

نتائج اختبار الامتصاص

تقرير رقم 20223/M/2005-01

تاريخ الورود : ٢٠٢٣/٣/١

شركة سيدى عبد الرحمن للمقاولات

اسم العميل :

عدد العينات : ٢

القطار الكهربائي السريع

اسم العملية :

Sub ballast

العلمين - فوكة - قطاع ٦

البيانات بعاليه حسب إفادة العميل

مكان العينة	النسبة المئوية للامتصاص
St. 432+600 : St. 434+600 عينة رقم ١	٢.٦٩
St. 432+600 : St. 434+600 عينة رقم ٢	٢.٦٢

اعتماد

اختبار



California Bearing Ratio

تقرير رقم 2023/M/2005-01

Client Name: شركة سيدى عبد الرحمن للمقاولات

Test Date: 01/03/2023

Project Name: القطار الكهربائي السريع
العلمين - فوكة - قطاع ٦

Specimen Type : Sub ballast
عينة رقم 1 : St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل والنتائج التي تم الحصول عليها تمثل العينة الموردة من قبل العميل دون أدنى مسئولية على المركز.

(A) Molding Moisture Contest

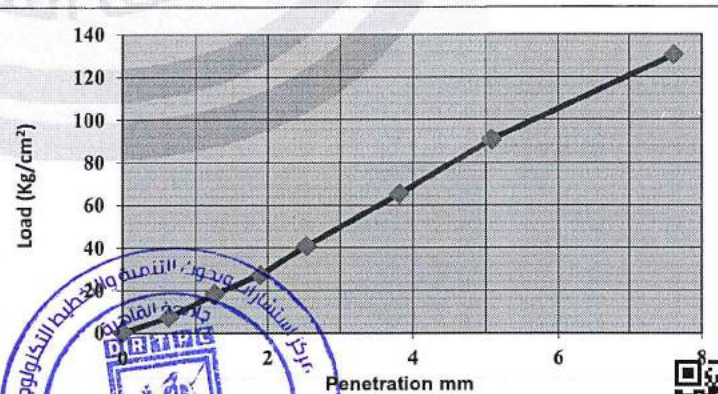
Specimen Name:	1	1	1	Specimen Name:	1	2	3
Can No.	1			Mold Vol. Cm^3	2208		
A. Mass, Wet Soil + can, g	450			Mass of sample, Mold g	13344		
B. Mass, Dry Soil + can, g	425			Mass of Mold g	8458		
C. Mass Moisture (A-B)	25			Mass of sample g	4886		
D. Mass Can g	100			Unite Wet Mass g/cm^3	2.21		
E. Mass of Dry Soil (B-D)	325			Percent Moisture %	7.69		
F. %Moisture ((C/E*100)	7.69			Unite Dry Mass g/cm^3	2.05		

	Test No. 1				Test No. 2				Test No. 3			
Penetration mm	Molded /	TESTED /			Molded /	TESTED /			Molded /	TESTED /		
	Total	Unit	Corr.	%	Total	Unit	Corr.	%	Total	Unit	Corr.	%
	Load kg	Load (K/cm^2)	Load K/cm^2	CBR	Load kg	Load (K/cm^2)	Load K/cm^2	CBR	Load kg	Load (K/cm^2)	Load K/cm^2	CBR
0	0	0.00										
0.64	140	7.23										
1.27	352	18.19										
1.9	527	27.23										
2.54	792	40.92		59.31								
3.81	1264	65.31										
5.08	1756	90.73		88.09								
7.62	2521	130.26										

Swell

Specimen Name:	1		
Mold No.	1		
Final Hight mm	6.21		
Initial Height mm	6.20		
Difference mm	0.01		
Sample Length mm	125.00		
Percent Swell %	0.01		

Test No.	1		
Blows Per Layer	10		



Tested By

Approved

California Bearing Ratio

تقرير رقم 2023/M/2005-01

Client Name: شركة سيدى عبد الرحمن للمقاولات

Test Date: 01/03/2023

Project Name: القطار الكهربائي السريع
العلمين - فوكة - قطاع ٢

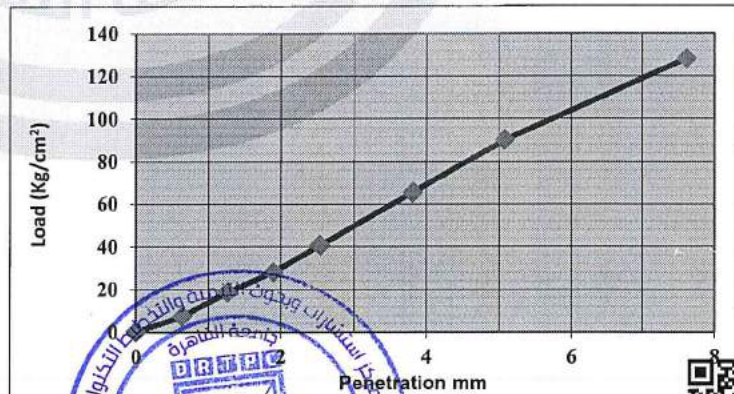
Specimen Type : Sub ballast
عينة رقم ٢ : St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل والنتائج التى تم الحصول عليها تمثل العينة الموردة من قبل العميل دون أدنى مسئولية على المركز.

(A) Molding Moisture Contest							
Specimen Name:	1	1	1	Specimen Name:	1	2	3
Can No.	1			Mold Vol. Cm^3	2208		
A. Mass, Wet Soil + can, g	425			Mass of sample, Mold g	13328		
B. Mass, Dry Soil + can, g	402			Mass of Mold g	8458		
C. Mass Moisture (A-B)	23			Mass of sample g	4870		
D. Mass Can g	100			Unite Wet Mass g/cm^3	2.21		
E. Mass of Dry Soil (B-D)	302			Percent Moisture %	7.62		
F. %Moisture ((C/E*100)	7.62			Unite Dry Mass g/cm^3	2.05		

Penetration mm	Test No. 1				Test No. 2				Test No. 3			
	Molded /		TESTED /		Molded /		TESTED /		Molded /		TESTED /	
	Total	Unit	Corr.	%	Total	Unit	Corr.	%	Total	Unit	Corr.	%
	Load kg	Load (K/cm^2)	Load K/cm^2	CBR	Load kg	Load (K/cm^2)	Load K/cm^2	CBR	Load kg	Load (K/cm^2)	Load K/cm^2	CBR
0	0	0.00										
0.64	140	7.23										
1.27	361	18.65										
1.90	542	28.01										
2.54	788	40.72		59.01								
3.81	1268	65.52										
5.08	1743	90.06		87.44								
7.62	2479	128.09										

Swell			
Specimen Name:	1		
Mold No.	1		
Final Hight mm	3.87		
Initial Height mm	3.86		
Difference mm	0.01		
Sample Length mm	125.00		
Percent Swell %	0.01		
Test No.	1		
Blows Per Layer	56		



Tested By

Approved

اختبار تعيين أقصى كثافة جافة بتجربة بروكتور المعدلة

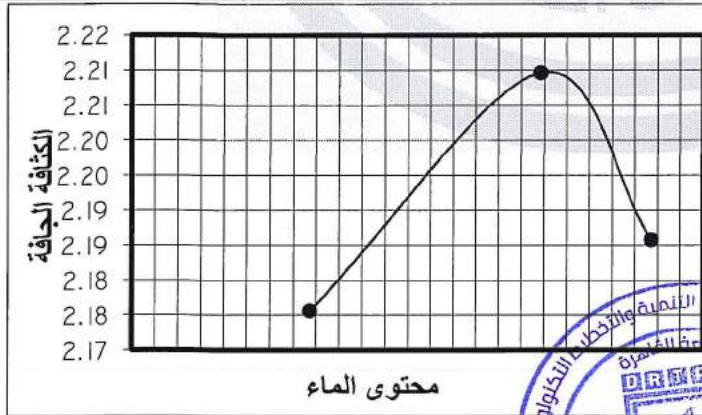
تقرير رقم 2023/M/2005-01

اسم العميل: شركة سيدى عبد الرحمن للمقاولات
اسم العملية: القطار الكهربائى السريع
التاريخ: ٢٠٢٣/٣/١
نوع التربة: Sub ballast
حجم القالب: ٢١١٢ سم^٣
العلمين - فوكة - قطاع ٦

عينة رقم ١ St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل

نسبة الماء المضاف %	3	6	9
وزن القالب و العينة جم	11132	11395	11431
وزن القالب جم	6395	6395	6395
وزن العينة المبتلة جم	4737	5000	5036
الكثافة بعد الدمك جم/سم ^٣	2.24	2.37	2.38
وزن عينة بالطبق جم	400	400	400
وزن عينة بعد التجفيف بالطبق جم	391	380	375
وزن الرطوبة جم	9	20	25
وزن الطبق جم	100	100	100
وزن العينة جافة جم	291	280	275
محتوى الرطوبة %	3.09	7.14	9.09
الكثافة الجافة جم/سم ^٣	2.18	2.21	2.19



أقصى كثافة جافة = ٢.٢١ كجم / سم^٣
عند محتوى ماء = ٧.١٤ %

اعتماد

اختبار



اختبار تعيين أقصى كثافة جافة بتجربة بروكتور المعدلة

تقرير رقم 2023/M/2005-02

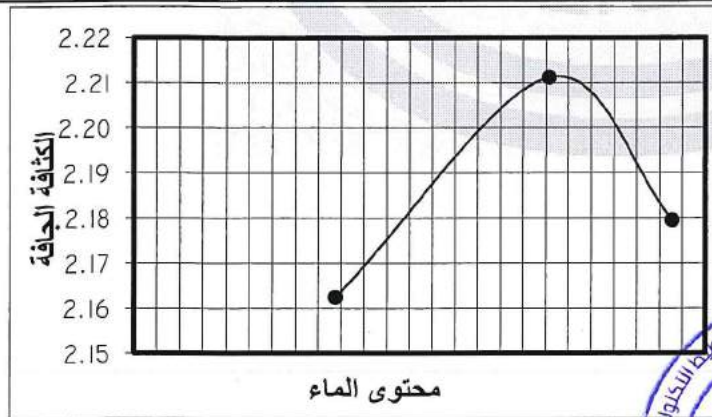
التاريخ : ٢٠٢٣/٣/١
نوع التربة : Sub ballast
حجم القالب : ٢١١٢ سم^٣

اسم العميل : شركة سيدى عبد الرحمن للمقاولات
اسم العملية : القطار الكهربائى السريع
العلمين - فوكة - قطاع ٦

عينة رقم ٢ St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل

نسبة الماء المضاف %	3	6	9
وزن القالب و العينة جم	11122	11404	11432
وزن القالب جم	6395	6395	6395
وزن العينة المبتلة جم	4727	5009	5037
الكثافة بعد الدمك جم/سم ^٣	2.24	2.37	2.38
وزن عينة بالطبق جم	425	425	425
وزن عينة بعد التجفيف بالطبق جم	414	403	397
وزن الرطوبة جم	11	22	28
وزن الطبق جم	100	100	100
وزن العينة جافة جم	314	303	297
محتوى الرطوبة %	3.50	7.26	9.43
الكثافة الجافة جم/سم ^٣	2.16	2.21	2.18



أقصى كثافة جافة = ٢.٢١ كجم /سم^٣
عند محتوى ماء = ٧.٢٦ %

اعتماد
إ. ج. ص. ب.



اختبار



Los Angeles Abrasion (AASHTO T96)

تقرير رقم 2023/M/2005-01

Client Name: شركة سيدى عبد الرحمن للمقاولات

Test Date: 01/03/2023

Project Name: القطار الكهربائى السريع
العلمين - فوكة - قطاع ٦

Specimen type: 'Sub ballast'
عينة رقم 1 : St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل والنتائج التي تم الحصول عليها تمثل العينة الموردة من قبل العميل دون أدنى مسئولية على المركز.

Test Class		A	B	C	D
Abrasive Charge (No. of Spheres)		12	11	8	6
Sieves		Sample Mass			
Passing	Retained	g			
mm (alt.)	mm (alt.)				
37.5 (1 1/2in.)	25.0 (1 in.)	1250			
25.0 (1 in.)	19.0 (3/4in.)	1250			
19.0 (3/4in.)	12.5 (1/2in.)	1250	2500		
12.5 (1/2in.)	9.50 (3/8in.)	1250	2500		
9.50 (3/8in.)	6.35 (1/4in.)			2500	
6.35 (1/4in.)	4.75 (No.4)			2500	
4.75 (No.4)	2.36 (No.8)				5000
Total		5000	5000	5000	5000

Total Class (A)
Mass of Sample before Test g = 5000
Mass of Sample retained on 1.70mm(No.12) g = 3724
Los Angeles Wear = ((5000-Mass Ret.) / 5000) X 100 % = 25.52

Tested By

Approved



Los Angeles Abrasion (AASHTO T96)

تقرير رقم 2023/M/2005-02

Client Name: شركة سيدى عبد الرحمن للمقاولات

Test Date: 01/03/2023

Project Name: القطار الكهربائى السريع
العلمين - فوكة - قطاع ٦

Specimen type: 'Sub ballast
عينة رقم ٢ : St. 432+600 : St. 434+600

البيانات بعاليه حسب إفادة العميل والنتائج التي تم الحصول عليها تمثل العينة الموردة من قبل العميل دون أدنى مسئولية على المركز.

Test Class		A	B	C	D
Abrasive Charge (No. of Spheres)		12	11	8	6
Sieves		Sample Mass g			
Passing	Retained				
mm (alt.)	mm (alt.)				
37.5 (1 1/2in.)	25.0 (1 in.)	1250			
25.0 (1 in.)	19.0 (3/4in.)	1250			
19.0 (3/4in.)	12.5 (1/2in.)	1250	2500		
12.5 (1/2in.)	9.50 (3/8in.)	1250	2500		
9.50 (3/8in.)	6.35 (1/4in.)			2500	
6.35 (1/4in.)	4.75 (No.4)			2500	
4.75 (No.4)	2.36 (No.8)				5000
Total		5000	5000	5000	5000

Total Class (A)
Mass of Sample before Test g = 5000
Mass of Sample retained on 1.70mm(No.12) g = 3701
Los Angeles Wear = ((5000-Mass Ret.) / 5000) X 100 % = 25.98

Tested By

Approved



2351 - 121 - 2023-11-23 11:22:03 - 001 - 025 - 3



Plate Load Test Results

Report No. 2023/M/2005-001

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

Test Place.: Sub-ballast

St. 432+600 : 432+625

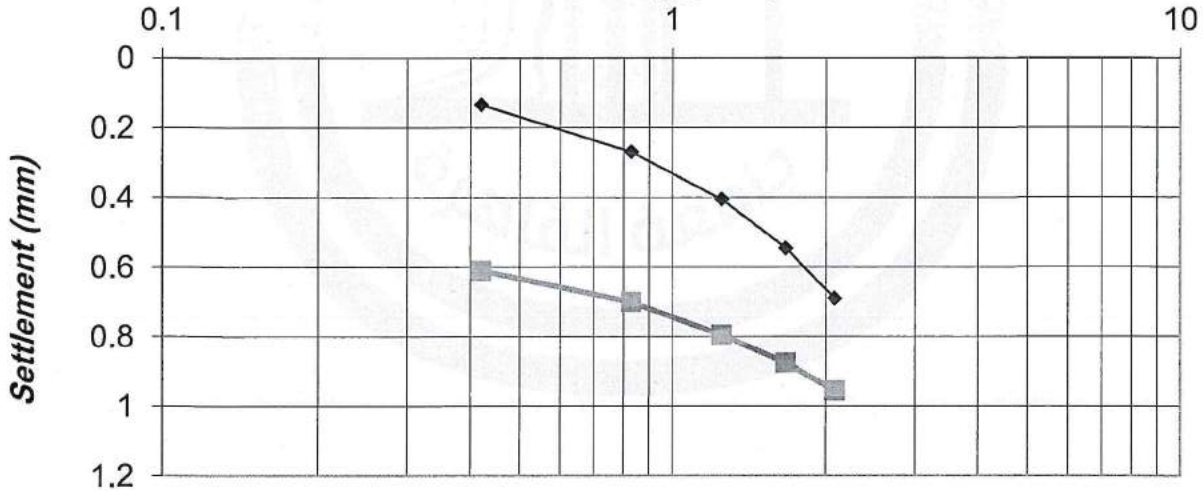
Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9	7	0	0	0	8.58	6.38	0	0	0.52
20.000	1.186	0.420	8.910	6.820	0.090	0.180	0.135	8.480	6.300	0.520	0.700	0.610
40.000	2.346	0.830	8.760	6.700	0.240	0.300	0.270	8.370	6.230	0.630	0.770	0.700
60.000	3.532	1.250	8.630	6.560	0.370	0.440	0.405	8.270	6.140	0.730	0.860	0.795
80.000	4.719	1.670	8.500	6.410	0.500	0.590	0.545	8.180	6.070	0.820	0.930	0.875
100.000	5.878	2.080	8.380	6.240	0.620	0.760	0.690	8.100	5.990	0.900	1.010	0.955

