

اختبار كسر مكعبات الخرسانة بعد 7 أيام من الصب

يتم أخذ خرسانة المكعبات من نفس الخلاطة المختارة من قبل العميل بواسطة الفنيين المختصين للشركة المنتجة بدون أي تدخل خارجي.



يقوم العميل بوضع علامة خاصة على المكعبات لتمييزها عن غيرها.



تنقل المكعبات الي مقر المختبر حيث يقومون بحفظهم وغمرهم
في أحواض مليئة بالماء.



توضع 3 مكعبات بأحواض لمدة (7) يوم
و 3 مكعبات بأحواض لمدة (28) يوم.



في اليوم الثامن يفضل حضور العميل شخصياً لمشاهدة الاختبار حيث يقوم مسئول المختبر بتجهيز المكعبات ووزنها احترازياً.



توضع المكعبات على جهاز الكسر مباشرة.



يتوقف الجهاز لبرهه معلناً اكتمال عملية كسر المكعب كما في الصورة.



يتم القراءة بالعين المجردة في شاشة جهاز الكسر حيث يظهر رقم مقاومة المكعب.



يقوم مسئول المختبر بطباعة تقرير رسمي مختوم يسلم للعميل.



صورة التقرير لعينة (7) يوم وخرسانة 8 كيس مقاوم.

QUALITY CERTIFICATE					
Quality Certificate No:		SMC-Q- 0100			
Compressive Strength Of Concrete Specimens (ASTM-C39)					
Customer Name :		SAVED			
Customer Account :		Location:		althuriya	
Specs	Cement kg/m ³	Cement Type	Slump (mm)	Structure	Standards used
	400	SRC	150	FOUNDATIONS	ASTM-C 31/ C 192
	Concrete Temp	Quantity (m ³)	Air Content	Sample (mm)	Time Of Departure
	30.0 °C	----	2.0%	150 X 150 X 150	----
TEST RESULTS					
DATE CASTED		24/01/2012			
DATE TESTED		31/01/2012			
AGE (DAYS)		7			
SAMPLE NO		A	B		AVERAGE
APPLIED LOAD (KN)		520	470		495
STRENGTH kg/cm ²		235.7	213.1		224.4
AVERAGE kg/cm ²		224.4			
STRENGTH Mpa		23.1	20.9		22.0
AVERAGE Mpa		22.0			
REMARKS		Required for this Mix Design at 7 days 225 kg/cm ²			

الفديو

ملحوظة

يجب الا تقل مقاومة مكعب الخرسانة للكسر بعد 7 أيام من تاريخ الصب عن 75% من مقاومته للكسر بعد 28 يوم من تاريخ صب الخرسانة.

Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Wednesday, August 08, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم ²
Casting Date	Wednesday, August 01, 2012
Breaking Date	Wednesday, August 08, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8173	2.42	7	47.91	212.91	212.91
2	15 x 15 x 15	8021	2.38	7	50.97	226.50	
3	15 x 15 x 15	7936	2.35	7	44.85	199.32	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.

Lab. Engineer
Ahmed Ibrahim



Checked by Lab. Director

Dr: Ramadan Abdel Maguid

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الهـرم : ١١ ش محمد إسماعيل - خلف فندق أوروبا - رقم بريدي ١٢٥١٥ ص . ب : ٣٤١

تلفاكس : ٣٥٨٦ ٢٧٠٣ - ٣٩٧٦ ٨٨٤٥ - ٣٥٨٦ ٤٥٤٧ - ٣٥٨٦ ٢٧٠٣ (+ ٢٠٢)

الدقي : ش أحمد الشاطوري متفرع من ش الدقي خلف المدرسة الألمانية

تلفاكس : ٣٣٣٨٠٣١٤ - ٣٣٣٨٠٣١٩ (+ ٢٠٢)

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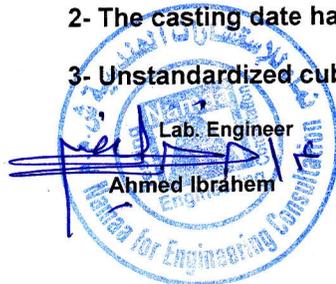
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Sunday, August 12, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم ²
Casting Date	Sunday, August 05, 2012
Breaking Date	Sunday, August 12, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8149	2.41	7	52.50	233.30	204.61
2	15 x 15 x 15	8168	2.42	7	50.97	226.50	
3	15 x 15 x 15	7915	2.35	7	48.93	217.44	
4	15 x 15 x 15	8186	2.43	7	36.70	163.08	
5	15 x 15 x 15	8132	2.41	7	50.97	226.50	
6	15 x 15 x 15	8085	2.40	7	36.19	160.82	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



