

# ADMATERIALS TECHNOLOGIES PTE LTD

58 Sungei Kadut Loop Singapore 729501 Co. Reg. No.: 200805959C  
Tel: (65) 6362 9066 Fax: (65) 6362 2080 Website: www.admaterials.com.sg



## TEST REPORT

**CLIENT NAME** : ECONROAD ASIA PTE LTD  
**ADDRESS** : 28, GENTING LANE, # 09-07, PLATINUM 28  
SINGAPORE 349585

**ATTENTION TO** : MR. JAMES YONG  
**TEL NO** : 6846 8455  
**FAX NO** : 6842 0438  
**ACCOUNT CHARGEABLE TO** : ECONROAD ASIA PTE LTD

**PROJECT CODE** : D0345  
**PROJECT TITLE** : GENERAL TESTING

**SUBJECT** : DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

**TEST STANDARD** : ASTM D 1883-07

**JOB REF.** : ADM/13/5752(1)

**SAMPLE REFERENCE** : ORIGINAL SOIL (0%)  
**SAMPLE SOURCE** : PT SPIJ TENARIS, JAKARTA, INDONESIA

**DATE RECEIVED** : 11-Nov-2013  
**DATE OF REPORT** : 25-Nov-2013

**TOTAL PAGES** : 2 (INCLUDING COVER PAGE)

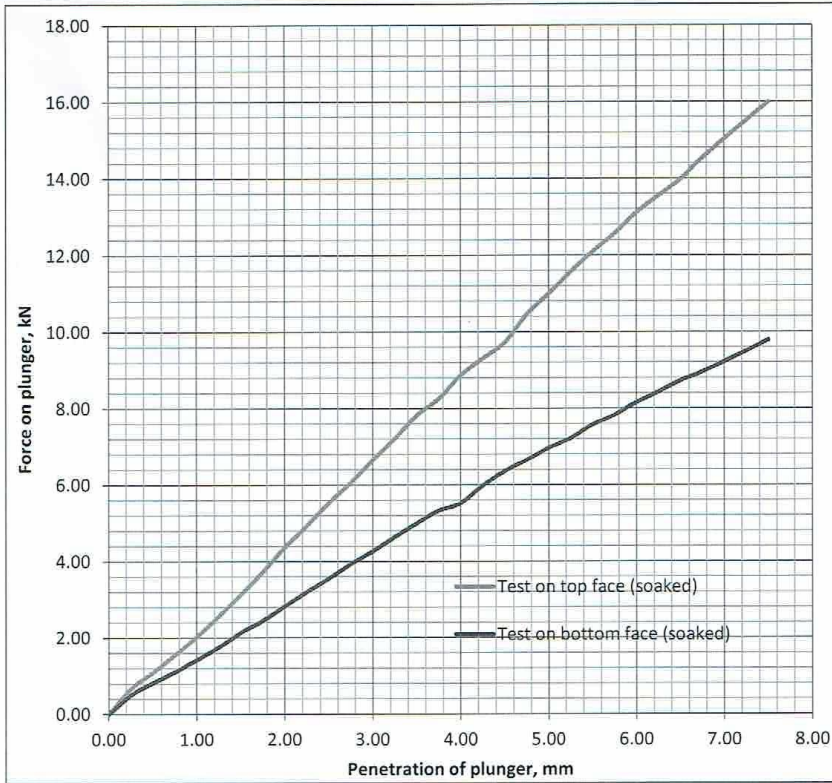
---

Terms & conditions:

1. The Report is prepared based on the tests requested and on the specific items submitted to Admaterials for testing. Admaterials assumes no responsibility for variations in quality or other characteristics of items submitted under conditions over which Admaterials has no control. This Report does not constitute a recommendation for, or endorsement of, the item or material tested.
2. Admaterials agrees to use a reasonable degree of diligence in the manner of performing the tests, inspections or services but no warrants are given and none may be implied directly or indirectly relating to Admaterials' test results, services or facilities. In no event shall Admaterials be liable for collateral, special or consequential damage.
3. The Report must not be used in advertisements without the written consent of Admaterials.
4. The Report shall not be reproduced except in full and unless approval in writing has been given by Admaterials.
5. No other third party can obtain the Report through Admaterials, unless specified in the Admaterials registration form or he has received written instruction from the applicant to authorise Admaterials to do so.



