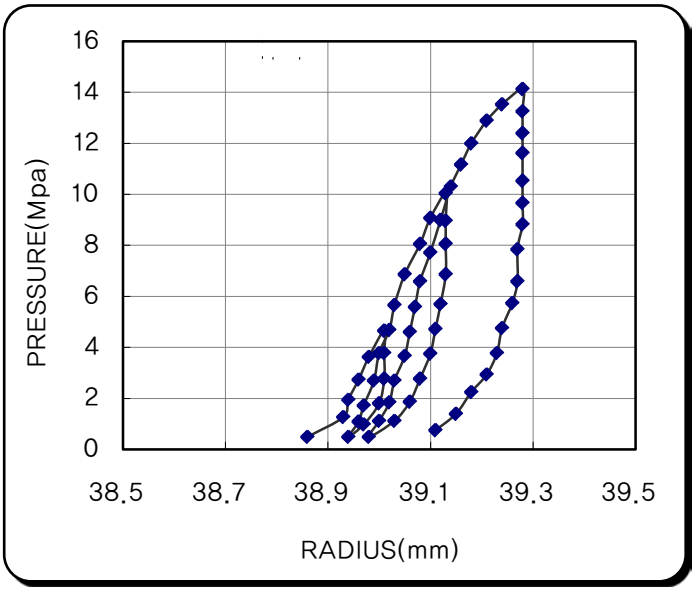
PRESSUREMETER TEST RESULT

PROJECT	섬안큰다리교 정밀안전진단 및 실시설계 기술용역						
HOLE NO.	BH-1	CLASS	S.R	ROCK NAME	이암	RQD(%)	70
DEPTH (m)	51.0m	TESTED BY		CHECKED BY		DATE	

NO	PRESSURE (MPa)	RADIUS (mm)	NO	PRESSURE (MPa)	RADIUS (mm)	NO	PRESSURE (MPa)	RADIUS (mm)
1	0.49	38.86	23	6.86	39.13	45	14.13	39.28
2	1.27	38.93	24	5.70	39.12	46	13.26	39.28
3	1.95	38.94	25	4.72	39.11	47	12.40	39.28
4	2.74	38.96	26	3.75	39.10	48	11.62	39.28
5	3.63	38.98	27	2.77	39.08	49	10.53	39.28
6	3.78	39.01	28	1.87	39.06	50	9.67	39.28
7	2.77	39.01	29	1.12	39.03	51	8.82	39.28
8	1.80	39.00	30	0.49	38.98	52	7.84	39.27
9	0.98	38.97	31	1.12	39.00	53	6.59	39.27
10	0.49	38.94	32	1.84	39.02	54	5.73	39.26
11	1.09	38.96	33	2.70	39.03	55	4.76	39.24
12	1.72	38.97	34	3.67	39.05	56	3.78	39.23
13	2.70	38.99	35	4.61	39.06	57	2.94	39.21
14	3.78	39.00	36	5.58	39.07	58	2.25	39.18
15	4.68	39.02	37	6.59	39.08	59	1.39	39.15
16	5.66	39.03	38	7.72	39.10	60	0.75	39.11
17	6.86	39.05	39	9.00	39.12	61		
18	8.06	39.08	40	10.30	39.14	62		
19	9.07	39.10	41	11.17	39.16	63		
20	10.04	39.13	42	12.00	39.18	64		
21	8.96	39.13	43	12.89	39.21	65		
22	8.06	39.13	44	13.53	39.24	66		



구분	변형계수	탄성계수
Po	1.3 MPa	1.8 MPa
Py	9.1 MPa	10.3 MPa
Ro	38.93 mm	39.02 mm
Ry	39.10 mm	39.14 mm
v	0.250	
Kp	458.82 MPa	705.00 MPa
Rm	39.02 mm	39.08 mm
Ed	2,238 MPa	3,444 MPa