Plate Bearing Test

Pressure (kg/cm²)



Ev1	1355	Kg/cm ²
Ev2	2144	Kg/cm ²
Ev2/Ev1	1.583	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-002

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

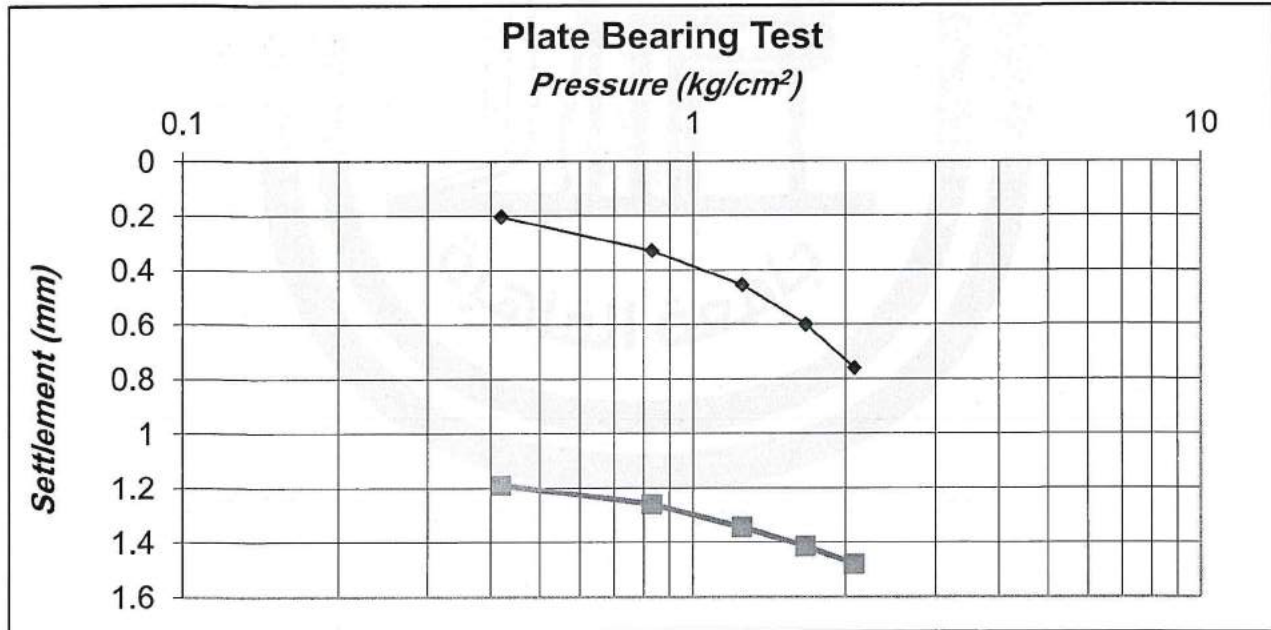
Test Place.: Sub-ballast

St. 432+625 : 432+650

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	7	8	0	0	0	6.38	6.39	0	0	1.115
20.000	1.186	0.420	6.800	7.790	0.200	0.210	0.205	6.300	6.320	0.700	1.680	1.190
40.000	2.346	0.830	6.680	7.660	0.320	0.340	0.330	6.230	6.250	0.770	1.750	1.260
60.000	3.532	1.250	6.560	7.530	0.440	0.470	0.455	6.140	6.170	0.860	1.830	1.345
80.000	4.719	1.670	6.400	7.400	0.600	0.600	0.600	6.090	6.080	0.910	1.920	1.415
100.000	5.878	2.080	6.230	7.250	0.770	0.750	0.760	6.030	6.010	0.970	1.990	1.480



Ev1	1372	Kg/cm ²
Ev2	2463	Kg/cm ²
Ev2/Ev1	1.795	

Tested By



Approved




Plate Load Test Results

Report No. 2023/M/2005-003

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

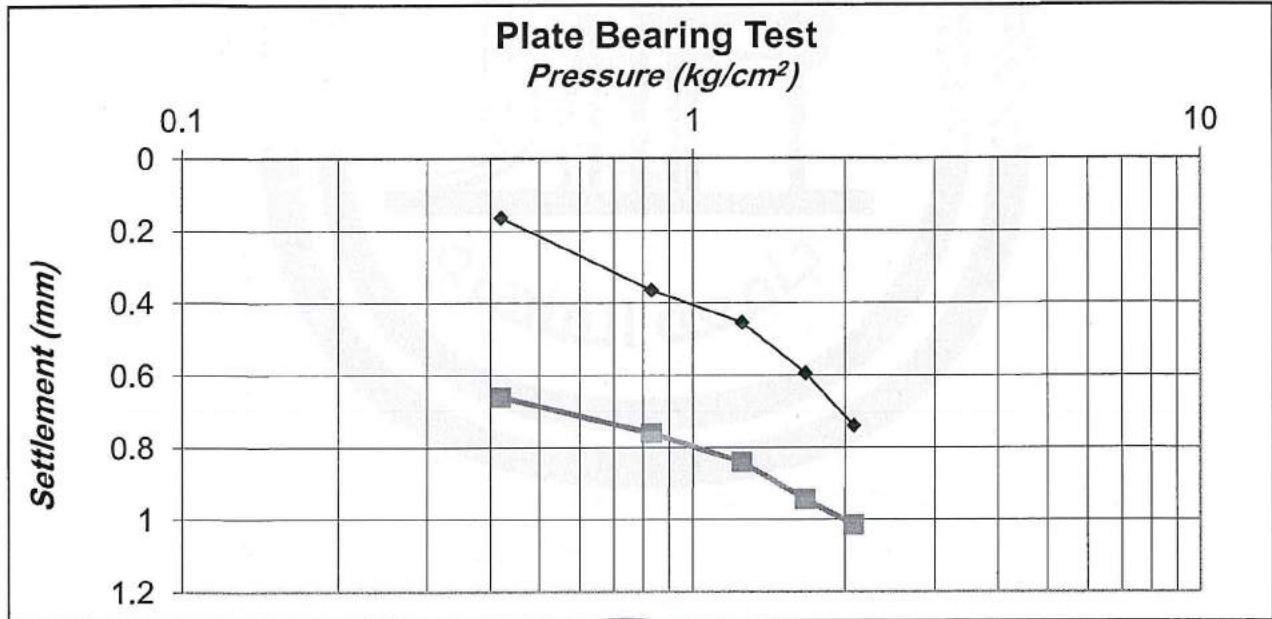
Test Place.: Sub-ballast

St. 432+650 : 432+675

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	8	10	0	0	0	7.27	9.57	0	0	0.58
20.000	1.186	0.420	7.770	9.900	0.230	0.100	0.165	7.200	9.480	0.800	0.520	0.660
40.000	2.346	0.830	7.520	9.750	0.480	0.250	0.365	7.120	9.360	0.880	0.640	0.760
60.000	3.532	1.250	7.470	9.620	0.530	0.380	0.455	7.060	9.260	0.940	0.740	0.840
80.000	4.719	1.670	7.320	9.490	0.680	0.510	0.595	6.940	9.170	1.060	0.830	0.945
100.000	5.878	2.080	7.150	9.370	0.850	0.630	0.740	6.890	9.080	1.110	0.920	1.015



Ev1	1494	Kg/cm ²
Ev2	2045	Kg/cm ²
Ev2/Ev1	1.368	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-004

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

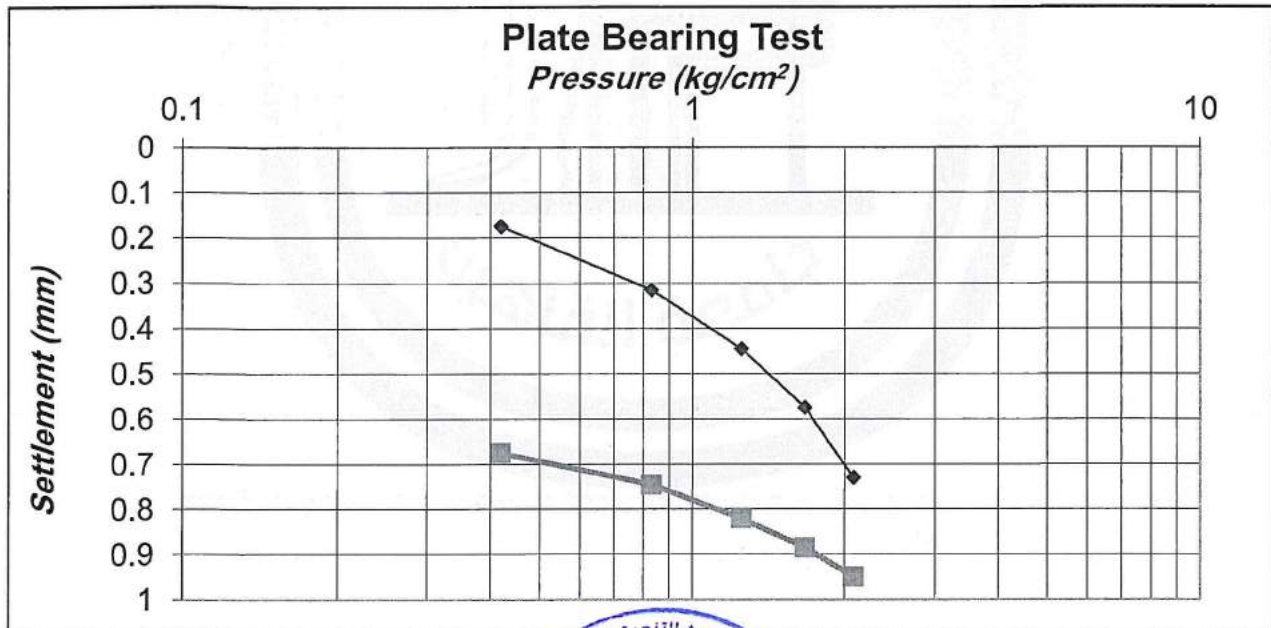
Test Place.: Sub-ballast

St. 432+675 : 432+700

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9	8	0	0	0	8.46	7.35	0	0	0.595
20.000	1.186	0.420	8.870	7.780	0.130	0.220	0.175	8.380	7.270	0.620	0.730	0.675
40.000	2.346	0.830	8.740	7.630	0.260	0.370	0.315	8.310	7.200	0.690	0.800	0.745
60.000	3.532	1.250	8.610	7.500	0.390	0.500	0.445	8.230	7.130	0.770	0.870	0.820
80.000	4.719	1.670	8.480	7.370	0.520	0.630	0.575	8.150	7.080	0.850	0.920	0.885
100.000	5.878	2.080	8.330	7.210	0.670	0.790	0.730	8.090	7.010	0.910	0.990	0.950



Ev1	1405 Kg/cm ²
Ev2	2684 Kg/cm ²
Ev2/Ev1	1.910

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-005

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

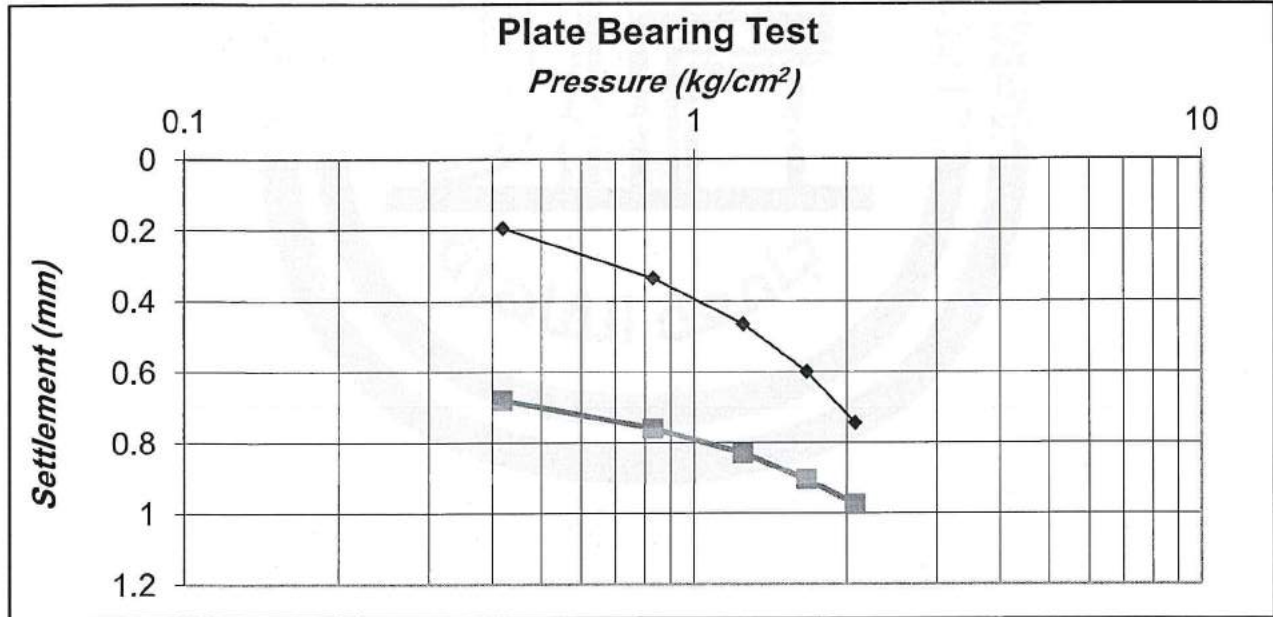
Test Place.: Sub-ballast

St. 432+700 : 432+725

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.03	10	0	0	0	9.43	9.38	0	0	0.61
20.000	1.186	0.420	9.840	9.800	0.190	0.200	0.195	9.370	9.300	0.660	0.700	0.680
40.000	2.346	0.830	9.710	9.650	0.320	0.350	0.335	9.300	9.210	0.730	0.790	0.760
60.000	3.532	1.250	9.590	9.510	0.440	0.490	0.465	9.230	9.140	0.800	0.860	0.830
80.000	4.719	1.670	9.480	9.350	0.550	0.650	0.600	9.150	9.070	0.880	0.930	0.905
100.000	5.878	2.080	9.320	9.220	0.710	0.780	0.745	9.090	8.990	0.940	1.010	0.975



Ev1	1392	Kg/cm ²
Ev2	2560	Kg/cm ²
Ev2/Ev1	1.839	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-006

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

Test Place.: Sub-ballast

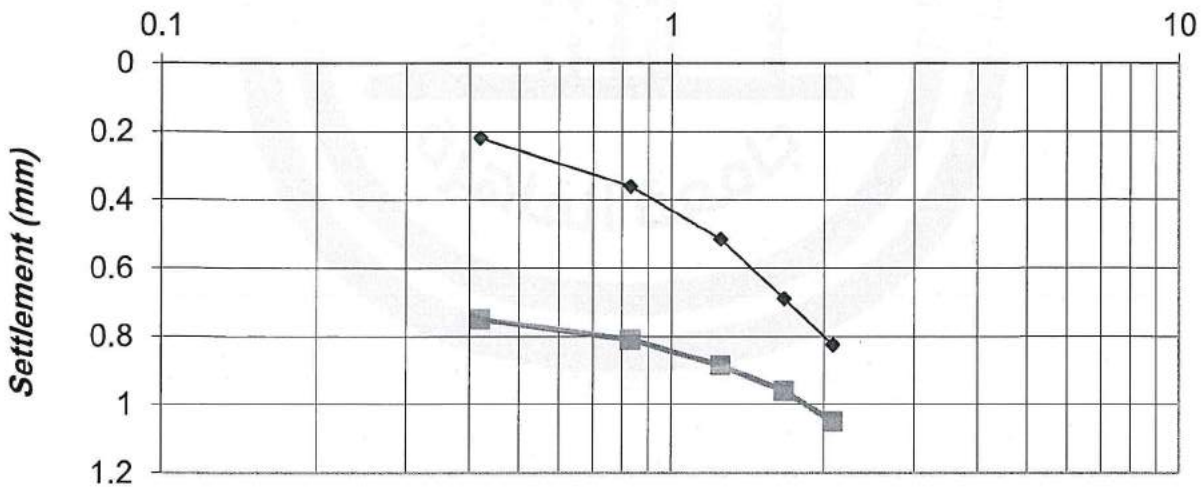
St. 432+725 : 432+750

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.02	10.01	0	0	0	9.39	9.28	0	0	0.68
20.000	1.186	0.420	9.820	9.770	0.200	0.240	0.220	9.320	9.210	0.700	0.800	0.750
40.000	2.346	0.830	9.670	9.640	0.350	0.370	0.360	9.250	9.160	0.770	0.850	0.810
60.000	3.532	1.250	9.520	9.480	0.500	0.530	0.515	9.180	9.080	0.840	0.930	0.885
80.000	4.719	1.670	9.350	9.300	0.670	0.710	0.690	9.100	9.010	0.920	1.000	0.960
100.000	5.878	2.080	9.230	9.150	0.790	0.860	0.825	9.010	8.920	1.010	1.090	1.050

