

# 1 WATER JET /	47,602	52,033	86,100	185,735	#.1																																				
<p> $T_c = (T_o \times a) / F$ (min/) T_c : PILE 1 () T_o : PILE 1 () a : F : $F_o = 0.95$. : $f_1=0.0$. : $f_2=0.0$. : $f_3=0.0$. : $f_4=0.0$ $F = F_o + (f_1 + f_2 + f_3 + f_4) = 0.95$ $N = 1,500 / 50$ () . : a :M N . 0.60 $L_1 = 3.1$ M , $N_1 = 30$. 0.70 $L_2 = 0.0$ M , $N_2 = 00$. 0.80 $L_3 = 0.0$ M , $N_3 = 0$. 1.00 $L_4 = 1.0$ M , $N_4 = 300$. 1.20 $L_5 = 0.0$ M , $N_5 = 0$. SHEET PILE : $L = 3.1+0+0+1+0=4.10$ m : $a = (0.6 \times L_1 + 0.7 \times L_2 + 0.8 \times L_3 + 1.0 \times L_4 + 1.2 \times L_5) / 4.1 = 0.70$ 가 N $N = (N_1 \times L_1 + N_2 \times L_2 + N_3 \times L_3 + N_4 \times L_4 + N_5 \times L_5) / 4.1 = 95.85$ $T_{om} = (0.05 \times L \times (N + 42.5) + 9.6) = 37.96$ (min/M) N : 가 N L : (m) $T_c = (T_{om} \times a) / F = 27.97$ (min/) </p>																																									
<table> <tr> <td></td><td>L 12</td><td>12 L 16</td><td>16 L 22</td><td>22 L 30</td><td></td></tr> <tr> <td>30kw</td><td>35</td><td>35</td><td></td><td></td><td>125kw</td></tr> <tr> <td>45kw</td><td>35</td><td>35</td><td></td><td></td><td>150kw</td></tr> <tr> <td>60kw</td><td>40</td><td>40</td><td>40</td><td></td><td>250kw</td></tr> <tr> <td>90kw</td><td>50</td><td>50</td><td>50</td><td>70</td><td>350kw</td></tr> <tr> <td>120kw</td><td></td><td>70</td><td>80</td><td>80</td><td>450kw</td></tr> </table>							L 12	12 L 16	16 L 22	22 L 30		30kw	35	35			125kw	45kw	35	35			150kw	60kw	40	40	40		250kw	90kw	50	50	50	70	350kw	120kw		70	80	80	450kw
	L 12	12 L 16	16 L 22	22 L 30																																					
30kw	35	35			125kw																																				
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. (60 kw) : 1 . WATER JET (131 PS x 1) : 2 . (40 ton) : 1 . (250 kw) : 1																																									

. (20 ton) : 1 (60 %) . (300 A) : 1 (60 %)					
(2)					
. : 2					
. : 1					
. : 1					
. : 1					
(3)					
1)					
. : $21,913 * T_c / 60 = 10,215.1$			10,215.1	10,215.1	E65300060
			10,215.1	10,215.1	
2) WATER JET					
. : $21,186 * T_c * 2 / 60 = 19,752.4$	19,752.4			19,752.4	E65400131
. : $41,513 * T_c * 2 / 60 = 38,703.9$			38,703.9	38,703.9	E65400131
	19,752.4		38,703.9	58,456.3	
3)					
. : $10,939.68 * T_c / 60 = 5,099.7$	5,099.7			5,099.7	E21010040
. : $31,751 * T_c / 60 = 14,801.2$		14,801.2		14,801.2	E21010040
. : $31,913 * T_c / 60 = 14,876.7$			14,876.7	14,876.7	E21010040
	5,099.7	14,801.2	14,876.7	34,777.6	
4)					
. : $44,760.24 * T_c / 60 = 20,865.7$	20,865.7			20,865.7	E75050250
. : $12,438 * T_c / 60 = 5,798.1$		5,798.1		5,798.1	E75050250
. : $12,173 * T_c / 60 = 5,674.6$			5,674.6	5,674.6	E75050250
	20,865.7	5,798.1	5,674.6	32,338.4	
5) (20 ton) (60 %)					
. : $6,024.52 * T_c / 60 * 0.6 = 1,685.0$	1,685			1,685	E21040020
. : $31,751 * T_c / 60 * 0.6 = 8,880.7$		8,880.7		8,880.7	E21040020
. : $40,147 * T_c / 60 * 0.6 = 11,229.1$			11,229.1	11,229.1	E21040020
	1,685	8,880.7	11,229.1	21,794.8	
6-1) (300 A) (60 %)					
. : $93 * T_c / 60 * 0.6 = 26.0$			26	26	E76110300
			26	26	
6-2) (fillet 6 mm) (SHEET PILE 10 %)					
. : $488 * (L / 10) = 200.0$	200			200	
	200			200	