REMARKS

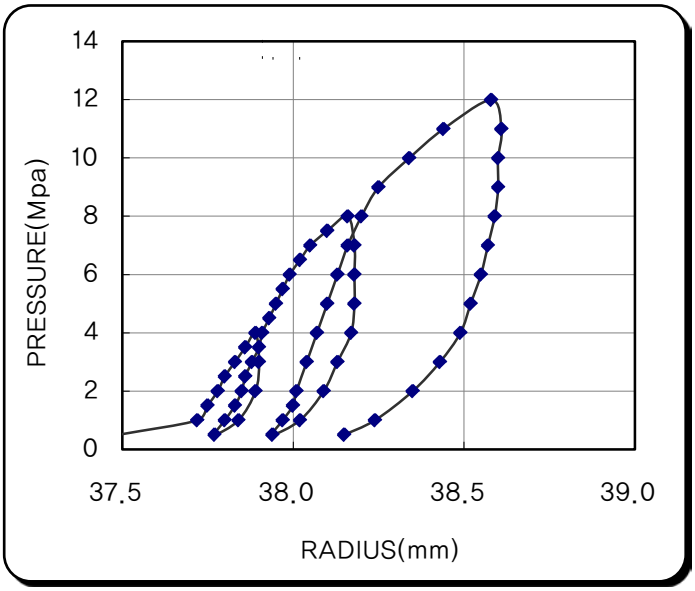
Kp = (Py - Po) / (Ry - Ro)

Ed = (1 + υ) x Kb x Rm

PRESSUREMETER TEST RESULT

PROJECT	섬안큰다리교 정밀안전진단 및 실시설계 기술용역						
HOLE NO.	BH-2	CLASS	S.R	ROCK NAME	Gneiss	RQD(%)	33
DEPTH (m)	46.0m	TESTED BY		CHECKED BY		DATE	

NO	PRESSURE (MPa)	RADIUS (mm)	NO	PRESSURE (MPa)	RADIUS (mm)	NO	PRESSURE (MPa)	RADIUS (mm)
1	0.50	37.49	23	6.50	38.02	45	10.00	38.34
2	1.00	37.72	24	7.00	38.05	46	11.00	38.44
3	1.50	37.75	25	7.50	38.10	47	12.00	38.58
4	2.00	37.78	26	8.00	38.16	48	11.00	38.61
5	2.50	37.80	27	7.00	38.18	49	10.00	38.60
6	3.50	37.86	28	6.00	38.18	50	9.00	38.60
7	4.00	37.89	29	5.00	38.18	51	8.00	38.59
8	3.00	37.90	30	4.00	38.17	52	7.00	38.57
9	2.00	37.89	31	3.00	38.13	53	6.00	38.55
10	1.00	37.84	32	2.00	38.09	54	5.00	38.52
11	0.50	37.77	33	1.00	38.02	55	4.00	38.49
12	1.00	37.80	34	0.50	37.94	56	3.00	38.43
13	1.50	37.83	35	1.00	37.97	57	2.00	38.35
14	2.00	37.85	36	1.50	38.00	58	1.00	38.24
15	2.50	37.86	37	2.00	38.01	59	0.50	38.15
16	3.00	37.88	38	3.00	38.04	60		
17	3.50	37.90	39	4.00	38.07	61		
18	4.00	37.91	40	5.00	38.10	62		
19	4.50	37.93	41	6.00	38.13	63		
20	5.00	37.95	42	7.00	38.16	64		
21	5.50	37.97	43	8.00	38.20	65		
22	6.00	37.99	44	9.00	38.25	66		



구분	변형계수	탄성계수
Po	1.0 MPa	1.5 MPa
Py	6.5 MPa	4.0 MPa
Ro	37.72 mm	37.83 mm
Ry	38.02 mm	37.91 mm
v	0.250	
Kp	183.33 MPa	312.50 MPa
Rm	37.87 mm	37.87 mm
Ed	868 MPa	1,479 MPa

REMARKS

Kp = (Py - Po) / (Ry - Ro)

Ed = (1 + υ) x Kb x Rm