Plate Bearing Test
Pressure (kg/cm²)



Ev1	1165 Kg/cm ²
Ev2	2494 Kg/cm ²
Ev2/Ev1	2.141

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-007

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

Test Place.: Sub-ballast

St. 432+750 : 432+775

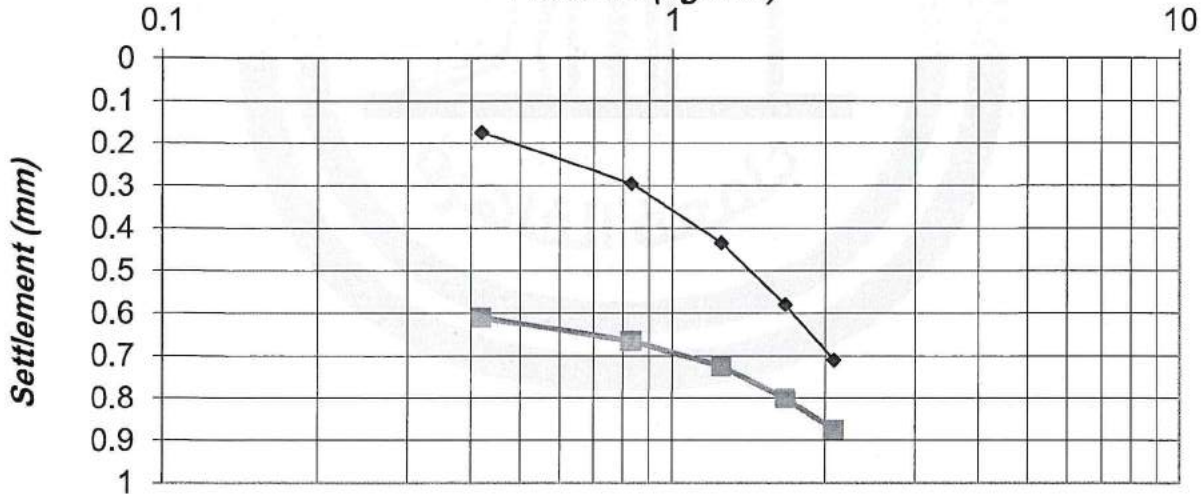
Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9.95	10.01	0	0	0	9.41	9.54	0	0	0.505
20.000	1.186	0.420	9.820	9.790	0.130	0.220	0.175	9.340	9.400	0.610	0.610	0.610
40.000	2.346	0.830	9.720	9.650	0.230	0.360	0.295	9.270	9.360	0.680	0.650	0.665
60.000	3.532	1.250	9.580	9.510	0.370	0.500	0.435	9.210	9.300	0.740	0.710	0.725
80.000	4.719	1.670	9.430	9.370	0.520	0.640	0.580	9.140	9.220	0.810	0.790	0.800
100.000	5.878	2.080	9.290	9.250	0.660	0.760	0.710	9.060	9.150	0.890	0.860	0.875

Plate Bearing Test

Pressure (kg/cm²)



Ev1 1339 Kg/cm²
Ev2 2788 Kg/cm²
Ev2/Ev1 2.082

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-009

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

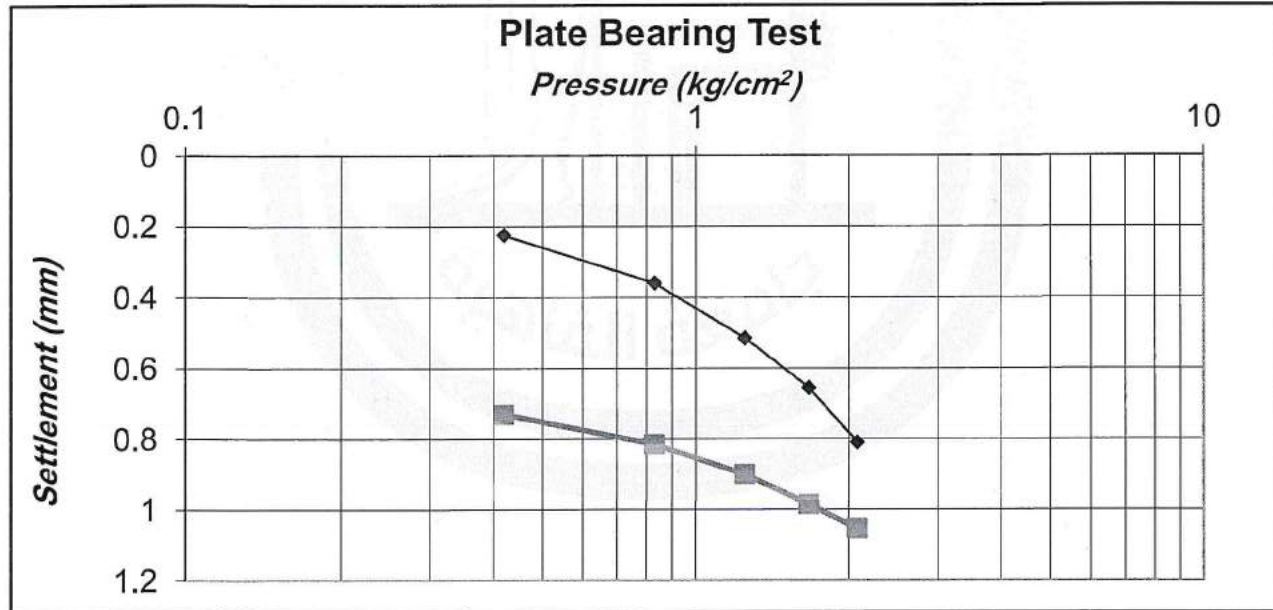
Test Place.: Sub-ballast

St. 432+800 : 432+825

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.02	10.01	0	0	0	9.47	9.3	0	0	0.63
20.000	1.186	0.420	9.830	9.750	0.190	0.260	0.225	9.360	9.210	0.660	0.800	0.730
40.000	2.346	0.830	9.700	9.610	0.320	0.400	0.360	9.290	9.110	0.730	0.900	0.815
60.000	3.532	1.250	9.550	9.450	0.470	0.560	0.515	9.210	9.020	0.810	0.990	0.900
80.000	4.719	1.670	9.420	9.300	0.600	0.710	0.655	9.120	8.940	0.900	1.070	0.985
100.000	5.878	2.080	9.270	9.140	0.750	0.870	0.810	9.030	8.890	0.990	1.120	1.055



Ev1	1271	Kg/cm ²
Ev2	2229	Kg/cm ²
Ev2/Ev1	1.754	

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-010

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023

Test Place.: Sub-ballast

St. 432+825 : 432+850

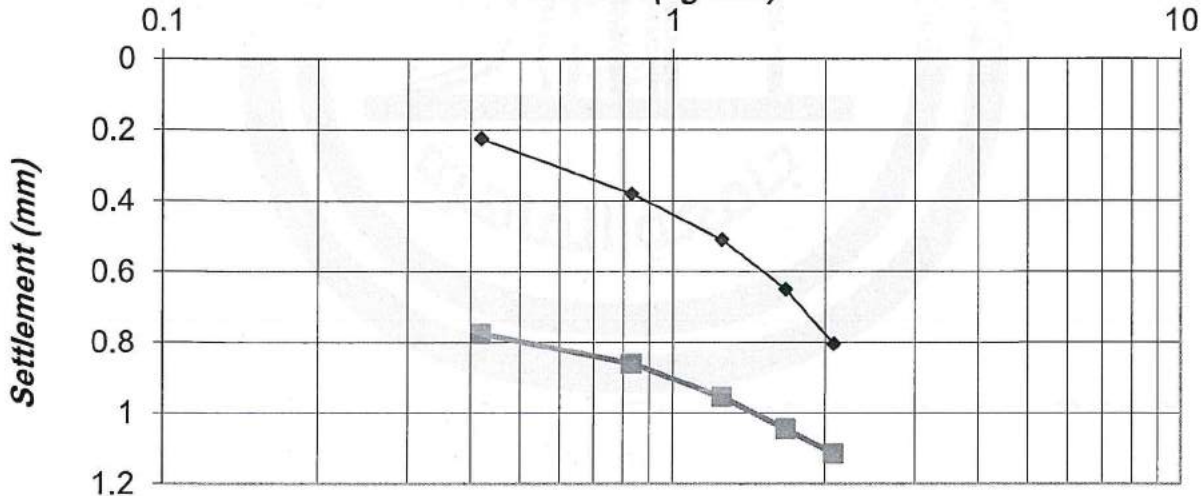
Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9.01	10	0	0	0	8.28	9.35	0	0	0.69
20.000	1.186	0.420	8.750	9.810	0.260	0.190	0.225	8.190	9.270	0.820	0.730	0.775
40.000	2.346	0.830	8.600	9.650	0.410	0.350	0.380	8.110	9.180	0.900	0.820	0.860
60.000	3.532	1.250	8.470	9.520	0.540	0.480	0.510	8.030	9.070	0.980	0.930	0.955
80.000	4.719	1.670	8.320	9.390	0.690	0.610	0.650	7.940	8.980	1.070	1.020	1.045
100.000	5.878	2.080	8.160	9.240	0.850	0.760	0.805	7.880	8.900	1.130	1.100	1.115

Plate Bearing Test

Pressure (kg/cm²)



Ev1 1349 Kg/cm²
Ev2 2075 Kg/cm²
Ev2/Ev1 1.538

Tested By



Approved




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Plate Load Test Results

Report No. 2023/M/2005-011

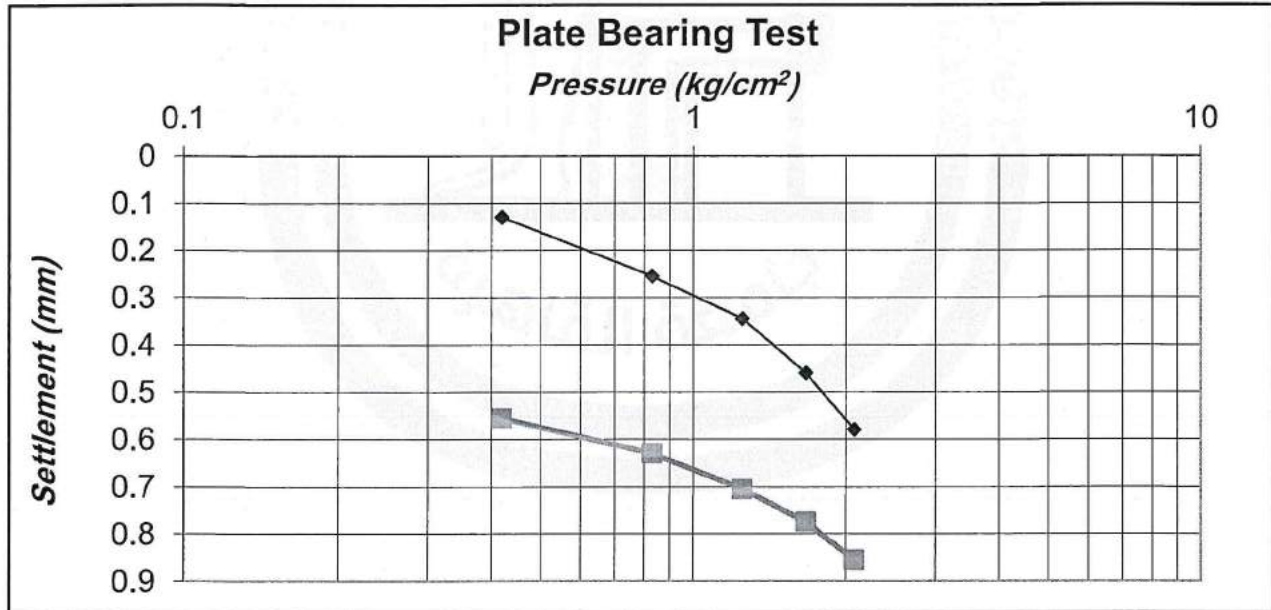
CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 4/7/2023
Test Place.: Sub-ballast
St. 432+850 : 432+875

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9.5	10	0	0	0	9.05	9.48	0	0	0.485
20.000	1.186	0.420	9.340	9.900	0.160	0.100	0.130	8.980	9.410	0.520	0.590	0.555
40.000	2.346	0.830	9.240	9.750	0.260	0.250	0.255	8.910	9.330	0.590	0.670	0.630
60.000	3.532	1.250	9.190	9.620	0.310	0.380	0.345	8.850	9.240	0.650	0.760	0.705
80.000	4.719	1.670	9.080	9.500	0.420	0.500	0.460	8.780	9.170	0.720	0.830	0.775
100.000	5.878	2.080	8.990	9.350	0.510	0.650	0.580	8.700	9.090	0.800	0.910	0.855



Ev1	1763	Kg/cm ²
Ev2	2547	Kg/cm ²
Ev2/Ev1	1.444	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-013

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 5/7/2023

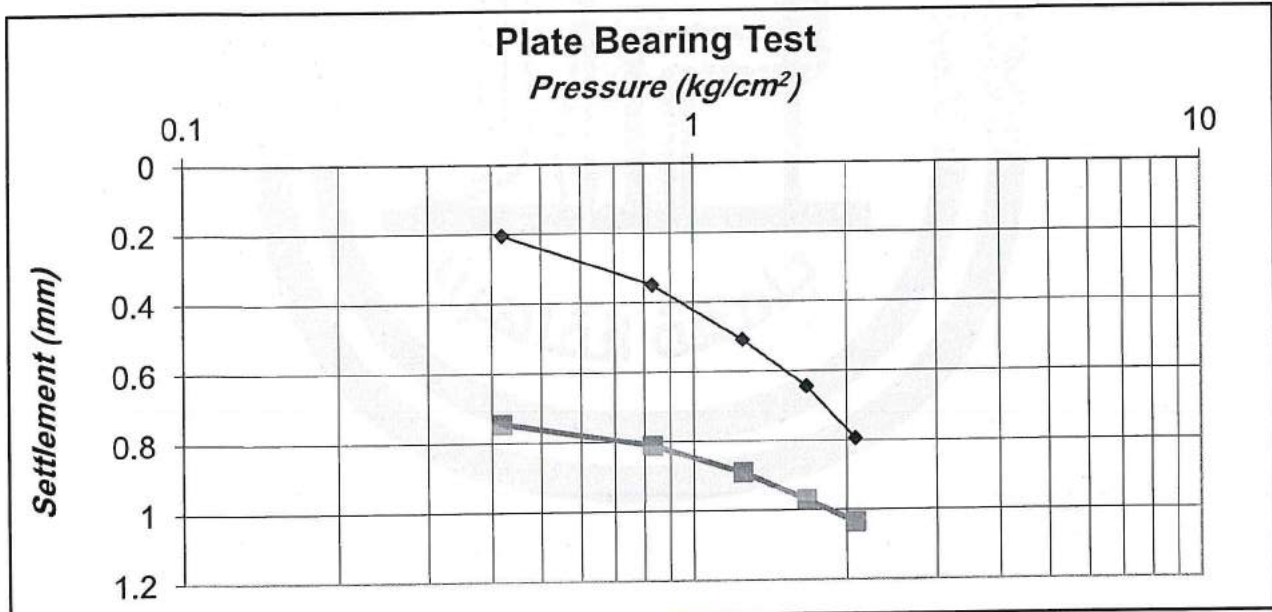
Test Place.: Sub-ballast

St. 432+900 : 432+925

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	7	10	0	0	0	6.32	9.15	0	0	0.765
20.000	1.186	0.420	6.790	9.800	0.210	0.200	0.205	6.240	9.270	0.760	0.730	0.745
40.000	2.346	0.830	6.640	9.660	0.360	0.340	0.350	6.180	9.200	0.820	0.800	0.810
60.000	3.532	1.250	6.510	9.470	0.490	0.530	0.510	6.110	9.110	0.890	0.890	0.890
80.000	4.719	1.670	6.360	9.350	0.640	0.650	0.645	6.030	9.030	0.970	0.970	0.970
100.000	5.878	2.080	6.230	9.180	0.770	0.820	0.795	5.980	8.950	1.020	1.050	1.035