## CALIFORNIA BEARING RATIO (CBR) TEST



Sample preparation method: ASTM D1883-07		(4.5 kg rammer)		Soaking Period: 4 Days	
Initial Specimen Condition					
Moisture Content	9.9 %	Bulk Density	2.031 Mg/m <sup>3</sup>	Dry Density	1.848 Mg/m <sup>3</sup>
CBR %	Penetration	Top Face		Bottom Face	
	2.5 mm	41.96		26.92	
	5.0 mm	54.97		34.80	
CBR Value %		54.97		34.80	
Test Method:		BS 1377-4: 1990: 7.4		Sample Ref.	ORIGINAL SOIL (0%)
Soil Description:					
Prepared By: Zhou Huajun			Approved By: Sherly Wijaya		

# ADMATERIALS TECHNOLOGIES PTE LTD

58 Sungei Kadut Loop Singapore 729501 Co. Reg. No.: 200805959C  
Tel: (65) 6362 9066 Fax: (65) 6362 2080 Website: www.admaterials.com.sg



## TEST REPORT

**CLIENT NAME** : ECONROAD ASIA PTE LTD  
**ADDRESS** : 28, GENTING LANE, # 09-07, PLATINUM 28  
SINGAPORE 349585

**ATTENTION TO** : MR. JAMES YONG  
**TEL NO** : 6846 8455  
**FAX NO** : 6842 0438  
**ACCOUNT CHARGEABLE TO** : ECONROAD ASIA PTE LTD

**PROJECT CODE** : D0345  
**PROJECT TITLE** : GENERAL TESTING

**SUBJECT & TEST STANDARDS** : COMPACTION TEST (DRY DENSITY/MOISTURE CONTENT)  
ASTM D558-04

**JOB REF.** : ADM/13/5752(2)

**CLIENT SAMPLE REF.** : WITH 4% TERRAFIRMA  
**SAMPLE SOURCE REF** : PT SPIJ TENARIS, JAKARTA, INDONESIA

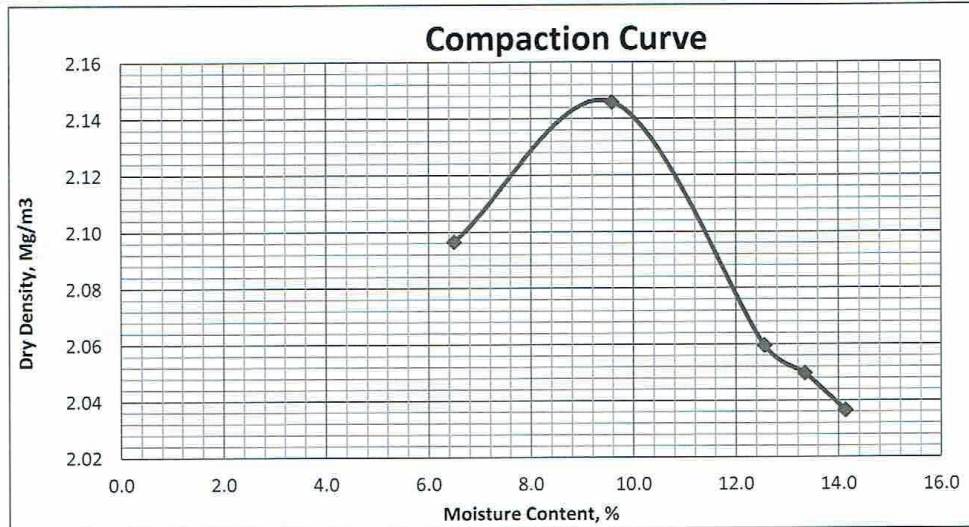
**DATE RECEIVED** : 11-Nov-2013  
**DATE OF REPORT** : 25-Nov-2013  
**TOTAL PAGES** : 2 (including cover page)

### Terms & conditions:

1. The Report is prepared based on the tests requested and on the specific items submitted to Admaterials for testing. Admaterials assumes no responsibility for variations in quality or other characteristics of items submitted under conditions over which Admaterials has no control. This Report does not constitute a recommendation for, or endorsement of, the item or material tested.
2. Admaterials agrees to use a reasonable degree of diligence in the manner of performing the tests, inspections or services but no warrants are given and none may be implied directly or indirectly relating to Admaterials' test results, services or facilities. In no event shall Admaterials be liable for collateral, special or consequential damage.
3. The Report must not be used in advertisements without the written consent of Admaterials.
4. The Report shall not be reproduced except in full and unless approval in writing has been given by Admaterials.
5. No other third party can obtain the Report through Admaterials, unless specified in the Admaterials registration form or he has received written instruction from the applicant to authorise Admaterials to do so.



## COMPACTION TEST (ASTM D558-04)



Method used:	Method Using 4.5kg Rammer (4-in. diameter mould; 5 layers, 25 blows per layer)		
Preparation method used:	Dry Preparation Method		
Percentage of fraction retained 20 mm and 37.5 mm sieves:			0 %
Percentage of fraction passing 20 mm and 37.5 mm sieves:			100 %
As received moisture content:			9.9 %
Optimum moisture content:			<b>9.6 %</b>
Maximum dry density:			<b>2.15 Mg/m<sup>3</sup></b>
Location: -	Job ref.	ADM/13/5752(2)	
	Test no.	-	
	Sample no.	-	
Soil description: Greyish Sandy Sand	Depth excavated	-	
Test Method: ASTM D558-04	Date of test	18/11/2013	

PREPARED BY:

ZHOU HUA JUN  
Engineer

APPROVED BY:

SHERLY WIJAYA  
Senior Laboratory Manager

# ADMATERIALS TECHNOLOGIES PTE LTD

58 Sungei Kadut Loop Singapore 729501 Co. Reg. No.: 200805959C  
Tel: (65) 6362 9066 Fax: (65) 6362 2080 Website: www.admaterials.com.sg



## TEST REPORT

**CLIENT NAME** : ECONROAD ASIA PTE LTD  
**ADDRESS** : 28, GENTING LANE, # 09-07, PLATINUM 28  
SINGAPORE 349585

**ATTENTION TO** : MR. JAMES YONG  
**TEL NO** : 6846 8455  
**FAX NO** : 6842 0438  
**ACCOUNT CHARGEABLE TO** : ECONROAD ASIA PTE LTD

**PROJECT CODE** : D0345  
**PROJECT TITLE** : GENERAL TESTING

**SUBJECT** : DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

**TEST STANDARD** : ASTM D 1883-07

**JOB REF.** : ADM/13/5752(3)

**SAMPLE REFERENCE** : WITH 4% TERRAFIRMA  
**SAMPLE SOURCE** : PT SPIJ TENARIS, JAKARTA, INDONESIA

**DATE RECEIVED** : 11-Nov-2013  
**DATE OF REPORT** : 25-Nov-2013

**TOTAL PAGES** : 2 (INCLUDING COVER PAGE)

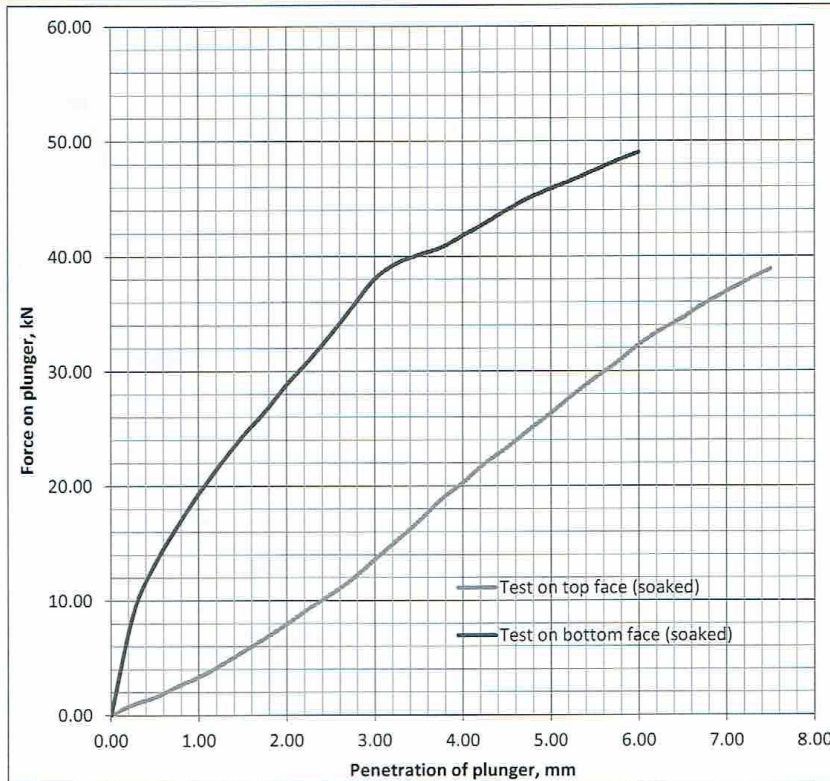
---

Terms & conditions:

1. The Report is prepared based on the tests requested and on the specific items submitted to Admaterials for testing. Admaterials assumes no responsibility for variations in quality or other characteristics of items submitted under conditions over which Admaterials has no control. This Report does not constitute a recommendation for, or endorsement of, the item or material tested.
2. Admaterials agrees to use a reasonable degree of diligence in the manner of performing the tests, inspections or services but no warrants are given and none may be implied directly or indirectly relating to Admaterials' test results, services or facilities. In no event shall Admaterials be liable for collateral, special or consequential damage.
3. The Report must not be used in advertisements without the written consent of Admaterials.
4. The Report shall not be reproduced except in full and unless approval in writing has been given by Admaterials.
5. No other third party can obtain the Report through Admaterials, unless specified in the Admaterials registration form or he has received written instruction from the applicant to authorise Admaterials to do so.



## CALIFORNIA BEARING RATIO (CBR) TEST



Sample preparation method: ASTM D1883-07 (4.5 kg rammer)		Soaking Period: 4 Days	
Initial Specimen Condition			
Moisture Content	9.9 %	Bulk Density	2.264 Mg/m <sup>3</sup>
		Dry Density	2.060 Mg/m <sup>3</sup>
CBR %	Penetration	Top Face	Bottom Face
	2.5 mm	79.96	251.75
	5.0 mm	131.67	229.38
CBR Value %		131.67	251.75
Test Method:	BS 1377-4: 1990: 7.4	Sample Ref.	WITH 4% TERRAFIRMA
Soil Description:			
Prepared By: Zhou Huajun		Approved By: Sherly Wijaya	

*Site Photo:*

