Aalborg Universitet

Lund Sand No 0

part 2

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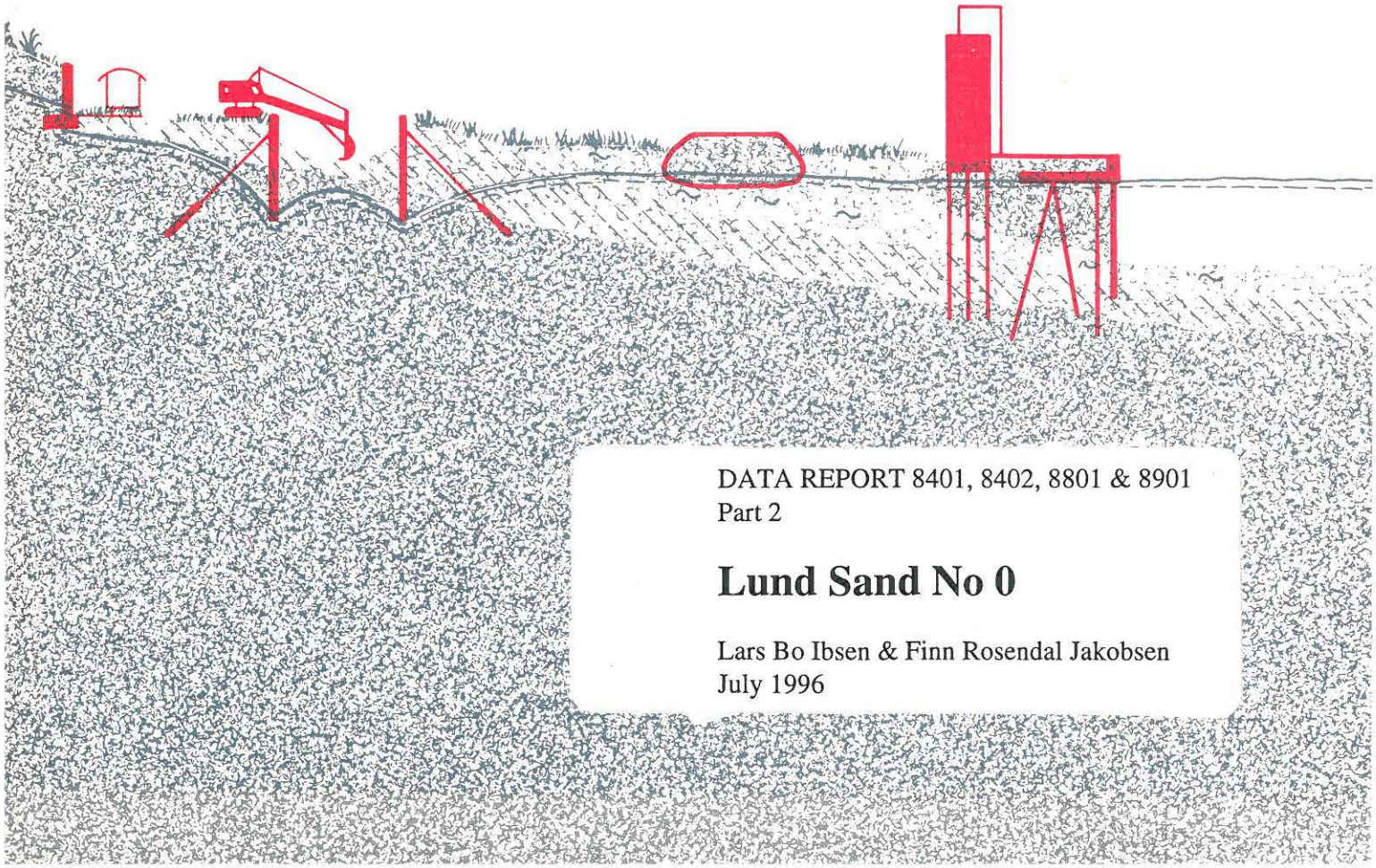


DATA REPORT 8401, 8402, 8801 & 8901
Part 2

Lund Sand No 0

Lars Bo Ibsen & Finn Rosendal Jakobsen
July 1996

Aalborg University
Geotechnical Engineering Group
Sohngaardsholmsvej 57
DK-9000 Aalborg

DATA REPORT 8401, 8402, 8801 & 8901
Part 2

Lund Sand No 0

Lars Bo Ibsen & Finn Rosendal Jakobsen
July 1996

List of symbols.

Latin letters

d = diameter of grain
d_{10} = 10% fractile
d_{50} = 50% fractile
d_{60} = 60% fractile
d_s = grain density

e = void ratio
e_0 = void ratio before test
e_f = void ratio at failure
e_{max} = maximum void ratio
e_{min} = minimum void ratio

I_D = density index

p = mean stress = $1/3(\sigma_1+2\sigma_3)$

q = deviatoric stress = $\sigma_1-\sigma_3$

S_w = degree of saturation

' = effective stress

Greek letters

ε = strain
ε_1 = vertical strain
ε_v = volumetric strain = $\varepsilon_1+2\varepsilon_3$
ε_q = shear strain = $2/3(\varepsilon_1-\varepsilon_3)$

σ = stress
σ_1 = vertical stress
σ_3 = confining pressure

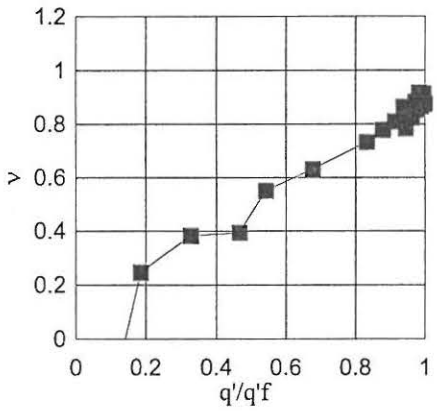
ν = Poisson's ratio = $\frac{\Delta\varepsilon_1-\Delta\varepsilon_v}{2\Delta\varepsilon_1}$
ψ = angle of dilatation = $\sin^{-1}\left(\frac{\Delta\varepsilon_v}{\Delta\varepsilon_v-2\Delta\varepsilon_1}\right)$

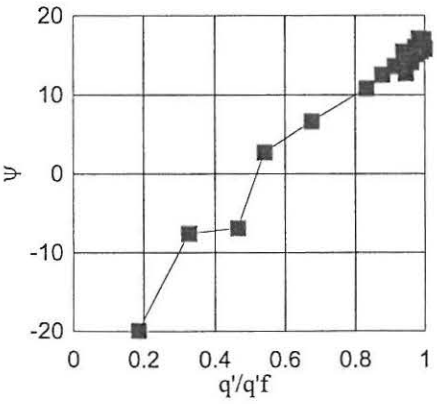
' = effective stress

Description of soil Lund No 0			Before test	At failure
		Water content %		
		Grain density	2.65	
Calibration file	Date	Void ratio	0.615	0.665
		Saturation		
kal_tri2	21.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-40 kPa
CD - Triaxial test.		ε 1	-0.062 %
free ends		ε ν	-0.152 %
	2.Drained compression.		
	Deformation rate:		7.9 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	177.80	kPa	82.74	kPa
Mean normal stress	p'	100.10	kPa	68.92	kPa
Confining pressures	σ3	40.83	kPa	41.34	kPa
Vertical strain	ε 1	5.54	%	0.37	%
Volumetric strain	ε ν	-3.10	%	0.28	%

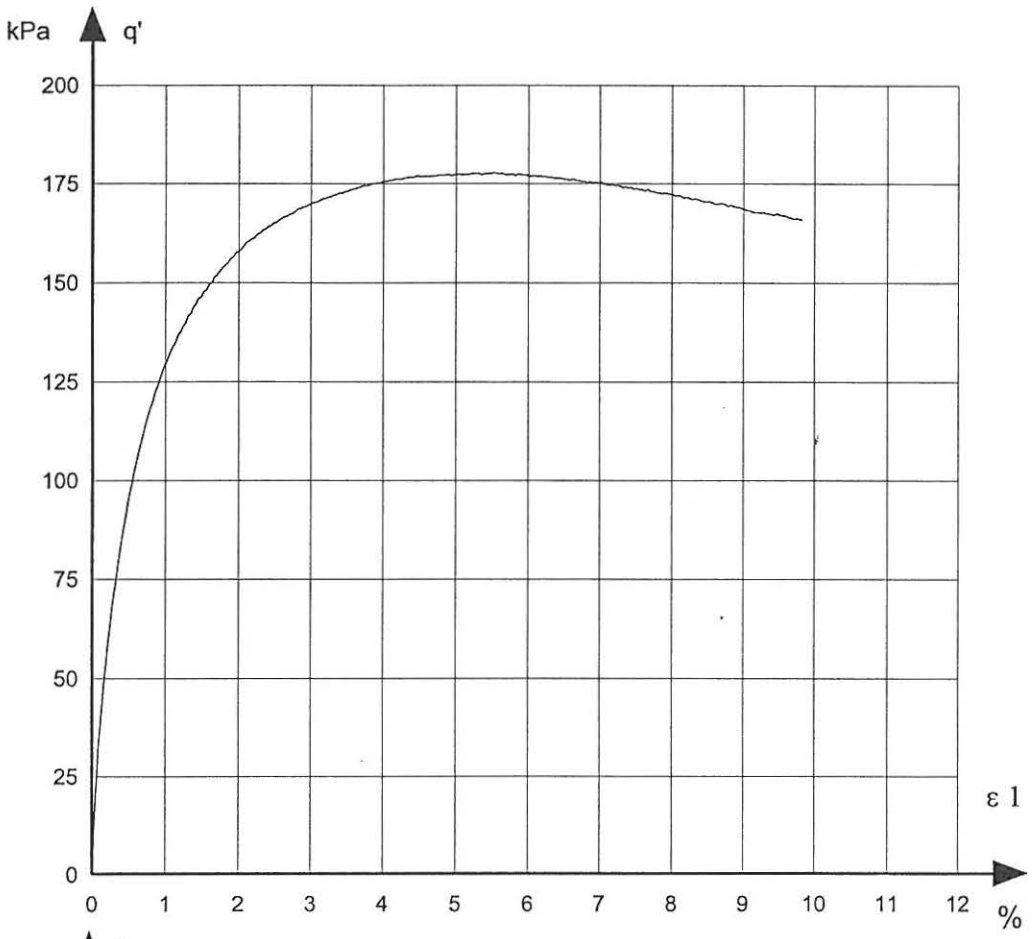


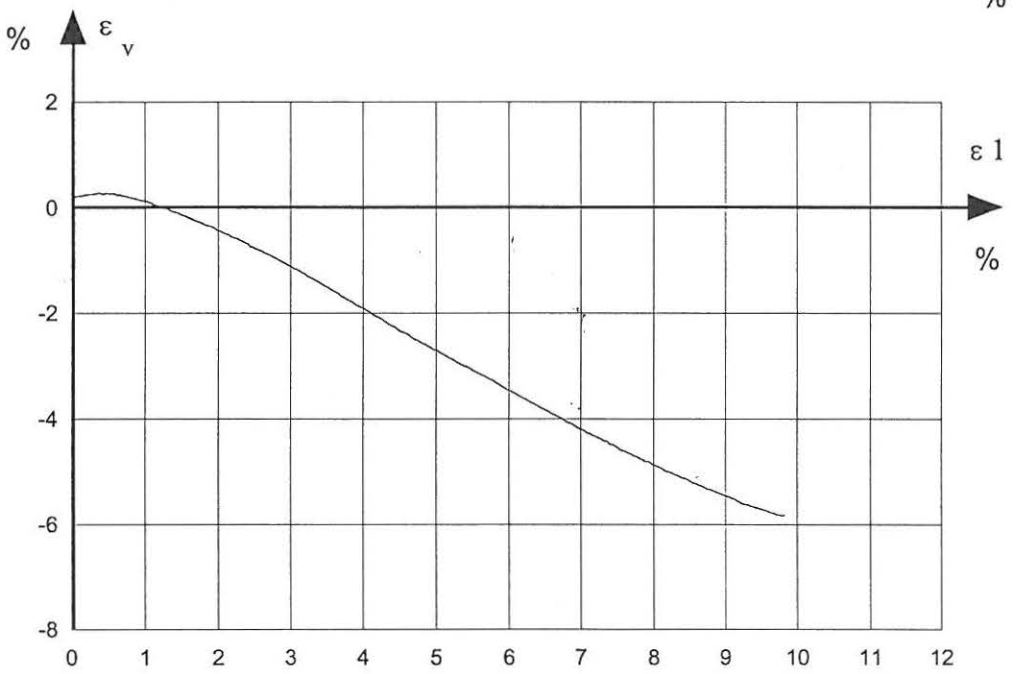


q'	p'	ε 1	ε ν
0.45	39.58	0.00	0.00
6.18	42.51	0.01	0.16
10.56	44.61	0.02	0.18
32.87	51.92	0.08	0.22
58.14	59.45	0.20	0.24
82.74	68.92	0.37	0.28
96.30	71.91	0.49	0.27
120.29	82.46	0.82	0.18
147.93	89.25	1.52	-0.14
156.07	93.49	1.88	-0.34
162.30	93.91	2.25	-0.57
166.76	95.53	2.63	-0.84
170.15	97.04	3.00	-1.11
172.72	97.77	3.39	-1.40
174.62	99.55	3.77	-1.72
176.22	98.04	4.16	-2.04
176.93	98.28	4.54	-2.36
177.80	100.10	5.54	-3.10
177.04	100.23	6.08	-3.51
175.59	97.83	6.85	-4.07
173.24	98.32	7.62	-4.62
170.85	96.64	8.39	-5.11
167.94	97.58	9.16	-5.55
167.71	98.39	9.24	-5.60

Job:	Encl. No
Lund No 0	1
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.152
Error during saturation.



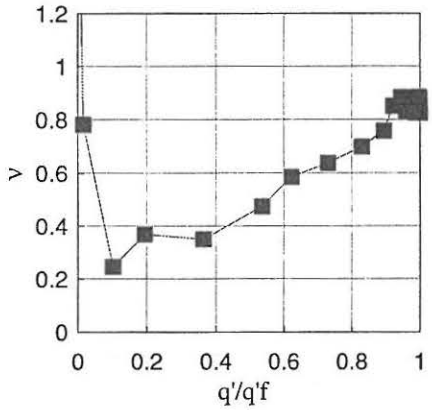


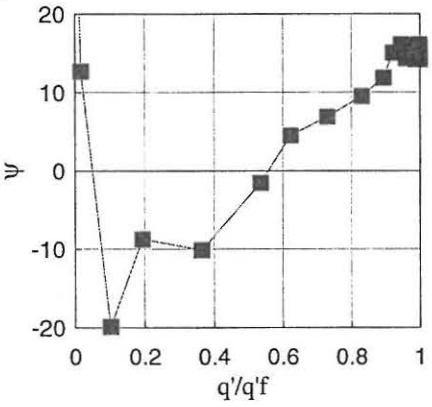
Job: Lund No 0	Encl. No 2
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.615	0.667
		Saturation		
kal_tri1	21.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-40 kPa
CD - Triaxial test.		ε 1	-0.048 %
free ends		ε ν	0.000 %
	2.Drained compression.		
	Deformation rate:		7.8 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	177.68	kPa	94.99	kPa
Mean normal stress	p'	100.44	kPa	74.41	kPa
Confining pressures	σ3	41.21	kPa	42.75	kPa
Vertical strain	ε 1	5.94	%	0.45	%
Volumetric strain	ε ν	-3.18	%	0.24	%

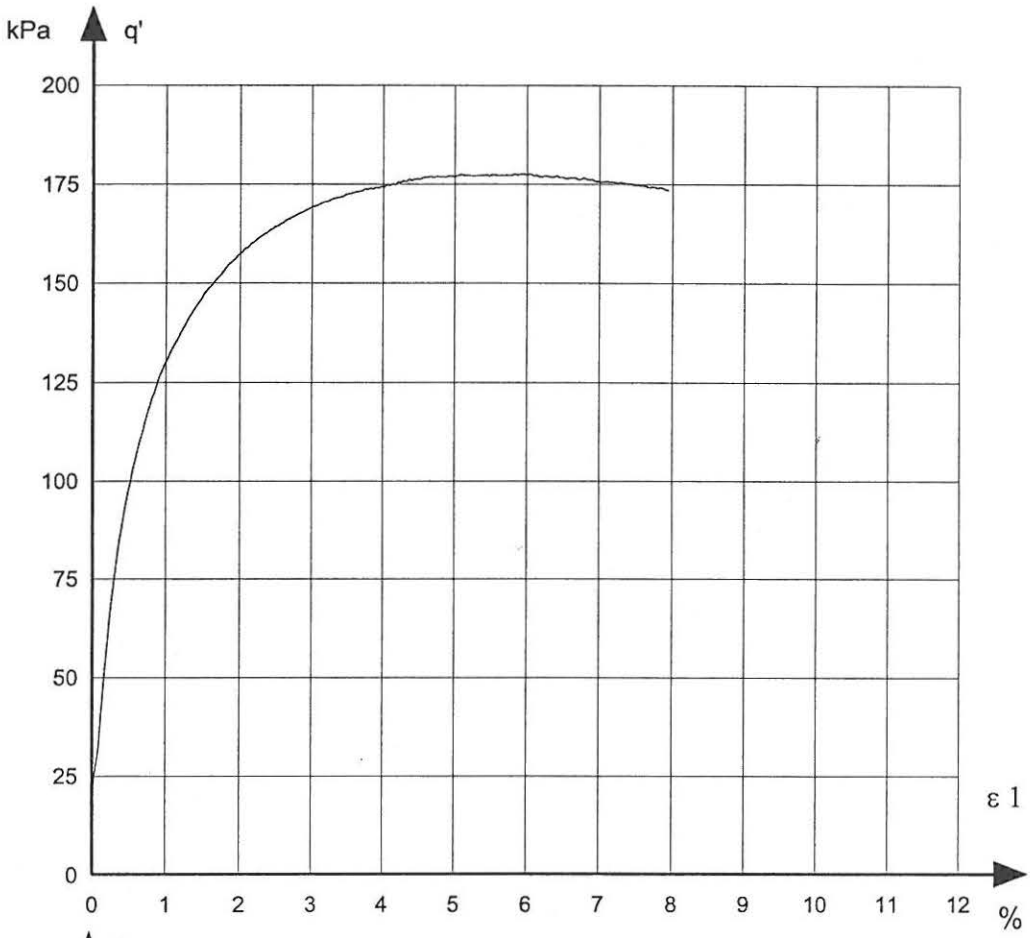


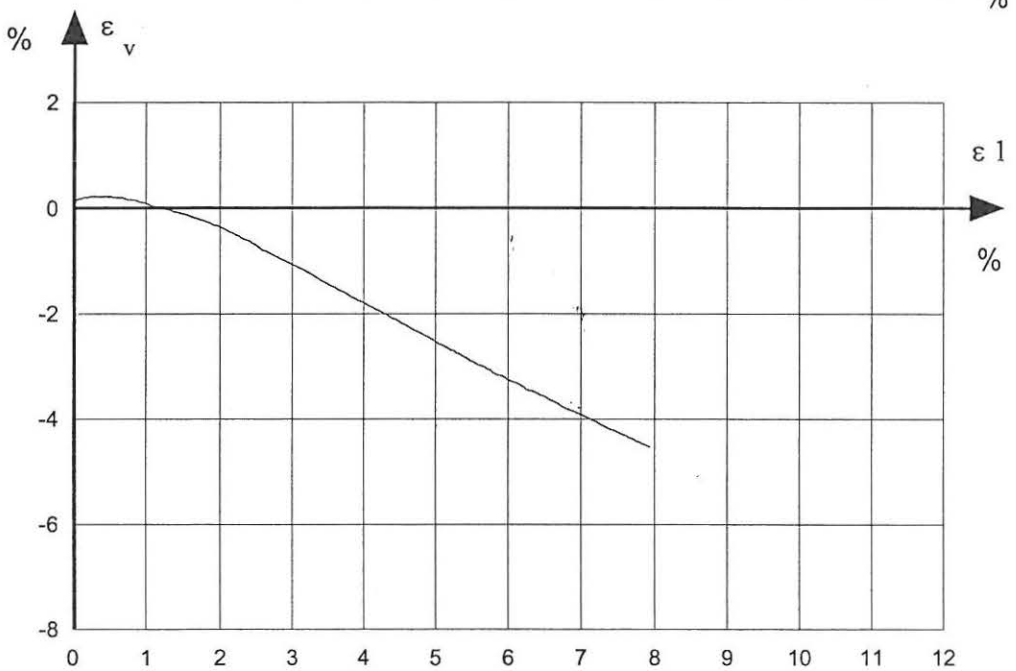


q'	p'	ε 1	ε ν
0.00	40.83	0.00	0.00
1.81	42.84	-0.06	0.09
2.87	39.75	-0.10	0.12
17.99	47.21	-0.03	0.15
34.43	52.56	0.09	0.18
64.72	61.51	0.22	0.22
94.99	74.41	0.45	0.24
110.55	76.28	0.64	0.20
129.51	83.62	0.98	0.11
147.39	90.22	1.51	-0.10
158.80	94.02	2.06	-0.38
163.63	94.86	2.44	-0.65
167.74	95.98	2.82	-0.94
170.56	96.41	3.20	-1.19
172.98	97.22	3.58	-1.49
174.53	99.78	3.97	-1.76
176.32	99.73	4.36	-2.04
177.10	100.37	4.74	-2.32
177.26	99.79	5.13	-2.62
177.44	98.45	5.51	-2.90
177.68	100.44	5.94	-3.18
177.11	99.48	6.29	-3.45
175.61	98.86	7.06	-3.95
174.24	97.76	7.82	-4.46

Job:	Encl. No
Lund No 0	3
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 = 0.099
Error during saturation.



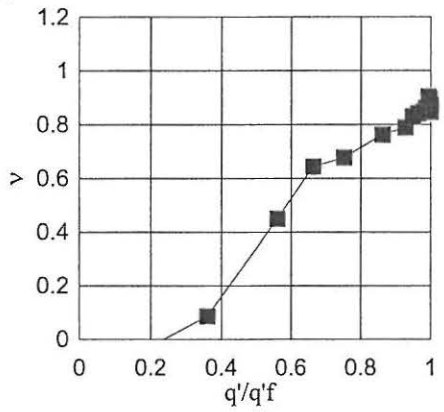


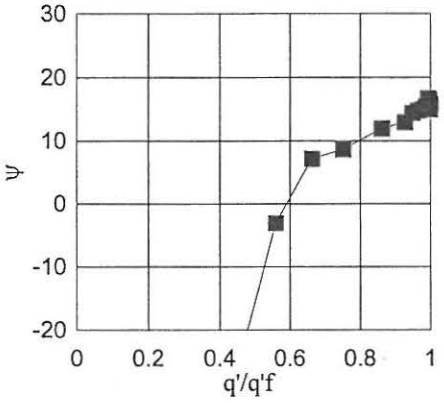
Job: Lund No 0	Encl. No 4
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.618	0.663
		Saturation	1.04	
kal_tri2	22.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-40 kPa
CD - Triaxial test.		ε 1	-0.048 %
free ends		ε ν	0.100 %
	2.Drained compression.		
	Deformation rate:		8.8 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	184.84	kPa	103.57	kPa
Mean normal stress	p'	101.04	kPa	76.38	kPa
Confining pressures	σ3	39.43	kPa	41.85	kPa
Vertical strain	ε 1	5.18	%	0.44	%
Volumetric strain	ε ν	-2.72	%	0.19	%

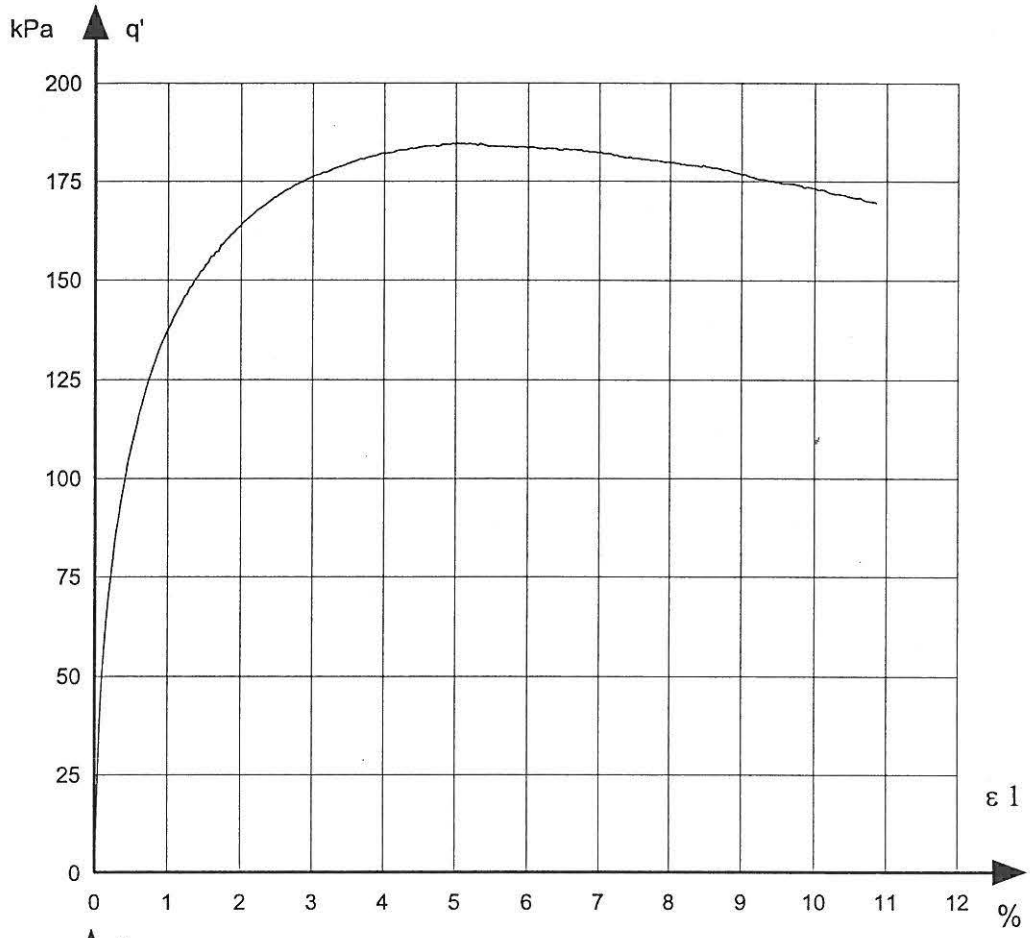


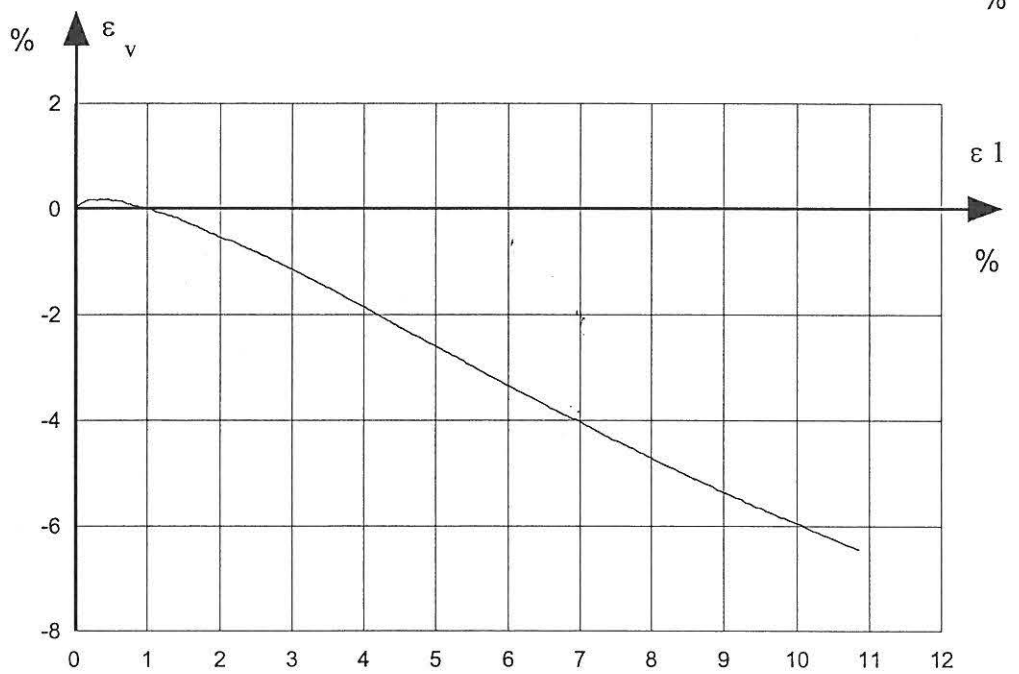


q'	p'	ε 1	ε ν
0.30	40.81	0.00	0.00
12.98	44.90	0.02	0.03
36.98	53.67	0.06	0.07
66.55	61.99	0.16	0.16
103.57	76.38	0.44	0.19
122.74	80.98	0.69	0.12
139.04	85.39	1.03	-0.00
159.24	93.27	1.75	-0.38
171.23	98.16	2.49	-0.81
175.08	97.15	2.87	-1.05
177.99	100.80	3.25	-1.31
180.55	100.63	3.63	-1.57
182.17	101.17	4.02	-1.85
183.40	102.48	4.41	-2.17
184.42	102.69	4.80	-2.44
184.84	101.04	5.18	-2.72
183.98	102.16	5.56	-3.02
183.37	102.85	6.34	-3.59
182.14	100.02	7.12	-4.11
180.16	101.14	7.88	-4.62
178.44	100.82	8.66	-5.13
175.22	100.00	9.42	-5.62
172.18	97.84	10.20	-6.08
171.85	97.48	10.28	-6.11

Job:	Encl. No
Lund No 0	5
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.159



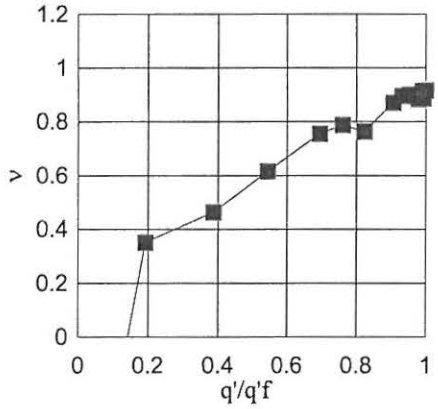


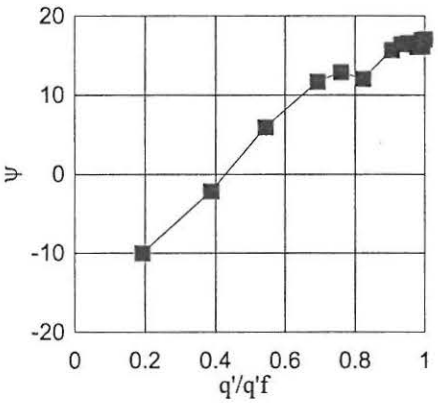
Job: Lund No 0	Encl. No 6
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.628	0.689
		Saturation	1.04	
kal_tri2	26.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-20 kPa
CD - Triaxial test.		ε 1	-0.030 %
free ends		ε ν	-0.080 %
	2.Drained compression.		
	Deformation rate:		8.5 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	85.48	kPa	33.09	kPa
Mean normal stress	p'	52.61	kPa	30.04	kPa
Confining pressures	σ3	24.12	kPa	19.01	kPa
Vertical strain	ε 1	5.56	%	0.24	%
Volumetric strain	ε ν	-3.73	%	0.05	%

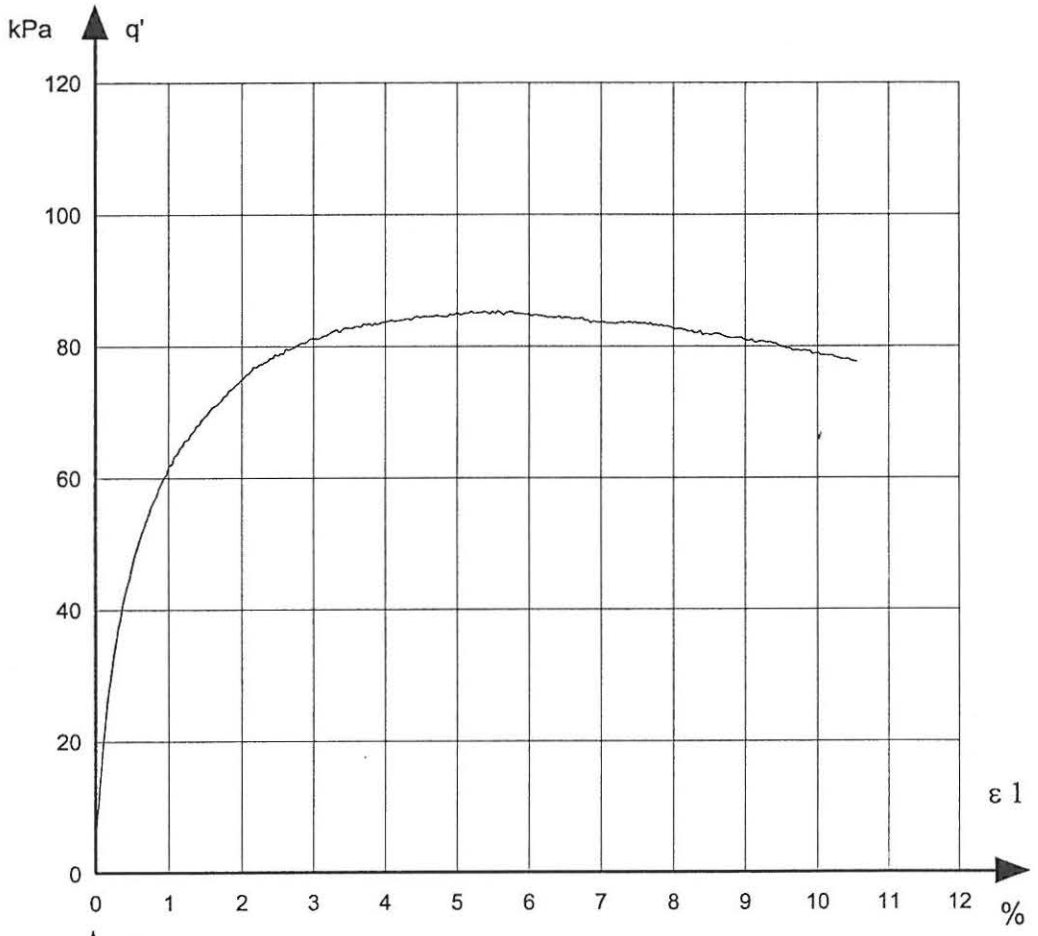


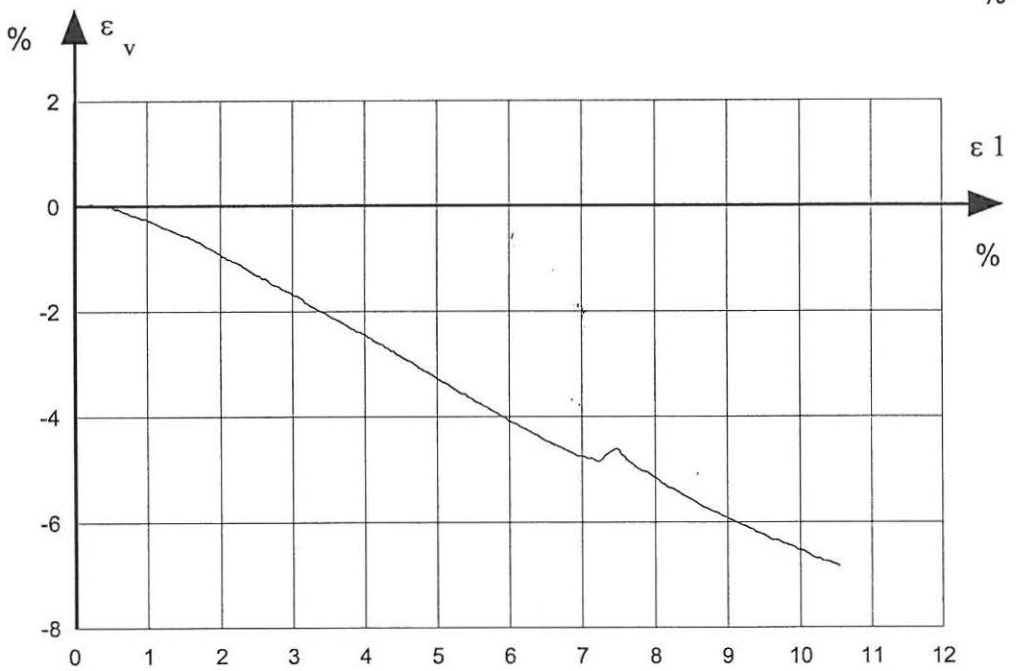


q'	p'	ε 1	ε ν
-0.15	22.79	0.00	0.00
7.08	22.14	0.01	0.02
16.42	25.38	0.08	0.04
33.09	30.04	0.24	0.05
46.49	36.17	0.49	-0.00
59.32	40.06	0.90	-0.21
64.99	43.61	1.18	-0.38
70.36	44.12	1.56	-0.58
77.35	47.35	2.28	-1.11
79.58	46.05	2.65	-1.40
81.20	49.02	3.02	-1.69
82.51	48.81	3.39	-1.99
83.52	49.15	3.77	-2.28
83.93	50.18	4.16	-2.58
84.58	50.01	4.55	-2.90
84.82	49.46	4.93	-3.21
85.48	52.61	5.56	-3.73
84.85	50.49	6.06	-4.12
83.56	48.01	6.85	-4.68
83.59	48.53	7.60	-4.80
82.37	48.00	8.36	-5.46
80.77	48.49	9.12	-5.99
79.37	47.00	9.89	-6.44
78.98	47.38	9.96	-6.52

Job:	Encl. No
Lund No 0	7
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.093
Void ratio too large.



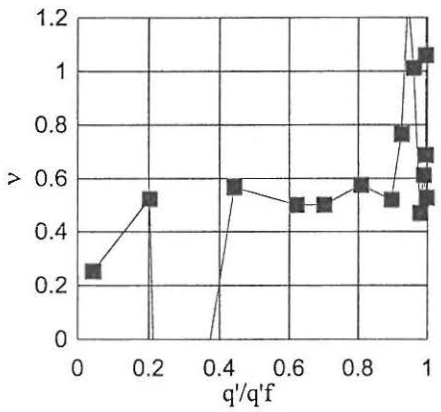


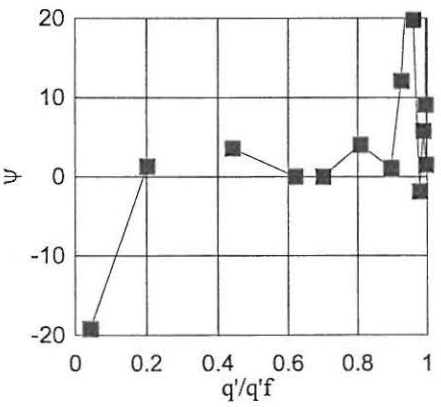
Job: Lund No 0	Encl. No 8
Exc: LBI	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.616	0.646
		Saturation	1.04	
kal_tri2	27.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-20 kPa
CD - Triaxial test.		ε 1	-0.059 %
free ends		ε ν	-0.024 %
	2.Drained compression.		
	Deformation rate:		5.8 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	106.47	kPa	25.35	kPa
Mean normal stress	p'	56.29	kPa	29.51	kPa
Confining pressures	σ3	20.80	kPa	21.05	kPa
Vertical strain	ε 1	4.68	%	0.14	%
Volumetric strain	ε ν	-1.83	%	0.05	%

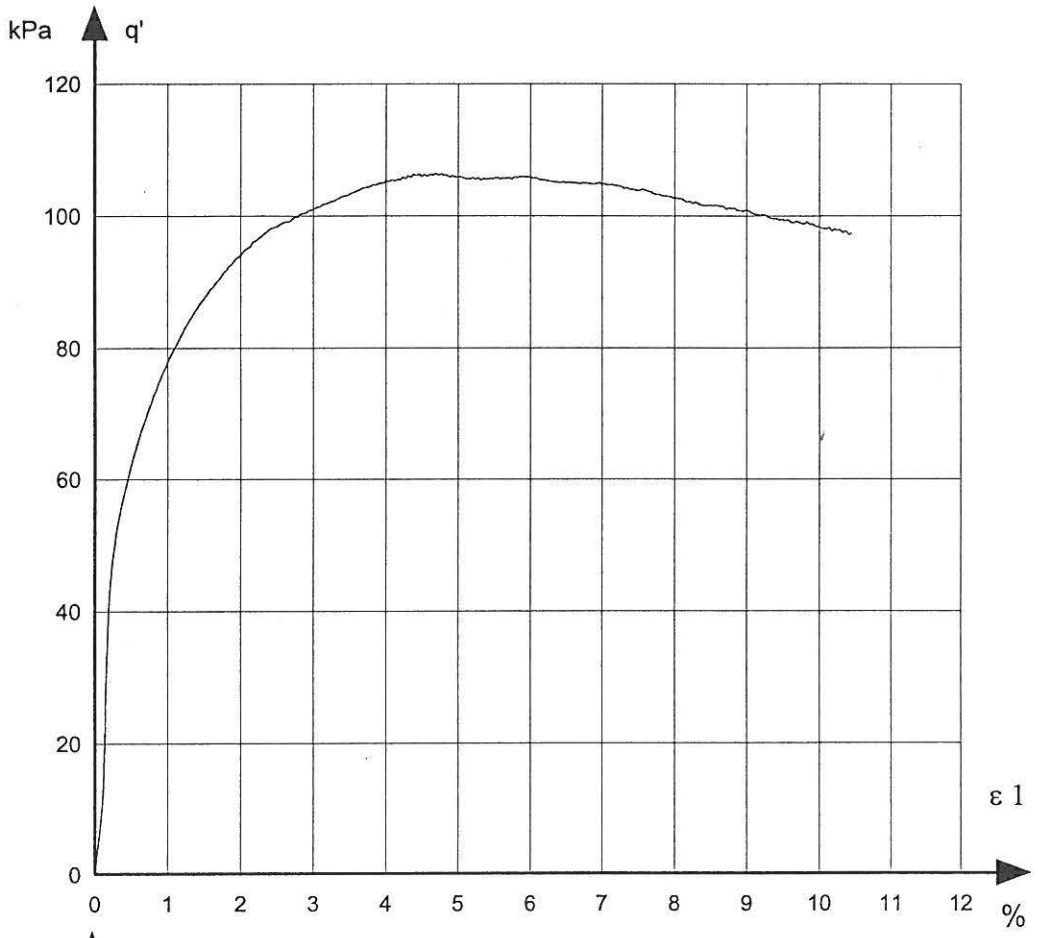


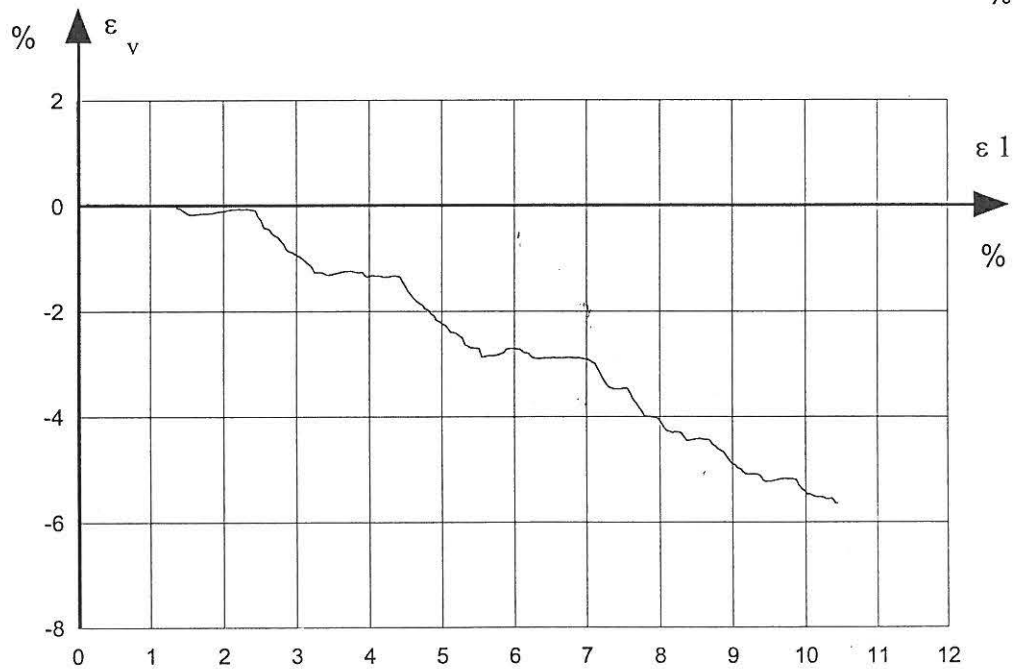


q'	p'	ε 1	ε ν
0.00	21.05	0.00	0.00
4.53	22.56	0.04	0.02
21.58	28.25	0.13	0.02
25.35	29.51	0.14	0.05
47.04	36.61	0.23	0.04
66.10	43.09	0.59	0.04
74.60	45.92	0.86	0.04
86.05	49.61	1.40	-0.04
95.44	52.74	2.13	-0.07
98.55	53.78	2.51	-0.27
100.49	54.42	2.90	-0.86
102.30	54.90	3.28	-1.26
104.22	55.66	3.67	-1.23
105.29	55.90	4.04	-1.32
106.14	56.18	4.42	-1.34
106.47	56.29	4.68	-1.83
105.85	56.21	5.20	-2.42
105.96	55.86	5.96	-2.70
105.05	55.31	6.73	-2.87
103.88	54.79	7.49	-3.46
101.94	54.27	8.25	-4.29
100.88	53.66	9.02	-4.90
98.87	52.99	9.79	-5.17
98.76	52.95	9.87	-5.19

Job:	Encl. No
Lund No 0	9
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 -0.043
The volumetric strain is not measured correctly.



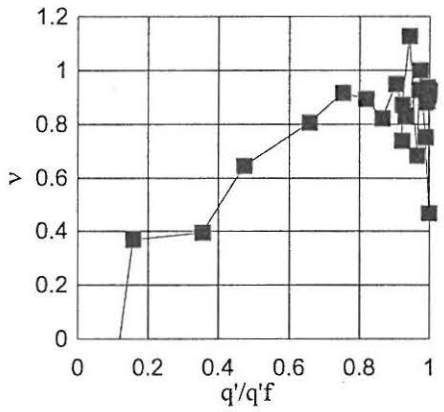


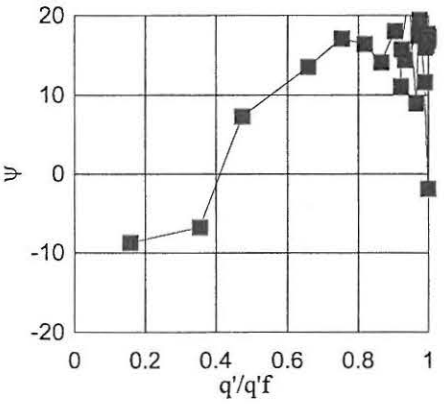
Job: Lund No 0	Encl. No 10
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.611	0.665
		Saturation	1.05	
kal_tri3	28.09.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-20 kPa
CD - Triaxial test.		ε 1	-0.089 %
free ends		ε ν	-0.232 %
	2.Drained compression.		
	Deformation rate:		8.6 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	100.75	kPa	47.67	kPa
Mean normal stress	p'	54.76	kPa	36.94	kPa
Confining pressures	σ3	21.18	kPa	21.05	kPa
Vertical strain	ε 1	5.14	%	0.32	%
Volumetric strain	ε ν	-3.38	%	0.16	%

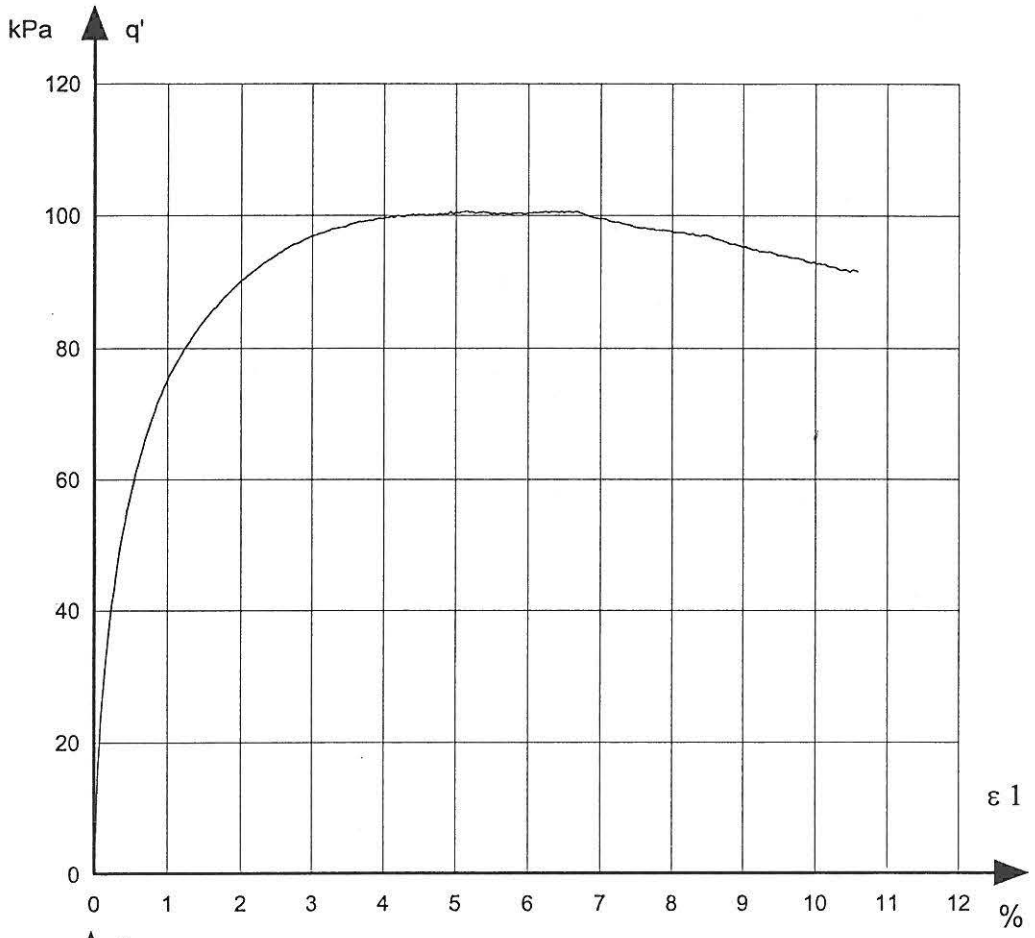


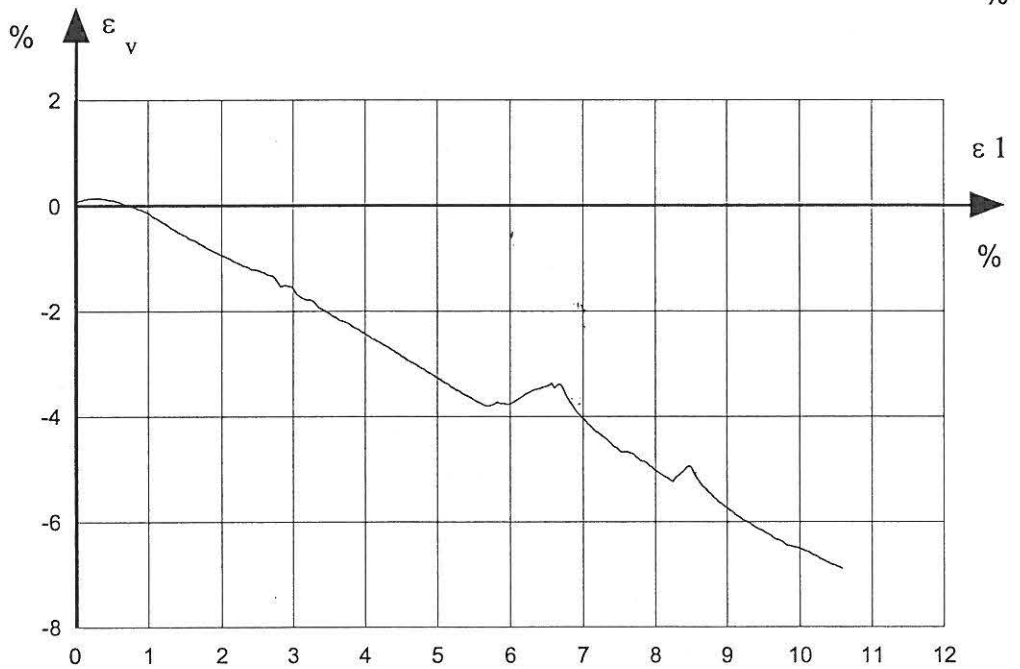


q'	p'	ε 1	ε ν
0.45	21.33	0.00	0.00
6.93	26.46	0.05	0.10
15.82	30.12	0.11	0.11
35.83	36.94	0.32	0.16
47.67	42.32	0.62	0.07
66.29	46.95	1.09	-0.22
75.92	48.64	1.37	-0.45
82.38	50.23	1.72	-0.73
87.14	52.32	2.45	-1.20
90.99	53.19	2.82	-1.53
93.79	53.62	3.20	-1.78
97.70	54.01	3.57	-2.10
99.62	54.26	3.95	-2.38
100.08	54.54	4.32	-2.67
100.21	54.46	4.70	-3.00
100.75	54.76	5.14	-3.38
100.47	54.54	5.45	-3.63
100.54	54.57	6.19	-3.58
99.65	54.27	6.94	-3.95
98.01	53.85	7.69	-4.70
97.11	53.55	8.43	-4.97
94.94	52.83	9.18	-5.91
92.89	52.40	9.94	-6.47
92.78	51.98	10.01	-6.51

Job:	Encl. No
Lund No 0	11
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.070



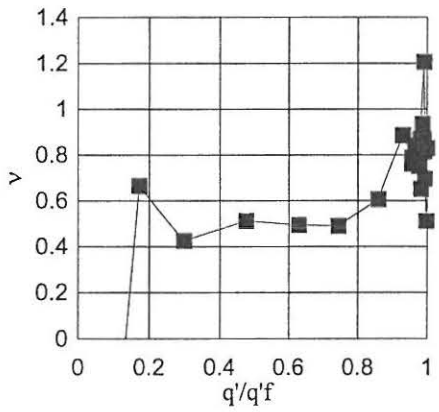


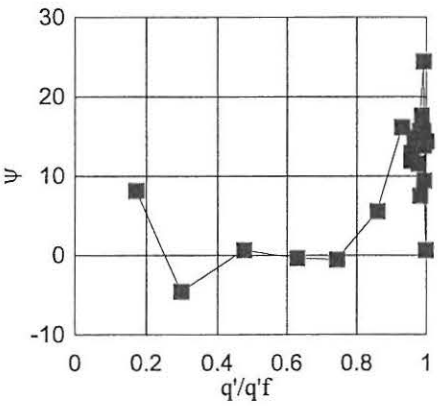
Job: Lund No 0	Encl. No 12
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.621	0.665
		Saturation	1.03	
kal_tri4	4.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-10 kPa
CD - Triaxial test.		ε 1	-0.002 %
free ends		ε ν	0.016 %
	2.Drained compression.		
	Deformation rate:		8.5 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	50.65	kPa	37.69	kPa
Mean normal stress	p'	26.33	kPa	22.13	kPa
Confining pressures	σ3	9.44	kPa	9.57	kPa
Vertical strain	ε 1	5.55	%	0.97	%
Volumetric strain	ε ν	-2.75	%	0.00	%

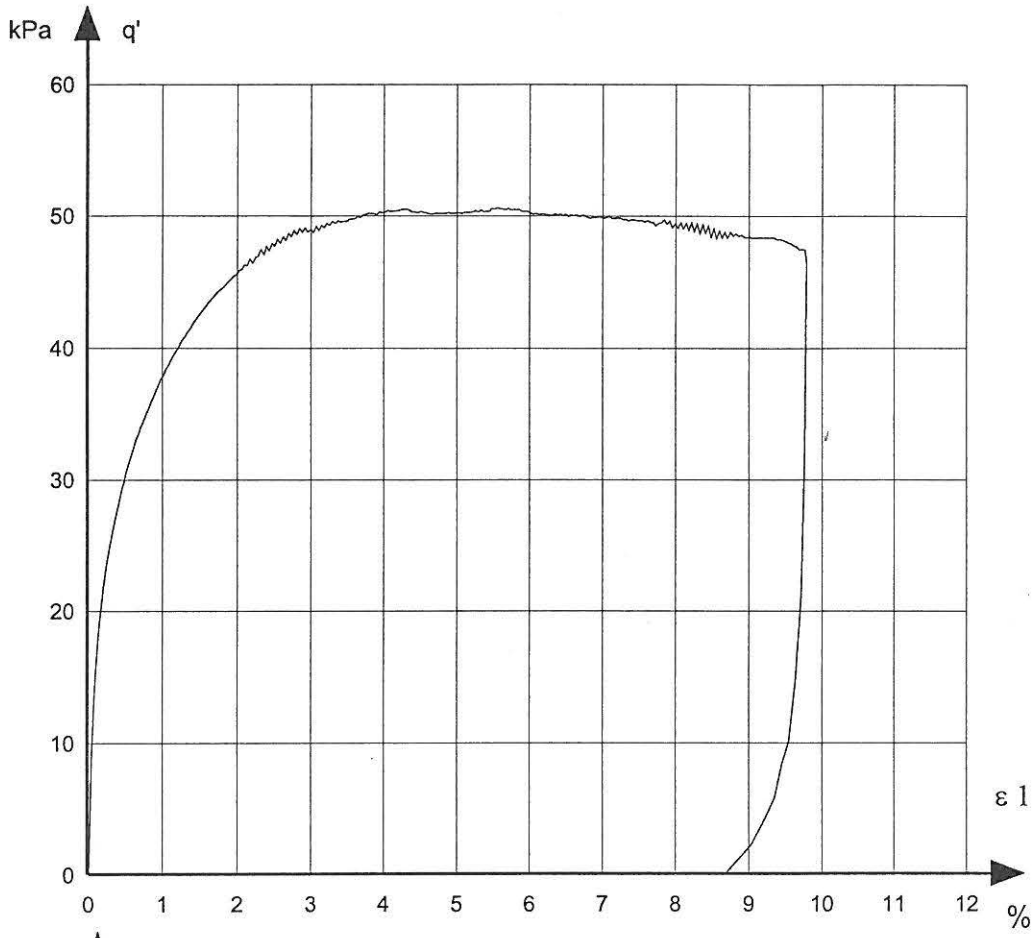


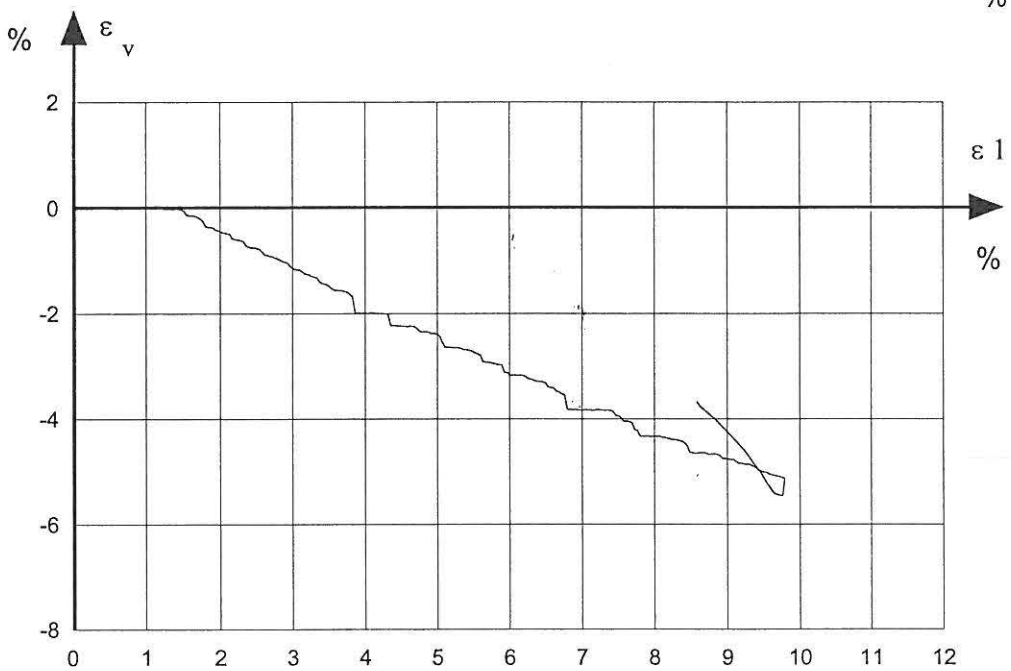


q'	p'	ε 1	ε ν
-0.05	9.30	0.00	0.00
0.00	9.31	-0.00	-0.00
8.67	12.33	0.04	-0.02
15.08	14.47	0.09	-0.01
24.10	17.48	0.26	-0.01
31.86	19.93	0.57	-0.01
37.69	22.13	0.97	0.00
43.50	23.94	1.62	-0.14
47.07	25.00	2.35	-0.70
48.43	25.59	2.73	-0.92
48.89	25.87	3.10	-1.17
49.61	25.98	3.48	-1.45
50.20	26.18	3.86	-1.99
50.52	26.54	4.23	-2.00
50.20	26.18	4.61	-2.23
50.26	26.19	4.99	-2.38
50.65	26.33	5.55	-2.75
50.15	26.29	6.11	-3.17
49.94	26.09	6.86	-3.81
49.70	26.01	7.61	-4.04
49.42	25.66	8.37	-4.42
48.39	25.32	9.12	-4.81
21.17	16.63	9.71	-5.44
10.17	12.20	9.54	-5.22