Ev1	1266 Kg/cm ²
Ev2	2411 Kg/cm ²
Ev2/Ev1	1.904

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-014

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 5/7/2023
Test Place.: Sub-ballast
St. 432+925 : 432+950

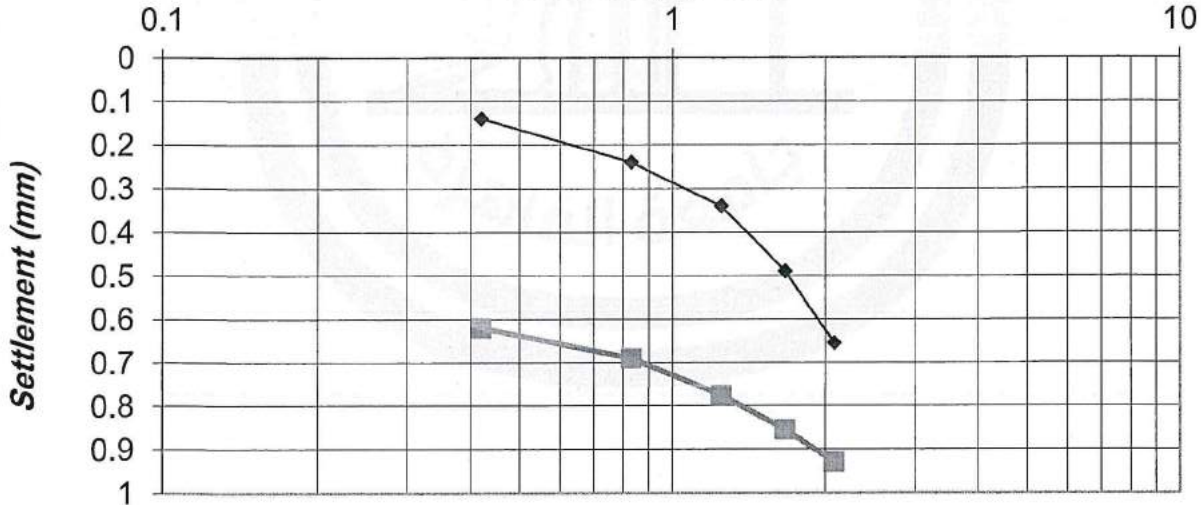
Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9.02	10	0	0	0	8.48	9.44	0	0	0.55
20.000	1.186	0.420	8.860	9.880	0.160	0.120	0.140	8.400	9.380	0.620	0.620	0.620
40.000	2.346	0.830	8.740	9.800	0.280	0.200	0.240	8.340	9.300	0.680	0.700	0.690
60.000	3.532	1.250	8.650	9.690	0.370	0.310	0.340	8.250	9.220	0.770	0.780	0.775
80.000	4.719	1.670	8.470	9.570	0.550	0.430	0.490	8.160	9.150	0.860	0.850	0.855
100.000	5.878	2.080	8.330	9.380	0.690	0.620	0.655	8.090	9.070	0.930	0.930	0.930

Plate Bearing Test

Pressure (kg/cm²)



Ev1	1482	Kg/cm ²
Ev2	2312	Kg/cm ²
Ev2/Ev1	1.560	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-015

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

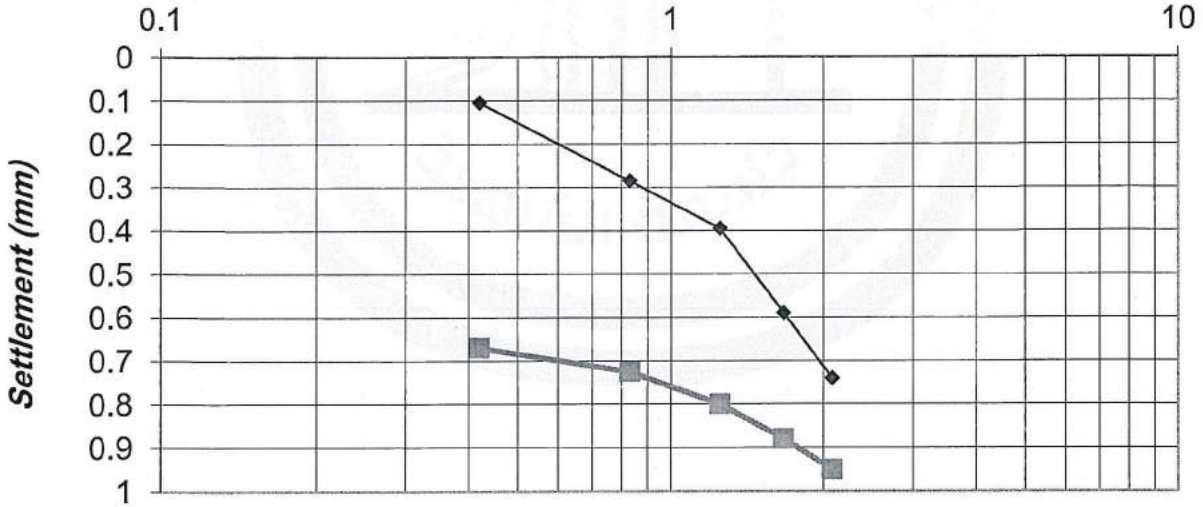
Date : 5/7/2023
Test Place.: Sub-ballast
St. 432+950 : 432+975

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	7	10	0	0	0	6.5	9.29	0	0	0.605
20.000	1.186	0.420	6.920	9.870	0.080	0.130	0.105	6.440	9.220	0.560	0.780	0.670
40.000	2.346	0.830	6.780	9.650	0.220	0.350	0.285	6.390	9.160	0.610	0.840	0.725
60.000	3.532	1.250	6.690	9.520	0.310	0.480	0.395	6.310	9.090	0.690	0.910	0.800
80.000	4.719	1.670	6.450	9.370	0.550	0.630	0.590	6.230	9.010	0.770	0.990	0.880
100.000	5.878	2.080	6.300	9.220	0.700	0.780	0.740	6.170	8.930	0.830	1.070	0.950

Plate Bearing Test
Pressure (kg/cm²)



Ev1	1207	Kg/cm ²
Ev2	2494	Kg/cm ²
Ev2/Ev1	2.066	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-016

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العظمين - فوكة

Date : 5/7/2023

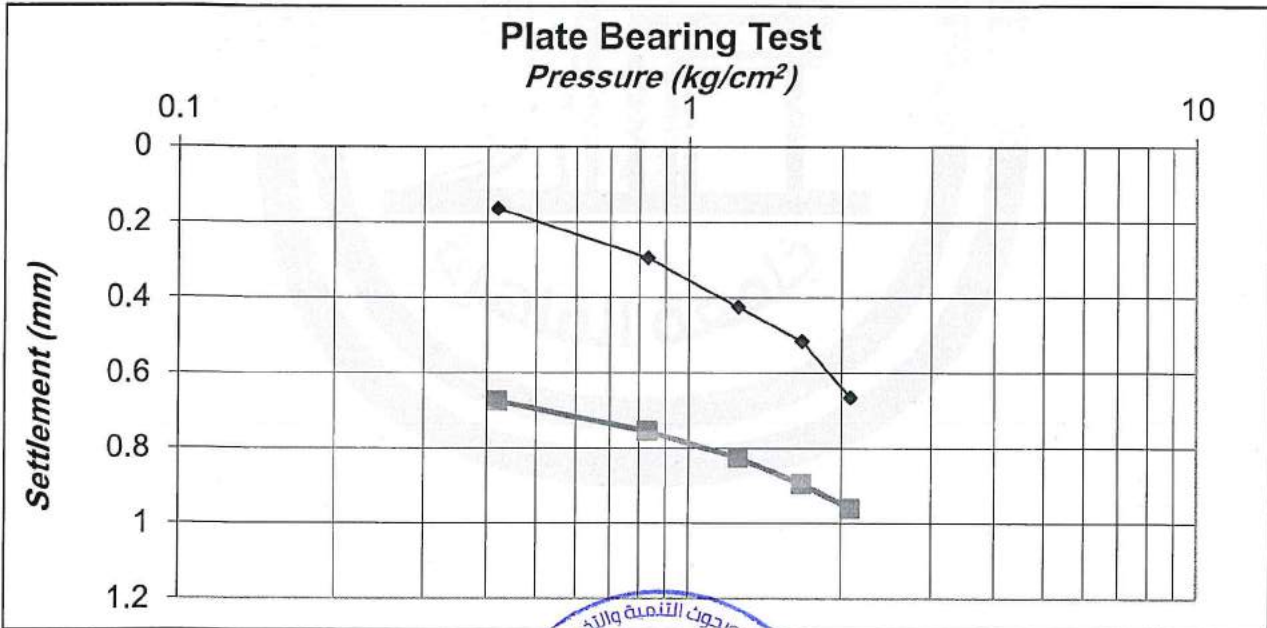
Test Place.: Sub-ballast

St. 432+975 : 433+000

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9.02	7.01	0	0	0	8.44	6.39	0	0	0.6
20.000	1.186	0.420	8.870	6.830	0.150	0.180	0.165	8.380	6.300	0.640	0.710	0.675
40.000	2.346	0.830	8.730	6.710	0.290	0.300	0.295	8.300	6.220	0.720	0.790	0.755
60.000	3.532	1.250	8.610	6.570	0.410	0.440	0.425	8.220	6.160	0.800	0.850	0.825
80.000	4.719	1.670	8.520	6.480	0.500	0.530	0.515	8.150	6.090	0.870	0.920	0.895
100.000	5.878	2.080	8.390	6.310	0.630	0.700	0.665	8.090	6.020	0.930	0.990	0.960



Ev1	1624 Kg/cm ²
Ev2	2650 Kg/cm ²
Ev2/Ev1	1.632

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-017

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 5/7/2023

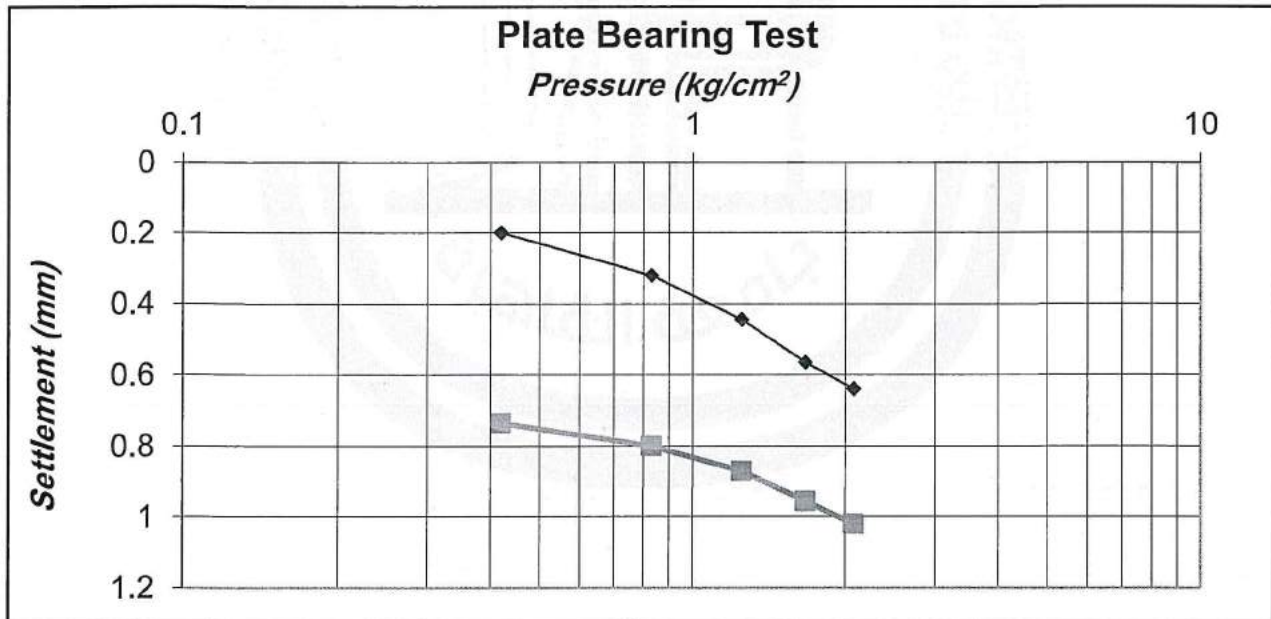
Test Place.: Sub-ballast

St. 433+000 : 433+025

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	8	9.5	0	0	0	7.42	8.75	0	0	0.665
20.000	1.186	0.420	7.860	9.240	0.140	0.260	0.200	7.370	8.660	0.630	0.840	0.735
40.000	2.346	0.830	7.800	9.060	0.200	0.440	0.320	7.300	8.600	0.700	0.900	0.800
60.000	3.532	1.250	7.670	8.940	0.330	0.560	0.445	7.230	8.530	0.770	0.970	0.870
80.000	4.719	1.670	7.540	8.830	0.460	0.670	0.565	7.150	8.440	0.850	1.060	0.955
100.000	5.878	2.080	7.470	8.750	0.530	0.750	0.640	7.090	8.370	0.910	1.130	1.020



Ev1	1577 Kg/cm ²
Ev2	2478 Kg/cm ²
Ev2/Ev1	1.571

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-018

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

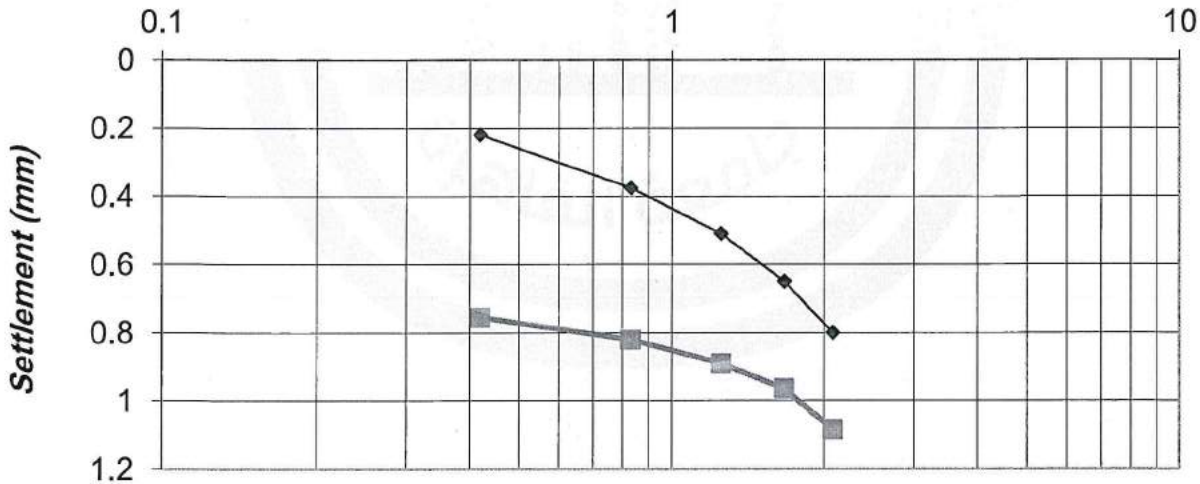
Date : 5/7/2023
Test Place.: Sub-ballast
St. 433+025 : 433+050

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	10	0	0	0	9.32	9.32	0	0	0.68
20.000	1.186	0.420	9.760	9.800	0.240	0.200	0.220	9.260	9.230	0.740	0.770	0.755
40.000	2.346	0.830	9.610	9.640	0.390	0.360	0.375	9.190	9.170	0.810	0.830	0.820
60.000	3.532	1.250	9.470	9.510	0.530	0.490	0.510	9.120	9.100	0.880	0.900	0.890
80.000	4.719	1.670	9.340	9.360	0.660	0.640	0.650	9.030	9.040	0.970	0.960	0.965
100.000	5.878	2.080	9.180	9.220	0.820	0.780	0.800	8.950	8.880	1.050	1.120	1.085

Plate Bearing Test
Pressure (kg/cm²)



