

<p># 1 /</p> <p>가</p> <p>< ></p> <p>가 (1) + 125KW(1)</p> <p>1.</p> <p>- 1</p> <p>$T_c = (T_s + T_a)/F$</p> <p>Tc : 1 ()</p> <p>Ts : 1 ()</p> <p>Ta : 1 ()</p> <p>F :</p> <p>N = 1,500 / 50 ()</p> <p>:M N</p> <p>. L1 = 0.0 M , N1 = 0</p> <p>. L2 = 0.0 M , N2 = 0</p> <p>. L3 = 7.0 M , N3 = 500</p> <p>. L4 = 0.0 M , Qu1 =50</p> <p>. L5 = 0.0 M , Qu2 =100</p> <p>SHEET PILE : L = 0+0+7+0+0=7.00 m</p> <p>Ts = 15.0 MIN</p> <p>Ta = r* L* k =? MIN</p> <p>r : ()</p> <p>r1 = 0.03 * N1 + 2.5 = 2.50 /M</p> <p>r2 = 0.05 * N2 + 2.5 = 2.50 /M</p> <p>r3 = 0.03 * N3 + 2.5 = 17.50 /M</p> <p>r4 = 0.07 * Qu1 + 2.5 = 6.00 /M</p> <p>r5 = 0.07 * Qu2 + 2.5 = 9.50 /M</p> <p>r = (2.5 * 0 + 2.5 * 0+ 17.5 * 7 + 6 * 0 + 9.5 * 0) / 7 = 17.50</p> <p>k :</p> <p>k = 1.10</p> <p>Ta =17.5* 7* 1.1 =134.75 MIN</p> <p>F = Fo + (f1 + f2 + f3 + f4)</p> <p>F :</p>	145,220	264,592	370,397	780,209	#.1

<p>f1 :</p> <p>f2 :</p> <p>f3 :</p> <p>f4 :</p> <p>Fo = 1.0 , f1 = 0.0 , f2 = 0.0</p> <p>f3 = 0.0 , f4 = 0.0</p> <p>F = Fo + f1 + f2 + f3 + f4 = 1.00</p> <p>Tc = (Ts+Ta)/F =149.75 MIN/</p> <p>Q = 60 / Tc =0.40 /HR</p> <p>Q1=1/Q * 1 = 2.5000 HR/</p> <p>1.</p> <p>(1). 가</p> <p>: 1 * 10,939.68 * 2.5 = 27,349.2 /</p> <p>: 1 * 31,751 * 2.5 = 79,377.5 /</p> <p>: 1 * 131,002 * 2.5 = 327,505.0 /</p> <p>(2). (125KW)</p> <p>: 1 * 22,726.8 * 2.5 = 56,817.0 /</p> <p>: 1 * 12,438 * 2.5 = 31,095.0 /</p> <p>: 1 * 7,035 * 2.5 = 17,587.5 /</p> <p>(3).</p> <p>: 1 * 24,421.68 * 2.5 * 1 = 61,054.2 /</p> <p>: 1 * 16,926 * 2.5 * 1 = 42,315.0 /</p> <p>: 1 * 10,122 * 2.5 * 1 = 25,305.0 /</p> <p>3.</p> <p>:</p> <p>2 / 8 HR * 2.5 * 1 *93,650= 58,531.2 /</p> <p>:</p> <p>2 / 8 HR * 2.5 * 1 *50,683= 31,676.8 /</p> <p>:</p> <p>1 / 8 HR * 2.5 * 1 *69,109= 21,596.5 /</p>	<p>27,349.2</p> <p>56,817</p> <p>61,054.2</p> <p>58,531.2</p> <p>31,676.8</p> <p>21,596.5</p> <p>145,220.4</p>	<p>79,377.5</p> <p>31,095</p> <p>42,315</p> <p>58,531.2</p> <p>31,676.8</p> <p>21,596.5</p> <p>264,592</p>	<p>327,505</p> <p>17,587.5</p> <p>25,305</p> <p>58,531.2</p> <p>31,676.8</p> <p>21,596.5</p> <p>370,397.5</p>	<p>27,349.2</p> <p>79,377.5</p> <p>327,505</p> <p>56,817</p> <p>31,095</p> <p>17,587.5</p> <p>61,054.2</p> <p>42,315</p> <p>25,305</p> <p>58,531.2</p> <p>31,676.8</p> <p>21,596.5</p> <p>780,209.9</p>	<p>E65500045</p> <p>E65500045</p> <p>E65500045</p> <p>E75050125</p> <p>E75050125</p> <p>E75050125</p> <p>E52050255</p> <p>E52050255</p> <p>E52050255</p> <p>L015</p> <p>L085</p> <p>L080</p>