Job:	Encl. No
Lund No 0	13
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 -0.041



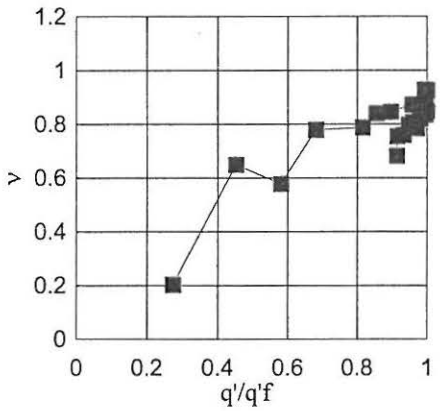


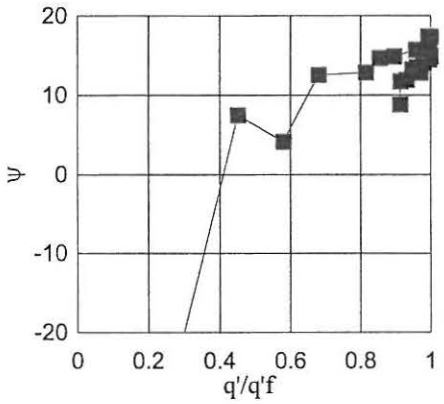
Job: Lund No 0	Encl. No 14
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.9	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.612	0.669
		Saturation	1.03	
kal_tri4	6.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-10	kPa
CD - Triaxial test.		ε 1	0.003	%
free ends		ε ν	-0.004	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	53.56	kPa	14.68	kPa
Mean normal stress	p'	28.06	kPa	15.36	kPa
Confining pressures	σ3	10.21	kPa	10.46	kPa
Vertical strain	ε 1	5.36	%	0.01	%
Volumetric strain	ε ν	-3.55	%	0.01	%

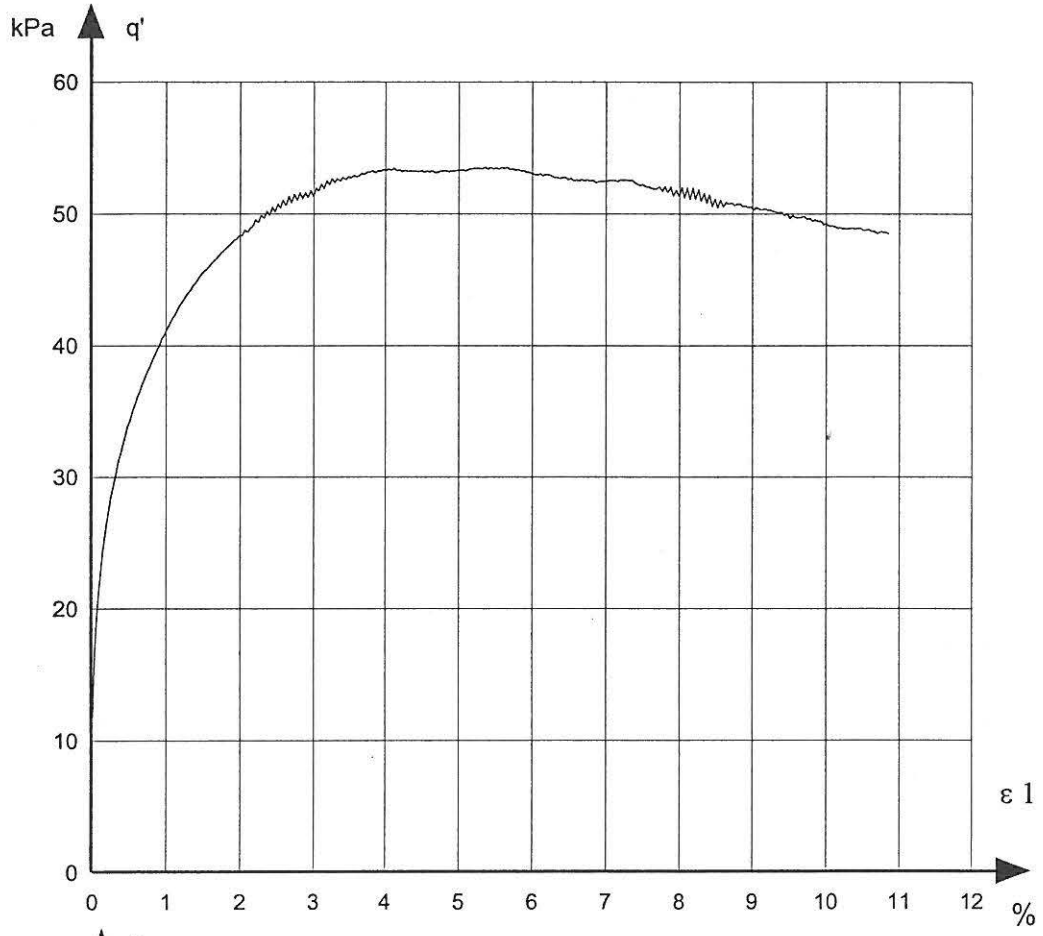


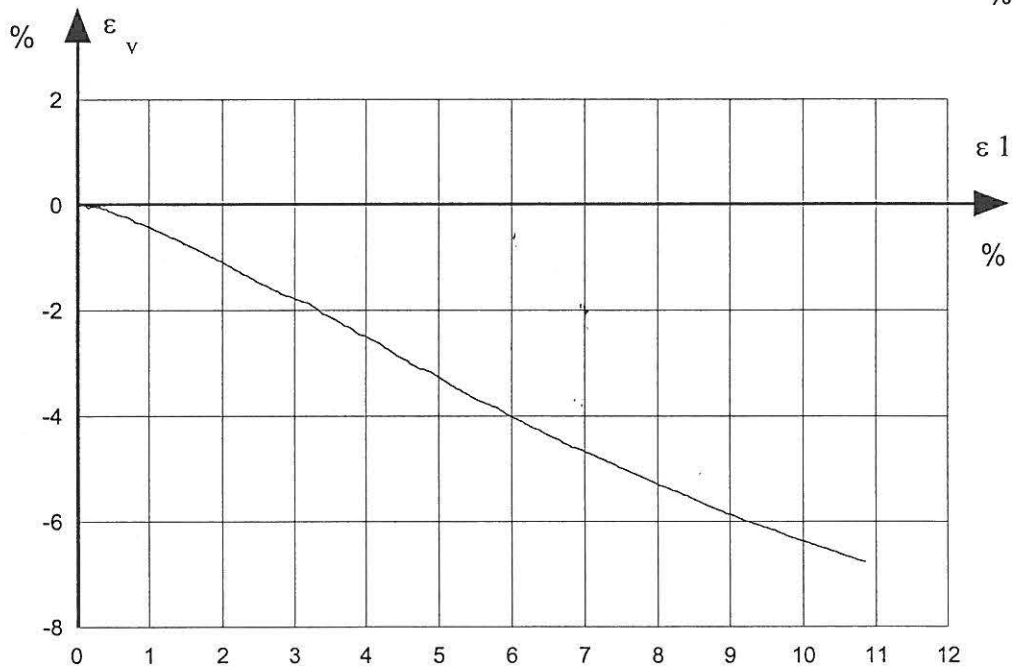


q'	p'	ε 1	ε ν
11.87	14.29	0.00	0.00
14.68	15.36	0.01	0.01
24.20	18.40	0.13	-0.03
31.08	20.70	0.34	-0.06
36.45	22.61	0.63	-0.22
43.67	24.76	1.25	-0.58
45.81	25.48	1.54	-0.77
48.00	26.34	1.91	-1.03
51.32	27.44	2.65	-1.58
51.97	27.66	3.03	-1.79
52.81	27.94	3.40	-2.06
53.18	28.06	3.78	-2.32
53.30	28.10	4.15	-2.60
53.20	27.69	4.53	-2.92
53.28	27.84	4.90	-3.17
53.56	28.06	5.36	-3.55
53.56	28.06	5.66	-3.76
52.78	27.80	6.40	-4.29
52.46	27.70	7.16	-4.77
51.37	27.08	7.91	-5.23
50.77	27.13	8.67	-5.69
49.91	26.84	9.43	-6.08
48.97	26.40	10.19	-6.47
48.91	26.39	10.27	-6.49

Job:	Encl. No
Lund No 0	15
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.036



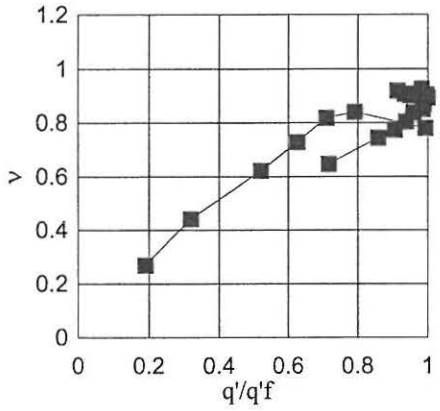


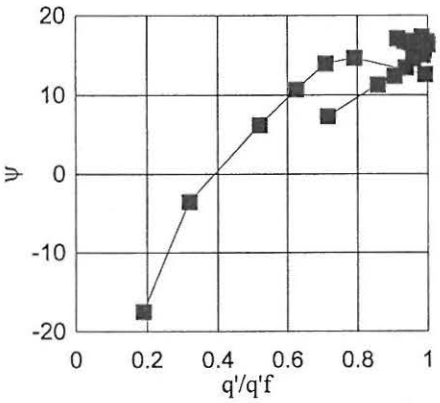
Job: Lund No 0	Encl. No 16
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.617	0.675
		Saturation	1.04	
kal_tri4	07.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-5 kPa
CD - Triaxial test.		ε 1	-0.006 %
free ends		ε ν	0.000 %
	2.Drained compression.		
	Deformation rate:		8.6 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	35.14	kPa	11.22	kPa
Mean normal stress	p'	16.69	kPa	8.72	kPa
Confining pressures	σ3	4.98	kPa	4.98	kPa
Vertical strain	ε 1	5.13	%	0.11	%
Volumetric strain	ε ν	-3.57	%	0.03	%

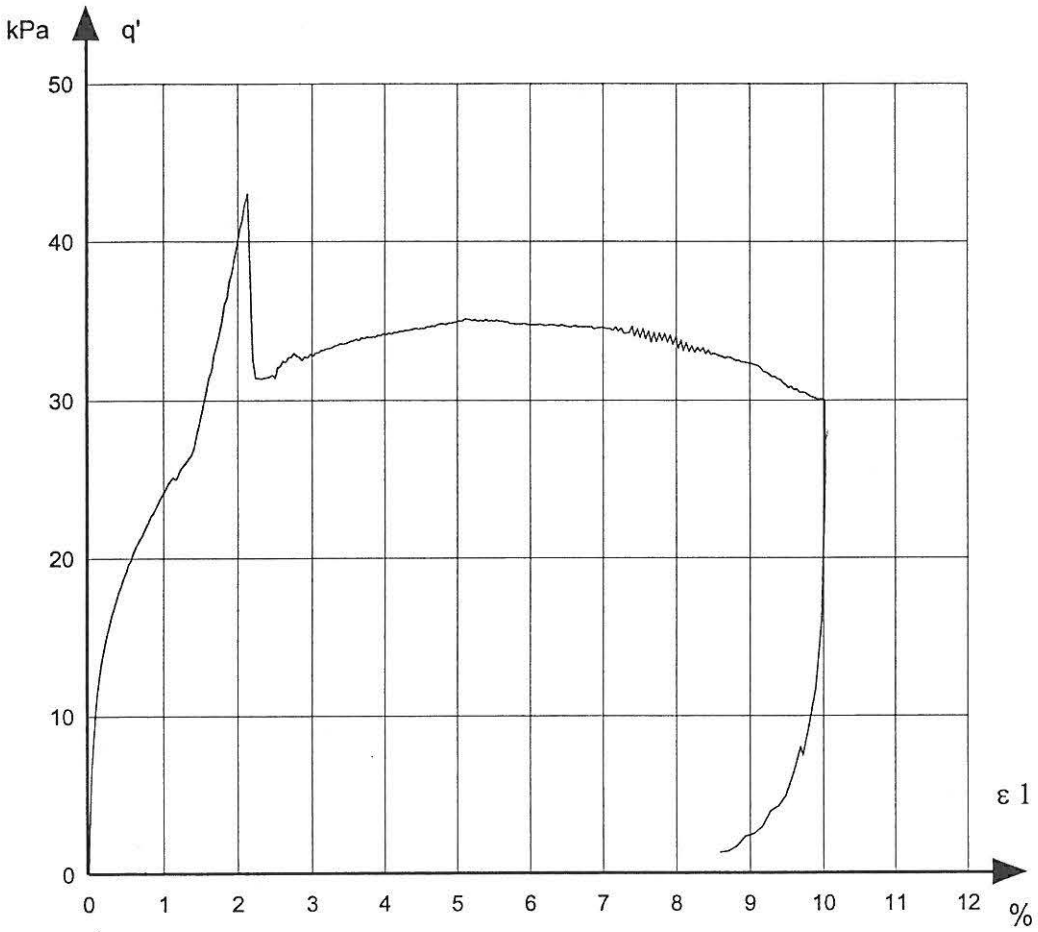


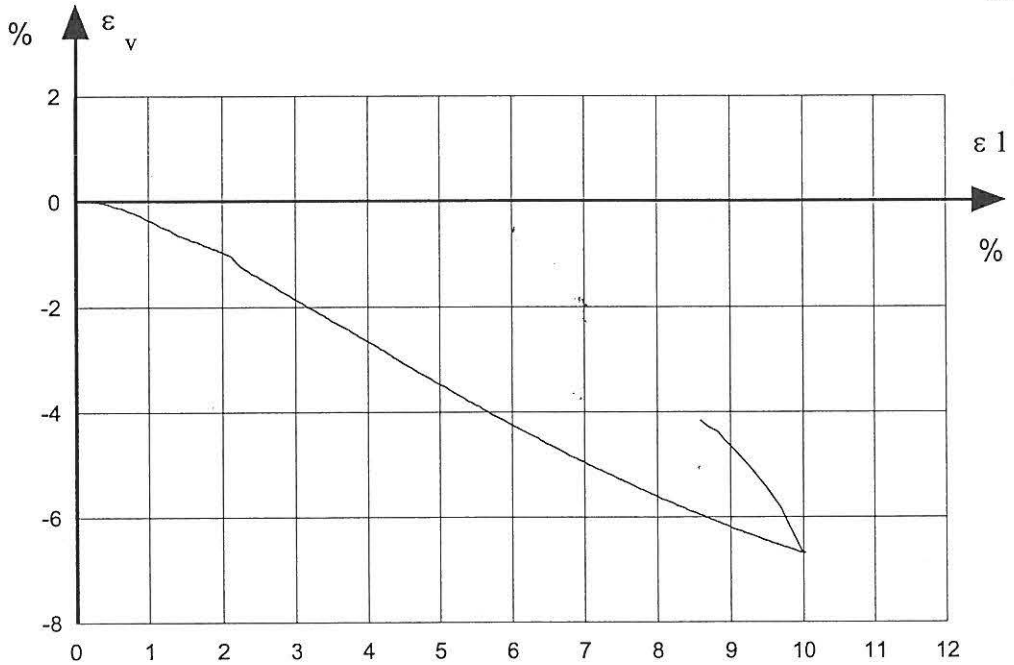


q'	p'	ε 1	ε ν
0.00	4.98	0.00	0.00
6.67	7.20	0.04	0.02
11.22	8.72	0.11	0.03
18.27	11.06	0.43	-0.05
22.00	12.31	0.75	-0.20
24.94	13.42	1.09	-0.41
27.79	14.50	1.44	-0.65
34.87	18.64	1.78	-0.84
32.08	15.80	2.53	-1.47
32.77	16.03	2.90	-1.77
33.31	16.08	3.27	-2.06
33.75	16.23	3.64	-2.36
34.13	16.35	4.01	-2.66
34.50	16.48	4.39	-2.98
34.82	16.58	4.76	-3.28
35.14	16.69	5.13	-3.57
34.99	16.77	5.50	-3.87
34.76	16.56	6.24	-4.42
34.63	16.52	6.98	-4.94
33.66	16.20	7.73	-5.44
32.90	16.07	8.47	-5.89
31.78	15.44	9.22	-6.30
30.13	15.15	9.98	-6.67
25.17	13.37	10.02	-6.68

Job:	Encl. No
Lund No 0	17
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 -0.055



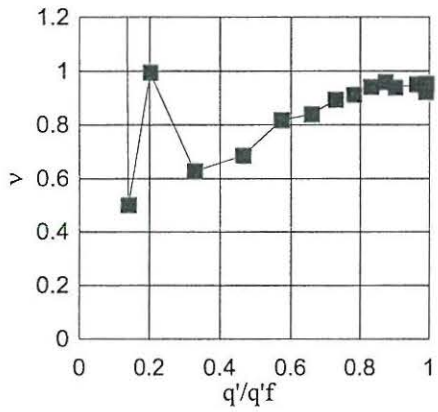


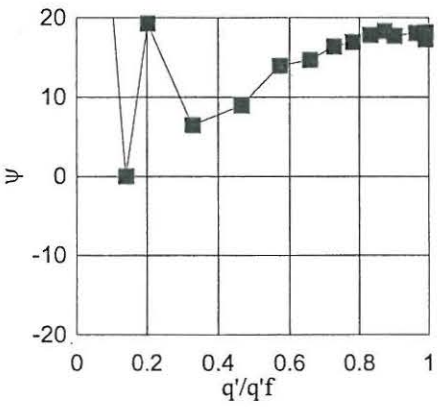
Job: Lund No 0	Encl. No 18
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.9	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.606	0.690
		Saturation	1.05	
kal_tri4	10.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-5	kPa
CD - Triaxial test.		ε 1	-0.115	%
free ends		ε ν	-0.785	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	41.47	kPa	0.05	kPa
Mean normal stress	p'	19.06	kPa	4.87	kPa
Confining pressures	σ3	5.23	kPa	4.85	kPa
Vertical strain	ε 1	6.42	%	0.00	%
Volumetric strain	ε ν	-5.23	%	0.01	%

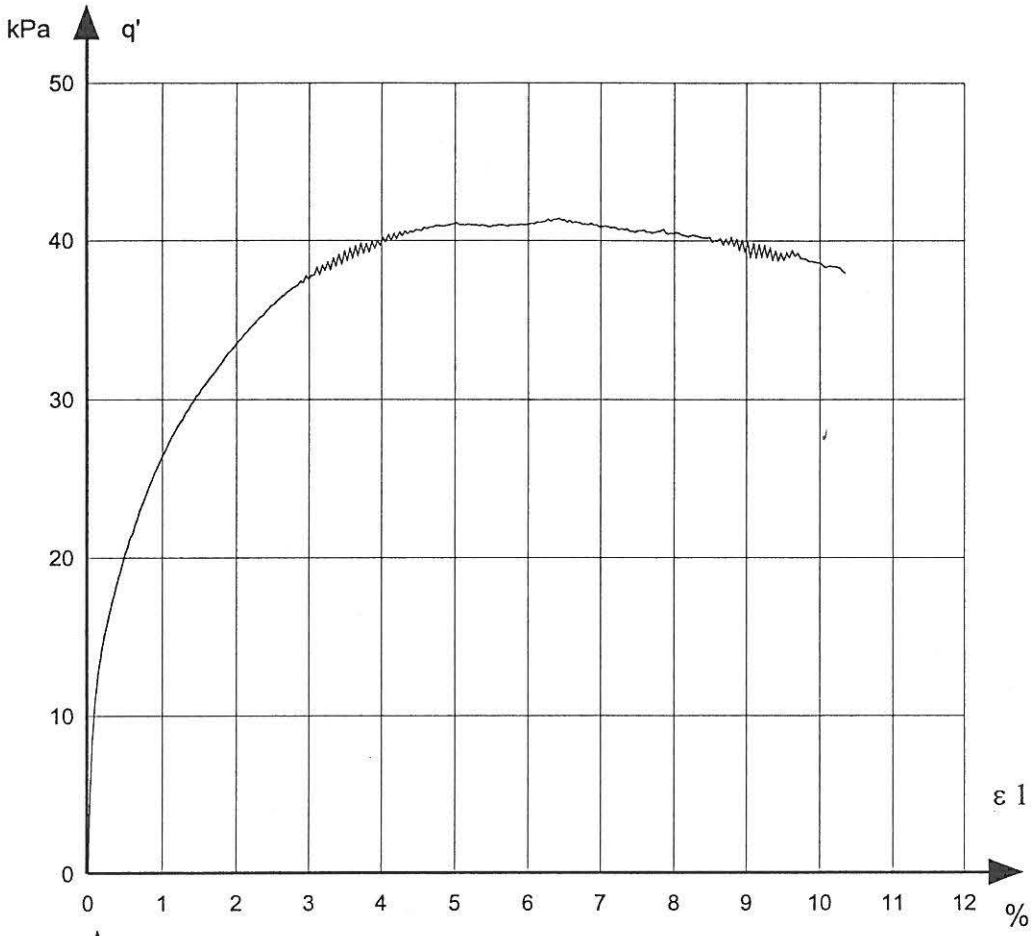


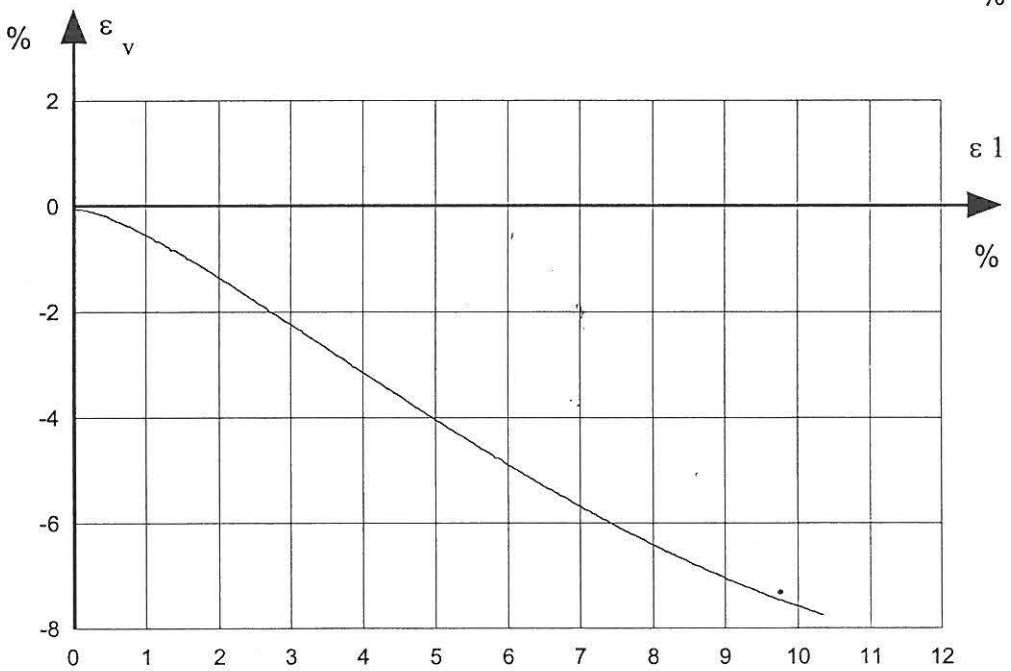


q'	p'	ε 1	ε ν
0.05	4.87	0.00	0.01
0.45	5.13	0.00	-0.02
5.77	7.03	0.03	-0.02
8.40	7.78	0.06	-0.05
13.65	9.53	0.17	-0.08
19.28	11.40	0.44	-0.18
23.76	13.02	0.75	-0.38
27.34	14.09	1.09	-0.60
30.18	15.04	1.44	-0.88
32.40	15.90	1.81	-1.18
34.48	16.60	2.17	-1.50
36.18	17.17	2.55	-1.84
37.35	17.55	2.92	-2.17
39.94	18.42	4.04	-3.18
40.57	18.75	4.42	-3.52
40.96	18.89	4.80	-3.85
41.08	18.80	5.17	-4.19
41.04	18.91	5.93	-4.83
41.47	19.06	6.42	-5.23
40.64	18.78	7.43	-6.00
40.28	18.66	8.18	-6.53
40.07	18.59	8.94	-7.00
39.25	18.31	9.70	-7.43
38.91	18.33	9.77	-7.46

Job:	Encl. No
Lund No 0	19
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.064



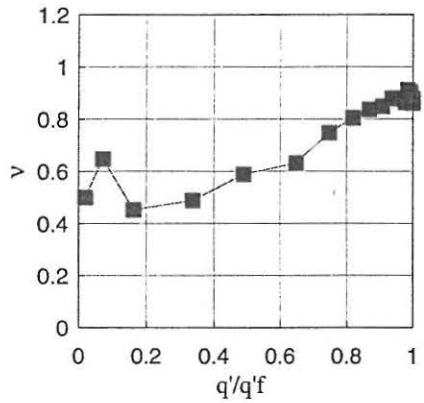


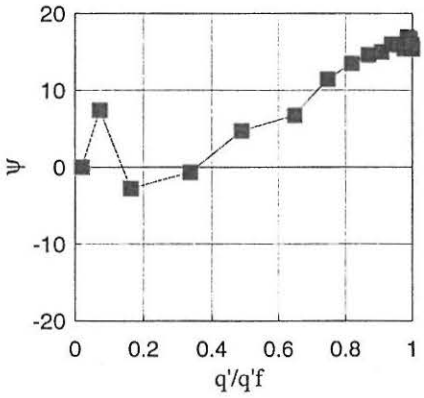
Job: Lund No 0	Encl. No 20
Exc: LBI	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.612	0.668
		Saturation	1.04	
kal_tri3	03.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-40 kPa
CD - Triaxial test.		ε 1	0.000 %
free ends		ε ν	0.000 %
	2.Drained compression.		
	Deformation rate:		10.4 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	173.29	kPa	31.78	kPa
Mean normal stress	p'	97.83	kPa	50.66	kPa
Confining pressures	σ3	40.07	kPa	40.07	kPa
Vertical strain	ε 1	5.62	%	0.22	%
Volumetric strain	ε ν	-3.48	%	0.00	%

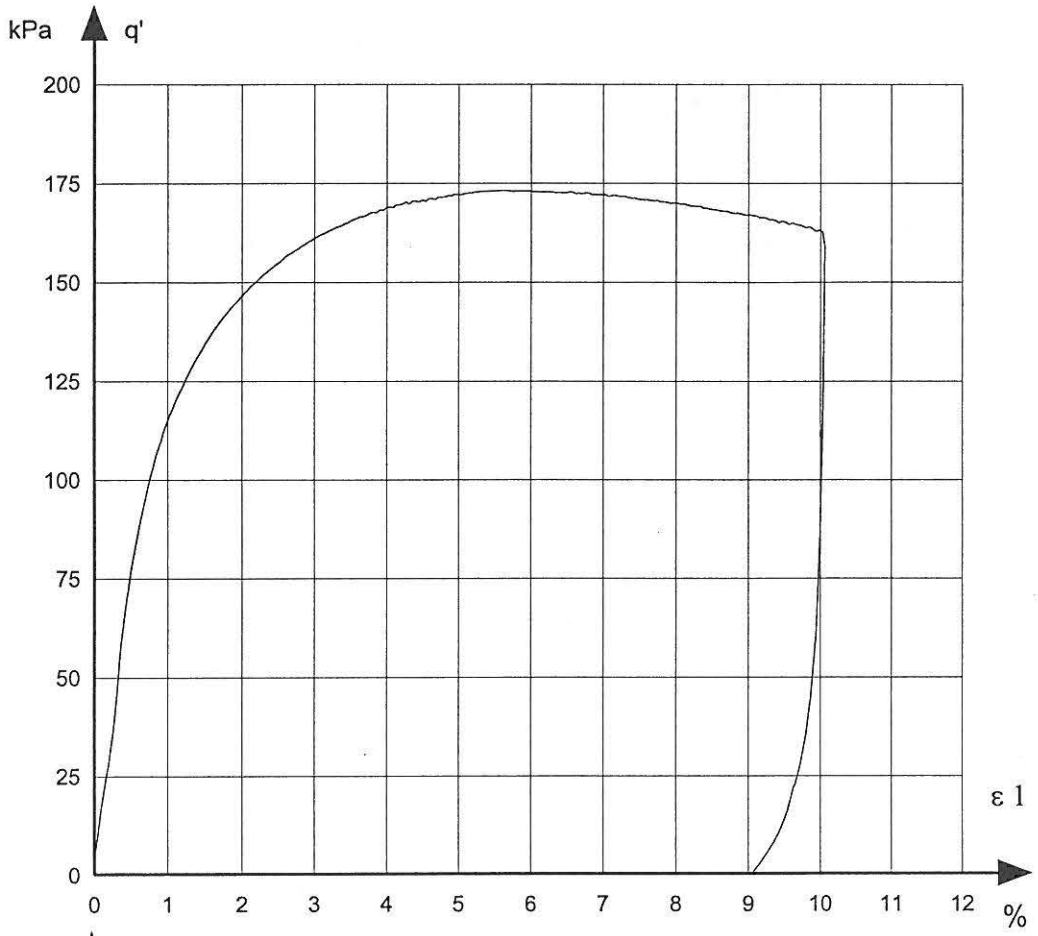


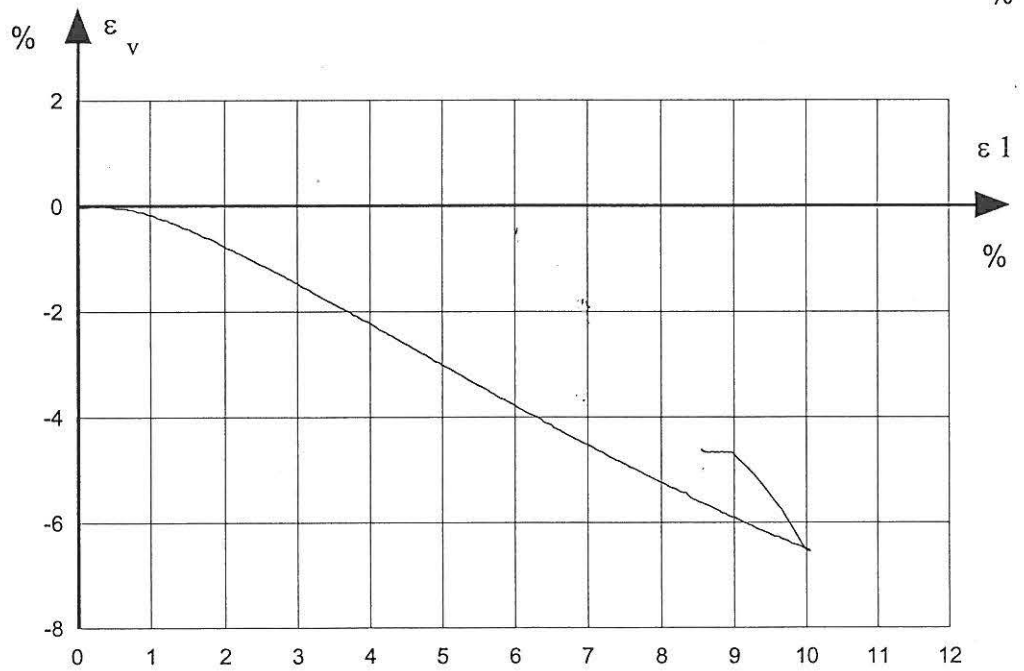


q'	p'	ε 1	ε ν
3.47	41.10	-0.01	0.00
12.52	44.11	0.06	-0.02
28.02	49.41	0.18	-0.01
58.34	59.51	0.36	-0.00
84.60	68.01	0.56	-0.04
112.26	77.36	0.94	-0.14
129.54	83.12	1.34	-0.34
141.77	87.45	1.76	-0.60
150.39	90.07	2.20	-0.89
157.10	92.43	2.64	-1.20
162.19	94.13	3.09	-1.54
166.04	95.28	3.54	-1.88
168.98	96.27	3.99	-2.21
170.39	96.99	4.44	-2.58
171.91	97.37	4.89	-2.94
173.01	97.61	5.35	-3.29
173.29	97.83	5.62	-3.48
172.83	97.55	6.25	-3.96
172.49	97.44	6.70	-4.31
172.06	97.42	7.16	-4.64
170.97	96.93	7.61	-4.96
168.52	96.11	8.51	-5.61
165.18	95.00	9.42	-6.17
27.79	49.46	9.71	-5.90

Job:	Encl. No
Lund No 0	21
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 = 0.012
Deformation during isotropic consolidation not measured.



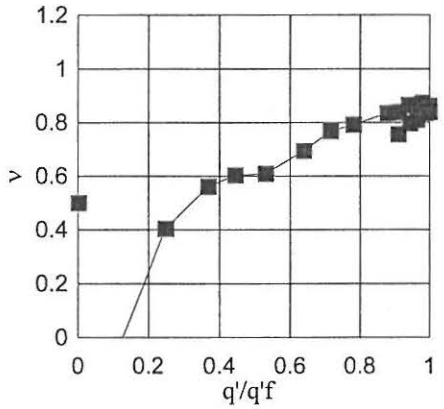


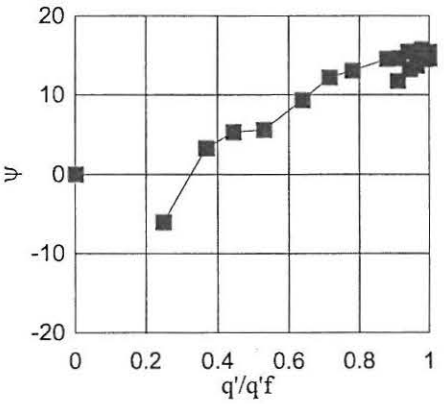
Job: Lund No 0	Encl. No 22
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.618	0.675
		Saturation	1.04	
kal_tri4	12.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-5	kPa
CD - Triaxial test.		ε 1	-0.125	%
free ends		ε ν	-0.433	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	32.85	kPa	8.18	kPa
Mean normal stress	p'	15.92	kPa	7.70	kPa
Confining pressures	σ3	4.98	kPa	4.98	kPa
Vertical strain	ε 1	5.66	%	0.06	%
Volumetric strain	ε ν	-3.56	%	0.02	%

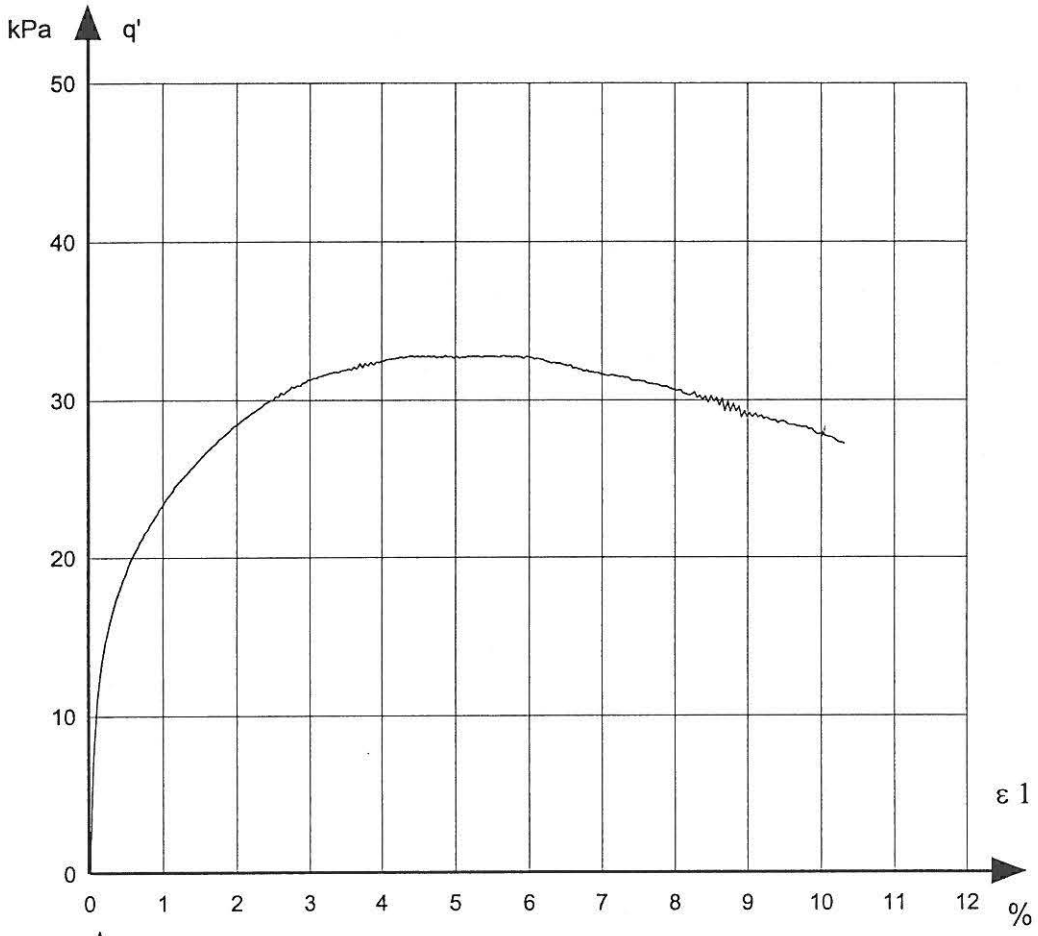


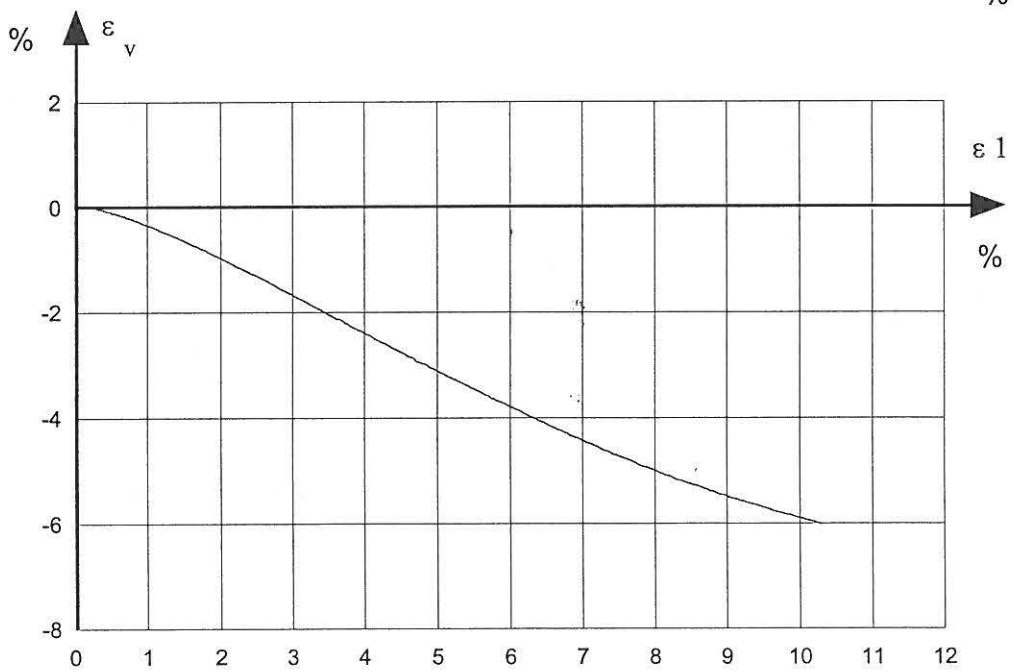


q'	p'	ε 1	ε ν
0.05	4.87	0.00	0.00
0.10	4.88	0.00	-0.01
3.00	5.97	0.02	0.01
8.18	7.70	0.06	0.02
12.12	8.89	0.13	0.01
14.60	9.84	0.20	-0.00
17.41	10.65	0.35	-0.04
20.99	11.97	0.67	-0.16
23.54	12.82	1.02	-0.34
25.66	13.40	1.38	-0.55
28.88	14.47	2.11	-1.05
29.99	15.10	2.49	-1.30
30.90	15.28	2.86	-1.57
31.64	15.52	3.24	-1.85
32.14	15.69	3.61	-2.13
32.49	15.81	3.99	-2.38
32.79	15.91	4.37	-2.66
32.72	15.88	4.75	-2.93
32.73	15.89	5.13	-3.20
32.85	15.92	5.66	-3.56
32.46	15.80	6.26	-3.96
31.66	15.53	7.01	-4.43
31.01	15.18	7.77	-4.88
29.90	14.82	8.53	-5.26

Job:	Encl. No
Lund No 0	23
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.066



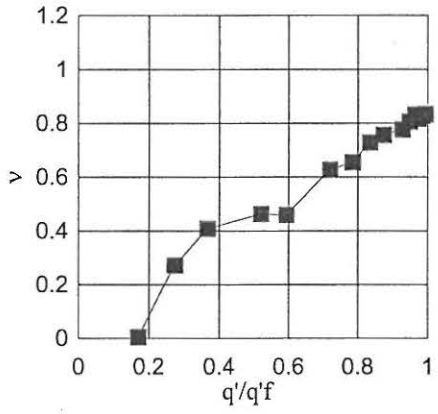


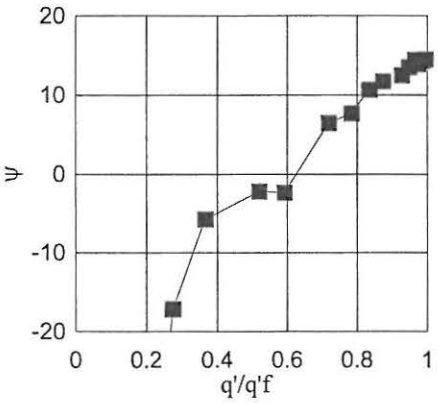
Job: Lund No 0	Encl. No 24
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.5	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.617	0.663
		Saturation	1.05	
kal_tri4	13.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-80	kPa
CD - Triaxial test.		ε 1	-0.011	%
free ends		ε ν	-0.248	%
	2.Drained compression.			
	Deformation rate:		8.1	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	304.72	kPa	180.68	kPa
Mean normal stress	p'	182.47	kPa	141.00	kPa
Confining pressures	σ3	80.90	kPa	80.77	kPa
Vertical strain	ε 1	5.82	%	0.58	%
Volumetric strain	ε ν	-2.84	%	0.15	%

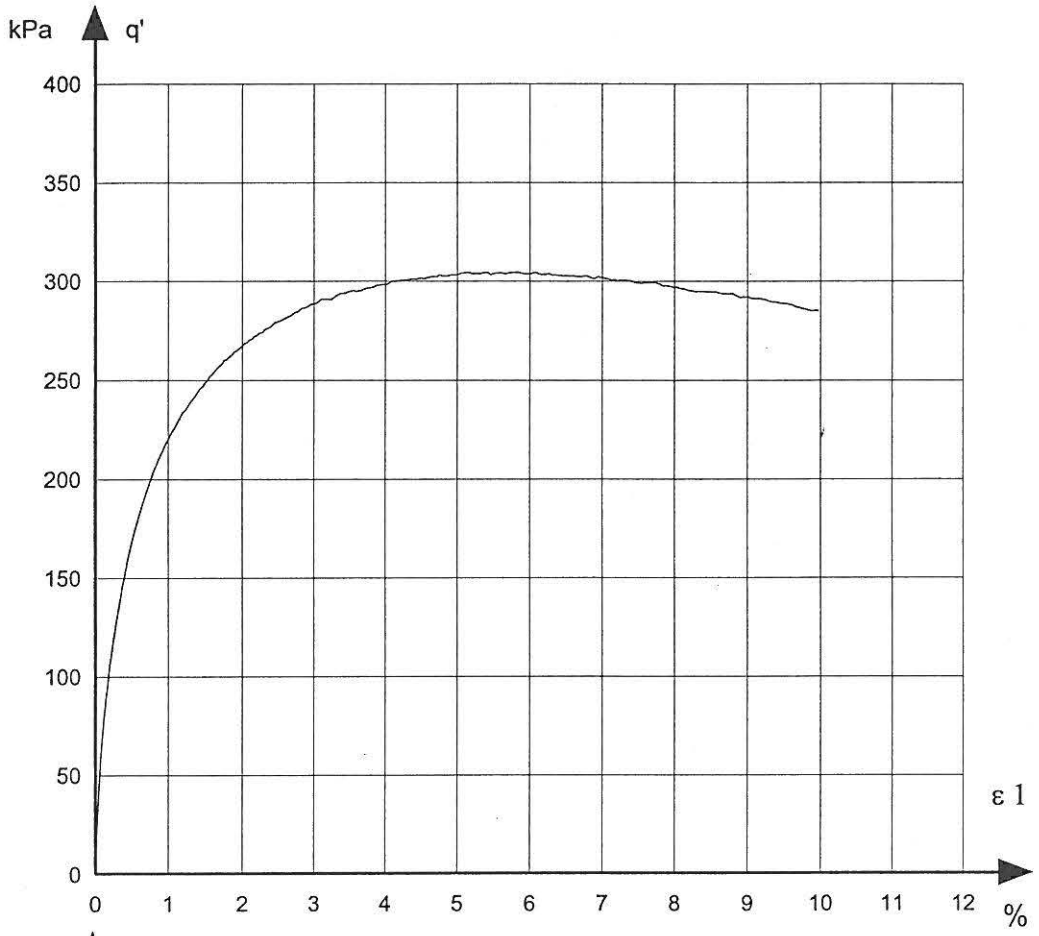


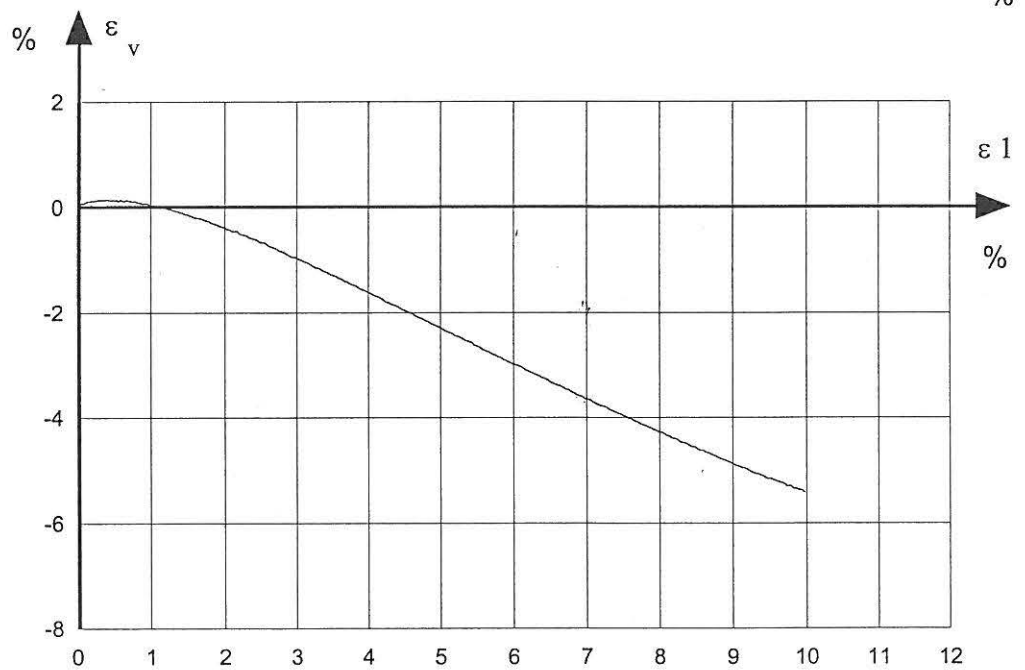


q'	p'	ε 1	ε ν
0.00	80.77	0.00	0.00
9.10	83.68	0.01	0.02
30.14	90.69	0.03	0.05
51.49	97.80	0.06	0.08
83.54	108.62	0.13	0.11
111.59	117.97	0.21	0.12
158.46	133.72	0.43	0.14
180.68	141.00	0.58	0.15
219.34	153.88	0.98	0.05
239.24	160.65	1.29	-0.04
254.44	165.58	1.62	-0.19
266.26	169.27	1.96	-0.36
282.57	174.83	2.66	-0.75
288.81	176.91	3.01	-0.97
293.95	179.01	3.37	-1.20
296.56	179.62	3.73	-1.43
300.18	181.09	4.09	-1.67
302.82	181.58	4.83	-2.16
304.72	182.47	5.82	-2.84
303.14	181.43	6.31	-3.17
301.36	180.97	7.05	-3.67
298.71	180.47	7.80	-4.15
294.78	179.16	8.55	-4.62
289.81	177.25	9.31	-5.05

Job:	Encl. No
Lund No 0	25
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.037



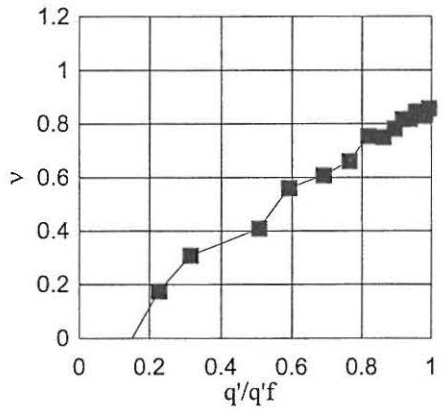


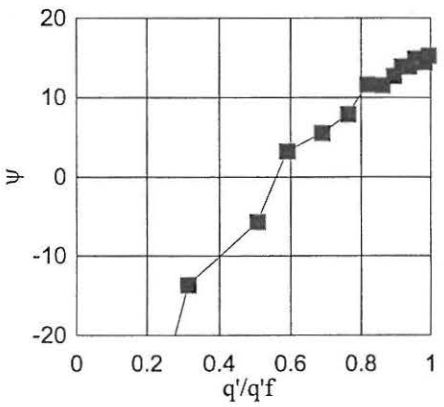
Job: Lund No 0	Encl. No 26
Exc:	Check:
LBI, AMS	FRJ

Description of soil Lund No 0			Before test	At failure
		Water content %		
		Grain density	2.65	
Calibration file	Date	Void ratio	0.613	0.654
		Saturation		
kal_tri4	17.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-80	kPa
CD - Triaxial test.		ε 1	-0.014	%
free ends		ε ν	-0.080	%
	2.Drained compression.			
	Deformation rate:		7.9	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	297.51	kPa	150.92	kPa
Mean normal stress	p'	179.43	kPa	130.57	kPa
Confining pressures	σ3	80.26	kPa	80.26	kPa
Vertical strain	ε 1	5.19	%	0.47	%
Volumetric strain	ε ν	-2.52	%	0.20	%

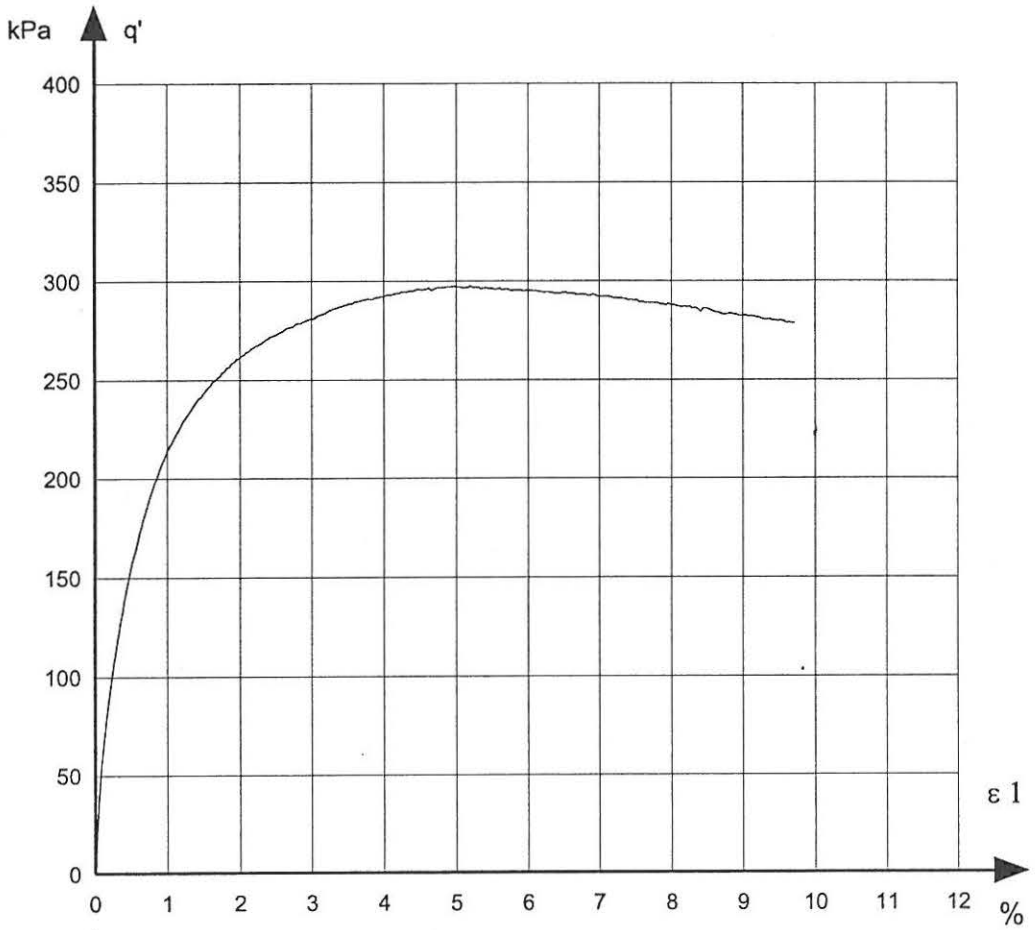


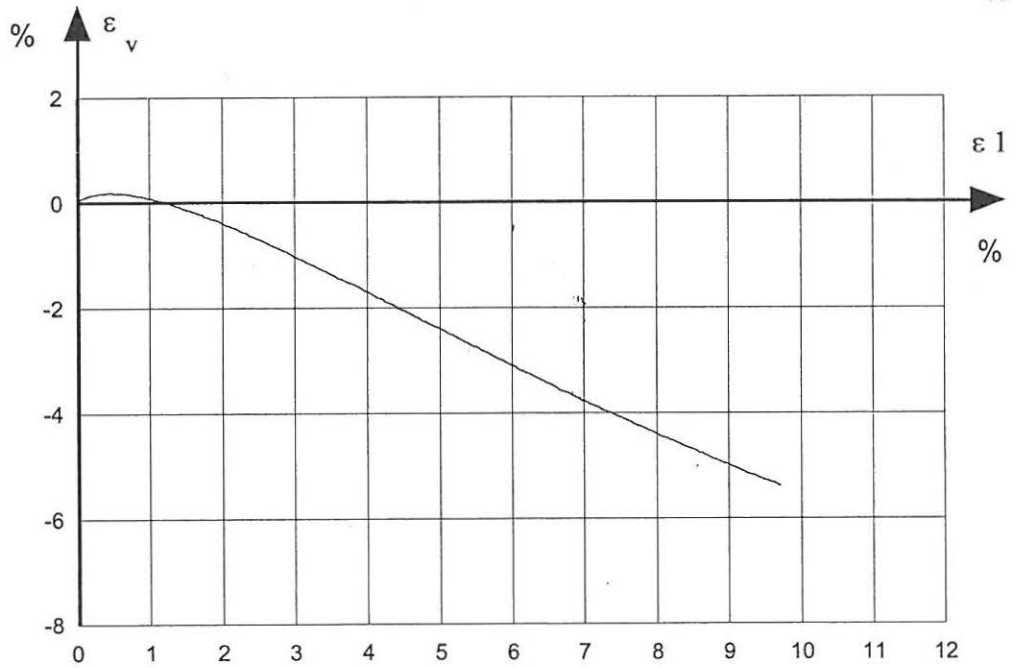


q'	p'	ε 1	ε ν
0.60	80.21	0.00	0.00
9.66	83.35	0.01	0.03
39.04	93.02	0.05	0.08
67.66	102.43	0.12	0.12
93.48	111.17	0.20	0.15
150.92	130.57	0.47	0.20
175.95	138.78	0.63	0.18
205.12	148.51	0.90	0.12
227.34	155.91	1.18	0.03
243.41	161.14	1.49	-0.12
256.33	165.58	1.82	-0.28
265.85	168.62	2.15	-0.47
272.83	170.82	2.49	-0.69
278.77	172.80	2.84	-0.91
284.17	174.73	3.20	-1.15
288.73	176.25	3.56	-1.39
291.88	177.17	3.92	-1.63
295.47	178.24	4.65	-2.16
297.51	179.43	5.19	-2.52
295.08	178.24	6.11	-3.17
292.69	177.44	6.85	-3.67
289.69	176.44	7.59	-4.13
286.68	175.69	8.33	-4.59
282.27	173.97	9.07	-5.02

Job:	Encl. No
Lund No 0	27
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.074
Saturation not measured.