Ev1	1333 Kg/cm ²
Ev2	2468 Kg/cm ²
Ev2/Ev1	1.851

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-019

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 5/7/2023

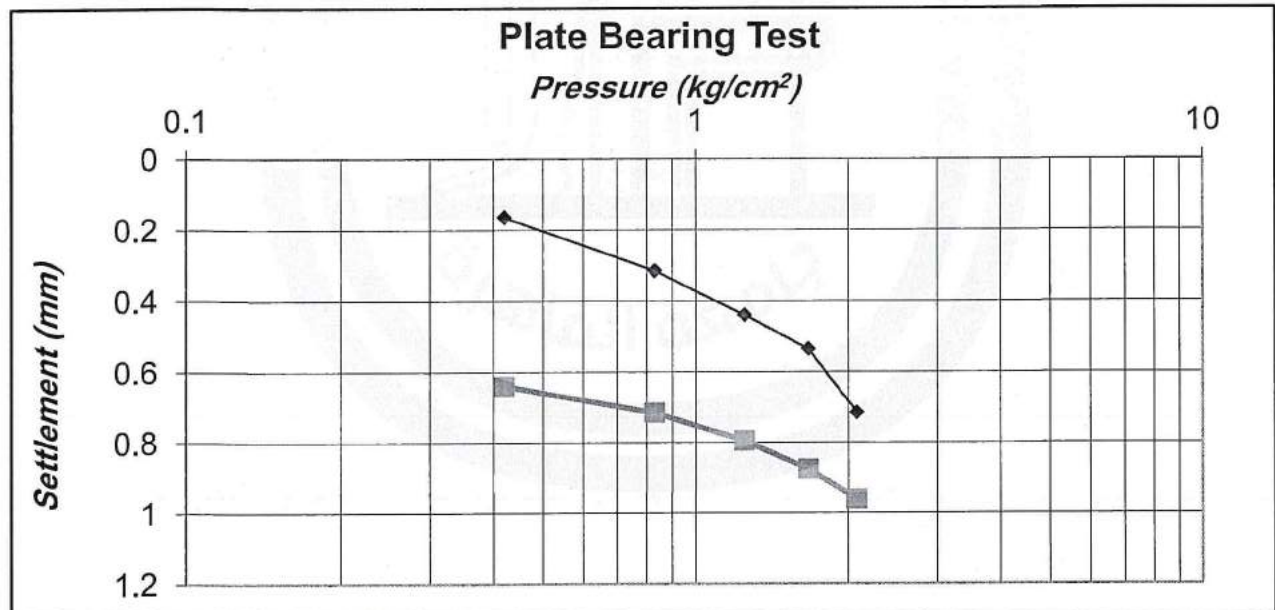
Test Place.: Sub-ballast

St. 433+050 : 433+075

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	8.03	9	0	0	0	7.36	8.57	0	0	0.55
20.000	1.186	0.420	7.790	8.910	0.240	0.090	0.165	7.250	8.500	0.780	0.500	0.640
40.000	2.346	0.830	7.620	8.780	0.410	0.220	0.315	7.180	8.420	0.850	0.580	0.715
60.000	3.532	1.250	7.460	8.690	0.570	0.310	0.440	7.110	8.330	0.920	0.670	0.795
80.000	4.719	1.670	7.350	8.610	0.680	0.390	0.535	7.030	8.250	1.000	0.750	0.875
100.000	5.878	2.080	7.190	8.410	0.840	0.590	0.715	6.940	8.170	1.090	0.830	0.960



Ev1	1566 Kg/cm ²
Ev2	2336 Kg/cm ²
Ev2/Ev1	1.491

Tested By



Approved

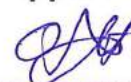


Plate Load Test Results

Report No. 2023/M/2005-020

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 5/7/2023

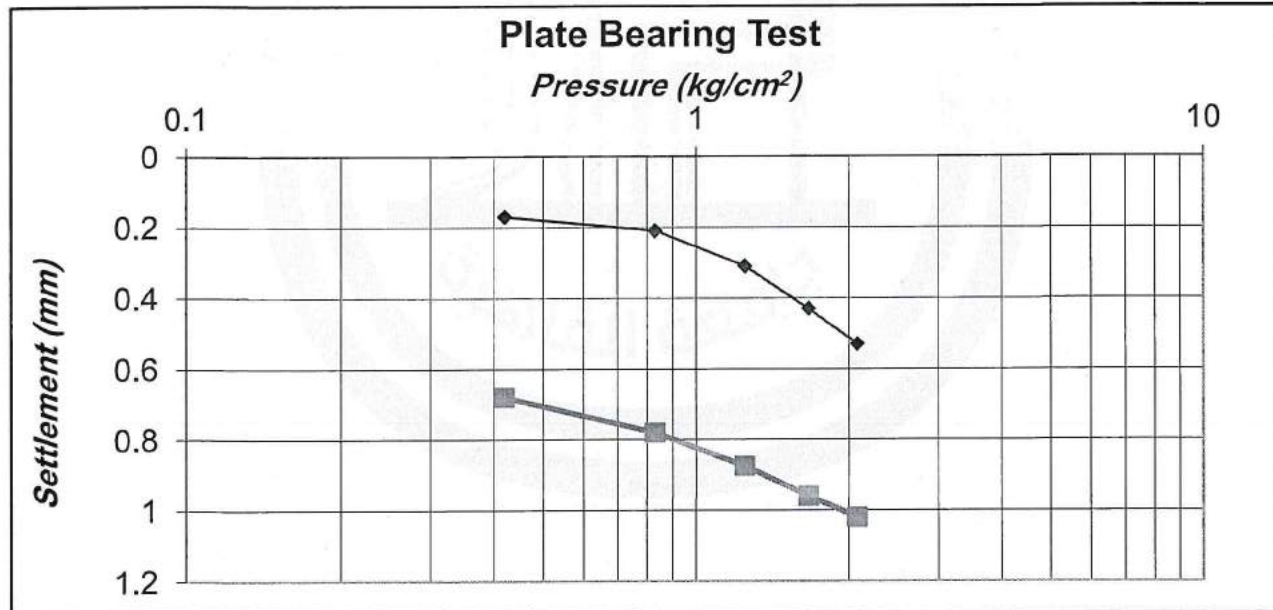
Test Place.: Sub-ballast

St. 433+075 : 433+100

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.6	0	0	0	9.45	8.95	0	0	0.6
20.000	1.186	0.420	9.830	9.430	0.170	0.170	0.170	9.380	8.860	0.620	0.740	0.680
40.000	2.346	0.830	9.700	9.480	0.300	0.120	0.210	9.300	8.740	0.700	0.860	0.780
60.000	3.532	1.250	9.580	9.400	0.420	0.200	0.310	9.220	8.630	0.780	0.970	0.875
80.000	4.719	1.670	9.450	9.290	0.550	0.310	0.430	9.140	8.540	0.860	1.060	0.960
100.000	5.878	2.080	9.360	9.180	0.640	0.420	0.530	9.080	8.480	0.920	1.120	1.020



Ev1	1814	Kg/cm ²
Ev2	2111	Kg/cm ²
Ev2/Ev1	1.164	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-021

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

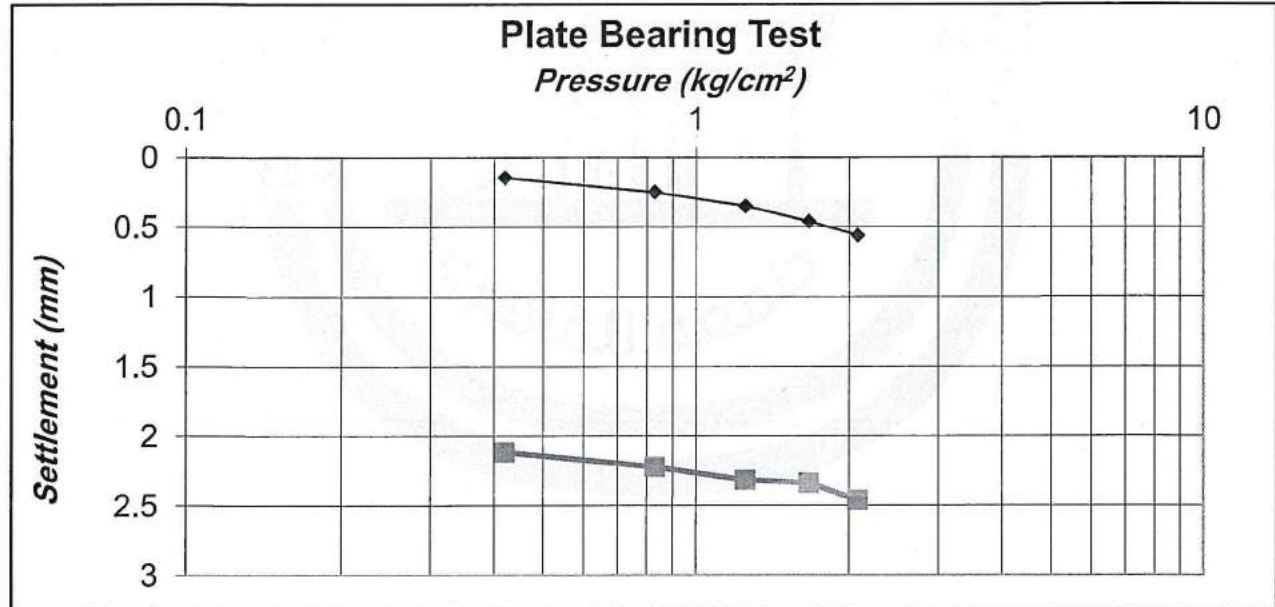
Test Place.: Sub-ballast

St. 433+100 : 433+125

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.35	0	0	0	8	7.44	0	0	1.955
20.000	1.186	0.420	9.800	9.260	0.200	0.090	0.145	7.780	7.340	2.220	2.010	2.115
40.000	2.346	0.830	9.650	9.200	0.350	0.150	0.250	7.660	7.250	2.340	2.100	2.220
60.000	3.532	1.250	9.530	9.120	0.470	0.230	0.350	7.570	7.150	2.430	2.200	2.315
80.000	4.719	1.670	9.420	9.010	0.580	0.340	0.460	7.650	7.030	2.350	2.320	2.335
100.000	5.878	2.080	9.300	8.930	0.700	0.420	0.560	7.480	6.950	2.520	2.400	2.460



Ev1	1786	Kg/cm ²
Ev2	2780	Kg/cm ²
Ev2/Ev1	1.557	

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-022

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

Test Place.: Sub-ballast

St. 433+125 : 433+150

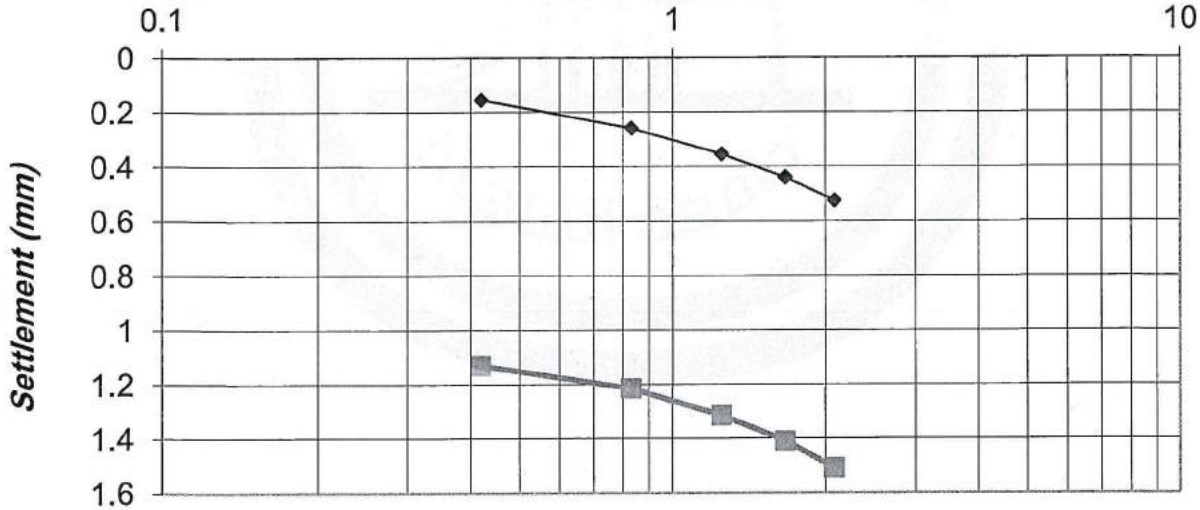
Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.42	0	0	0	9	8.39	0	0	1.015
20.000	1.186	0.420	9.780	9.330	0.220	0.090	0.155	8.860	8.300	1.140	1.120	1.130
40.000	2.346	0.830	9.650	9.250	0.350	0.170	0.260	8.770	8.220	1.230	1.200	1.215
60.000	3.532	1.250	9.540	9.170	0.460	0.250	0.355	8.650	8.140	1.350	1.280	1.315
80.000	4.719	1.670	9.430	9.110	0.570	0.310	0.440	8.540	8.060	1.460	1.360	1.410
100.000	5.878	2.080	9.340	9.030	0.660	0.390	0.525	8.420	7.980	1.580	1.440	1.510

Plate Bearing Test

Pressure (kg/cm²)



Ev1	2054	Kg/cm ²
Ev2	1934	Kg/cm ²
Ev2/Ev1	0.941	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-023

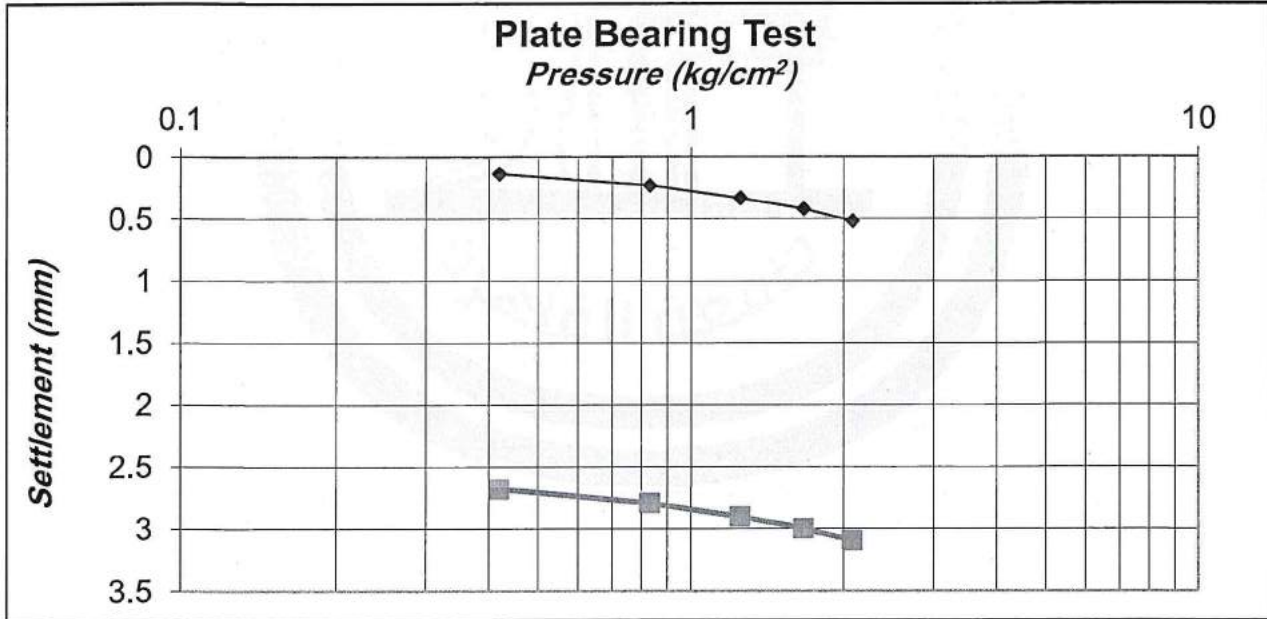
CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023
Test Place.: Sub-ballast
St. 433+150 : 433+175

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.39	0	0	0	7.44	6.83	0	0	2.56
20.000	1.186	0.420	9.810	9.310	0.190	0.080	0.135	7.300	6.730	2.700	2.660	2.680
40.000	2.346	0.830	9.700	9.230	0.300	0.160	0.230	7.150	6.650	2.850	2.740	2.795
60.000	3.532	1.250	9.580	9.140	0.420	0.250	0.335	6.980	6.600	3.020	2.790	2.905
80.000	4.719	1.670	9.460	9.090	0.540	0.300	0.420	6.860	6.530	3.140	2.860	3.000
100.000	5.878	2.080	9.340	9.010	0.660	0.380	0.520	6.740	6.460	3.260	2.930	3.095



Ev1	1958	Kg/cm ²
Ev2	1813	Kg/cm ²
Ev2/Ev1	0.926	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-024