	145,220	264,592	370,397	780,209	

#	2	SHEET PILE () /								5,614	13,872	12,182	31,668	#.2	
Tc = ((0.75 + r x Nmax) x L + a) x K / F (min/)															
a, r :															
L : (M)															
F :															
Nmax: N															
K : SHEET PILE															
Fo = 1.0															
. : f1=0.05															
. : f2=0.05															
. : f3=0.05															
F = Fo + (f1 + f2 + f3) = 1.15															

. : $31,751 * T_c / 60 = 4,334.0$		4,334		4,334	E21010035
. : $40,876 * T_c / 60 = 5,579.5$			5,579.5	5,579.5	E21010035
	1,451.2	4,334	5,579.5	11,364.7	
3) (150 kw)					
. : $26,886.96 * T_c / 60 = 3,670.0$	3,670			3,670	E75050150
. : $12,438 * T_c / 60 = 1,697.7$		1,697.7		1,697.7	E75050150
. : $7,221 * T_c / 60 = 985.6$			985.6	985.6	E75050150
	3,670	1,697.7	985.6	6,353.3	
4) (20 ton) (60 %)					
. : $6,024.52 * T_c / 60 * 0.6 = 493.4$	493.4			493.4	E21040020
. : $31,751 * T_c / 60 * 0.6 = 2,600.4$		2,600.4		2,600.4	E21040020
. : $40,147 * T_c / 60 * 0.6 = 3,288.0$			3,288	3,288	E21040020
	493.4	2,600.4	3,288	6,381.8	
(4)					
. : $93,650 * T_c / 60 / 8 * 2 = 3,195.8$		3,195.8		3,195.8	L015
. : $50,683 * T_c / 60 / 8 * 1 = 864.7$		864.7		864.7	L085
. : $69,109 * T_c / 60 / 8 * 1 = 1,179.1$		1,179.1		1,179.1	L081
		5,239.6		5,239.6	
	5,614.6	13,871.7	12,182.6	31,668.9	
	5,614	13,872	12,182	31,668	

# 3 SHEET PILE /	12,264	69,076	5,138	86,478	#.3
L = 7.0 M					
(30 1)					
1) (L = SHEET PILE)					
2) (L = SHEET PILE * 2)					
1.					
1)					
. : 948 * 7 M = 6,636.0	6,636			6,636	
. : 804 * 7 M = 5,628.0		5,628		5,628	
. : 16 * 7 M = 112.0			112	112	
	6,636	5,628	112	12,376	
2) (fillet 6 mm)					
. : 402 * 7 M * 2 = 5,628.0	5,628			5,628	
. : 4,532 * 7 M * 2 = 63,448.0		63,448		63,448	
. : 359 * 7 M * 2 = 5,026.0			5,026	5,026	
	5,628	63,448	5,026	74,102	
	12,264	69,076	5,138	86,478	

# 4 H-PILE () () L=5.00 M/	9,054	27,964	16,080	53,098	#.4
1. H-PILE (H-250x250x9x14)					
Tc = (Ts + Tb) / F (min /)					
Tc : PILE 1 ()					
Ts : PILE 1 ()					
Tb : PILE 1 ()					
F : PILE					
F0 = 0.8					
. : f1=0					
. : f2=0					
. : f3=0					
. : f4=0					
F = F0 + (f1 + f2 + f3 + f4) = 0.80					
Ts = 10 (min /)					
r :					
LL: PILE (M)					
k :					
H-200 : 0.80 , H-250 : 0.95					
H-300 : 1.00 , H-350 : 1.05					
k = 0.95					
.H-PILE : L = 5.00 m					
.H-PILE : LL= 4.50 m					
. : L1 = 4.50 m					
. : L2 = 0.00 m					
N1.N2: 71 N					
. N : N1 = 5					
. N : N2 = 0					
. () : r1					
. () : r2					
r1 = 0.03 * N1 + 0.6 = 0.75					
r2 = 0.05 * N2 + 0.6 = 0.60					
r = (r1 * L1 + r2 * L2) / (L1 + L2) = 0.75					
Tb = r * LL * k = 3.21 (min /)					
Tc = (Ts + Tb) / F = 16.51 (min /)					
1)					
. (40 kw) : 1					
. (30 ton) : 1					
. (100 kw) : 1					
. (10 ton) : 1					
. (60 %) : 1					
2)					
. : 2					
. : 1					