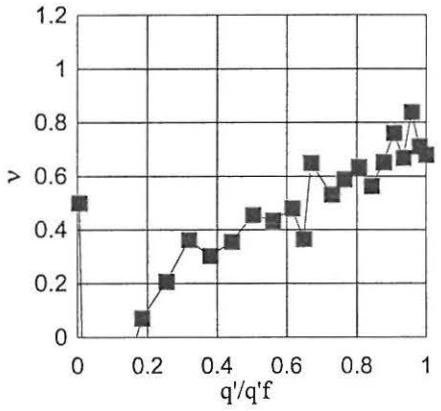


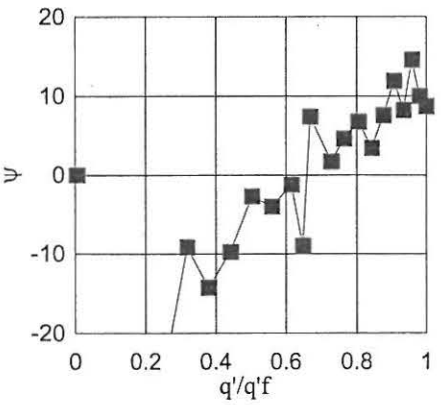
Job: Lund No 0	Encl. No 28
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.0	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.610	
		Saturation	1.09	
kal_tri4	18.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.041	%
free ends		ε ν	0.072	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure	Values for Δε ν = 0	
Deviator stress	q'		331.12	kPa
Mean normal stress	p'		270.77	kPa
Confining pressures	σ3		160.39	kPa
Vertical strain	ε 1		0.73	%
Volumetric strain	ε ν		0.29	%

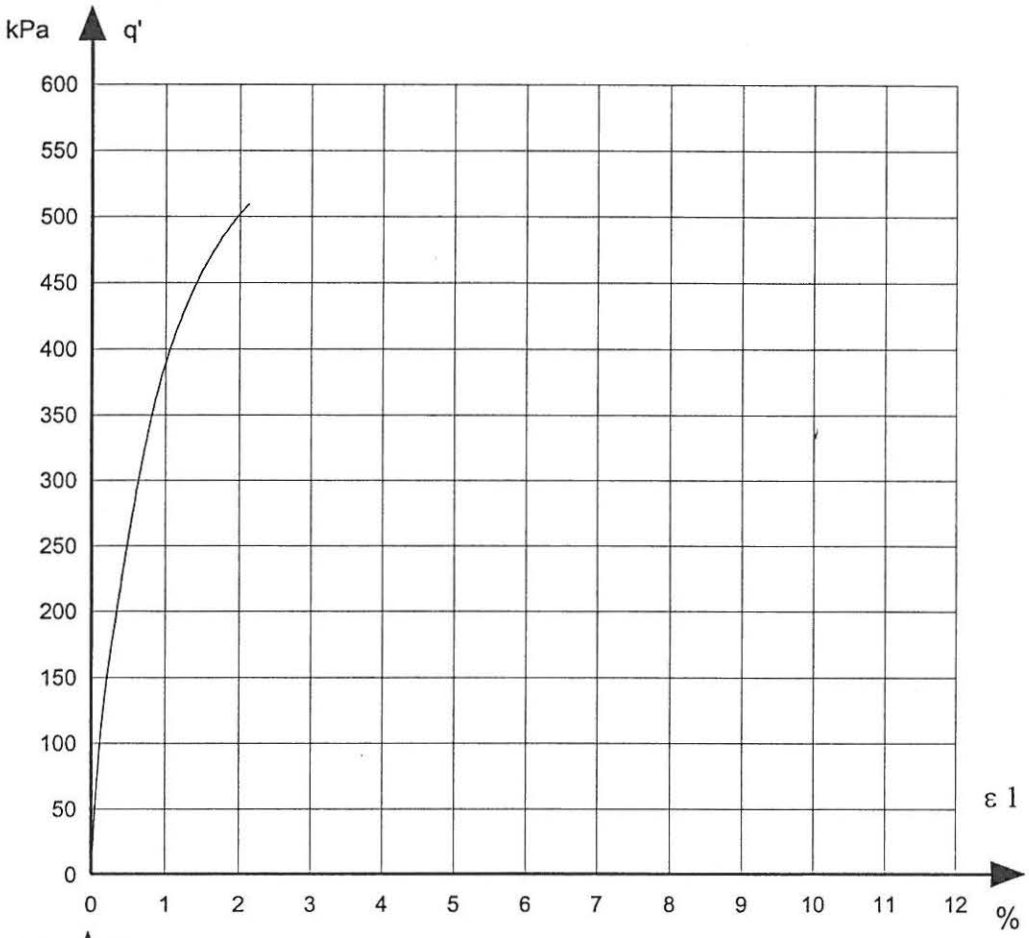


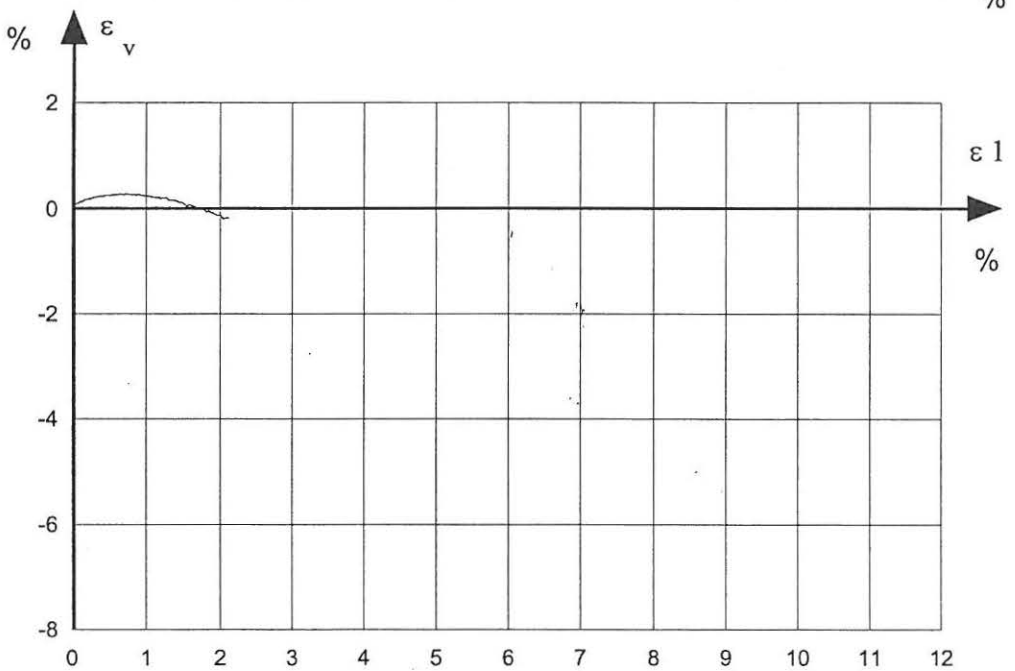


q'	p'	ε 1	ε ν
-0.05	160.12	0.00	0.00
2.60	161.13	0.00	0.00
16.53	165.65	0.01	0.04
55.43	178.49	0.05	0.09
93.81	191.41	0.10	0.14
129.75	203.52	0.16	0.17
162.48	214.17	0.23	0.19
193.73	224.71	0.32	0.22
225.42	235.53	0.40	0.25
255.98	245.59	0.49	0.26
285.48	255.68	0.58	0.27
314.25	265.02	0.68	0.27
331.12	270.77	0.73	0.29
341.81	274.20	0.78	0.28
371.69	284.04	0.91	0.27
389.98	290.26	1.00	0.25
410.83	297.21	1.12	0.22
429.66	303.36	1.25	0.20
446.92	309.24	1.38	0.16
462.12	314.30	1.52	0.09
475.85	318.63	1.66	0.04
488.47	322.96	1.81	-0.06
499.95	326.92	1.96	-0.12
509.78	330.07	2.12	-0.18

Job:	Encl. No
Lund No 0	29
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.072
The test was stopped before failure.



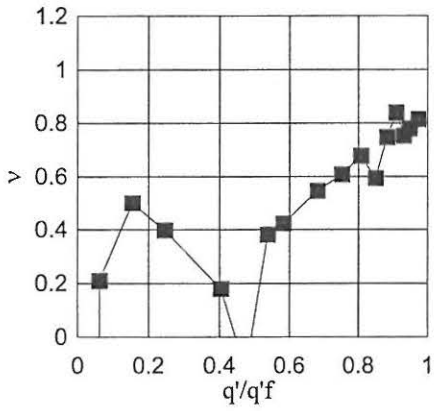


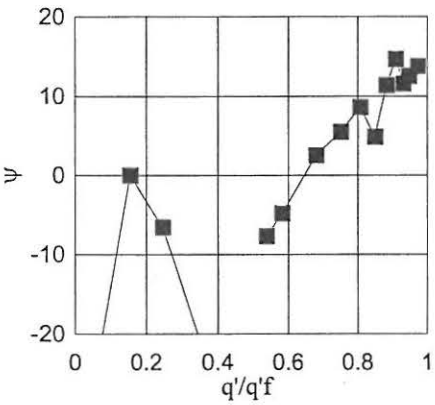
Job: Lund No 0	Encl. No 30
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.4	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.614	0.660
		Saturation	1.05	
kal_tri3	19.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.036	%
free ends		ε ν	0.168	%
	2.Drained compression.			
	Deformation rate:		7.3	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	592.09	kPa	345.10	kPa
Mean normal stress	p'	357.63	kPa	275.81	kPa
Confining pressures	σ3	160.27	kPa	160.78	kPa
Vertical strain	ε 1	6.76	%	0.70	%
Volumetric strain	ε ν	-2.90	%	0.40	%

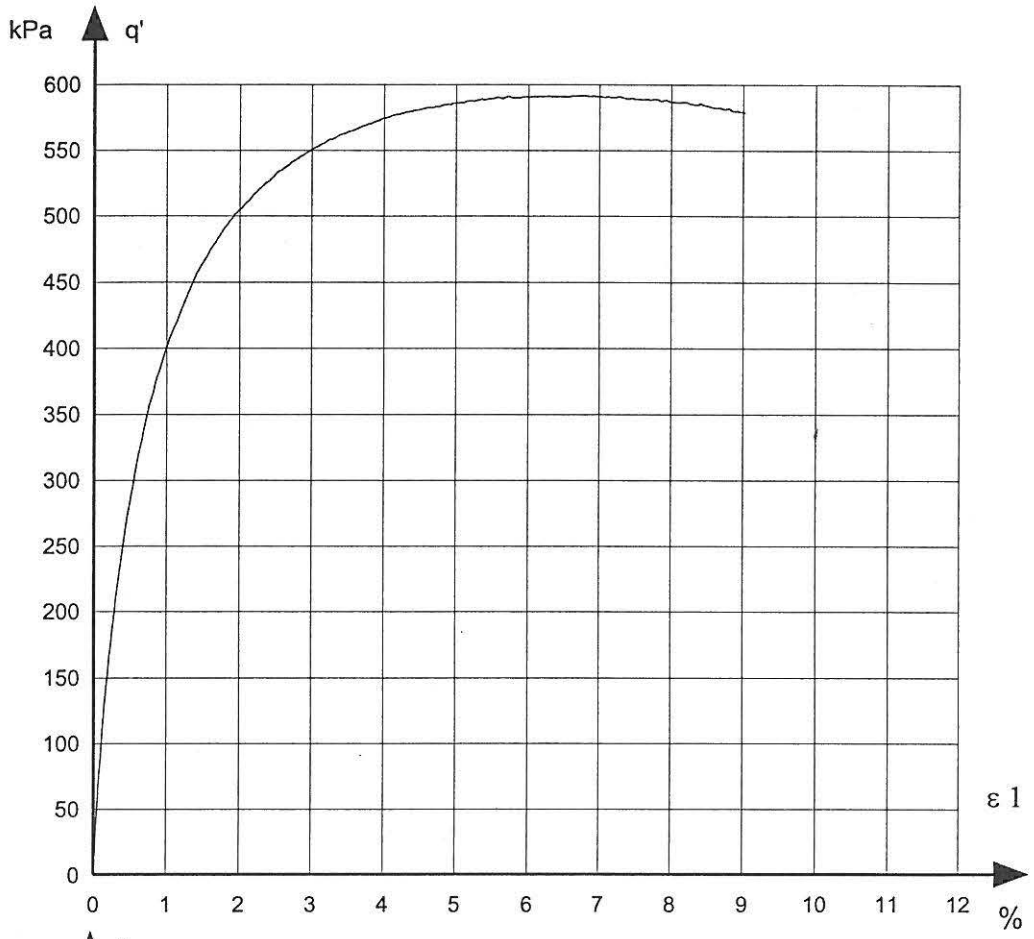


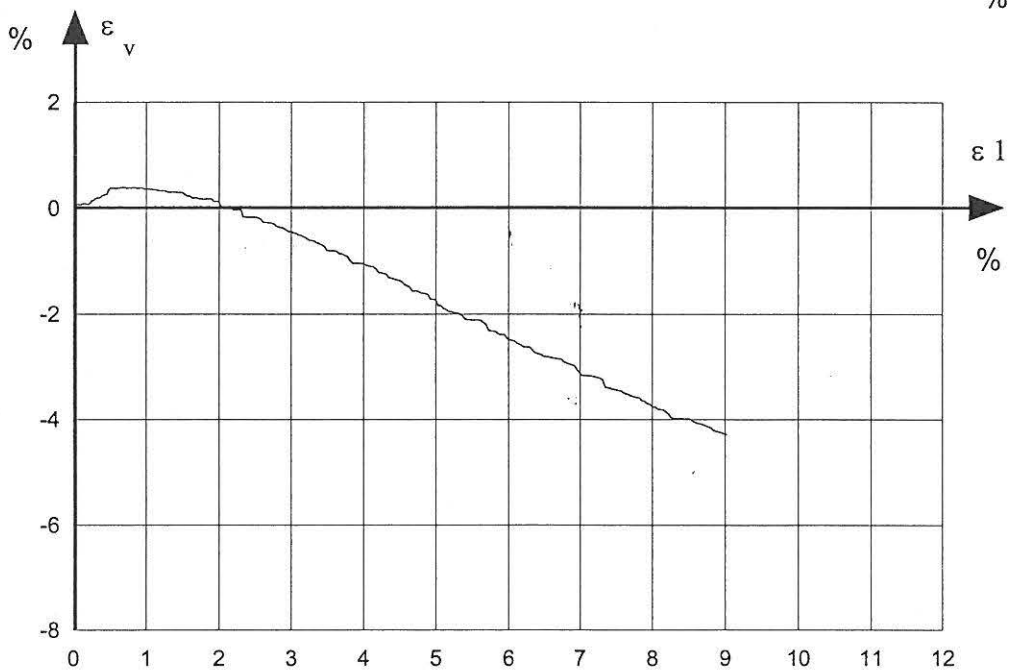


q'	p'	ε 1	ε ν
-1.21	159.99	0.00	0.00
2.57	161.25	0.00	0.05
36.41	171.51	0.03	0.07
91.05	192.02	0.09	0.07
145.47	209.39	0.17	0.08
239.47	241.11	0.37	0.21
281.02	255.21	0.48	0.35
318.43	267.81	0.60	0.38
345.10	275.81	0.70	0.40
403.36	294.97	1.01	0.37
445.38	309.87	1.31	0.30
477.83	320.94	1.63	0.19
502.93	328.68	1.96	0.13
522.16	335.59	2.30	-0.04
537.89	341.22	2.64	-0.27
550.76	343.21	2.99	-0.44
560.74	346.79	3.34	-0.64
575.66	353.17	4.06	-1.09
582.83	356.07	4.59	-1.45
589.84	356.50	5.50	-2.11
591.40	357.14	6.22	-2.61
592.09	357.63	6.76	-2.90
589.27	357.07	7.67	-3.52
585.93	356.47	8.40	-3.97

Job:	Encl. No
Lund No 0	31
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.067



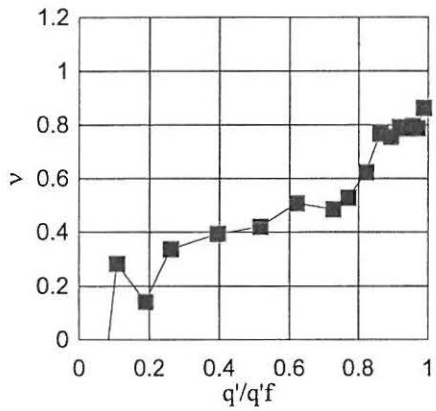


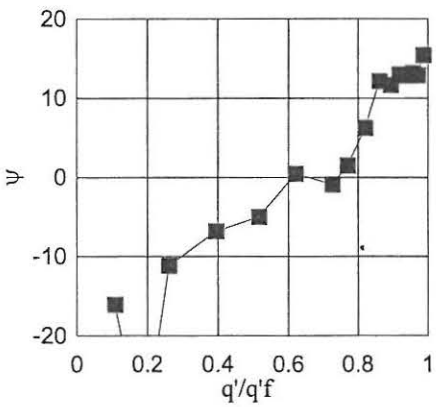
Job: Lund No 0	Encl. No 32
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.614	0.649
		Saturation	1.05	
kal_tri3	19.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.034	%
free ends		ε ν	0.120	%
	2.Drained compression.			
	Deformation rate:		8.0	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	606.84	kPa	441.19	kPa
Mean normal stress	p'	363.31	kPa	308.22	kPa
Confining pressures	σ3	161.03	kPa	161.16	kPa
Vertical strain	ε 1	6.15	%	1.39	%
Volumetric strain	ε ν	-2.39	%	0.24	%

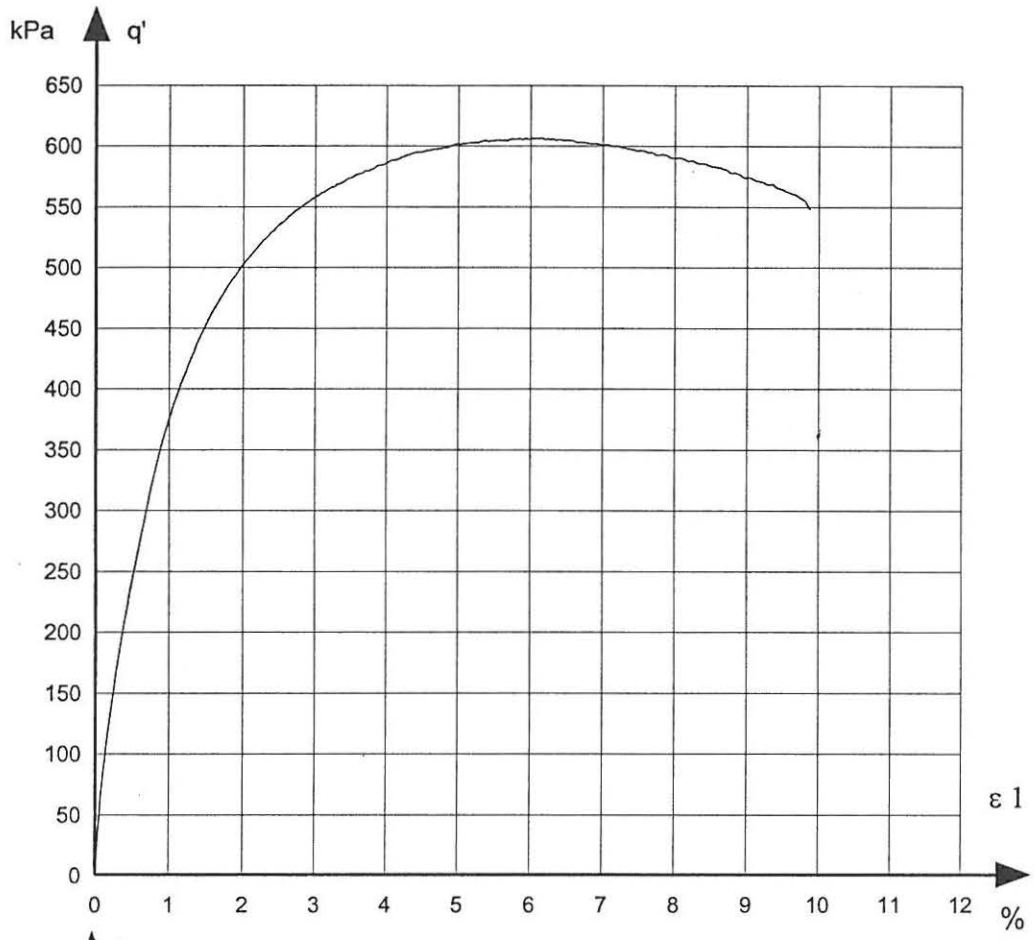


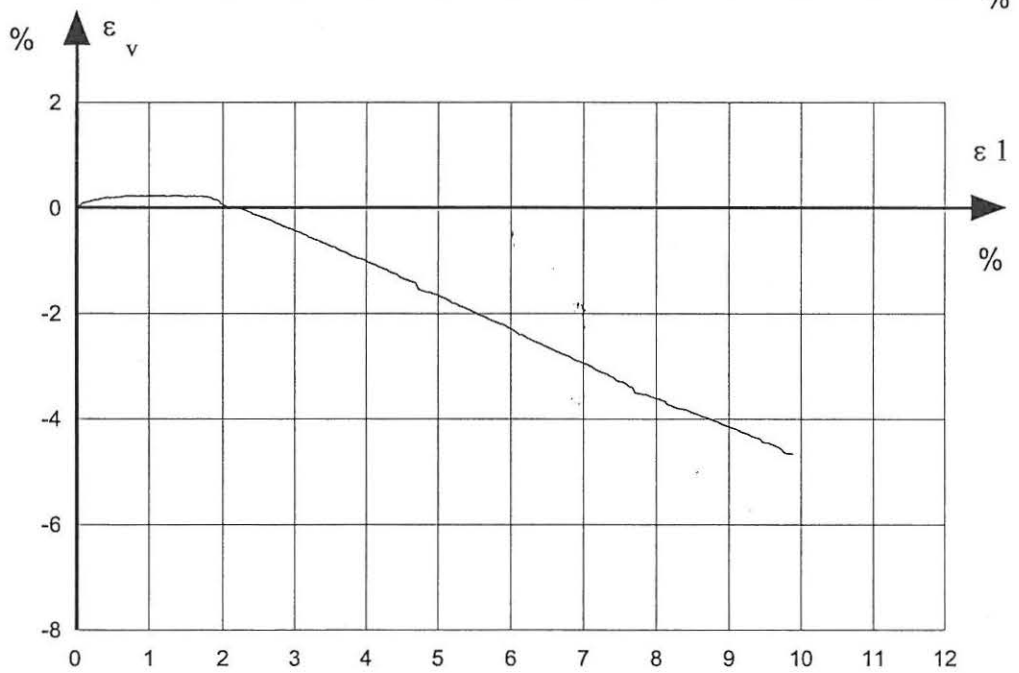


q'	p'	ε 1	ε ν
0.00	160.90	0.00	0.00
17.96	166.89	0.01	0.03
65.19	182.38	0.07	0.06
114.21	198.98	0.15	0.12
159.22	213.85	0.25	0.15
239.91	241.00	0.48	0.20
313.45	265.26	0.73	0.24
376.83	286.51	1.00	0.23
441.19	308.22	1.39	0.24
467.83	316.85	1.61	0.23
498.50	327.07	1.94	0.15
523.15	335.54	2.28	-0.03
542.23	341.65	2.63	-0.20
557.39	346.83	2.98	-0.41
569.42	350.58	3.34	-0.61
580.24	354.57	3.70	-0.83
588.60	357.49	4.06	-1.03
599.04	360.71	4.79	-1.56
604.98	362.56	5.52	-1.98
606.84	363.31	6.15	-2.39
601.00	361.11	7.00	-2.94
596.67	359.67	7.55	-3.30
584.14	355.36	8.48	-3.86
570.25	350.99	9.23	-4.27

Job:	Encl. No
Lund No 0	33
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.085



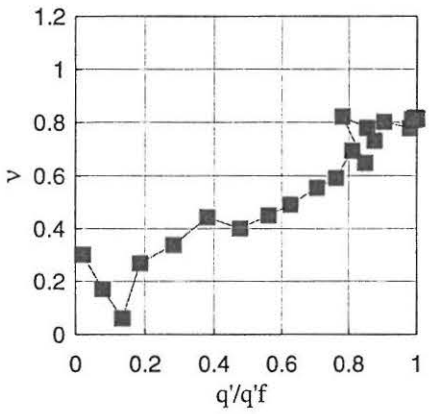


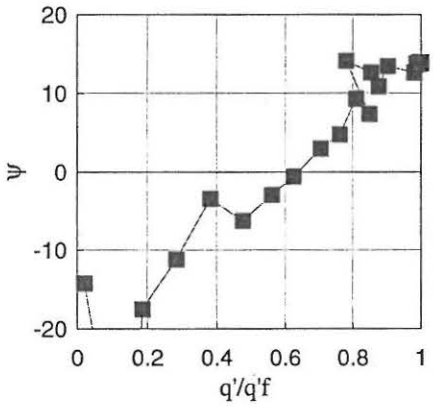
Job: Lund No 0	Encl. No 34
Exc: LBI	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.609	0.649
		Saturation	1.07	
kal_tri3	21.10.88	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-320	kPa
CD - Triaxial test.		ε 1	0.127	%
free ends		ε ν	0.028	%
	2.Drained compression.			
	Deformation rate:		7.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 094.33	kPa	683.83	kPa
Mean normal stress	p'	683.91	kPa	546.81	kPa
Confining pressures	σ3	319.13	kPa	318.87	kPa
Vertical strain	ε 1	6.74	%	1.32	%
Volumetric strain	ε ν	-2.50	%	0.31	%

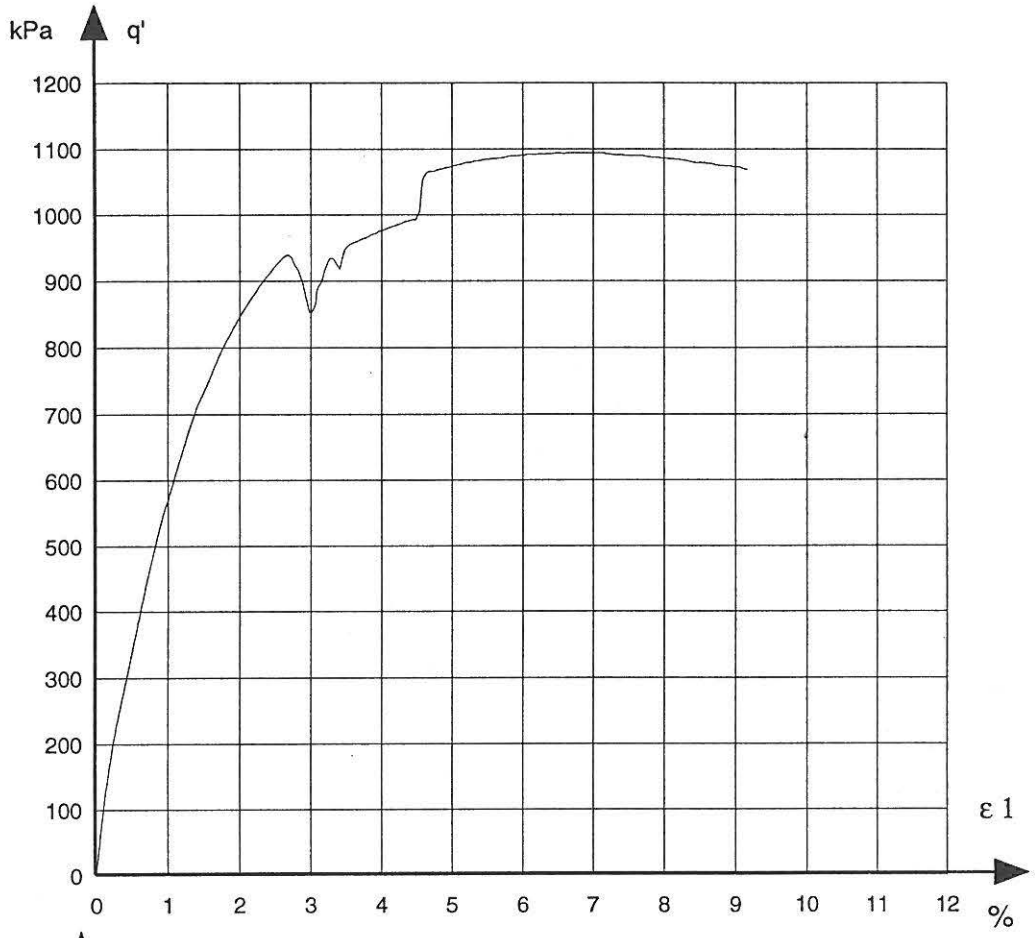


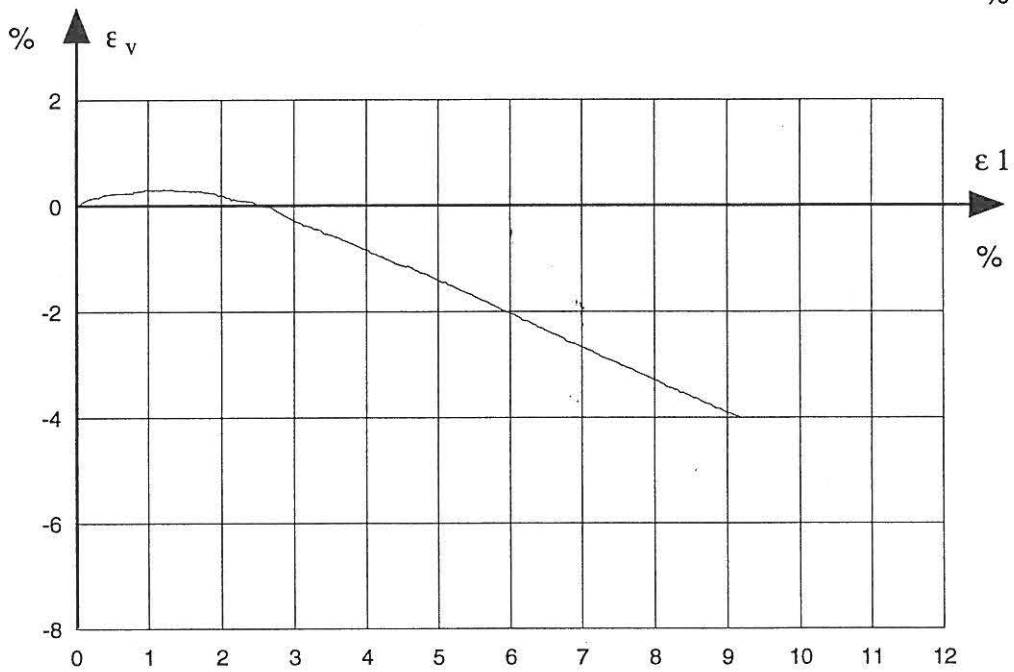


q'	p'	ε 1	ε ν
0.00	318.49	0.00	0.00
22.75	327.09	0.02	0.01
84.80	347.14	0.08	0.05
146.99	368.25	0.15	0.11
203.52	386.84	0.24	0.15
309.23	422.08	0.44	0.22
416.39	457.67	0.65	0.24
521.08	492.82	0.87	0.28
613.32	523.44	1.12	0.31
683.83	546.81	1.32	0.31
771.36	576.12	1.65	0.28
833.57	596.73	1.93	0.22
885.64	614.21	2.23	0.11
928.10	628.11	2.54	0.02
853.86	553.09	3.01	-0.28
933.71	604.97	3.27	-0.43
958.02	614.23	3.61	-0.59
988.25	623.15	4.30	-1.01
1071.93	676.57	4.92	-1.35
1085.85	680.82	5.63	-1.79
1092.83	683.28	6.35	-2.25
1094.33	683.91	6.74	-2.50
1087.90	681.63	7.80	-3.17
1079.32	679.03	8.54	-3.63

Job:	Encl. No
Lund No 0	35
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 = 0.076



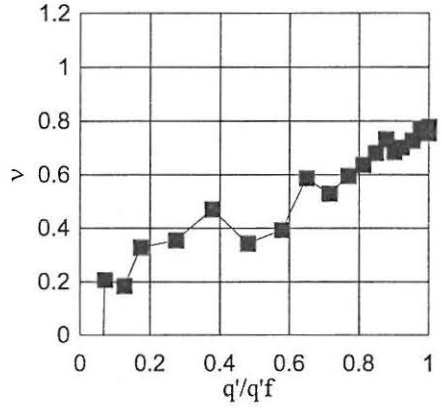


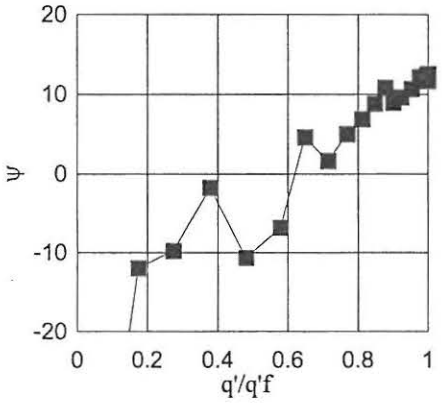
Job: Lund No 0	Encl. No 36
Exc: LBI	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.612	0.648
		Saturation	1.11	
kal_tri3	25.10.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-320	kPa
CD - Triaxial test.		ε 1	0.132	%
free ends		ε ν	0.068	%
	2.Drained compression.			
	Deformation rate:		7.5	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 037.52	kPa	600.56	kPa
Mean normal stress	p'	664.46	kPa	519.06	kPa
Confining pressures	σ3	318.62	kPa	318.87	kPa
Vertical strain	ε 1	7.16	%	1.11	%
Volumetric strain	ε ν	-2.23	%	0.35	%

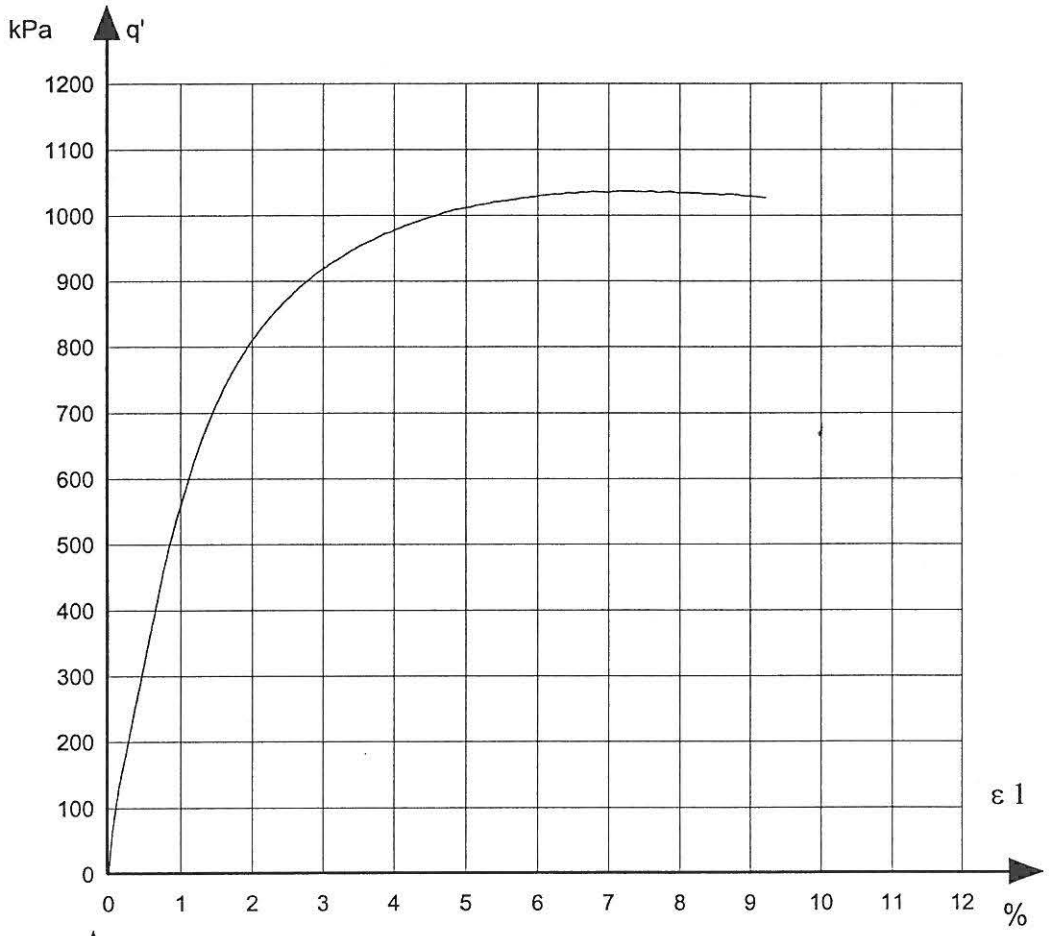


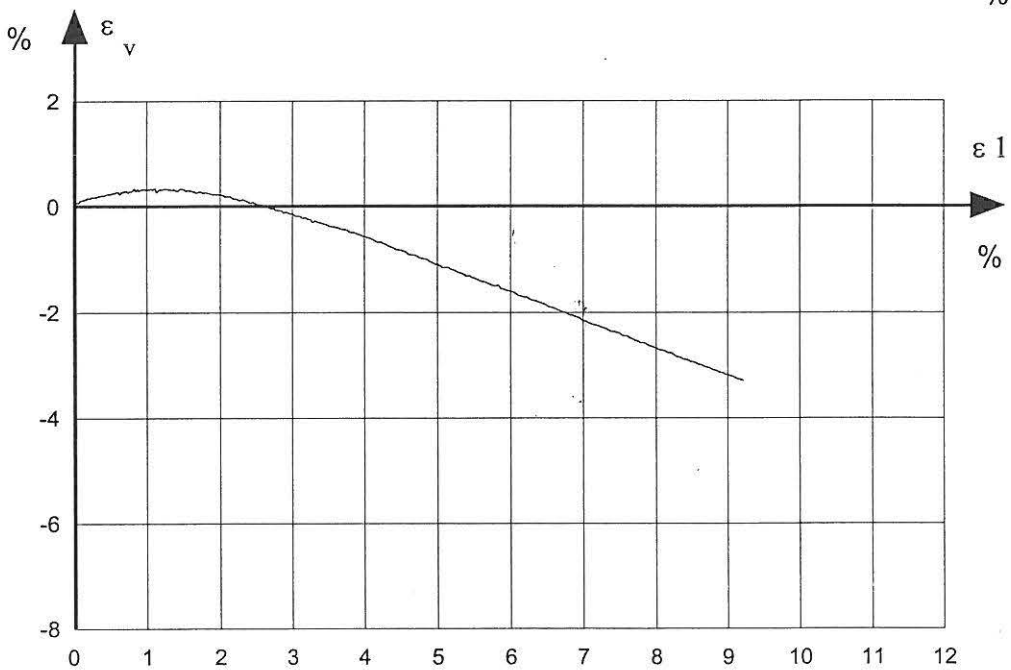


q'	p'	ε 1	ε ν
0.00	316.96	0.00	0.00
11.00	322.54	0.01	0.05
72.80	342.88	0.06	0.08
129.73	361.86	0.14	0.13
179.79	378.68	0.23	0.16
284.81	413.55	0.42	0.22
393.07	449.64	0.63	0.23
498.58	484.81	0.84	0.30
600.56	519.06	1.11	0.35
674.07	543.18	1.34	0.31
742.54	566.00	1.62	0.30
797.97	584.48	1.91	0.24
842.57	599.35	2.22	0.16
879.21	611.30	2.55	0.04
910.13	621.99	2.87	-0.11
934.34	629.68	3.21	-0.24
956.99	637.74	3.55	-0.37
989.18	648.47	4.25	-0.69
1012.30	656.05	5.00	-1.09
1024.79	659.96	5.68	-1.44
1035.06	663.76	6.40	-1.80
1037.52	664.46	7.16	-2.23
1036.62	664.41	7.86	-2.58
1031.95	662.47	8.59	-2.98

Job:	Encl. No
Lund No 0	37
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.098



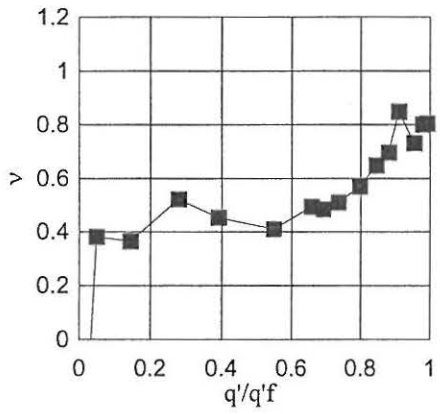


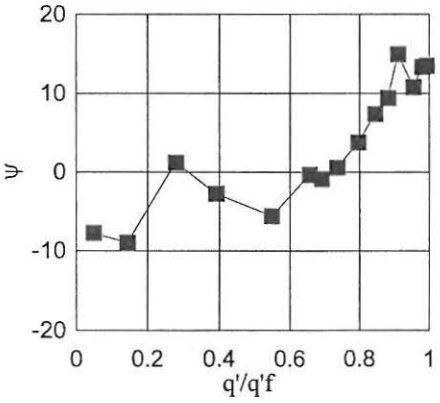
Job: Lund No 0	Encl. No 38
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.615	0.658
		Saturation	1.09	
kal_tri3		Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-46 kPa
CD - Triaxial test.		ε 1	-0.056 %
free ends		ε ν	0.132 %
	2.Drained compression.		
	Deformation rate:		7.8 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	190.63	kPa	131.89	kPa
Mean normal stress	p'	110.63	kPa	90.92	kPa
Confining pressures	σ3	47.08	kPa	46.96	kPa
Vertical strain	ε 1	6.40	%	1.03	%
Volumetric strain	ε ν	-2.62	%	0.09	%

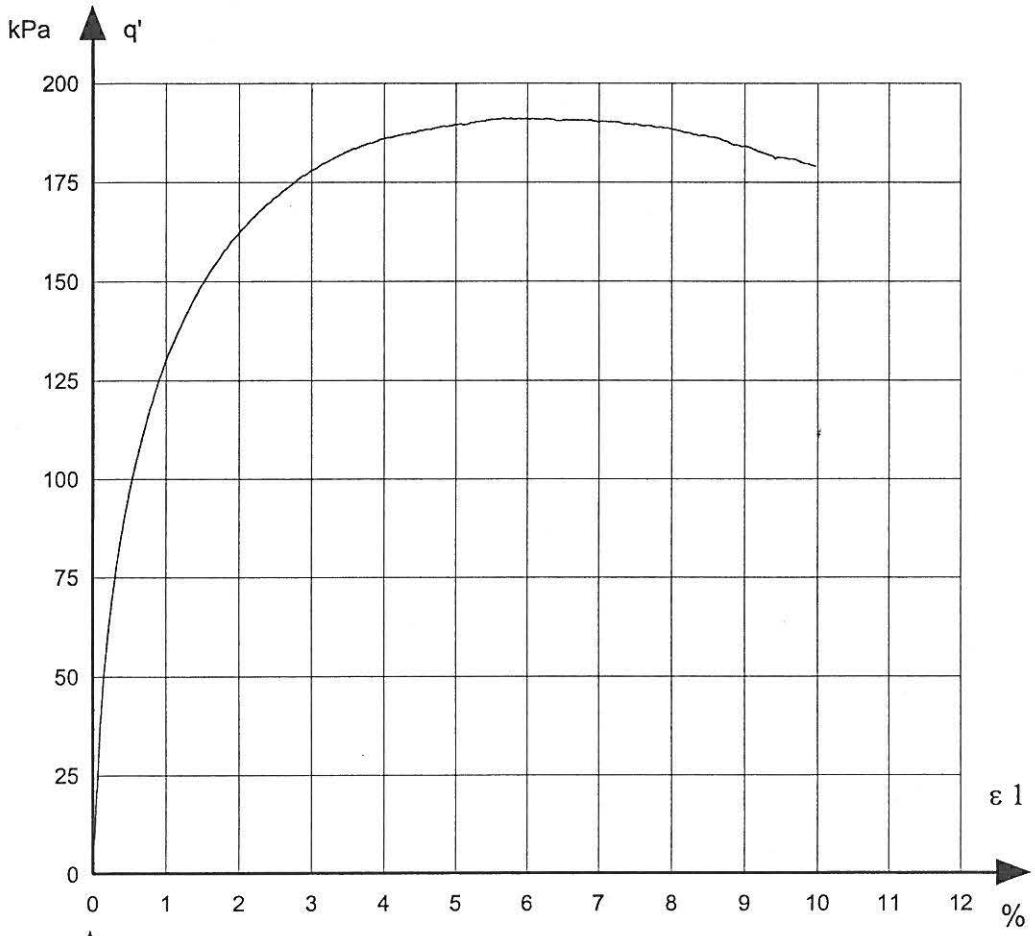




q'	p'	ε 1	ε ν
0.00	46.96	0.00	0.00
3.78	48.22	0.00	0.01
9.22	50.03	0.02	0.01
27.34	55.94	0.07	0.02
53.27	64.71	0.16	0.02
74.61	71.83	0.29	0.03
104.50	81.79	0.58	0.08
125.31	88.73	0.90	0.09
131.89	90.92	1.03	0.09
140.42	93.76	1.23	0.09
151.92	97.60	1.58	0.04
160.99	100.75	1.93	-0.06
167.99	102.95	2.29	-0.20
173.53	104.80	2.65	-0.46
181.93	107.60	3.39	-0.79
186.61	109.16	4.13	-1.24
189.14	110.13	4.87	-1.69
191.04	110.76	5.62	-2.06
190.99	110.75	6.36	-2.54
190.48	110.58	7.10	-2.96
189.01	110.09	7.85	-3.37
186.39	109.22	8.59	-3.83
181.93	107.73	9.33	-4.15
179.16	106.81	9.97	-4.33

Job:	Encl. No
Lund No 0	39
Exc:	Check:
LBI	FRJ

Remark:
Preparation [%] Δ ε1 0.066
Error during saturation.

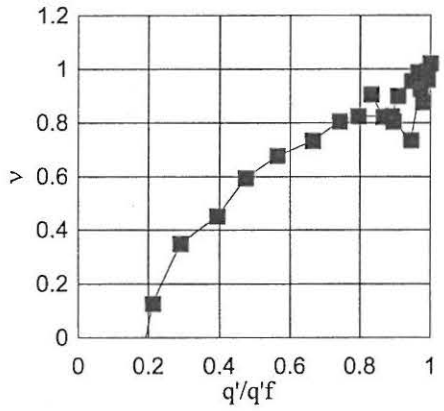


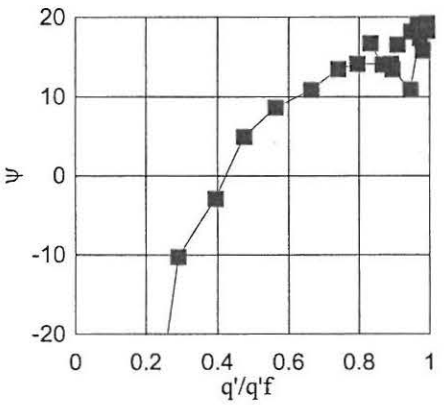
Job: Lund No 0	Encl. No 40
Exc:	Check:
LBI	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.8	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.576	0.628
		Saturation	1.09	
kal200_891	08.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	10-5	kPa
CD - Triaxial test.		ε 1	0.003	%
free ends		ε ν	0.162	%
	2.Drained compression.			
	Deformation rate:		8.9	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	37.44	kPa	14.75	kPa
Mean normal stress	p'	17.23	kPa	9.67	kPa
Confining pressures	σ3	4.75	kPa	4.75	kPa
Vertical strain	ε 1	5.12	%	0.41	%
Volumetric strain	ε ν	-3.25	%	0.22	%

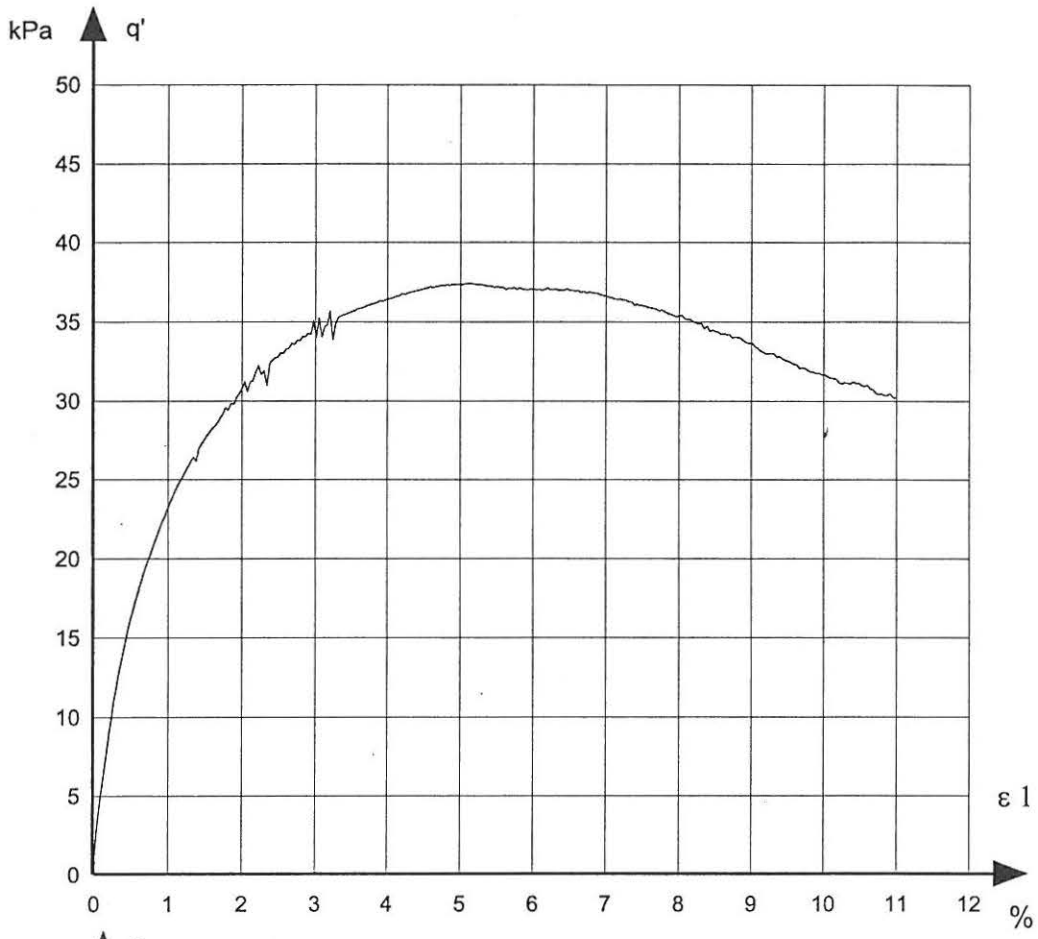


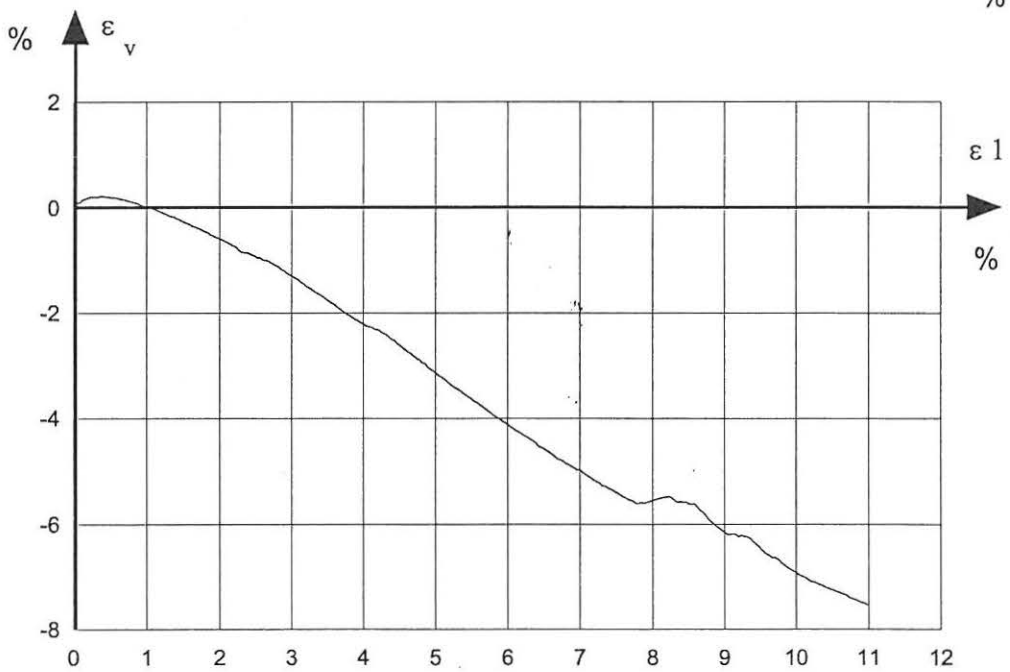


q'	p'	ε 1	ε ν
0.00	4.75	0.00	0.00
2.68	5.52	0.03	0.08
7.95	7.40	0.17	0.18
10.88	8.38	0.25	0.21
14.75	9.67	0.41	0.22
17.75	10.67	0.57	0.19
21.11	11.79	0.81	0.11
24.90	13.05	1.16	-0.05
27.79	13.89	1.52	-0.27
29.79	40.58	1.88	-0.51
33.33	15.86	2.63	-0.99
33.97	28.46	3.01	-1.30
35.46	16.57	3.39	-1.64
36.14	16.80	3.78	-2.02
36.66	16.97	4.16	-2.30
37.14	17.13	4.54	-2.65
37.44	17.23	5.12	-3.25
37.11	17.25	5.69	-3.82
37.10	17.12	6.46	-4.54
36.39	16.88	7.23	-5.19
35.39	16.55	7.99	-5.55
33.48	15.91	9.04	-6.18
32.46	15.57	9.55	-6.51
31.15	15.14	10.32	-7.14

Job:	Encl. No
Lund No 0	41
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 -0.315



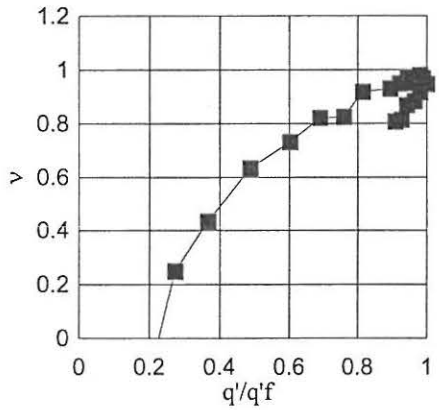


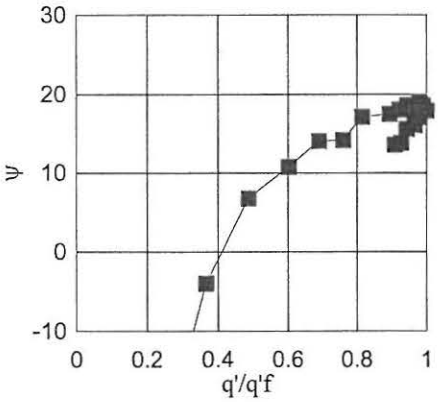
Job: Lund No 0	Encl. No 42
Exc:	Check:
LBI, AMS	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.7	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.577	0.647
		Saturation	1.04	
kal200_891	09.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-5 kPa
CD - Triaxial test.		ε 1	-0.136 %
free ends		ε ν	-0.691 %
	2.Drained compression.		
	Deformation rate:		9.0 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	38.34	kPa	14.06	kPa
Mean normal stress	p'	17.66	kPa	9.57	kPa
Confining pressures	σ3	4.88	kPa	4.88	kPa
Vertical strain	ε 1	5.82	%	0.19	%
Volumetric strain	ε ν	-4.42	%	0.16	%

