

TEST REPORT OF THE BULK DENSITY OF AGGREGATES


Client	DESERT DIAMOND		
Contractor	M/S. DESERT DIAMOND TRADING CO.		
Project	AGGREGATES SUPPLY	SHEET NO.	136
Material	AGG. 10MM / GABBRO	Sample Date	08/09/2013
Sampled by	LAB TECHNICIAN	Testing Date	12/09/2013
Source	FUJAIRA (UAE)	Reporting Date	15/09/2013
Sample ID. No.	17782	TLC NO	16975

TESTED TO ASTM C 29/C 29M – 97 PROCEDURE - RODDING

Test No.		1	2
G = Wt. of Aggregates + measure	kg	23.235	23.245
T = Wt. of the measure only	kg	6.555	6.555
V = Volume of cylindrical measure	m ³	0.01	0.01
M = Bulk density of the aggregates, (G – T) V	kg/m ³	1668	1669
Average bulk density of the aggregates	kg/m ³	1669 kg/m ³	

REMARKS :

- Material Sampled & Delivered By : LAB TECHNICIAN
- Sampling Procedure : Not Provided
- The test Result is related only to the sample tested.
- This Report shall only be reproduced in full, after approval from the testing Laboratory.


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Page 1 of 1

Doc. No. F170A , Rev. 01, 11th of September, 2011

TEST REPORT OF THE AGGREGATE IMPACT VALUE

CLIENT	DESERT DIAMOND		
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	AGGREGATES SUPPLY	SHEET NO.	145
MATERIAL	AGG. 10mm / GABBRO	Sample Date	08/09/2013
SAMPLED BY	LAB TECHNICIAN	Testing Date	14/09/2013
SOURCE	FUJAIRA (UAE)	Reporting Date	15/09/2013
SAMPLE ID NO.	17782	TLC NO	16977


TESTED TO BS 812 : Part 112 : 1990

TEST	RESULT OBTAINED (%)
AGGREGATE IMPACT VALUE	8.8 %

QCS 2010 Limits : 25% Maximum for Coarse Aggregates

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LB-069

Doc. No. F239 , Rev. 01 , 15th June, 2012

TEST REPORT OF THE MATERIAL FINER THEN 75 UM SIEVE

Client	DESERT DIAMOND		
Contractor	M/s. DESERT DIAMOND TRADING CO.		
Project	GABBRO SUPPLY	SHEET NO.	145
Material	AGG. 10mm / GABBRO	Sample Date	08/09/2013
Sampled by	LAB TECHNICIAN	Testing Date	13/09/2013
Source	FUJAIRA (UAE)	Reporting Date	15/09/2013
Sample ID NO.	17782	TLC NO	16973


TESTED TO ASTM C 117- 04

TEST	RESULT OBTAINED (%)	METHOD
MATERIAL FINER THEN 75 UM	0.7 %	Procedure 8 - A

QCS 2010 LIMITS : Max. 2 % for coarse & 3 % for natural uncrushed/crushed AND
2 % for coarse & 5 % for fine crushed aggregates.

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Page 1 of 1

Doc. No. F169 Rev. 01, 29th of September, 2011

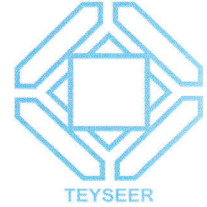
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TEST REPORT OF CHEMICAL ANALYSIS

CLIENT	DESERT DIAMOND		
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	AGGREGATES SUPPLY	SHEET NO.	1639
MATERIAL	AGGREGATES 10mm / GABBRO	TLC NO.	16971
SOURCE	FUJAIRA (UAE)	SAMPLE DATE	08/09/2013
LOCATION	MESAIEED	TESTING DATE	14/09/2013
SAMPLE ID No.	17782	REPORT DATE	15/09/2013

TESTED TO BS EN 1744 -1 & 1744 - 5

TEST	RESULT OBTAINED (%)
ACID SOLUBLE SULPHATE CONTENT (SO ₃)	0.068 %
ACID SOLUBLE CHLORIDE CONTENT (Cl)	0.014 %

QCS 2010 Limits : So₃ - Max. 0.3% For Coarse Aggregates And Max. 0.4% For Fine Aggregates

