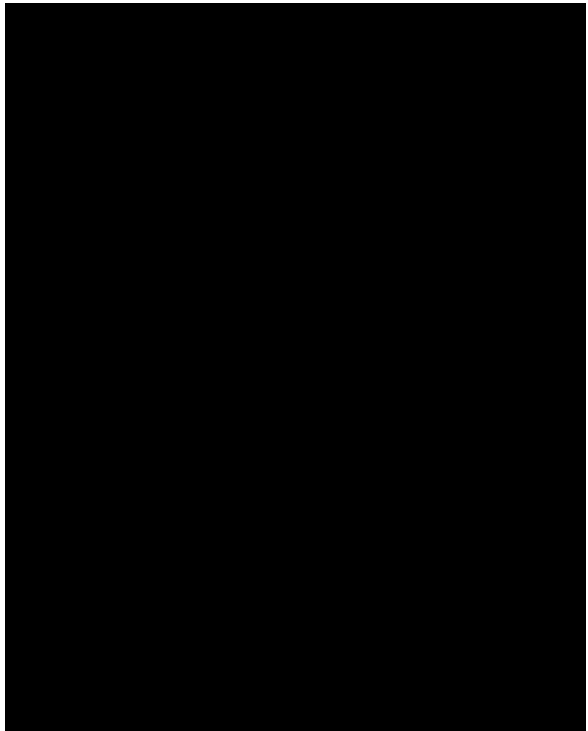
가



[5]

(1) [6]

(2)



[7]

(3)

[8]
-23.2 m

500 mm PHC
(EOID) [9(a)]

N
[

9{b}]
가가

2

가가



[8] ()



[9] (4)

[4]

[8]
N

가

가

가

[10]

가 가

paper drain

[10]

[10]
1 3.5

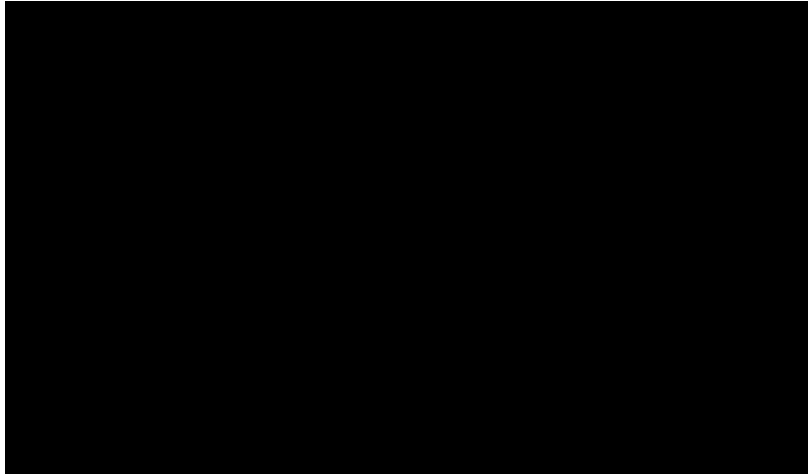
609.6 mm×10 mm(thk)

K45

3

3

[11]



[10]

()

[11]

(5)

-19.8 m

-26.8 m

7 m

(6)

-18.5 m

-21.6 m

(7)

(5)

(6)

가

(7)

가

paper drain

4.

가

CAPWAP

- 1) , , (1995), " , '95 , pp.69-90.
- 2) , , (1991), " , , pp.689-692.
- 3) Endo, M., Minou, A., Kawasaki, K. and Shibata, T.(1969), " Negative skin friction acting on steel pipe piles in clay ", Proc. 7th ICSMFE. Vol.2, pp.93-98.
- 4) Fellenius, B.H. and Broms B.B.(1969), " Negative skin friction for long piles driven in clay ", Special session No. 8, 7th ICSMFE.
- 5) Fellenius, B.H., Riker, R.E., O'Brien, A.J. and Tracy, G.R.(1989), " Dynamic and static testing in soil exhibiting set-up ", Journal of Geotechnical Engineering, ASCE, Vol.115, No.GT7, pp.984-1001.
- 6) Schmertmann, J.H.(1991), " The mechanical ageing of soils ", The 25th K. Terzaghi Lecture, Journal of Geotechnical Engineering, ASCE,Vol.117. No.GT9,pp.1288-1330.
- 7) Svinkin, M.R., Morgano, C.M. and Morvant, M.(1994), " Pile capacity as a function of time in clayey and sandy soils ", Proc. of Int.Conf.on PDF,Brouges, Belgium.
- 8) Walker, L.K. and Darvall, P.Le.P.(1973), " Dragdown on coated and uncoated piles ", Proc. 8th ICSMFE. Vol.2.1, pp.257-262.
- 9) Yang, N.C.(1970), " Relaxation of piles in sand and in organic silt ", Journal of soil mechanics and foundation engineering, ASCE, Vol.96, SM2, pp.395-409.