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

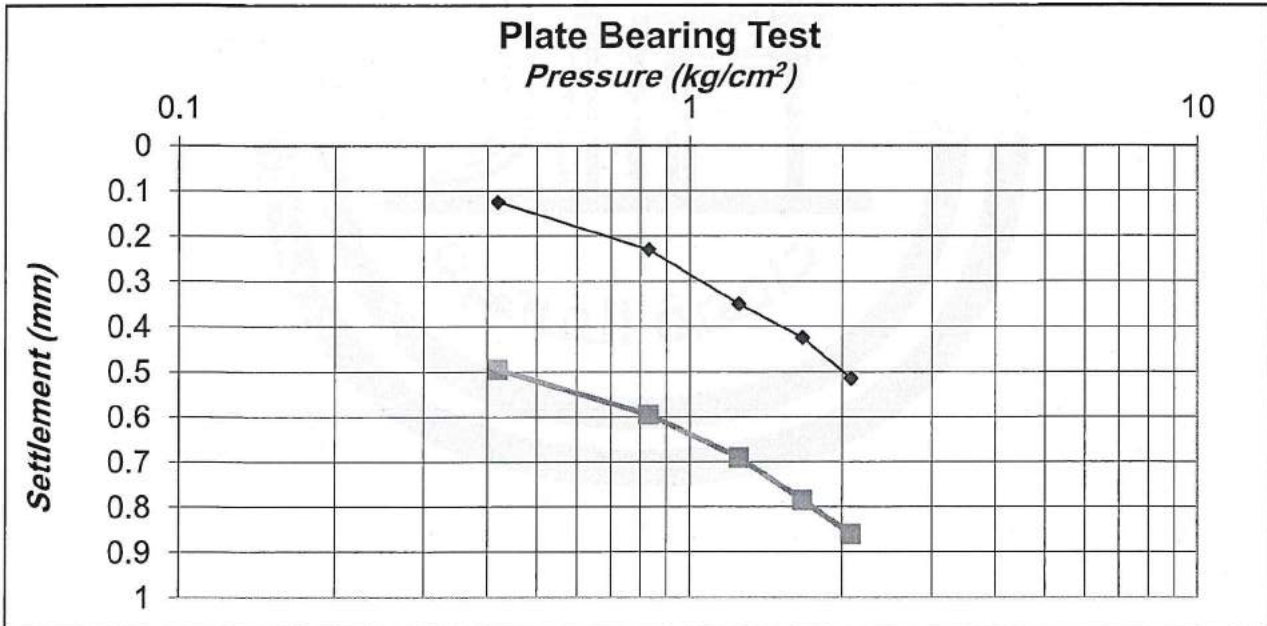
Test Place.: Sub-ballast

St. 433+175 : 433+200

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.46	0	0	0	9.6	9.13	0	0	0.365
20.000	1.186	0.420	9.830	9.380	0.170	0.080	0.125	9.430	9.040	0.570	0.420	0.495
40.000	2.346	0.830	9.700	9.300	0.300	0.160	0.230	9.320	8.950	0.680	0.510	0.595
60.000	3.532	1.250	9.540	9.220	0.460	0.240	0.350	9.220	8.860	0.780	0.600	0.690
80.000	4.719	1.670	9.460	9.150	0.540	0.310	0.425	9.090	8.800	0.910	0.660	0.785
100.000	5.878	2.080	9.350	9.080	0.650	0.380	0.515	9.010	8.730	0.990	0.730	0.860



Ev1	1914 Kg/cm ²
Ev2	1991 Kg/cm ²
Ev2/Ev1	1.040

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-025

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

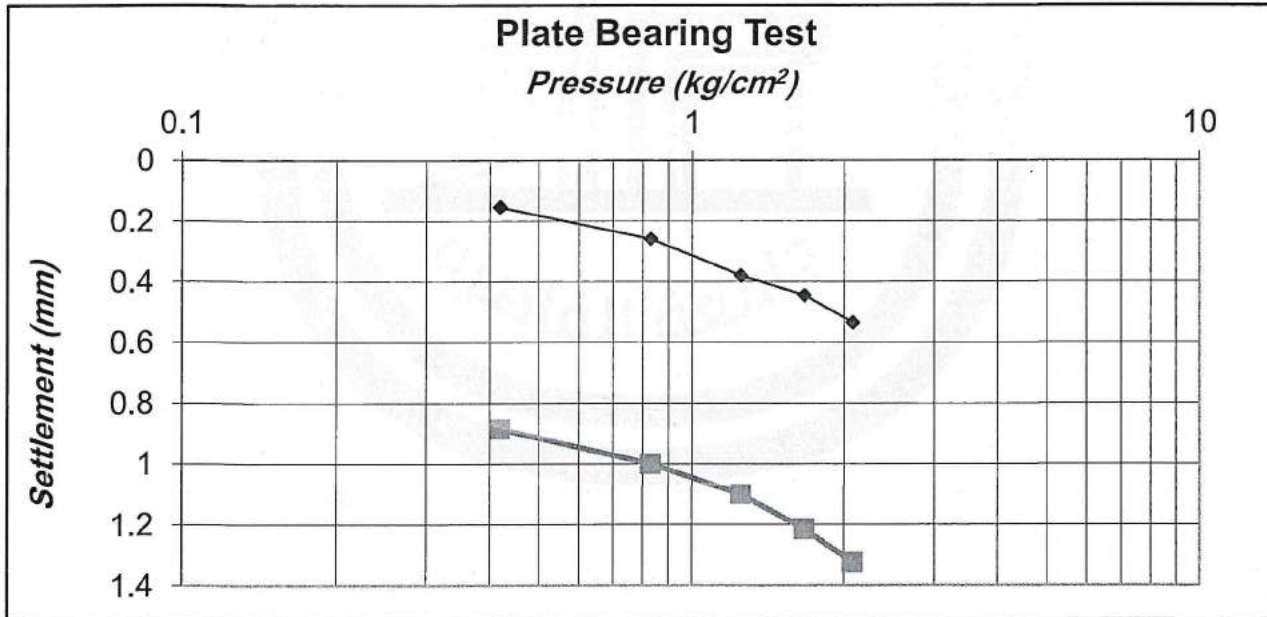
Test Place.: Sub-ballast

St. 433+200 : 433+225

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.4	9.8	0	0	0	9.7	9.04	0	0	0.73
20.000	1.186	0.420	10.180	9.710	0.220	0.090	0.155	9.480	8.950	0.920	0.850	0.885
40.000	2.346	0.830	10.050	9.630	0.350	0.170	0.260	9.350	8.850	1.050	0.950	1.000
60.000	3.532	1.250	9.900	9.540	0.500	0.260	0.380	9.240	8.760	1.160	1.040	1.100
80.000	4.719	1.670	9.860	9.450	0.540	0.350	0.445	9.070	8.700	1.330	1.100	1.215
100.000	5.878	2.080	9.750	9.380	0.650	0.420	0.535	8.920	8.630	1.480	1.170	1.325



Ev1	1999	Kg/cm ²
Ev2	1723	Kg/cm ²
Ev2/Ev1	0.862	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-026

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

Test Place.: Sub-ballast

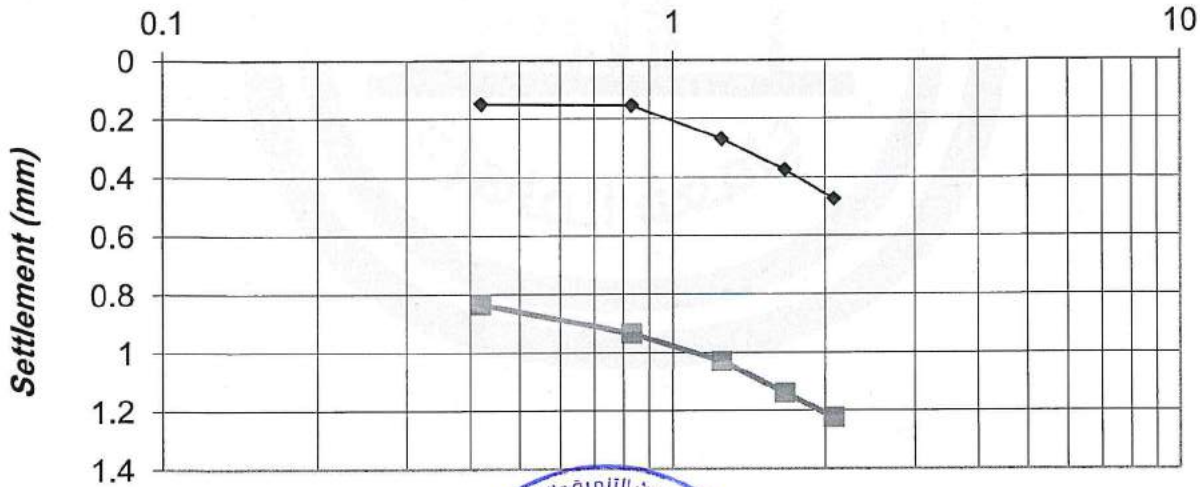
St. 433+225 : 433+250

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.7	10.07	0	0	0	10	9.35	0	0	0.71
20.000	1.186	0.420	10.530	9.940	0.170	0.130	0.150	9.840	9.260	0.860	0.810	0.835
40.000	2.346	0.830	10.600	9.860	0.100	0.210	0.155	9.710	9.190	0.990	0.880	0.935
60.000	3.532	1.250	10.460	9.770	0.240	0.300	0.270	9.600	9.110	1.100	0.960	1.030
80.000	4.719	1.670	10.350	9.670	0.350	0.400	0.375	9.450	9.040	1.250	1.030	1.140
100.000	5.878	2.080	10.220	9.600	0.480	0.470	0.475	9.370	8.950	1.330	1.120	1.225

Plate Bearing Test Pressure (kg/cm²)



Ev1 1870 Kg/cm²
Ev2 1852 Kg/cm²
Ev2/Ev1 0.990

Tested By



Approved





Plate Load Test Results

Report No. 2023/M/2005-027

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

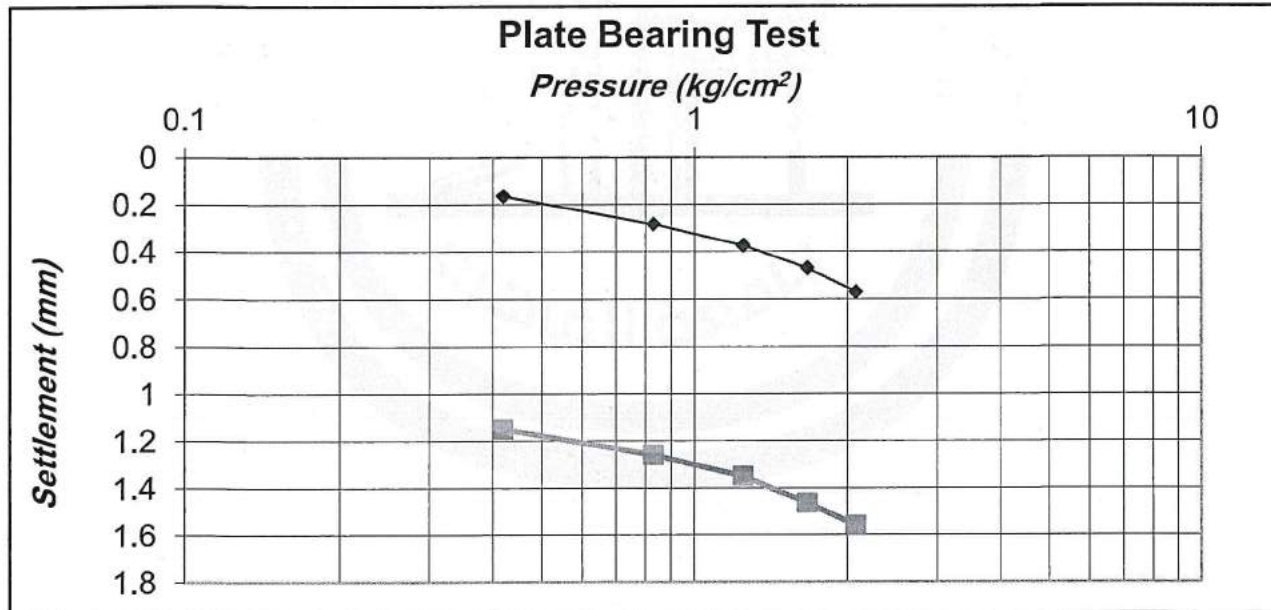
Test Place.: Sub-ballast

St. 433+250 : 433+275

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9	8.33	0	0	0	8	7.34	0	0	0.995
20.000	1.186	0.420	8.760	8.240	0.240	0.090	0.165	7.780	7.250	1.220	1.080	1.150
40.000	2.346	0.830	8.610	8.150	0.390	0.180	0.285	7.650	7.160	1.350	1.170	1.260
60.000	3.532	1.250	8.500	8.080	0.500	0.250	0.375	7.550	7.080	1.450	1.250	1.350
80.000	4.719	1.670	8.380	8.010	0.620	0.320	0.470	7.430	6.970	1.570	1.360	1.465
100.000	5.878	2.080	8.260	7.930	0.740	0.400	0.570	7.310	6.900	1.690	1.430	1.560



Ev1	1955	Kg/cm ²
Ev2	1821	Kg/cm ²
Ev2/Ev1	0.932	

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-028

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

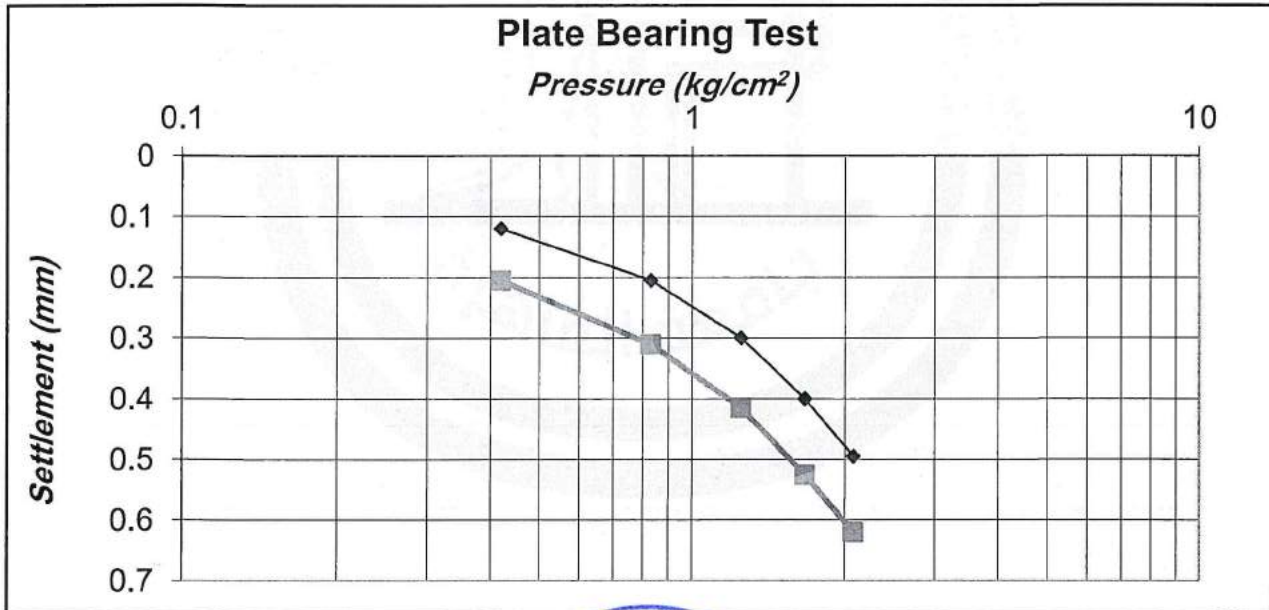
Test Place.: Sub-ballast

St. 433+275 : 433+300

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.45	0	0	0	9.9	9.4	0	0	0.075
20.000	1.186	0.420	9.830	9.380	0.170	0.070	0.120	9.730	9.310	0.270	0.140	0.205
40.000	2.346	0.830	9.740	9.300	0.260	0.150	0.205	9.600	9.230	0.400	0.220	0.310
60.000	3.532	1.250	9.630	9.220	0.370	0.230	0.300	9.480	9.140	0.520	0.310	0.415
80.000	4.719	1.670	9.500	9.150	0.500	0.300	0.400	9.350	9.050	0.650	0.400	0.525
100.000	5.878	2.080	9.390	9.070	0.610	0.380	0.495	9.240	8.970	0.760	0.480	0.620