. : 1					
3)					
(1) (40 kw)					
. : $15,311 * T_c / 60 = 4,213.0$			4,213	4,213	E65300040
			4,213	4,213	
(2) (30 ton)					
. : $10,015.2 * T_c / 60 = 2,755.8$	2,755.8			2,755.8	E21010030
. : $31,751 * T_c / 60 = 8,736.8$		8,736.8		8,736.8	E21010030
. : $24,750 * T_c / 60 = 6,810.3$			6,810.3	6,810.3	E21010030
	2,755.8	8,736.8	6,810.3	18,302.9	
(3) (100 kw)					
. : $20,338.56 * T_c / 60 = 5,596.4$	5,596.4			5,596.4	E75050100
. : $12,438 * T_c / 60 = 3,422.5$		3,422.5		3,422.5	E75050100
. : $5,652 * T_c / 60 = 1,555.2$			1,555.2	1,555.2	E75050100
	5,596.4	3,422.5	1,555.2	10,574.1	
(4) (10 ton) (60 %)					
. : $4,252.6 * T_c / 60 * 0.6 = 702.1$	702.1			702.1	E21040010
. : $31,751 * T_c / 60 * 0.6 = 5,242.0$		5,242		5,242	E21040010
. : $21,210 * T_c / 60 * 0.6 = 3,501.7$			3,501.7	3,501.7	E21040010
	702.1	5,242	3,501.7	9,445.8	
(5)					
. : $93,650 * T_c / 60 / 8 * 2 = 6,442.3$		6,442.3		6,442.3	L015
. : $50,683 * T_c / 60 / 8 * 1 = 1,743.2$		1,743.2		1,743.2	L085
. : $69,109 * T_c / 60 / 8 * 1 = 2,377.0$		2,377		2,377	L081
		10,562.5		10,562.5	
	9,054	27,964	16,080	53,098	

<p># 5 H-PILE () () L=5.00 M/</p> <p>1. H-PILE (H-250x250x9x14)</p> <p>$T_c = (T_s + T_b) / F$ (min /)</p> <p>Tc:PILE 1 () Ts:PILE 1 () Tb:PILE 1 () F :PILE</p> <p>$F_0 = 0.9$</p> <p>. : f1=0 . : f2=0 . : f3=0 . : f4=0</p> <p>$F = F_0 + (f_1 + f_2 + f_3 + f_4) = 0.90$</p> <p>$T_s = 6$ (min/)</p> <p>r : LL:PILE (M) k :</p> <p>H-200 : 0.80 , H-250 : 0.90 H-300 : 0.95 , H-350 : 1.05 k = 0.90</p> <p>.H-PILE : L = 5.00 m .H-PILE : LL = 4.50 m</p> <p>. (.) : r1 . () : r2</p> <p>r1 = 0.5 r2 = 0.8 r = 0.5</p> <p>$T_b = r * LL * k = 2.03$ (min/)</p> <p>$T_c = (T_s + T_b) / F = 8.92$ (min/)</p> <p>1)</p> <p>. (40 kw) : 1 . (30 ton) : 1 . (100 kw) : 1 . (10 ton) : 1 . (60 %) : 1</p> <p>2)</p> <p>. : 2 . : 1 . : 1</p> <p>3)</p> <p>(1) (40 kw)</p> <p>. : $15,311 * T_c / 60 = 2,276.2$</p>	4,892	15,108	8,687	28,687	#.5
					E65300040

			2,276.2	2,276.2	
(2) (30 ton)					
. : $10,015.2 * T_c / 60 = 1,488.9$	1,488.9			1,488.9	E21010030
. : $31,751 * T_c / 60 = 4,720.3$		4,720.3		4,720.3	E21010030
. : $24,750 * T_c / 60 = 3,679.5$			3,679.5	3,679.5	E21010030
	1,488.9	4,720.3	3,679.5	9,888.7	
(3) (100 kw)					
. : $20,338.56 * T_c / 60 = 3,023.6$	3,023.6			3,023.6	E75050100
. : $12,438 * T_c / 60 = 1,849.1$		1,849.1		1,849.1	E75050100
. : $5,652 * T_c / 60 = 840.2$			840.2	840.2	E75050100
	3,023.6	1,849.1	840.2	5,712.9	
(4) (10 ton) (60 %)					
. : $4,252.6 * T_c / 60 * 0.6 = 379.3$	379.3			379.3	E21040010
. : $31,751 * T_c / 60 * 0.6 = 2,832.1$		2,832.1		2,832.1	E21040010
. : $21,210 * T_c / 60 * 0.6 = 1,891.9$			1,891.9	1,891.9	E21040010
	379.3	2,832.1	1,891.9	5,103.3	
(5)					
. : $93,650 * T_c / 60 / 8 * 2 = 3,480.6$		3,480.6		3,480.6	L015
. : $50,683 * T_c / 60 / 8 * 1 = 941.8$		941.8		941.8	L085
. : $69,109 * T_c / 60 / 8 * 1 = 1,284.2$		1,284.2		1,284.2	L081
		5,706.6		5,706.6	
	4,892	15,108	8,687	28,687	