Checked by Lab. Director

Dr: Ramadan Abdel Maguid

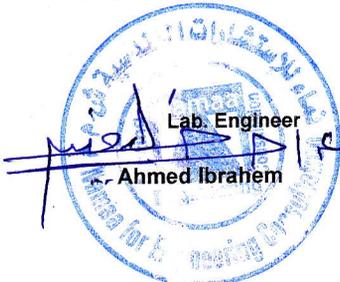
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Saturday, August 25, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم ²
Casting Date	Monday, August 13, 2012
Breaking Date	Saturday, August 25, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8250	2.44	12	47.91	212.91	244.62
2	15 x 15 x 15	8126	2.41	12	56.07	249.15	
3	15 x 15 x 15	8098	2.40	12	61.16	271.80	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



Checked by Lab. Director

Dr: Ramadan Abdel Maguid

Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Wednesday, August 29, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم ²
Casting Date	Wednesday, August 01, 2012
Breaking Date	Wednesday, August 29, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8022	2.38	28	56.07	249.15	250.66
2	15 x 15 x 15	8016	2.38	28	51.99	231.03	
3	15 x 15 x 15	8098	2.40	28	61.16	271.80	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
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Checked by Lab. Director

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الدقي : ش أحمد الشاطوري متفرع من ش الدقي خلف المدرسة الألمانية

تلفاكس : ٣٣٣٨٠٣١٤ - ٣٣٣٨٠٣١٩ (+ ٢٠٢)

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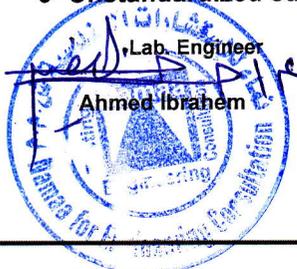
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Sunday, September 02, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم 2
Casting Date	Sunday, August 05, 2012
Breaking Date	Sunday, September 02, 2012
Lab. Technician	Ahmed Abdulfatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8064	2.39	28	72.88	323.90	297.47
2	15 x 15 x 15	8128	2.41	28	78.49	348.81	
3	15 x 15 x 15	8062	2.39	28	67.28	298.98	
4	15 x 15 x 15	8160	2.42	28	61.67	274.07	
5	15 x 15 x 15	8196	2.43	28	62.69	278.60	
6	15 x 15 x 15	8226	2.44	28	58.61	260.48	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



Checked by Lab. Director

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الهرم : ١١ ش محمد إسماعيل - خلف فندق أوروبا - رقم بريدى ١٢٥١٥ ص. ب. ٣٤١

تلفاكس : ٣٥٨٦ ٢٧٠٣ - ٣٩٧٦ ٨٨٤٥ - ٣٥٨٦ ٤٥٤٧ (+ ٢٠٢)

الدقى : ش أحمد الشاطورى متفرع من ش الدقى خلف المدرسة الألمانية

تلفاكس : ٣٣٣٨٠٣١٤ - ٣٣٣٨٠٣١٩ (+ ٢٠٢)

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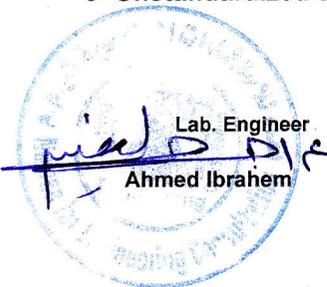
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Monday, September 10, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مرفئ مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم ²
Casting Date	Monday, August 13, 2012
Breaking Date	Monday, September 10, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	7980	2.36	28	66.26	294.45	292.94
2	15 x 15 x 15	8105	2.40	28	71.36	317.10	
3	15 x 15 x 15	8199	2.43	28	60.14	267.27	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



Checked by Lab. Director

Dr: Ramadan Abdel Maguid



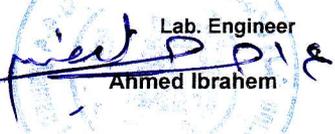
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Tuesday, September 11, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد عادية - اجهاد 200 كجم / سم 2
Casting Date	Tuesday, September 04, 2012
Breaking Date	Tuesday, September 11, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8105	2.40	7	45.87	203.85	214.42
2	15 x 15 x 15	8118	2.41	7	41.79	185.73	
3	15 x 15 x 15	8141	2.41	7	55.05	244.62	
4	15 x 15 x 15	8093	2.40	7	55.05	244.62	
5	15 x 15 x 15	8089	2.40	7	43.83	194.79	
6	15 x 15 x 15	8131	2.41	7	47.91	212.91	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.