QCS 2010 Limits : Cl - Max. 0.03% For Coarse Aggregates And Max. 0.06% For Fine Aggregates

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Page - 1 of 1

Doc. No. F254, Rev. 00 , 1st of September 2012

TEST REPORT OF THE SHELL CONTENT

Client	DESERT DIAMOND		
Contractor	M/s. DESERT DIAMOND TRADING CO.		
Project	AGGREGATES SUPPLY	SHEET NO.	100
Material	AGG. 10MM / GABBRO	Sample Date	08/09/2013
Sampled by	LAB TECHNICIAN	Testing Date	13/09/2013
Source	FUJAIRA (UAE)	Reporting Date	15/09/2013
Sample ID NO.	17782	TLC NO	16969


Tested to BS 812 : PART 106 : 1985

TEST	RESULT OBTAINED (%)
SHELL CONTENT	0.0%

QCS 2010 Limits : Maximum 3% For fine & Course Aggregates.

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Page 1 of 1

Doc No. F121 Rev. 01, 29th of September 2011

TEST REPORT OF THE CLAY LUMPS & FRIABLE PARTICLES

Client	DESERT DIAMOND		
Contractor	M/s. DESERT DIAMOND TRADING CO.		
Project	AGGREGATES SUPPLY	SHEET NO.	126
Material	AGG. 10MM / GABBRO	Sample Date	08/09/2013
Sample by	LAB TECHNICIAN	Testing Date	13/09/2013
Source	FUJAIRA (UAE)	Reporting Date	15/09/2013
Sample ID No.	17782	TLC NO	16967


TESTED TO ASTM C 142 - 78 : 1990

TEST	METHOD	RESULTS OBTAINED (%)
Clay Lumps & Friable Particles	Procedure - 6	0.0 %

QCS 2010 Limits : Maximum 2% for Fine Agg. And Max. 2% for Coarse Aggregates.

REMARKS :

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Page 1 Of 1

Doc. No. F105 Rev. 01, 1st of September, 2011



LABORATORY TEST REPORT

TEST : PARTICLE DENSITIES AND WATER ABSORPTION

TESTED TO BS 812 : PART 2 : 1995

SHEET No.	33593	LAB No	0	TLC No.	16965
CLIENT	DESERT DIAMOND				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	AGGREGATES SUPPLY				
SAMPLE ID	17782				
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	SAMPLE LOCATION	MESAIEED		
SAMPLING DATE (SITE)	08/09/2013	SAMPLE RECEIVED DATE (LAB)	08/09/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	TESTING DATE	13/09/2013		
SAMPLED BY	LAB TECH.	REPORTING DATE	15/09/2013		
DELIVERED BY	LAB TECH.	CONDITION OF SAMPLE RECEIVED	SATISFACTORY		

TEST RESULTS

Test	Method
Particle Densities And Water Absorption	5.4

RESULT OBTAINED

Material	O. D Basis Mg/m ³	S. S. Dry Basis Mg/m ³	Apparent Mg/m ³	Water Absorption%
AGG. 10mm / GABBRO	2.929	2.938	2.956	0.3

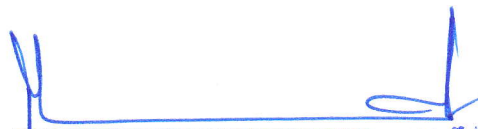
QCS 2010 Limits : For Asphalt use - Water Absorption : Max. 1.5% for all courses and Max. 2% for Base course. And For Concrete use 2.3% Max. for fine Agg. and 2% Max. for Coarse Agg. And Particle Density : 2.6% Min. for fine Agg. & Coarse Agg.