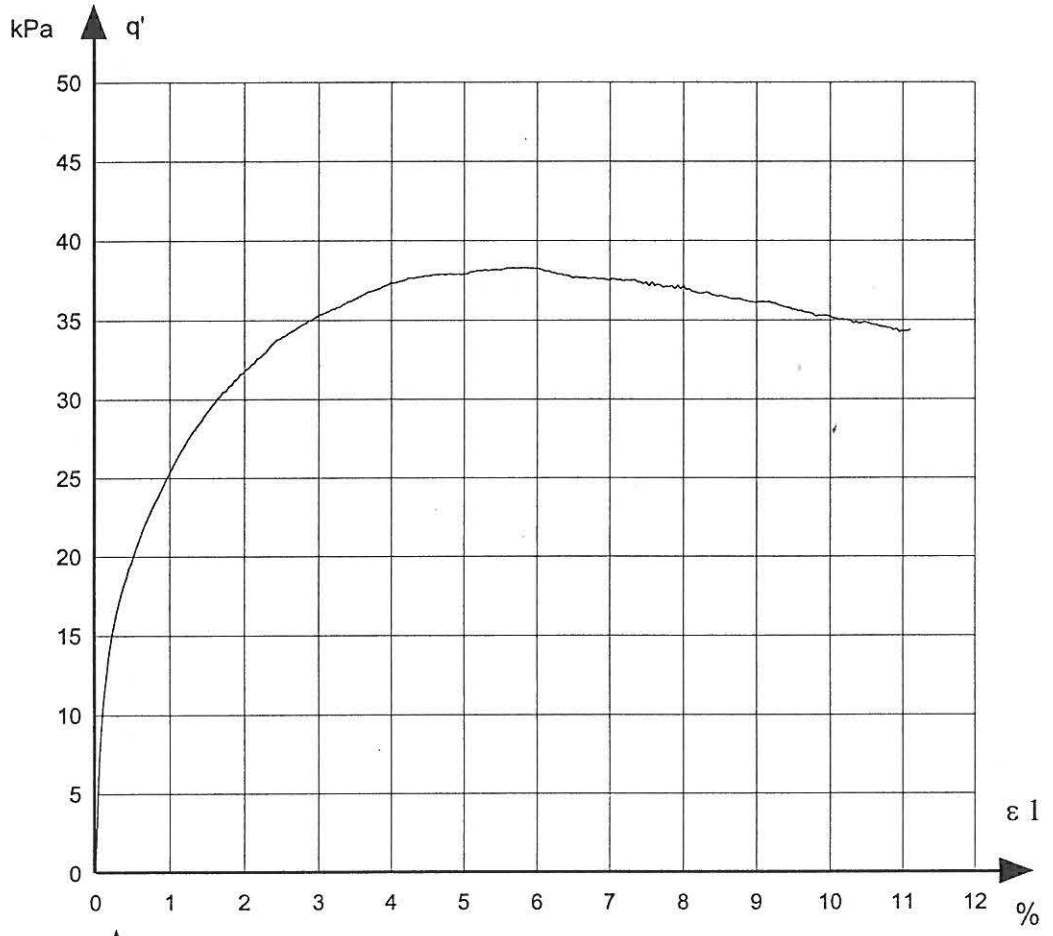


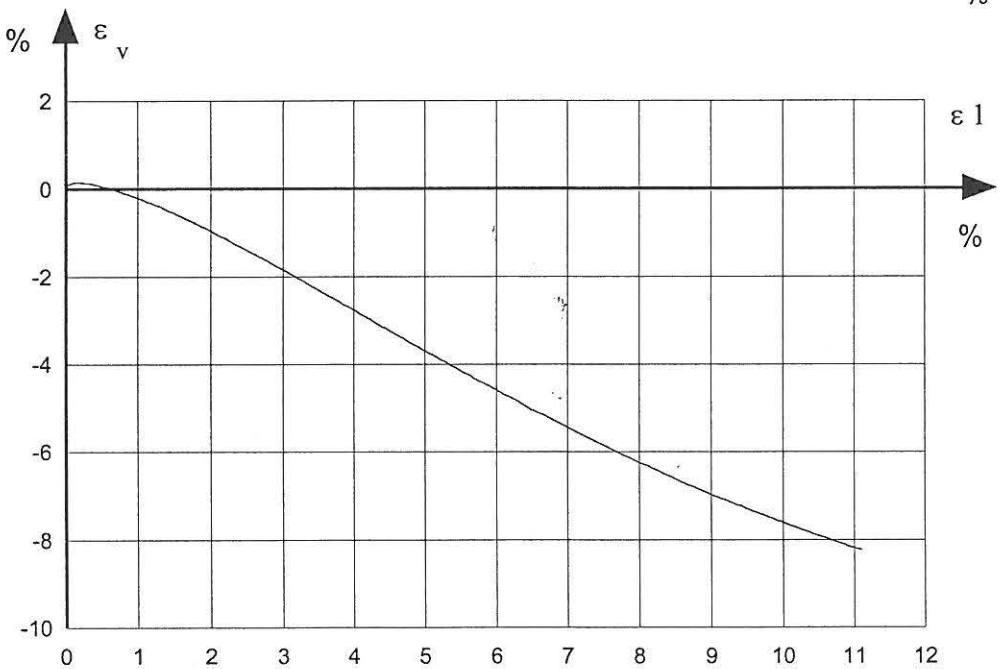


q'	p'	ε 1	ε ν
-0.05	4.74	0.00	0.00
1.45	5.36	0.01	0.06
7.01	7.22	0.05	0.12
10.52	8.38	0.10	0.15
14.06	9.57	0.19	0.16
18.66	11.10	0.41	0.10
23.08	12.57	0.76	-0.06
26.45	13.70	1.12	-0.29
29.14	14.59	1.49	-0.53
31.23	15.16	1.86	-0.84
34.29	16.31	2.63	-1.50
35.37	16.67	3.02	-1.85
36.19	16.94	3.41	-2.21
36.96	17.20	3.79	-2.56
37.56	17.40	4.19	-2.94
37.88	17.51	4.58	-3.30
37.91	17.64	4.97	-3.66
38.34	17.66	5.82	-4.42
37.74	17.58	6.52	-5.04
37.56	17.40	7.29	-5.69
36.99	17.21	8.08	-6.29
36.13	16.92	9.13	-7.06
35.52	16.60	9.64	-7.38
34.85	16.50	10.43	-7.86

Job:	Encl. No
Lund No 0	43
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.082



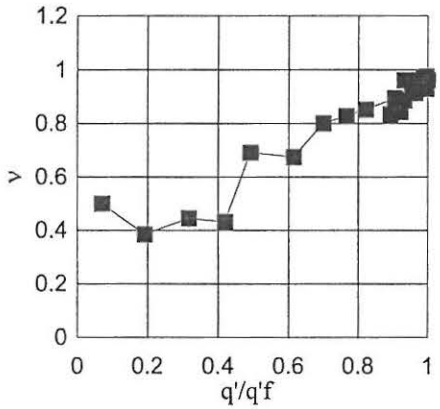


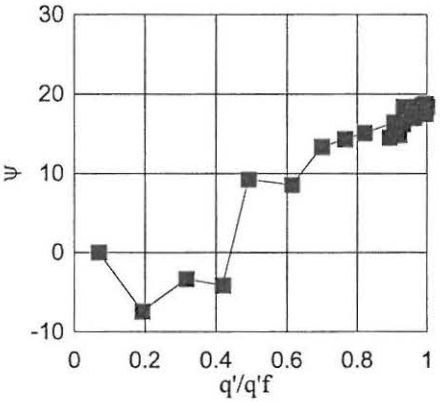
Job: Lund No 0	Encl. No 44
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.573	0.628
		Saturation	1.05	
kal200_891	07.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-10	kPa
CD - Triaxial test.		ε 1	-0.110	%
free ends		ε ν	-0.279	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	61.27	kPa	25.68	kPa
Mean normal stress	p'	30.31	kPa	18.32	kPa
Confining pressures	σ3	9.88	kPa	9.76	kPa
Vertical strain	ε 1	4.77	%	0.23	%
Volumetric strain	ε ν	-3.49	%	0.03	%

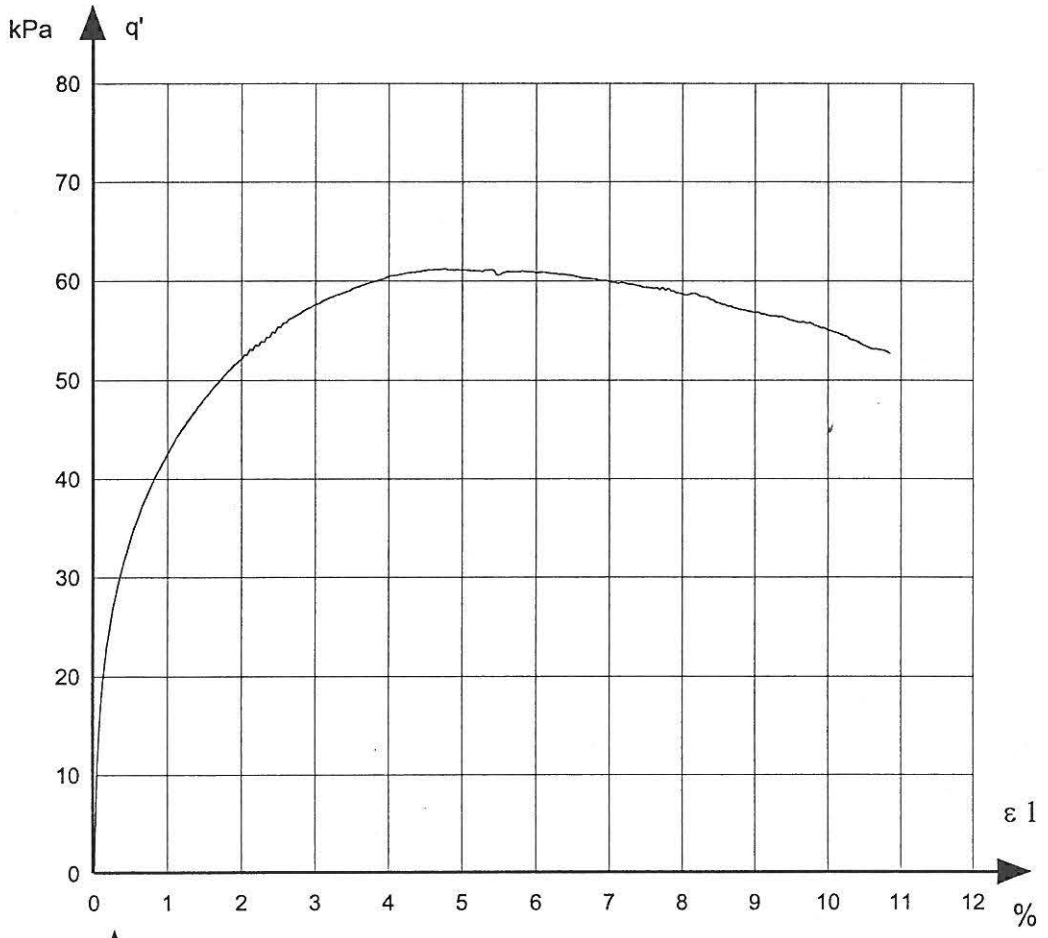


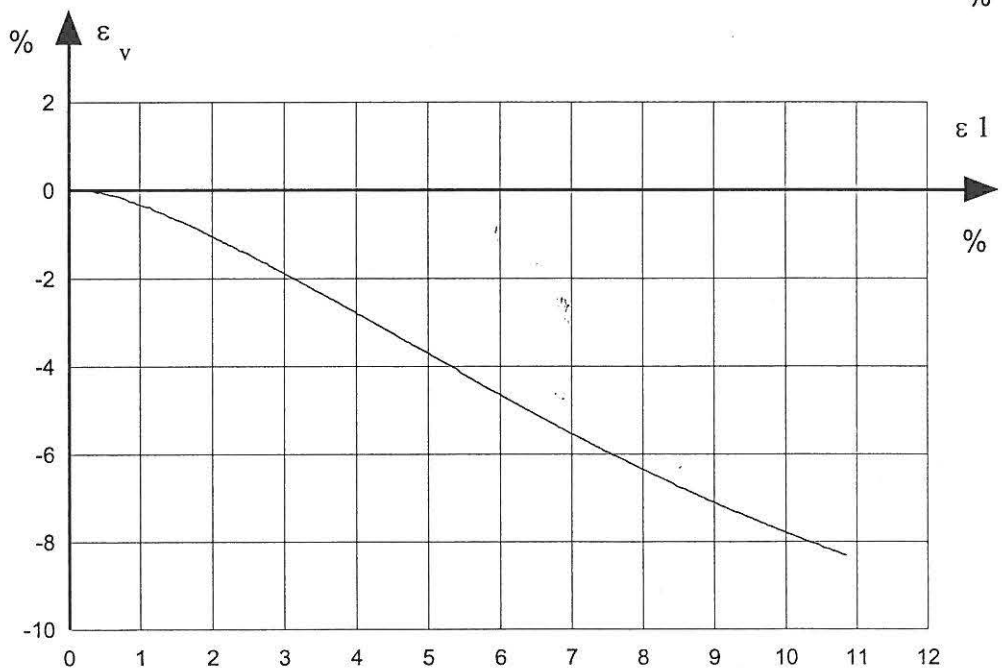


q'	p'	ε 1	ε ν
0.00	9.88	0.00	0.00
4.27	11.18	0.01	0.00
11.75	13.68	0.05	0.01
19.43	16.23	0.11	0.02
25.68	18.32	0.23	0.03
30.04	19.90	0.34	-0.02
37.64	22.30	0.67	-0.13
42.88	24.18	1.02	-0.34
46.91	25.52	1.37	-0.57
50.30	26.52	1.74	-0.83
55.42	28.36	2.49	-1.42
57.13	28.80	2.87	-1.76
58.48	29.25	3.24	-2.10
59.56	29.74	3.63	-2.45
60.53	29.93	4.01	-2.81
60.98	30.08	4.39	-3.14
61.27	30.31	4.77	-3.49
60.99	30.21	5.62	-4.29
60.68	30.11	6.30	-4.92
59.89	29.97	7.07	-5.58
59.00	29.42	7.84	-6.22
57.03	28.77	8.89	-7.03
56.37	28.55	9.39	-7.37
54.65	27.97	10.18	-7.90

Job:	Encl. No
Lund No 0	45
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.073



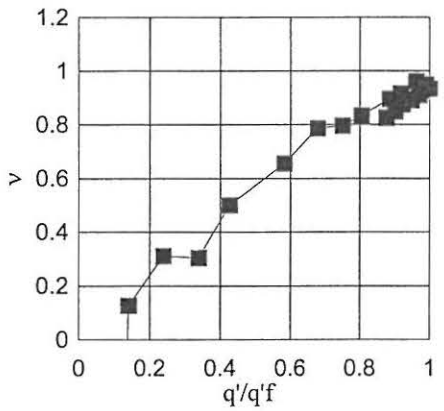


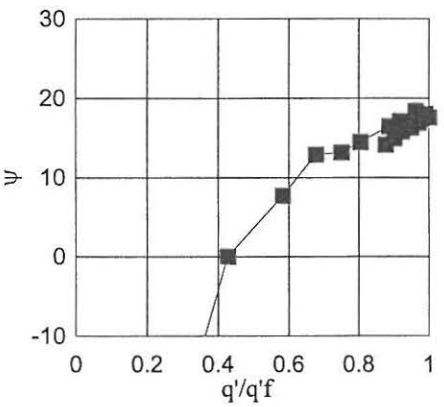
Job: Lund No 0	Encl. No 46
Exc:	Check:
LBI, AMS	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.7	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.575	0.636
		Saturation	1.05	
kal200_891	12.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-10	kPa
CD - Triaxial test.		ε 1	-0.112	%
free ends		ε ν	-0.291	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	60.07	kPa	25.65	kPa
Mean normal stress	p'	29.66	kPa	18.31	kPa
Confining pressures	σ3	9.63	kPa	9.76	kPa
Vertical strain	ε 1	5.59	%	0.30	%
Volumetric strain	ε ν	-3.85	%	0.19	%

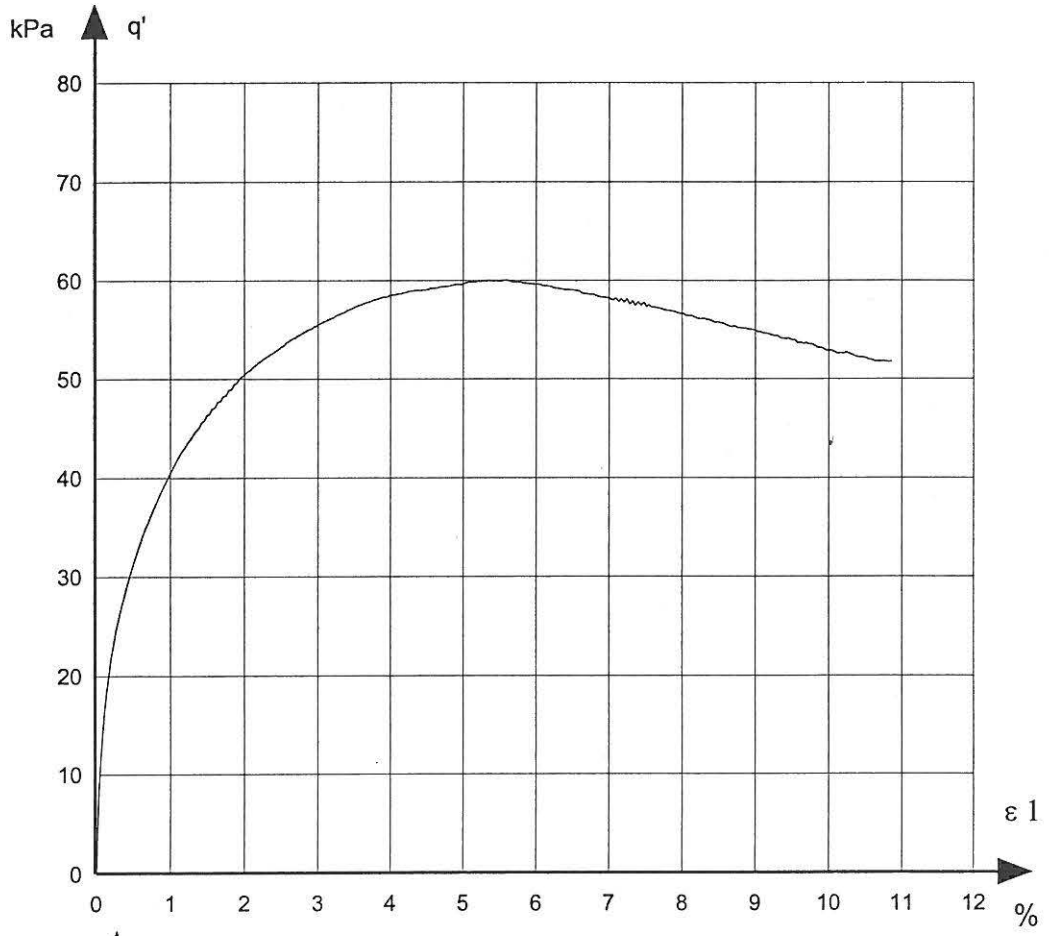


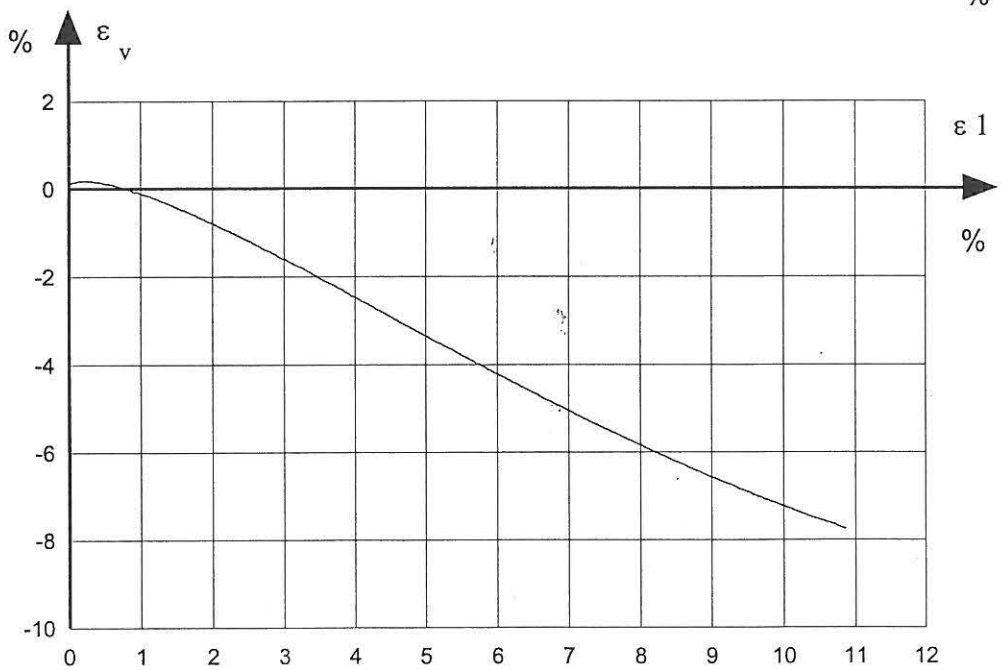


q'	p'	ε 1	ε ν
0.00	9.76	0.00	0.00
4.33	11.32	0.01	0.12
8.40	12.56	0.03	0.13
14.38	14.68	0.08	0.15
20.35	16.67	0.17	0.19
25.65	18.31	0.30	0.19
35.01	21.43	0.66	0.07
40.78	23.35	1.01	-0.13
45.09	24.91	1.37	-0.34
48.35	26.00	1.74	-0.59
53.27	27.39	2.49	-1.18
55.06	28.11	2.87	-1.49
56.50	28.59	3.25	-1.79
57.74	29.25	3.63	-2.14
58.60	29.41	4.02	-2.47
59.01	29.43	4.40	-2.82
59.46	29.58	4.78	-3.16
60.07	29.66	5.59	-3.85
59.24	29.38	6.32	-4.49
58.23	28.92	7.09	-5.12
56.93	28.74	7.86	-5.72
55.46	28.24	8.63	-6.30
54.15	27.81	9.42	-6.85
52.63	27.18	10.20	-7.35

Job:	Encl. No
Lund No 0	47
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.078



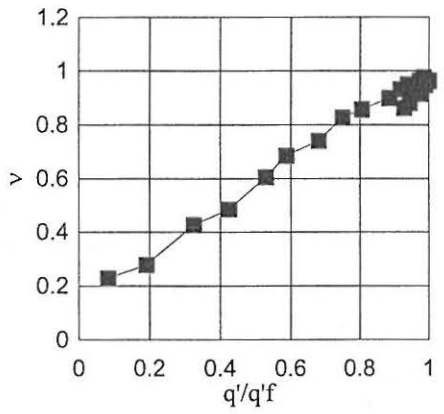


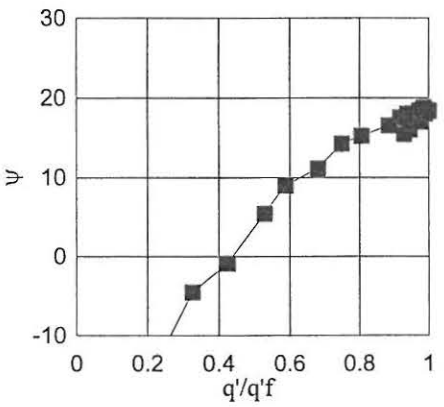
Job: Lund No 0	Encl. No 48
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.8	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.568	0.633
		Saturation	1.06	
kal200_891	01.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-20	kPa
CD - Triaxial test.		ε 1	-0.122	%
free ends		ε ν	-0.004	%
	2.Drained compression.			
	Deformation rate:		8.5	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	104.47	kPa	44.39	kPa
Mean normal stress	p'	55.71	kPa	35.69	kPa
Confining pressures	σ3	20.89	kPa	20.89	kPa
Vertical strain	ε 1	5.57	%	0.28	%
Volumetric strain	ε ν	-4.17	%	0.05	%

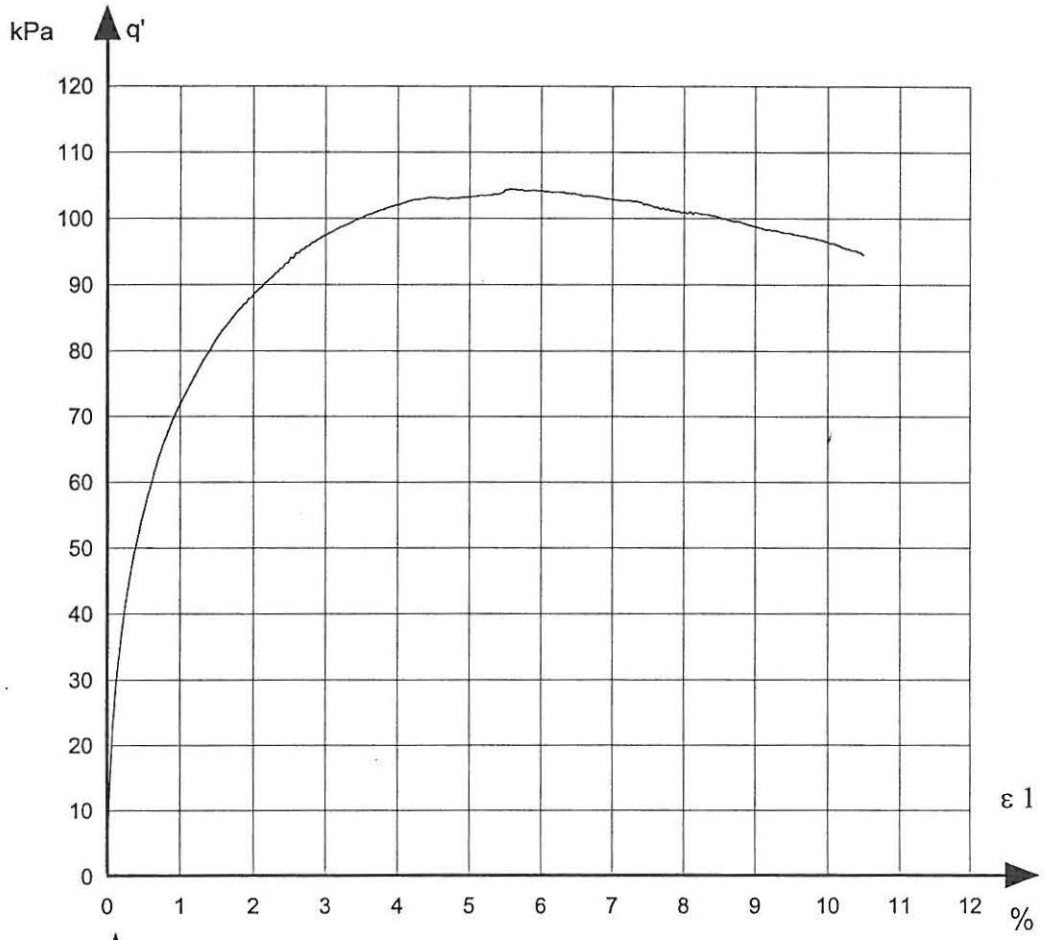


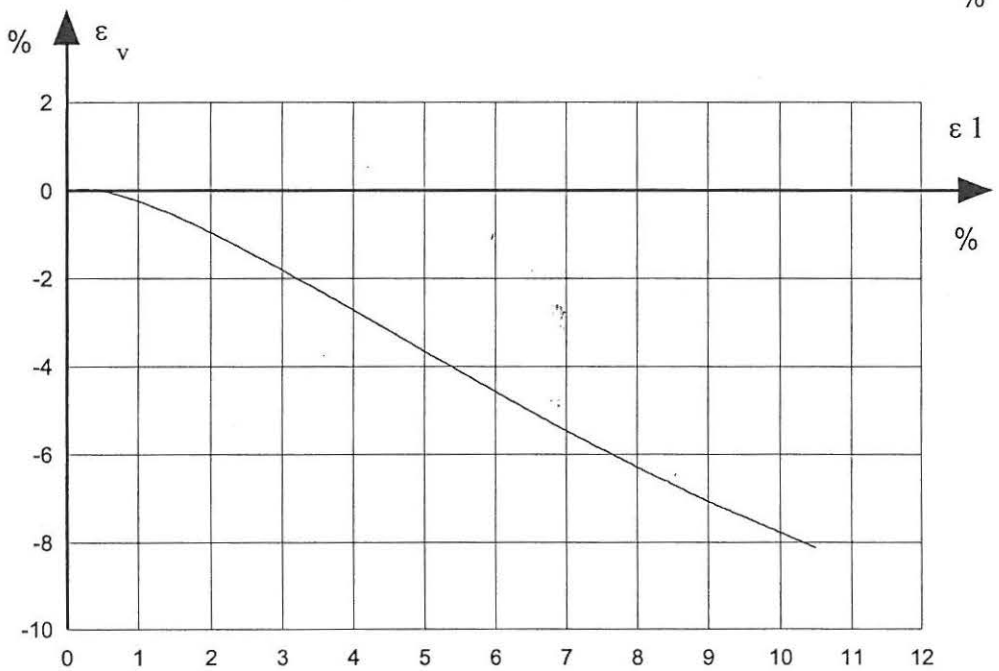


q'	p'	ε 1	ε ν
0.05	20.91	0.00	0.00
8.62	23.76	0.01	0.01
19.95	27.54	0.06	0.03
34.02	32.23	0.16	0.04
44.39	35.69	0.28	0.05
55.16	39.28	0.48	0.00
61.35	41.22	0.64	-0.05
71.12	44.72	0.96	-0.21
78.30	46.99	1.30	-0.43
84.18	48.95	1.65	-0.68
92.47	51.72	2.36	-1.25
95.85	52.84	2.73	-1.56
98.06	53.58	3.09	-1.89
99.99	54.22	3.46	-2.21
101.55	54.74	3.83	-2.55
102.83	55.17	4.20	-2.90
103.16	55.40	4.57	-3.25
104.47	55.71	5.57	-4.17
104.08	55.71	6.05	-4.61
103.32	55.33	6.80	-5.28
101.97	54.88	7.55	-5.90
100.63	54.44	8.30	-6.53
98.62	53.76	9.06	-7.11
96.99	53.10	9.83	-7.66

Job:	Encl. No
Lund No 0	49
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.086



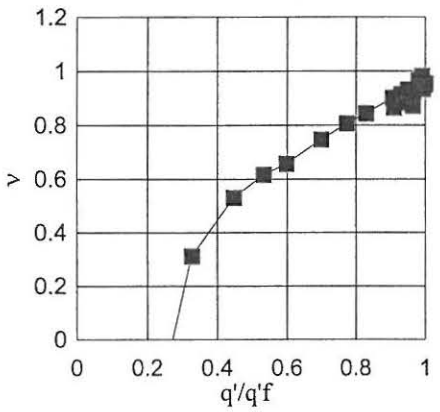


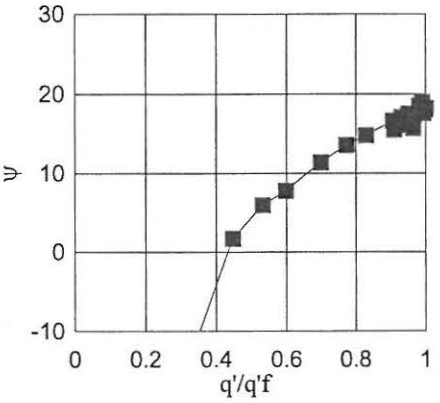
Job: Lund No 0	Encl. No 50
Exc:	Check:
LBI, AMS	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.577	0.642
		Saturation	1.06	
kal200_891	13.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-20	kPa
CD - Triaxial test.		ε 1	-0.082	%
free ends		ε ν	-0.238	%
	2.Drained compression.			
	Deformation rate:		8.6	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	104.92	kPa	34.34	kPa
Mean normal stress	p'	55.49	kPa	31.96	kPa
Confining pressures	σ3	20.52	kPa	20.52	kPa
Vertical strain	ε 1	5.62	%	0.12	%
Volumetric strain	ε ν	-4.09	%	0.15	%

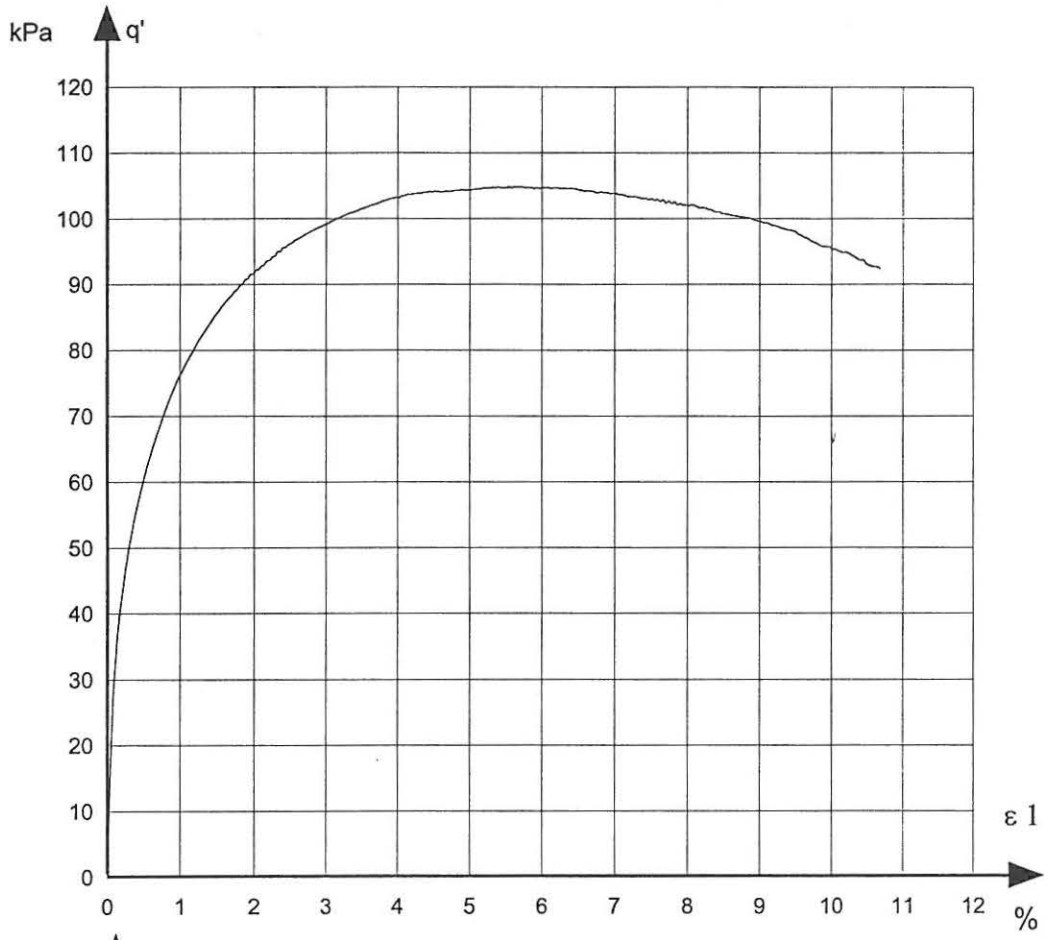


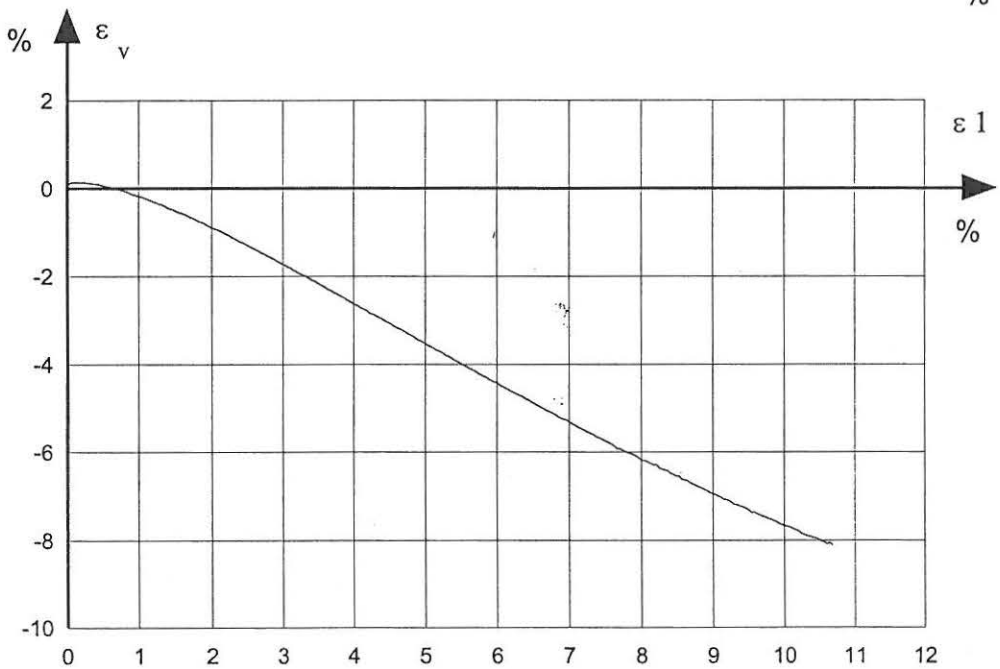


q'	p'	ε 1	ε ν
0.05	20.41	0.00	0.00
0.40	20.65	0.00	0.05
12.83	24.67	0.03	0.12
34.34	31.96	0.12	0.15
46.90	36.15	0.24	0.14
55.78	39.11	0.39	0.11
62.77	41.31	0.55	0.06
73.36	44.97	0.88	-0.10
81.11	47.55	1.22	-0.31
87.02	49.40	1.58	-0.56
95.04	52.07	2.32	-1.15
97.57	53.04	2.69	-1.46
99.66	53.86	3.07	-1.78
101.29	54.15	3.45	-2.10
102.81	54.91	3.82	-2.45
103.82	55.00	4.21	-2.82
104.14	55.10	4.59	-3.15
104.92	55.49	5.62	-4.09
104.69	55.54	6.12	-4.53
104.04	55.20	6.89	-5.23
102.94	54.96	7.66	-5.92
101.09	54.34	8.44	-6.49
98.99	53.39	9.21	-7.09
95.42	52.20	10.01	-7.67

Job:	Encl. No
Lund No 0	51
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.071



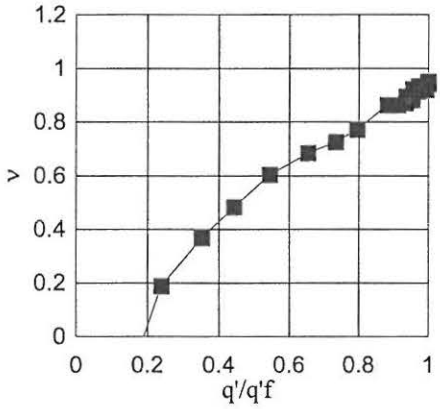


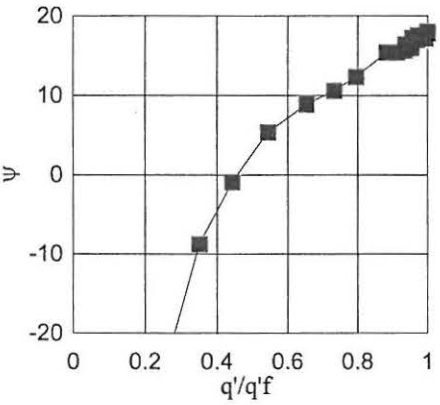
Job: Lund No 0	Encl. No 52
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.4	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.576	0.631
		Saturation	1.03	
kal200_891	06.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-40 kPa
CD - Triaxial test.		ε 1	-0.074 %
free ends		ε ν	-0.159 %
	2.Drained compression.		
	Deformation rate:		8.2 % ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	184.55	kPa	81.73	kPa
Mean normal stress	p'	101.67	kPa	67.40	kPa
Confining pressures	σ3	40.16	kPa	40.16	kPa
Vertical strain	ε 1	5.27	%	0.31	%
Volumetric strain	ε ν	-3.48	%	0.13	%

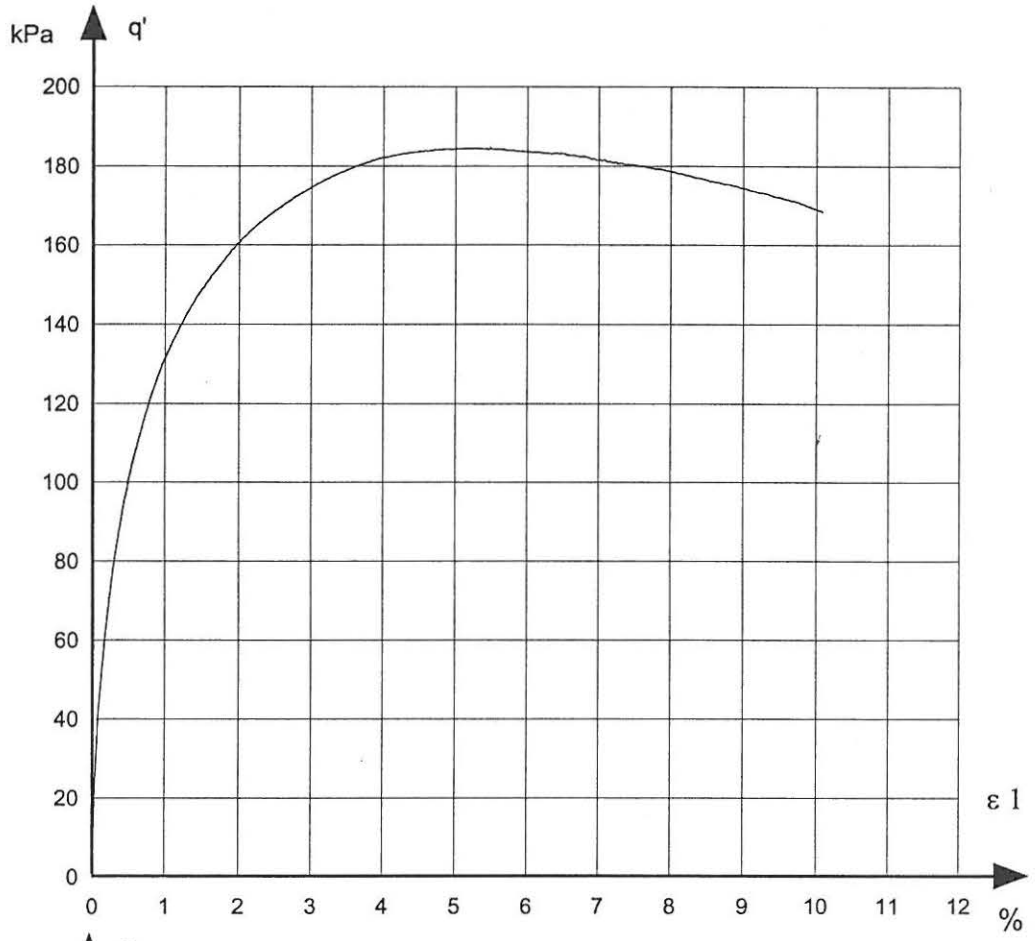


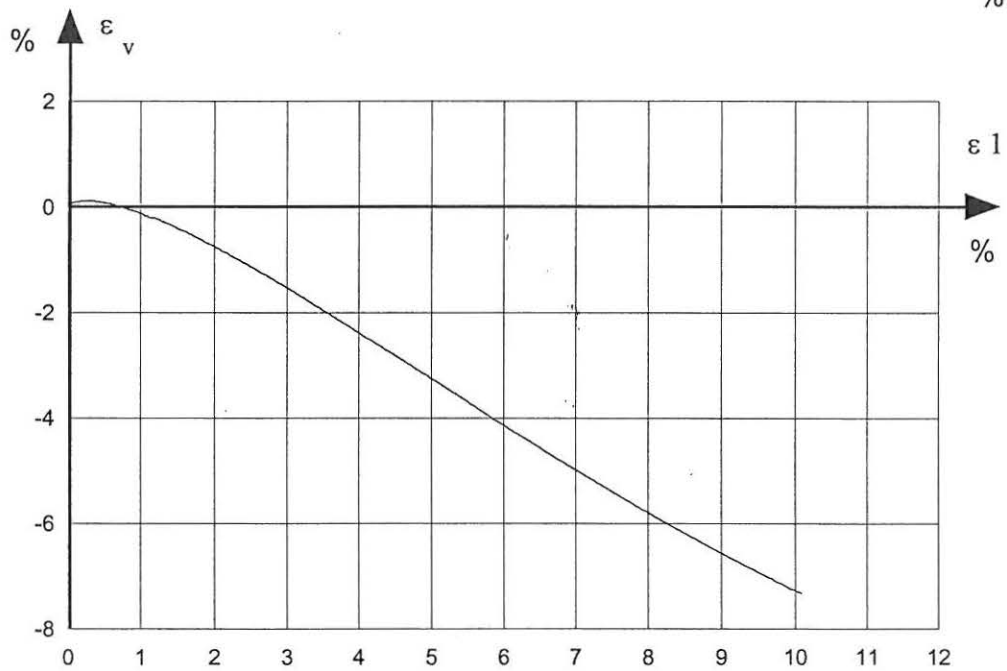


q'	p'	ε 1	ε ν
0.00	40.16	0.00	0.00
8.20	42.89	0.01	0.04
15.40	45.29	0.02	0.05
44.21	54.90	0.09	0.10
64.94	61.80	0.19	0.12
81.73	67.40	0.31	0.13
100.54	73.67	0.49	0.09
120.65	80.37	0.78	-0.02
135.45	85.31	1.09	-0.15
146.82	89.22	1.42	-0.33
162.72	94.27	2.10	-0.83
168.19	96.34	2.45	-1.08
172.61	97.94	2.81	-1.36
176.32	98.80	3.16	-1.66
179.27	99.91	3.52	-1.97
181.62	100.70	3.88	-2.27
183.06	101.30	4.24	-2.58
184.55	101.67	5.27	-3.48
184.13	101.53	5.71	-3.88
183.18	101.34	6.45	-4.50
180.86	100.57	7.19	-5.13
178.93	99.80	7.94	-5.75
175.83	98.77	8.69	-6.32
172.27	97.71	9.44	-6.88

Job:	Encl. No
Lund No 0	53
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.071



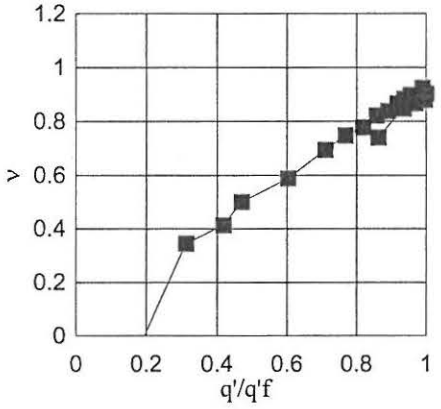


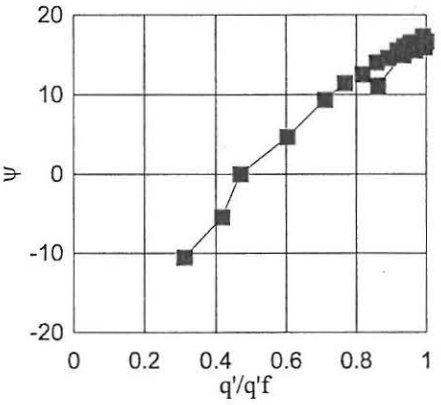
Job: Lund No 0	Encl. No 54
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.565	
		Saturation	1.04	
kal200_891	10.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-40	kPa
CD - Triaxial test.		ε 1	-0.062	%
free ends		ε ν	-0.136	%
	2.Drained compression.			
	Deformation rate:		7.8	% ph

		Values at failure	Values for Δε ν = 0	
Deviator stress	q'		82.84	kPa
Mean normal stress	p'		68.14	kPa
Confining pressures	σ3		40.53	kPa
Vertical strain	ε 1		0.32	%
Volumetric strain	ε ν		0.23	%

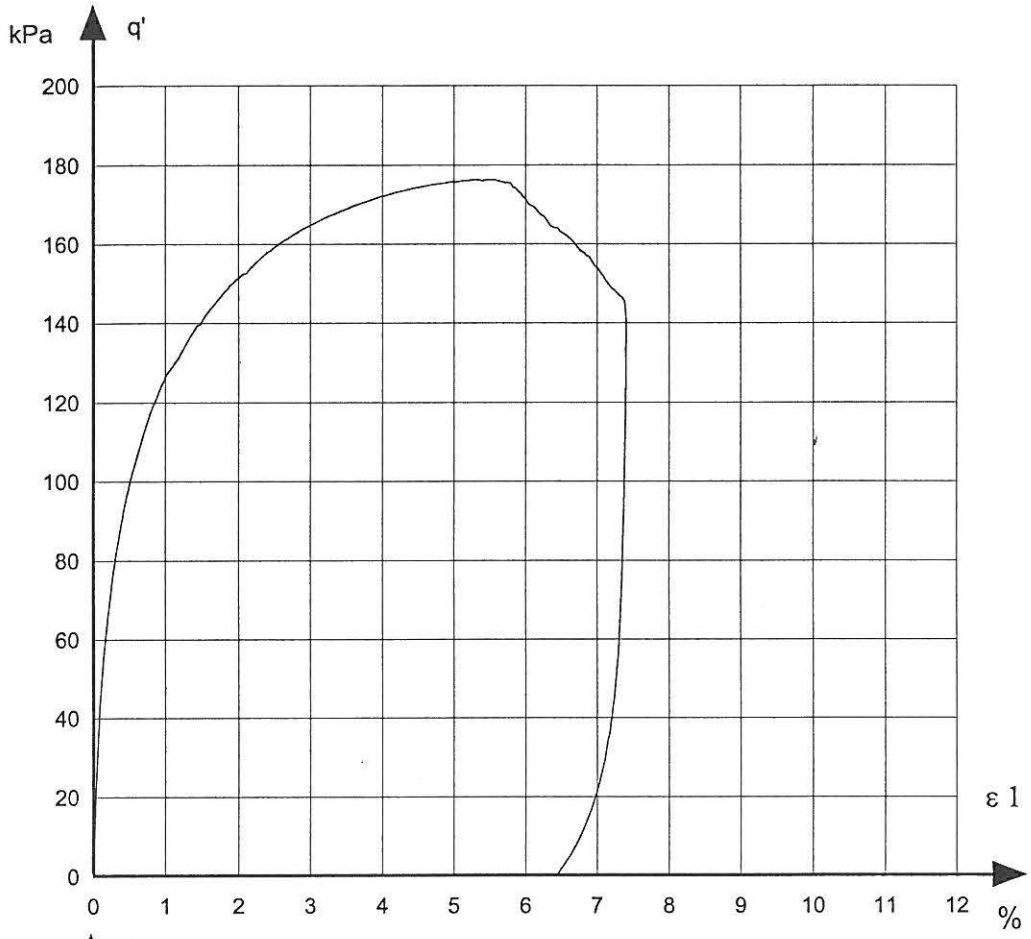


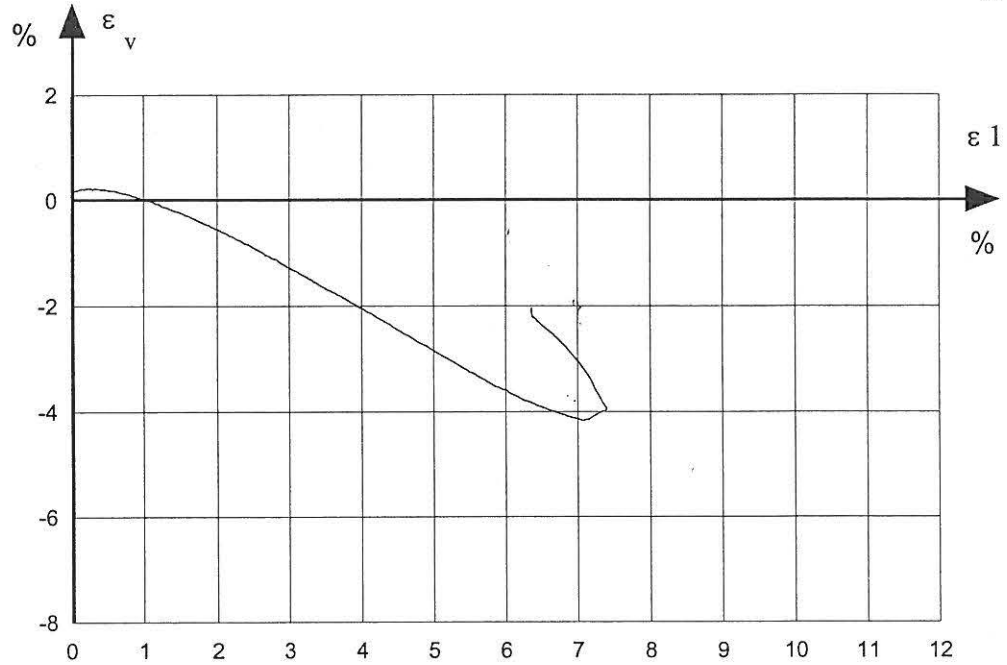


q'	p'	ε 1	ε ν
0.05	40.55	0.00	0.00
2.21	41.15	0.00	0.10
8.21	43.27	0.01	0.13
19.68	46.97	0.03	0.15
31.21	50.81	0.05	0.18
55.15	58.79	0.14	0.21
73.75	65.11	0.25	0.23
82.84	68.14	0.32	0.23
106.50	75.91	0.60	0.18
125.47	82.48	0.97	0.03
135.51	85.58	1.30	-0.13
144.30	88.51	1.64	-0.32
151.41	91.00	1.99	-0.54
157.19	92.93	2.34	-0.78
161.83	94.47	2.70	-1.04
165.46	95.56	3.06	-1.31
168.44	96.68	3.42	-1.60
170.93	97.51	3.78	-1.87
173.08	98.22	4.15	-2.14
174.52	98.58	4.51	-2.45
175.58	98.81	4.87	-2.73
176.43	99.22	5.53	-3.25
164.92	95.63	6.33	-3.81
152.11	90.86	7.07	-4.16

Job:	Encl. No
Lund No 0	55
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.108
The specimen slipped out.



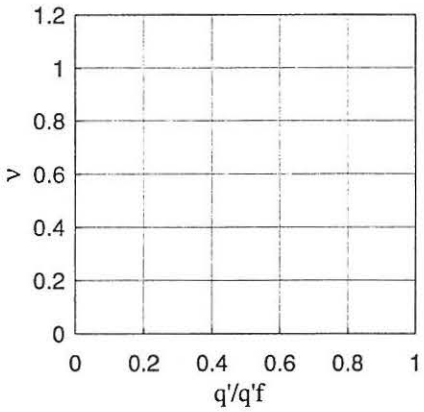


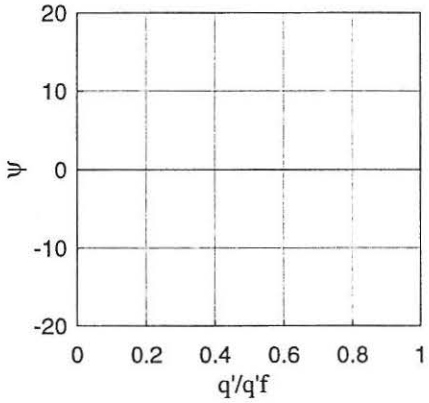
Job: Lund No 0	Encl. No 56
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.0	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.570	0.630
		Saturation	1.01	
kal200_891	08.06.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-80	kPa
CD - Triaxial test.		ε 1	-0.015	%
free ends		ε ν	-0.166	%
	2.Drained compression.			
	Deformation rate:		8.0	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	336.70	kPa	171.90	kPa
Mean normal stress	p'	190.90	kPa	136.00	kPa
Confining pressures	σ3	78.70	kPa	78.70	kPa
Vertical strain	ε 1	6.55	%	0.49	%
Volumetric strain	ε ν	-3.62	%	0.18	%





q'	p'	ε 1	ε ν

Job:	Encl. No
Lund No 0	69
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = 0.071

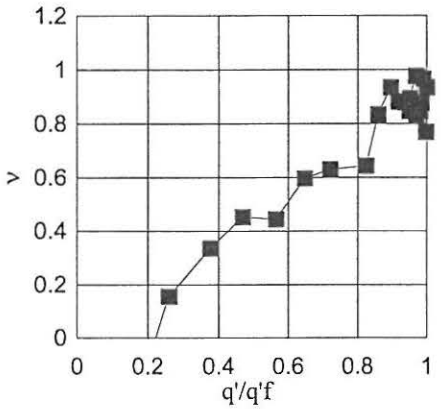
Data-file has been lost.