Lab. Engineer

 Ahmed Ibrahim

Checked by Lab. Director
 Dr: Ramadan Abdel Maguid



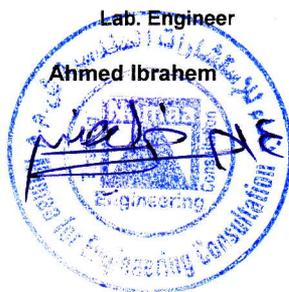
Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Thursday, September 20, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد مسلحة - اجهاد 250 كجم / سم ²
Casting Date	Thursday, September 13, 2012
Breaking Date	Thursday, September 20, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8167	2.42	7	56.07	249.15	
2	15 x 15 x 15	8280	2.45	7	75.43	335.22	
3	15 x 15 x 15	8135	2.41	7	70.34	312.57	
4	15 x 15 x 15	8165	2.42	7	66.26	294.45	
5	15 x 15 x 15	8260	2.45	7	70.34	312.57	
6	15 x 15 x 15	8269	2.45	7	62.18	276.33	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



Checked by Lab. Director
Dr: Ramadan Abdel Maguid

Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Thursday, September 20, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد مسلحة - اجهاد 250 كجم / سم ²
Casting Date	Thursday, September 13, 2012
Breaking Date	Thursday, September 20, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	2

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
7	15 x 15 x 15	8069	2.39	7	84.10	373.73	
8	15 x 15 x 15	8075	2.39	7	65.75	292.19	
9	15 x 15 x 15	7965	2.36	7	57.59	255.95	
10	15 x 15 x 15	8167	2.42	7	72.38	321.63	
11	15 x 15 x 15	8272	2.45	7	58.61	260.48	
12	15 x 15 x 15	8164	2.42	7	63.20	280.86	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.

Lab. Engineer

Ahmed Ibrahem



Checked by Lab. Director

Dr: Ramadan Abdel Maguid



Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Thursday, September 20, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد مسلحة - اجهاد 250 كجم / سم ²
Casting Date	Thursday, September 13, 2012
Breaking Date	Thursday, September 20, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	3

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
13	15 x 15 x 15	8131	2.41	7	57.59	255.95	
14	15 x 15 x 15	8117	2.41	7	84.10	373.73	
15	15 x 15 x 15	8164	2.42	7	80.02	355.61	
16	15 x 15 x 15	8074	2.39	7	67.28	298.98	
17	15 x 15 x 15	8227	2.44	7	53.52	237.83	
18	15 x 15 x 15	8082	2.39	7	53.01	235.56	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.

Lab-Engineer
Ahmed Ibrahim

Checked by Lab. Director
Dr: Ramadan Abdel Maguid



Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Thursday, September 20, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد مسلحة - اجهاد 250 كجم / سم 2
Casting Date	Thursday, September 13, 2012
Breaking Date	Thursday, September 20, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	4

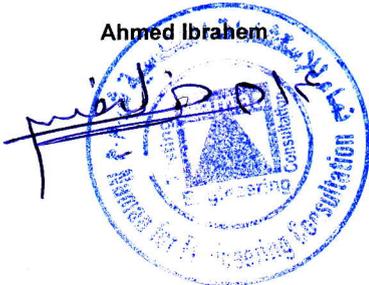
No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
19	15 x 15 x 15	8225	2.44	7	70.34	312.57	298.00
20	15 x 15 x 15	8038	2.38	7	72.88	323.90	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.

Lab. Engineer

Ahmed Ibrahim



Checked by Lab. Director

Dr: Ramadan Abdel Maguid



Determination of Compressive Strength of Hardened Concrete
(Using Cubic Samples)

Date	Monday, September 24, 2012
Client	الشركة الهندسية للأعمال المتكاملة
Location & Project	مارفيل مول - التجمع الخامس
Sample	قواعد مسلحة اجهاد 250 كجم / سم 2
Casting Date	Monday, September 17, 2012
Breaking Date	Monday, September 24, 2012
Lab. Technician	Ahmed AbdulFatah
File No.	1

No.	Dimension (cm)	Weight (gm)	Density (ton/m ³)	Age (day)	Breaking Load (ton)	Breaking stress (kg/cm ²)	Average stress (kg/cm ²)
1	15 x 15 x 15	8120	2.41	7	58.10	258.21	266.52
2	15 x 15 x 15	8105	2.40	7	68.30	303.51	
3	15 x 15 x 15	8082	2.39	7	53.52	237.83	

Notes:

- 1- The samples had been casted by the client's acknowledgement.
- 2- The casting date had been written by the client's acknowledgement.
- 3- Unstandardized cube's (Irregular cube) result will be ignored.



 Lab. Engineer
 Ahmed Ibrahim

Checked by Lab. Director
 Dr: Ramadan Abdel Maguid