Remarks :

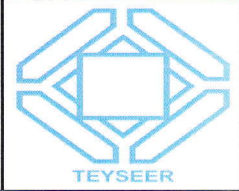
- Sampling Procedure : Not Provided
- The test Result is related only to the sample tested.
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Doc. No. F 110, Rev. 01, 10th of April, 2011



LABORATORY TEST REPORT

TEST : TEN PERCENT FINES VALUE

TESTED TO BS 812 : PART 111 : 1990

SHEET No.	33591	LAB No	0	TLC No.	16963
CLIENT	DESERT DIAMOND				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	AGGREGATES SUPPLY				
SAMPLE ID	17782				
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLING DATE (SITE)	08/09/2013		
SAMPLE RECIVED DATE (LAB)	08/09/2013	TESTING DATE	14/09/2013		
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	REPORTING DATE	15/09/2013		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
SAMPLE CONDITION	Acceptable	SAMPLE LOCATION	MESAIEED		

TEST RESULTS

Test	Method	Result Obtained (kN)
Ten Percent Fine Value	Procedure - 7	381

QCS 2010 Limits : Minimum 150 kN For Concrete

Remarks :

- Sample Procedure : Not Provided
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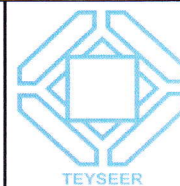
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LB-069

Doc. No. F113, Rev. 01, 1st of April, 2011



LABORATORY TEST REPORT

TEST : LOS ANGELES ABRASION

TESTED TO ASTM C131 & C535 : 1989

SHEET No:	33589	LAB No:	0	TLC No:	16961
CLIENT :	DESERT DIAMOND				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	AGGREGATES SUPPLY				
SAMPLE ID	17782				
SAMPLE RECEIVED DATE (LAB)	08/09/2013	TESTING DATE	13/09/2013		
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	REPORTING DATE	15/09/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLE LOCATION	MESAIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
CONDITIONS OF SAMPLE RECEIVED	Acceptable	DATE OF SAMPLING (SITE)	08/09/2013		

TEST RESULTS

Test	Method	Result Obtained (%)
Los Angeles Abrasion	ASTM C 131	13.5

QCS 2010 Limits	For Asphalt use : Maximum 25% for wearing course & Maximum 30% for Intermediate & Base course And For Concrete use : 30% Maximum course Aggregates.
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Remarks :

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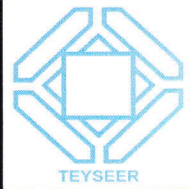
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LB-069



LABORATORY TEST REPORT
TEST REPORT OF THE SOUNDNESS
TESTED TO ASTM C 88-1990

SHEET No.	33587	LAB No	0	TLC No.	16959
CLIENT	DESERT DIAMOND				
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.				
PROJECT	AGGREGATES SUPPLY				
SAMPLE ID	17782				
DATE OF SAMPLING (SITE)	08/09/2013	SAMPLE RECEIVED DATE (LAB)	08/09/2013		
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	TESTING DATE	14/09/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	REPORTING DATE	15/09/2013		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
NO. OF CYCLES	5	CONDITION OF SAMPLE RECEIVED	SATISFACTORY		

TEST RESULTS

Test	Method	Result Obtained (%)
SOUNDNESS	Procedure - 8	2.6

QCS 2010 Limits : For Asphalt use : Maximum 10% for Wearing & Intermediate course & Maximum 15% for Base course. And For Concrete use : 15% Maximum Fine Agg. & Course Agg.

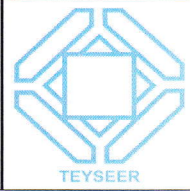
Remarks :

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Doc. No. F123, Rev. 01, 10th April, 2011



LABORATORY TEST REPORT

TEST :ELONGATION INDEX

TESTED TO BS 812 : PART 105 SECTION 105.2 : 1990

SHEET No:	33585	LAB No:	0	TLC No:	16957
CLIENT :	DESERT DIAMOND				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	AGGREGATES SUPPLY				
SAMPLE ID	17782				
SAMPLE RECEIVED DATE (LAB)	08/09/2013	TESTING DATE	12/09/2013		
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	REPORTING DATE	15/09/2013		
SOURCE OF MATERIAL	FUJAIRA (UAE)	SAMPLE LOCATION	MESAIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
CONDITIONS OF SAMPLE RECEIVED	Acceptable	DATE OF SAMPLING (SITE)	08/09/2013		