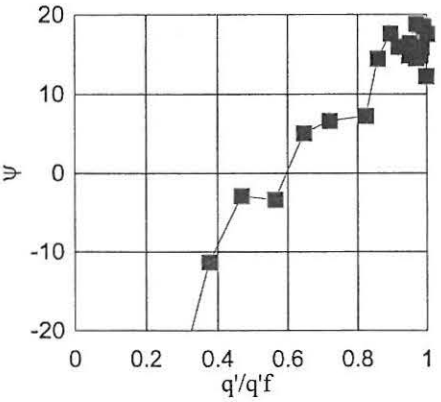
Job: Lund No 0	Encl. No 70
Exc:	Check:
LBI, AMS	FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21.4	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.565	0.613
		Saturation	1.00	
kal200_891	15.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-80	kPa
CD - Triaxial test.		ε 1	-0.022	%
free ends		ε ν	-0.034	%
	2.Drained compression.			
	Deformation rate:		8.2	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	334.98	kPa	189.15	kPa
Mean normal stress	p'	190.72	kPa	141.74	kPa
Confining pressures	σ3	79.06	kPa	78.69	kPa
Vertical strain	ε 1	6.17	%	0.70	%
Volumetric strain	ε ν	-3.04	%	0.34	%

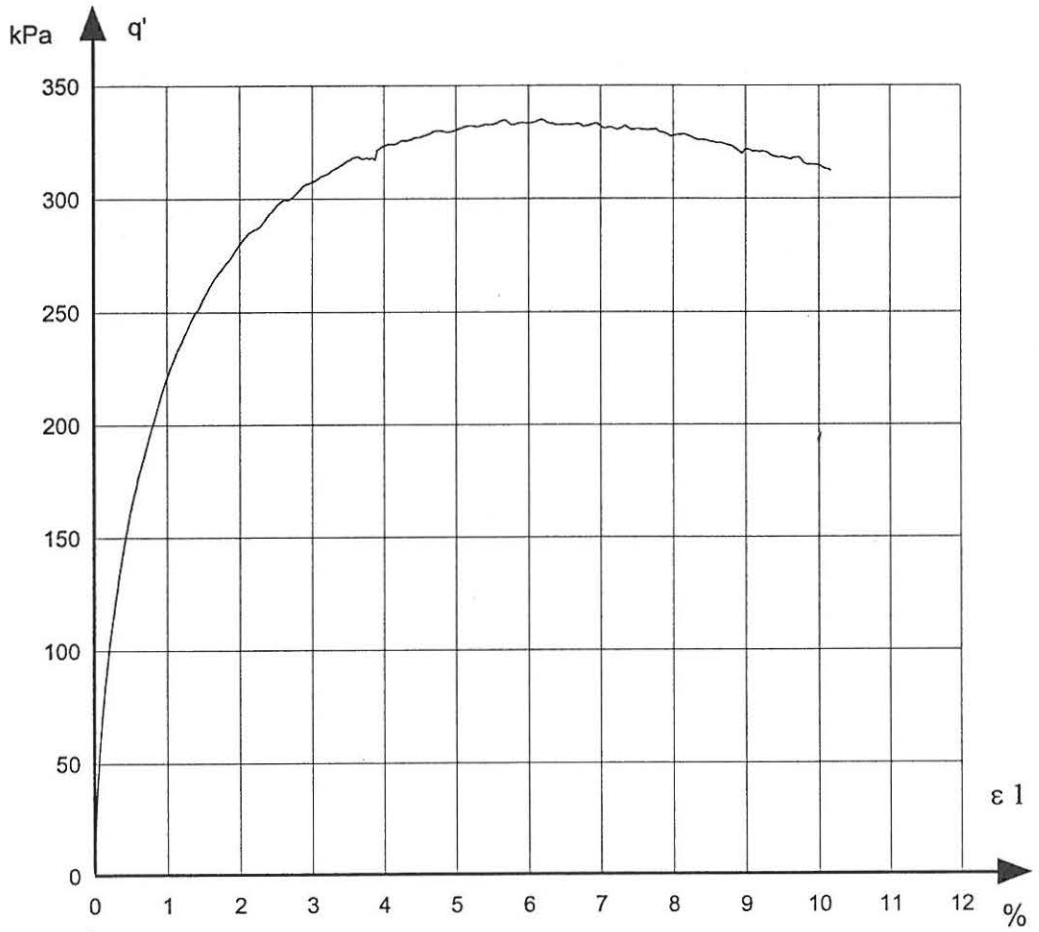


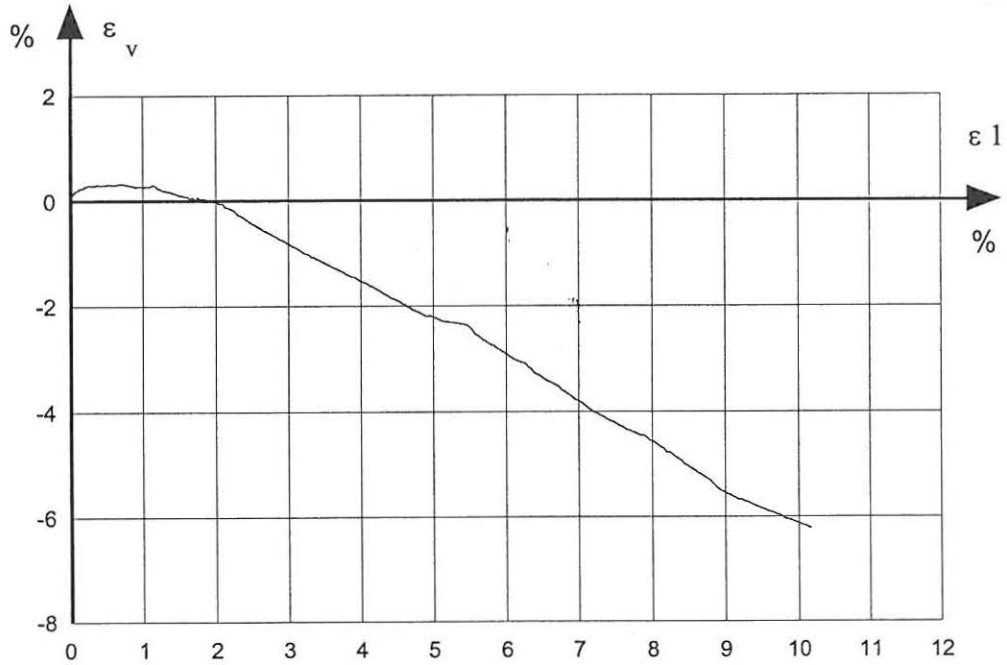


q'	p'	ε 1	ε ν
-0.05	78.80	0.00	0.00
13.34	83.39	0.01	0.08
34.40	90.28	0.03	0.13
58.78	98.53	0.08	0.19
87.17	107.87	0.15	0.25
126.33	120.92	0.30	0.29
156.89	131.24	0.46	0.31
189.15	141.74	0.70	0.34
216.95	151.26	0.95	0.29
241.45	159.30	1.26	0.21
276.30	170.91	1.92	0.02
287.57	174.05	2.27	-0.22
299.87	179.02	2.62	-0.52
307.24	181.22	2.98	-0.79
313.90	183.32	3.34	-1.07
317.73	184.35	3.72	-1.33
324.21	187.13	4.08	-1.57
329.67	188.45	4.84	-2.14
334.08	190.42	5.60	-2.54
334.98	190.72	6.17	-3.04
331.62	189.10	7.14	-3.94
328.37	188.02	7.92	-4.48
324.28	186.91	8.70	-5.23
318.44	185.21	9.49	-5.84

Job:	Encl. No
Lund No 0	59
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.106



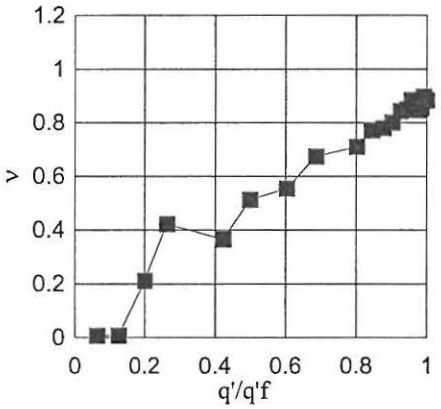


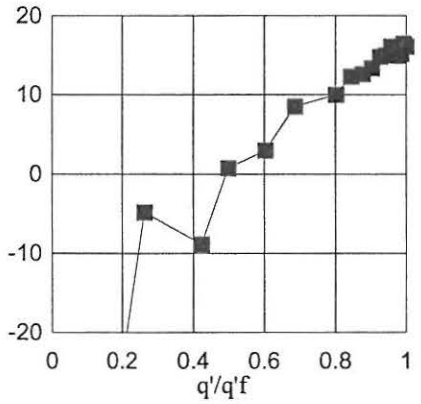
Job: Lund No 0	Encl. No 60
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.559	0.611
		Saturation	1.01	
kal500_891	16.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.034	%
free ends		ε ν	0.109	%
	2.Drained compression.			
	Deformation rate:		8.2	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	614.96	kPa	260.71	kPa
Mean normal stress	p'	362.99	kPa	244.03	kPa
Confining pressures	σ3	158.00	kPa	157.13	kPa
Vertical strain	ε 1	6.37	%	0.46	%
Volumetric strain	ε ν	-3.31	%	0.25	%

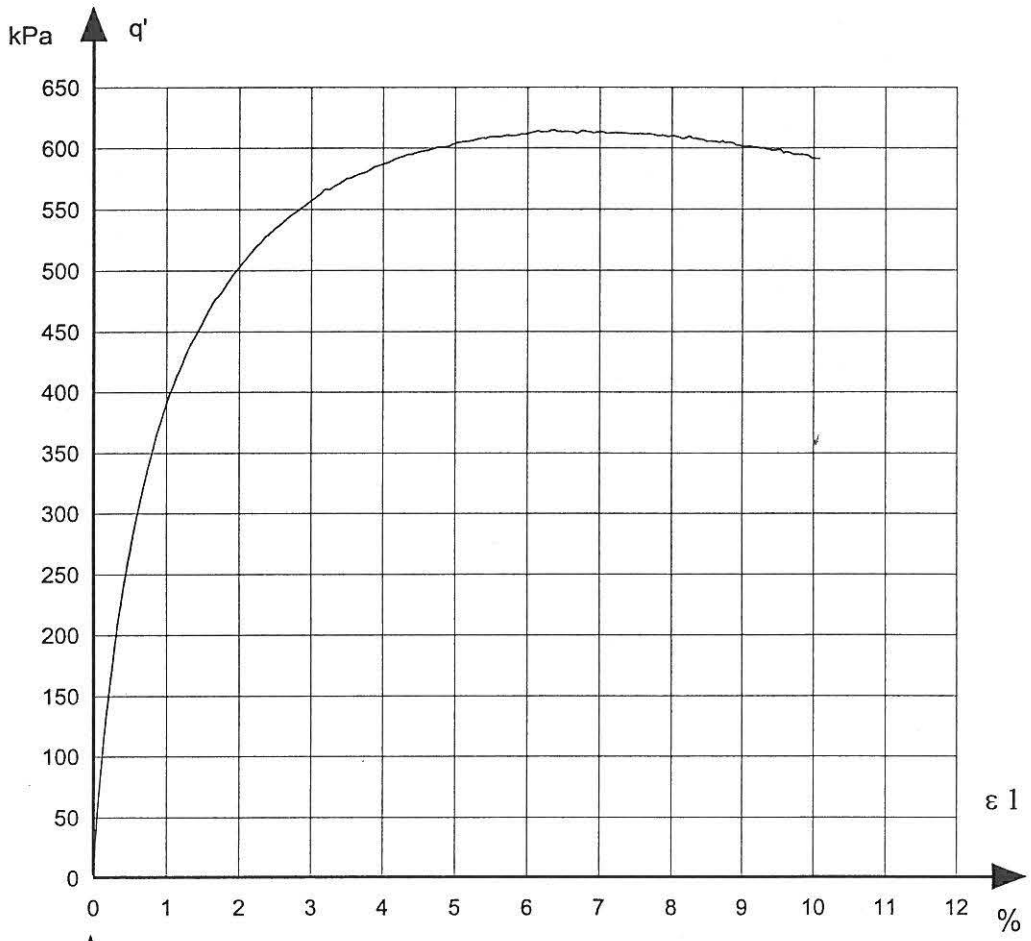


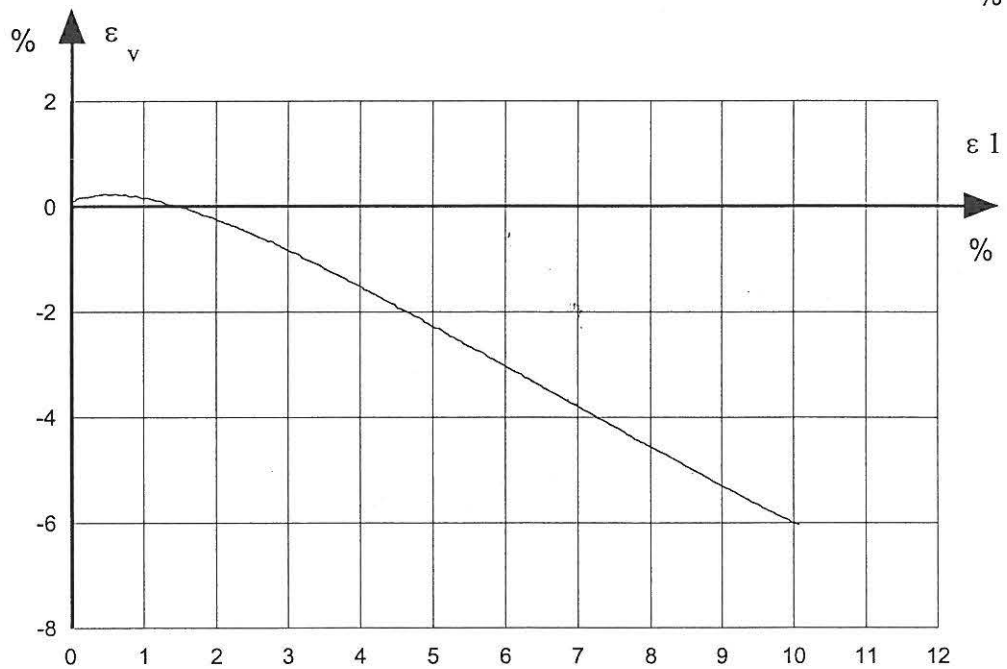


q'	p'	ε 1	ε ν
0.15	157.18	0.00	0.00
10.27	160.80	0.01	0.06
38.51	169.96	0.03	0.09
76.41	182.85	0.08	0.13
123.49	198.17	0.15	0.17
162.65	211.22	0.22	0.19
260.71	244.03	0.46	0.25
306.61	259.83	0.61	0.25
371.47	281.45	0.89	0.22
422.78	298.80	1.20	0.11
493.12	322.00	1.86	-0.17
519.11	331.04	2.21	-0.36
538.39	336.97	2.57	-0.56
554.83	342.44	2.94	-0.78
568.95	347.28	3.31	-1.03
579.50	350.42	3.68	-1.29
588.16	353.68	4.06	-1.58
601.24	357.91	4.81	-2.10
609.47	360.66	5.57	-2.70
614.96	362.99	6.37	-3.31
612.14	361.30	7.10	-3.87
610.66	361.18	7.86	-4.47
605.51	359.46	8.63	-5.02
598.48	356.62	9.41	-5.60

Job:	Encl. No
Lund No 0	61
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.061



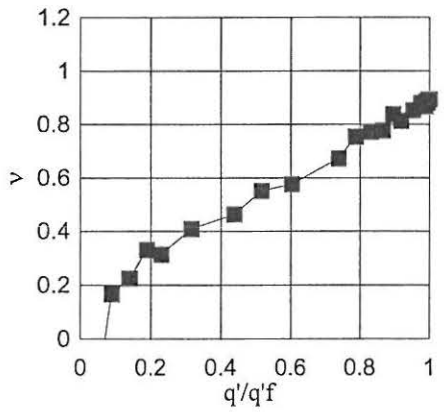


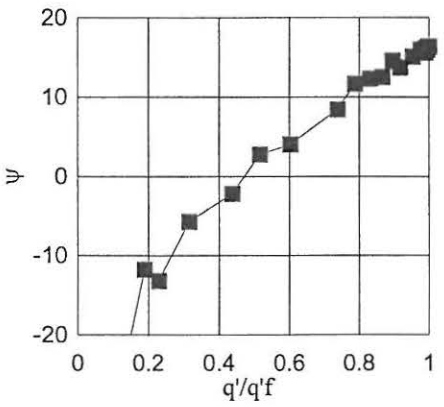
Job: Lund No 0	Encl. No 62
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.559	0.618
		Saturation	1.05	
kal500_891	17.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.034	%
free ends		ε ν	0.109	%
	2.Drained compression.			
	Deformation rate:		7.9	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	618.43	kPa	270.42	kPa
Mean normal stress	p'	363.89	kPa	247.77	kPa
Confining pressures	σ3	157.75	kPa	157.63	kPa
Vertical strain	ε 1	7.41	%	0.89	%
Volumetric strain	ε ν	-3.74	%	0.29	%

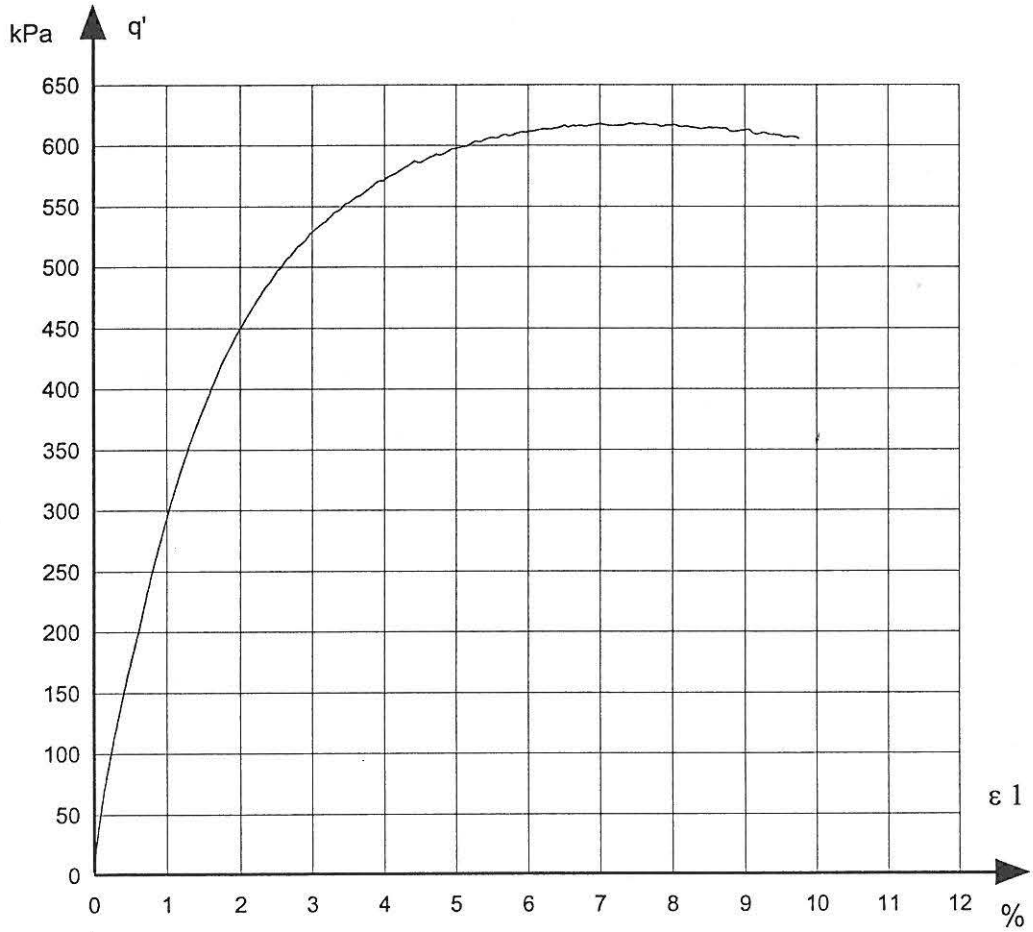


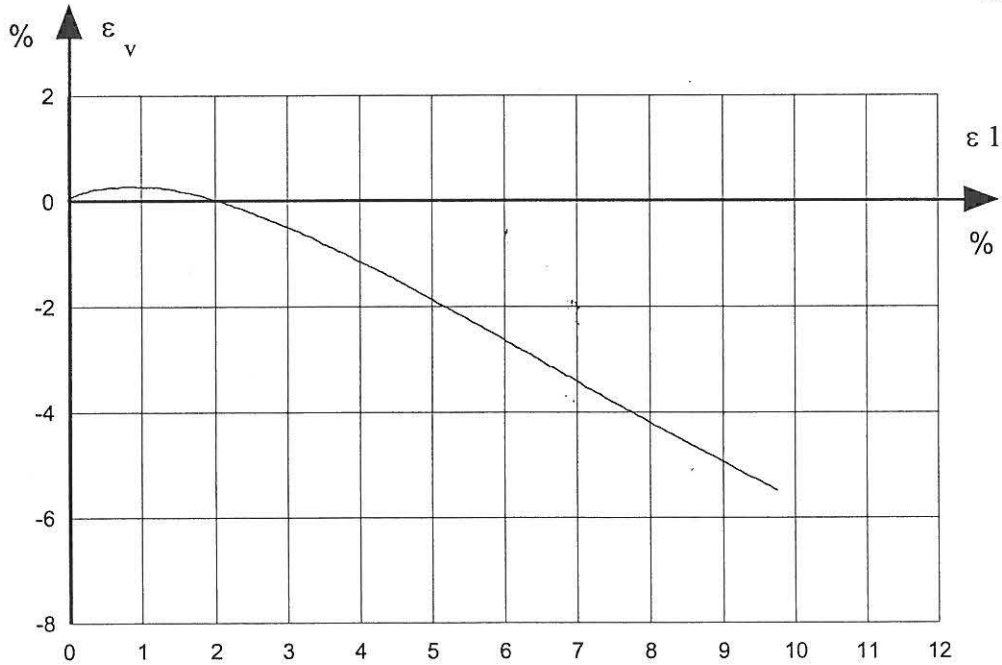


q'	p'	ε 1	ε ν
0.15	157.43	0.00	0.00
14.64	161.88	0.01	0.04
38.19	170.23	0.05	0.09
54.63	176.21	0.09	0.11
86.14	186.46	0.18	0.16
116.83	196.82	0.28	0.20
142.08	204.74	0.38	0.23
195.53	222.55	0.58	0.27
270.42	247.77	0.89	0.29
318.51	263.92	1.11	0.27
372.55	281.69	1.42	0.22
456.90	309.67	2.06	0.00
487.43	319.98	2.41	-0.17
514.16	329.14	2.76	-0.36
535.12	336.12	3.11	-0.56
553.09	342.49	3.47	-0.80
567.14	347.05	3.84	-1.03
588.84	354.16	4.57	-1.54
602.86	358.33	5.31	-2.11
612.16	361.81	6.06	-2.68
616.18	363.15	6.81	-3.27
618.43	363.89	7.41	-3.74
614.72	362.41	8.33	-4.44
611.14	361.21	9.09	-5.00

Job:	Encl. No
Lund No 0	63
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.090



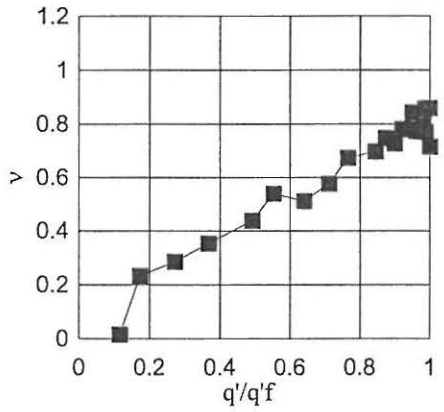


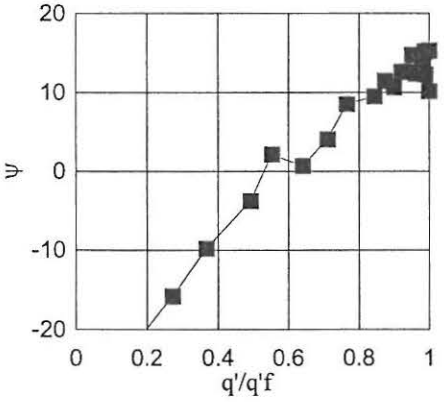
Job: Lund No 0	Encl. No 64
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.558	0.601
		Saturation	1.01	
k2000_891	22.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-320	kPa
CD - Triaxial test.		ε 1	0.119	%
free ends		ε ν	0.238	%
	2.Drained compression.			
	Deformation rate:		8.7	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 061.47	kPa	521.70	kPa
Mean normal stress	p'	665.07	kPa	486.90	kPa
Confining pressures	σ3	311.25	kPa	313.00	kPa
Vertical strain	ε 1	7.34	%	0.76	%
Volumetric strain	ε ν	-2.80	%	0.29	%

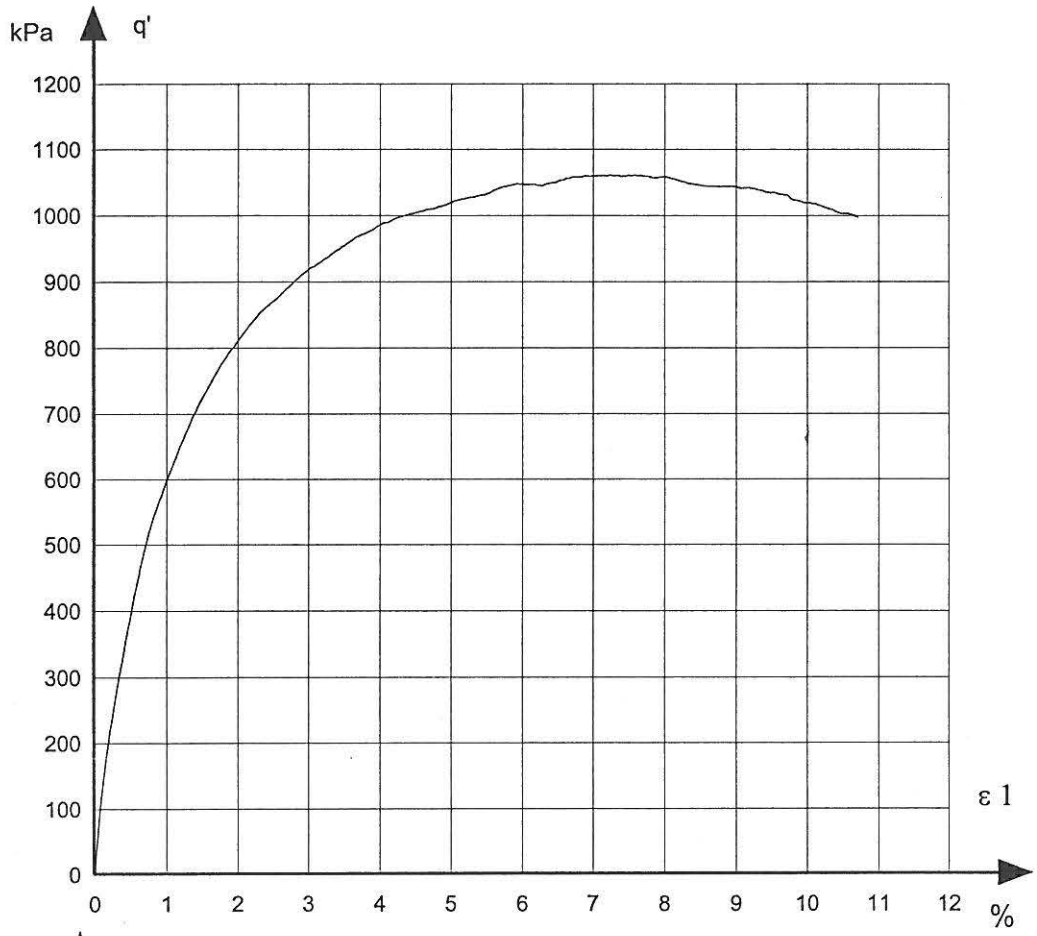


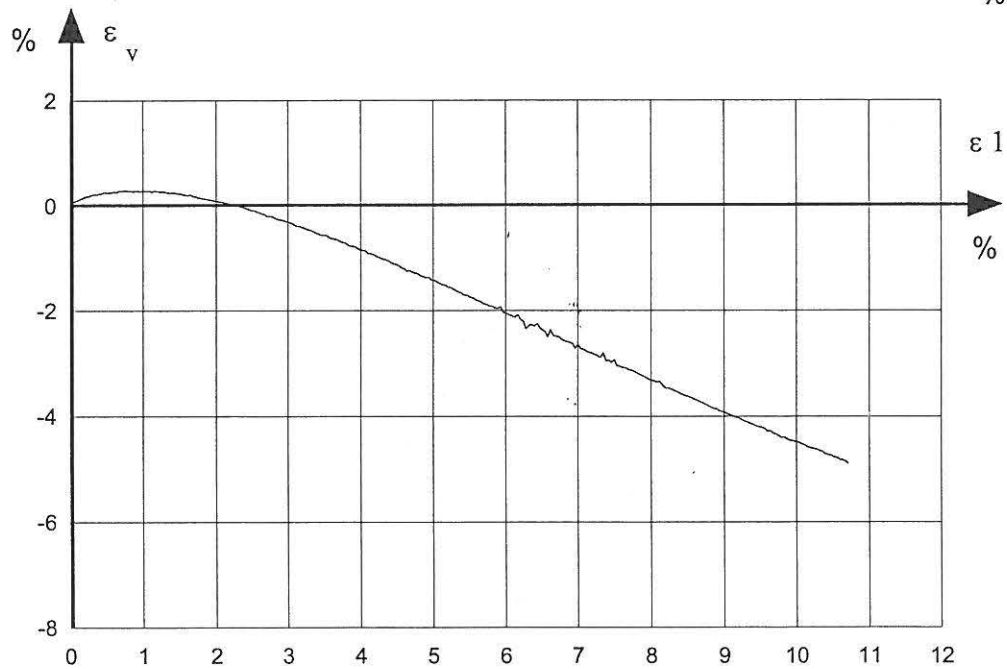


q'	p'	ε 1	ε ν
0.00	308.50	0.00	0.00
41.27	321.50	0.02	0.04
122.05	349.05	0.09	0.10
183.01	369.00	0.16	0.14
289.07	404.73	0.32	0.21
390.19	440.69	0.48	0.26
521.70	486.90	0.76	0.29
586.95	506.15	0.95	0.28
679.78	537.84	1.29	0.27
754.90	563.26	1.64	0.22
812.75	582.67	2.00	0.09
895.64	608.54	2.74	-0.20
927.55	620.56	3.12	-0.39
954.73	629.99	3.49	-0.56
977.81	637.69	3.87	-0.77
997.81	644.23	4.25	-0.98
1009.32	646.06	4.63	-1.24
1030.58	652.52	5.39	-1.66
1048.03	658.84	6.16	-2.07
1059.77	664.76	6.92	-2.62
1061.47	665.07	7.34	-2.80
1047.10	657.65	8.47	-3.60
1041.21	658.19	9.24	-4.06
1019.86	649.70	10.03	-4.49

Job:	Encl. No
Lund No 0	65
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.050



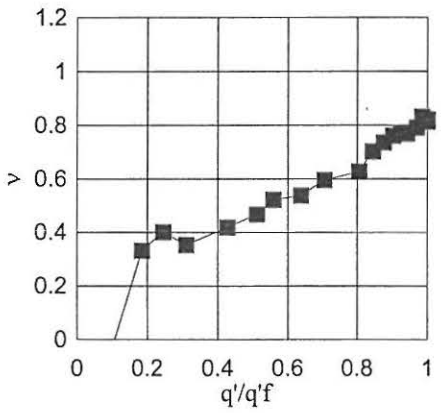


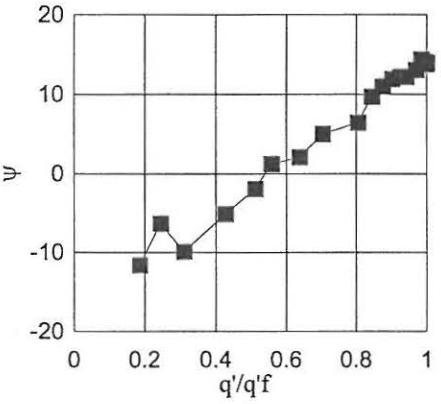
Job: Lund No 0	Encl. No 66
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.562	0.610
		Saturation	1.04	
k2000_891	23.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-320	kPa
CD - Triaxial test.		ε 1	0.111	%
free ends		ε ν	0.272	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 018.26	kPa	521.35	kPa
Mean normal stress	p'	651.54	kPa	485.03	kPa
Confining pressures	σ3	312.12	kPa	311.25	kPa
Vertical strain	ε 1	8.23	%	1.24	%
Volumetric strain	ε ν	-3.05	%	0.35	%

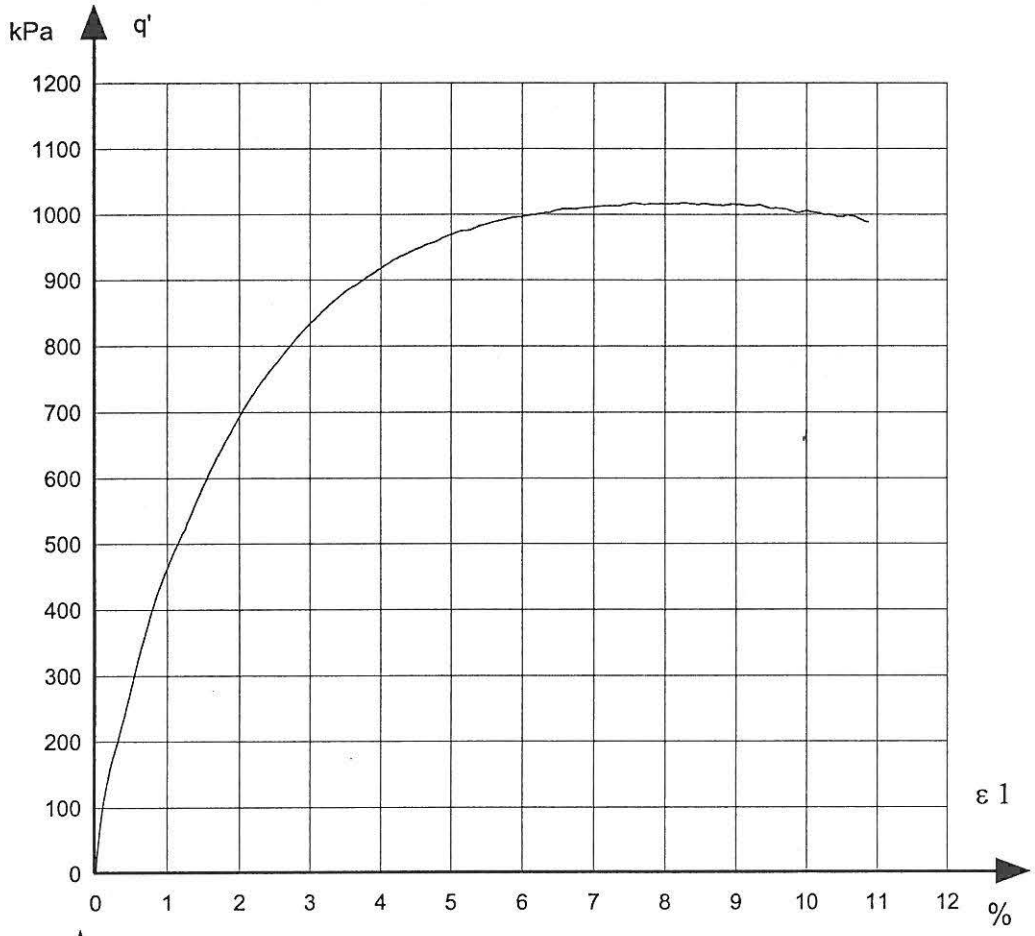


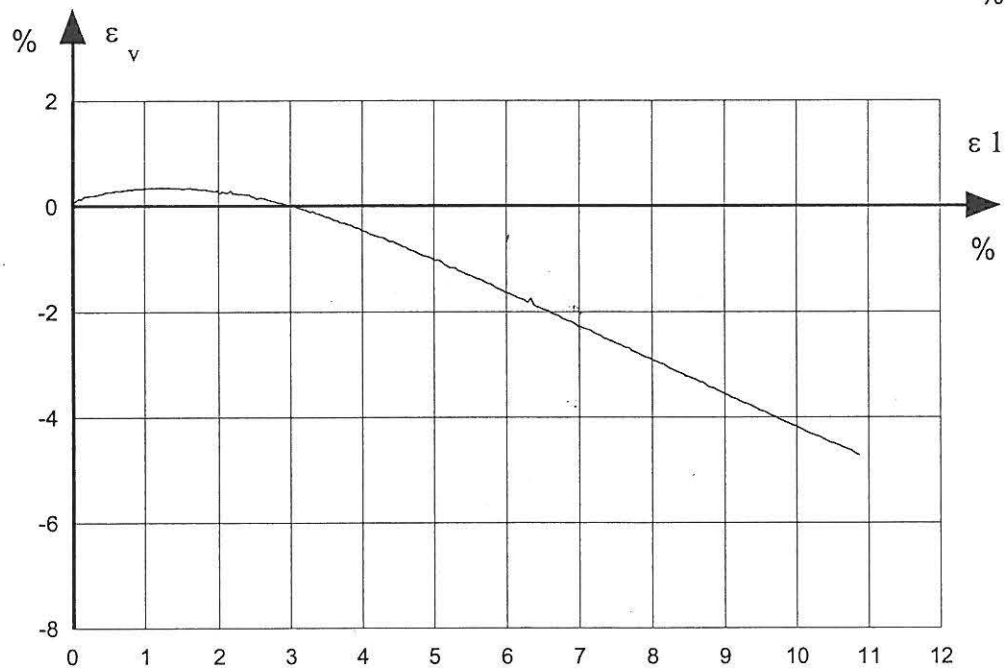


q'	p'	ε 1	ε ν
0.58	306.69	0.00	0.00
44.00	325.79	0.03	0.08
101.91	344.22	0.10	0.15
187.96	373.03	0.27	0.20
249.54	394.05	0.42	0.23
316.78	417.47	0.57	0.28
435.02	457.01	0.90	0.33
521.35	485.03	1.24	0.35
568.47	499.86	1.41	0.35
649.54	528.14	1.77	0.32
717.68	551.35	2.12	0.25
820.03	584.97	2.86	0.07
859.81	598.35	3.24	-0.08
891.06	608.52	3.62	-0.26
918.43	617.64	3.99	-0.46
941.50	625.96	4.37	-0.66
958.22	630.78	4.75	-0.86
986.73	640.91	5.52	-1.31
1002.01	645.88	6.29	-1.82
1012.53	648.76	7.06	-2.31
1018.26	651.54	8.23	-3.05
1016.07	650.69	8.62	-3.30
1012.44	649.73	9.40	-3.81
1002.17	645.81	10.20	-4.30

Job:	Encl. No
Lund No 0	67
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.500



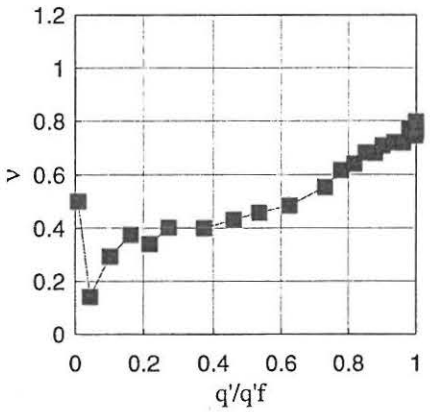


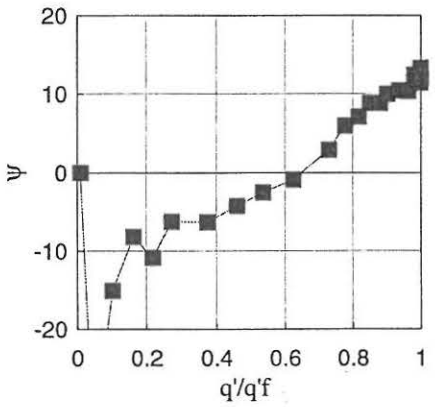
Job: Lund No 0	Encl. No 68
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.0	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.563	0.606
		Saturation	1.04	
k2000_892	29.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-620	kPa
CD - Triaxial test.		ε 1	0.194	%
free ends		ε ν	0.502	%
	2.Drained compression.			
	Deformation rate:		8.1	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 881.37	kPa	1 173.23	kPa
Mean normal stress	p'	1 251.12	kPa	1 013.83	kPa
Confining pressures	σ3	624.00	kPa	622.75	kPa
Vertical strain	ε 1	9.01	%	1.81	%
Volumetric strain	ε ν	-2.76	%	0.30	%

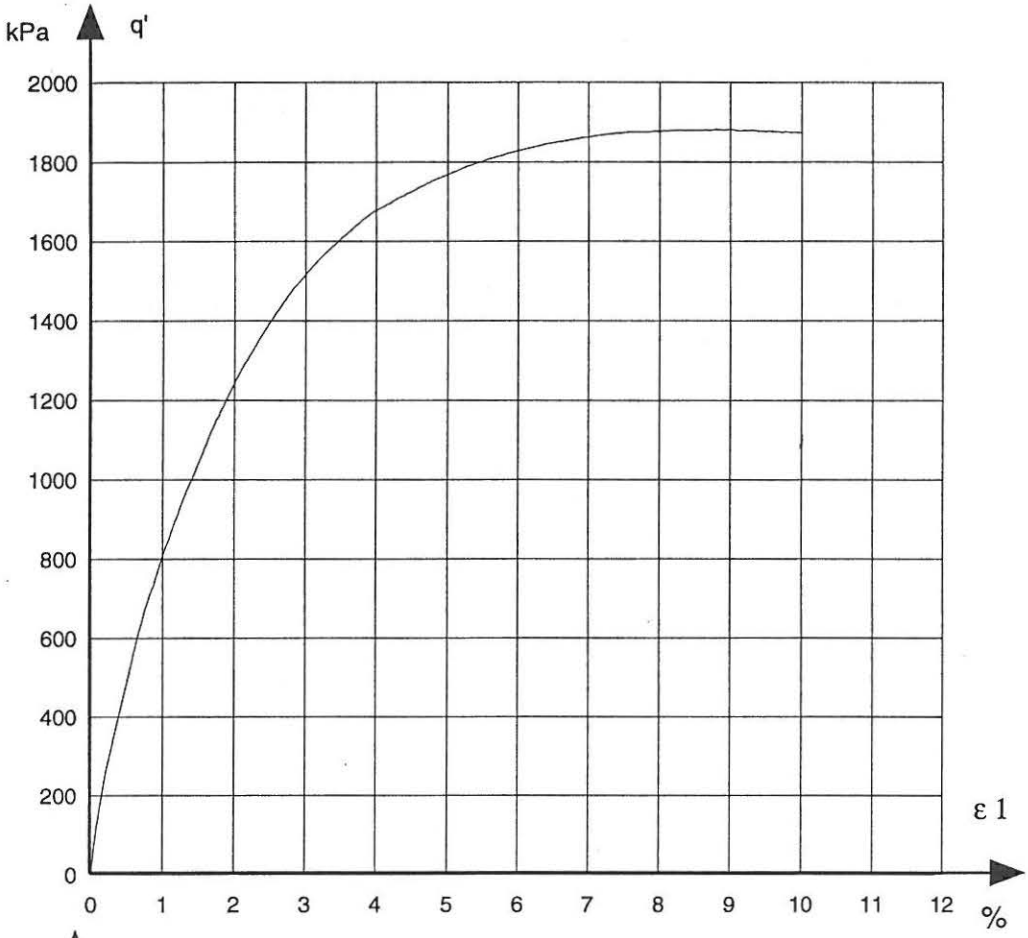


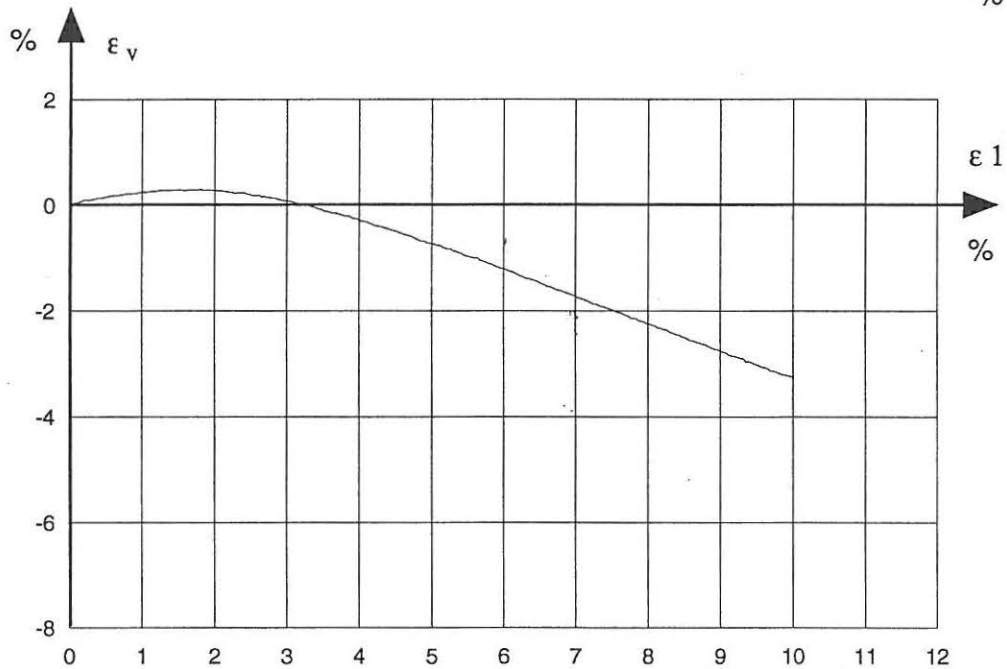


q'	p'	ε 1	ε ν
0.00	622.50	0.00	0.00
16.88	628.88	0.01	0.00
82.04	648.35	0.05	0.03
190.75	686.08	0.14	0.06
304.46	722.74	0.26	0.09
409.84	759.36	0.39	0.14
511.45	792.48	0.53	0.16
701.76	856.67	0.81	0.22
864.36	911.87	1.11	0.26
1006.83	957.61	1.43	0.29
1173.23	1013.83	1.81	0.30
1371.36	1079.37	2.41	0.23
1462.39	1111.21	2.75	0.15
1536.94	1136.56	3.10	0.06
1597.84	1155.86	3.45	-0.07
1653.60	1176.20	3.81	-0.20
1693.78	1187.84	4.17	-0.35
1760.18	1210.23	4.89	-0.67
1809.54	1225.18	5.63	-0.99
1842.58	1237.69	6.36	-1.39
1865.15	1245.22	7.10	-1.78
1876.06	1247.86	7.84	-2.14
1881.37	1251.12	9.01	-2.76
1878.75	1250.25	9.35	-2.96

Job:	Encl. No
Lund No 0	69
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = 0.085



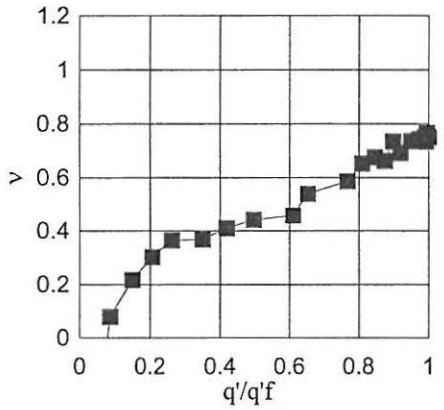


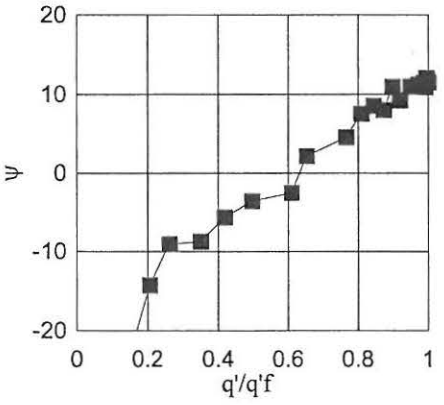
Job: Lund No 0	Encl. No 70
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.557	0.590
		Saturation	1.02	
k2000_892	31.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-620	kPa
CD - Triaxial test.		ε 1	0.287	%
free ends		ε ν	0.642	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 869.48	kPa	1 140.48	kPa
Mean normal stress	p'	1 249.91	kPa	1 003.91	kPa
Confining pressures	σ3	626.75	kPa	623.75	kPa
Vertical strain	ε 1	8.04	%	1.70	%
Volumetric strain	ε ν	-2.15	%	0.43	%

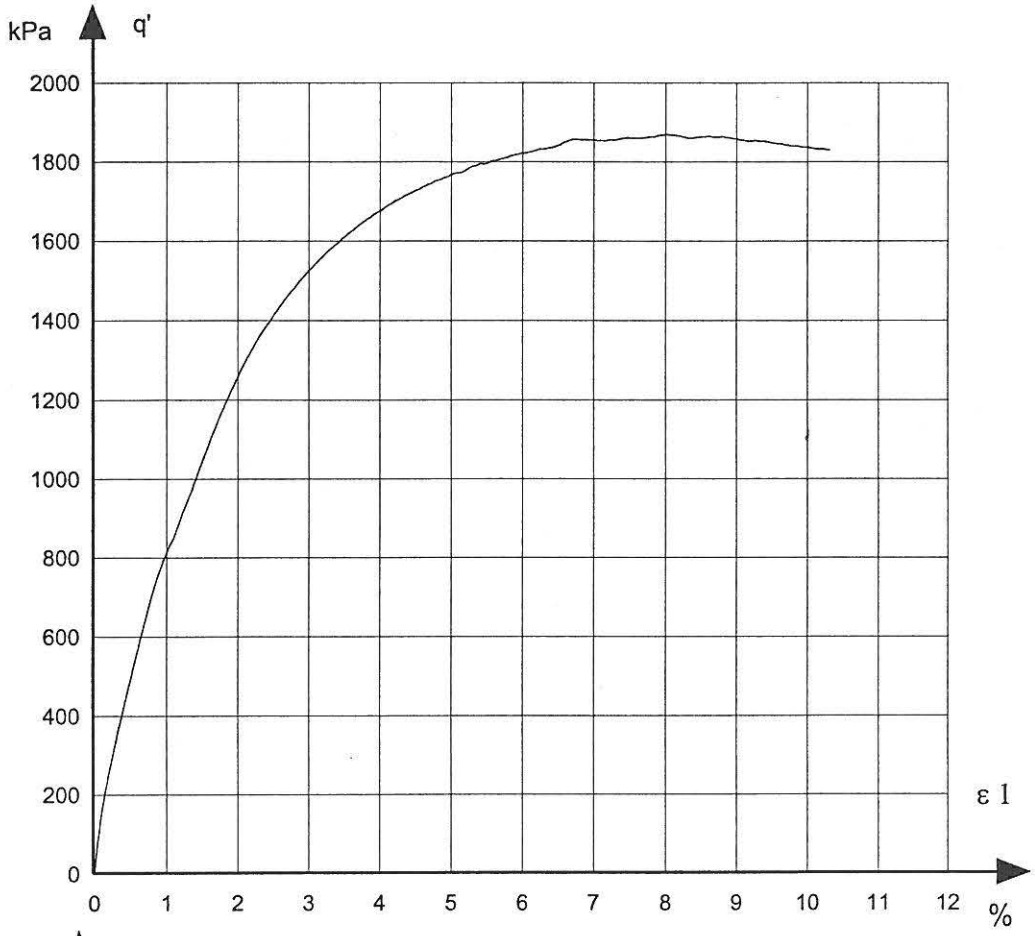


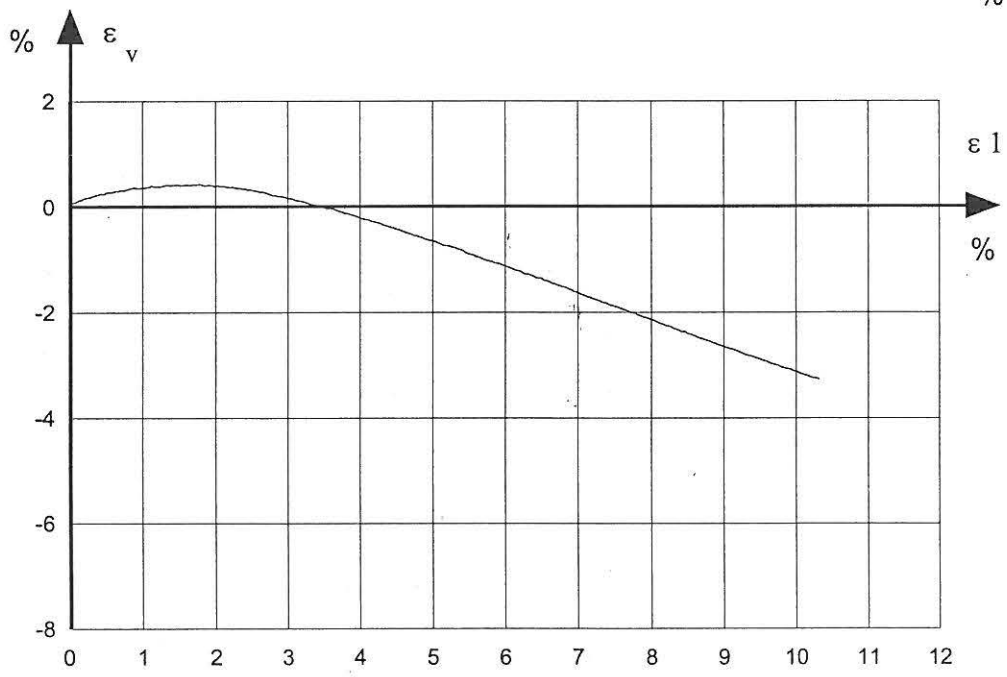


q'	p'	ε 1	ε ν
0.58	624.19	0.00	0.00
27.37	632.12	0.01	0.03
158.38	676.04	0.10	0.10
276.44	716.65	0.22	0.17
384.96	751.57	0.35	0.22
490.29	786.18	0.49	0.26
655.32	841.44	0.72	0.32
781.53	883.26	0.93	0.36
928.22	933.66	1.25	0.40
1140.48	1003.91	1.70	0.43
1221.19	1031.06	1.89	0.42
1433.69	1100.40	2.58	0.30
1513.05	1127.60	2.93	0.20
1578.83	1149.78	3.28	0.07
1632.74	1166.25	3.64	-0.05
1677.88	1181.04	4.01	-0.22
1717.38	1195.96	4.37	-0.35
1772.73	1214.41	5.11	-0.70
1816.52	1228.26	5.85	-1.06
1851.64	1243.96	6.60	-1.41
1857.93	1242.31	7.35	-1.81
1869.48	1249.91	8.04	-2.15
1861.56	1245.02	8.88	-2.57
1844.85	1237.95	9.65	-2.96

Job:	Encl. No
Lund No 0	71
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.088



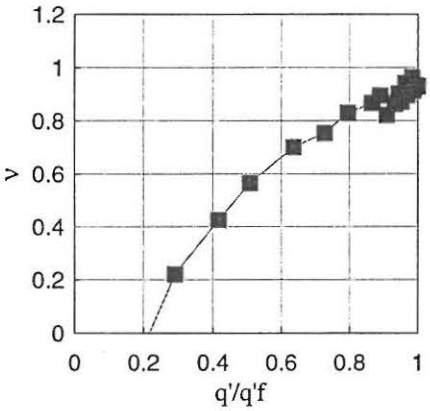


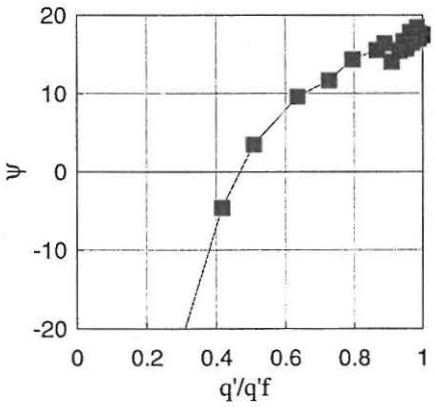
Job: Lund No 0	Encl. No 72
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	20.8	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.558	0.617
		Saturation	0.99	
kal200_891	14.08.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-20	kPa
CD - Triaxial test.		ε 1	-0.093	%
free ends		ε ν	-0.076	%
	2.Drained compression.			
	Deformation rate:		8.9	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	103.64	kPa	43.14	kPa
Mean normal stress	p'	55.19	kPa	34.90	kPa
Confining pressures	σ3	20.64	kPa	20.52	kPa
Vertical strain	ε 1	5.50	%	0.25	%
Volumetric strain	ε ν	-3.82	%	0.14	%

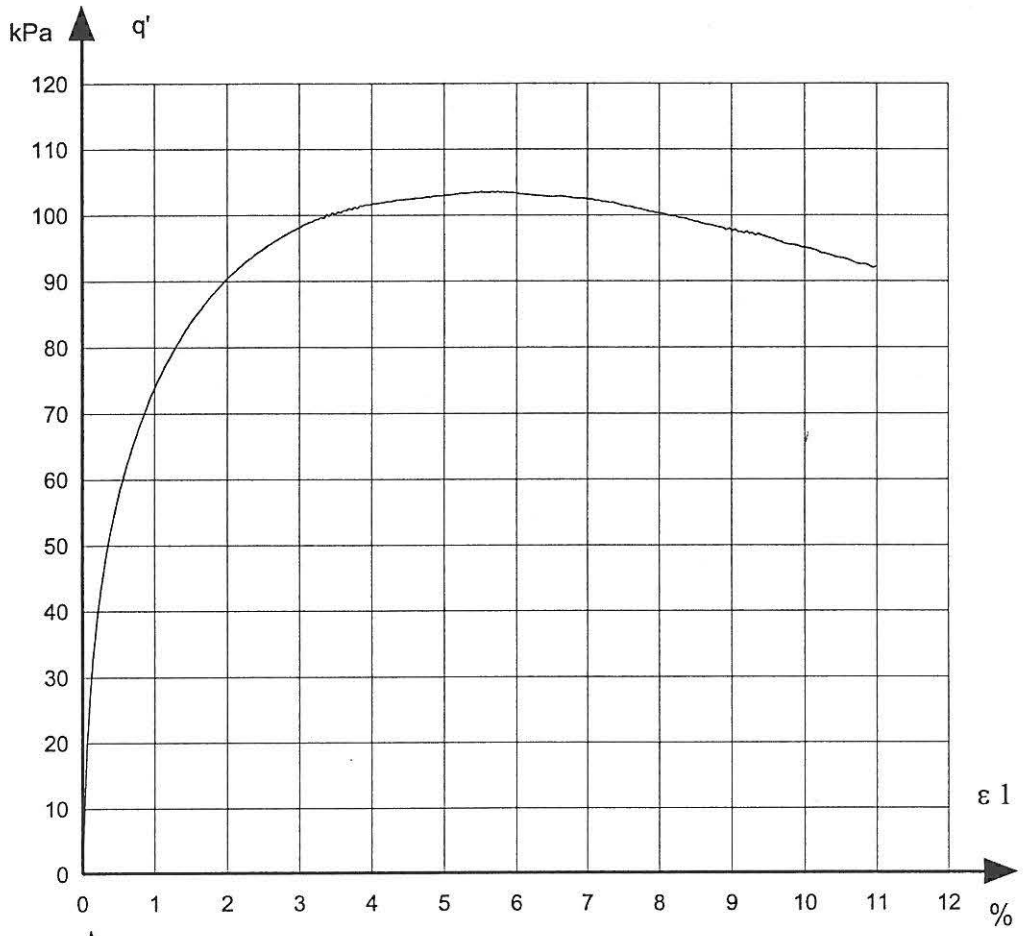


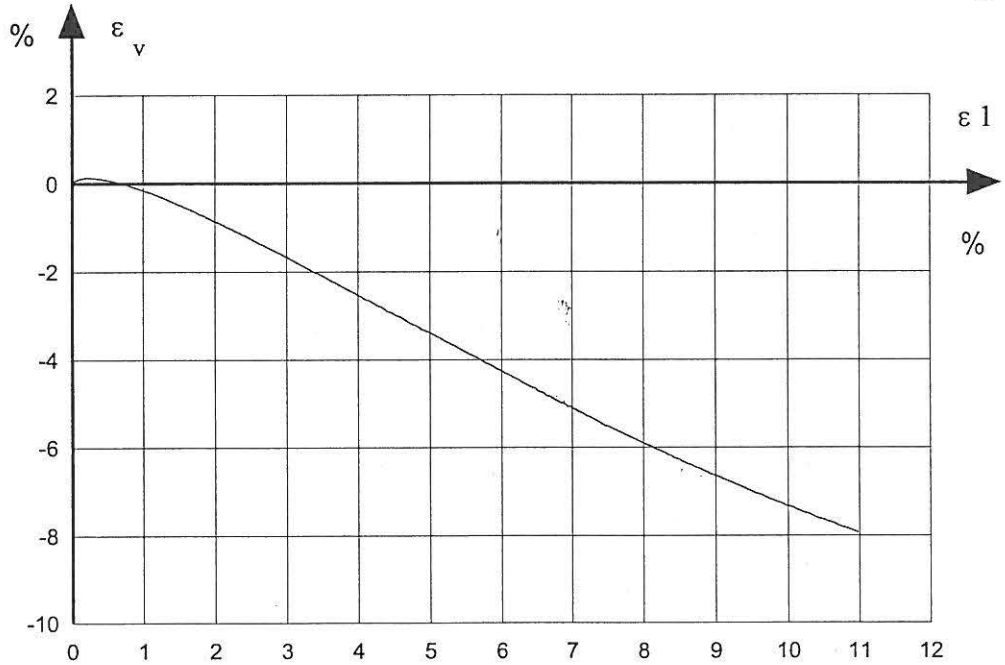


q'	p'	ε 1	ε ν
0.05	20.53	0.00	0.00
7.10	22.63	0.02	0.04
19.59	27.17	0.06	0.09
30.10	30.68	0.12	0.12
43.14	34.90	0.25	0.14
52.61	38.18	0.39	0.12
65.87	42.47	0.71	-0.00
75.37	45.76	1.05	-0.18
82.44	48.00	1.41	-0.41
89.63	50.52	1.92	-0.79
92.00	51.31	2.15	-0.97
97.71	53.21	2.91	-1.58
99.73	54.01	3.29	-1.92
101.05	54.45	3.68	-2.24
101.85	54.59	4.07	-2.60
102.47	54.92	4.46	-2.93
102.93	55.08	4.84	-3.26
103.64	55.19	5.50	-3.82
102.94	55.08	6.39	-4.59
102.32	54.87	7.16	-5.23
100.47	54.38	7.94	-5.85
98.64	53.52	8.65	-6.38
96.62	52.85	9.52	-7.01
94.11	52.01	10.31	-7.52

Job:	Encl. No
Lund No 0	73
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = 0.093



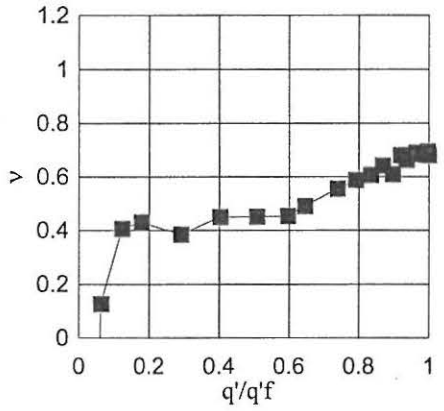


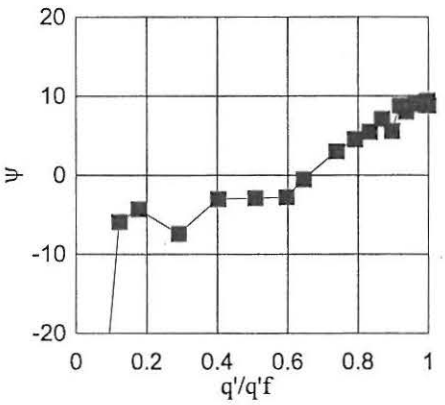
Job: Lund No 0	Encl. No 74
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.611	0.641
		Saturation	1.01	
k2000_892	04.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-620	kPa
CD - Triaxial test.		ε 1	0.240	%
free ends		ε ν	0.559	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 670.01	kPa	1077.74	kPa
Mean normal stress	p'	1 184.67	kPa	986.99	kPa
Confining pressures	σ3	628.00	kPa	627.75	kPa
Vertical strain	ε 1	8.46	%	1.73	%
Volumetric strain	ε ν	-1.85	%	0.30	%

