



KASETSART UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING, GEOTECHNICAL ENGINEERING LABORATORY

UNCONFINED COMPRESSION TEST (ASTM D2166)

PROJECT	EARTH EMBANKMENT	BORING NO.	B.H.1	DATE	12/8/2546
SOIL DESCRIPTION	SOFT CLAY	SAMPLE DEPTH	1.80 m.	PROVING RING NO.	138596
LOCATION	BANGKHEN	SAMPLE NO.	1	LOADING RATE	0.8 mm/min
TEST BY	KITISAK	PROVING RING CONSTANT (K)	0.164	Kg/DIV	

SAMPLE DIAMETER	mm.	35	WEIGHT OF SAMPLE	g.	142.55
SAPLE AREA	cm ²	9.62	WATER CONTENT	%	36.7
SAMPLE HEIGHT	mm.	70	WET UNIT WEIGHT	g/cm ³	2.12
SAMPLE VOLUME	cm ³	67.35	DRY UNIT WEIGHT	g/cm ³	1.55

DEFORMATION DIAL READING (DIV)	VERTICAL DEFORMATION mm.	AXIAL STRAIN (%)	CORRECTED AREA (cm ²)	LOAD PROVING RING READING (DIV)	AXIAL LOAD (Kg)	VERTICAL STRESS (KSC)
0	0.00	0.00	9.62	0	0.00	0.00
20	0.20	0.29	9.65	4	0.66	0.07
40	0.40	0.57	9.68	8	1.31	0.14
60	0.60	0.86	9.70	11	1.80	0.19
80	0.80	1.14	9.73	14	2.30	0.24
100	1.00	1.43	9.76	15	2.46	0.26
120	1.20	1.71	9.79	17	2.79	0.29
140	1.40	2.00	9.82	18	2.95	0.31
160	1.60	2.29	9.85	19	3.12	0.32
180	1.80	2.57	9.87	20	3.28	0.34
200	2.00	2.86	9.90	21	3.44	0.36
220	2.20	3.14	9.93	21	3.44	0.36
240	2.40	3.43	9.96	22	3.61	0.38
260	2.60	3.71	9.99	22	3.61	0.38
280	2.80	4.00	10.02	20	3.28	0.34
300	3.00	4.29	10.05	20	3.28	0.34
320	3.20	4.57	10.08	20	3.28	0.34
340	3.40	4.86	10.11	19	3.12	0.32
360	3.60	5.14	10.14	19	3.12	0.32
380	3.80	5.43	10.17	19	3.12	0.32
400	4.00	5.71	10.20	19	3.12	0.32