7)	(+ WATER JET 9 %)				
.	: $45,080 * Tc / 60 * 0.09 = 1,891.3$		1,891.3	1,891.3	E65300120
.	: $41,513 * Tc * 2 / 60 * 0.09 = 3,483.3$		3,483.3	3,483.3	E65400131
			5,374.6	5,374.6	
(4)					
.	: $93,650 * Tc / 60 / 8 * 2 = 10,914.1$	10,914.1		10,914.1	L015
.	: $50,683 * Tc / 60 / 8 * 1 = 2,953.3$	2,953.3		2,953.3	L085
.	: $69,109 * Tc / 60 / 8 * 1 = 4,027.0$	4,027		4,027	L081
.	: $79,947 * Tc / 60 / 8 * 1 = 4,658.5$	4,658.5		4,658.5	L114
		22,552.9		22,552.9	
		47,602.8	52,032.9	86,100	185,735.7
		47,602	52,033	86,100	185,735

# 2 /	17,813	47,042	73,035	137,890	#.2
가					
< >					
가 (1) + 125KW(1)					
1.					
- 1					
$T_c = (T_s + T_a)/F$					
$T_c : 1 ()$					
$T_s : 1 ()$					
$T_a : 1 ()$					
$F :$					
$N = 1,500 / 50 ()$					
$:M N$					
$L1 = 3.1 M , N1 = 30$					
$L2 = 0.0 M , N2 = 0$					
$L3 = 0.0 M , N3 = 0$					
$L4 = 1.0 M , Qu1 = 30$					
$L5 = 0.0 M , Qu2 = 0$					
SHEET PILE : $L = 3.1+0+0+1+0=4.10 m$					
$T_s = 15.0 MIN$					
$T_a = r * L * k = ? MIN$					
$r : ()$					
$r1 = 0.03 * N1 + 2.5 = 3.40 /M$					
$r2 = 0.05 * N2 + 2.5 = 2.50 /M$					
$r3 = 0.03 * N3 + 2.5 = 2.50 /M$					
$r4 = 0.07 * Qu1 + 2.5 = 4.60 /M$					
$r = (3.4 * 3.1 + 2.5 * 0 + 2.5 * 0 + 4.6 * 1) / 4.1 = 3.69$					
$k :$					
$k = 1.10$					
$T_a = 3.69 * 4.1 * 1.1 = 16.64 MIN$					
$F = F_o + (f1 + f2 + f3 + f4)$					
$F :$					
$f1 :$					

f2 : f3 : f4 : $F_o = 1.0$, $f_1 = 0.0$, $f_2 = 0.0$ $f_3 = 0.0$, $f_4 = 0.0$ $F = F_o + f_1 + f_2 + f_3 + f_4 = 1.00$ $T_c = (T_s + T_a) / F = 31.64$ MIN/ $Q = 60 / T_c = 1.89$ /HR $Q_1 = 1 / Q * 1 = 0.5291$ HR/					
1. 가					
: 1 * 10,939.68 * 0.5291 = 5,788.1 /	5,788.1			5,788.1	E65500045
: 1 * 31,751 * 0.5291 = 16,799.4 /		16,799.4		16,799.4	E65500045
: 1 * 131,002 * 0.5291 = 69,313.1 /			69,313.1	69,313.1	E65500045
2. (125KW)					
: 1 * 22,726.8 * 0.5291 = 12,024.7 /	12,024.7			12,024.7	E75050125
: 1 * 12,438 * 0.5291 = 6,580.9 /		6,580.9		6,580.9	E75050125
: 1 * 7,035 * 0.5291 = 3,722.2 /			3,722.2	3,722.2	E75050125
3.					
:					
2 / 8 HR * 0.5291 * 1 * 93,650 = 12,387.5 /		12,387.5		12,387.5	L015
:					
2 / 8 HR * 0.5291 * 1 * 50,683 = 6,704.0 /		6,704		6,704	L085
:					
1 / 8 HR * 0.5291 * 1 * 69,109 = 4,570.6 /		4,570.6		4,570.6	L080
	17,812.8	47,042.4	73,035.3	137,890.5	
	17,813	47,042	73,035	137,890	