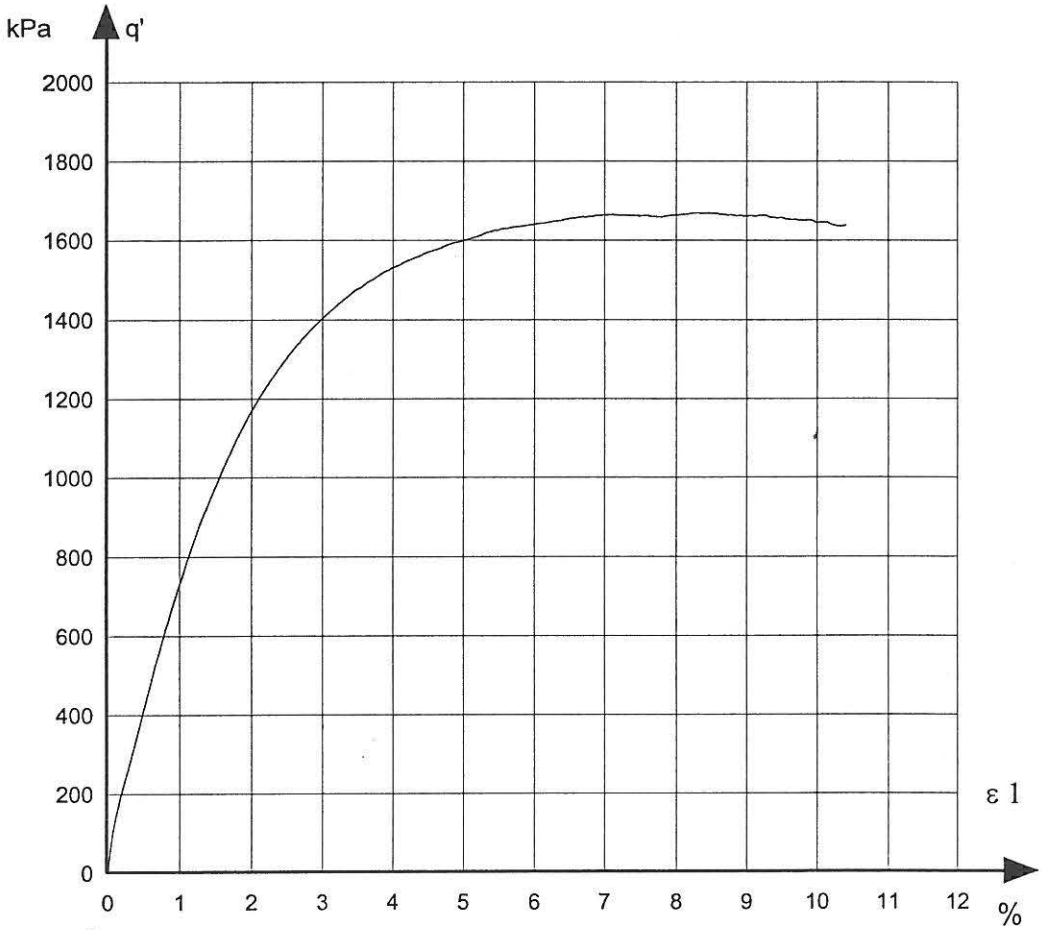


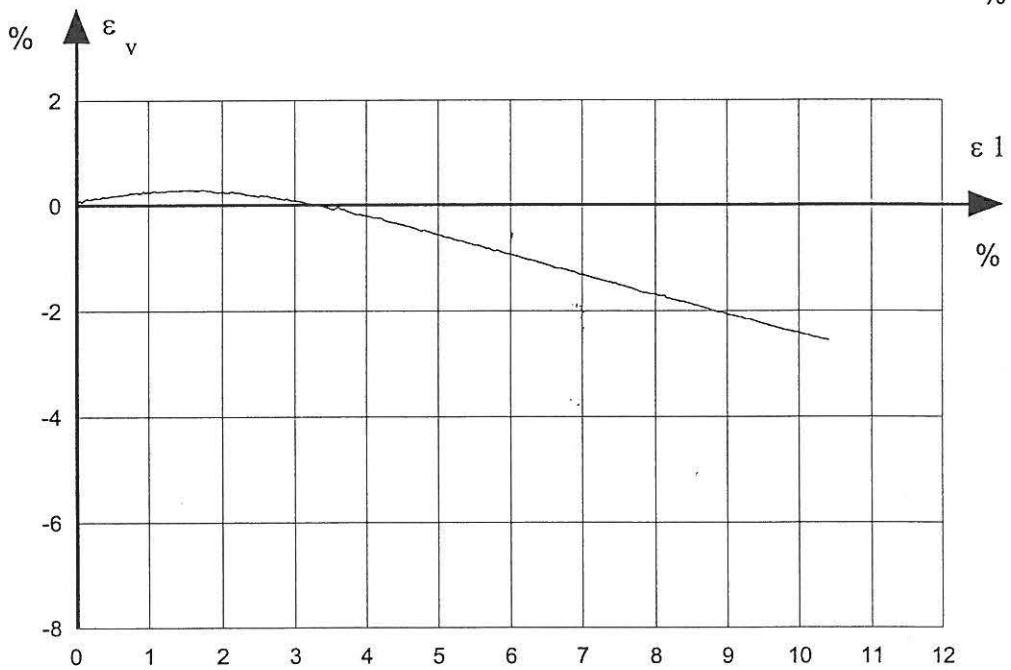


q'	p'	ε 1	ε ν
-0.58	622.81	0.00	0.00
13.39	626.47	0.00	0.05
103.04	657.35	0.07	0.10
202.98	692.41	0.19	0.12
294.52	723.92	0.32	0.14
486.33	788.86	0.60	0.20
672.31	846.35	0.90	0.23
847.37	907.46	1.21	0.26
995.98	956.99	1.53	0.29
1077.74	986.99	1.73	0.30
1235.06	1037.44	2.21	0.25
1321.89	1066.13	2.56	0.19
1391.80	1090.68	2.92	0.11
1449.32	1110.61	3.28	0.01
1496.44	1126.81	3.65	-0.07
1534.42	1139.47	4.02	-0.20
1563.18	1147.56	4.39	-0.32
1608.49	1163.41	5.14	-0.61
1638.43	1173.14	5.90	-0.89
1659.13	1180.04	6.65	-1.18
1663.96	1179.65	7.42	-1.48
1670.01	1184.67	8.46	-1.85
1662.39	1180.88	8.96	-2.04
1652.22	1177.74	9.74	-2.32

Job:	Encl. No
Lund No 0	75
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.099



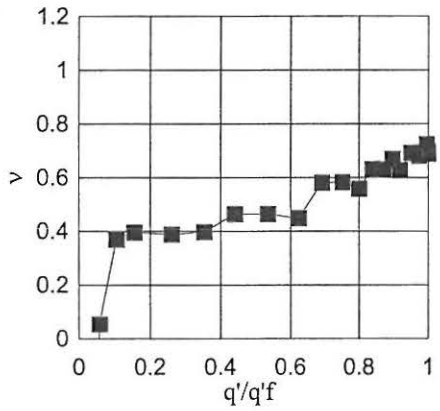


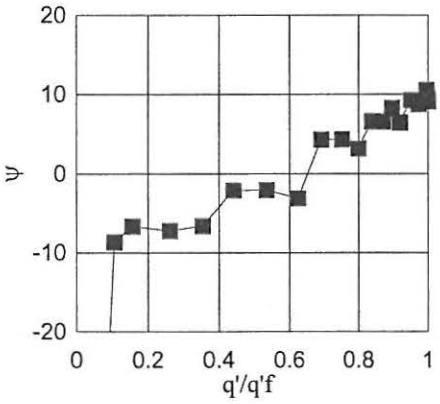
Job: Lund No 0	Encl. No 76
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.610	0.640
		Saturation	1.02	
k2000_892	05.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-620	kPa
CD - Triaxial test.		ε 1	0.257	%
free ends		ε ν	0.521	%
	2.Drained compression.			
	Deformation rate:		8.4	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 732.90	kPa	1083.19	kPa
Mean normal stress	p'	1 203.13	kPa	984.56	kPa
Confining pressures	σ3	625.50	kPa	623.50	kPa
Vertical strain	ε 1	8.68	%	1.89	%
Volumetric strain	ε ν	-1.89	%	0.35	%

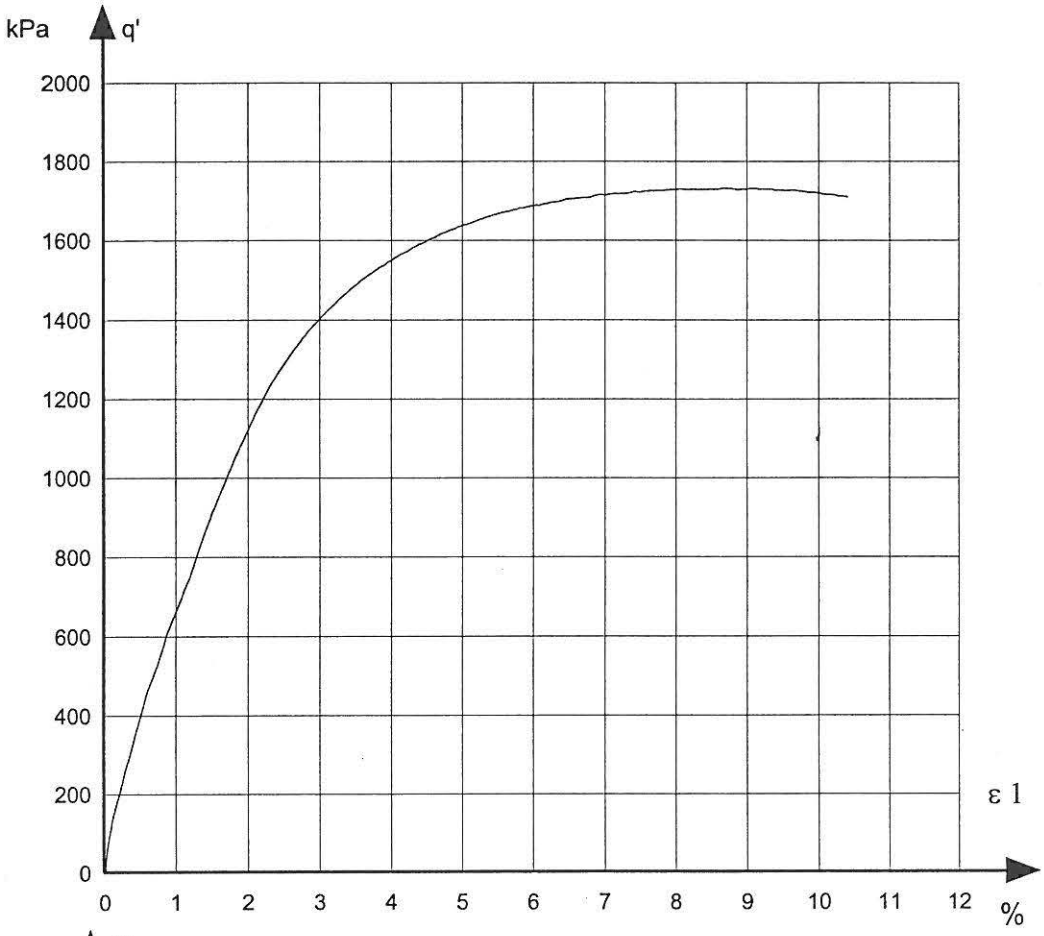




q'	p'	ε 1	ε ν
0.00	623.00	0.00	0.00
12.80	627.52	0.00	0.03
100.05	655.60	0.06	0.08
181.35	682.45	0.16	0.11
268.26	711.17	0.29	0.14
453.05	774.02	0.58	0.20
613.74	828.33	0.89	0.26
763.42	880.72	1.21	0.29
925.97	934.16	1.53	0.31
1083.19	984.56	1.89	0.35
1199.08	1025.69	2.20	0.30
1302.61	1059.20	2.55	0.24
1385.52	1087.84	2.90	0.20
1452.77	1110.01	3.27	0.11
1508.07	1128.69	3.63	0.01
1552.78	1144.59	4.00	-0.11
1591.30	1157.43	4.38	-0.21
1646.67	1175.39	5.13	-0.49
1685.00	1188.16	5.89	-0.77
1708.41	1194.72	6.65	-1.06
1724.28	1200.01	7.41	-1.40
1729.46	1201.49	8.18	-1.70
1732.90	1203.13	8.68	-1.89
1726.16	1200.89	9.73	-2.31

Job:	Encl. No
Lund No 0	77
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.115

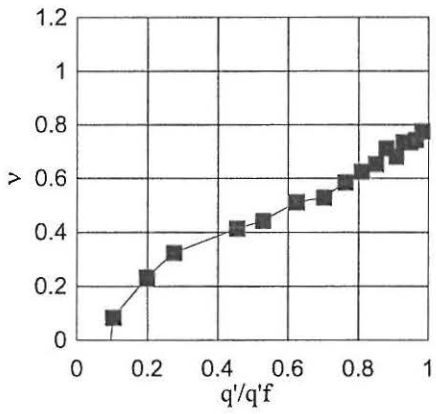


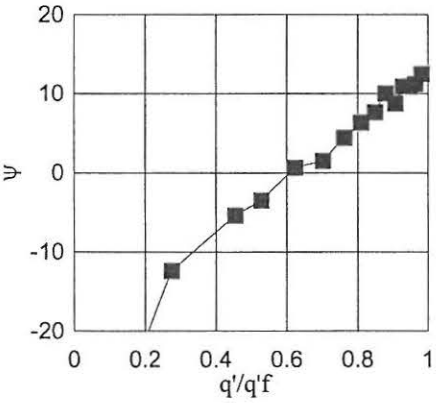
Job: Lund No 0	Encl. No 78
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.600	0.635
		Saturation	1.03	
k2000_892	06.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-310	kPa
CD - Triaxial test.		ε 1	0.096	%
free ends		ε ν	0.378	%
	2.Drained compression.			
	Deformation rate:		8.7	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	976.73	kPa	564.49	kPa
Mean normal stress	p'	634.20	kPa	495.79	kPa
Confining pressures	σ3	308.63	kPa	307.63	kPa
Vertical strain	ε 1	7.05	%	1.14	%
Volumetric strain	ε ν	-2.17	%	0.31	%

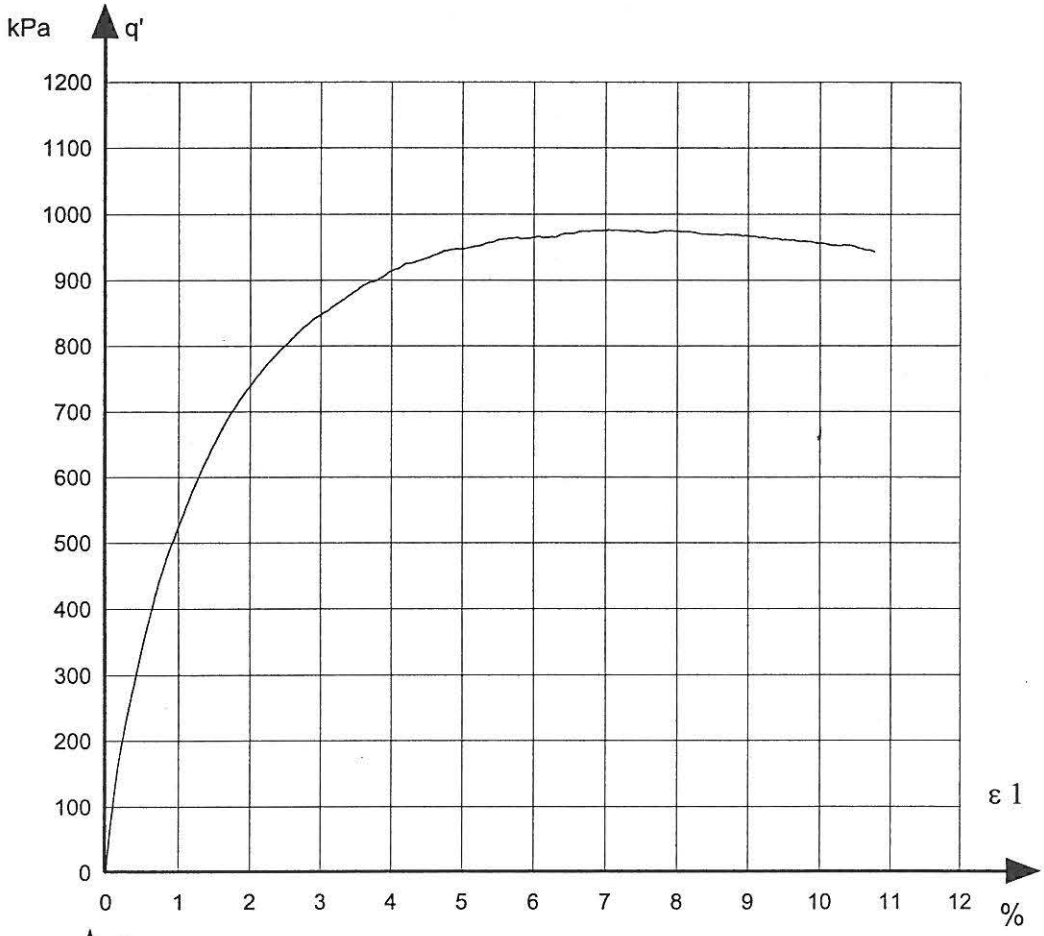


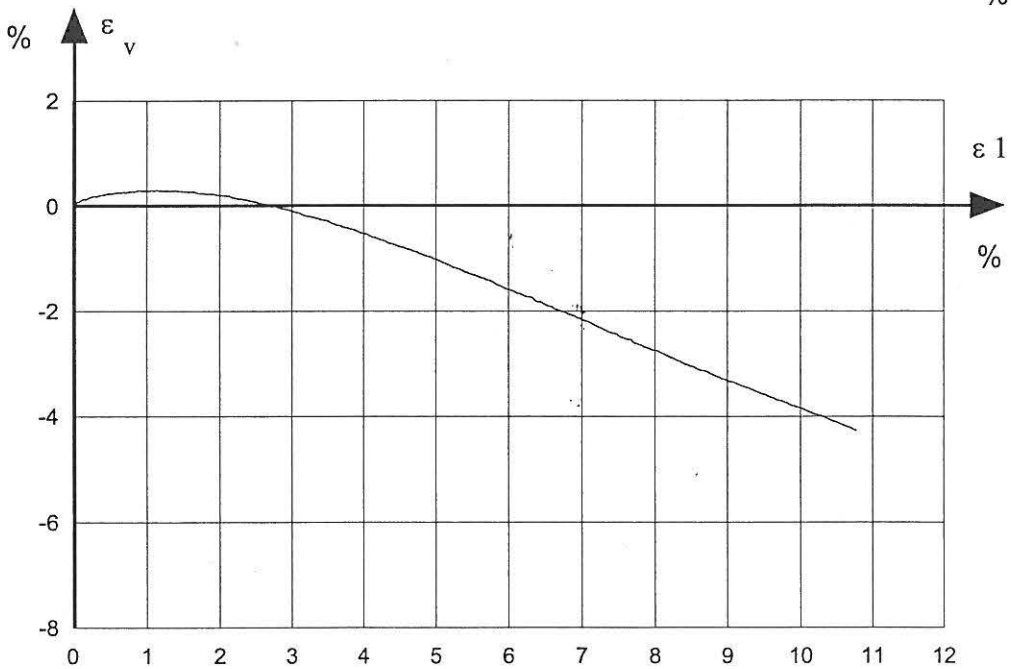


q'	p'	ε 1	ε ν
0.00	306.13	0.00	0.00
19.79	313.47	0.01	0.03
101.28	340.39	0.08	0.09
193.14	371.76	0.20	0.15
269.11	397.83	0.34	0.20
443.76	455.05	0.74	0.27
515.69	480.52	0.97	0.30
608.93	510.60	1.31	0.29
685.85	536.49	1.66	0.27
744.06	555.15	2.02	0.21
790.07	572.23	2.39	0.12
829.75	586.46	2.76	0.01
858.43	593.52	3.14	-0.15
885.83	603.40	3.51	-0.29
906.94	609.44	3.89	-0.46
926.65	618.01	4.27	-0.64
941.05	622.56	4.66	-0.83
958.89	627.01	5.43	-1.25
965.78	628.55	6.16	-1.67
976.42	633.35	6.97	-2.13
974.16	631.85	7.75	-2.61
970.06	630.48	8.53	-3.05
963.36	627.25	9.31	-3.47
955.53	625.14	10.10	-3.90

Job:	Encl. No
Lund No 0	79
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.051



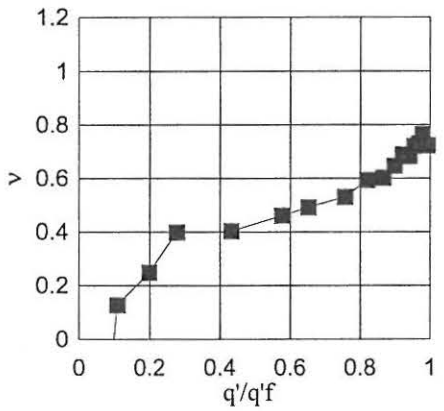


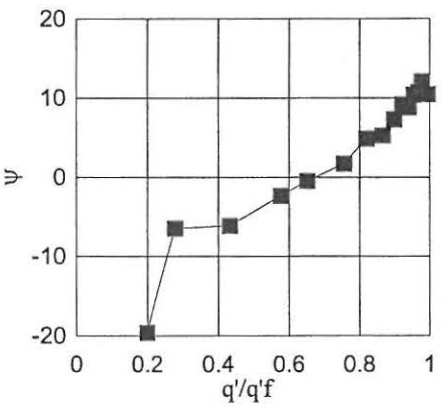
Job: Lund No 0	Encl. No 80
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.603	0.629
		Saturation	0.98	
k2000_892	18.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-310	kPa
CD - Triaxial test.		ε 1	0.115	%
free ends		ε ν	0.257	%
	2.Drained compression.			
	Deformation rate:		8.5	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	1 006.93	kPa	656.76	kPa
Mean normal stress	p'	648.02	kPa	528.29	kPa
Confining pressures	σ3	312.38	kPa	309.38	kPa
Vertical strain	ε 1	5.98	%	1.04	%
Volumetric strain	ε ν	-1.62	%	0.22	%

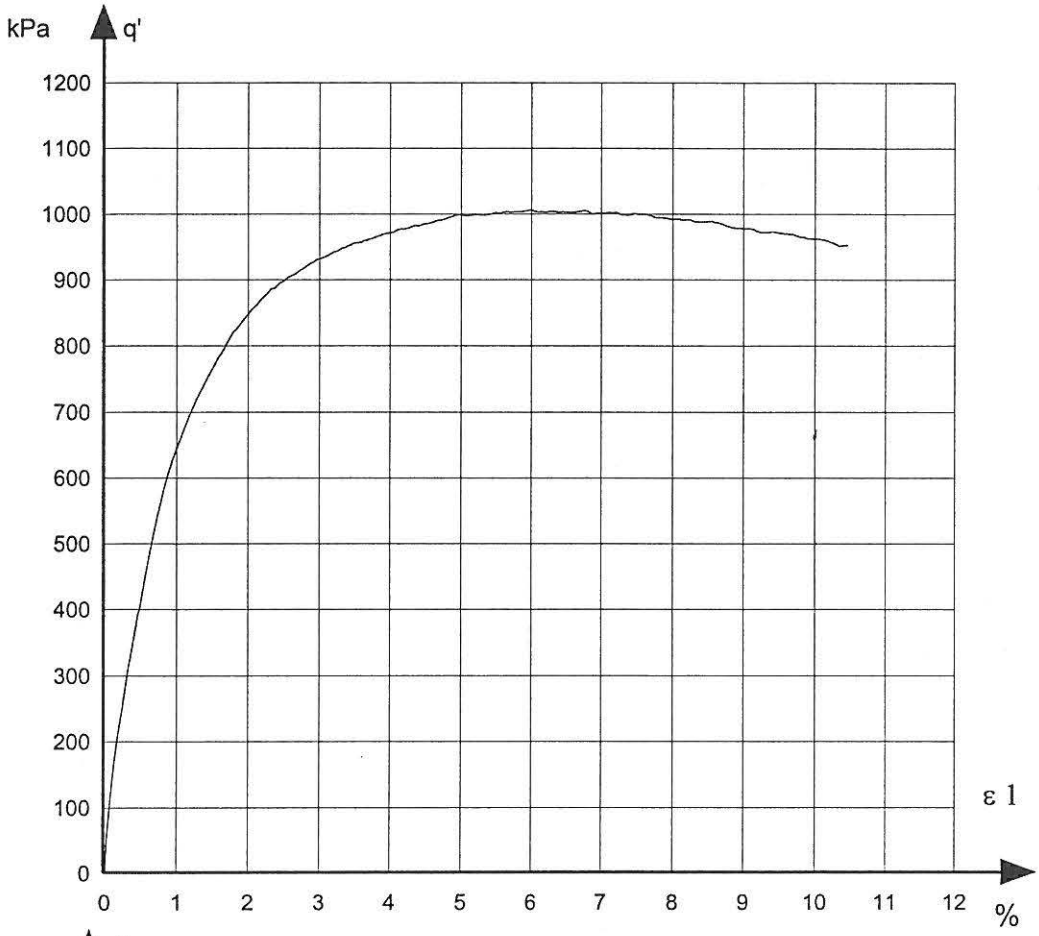


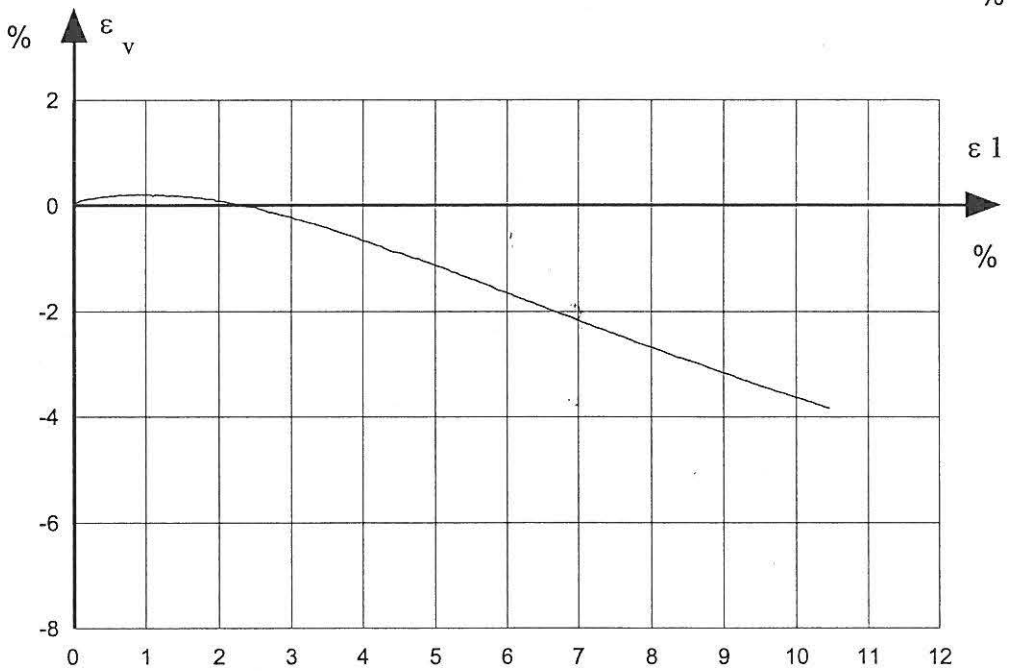


q'	p'	ε 1	ε ν
-0.58	308.93	0.00	0.00
10.46	313.61	0.01	0.02
108.63	347.08	0.07	0.07
200.31	379.65	0.16	0.12
279.61	403.58	0.28	0.14
435.34	455.99	0.53	0.19
580.83	504.24	0.82	0.21
656.76	528.29	1.04	0.22
762.06	563.65	1.47	0.19
825.10	587.41	1.82	0.12
870.97	602.45	2.18	0.05
903.58	612.32	2.54	-0.05
927.58	620.32	2.91	-0.19
946.24	625.79	3.29	-0.33
960.46	630.28	3.67	-0.49
973.28	635.55	4.05	-0.67
983.46	638.69	4.42	-0.87
999.60	644.57	5.18	-1.20
1006.93	648.02	5.98	-1.62
1004.97	646.87	6.71	-2.00
1000.78	645.47	7.47	-2.39
992.23	641.87	8.24	-2.79
978.23	636.70	9.02	-3.16
965.87	632.33	9.80	-3.53

Job:	Encl. No
Lund No 0	81
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.108



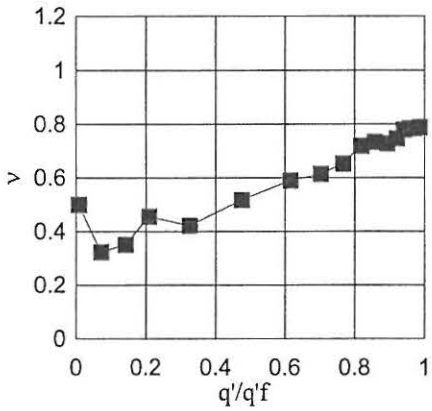


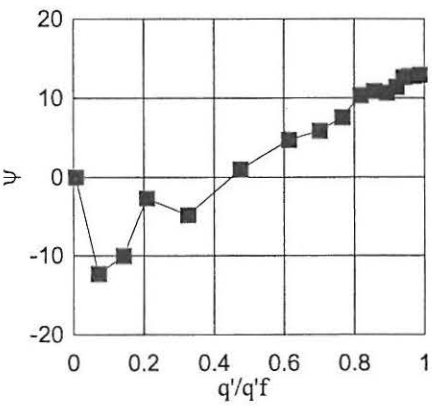
Job: Lund No 0	Encl. No 82
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.1	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.617	0.661
		Saturation	0.99	
k2000_892	11.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.052	%
free ends		ε ν	0.076	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	499.98	kPa	162.85	kPa
Mean normal stress	p'	325.10	kPa	211.47	kPa
Confining pressures	σ3	158.44	kPa	157.19	kPa
Vertical strain	ε 1	6.77	%	0.53	%
Volumetric strain	ε ν	-2.73	%	0.10	%

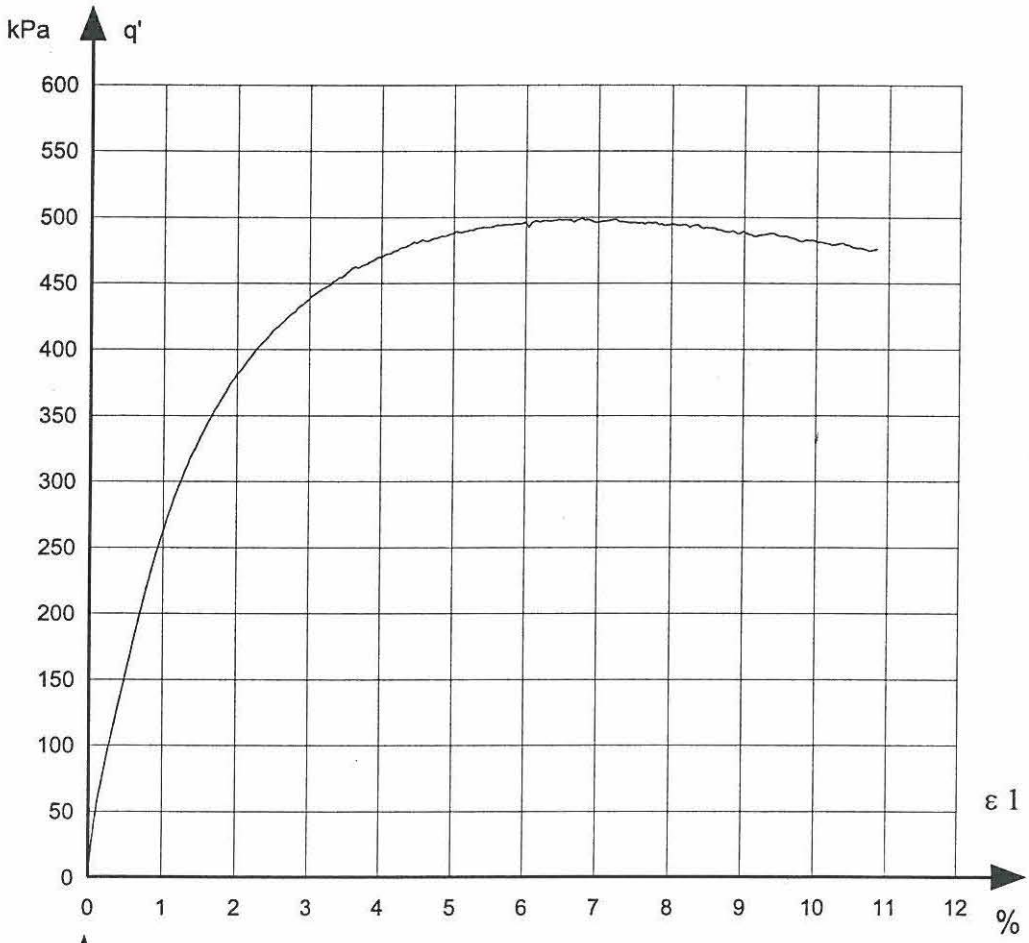


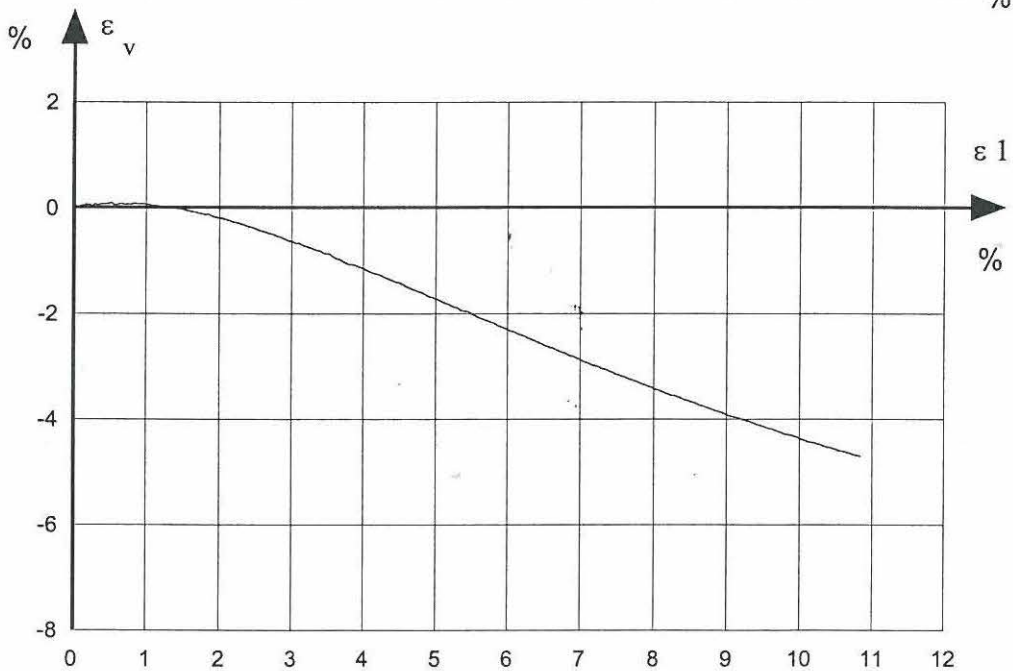


q'	p'	ε 1	ε ν
0.00	156.94	0.00	0.00
3.48	158.60	0.00	0.00
35.37	169.23	0.06	0.02
70.68	180.75	0.16	0.05
104.16	191.41	0.28	0.06
162.85	211.47	0.53	0.10
237.68	236.16	0.86	0.09
307.48	258.18	1.28	0.01
351.10	274.22	1.65	-0.07
383.39	284.73	2.03	-0.19
408.90	292.74	2.41	-0.35
428.45	299.75	2.79	-0.53
446.09	305.64	3.17	-0.70
460.12	310.56	3.56	-0.89
469.97	313.84	3.94	-1.11
478.01	316.52	4.33	-1.33
484.30	318.87	4.72	-1.54
492.77	321.69	5.49	-1.99
499.98	325.10	6.77	-2.73
497.17	322.16	7.04	-2.90
494.67	321.33	7.82	-3.31
492.21	320.51	8.59	-3.70
488.26	320.69	9.37	-4.07
480.32	317.04	10.16	-4.44

Job:	Encl. No
Lund No 0	83
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.147



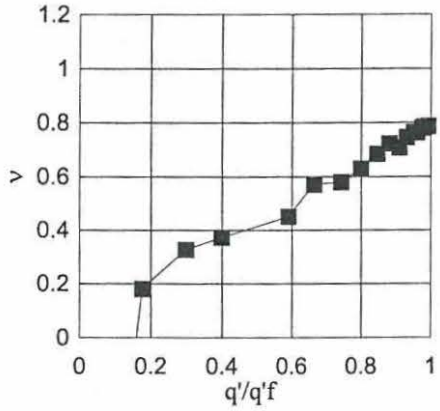


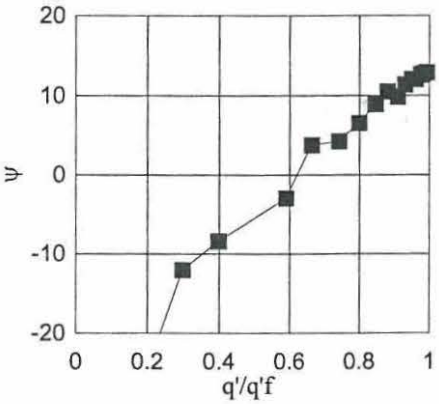
Job: Lund No 0	Encl. No 84
Exc: LBI, AMS	Check: FRJ

Description of soil Lund No 0			Before test	At failure
		Water content %	22.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.605	0.642
		Saturation	0.97	
k2000_892	19.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.040	%
free ends		ε ν	0.034	%
	2.Drained compression.			
	Deformation rate:		8.8	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	525.28	kPa	310.04	kPa
Mean normal stress	p'	332.03	kPa	259.78	kPa
Confining pressures	σ3	156.94	kPa	156.44	kPa
Vertical strain	ε 1	6.27	%	0.79	%
Volumetric strain	ε ν	-2.29	%	0.20	%

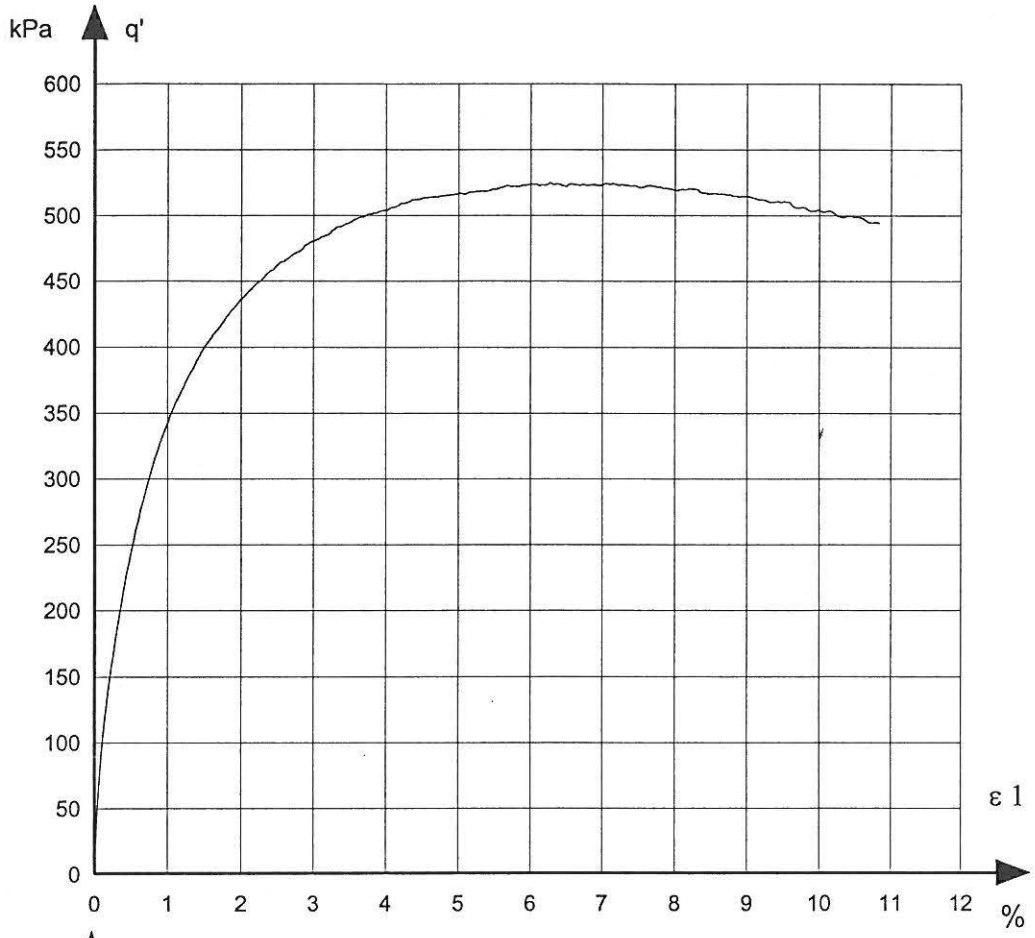


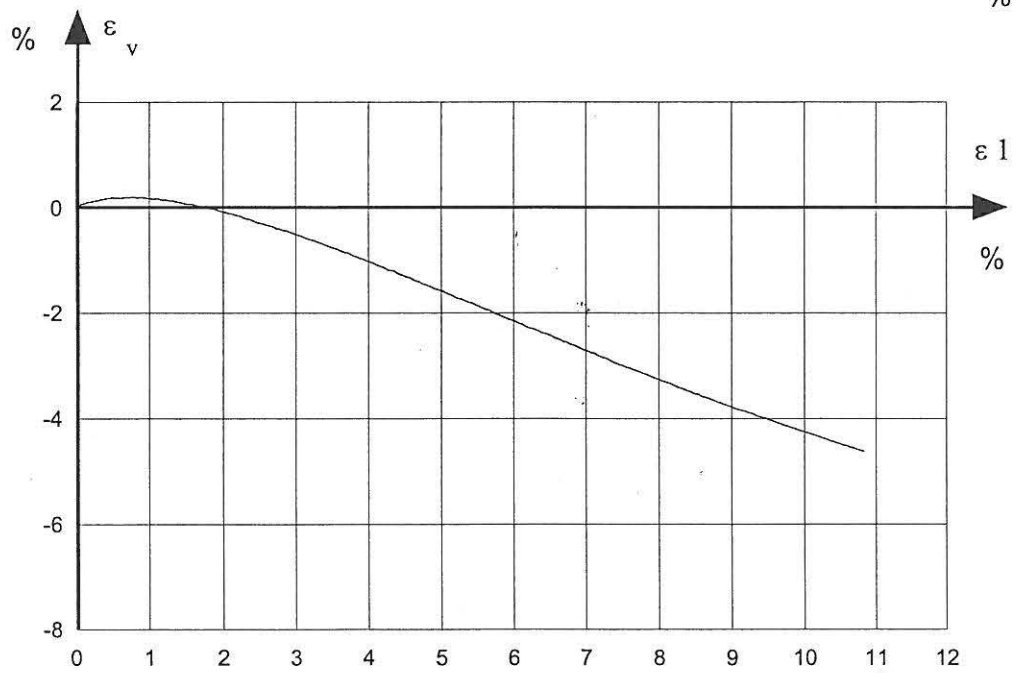


q'	p'	ε 1	ε ν
0.00	156.69	0.00	0.00
15.66	161.91	0.01	0.03
92.16	187.66	0.09	0.08
156.37	209.31	0.22	0.12
208.84	225.55	0.37	0.16
310.04	259.78	0.79	0.20
348.83	272.71	1.03	0.17
389.72	287.09	1.39	0.11
419.80	296.37	1.76	0.02
444.28	305.28	2.13	-0.12
462.70	312.17	2.50	-0.28
477.58	316.63	2.88	-0.44
488.77	319.86	3.26	-0.62
499.17	323.58	3.64	-0.82
504.47	324.85	4.02	-1.02
512.37	328.48	4.40	-1.23
515.23	327.68	4.78	-1.45
520.70	330.26	5.54	-1.89
525.28	332.03	6.27	-2.29
524.20	332.42	7.07	-2.75
520.91	330.82	7.84	-3.16
516.49	328.85	8.61	-3.58
510.74	327.43	9.39	-3.96
503.07	325.13	10.17	-4.32

Job:	Encl. No
Lund No 0	85
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.165



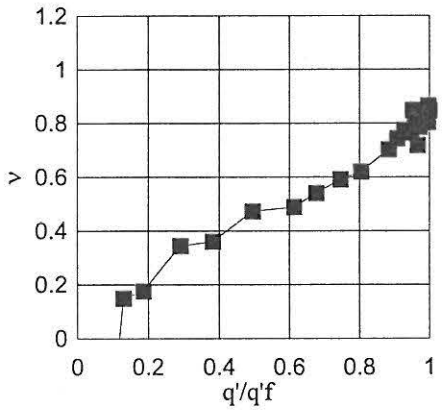


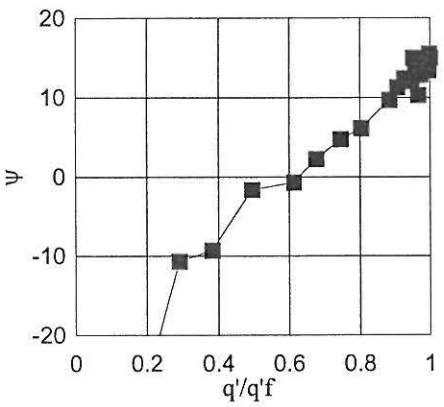
Job: Lund No 0	Encl. No 86
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.567	0.617
		Saturation	1.19	
k2000_892	14.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.036	%
free ends		ε ν	0.079	%
	2.Drained compression.			
	Deformation rate:		7.9	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	549.03	kPa	336.99	kPa
Mean normal stress	p'	341.20	kPa	269.77	kPa
Confining pressures	σ3	158.19	kPa	157.44	kPa
Vertical strain	ε 1	7.27	%	0.88	%
Volumetric strain	ε ν	-3.13	%	0.21	%

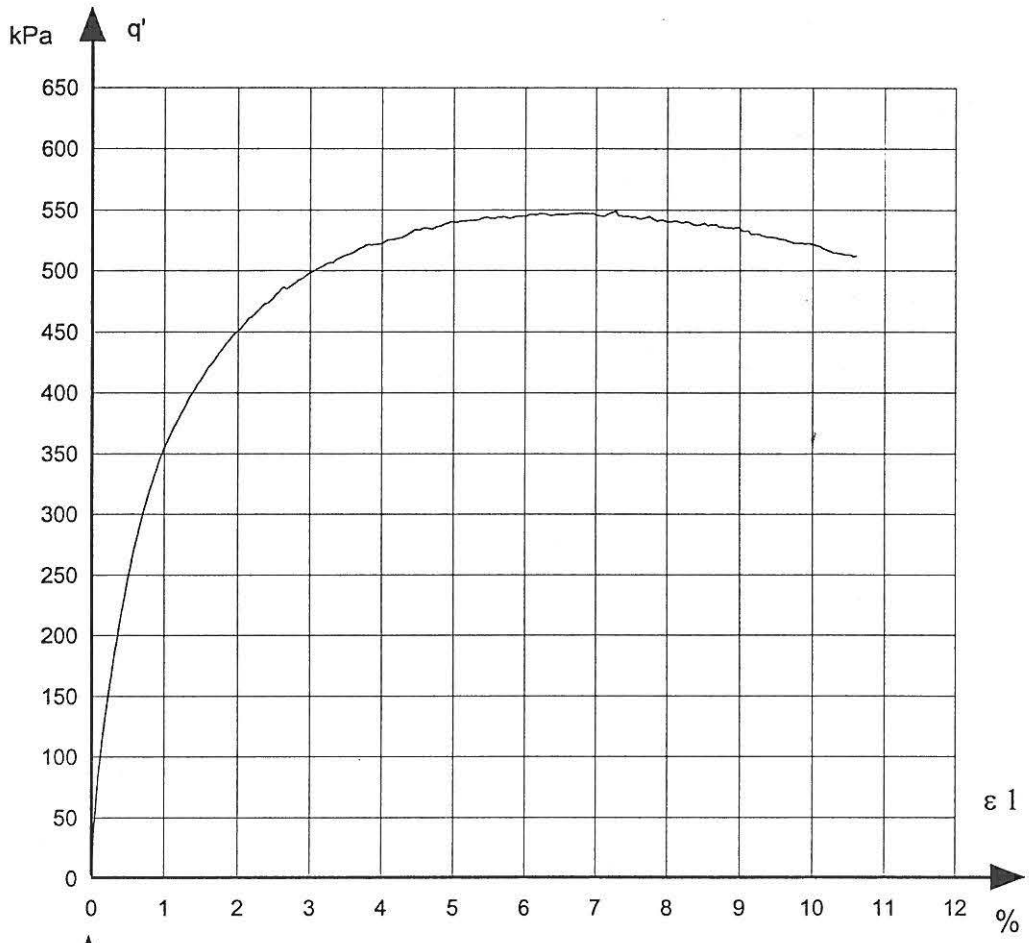


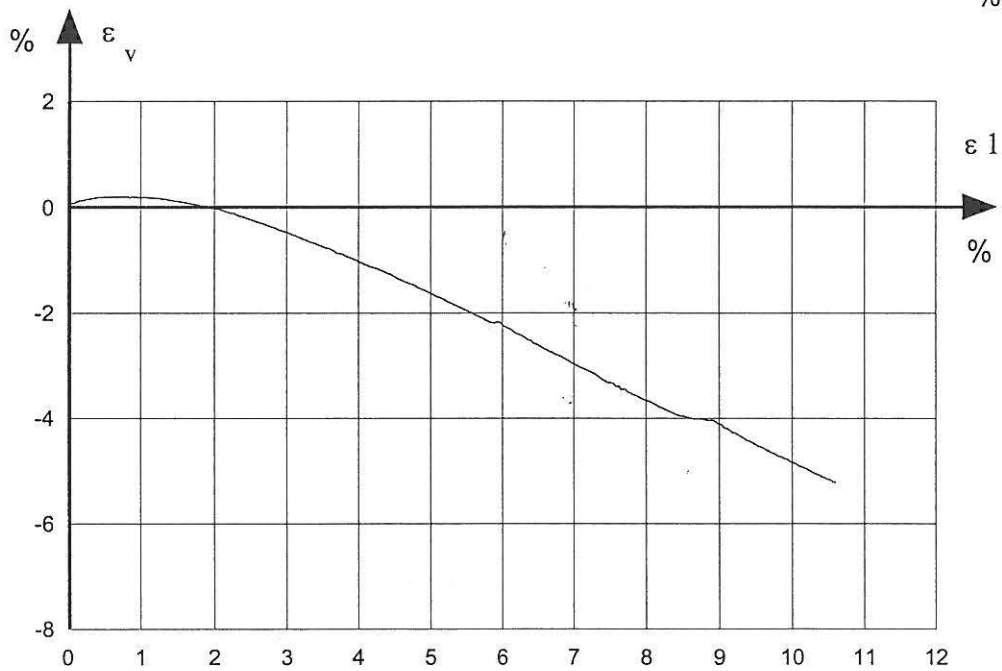


q'	p'	ε 1	ε ν
0.00	157.19	0.00	0.00
23.21	163.92	0.01	0.04
71.35	180.97	0.07	0.08
102.07	191.46	0.12	0.11
159.35	209.05	0.24	0.15
210.14	227.48	0.38	0.19
272.14	247.65	0.58	0.20
336.99	269.77	0.88	0.21
371.74	281.35	1.12	0.19
409.64	293.23	1.48	0.12
441.36	304.31	1.84	0.04
485.12	319.64	2.59	-0.26
498.01	322.44	2.97	-0.45
508.95	326.59	3.35	-0.66
519.77	330.69	3.73	-0.86
525.88	331.73	4.12	-1.08
533.57	335.29	4.50	-1.30
541.85	337.55	5.27	-1.79
546.19	339.00	6.04	-2.25
547.19	340.33	6.81	-2.81
549.03	341.20	7.27	-3.13
538.10	336.55	8.36	-3.89
530.24	333.43	9.14	-4.23
522.88	331.98	9.93	-4.78

Job:	Encl. No
Lund No 0	87
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.165



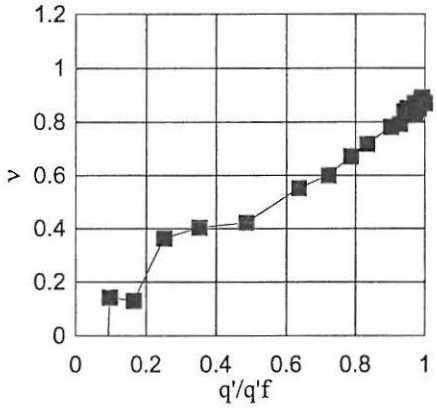


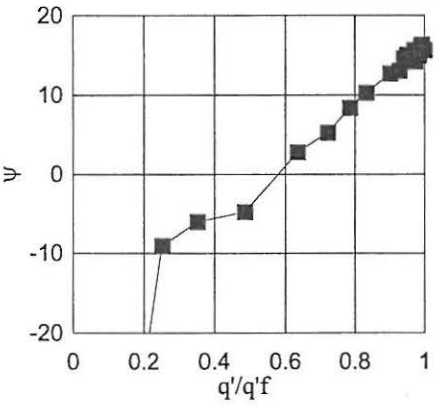
Job: Lund No 0	Encl. No 88
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	20.9	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.566	0.617
		Saturation	0.98	
k2000_892	20.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-160	kPa
CD - Triaxial test.		ε 1	0.031	%
free ends		ε ν	0.068	%
	2.Drained compression.			
	Deformation rate:		8.6	% ph

		Values at failure		Values for Δε ν = 0	
Deviator stress	q'	584.02	kPa	284.01	kPa
Mean normal stress	p'	353.11	kPa	251.36	kPa
Confining pressures	σ3	158.44	kPa	156.69	kPa
Vertical strain	ε 1	6.40	%	0.51	%
Volumetric strain	ε ν	-3.23	%	0.18	%

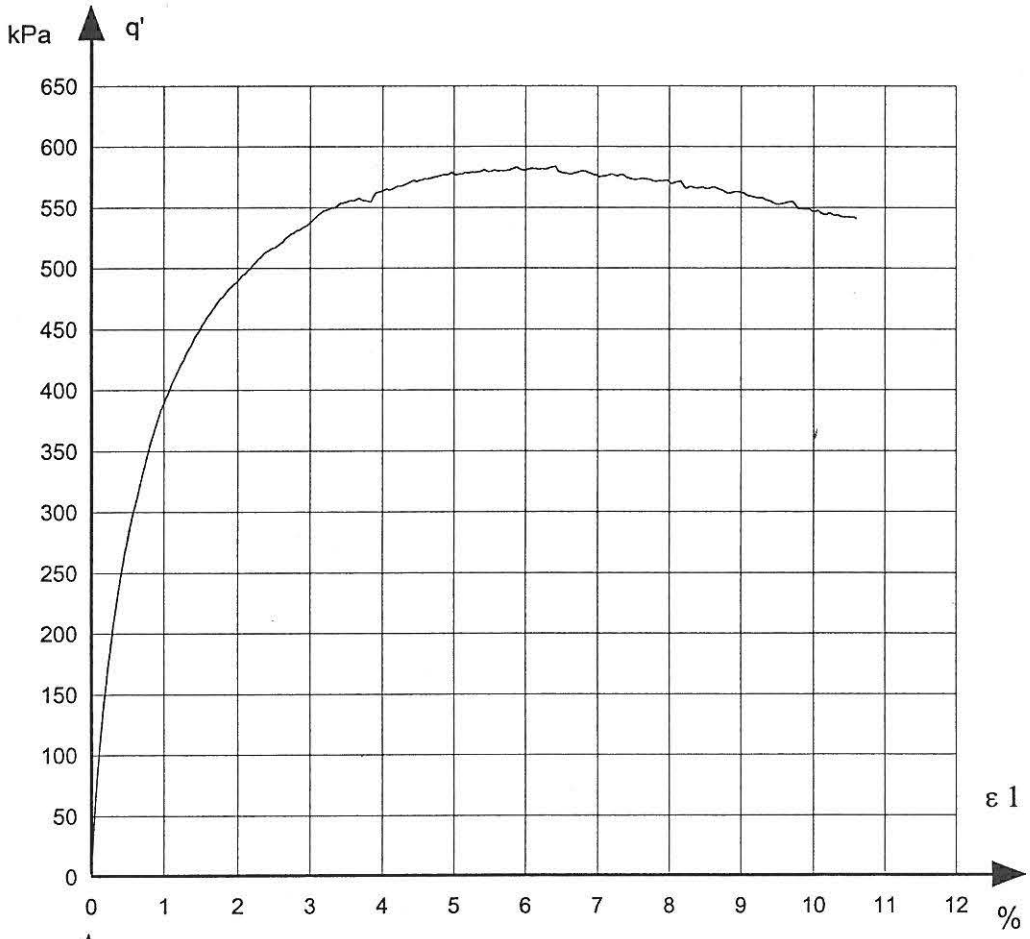




q'	p'	ε 1	ε ν
0.00	156.69	0.00	0.00
12.77	160.94	0.00	0.04
55.73	175.51	0.04	0.06
95.77	188.86	0.09	0.10
147.34	206.55	0.18	0.12
205.73	225.76	0.29	0.15
284.01	251.36	0.51	0.18
370.99	280.85	0.88	0.14
421.67	297.74	1.22	0.08
459.61	310.39	1.58	-0.05
486.71	318.92	1.94	-0.20
526.44	332.67	2.69	-0.62
541.68	338.00	3.07	-0.84
553.73	342.26	3.44	-1.09
554.48	338.77	3.83	-1.36
567.93	345.75	4.20	-1.61
574.00	349.02	4.58	-1.87
579.64	350.40	5.34	-2.45
584.02	353.11	6.40	-3.23
579.13	349.73	6.86	-3.59
577.45	349.92	7.32	-3.94
566.48	345.76	8.39	-4.73
558.83	343.21	9.16	-5.27
549.32	341.04	9.94	-5.79

Job:	Encl. No
Lund No 0	89
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 0.092

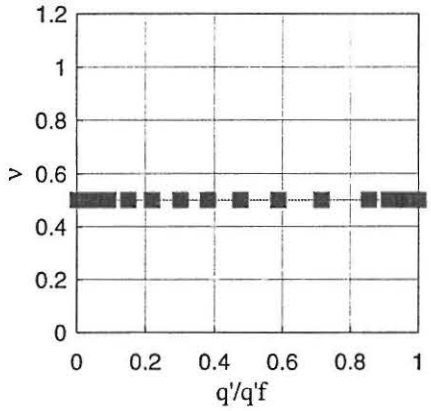


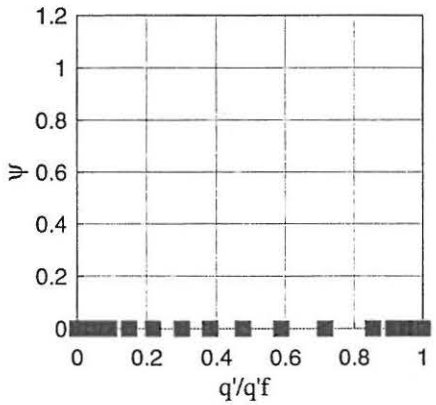
Job: Lund No 0	Encl. No 90
Exc:	Check:
LBI, AMS	FRJ

Description of soil Lund No 0			Before test	At failure
		Water content %	23	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.555	0.555
		Saturation	1.01	
k2000_891	25.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	5 kPa
CU - Triaxial test.		ε 1	0.000 %
free ends		ε ν	0.000 %
	2.Undrained compression.		
	Deformation rate:		9.1 % ph

		Maximum values		Minimum values for σ	
Deviator stress	q'	1 816.04	kPa	10.44	kPa
Mean normal stress	p'	1 296.90	kPa	8.11	kPa
Confining pressures	σ3	691.55	kPa	4.63	kPa
Vertical strain	ε 1	4.91	%	0.08	%
Volumetric strain	ε ν	0.00	%	0.00	%



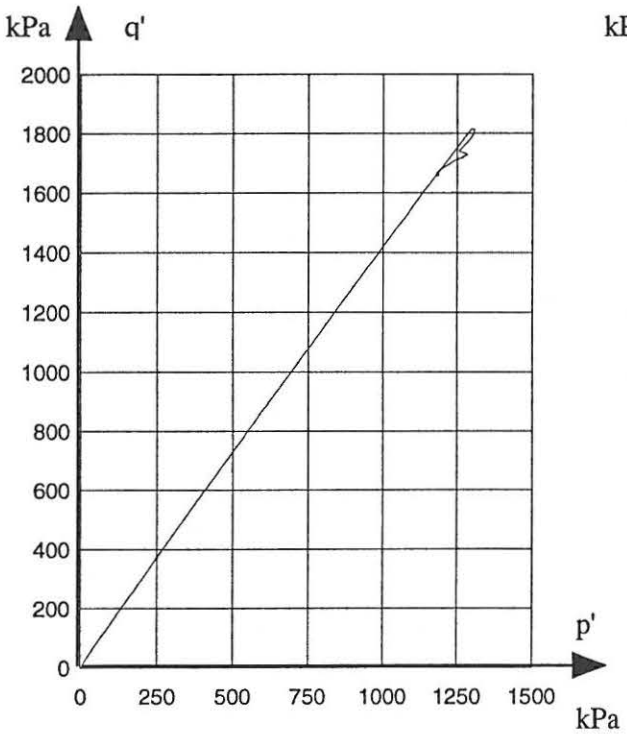


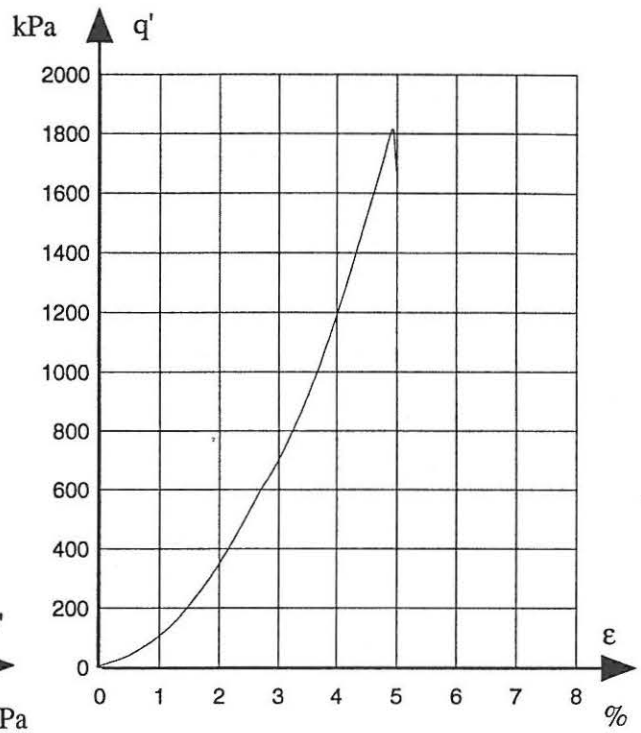
q'	p'	ε 1	ε ν
0.00	5.63	0.00	0.00
5.81	7.19	0.02	0.00
10.44	8.11	0.08	0.00
15.65	10.72	0.17	0.00
41.60	27.00	0.51	0.00
89.78	58.07	0.89	0.00
165.62	109.00	1.31	0.00
271.62	181.24	1.73	0.00
398.32	267.51	2.15	0.00
547.16	370.91	2.56	0.00
692.43	473.88	2.98	0.00
863.98	593.74	3.39	0.00
1066.61	740.72	3.78	0.00
1297.18	910.15	4.17	0.00
1552.08	1098.57	4.54	0.00
1816.04	1296.90	4.91	0.00
1751.64	1265.68	4.96	0.00
1719.46	1270.46	4.97	0.00
1710.54	1245.97	4.98	0.00
1700.52	1228.12	4.98	0.00
1689.41	1211.78	4.99	0.00
1678.84	1195.25	4.99	0.00
1667.73	1182.04	5.00	0.00
1658.31	1185.02	5.00	0.00

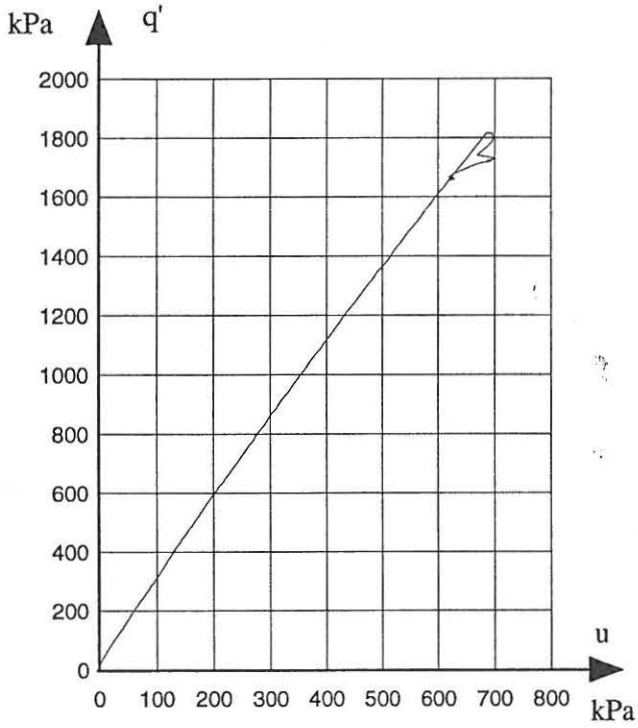
Job:	Encl. No
Lund No 0	1
Exc:	Check:
LBI	FRJ

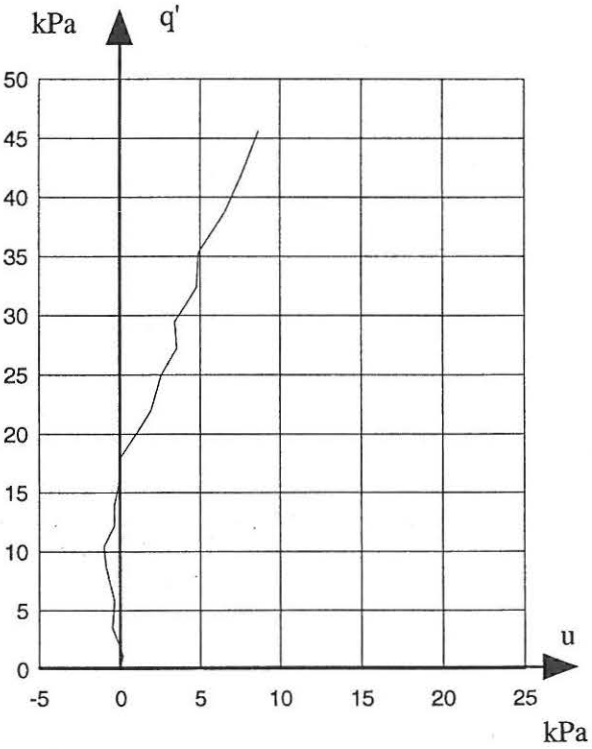
Remark:
Preparation [%] Δ ε1 = 0.000
No isotropic consolidation.