Ev1	1942 Kg/cm ²
Ev2	1758 Kg/cm ²
Ev2/Ev1	0.905

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-029

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

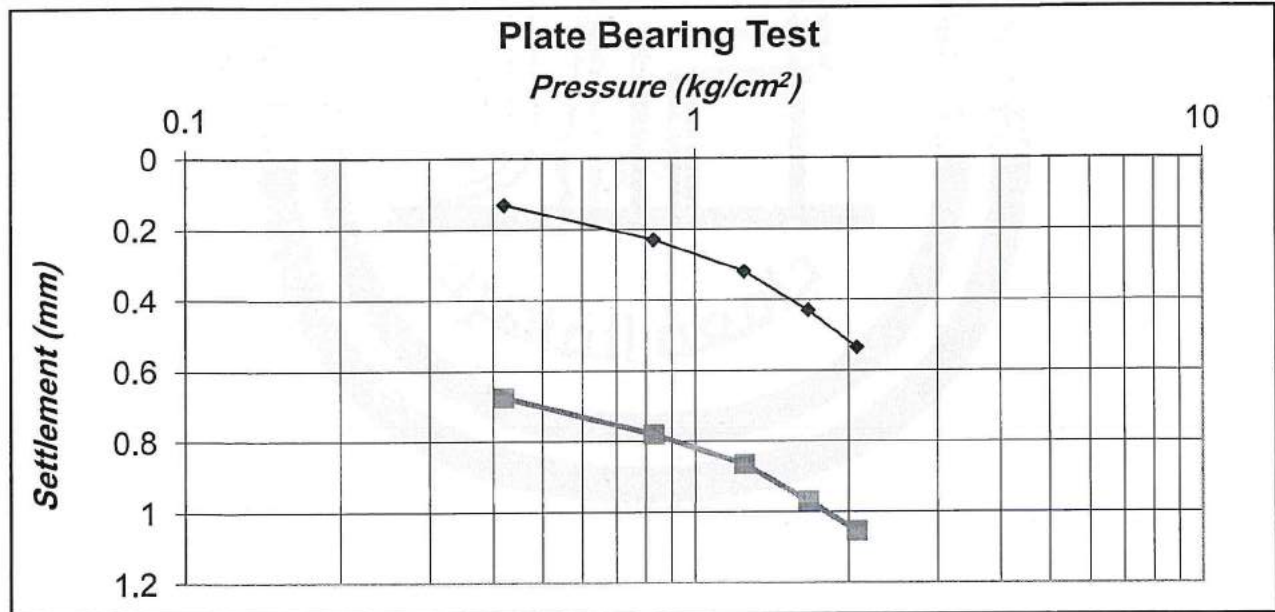
Test Place.: Sub-ballast

St. 433+300 : 433+325

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10.6	9.97	0	0	0	10	9.47	0	0	0.55
20.000	1.186	0.420	10.430	9.880	0.170	0.090	0.130	9.840	9.380	0.760	0.590	0.675
40.000	2.346	0.830	10.310	9.800	0.290	0.170	0.230	9.710	9.300	0.890	0.670	0.780
60.000	3.532	1.250	10.200	9.730	0.400	0.240	0.320	9.600	9.240	1.000	0.730	0.865
80.000	4.719	1.670	10.060	9.650	0.540	0.320	0.430	9.460	9.170	1.140	0.800	0.970
100.000	5.878	2.080	9.940	9.560	0.660	0.410	0.535	9.370	9.090	1.230	0.880	1.055



Ev1	1860	Kg/cm ²
Ev2	1964	Kg/cm ²
Ev2/Ev1	1.056	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-030

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

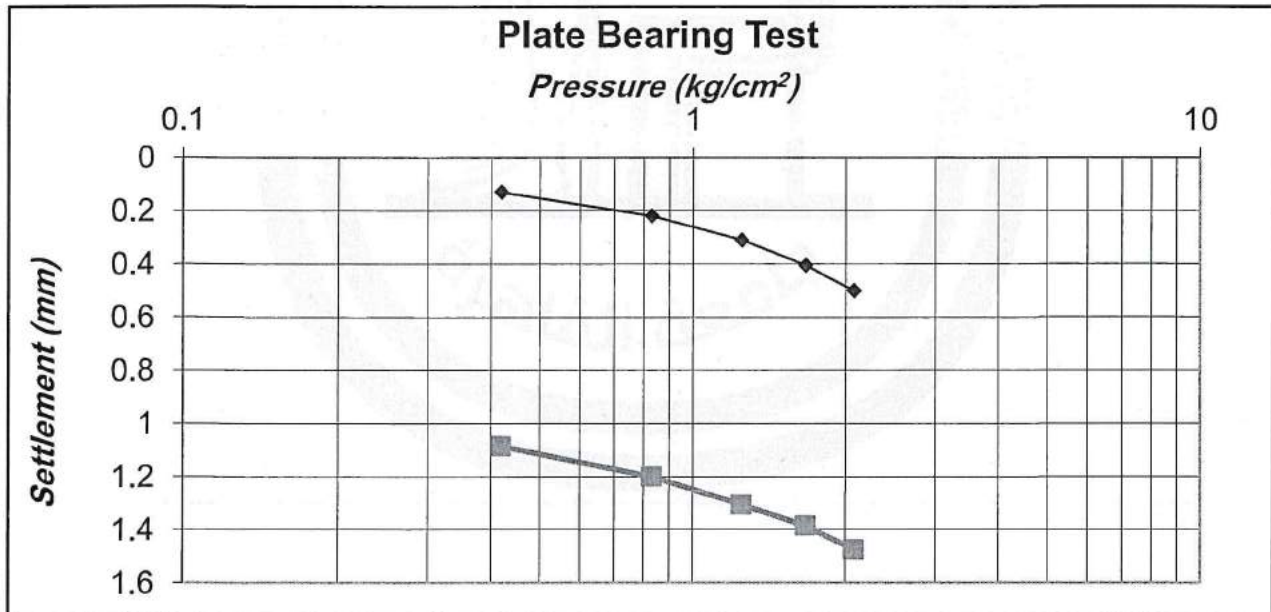
Test Place.: Sub-ballast

St. 433+325 : 433+350

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	8	7.4	0	0	0	7	6.47	0	0	0.965
20.000	1.186	0.420	7.810	7.330	0.190	0.070	0.130	6.850	6.380	1.150	1.020	1.085
40.000	2.346	0.830	7.700	7.260	0.300	0.140	0.220	6.710	6.290	1.290	1.110	1.200
60.000	3.532	1.250	7.590	7.190	0.410	0.210	0.310	6.580	6.210	1.420	1.190	1.305
80.000	4.719	1.670	7.480	7.110	0.520	0.290	0.405	6.490	6.140	1.510	1.260	1.385
100.000	5.878	2.080	7.370	7.030	0.630	0.370	0.500	6.380	6.070	1.620	1.330	1.475



Ev1	2020	Kg/cm ²
Ev2	1981	Kg/cm ²
Ev2/Ev1	0.981	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-031

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

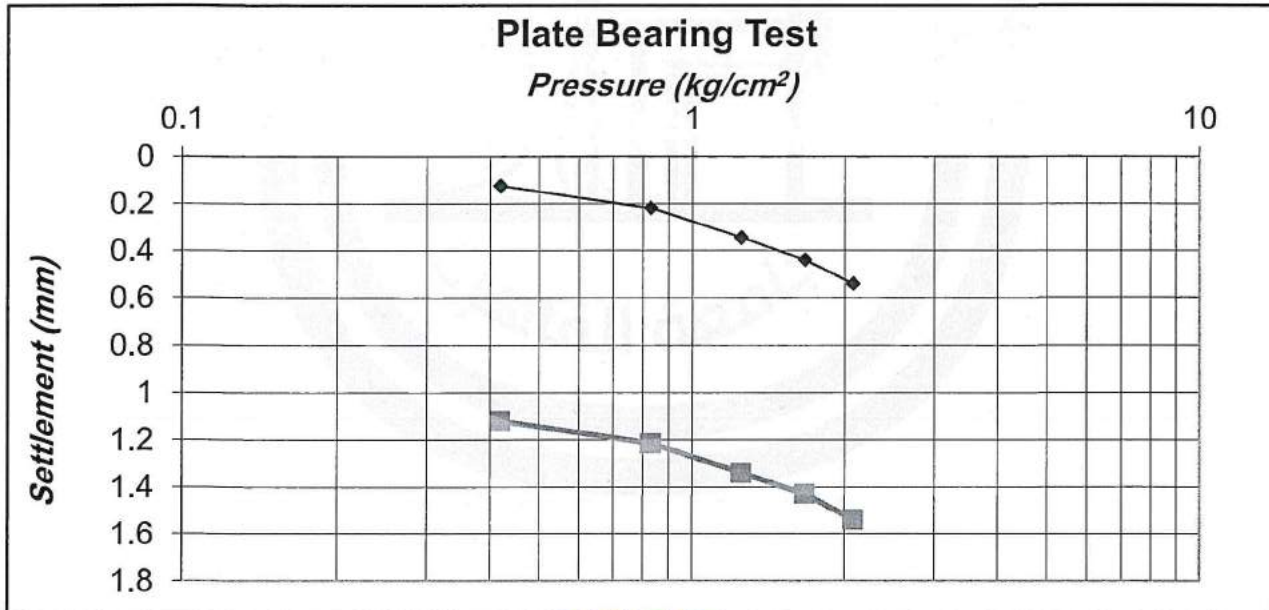
Test Place.: Sub-ballast

St. 433+350 : 433+375

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9	8.48	0	0	0	8	7.49	0	0	0.995
20.000	1.186	0.420	8.830	8.400	0.170	0.080	0.125	7.840	7.400	1.160	1.080	1.120
40.000	2.346	0.830	8.710	8.330	0.290	0.150	0.220	7.720	7.330	1.280	1.150	1.215
60.000	3.532	1.250	8.540	8.250	0.460	0.230	0.345	7.550	7.250	1.450	1.230	1.340
80.000	4.719	1.670	8.420	8.180	0.580	0.300	0.440	7.430	7.190	1.570	1.290	1.430
100.000	5.878	2.080	8.290	8.110	0.710	0.370	0.540	7.300	7.100	1.700	1.380	1.540



Ev1	1732	Kg/cm ²
Ev2	1752	Kg/cm ²
Ev2/Ev1	1.012	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-032

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

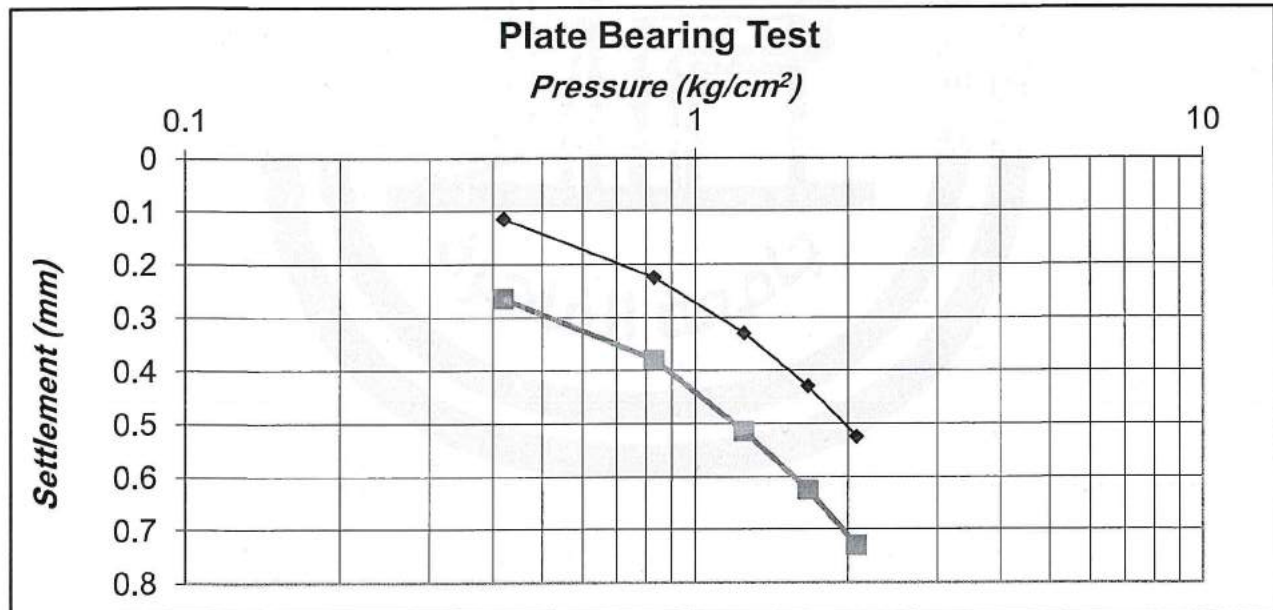
Test Place.: Sub-ballast

St. 433+375 : 433+400

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.53	0	0	0	10	9.33	0	0	0.1
20.000	1.186	0.420	9.850	9.450	0.150	0.080	0.115	9.750	9.250	0.250	0.280	0.265
40.000	2.346	0.830	9.730	9.350	0.270	0.180	0.225	9.600	9.170	0.400	0.360	0.380
60.000	3.532	1.250	9.610	9.260	0.390	0.270	0.330	9.490	9.010	0.510	0.520	0.515
80.000	4.719	1.670	9.520	9.150	0.480	0.380	0.430	9.340	8.940	0.660	0.590	0.625
100.000	5.878	2.080	9.390	9.090	0.610	0.440	0.525	9.160	8.910	0.840	0.620	0.730



Ev1	1821	Kg/cm ²
Ev2	1551	Kg/cm ²
Ev2/Ev1	0.852	

Tested By



Approved

[Signature]



Plate Load Test Results

Report No. 2023/M/2005-033

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

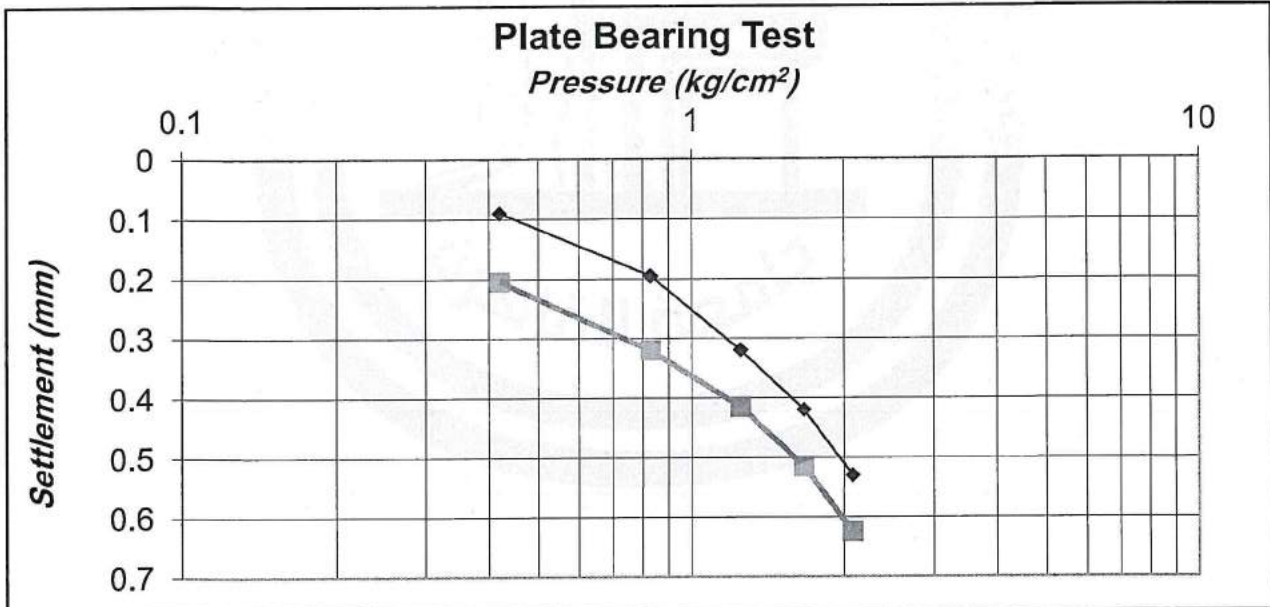
Test Place.: Sub-ballast

St. 433+400 : 433+425

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.54	0	0	0	10	9.42	0	0	0.06
20.000	1.186	0.420	9.910	9.450	0.090	0.090	0.090	9.800	9.330	0.200	0.210	0.205
40.000	2.346	0.830	9.800	9.350	0.200	0.190	0.195	9.650	9.250	0.350	0.290	0.320
60.000	3.532	1.250	9.630	9.270	0.370	0.270	0.320	9.530	9.180	0.470	0.360	0.415
80.000	4.719	1.670	9.500	9.200	0.500	0.340	0.420	9.410	9.100	0.590	0.440	0.515
100.000	5.878	2.080	9.350	9.130	0.650	0.410	0.530	9.280	9.010	0.720	0.530	0.625