TEST RESULTS

BS Sieves, mm	Seive analysis To BS 812 : Part 103.1,1985 - Procedure 7.3			Elongation Gauge Wt.Retained (g)
	Wt.Retained (g)	Retained %	Passing %	
14.0	0	0.0	100	0
10.0	181	10.4	90	6
6.3	1567	89.6	0	616

TOTAL WT.RETAINED (M1) = 1748 g

REDUCED WT. (M2) = 1748 g

ELONGATION INDEX = 36 %

TOTAL WT.RETAINED (M3) = 622 g

QCS 2010 LIMITS : Each stockpile 30% maximum for all courses and the average of all stockpile shall not exceed 25% for Wearing corse And (35% Maximum for Concrete use Coarse Agg.)

Remarks :

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Doc. No. F109, Rev 02, 28th February, 2011

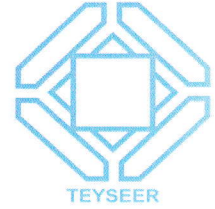
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TEST REPORT OF FLAKINESS INDEX

TESTED TO BS EN 933 – 3

CLIENT	DESERT DIAMOND		
CONTRACTOR	M/s. DESERT DIAMOND TRADING CO.		
PROJECT	AGGREGATES SUPPLY	SHEET NO.	617
MATERIALS	Agg. 10mm / GABBRO	SAMPLE DATE	08/09/2013
SOURCE	FUJAIR (UAE)	TESTING DATE	12/09/2013
LOCATION	MESAIEED	REPORTING DATE	15/09/2013
SAMPLE ID NO.	17782	TLC NO.	16955

SIEVE ANALYSIS TO BS EN 933 – 1

Sieves, mm	Mass Retained, (g)	Nominal width of slot in Bar sieve (mm)	Flakiness Sieve Wt. Passing (g)
12.5/16	0	8	0
10/12.5	181	6.3	20
8/10	877	5	137
6.3/8	690	4	121
5/6.3	301	3.15	55
4/5	82	2.5	15

Total Wt. Retained, (g)	2131 g	Total Weight Passing 338 g
Flakiness index, (%)	16 %	

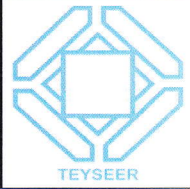
- QCS 2010 Limits : Maximum 30% Max. for Concrete Use
- MATERIALS SAMPLED AND DELIVERED BY : Teyseer Lab Technicians.

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LB-069



LABORATORY TEST REPORT

TEST : PARTICLES SIZE DISTRIBUTION OF AGGREGATE

TESTED TO BS EN 933 - 1 : 2012 CLAUSE 7

SHEET No:	33583	LAB No:	0	TLC No:	16953
CLIENT :	DESERT DIAMOND				
CONTRACTOR:	M/s. DESERT DIAMOND TRADING CO.				
PROJECT:	AGGREGATES SUPPLY				
SAMPLE ID	17782				
SAMPLE RECEIVED DATE (LAB)	08/09/2013	TESTING DATE	12/09/2013		
MATERIAL DESCRIPTION	Agg: 10 mm Gabbro	REPORTING DATE	15/09/2013		
SOURCE OF MATERIAL	FUJAIIRA (UAE)	SAMPLING LOCATION	MESAIIEED		
SAMPLED BY	LAB TECH.	DELIVERED BY	LAB TECH.		
TEST METHOD	WET METHOD	DATE OF SAMPLING (SITE)	08/09/2013		

RESULTS OBTAINED

BS Seives,mm	Wt.Retained (g)	Passing %	Specification	
20	0	100	100	100
14	0	100	98	100
10	181	92	85	99
4	1950	1	0	20
2	13	1.0	0	5
Passing 2 mm	18			
Total	2162			

Remarks :

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