CUu=o TRIAXIAL TEST NO 8901.17







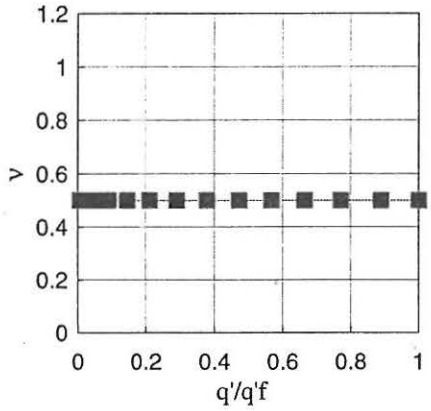


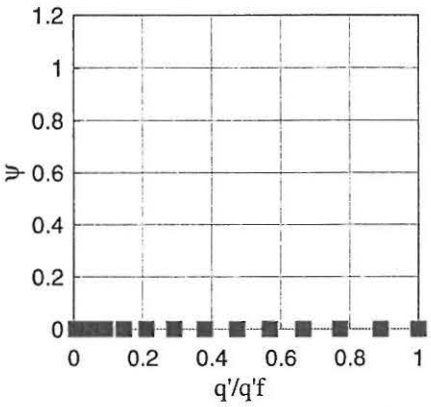
Job: Lund No 0	Encl. No 2
Exc: LBI	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	22.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.551	0.551
		Saturation	1.07	
kal9	26.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-5	kPa
CU - Triaxial test.		ε 1	-0.071	%
free ends		ε ν	-0.461	%
	2.Undrained compression.			
	Deformation rate:		7.5	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	1 286.04	kPa	8.71	kPa
Mean normal stress	p'	907.94	kPa	6.16	kPa
Confining pressures	σ3	479.26	kPa	3.25	kPa
Vertical strain	ε 1	4.32	%	0.09	%
Volumetric strain	ε ν	0.00	%	0.00	%

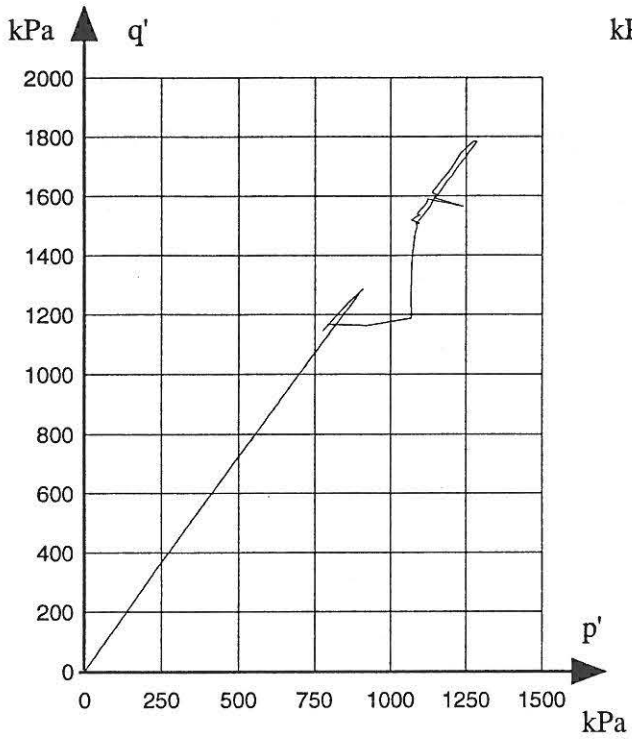


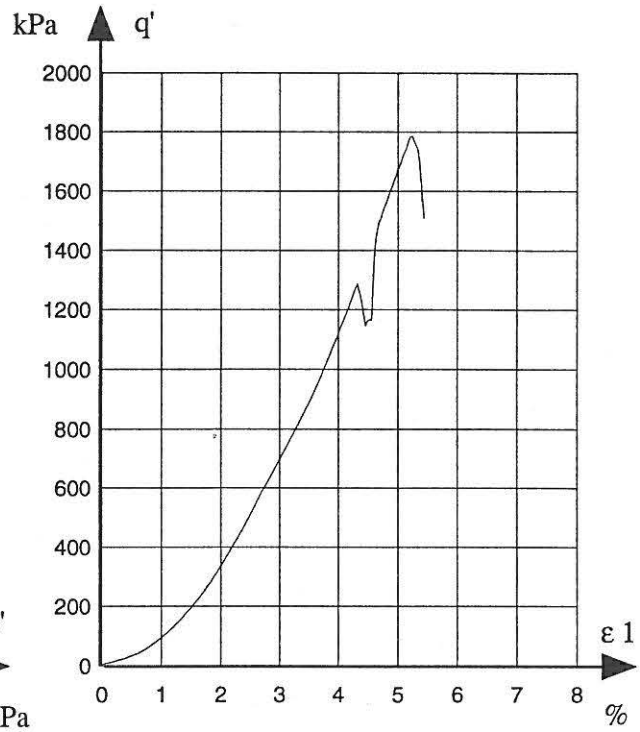


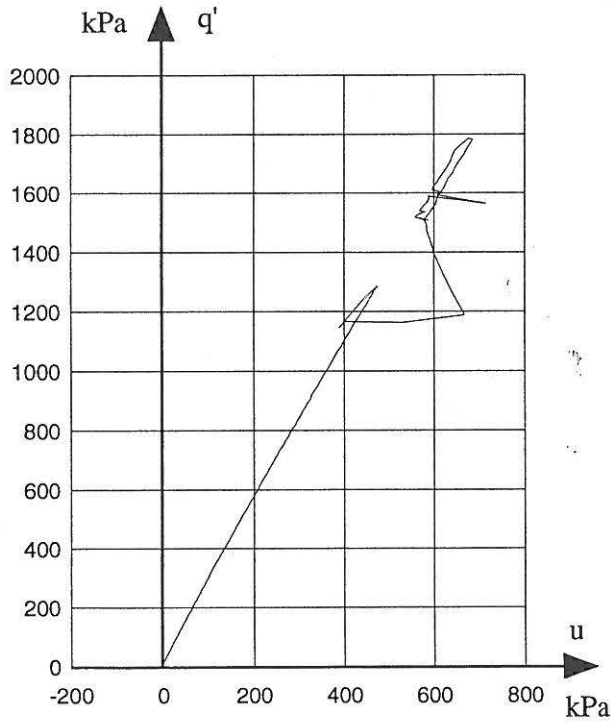
q'	p'	ε 1	ε ν
-0.58	4.56	0.00	0.00
8.71	6.16	0.09	0.00
12.18	8.94	0.17	0.00
30.08	20.91	0.46	0.00
62.84	42.71	0.79	0.00
116.64	78.29	1.13	0.00
186.68	125.78	1.46	0.00
272.23	184.94	1.79	0.00
374.29	253.87	2.12	0.00
487.56	332.78	2.44	0.00
608.00	417.71	2.76	0.00
728.74	502.50	3.09	0.00
854.29	593.14	3.41	0.00
991.89	692.17	3.73	0.00
1143.69	801.94	4.04	0.00
1286.04	907.94	4.32	0.00
1472.18	1079.20	4.66	0.00
1649.72	1186.29	4.96	0.00
1618.04	1140.70	5.39	0.00
1573.79	1116.32	5.41	0.00
1549.98	1095.37	5.42	0.00
1532.31	1089.36	5.42	0.00
1523.44	1074.89	5.43	0.00
1508.00	1092.14	5.43	0.00

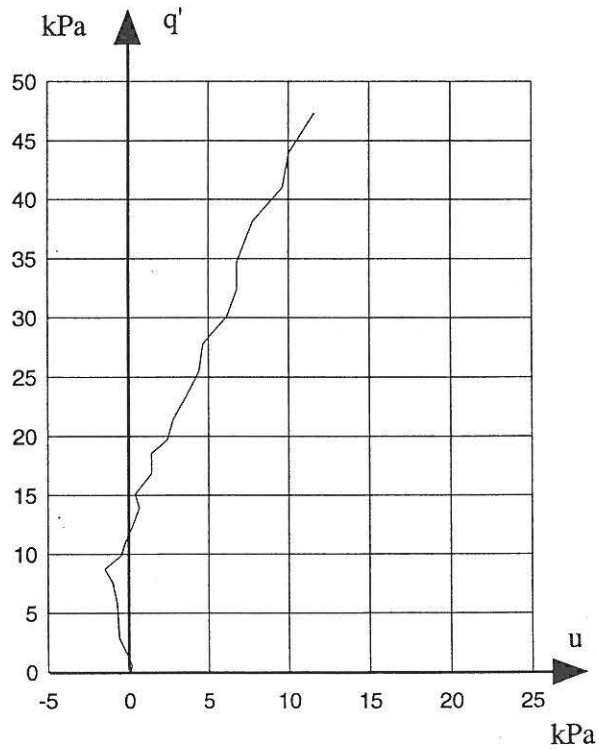
Job:	Encl. No
Lund No 0	3
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.084







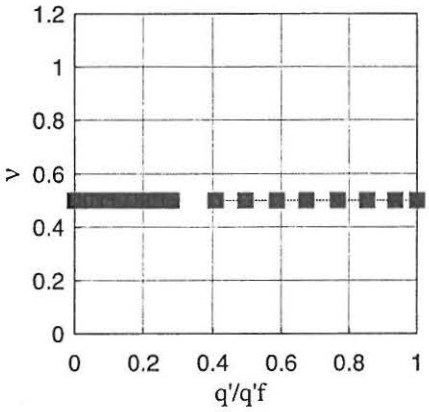


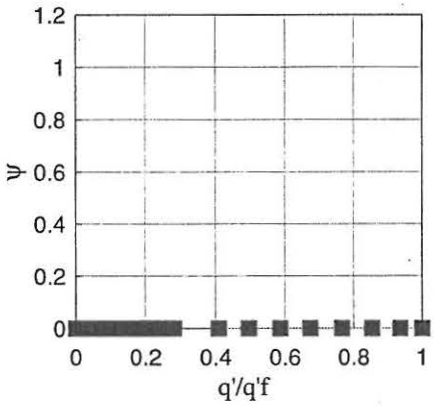
Job: Lund No 0	Encl. No 4
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	25.4	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.611	0.611
		Saturation	1.10	
k2000_891	26.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-0 kPa
CU - Triaxial test.		ε 1	-0.082 %
free ends		ε ν	-0.355 %
	2.Undrained compression.		
	Deformation rate:		5.5 % ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	1 315.19	kPa	1.74	kPa
Mean normal stress	p'	941.17	kPa	-0.54	kPa
Confining pressures	σ3	502.78	kPa	-1.13	kPa
Vertical strain	ε 1	6.76	%	0.01	%
Volumetric strain	ε ν	0.00	%	0.00	%

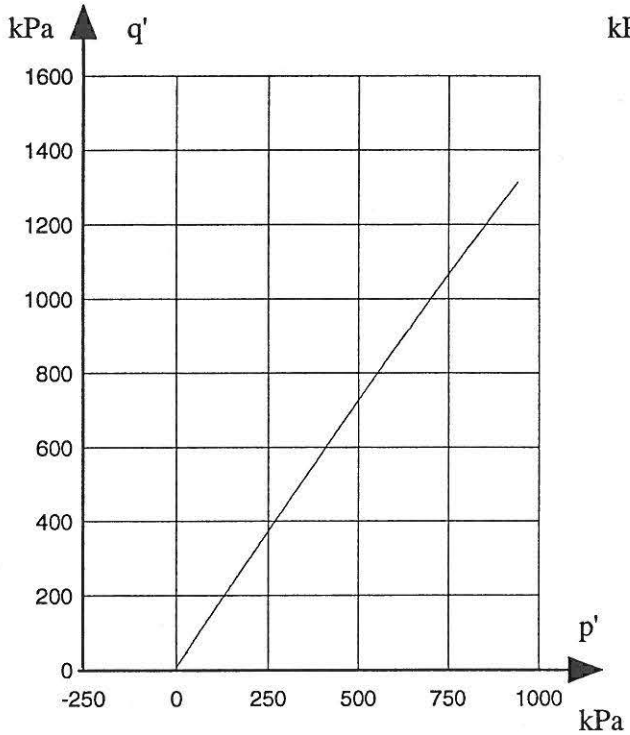


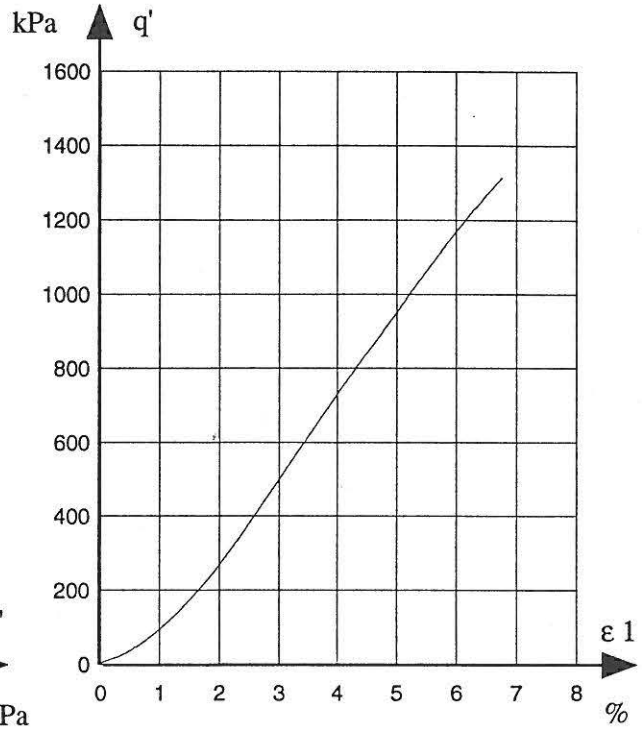


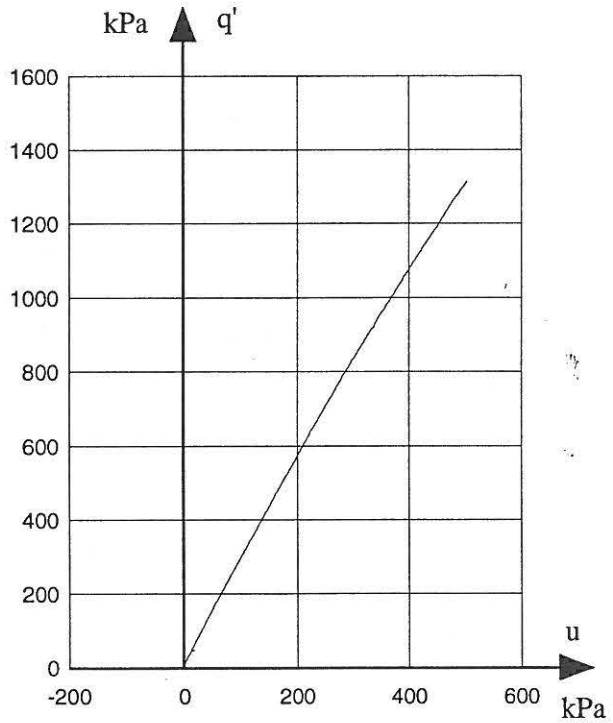
q'	p'	ε 1	ε ν
-0.58	-0.32	0.00	0.00
1.74	-0.54	0.01	0.00
3.49	0.29	0.02	0.00
8.71	2.65	0.09	0.00
17.39	7.17	0.24	0.00
28.94	15.53	0.42	0.00
46.21	26.41	0.61	0.00
70.33	41.71	0.81	0.00
99.50	61.81	1.04	0.00
134.84	85.60	1.27	0.00
174.02	111.42	1.51	0.00
217.57	142.08	1.74	0.00
264.33	174.43	1.98	0.00
315.40	209.47	2.22	0.00
369.64	247.94	2.45	0.00
369.64	247.94	2.45	0.00
536.92	365.25	3.16	0.00
650.69	445.70	3.65	0.00
770.73	531.88	4.18	0.00
884.96	615.37	4.71	0.00
1007.28	707.56	5.24	0.00
1121.56	793.06	5.77	0.00
1230.12	875.29	6.31	0.00
1315.19	941.17	6.76	0.00

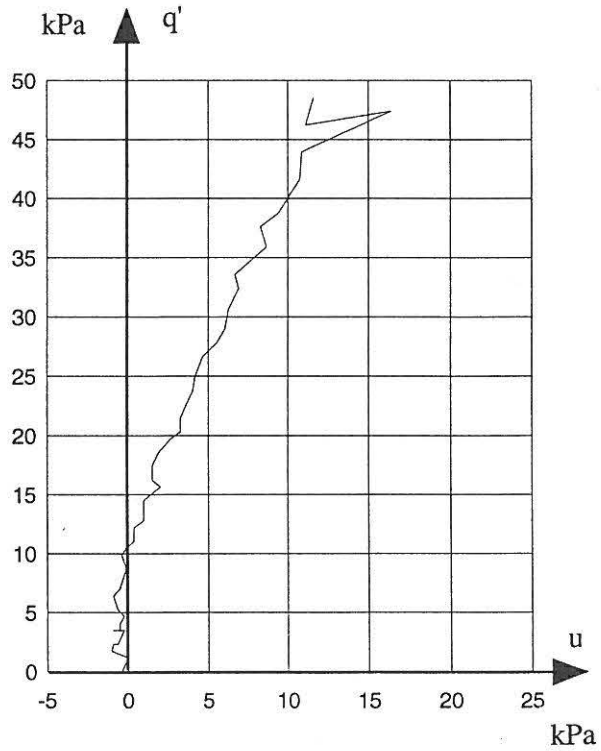
Job:	Encl. No
Lund No 0	5
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.058







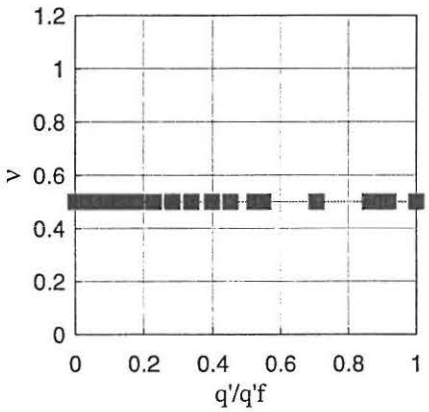


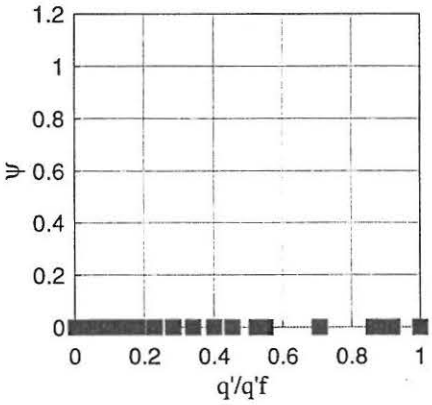
Job: Lund No 0	Encl. No 6
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.7	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.617	0.617
		Saturation	1.06	
k2000_891	28.09.89	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-5 kPa
CU - Triaxial test.		ε 1	-0.104 %
free ends		ε ν	-0.374 %
	2.Undrained compression.		
	Deformation rate:		5.5 % ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	1 628.69	kPa	8.13	kPa
Mean normal stress	p'	1 256.09	kPa	6.96	kPa
Confining pressures	σ3	713.20	kPa	4.25	kPa
Vertical strain	ε 1	6.43	%	0.09	%
Volumetric strain	ε ν	0.00	%	0.00	%

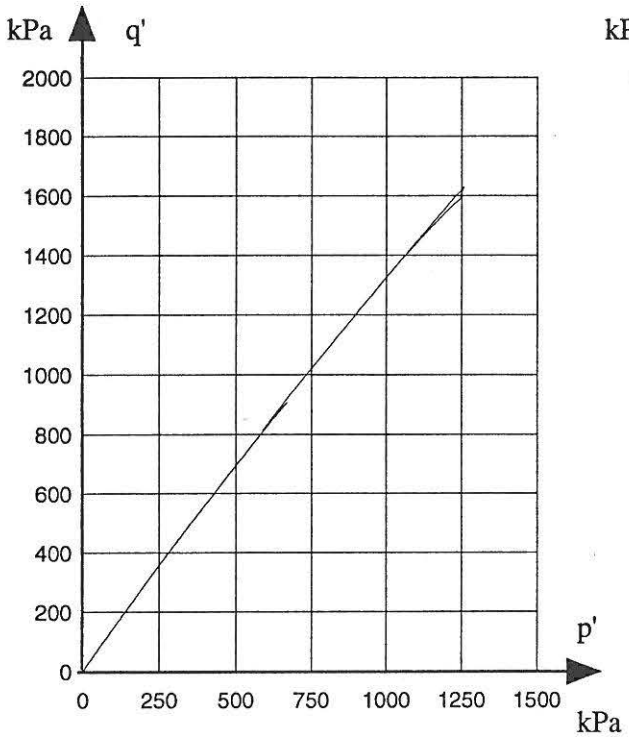


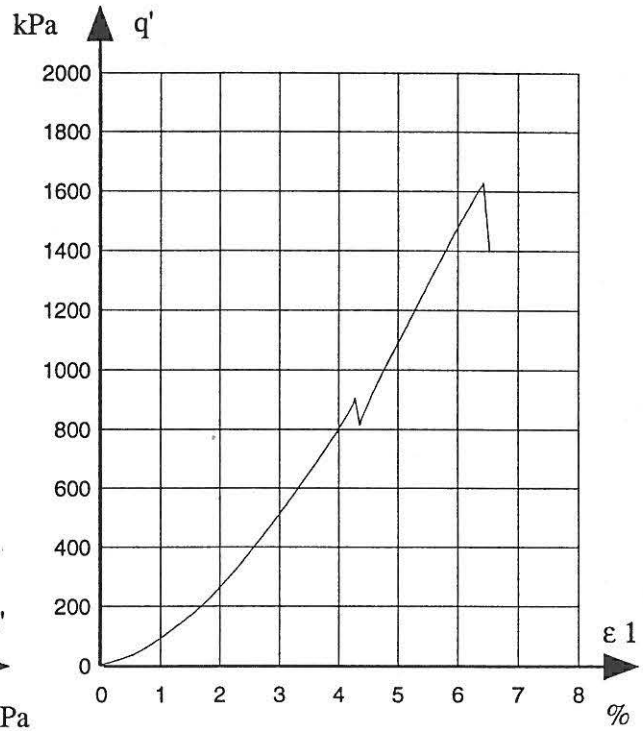


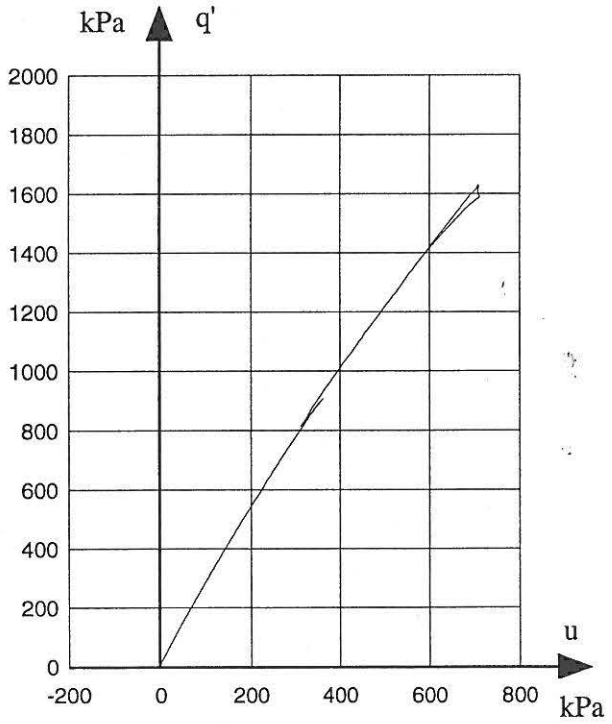
q'	p'	ε 1	ε ν
-0.58	4.56	0.00	0.00
2.91	5.35	0.01	0.00
4.07	5.73	0.03	0.00
8.13	6.96	0.09	0.00
16.81	12.74	0.26	0.00
36.43	25.28	0.53	0.00
66.89	46.44	0.81	0.00
109.22	74.69	1.11	0.00
159.84	109.33	1.44	0.00
220.37	152.15	1.79	0.00
293.00	203.37	2.13	0.00
373.62	261.65	2.47	0.00
460.46	324.12	2.81	0.00
551.76	391.84	3.15	0.00
649.16	464.71	3.48	0.00
736.05	531.46	3.79	0.00
850.82	619.63	4.15	0.00
893.69	647.68	4.51	0.00
1151.75	855.92	5.16	0.00
1405.09	1066.22	5.81	0.00
1628.69	1256.09	6.43	0.00
1495.08	1150.01	6.48	0.00
1448.55	1106.73	6.50	0.00
1417.92	1078.88	6.51	0.00

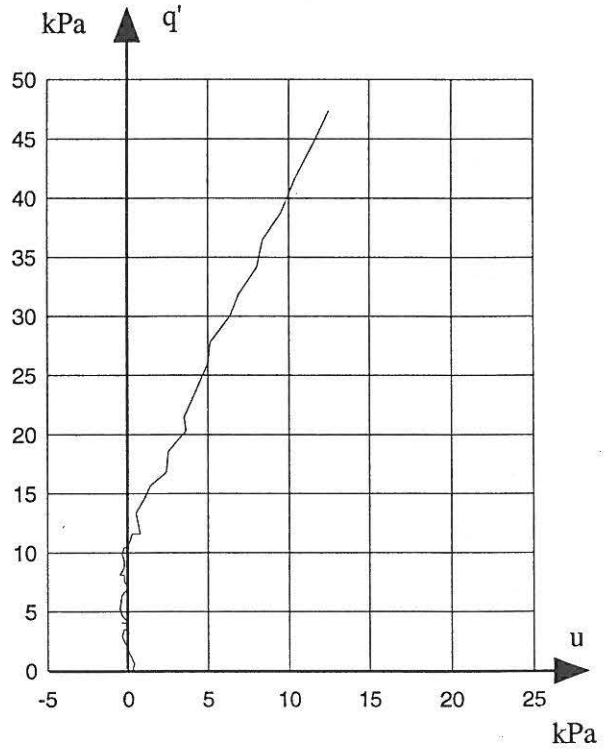
Job:	Encl. No
Lund No 0	7
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.044







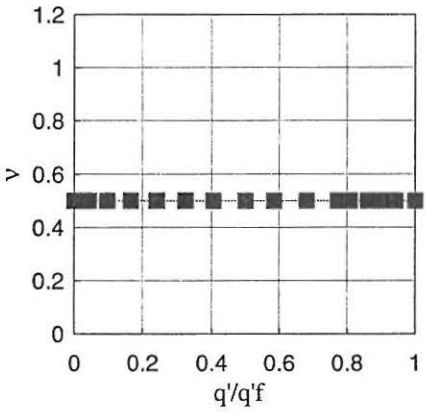


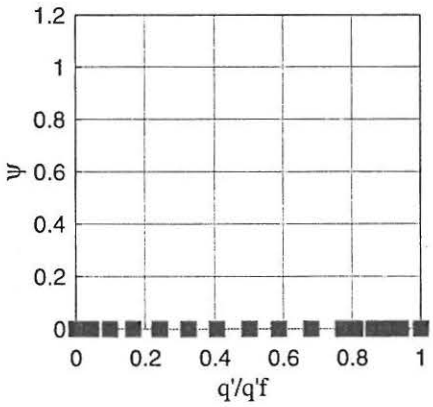
Job: Lund No 0	Encl. No 8
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.613	0.613
		Saturation	1.01	
kal90_01	11.12.90	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	40-20	kPa
CU - Triaxial test.		ε 1	-0.087	%
free ends		ε v	0.000	%
	2.Undrained compression.			
	Deformation rate:		3.1	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 311.31	kPa	25.31	kPa
Mean normal stress	p'	1 767.34	kPa	22.94	kPa
Confining pressures	σ3	996.90	kPa	14.50	kPa
Vertical strain	ε 1	6.99	%	0.12	%
Volumetric strain	ε v	0.00	%	0.00	%

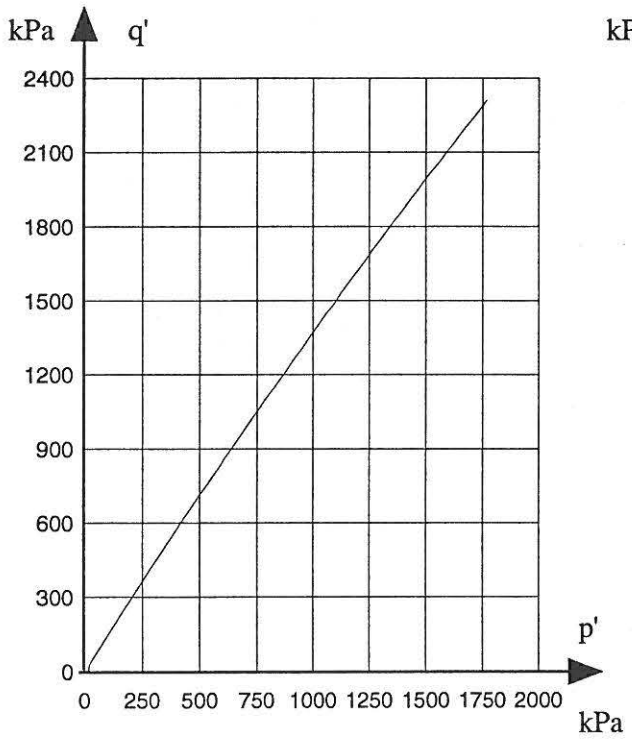


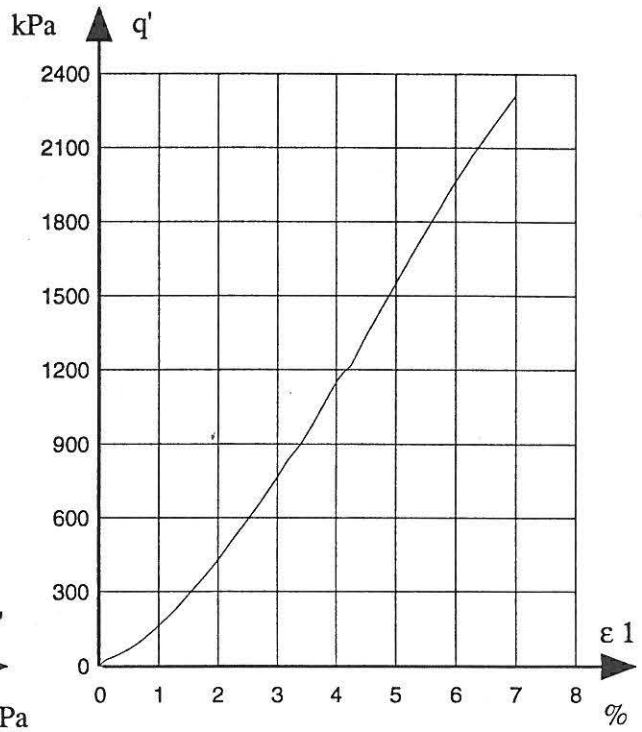


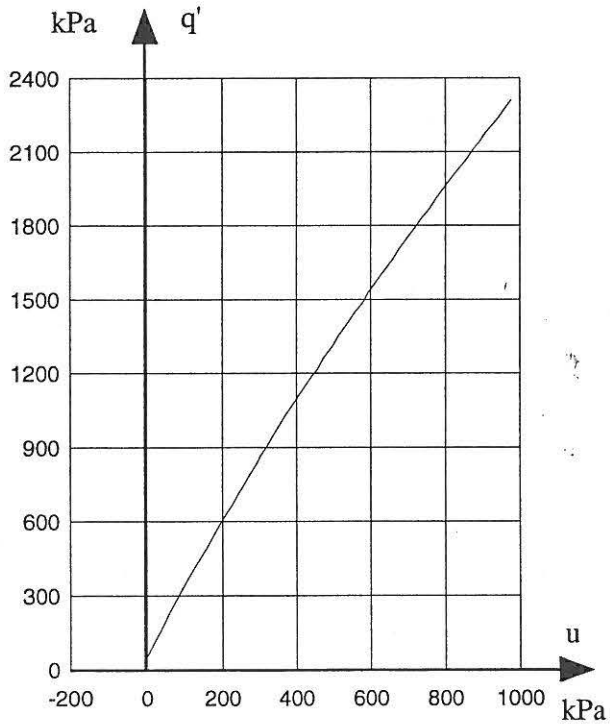
q'	p'	ε 1	ε v
0.00	20.00	0.00	0.00
0.00	20.20	0.00	0.00
3.38	21.03	0.01	0.00
9.12	21.04	0.03	0.00
15.20	21.27	0.05	0.00
21.94	22.11	0.09	0.00
25.31	22.94	0.12	0.00
30.02	24.91	0.16	0.00
37.08	28.86	0.24	0.00
100.98	71.26	0.70	0.00
225.50	153.47	1.27	0.00
382.72	262.37	1.84	0.00
558.97	388.02	2.40	0.00
749.21	527.14	2.96	0.00
937.75	665.68	3.50	0.00
1155.21	832.17	4.01	0.00
1352.69	985.10	4.54	0.00
1573.21	1159.60	5.05	0.00
1786.55	1332.02	5.56	0.00
1867.39	1399.36	5.77	0.00
1990.46	1497.39	6.07	0.00
2066.87	1563.76	6.28	0.00
2176.20	1652.90	6.59	0.00
2311.31	1767.34	6.99	0.00

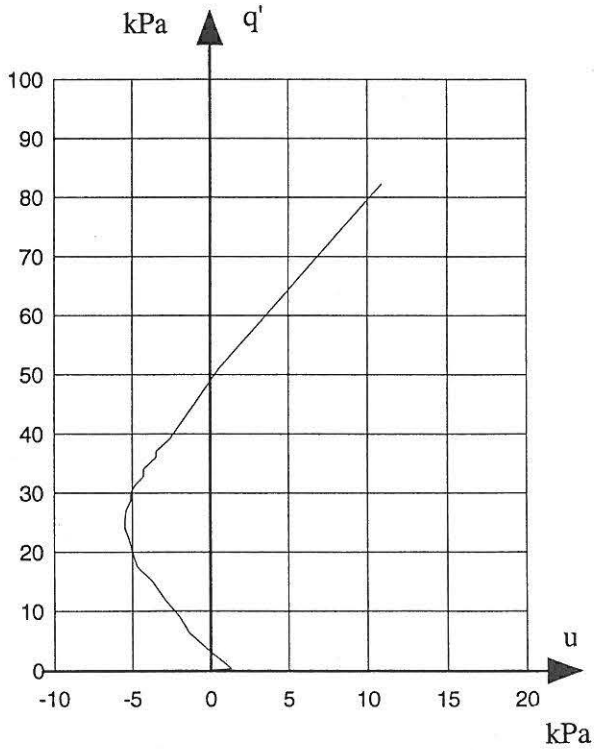
Job:	Encl. No
Lund No 0	9
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.110
Volumetric strain not measured during isotropic consolidation.







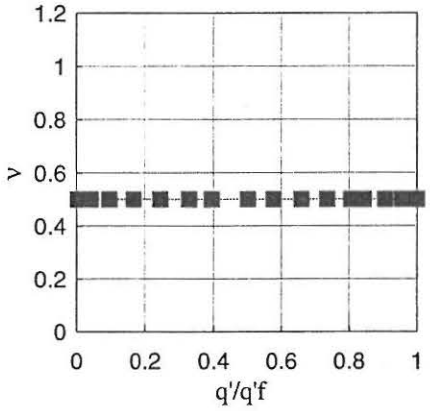


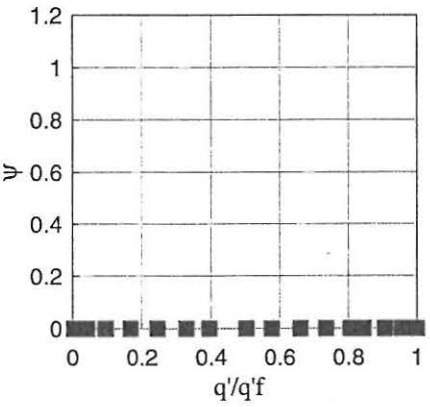
Job: Lund No 0	Encl. No 10
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	24.6	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.610	0.610
		Saturation	1.07	
kal90_01	06.12.90	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	80-20	kPa
CU - Triaxial test.		ε 1	-0.064	%
free ends		ε ν	-0.173	%
	2.Undrained compression.			
	Deformation rate:		3.4	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 244.34	kPa	23.27	kPa
Mean normal stress	p'	1 722.01	kPa	23.26	kPa
Confining pressures	σ3	973.90	kPa	15.50	kPa
Vertical strain	ε 1	7.29	%	0.10	%
Volumetric strain	ε ν	0.00	%	0.00	%



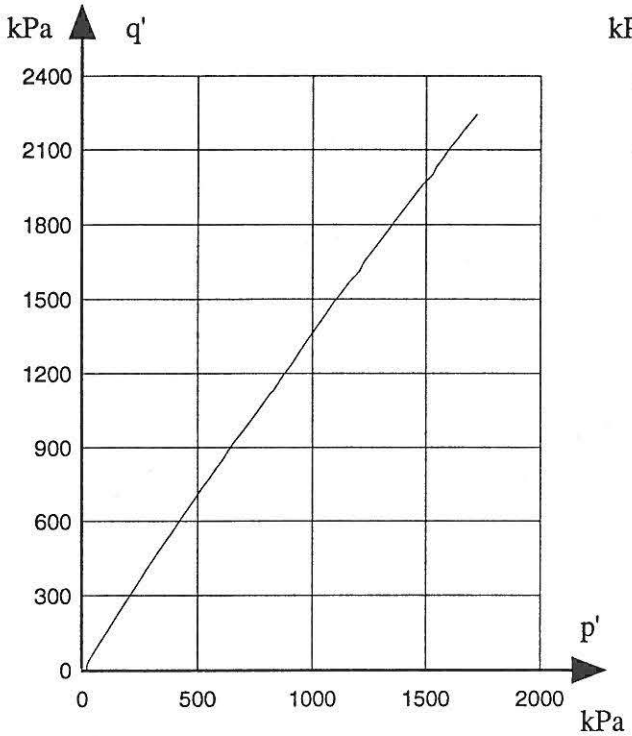


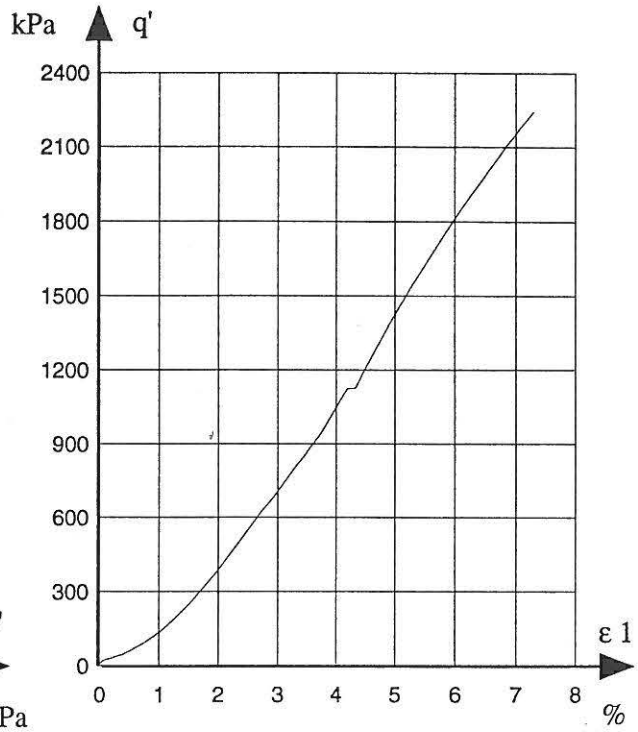
q'	p'	ε 1	ε ν
0.34	21.61	0.00	0.00
0.34	21.61	0.00	0.00
10.46	21.19	0.02	0.00
16.54	21.71	0.05	0.00
20.58	22.46	0.07	0.00
23.27	23.26	0.10	0.00
26.97	24.79	0.15	0.00
29.99	26.40	0.19	0.00
36.37	30.22	0.27	0.00
93.16	65.75	0.75	0.00
212.82	145.74	1.36	0.00
374.74	258.31	1.96	0.00
552.05	386.32	2.51	0.00
738.49	521.46	3.10	0.00
886.09	629.56	3.56	0.00
1123.94	817.65	4.19	0.00
1292.42	946.01	4.69	0.00
1480.14	1088.58	5.14	0.00
1650.35	1228.22	5.57	0.00
1808.45	1358.72	5.99	0.00
1890.61	1425.30	6.22	0.00
2031.42	1544.04	6.63	0.00
2142.59	1635.20	6.96	0.00
2244.34	1722.01	7.29	0.00

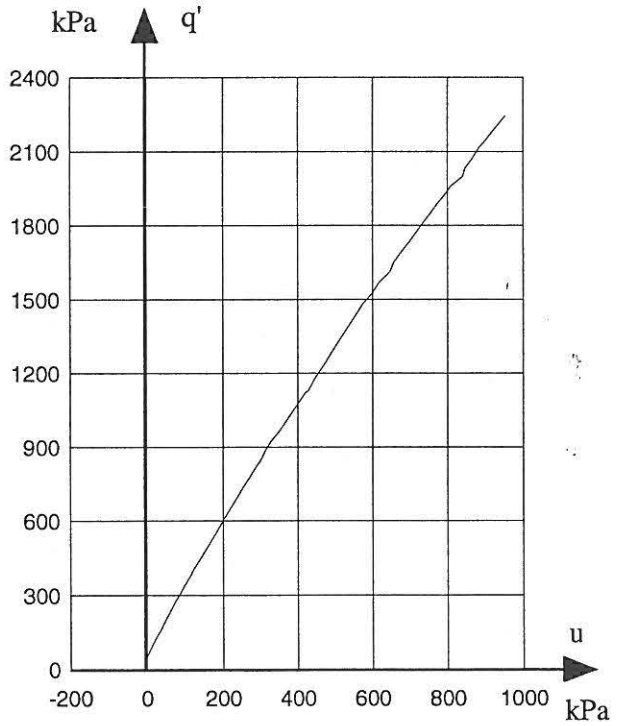
Job:	Encl. No
Lund No 0	11
Exc:	Check:
LBI, AMS	FRJ

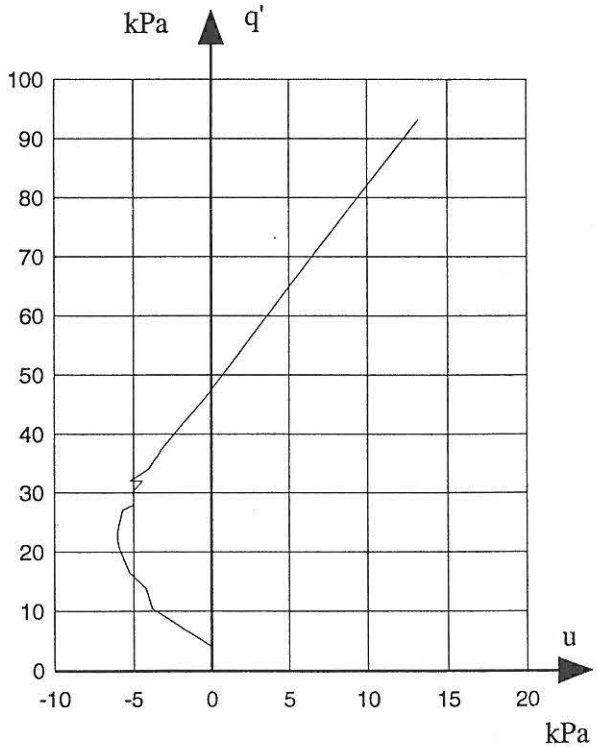
Remark:
Preparation [%] Δ ε1 = -0.128

CUu=o TRIAXIAL TEST NO 8901.P02







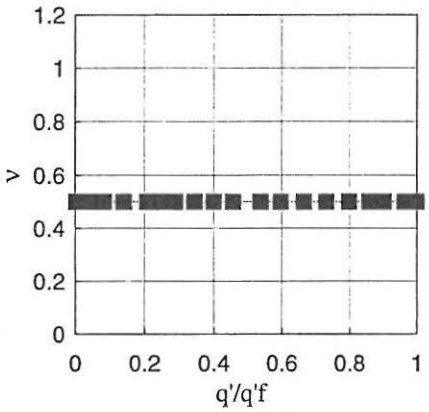


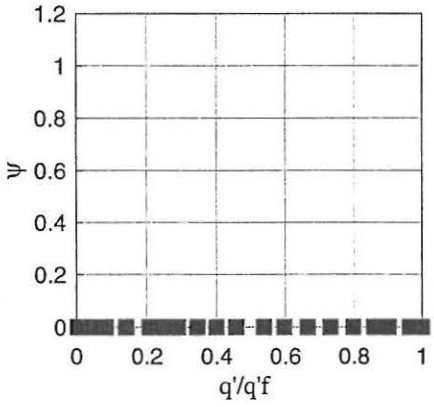
Job: Lund No 0	Encl. No 12
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.3	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.611	0.611
		Saturation	1.01	
kal90_01	06.12.90	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	80-500	kPa
CU - Triaxial test.		ε 1	0.225	%
free ends		ε v	0.671	%
	2.Undrained compression.			
	Deformation rate:		3.4	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 051.65	kPa	427.08	kPa
Mean normal stress	p'	1 575.18	kPa	381.36	kPa
Confining pressures	σ3	891.30	kPa	239.00	kPa
Vertical strain	ε 1	5.59	%	0.98	%
Volumetric strain	ε v	0.00	%	0.00	%

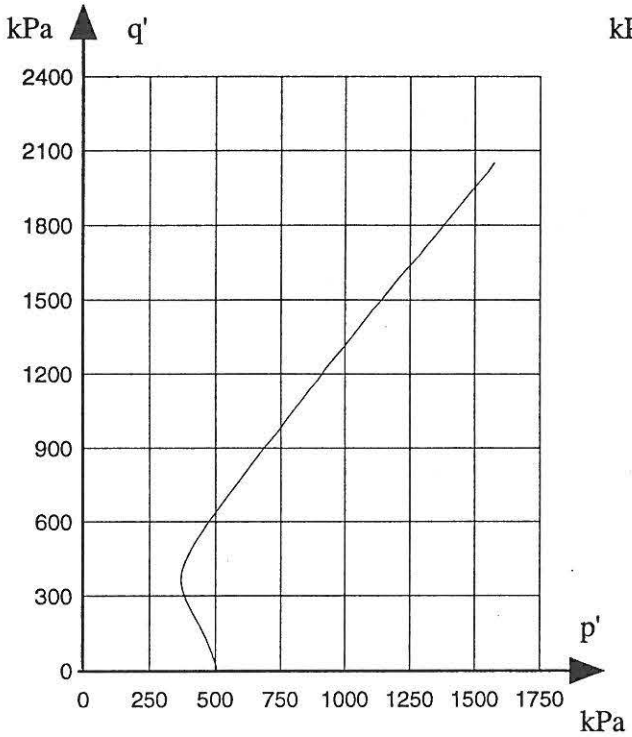


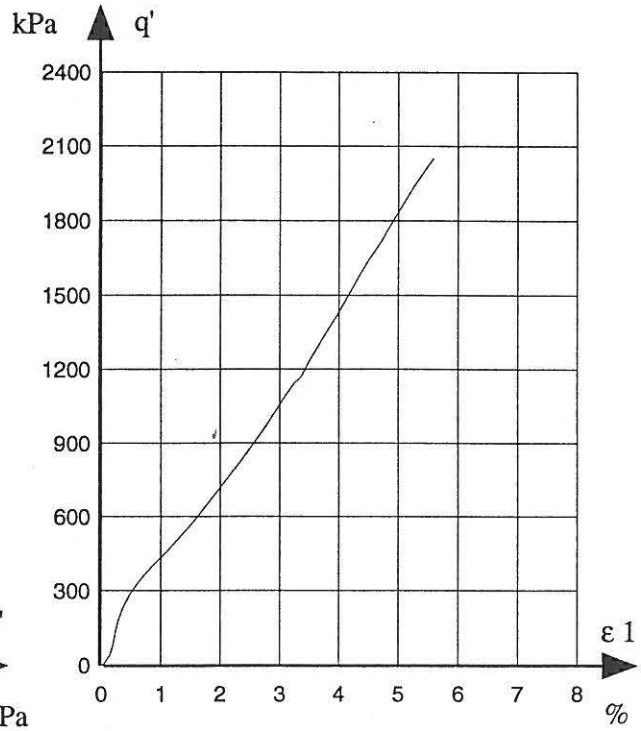


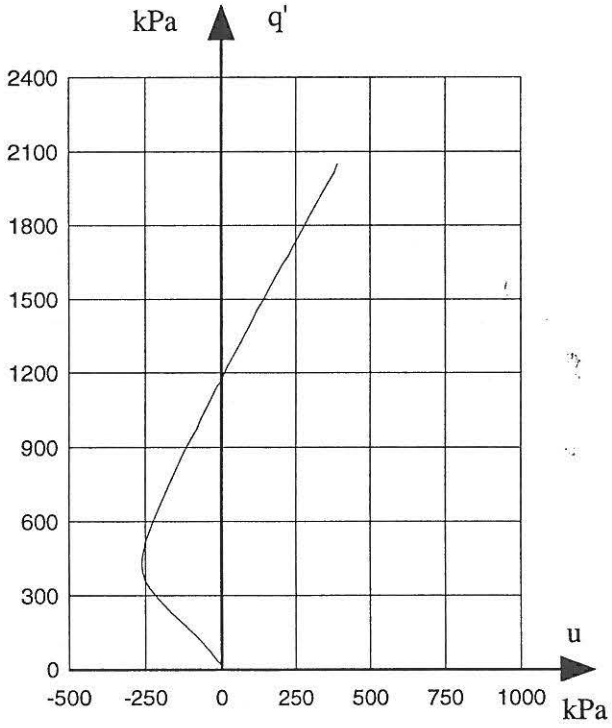
q'	p'	ε 1	ε v
0.00	500.40	0.00	0.00
7.79	504.60	0.06	0.00
15.58	502.89	0.08	0.00
25.06	500.95	0.11	0.00
54.16	490.75	0.17	0.00
71.41	485.80	0.19	0.00
105.90	473.50	0.22	0.00
168.05	445.22	0.28	0.00
286.48	387.19	0.49	0.00
427.08	381.36	0.98	0.00
522.50	427.37	1.35	0.00
592.26	471.02	1.59	0.00
705.70	548.33	1.96	0.00
819.65	628.12	2.33	0.00
934.97	713.06	2.66	0.00
1100.39	836.30	3.12	0.00
1222.66	925.25	3.48	0.00
1363.64	1036.15	3.83	0.00
1498.35	1139.65	4.16	0.00
1636.65	1247.65	4.49	0.00
1759.71	1348.87	4.82	0.00
1848.70	1418.23	5.04	0.00
1974.82	1518.37	5.37	0.00
2051.65	1575.18	5.59	0.00