Ev1	1673	Kg/cm ²
Ev2	1866	Kg/cm ²
Ev2/Ev1	1.116	

Tested By



Approved

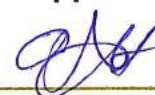



Plate Load Test Results

Report No. 2023/M/2005-034

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

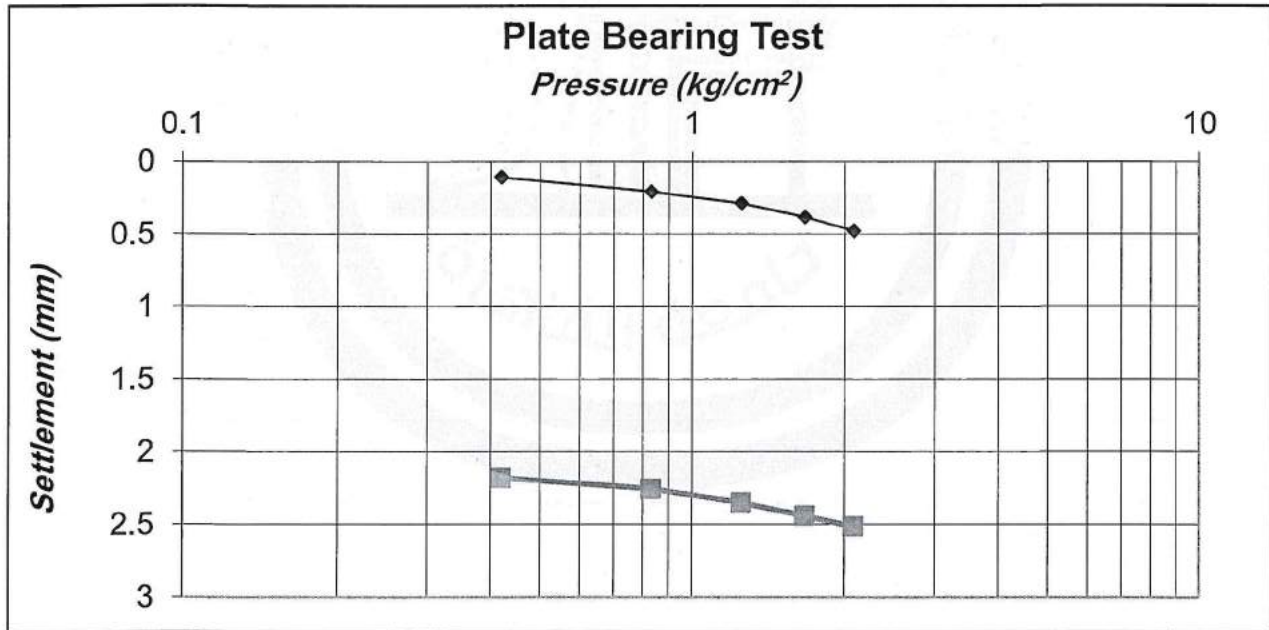
Test Place.: Sub-ballast

St. 433+425 : 433+450

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.46	0	0	0	8	7.35	0	0	2.055
20.000	1.186	0.420	9.860	9.380	0.140	0.080	0.110	7.840	7.260	2.160	2.200	2.180
40.000	2.346	0.830	9.740	9.300	0.260	0.160	0.210	7.750	7.200	2.250	2.260	2.255
60.000	3.532	1.250	9.650	9.230	0.350	0.230	0.290	7.620	7.140	2.380	2.320	2.350
80.000	4.719	1.670	9.540	9.150	0.460	0.310	0.385	7.500	7.080	2.500	2.380	2.440
100.000	5.878	2.080	9.420	9.080	0.580	0.380	0.480	7.410	7.020	2.590	2.440	2.515



Ev1	2093	Kg/cm ²
Ev2	2086	Kg/cm ²
Ev2/Ev1	0.997	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-035

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 6/7/2023

Test Place.: Sub-ballast

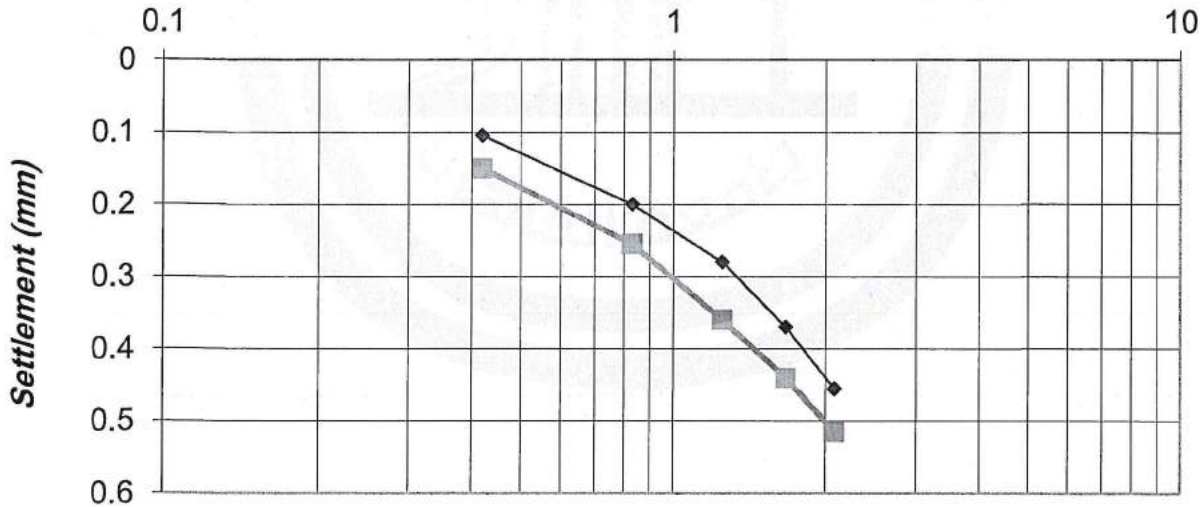
St. 433+450 : 433+475

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.36	0	0	0	9.9	9.39	0	0	0.035
20.000	1.186	0.420	9.850	9.300	0.150	0.060	0.105	9.760	9.300	0.240	0.060	0.150
40.000	2.346	0.830	9.740	9.220	0.260	0.140	0.200	9.640	9.210	0.360	0.150	0.255
60.000	3.532	1.250	9.630	9.170	0.370	0.190	0.280	9.520	9.120	0.480	0.240	0.360
80.000	4.719	1.670	9.540	9.080	0.460	0.280	0.370	9.440	9.040	0.560	0.320	0.440
100.000	5.878	2.080	9.430	9.020	0.570	0.340	0.455	9.360	8.970	0.640	0.390	0.515

Plate Bearing Test
Pressure (kg/cm²)



Ev1	2175 Kg/cm ²
Ev2	2026 Kg/cm ²
Ev2/Ev1	0.932

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-036

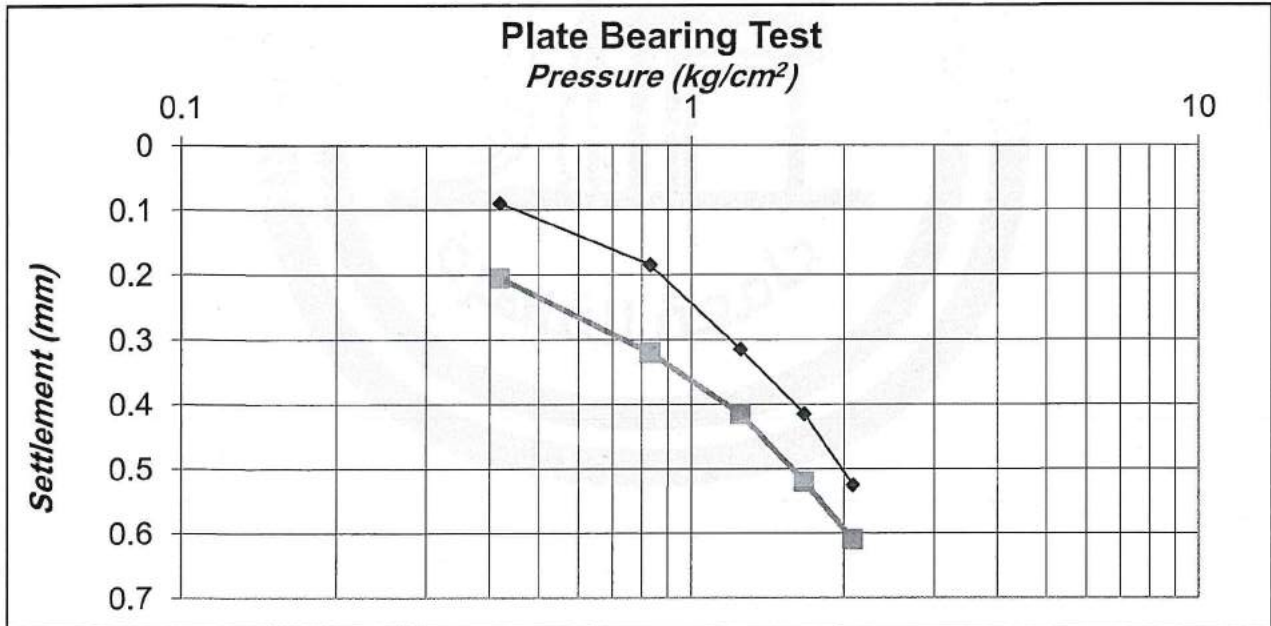
CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 8/7/2023
Test Place.: Sub-ballast
St. 433+475 : 433+500

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.53	0	0	0	10	9.42	0	0	0.055
20.000	1.186	0.420	9.900	9.450	0.100	0.080	0.090	9.800	9.320	0.200	0.210	0.205
40.000	2.346	0.830	9.800	9.360	0.200	0.170	0.185	9.650	9.240	0.350	0.290	0.320
60.000	3.532	1.250	9.630	9.270	0.370	0.260	0.315	9.530	9.170	0.470	0.360	0.415
80.000	4.719	1.670	9.500	9.200	0.500	0.330	0.415	9.410	9.080	0.590	0.450	0.520
100.000	5.878	2.080	9.340	9.140	0.660	0.390	0.525	9.290	9.020	0.710	0.510	0.610



Ev1	1656	Kg/cm ²
Ev2	1858	Kg/cm ²
Ev2/Ev1	1.122	

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-037

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 8/7/2023

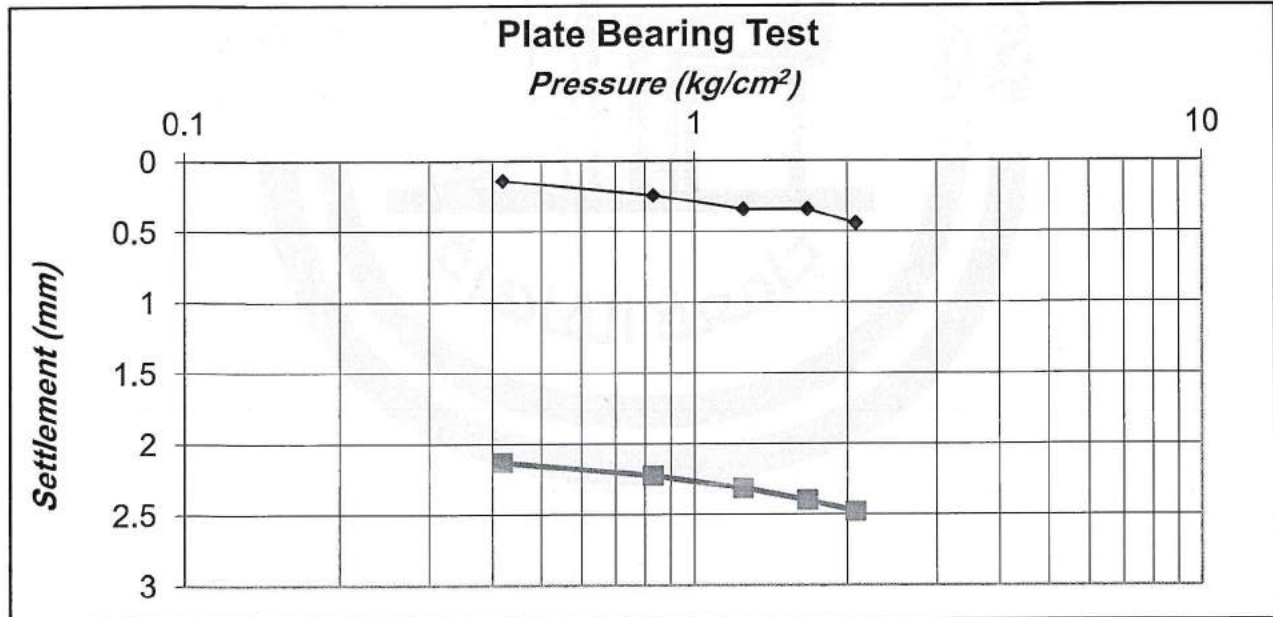
Test Place.: Sub-ballast

St. 433+500 : 433+525

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	10	9.5	0	0	0	8	7.46	0	0	2.02
20.000	1.186	0.420	9.820	9.400	0.180	0.100	0.140	7.870	7.370	2.130	2.130	2.130
40.000	2.346	0.830	9.700	9.310	0.300	0.190	0.245	7.750	7.300	2.250	2.200	2.225
60.000	3.532	1.250	9.590	9.220	0.410	0.280	0.345	7.630	7.240	2.370	2.260	2.315
80.000	4.719	1.670	9.480	9.330	0.520	0.170	0.345	7.540	7.160	2.460	2.340	2.400
100.000	5.878	2.080	9.360	9.250	0.640	0.250	0.445	7.450	7.090	2.550	2.410	2.480



Ev1	3169 Kg/cm ²
Ev2	2133 Kg/cm ²
Ev2/Ev1	0.673

Tested By



Approved



Plate Load Test Results

Report No. 2023/M/2005-038

CLIENT: شركة سيدى عبد الرحمن للمقاولات
PROJECT: القطار الكهربائى السريع - العلمين - فوكة

Date : 8/7/2023

Test Place.: Sub-ballast

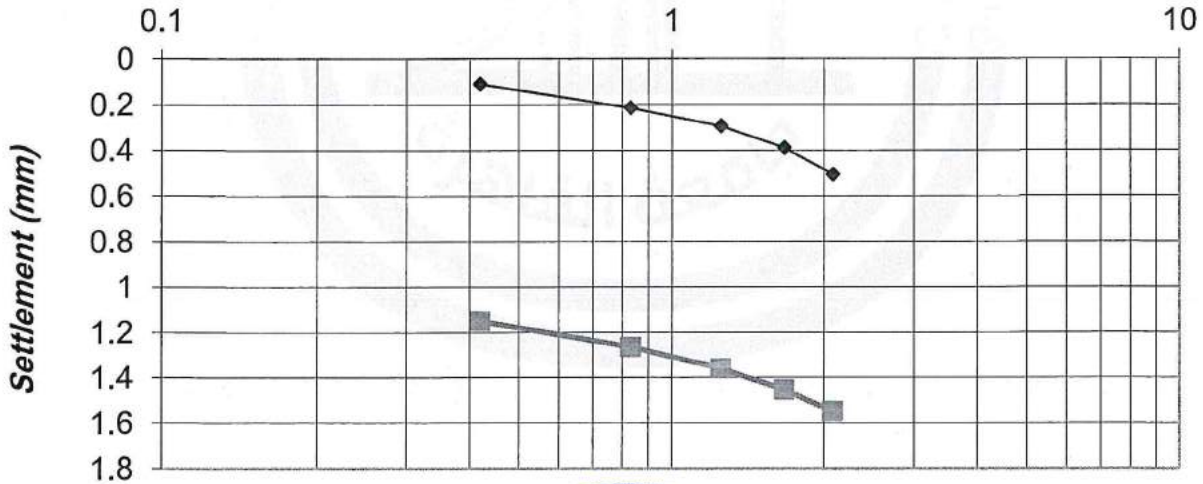
St. 433+525 : 433+550

Test No. 1

Test No. 2

Pressure Gauge Reading	Act. Load	Stress	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.	Dial 1	Dial 2	Sett. 1	Sett. 2	Avg. Sett.
kg/cm ²	ton	kg/cm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0	0	0	9	8.47	0	0	0	8	7.4	0	0	1.035
20.000	1.186	0.420	8.870	8.380	0.130	0.090	0.110	7.860	7.310	1.140	1.160	1.150
40.000	2.346	0.830	8.740	8.300	0.260	0.170	0.215	7.740	7.200	1.260	1.270	1.265
60.000	3.532	1.250	8.610	8.270	0.390	0.200	0.295	7.630	7.120	1.370	1.350	1.360
80.000	4.719	1.670	8.500	8.190	0.500	0.280	0.390	7.510	7.050	1.490	1.420	1.455
100.000	5.878	2.080	8.350	8.110	0.650	0.360	0.505	7.400	6.970	1.600	1.500	1.550

Plate Bearing Test
Pressure (kg/cm²)



Ev1	2046	Kg/cm ²
Ev2	1930	Kg/cm ²
Ev2/Ev1	0.943	

Tested By



Approved