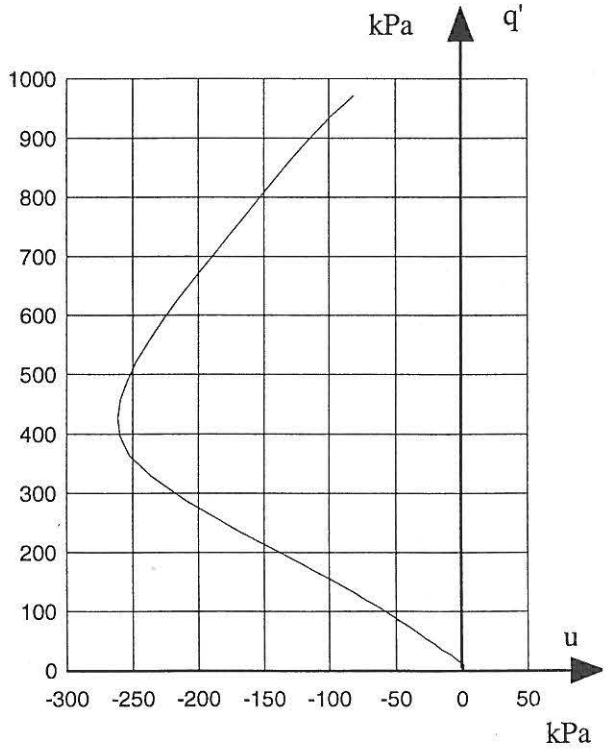
Job:	Encl. No
Lund No 0	13
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.114







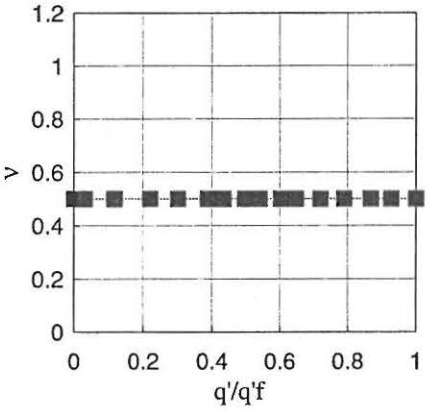


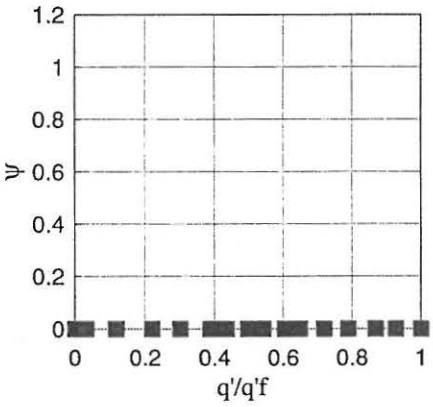
Job: Lund No 0	Encl. No 14
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	23.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.610	0.611
		Saturation	1.01	
kal90_01	08.01.91	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	80-1000	kPa
CU - Triaxial test.		ε 1	-0.013	%
free ends		ε ν	1.001	%
	2.Undrained compression.			
	Deformation rate:		3.1	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 194.83	kPa	953.64	kPa
Mean normal stress	p'	1 735.91	kPa	868.08	kPa
Confining pressures	σ3	1 004.30	kPa	550.20	kPa
Vertical strain	ε 1	3.91	%	1.33	%
Volumetric strain	ε ν	0.00	%	0.00	%



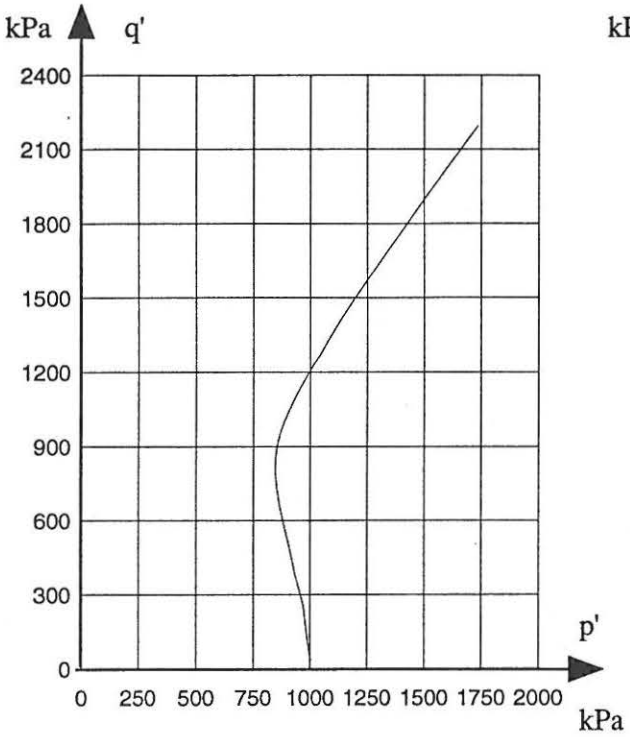


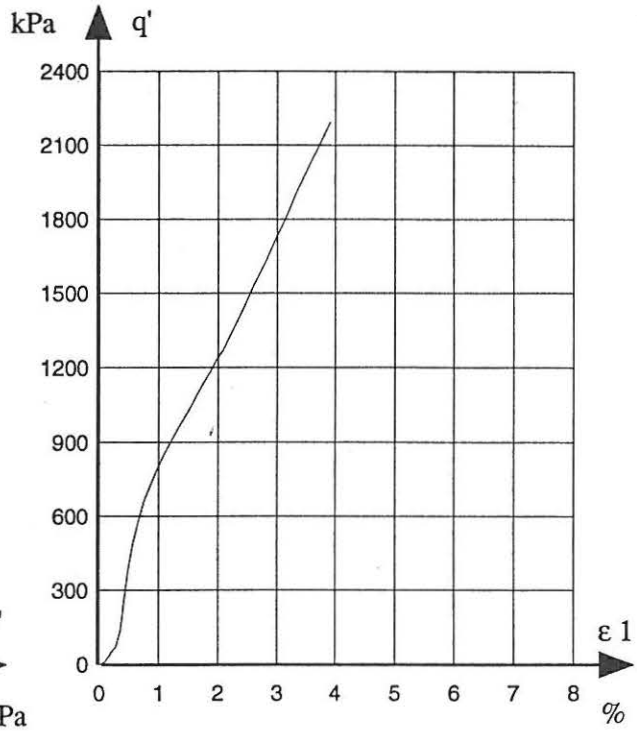
q'	p'	ε 1	ε ν
0.68	996.73	0.00	0.00
2.73	997.31	0.06	0.00
7.50	998.50	0.09	0.00
10.56	1000.12	0.11	0.00
20.09	1000.50	0.13	0.00
27.24	1001.28	0.16	0.00
36.76	1002.65	0.19	0.00
48.32	1000.21	0.22	0.00
55.79	1000.00	0.24	0.00
69.37	995.52	0.29	0.00
256.38	969.46	0.42	0.00
485.23	909.44	0.57	0.00
662.62	863.47	0.76	0.00
851.69	847.30	1.09	0.00
953.64	868.08	1.33	0.00
1092.39	930.03	1.65	0.00
1187.31	987.17	1.87	0.00
1322.94	1075.58	2.19	0.00
1421.99	1142.60	2.39	0.00
1579.72	1257.07	2.70	0.00
1732.01	1371.74	3.00	0.00
1905.34	1506.61	3.32	0.00
2033.45	1606.22	3.58	0.00
2194.83	1735.91	3.91	0.00

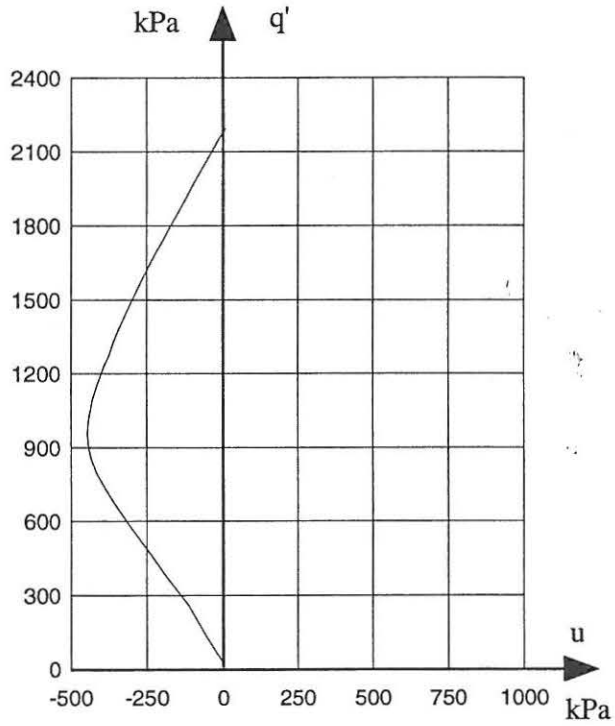
Job:	Encl. No
Lund No 0	15
Exc:	Check:
LBI, AMS	FRJ

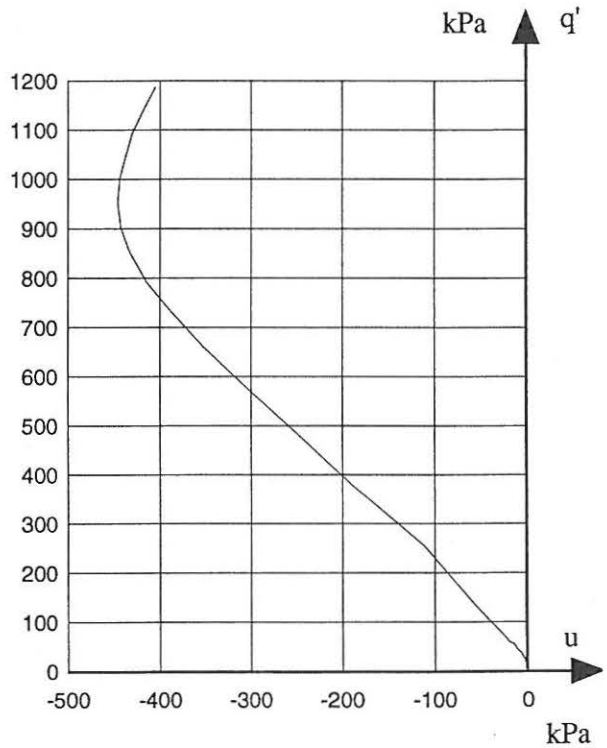
Remark:
Preparation [%] Δ ε1 = 0.020

CUu=o TRIAXIAL TEST NO 8901.P04







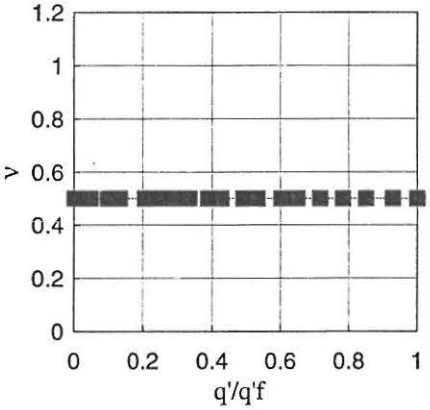


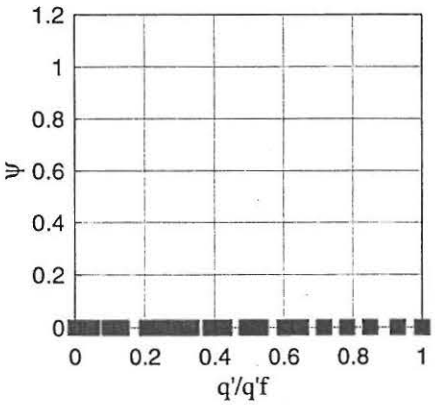
Job: Lund No 0	Encl. No 16
Exc: LBI, AMS	Check: FRJ

Description of soil Lund No 0			Before test	At failure
		Water content %		
		Grain density	2.65	
Calibration file	Date	Void ratio	0.602	0.602
		Saturation		
kal90_01	09.01.91	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	80-100	kPa
CU - Triaxial test.		ε 1	0.069	%
free ends		ε ν	-0.036	%
	2.Undrained compression.			
	Deformation rate:		3.9	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 383.20	kPa	95.20	kPa
Mean normal stress	p'	1 809.30	kPa	94.43	kPa
Confining pressures	σ3	1 014.90	kPa	62.70	kPa
Vertical strain	ε 1	6.71	%	0.24	%
Volumetric strain	ε ν	0.00	%	0.00	%

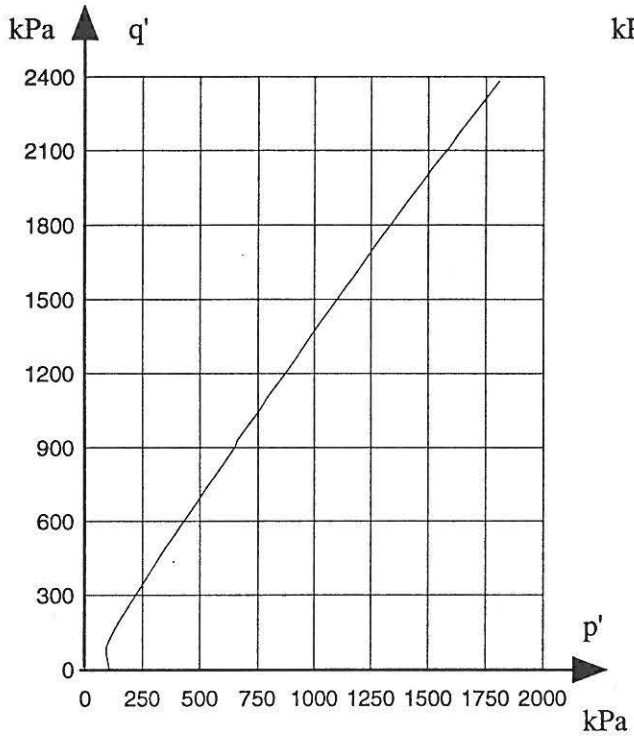


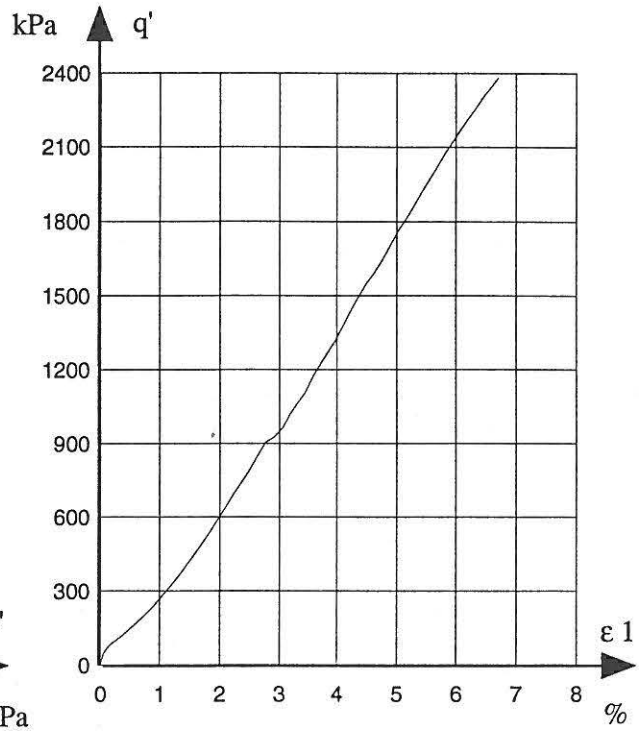


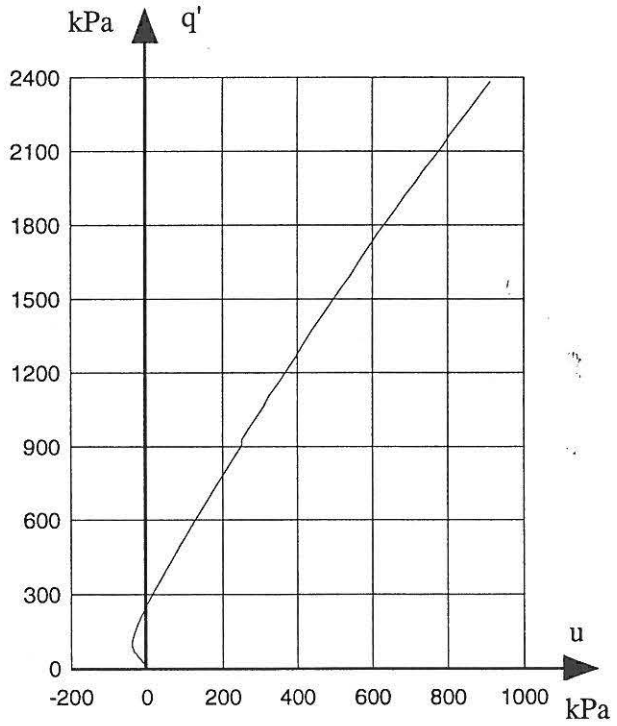
q'	p'	ε 1	ε ν
0.34	102.41	0.00	0.00
5.39	104.10	0.01	0.00
24.61	99.80	0.03	0.00
53.92	94.37	0.07	0.00
78.12	91.64	0.15	0.00
95.20	94.43	0.24	0.00
112.26	101.52	0.34	0.00
234.64	174.21	0.88	0.00
313.97	228.26	1.16	0.00
490.92	352.04	1.70	0.00
588.14	421.85	1.96	0.00
693.99	499.43	2.23	0.00
794.99	573.10	2.50	0.00
924.86	659.59	2.92	0.00
1015.42	728.67	3.18	0.00
1169.30	845.87	3.57	0.00
1265.11	920.80	3.83	0.00
1433.35	1047.58	4.22	0.00
1545.66	1136.12	4.49	0.00
1705.47	1258.99	4.90	0.00
1864.57	1385.52	5.29	0.00
2024.04	1513.58	5.68	0.00
2213.25	1669.15	6.20	0.00
2383.20	1809.30	6.71	0.00

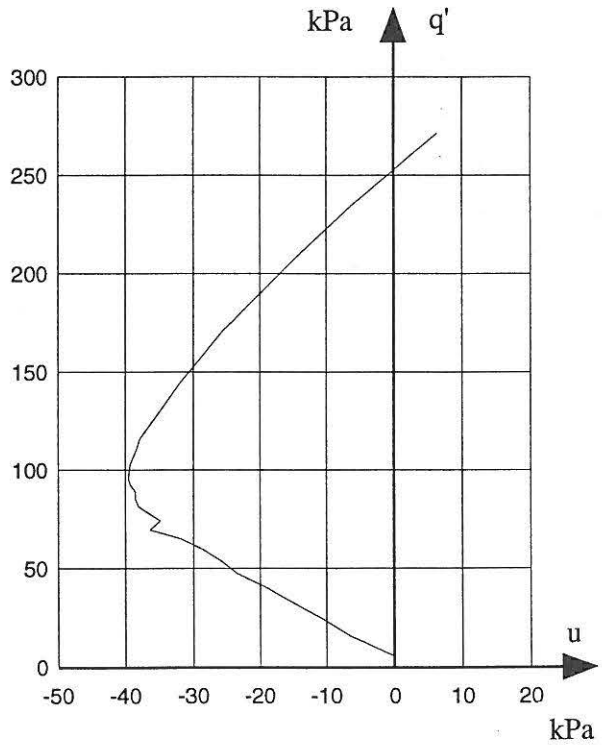
Job:	Encl. No
Lund No 0	17
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.003
Saturation not measured.







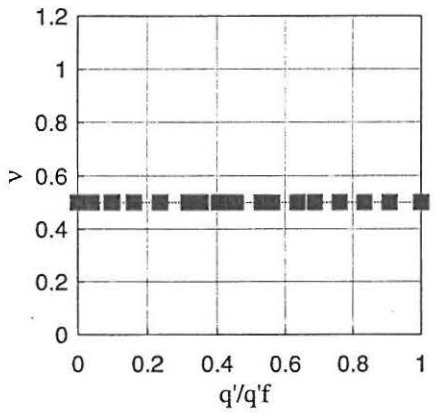


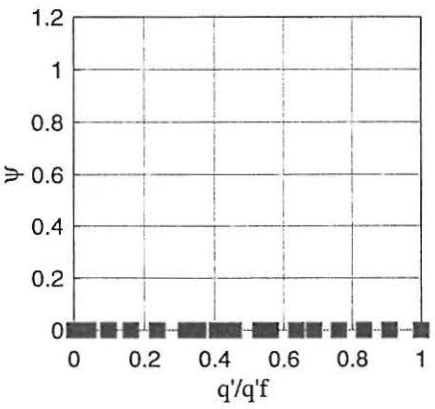
Job: Lund No 0	Encl. No 18
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	20.9	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.553	0.553
		Saturation	1.00	
kal90_01	28.02.91	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	100-100 kPa
CU - Triaxial test.		ε 1	-0.154 %
free ends		ε v	0.000 %
	2.Undrained compression.		
	Deformation rate:		3.1 % ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 581.35	kPa	102.79	kPa
Mean normal stress	p'	1 897.75	kPa	95.96	kPa
Confining pressures	σ3	1 037.30	kPa	61.70	kPa
Vertical strain	ε 1	6.42	%	0.64	%
Volumetric strain	ε v	0.00	%	0.00	%

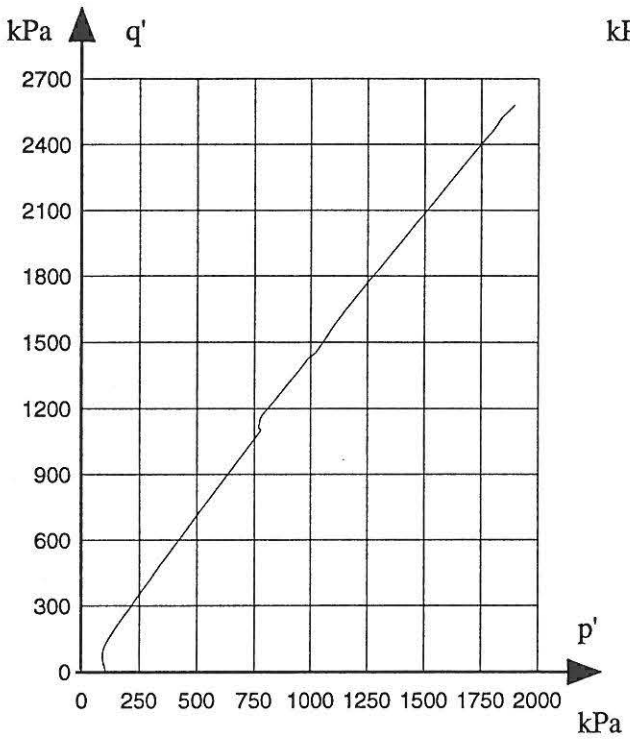


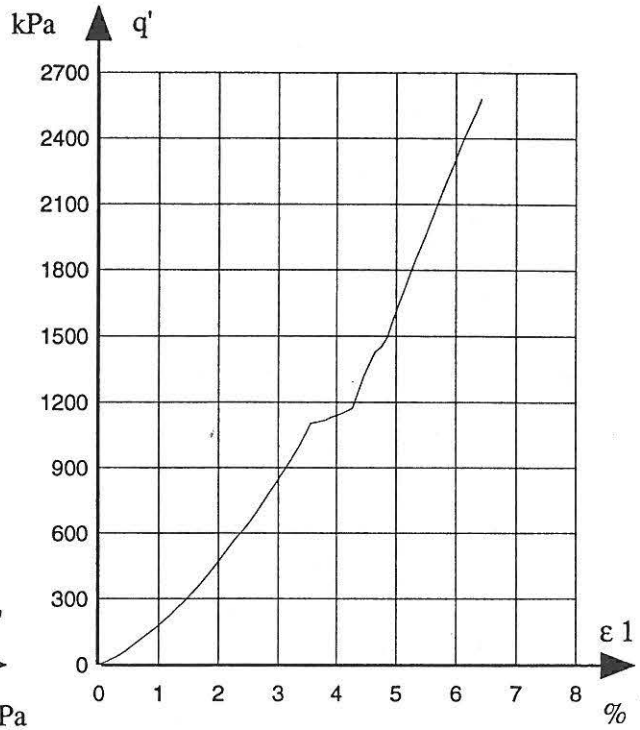


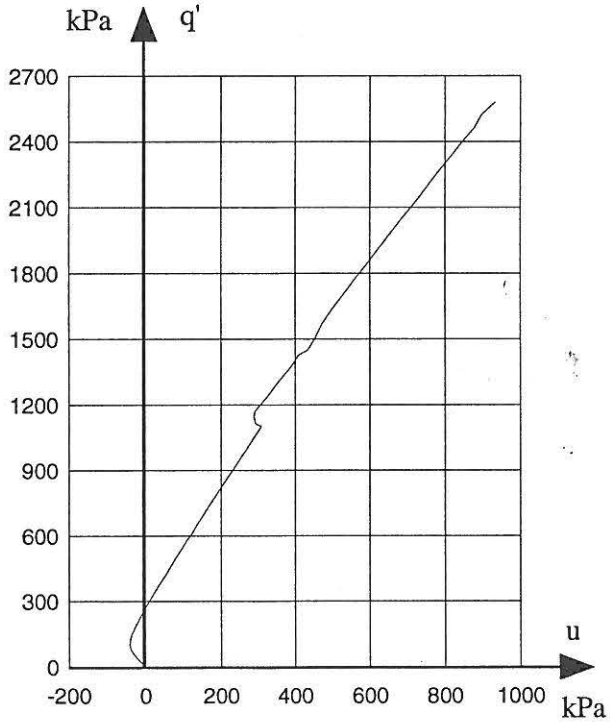
q'	p'	ε 1	ε v
1.01	103.44	0.00	0.00
2.70	103.40	0.02	0.00
6.76	102.95	0.06	0.00
14.18	100.93	0.13	0.00
24.29	98.10	0.21	0.00
36.07	95.42	0.30	0.00
102.79	95.96	0.64	0.00
252.28	182.29	1.30	0.00
415.51	293.00	1.84	0.00
611.78	430.53	2.40	0.00
821.68	576.99	2.94	0.00
911.58	642.56	3.15	0.00
1049.81	740.84	3.45	0.00
1109.65	769.48	3.67	0.00
1141.83	771.81	4.03	0.00
1171.72	784.87	4.27	0.00
1369.67	946.26	4.55	0.00
1449.82	1020.77	4.75	0.00
1640.75	1150.92	5.04	0.00
1774.43	1254.28	5.22	0.00
1962.63	1402.81	5.49	0.00
2151.64	1553.21	5.77	0.00
2343.36	1703.82	6.05	0.00
2581.35	1897.75	6.42	0.00

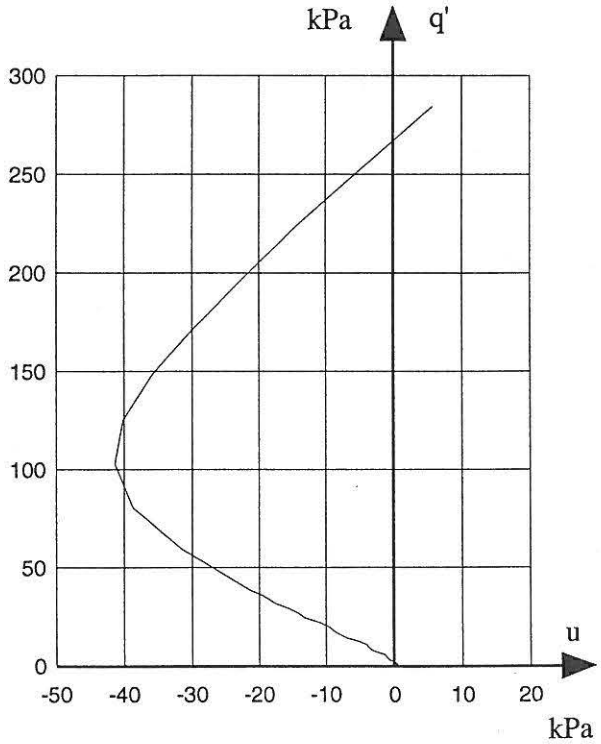
Job:	Encl. No
Lund No 0	19
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.019
Volumetric strain not measured during isotropic consolidation.







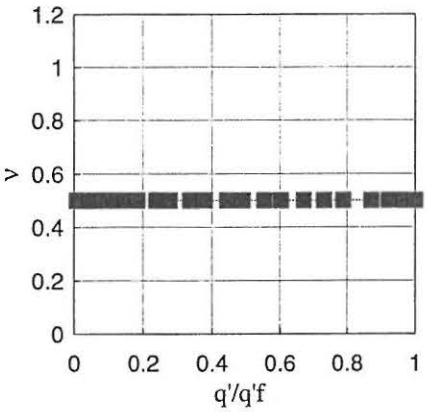


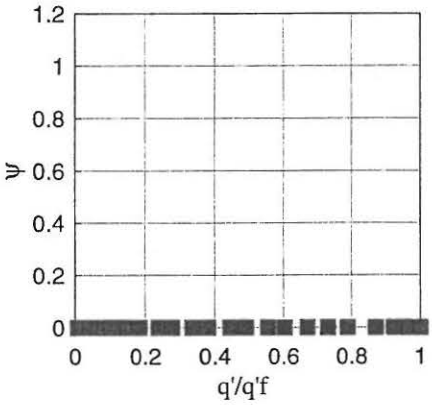
Job: Lund No 0	Encl. No 20
Exc: LBI, AMS	Check: FRJ

Description of soil Lund No 0			Before test	At failure
		Water content %		
		Grain density	2.65	
Calibration file	Date	Void ratio	0.560	0.560
		Saturation		
kal90_01	02.03.91	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-250	kPa
CU - Triaxial test.		ε 1	0.153	%
free ends		ε ν	0.264	%
	2.Undrained compression.			
	Deformation rate:		3.0	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 430.65	kPa	251.47	kPa
Mean normal stress	p'	1 783.62	kPa	231.42	kPa
Confining pressures	σ3	973.40	kPa	147.60	kPa
Vertical strain	ε 1	4.56	%	0.38	%
Volumetric strain	ε ν	0.00	%	0.00	%

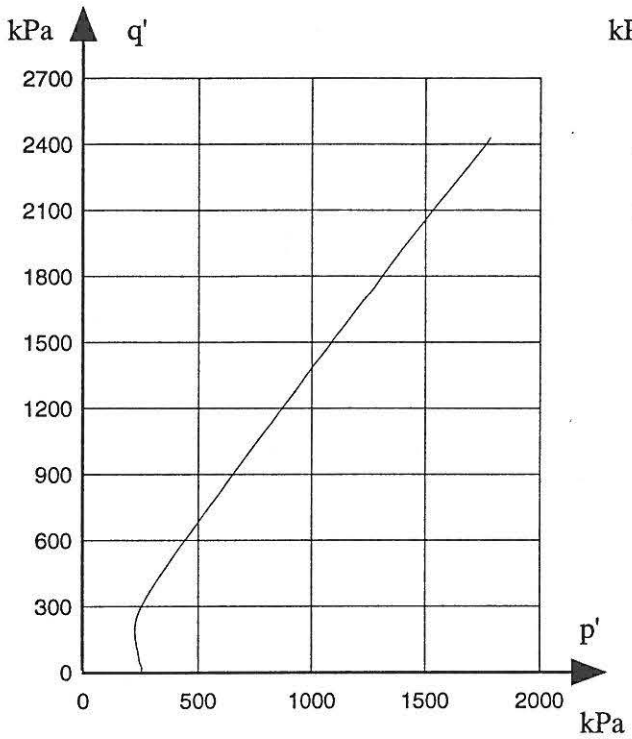


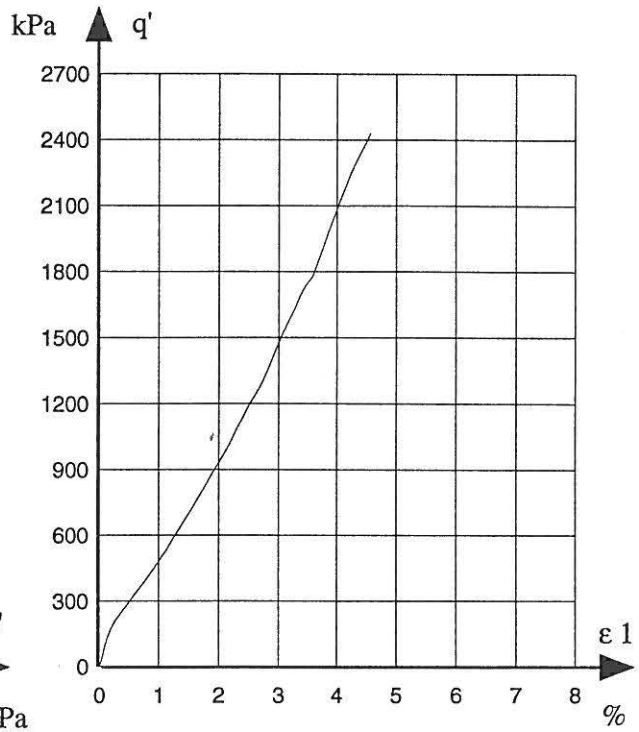


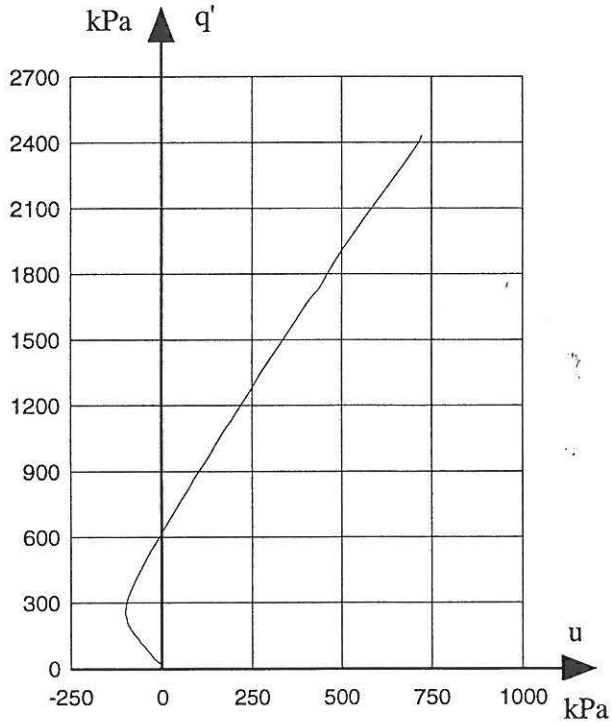
q'	p'	ε 1	ε ν
0.00	250.10	0.00	0.00
20.27	253.66	0.03	0.00
45.26	242.09	0.06	0.00
109.37	231.46	0.12	0.00
163.60	224.03	0.19	0.00
204.93	222.91	0.26	0.00
251.47	231.42	0.38	0.00
365.09	287.90	0.70	0.00
446.67	339.59	0.92	0.00
581.39	428.90	1.24	0.00
672.13	492.04	1.44	0.00
818.04	594.38	1.76	0.00
921.53	667.08	1.98	0.00
1080.46	780.25	2.28	0.00
1187.91	859.17	2.49	0.00
1344.15	970.95	2.79	0.00
1463.86	1059.65	2.98	0.00
1628.51	1181.24	3.27	0.00
1775.77	1294.62	3.58	0.00
1914.80	1392.67	3.76	0.00
2114.48	1544.93	4.04	0.00
2238.97	1642.02	4.22	0.00
2348.98	1727.09	4.42	0.00
2430.65	1783.62	4.56	0.00

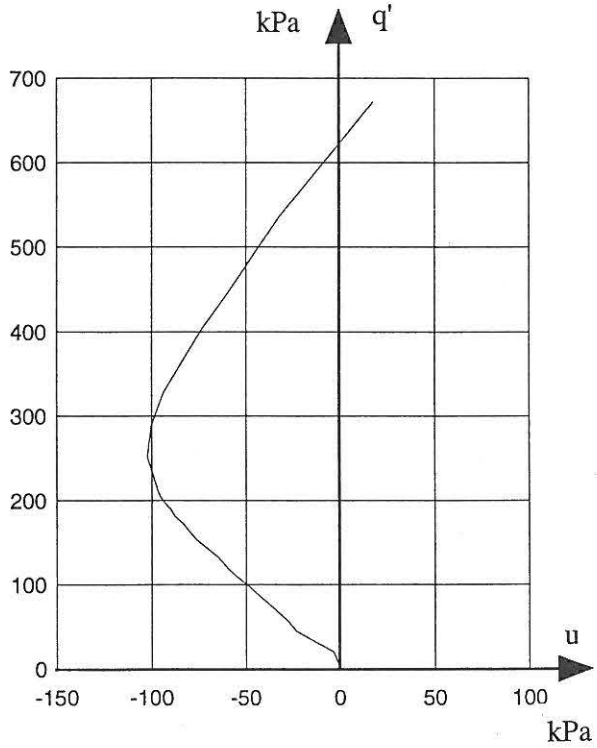
Job:	Encl. No
Lund No 0	21
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = -0.010
Error during saturation.







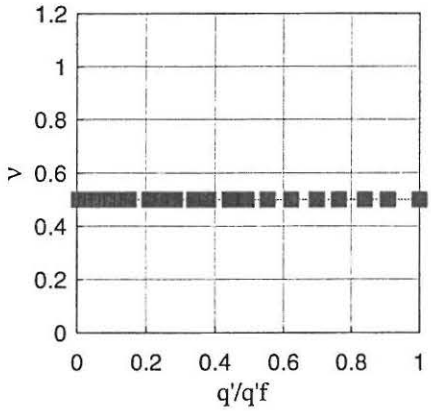


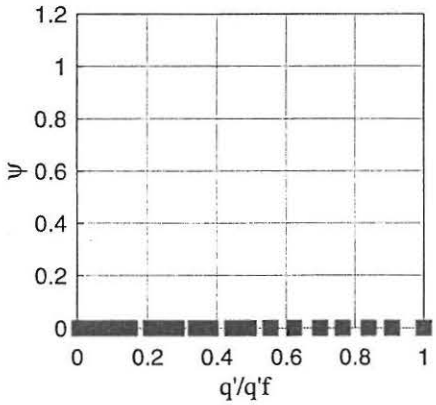
Job: Lund No 0	Encl. No 22
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21.2	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.553	0.553
		Saturation	1.02	
kal90_01	04.03.91	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.			
	1. Isotropic compression.	σ3	100-500	kPa
CU - Triaxial test.		ε 1	0.132	%
free ends		ε ν	0.508	%
	2.Undrained compression.			
	Deformation rate:		3.0	% ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 487.34	kPa	521.80	kPa
Mean normal stress	p'	1 837.01	kPa	455.93	kPa
Confining pressures	σ3	1 007.90	kPa	282.00	kPa
Vertical strain	ε 1	4.22	%	0.58	%
Volumetric strain	ε ν	0.00	%	0.00	%



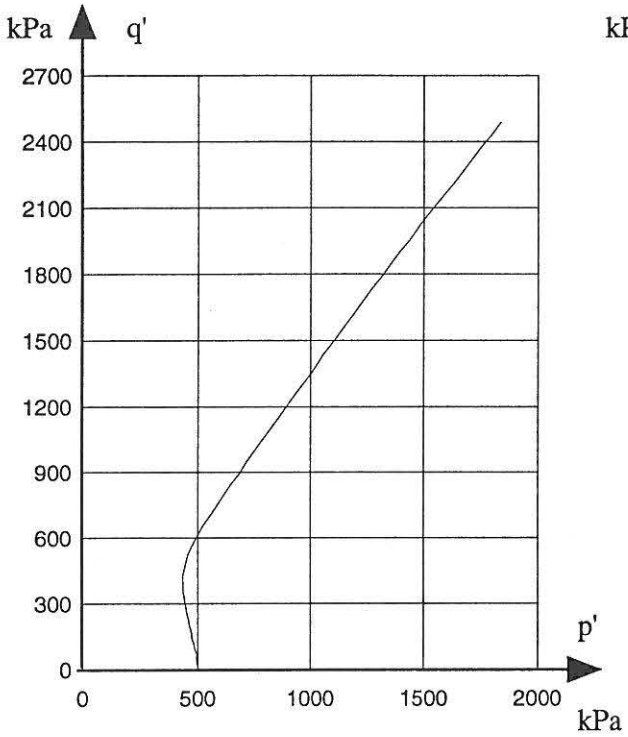


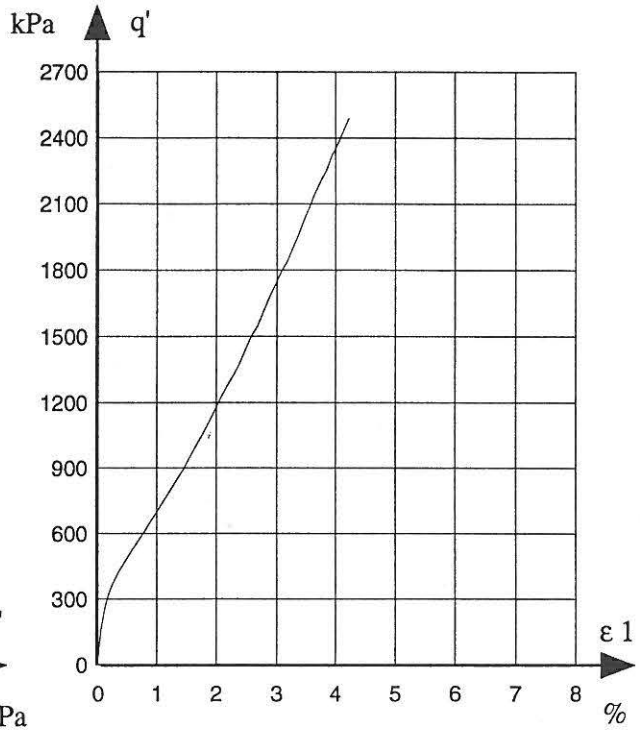
q'	p'	ε 1	ε ν
-0.34	500.49	0.00	0.00
16.60	498.23	0.00	0.00
69.79	495.66	0.02	0.00
116.52	483.04	0.03	0.00
160.86	472.22	0.05	0.00
219.04	460.61	0.09	0.00
253.50	452.30	0.11	0.00
298.39	443.56	0.16	0.00
324.34	439.71	0.19	0.00
368.74	434.11	0.25	0.00
521.80	455.93	0.58	0.00
611.09	498.40	0.80	0.00
707.31	557.57	1.02	0.00
846.12	646.64	1.34	0.00
945.38	713.73	1.55	0.00
1102.68	823.76	1.86	0.00
1219.47	904.29	2.07	0.00
1375.71	1017.57	2.38	0.00
1547.77	1139.52	2.68	0.00
1736.37	1273.69	2.98	0.00
1899.32	1393.61	3.27	0.00
2087.19	1531.53	3.55	0.00
2255.68	1664.39	3.85	0.00
2487.34	1837.01	4.22	0.00

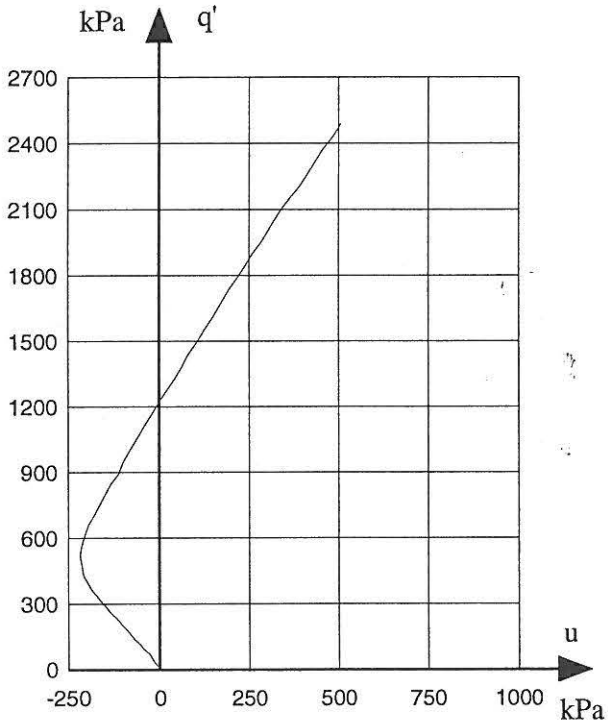
Job:	Encl. No
Lund No 0	23
Exc:	Check:
LBI, AMS	FRJ

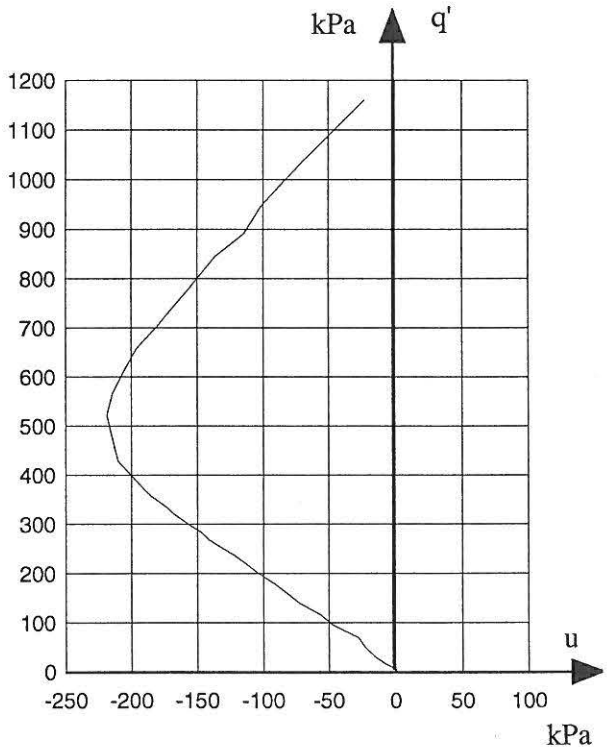
Remark:
Preparation [%] Δ ε1 = 0.051

CUu=o TRIAXIAL TEST NO 8901.P10







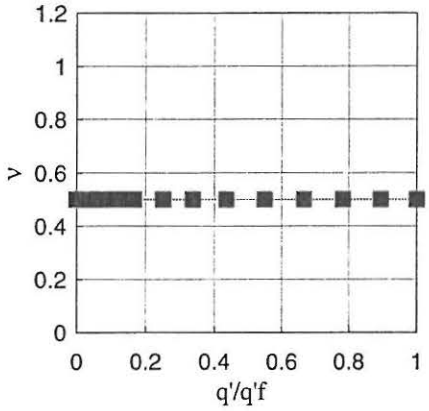


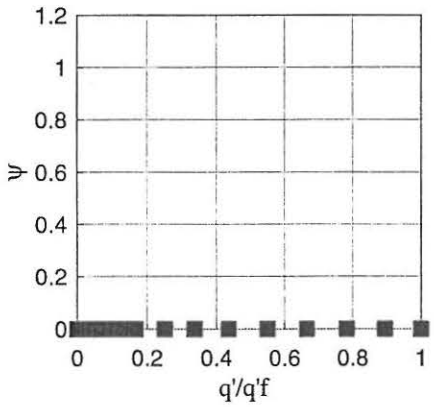
Job: Lund No 0	Encl. No 24
Exc: LBI, AMS	Check: FRJ

Description of soil			Before test	At failure
Lund No 0		Water content %	21	
		Grain density	2.65	
Calibration file	Date	Void ratio	0.561	0.561
		Saturation	1.01	
kal90_01	10.01.90	Dimension H mm	71.5	
		D mm	69.7	

TEST-PROGRAM	Drained compression.		
	1. Isotropic compression.	σ3	20 kPa
CU - Triaxial test.		ε 1	%
free ends		ε v	%
	2.Undrained compression.		
	Deformation rate:		3.1 % ph

		Maximum values		Minimum values for σ3	
Deviator stress	q'	2 720.00	kPa	23.97	kPa
Mean normal stress	p'	1 913.67	kPa	22.69	kPa
Confining pressures	σ3	1 007.00	kPa	14.70	kPa
Vertical strain	ε 1	5.93	%	0.15	%
Volumetric strain	ε v	0.00	%	0.00	%

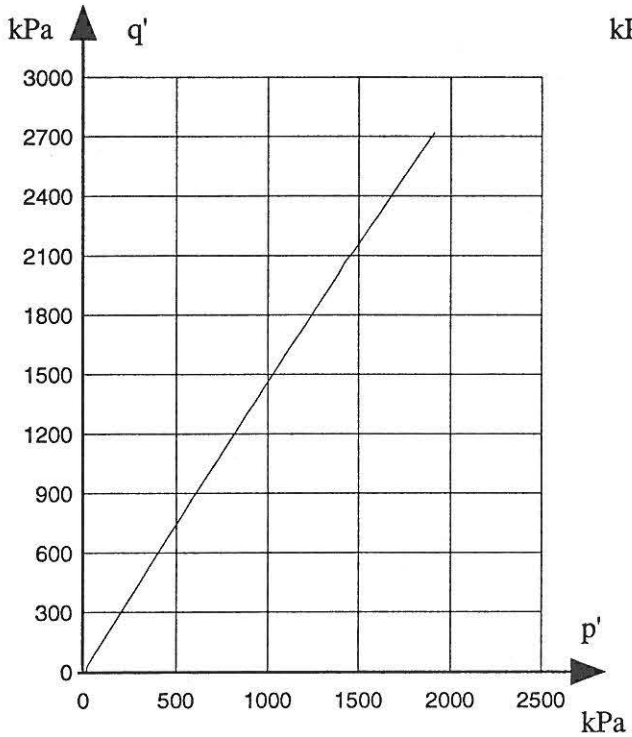


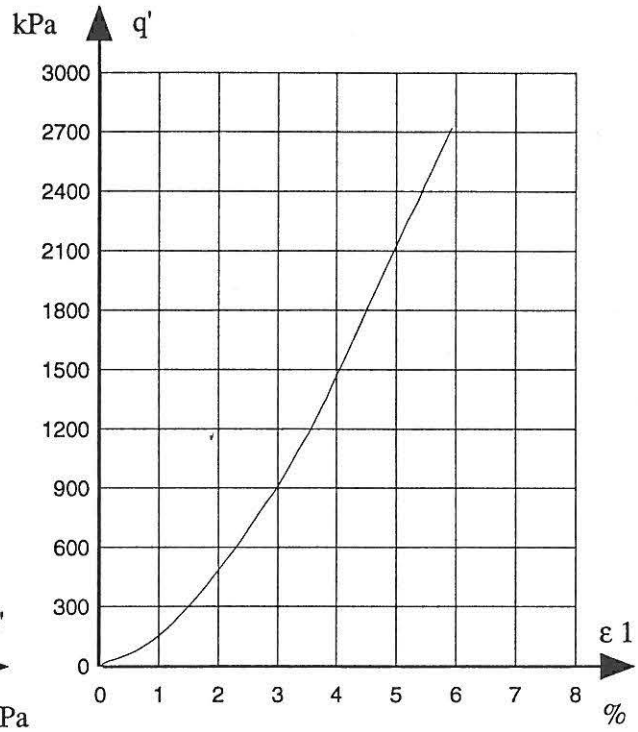


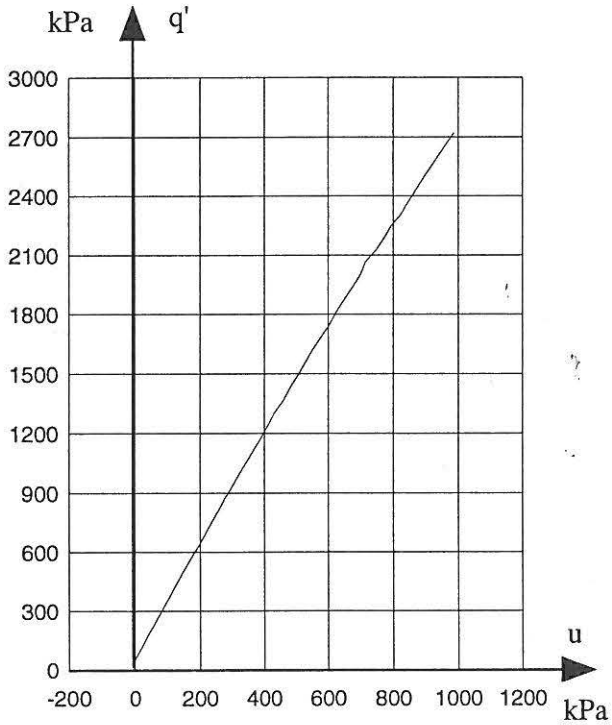
q'	p'	ε 1	ε v
0.68	20.23	0.02	0.00
3.30	21.10	0.03	0.00
11.14	20.11	0.06	0.00
15.53	20.88	0.08	0.00
19.24	21.51	0.11	0.00
23.97	22.69	0.15	0.00
27.34	23.91	0.18	0.00
31.73	26.28	0.23	0.00
34.77	27.69	0.27	0.00
41.18	31.73	0.33	0.00
68.53	48.74	0.56	0.00
109.70	75.87	0.81	0.00
159.70	108.33	1.03	0.00
255.20	171.97	1.36	0.00
326.40	219.40	1.58	0.00
451.70	302.97	1.92	0.00
683.90	460.77	2.49	0.00
917.20	620.03	3.03	0.00
1184.00	806.17	3.54	0.00
1494.00	1023.50	4.04	0.00
1811.00	1248.37	4.52	0.00
2128.00	1478.93	5.01	0.00
2432.00	1700.77	5.48	0.00
2720.00	1913.67	5.93	0.00

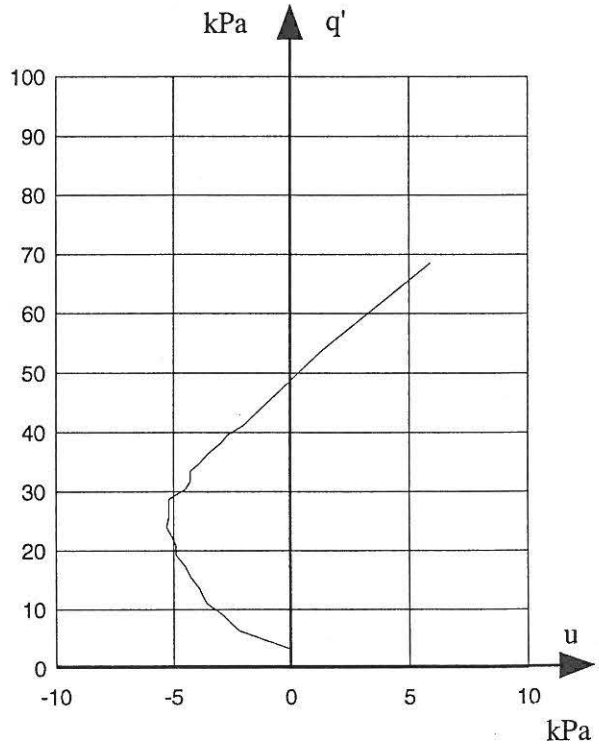
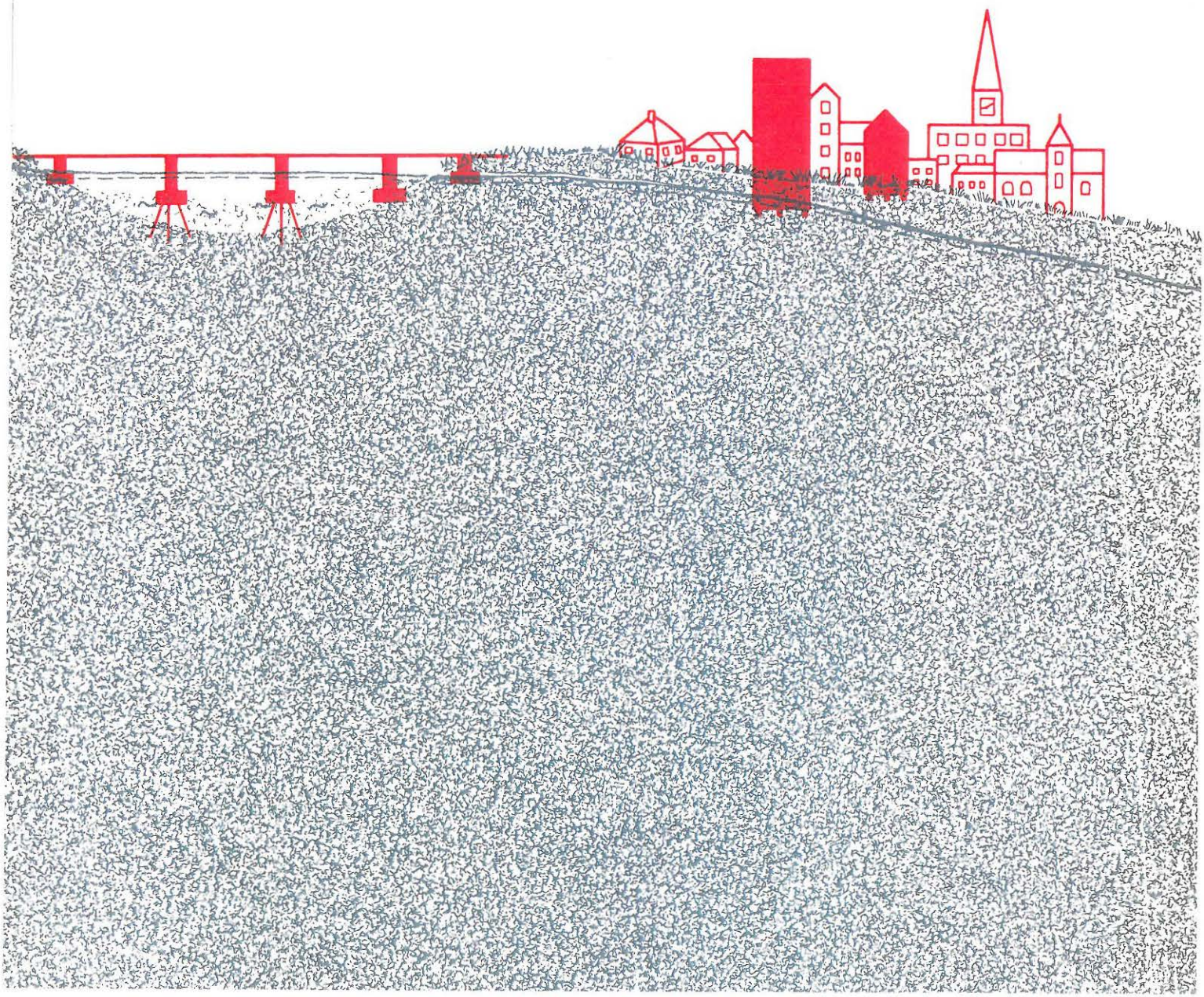
Job:	Encl. No
Lund No 0	25
Exc:	Check:
LBI, AMS	FRJ

Remark:
Preparation [%] Δ ε1 = 0.000









Job: Lund No 0	Encl. No 26
Exc: LBI, AMS	Check: FRJ