

محضر استلام موقع

مشروع: أعمال الجسر الترابي لمسار القطار الكهربائي السريع الخط الأول (العين السخنة - مطروح) قطاع (فوكه / مطروح) لتنفيذ المسافة من الكم 507,000 إلى الكم

509,000 بطول 2 كم اتجاه استكمال برج العرب

تنفيذ: شركة ايجي كونتراك - زكريا جابر قلدس رشيد

إشراف: المنطقة الخامسة - منطقة غرب الدلتا

طبقاً للعقد رقم (2024/2023/413) بتاريخ 2023/09/19

إنه في يوم الاحد الموافق 2024/9/1 اجتمع كل من:-

- 1- السيد المهندس / محمد حسني فياض مدير عام المشروعات - الهيئة العامة للطرق والكباري
- 2- السيد المهندس / إبراهيم عبد الله الحناوي مهندس العملية - الهيئة العامة للطرق والكباري
- 3- السيد المهندس / محمد محمد احمد مدير المشروع - شركة ايجي كونتراك

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-

وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبداية في التنفيذ وبناء عليه يعتبر تاريخ 2024/9/1 هو تاريخ استلام الموقع وبدء الأعمال بالعملية

واقفل المحضر على ذلك ووقع الحضور

التوقيعات

3- 
2- 
1- 

رئيس الإدارة المركزية

منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

"هاني محمد محمود طه"



الهيئة العامة
للطرق والكباري

قائمة الكميات الواردة بالمستخلص جارى 1

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في
المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال برج العرب

رقم البند و بيانه : (5-1-2) أعمال توريد وصب خرسانة عادية سمك 15 سم لحماية الأكتاف والميول الجانبية
الكميات المنفذة خلال الفترة ابتداء من 22/03/2024

تنفيذ : شركة إيجي كونترك - زكريا جابر قلدس رشيد

مقدار العمل السابق :		0.00	2م
بيان الاعمال	الكمية		
الكميات طبقاً لقوائم الكميات	16,010.77		
اجمالي الكميات خلال فترة المستخلص الحالية (م ²)		16010.77	
الاجمالي الكلي (م ²)		16,010.77	

مهندس الهيئة العامة للطرق
والكباري
م / إبراهيم عبدالله الحناوي

مدير المشروع الإستشاري
مكتب د / خالد قنديل
م / خالد فوزي محمد
م. الزبيدي

مهندس الإستشاري (xyz)
م / محمد شهاب خليل
محمد خليل

مهندس الشركة
م / محمد محمد احمد
محمد احمد



الهيئة العامة
للطرق والكباري

قائمة الكميات الواردة بالمستخلص جارى 1

مشروع : القطار الكهربائي السريع (العين السخنة -العاصمة الادارية -العلمين -مطروح) قطاع فوكة - مطروح في
المسافة من الكم 507+000 الى الكم 509+000 بطول 2 كيلو متر اتجاه استكمال برج العرب

رقم البند و بيانه : (5-1-1) أعمال توريد وصب خرسانة عادية سمك 15 سم لحماية الأكتاف والميول الجانبية
الكميات المنفذة خلال شهر سبتمبر 2023

تنفيذ : شركة إيجي كونترك -زكريا جابر قلدس رشيد

مقدار العمل السابق :		0.00	2م
بيان الاعمال	الكمية		
الكميات طبقاً لقوائم الكميات	18,295.90		
اجمالي الكميات خلال فترة المستخلص الحالية (م ²)		18295.90	
الاجمالي الكلي (م ²)		18,295.90	

مهندس الهيئة العامة للطرق
والكباري
م / إبراهيم عبدالله الحناوي

مدير المشروع الاستشاري
مكتب د / خالد فتنديل
م / خالد فوزي محمد
م / خالد

مهندس الاستشاري (xyz)
م / محمد شهاب خليل
م / محمد

مهندس الشركة
م / محمد محمد احمد
م / محمد

المنطقة الخامسة - (غرب الدلتا)

السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار الكهربائي فائق السرعة (فوكا - مطروح) (القطاع السابع)
نتشرف بأن نرفق لسيادتكم طيه المقاييس المعدلة للقطاعات الآتية:

مسلسل	اسم الشركة	بداية القطاع (كم)	نهاية القطاع (كم)	اتجاه
1	شركة ايجي كونتراك (لصاحبها زكريا جابر قلدس)	507+000	509+000	استكمال برج العرب

برجاء من سيادتكم التفضل بالأحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الاحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة- غرب الدلتا

٢٠٢٥
١٩

عميد مهندس/

"هاني محمد محمود طه"



مشروع القطار الكهربائي السريع

المقاسة المعدلة لبنود الاعمال طبقا للمفاوضة بتاريخ (2023-12-18) للقطاع السابع (فوكه- مطروح) - شركة ايجي كونترك - اتجاه استكمال برج العرب
القطاع من المحطة 507+000 إلى المحطة 509+000 بطول 2 كم مرحلة تشكيل الجسور وطبقات التأسيس وخرسانات الميول

رقم البند	بيان الأعمال	الوحدة	الكمية	الغنة	الإجمالي
5	البلاطات الخرسانية				
5-1	بالمتر المسطح أعمال توريد وصب خرسانة عادية سمك 15 سم لحماية الاكتاف والميول الجانبية تتكون من 0.8 م 3 سن دولوميت متدرج + 0.4 م 3 رمل حرش والاضافات طبقا لتعليمات الاستشاري (فهر+سيكا) على أن يكون السن نظيف ومفصول والرمل خالي من الشوائب والطفلة والأملاح والمواد الغريبة مع وضع فوم (بالفاصل) بسمك 2 سم (طبقا لتعليمات الاستشاري) والبند يشمل تجهيز واستبدال مناسيب التربة الطبيعية أسفل البلاطة للوصول إلى المناسيب التصميمية على أن تحقق الخرسانة اجهاد لا يقل عن 250 كجم / سم 2 وتشطيب السطح وملء الفواصل بالبيتومين المرمل والتنفيذ طبقا لأصول الصناعة والرسومات التفصيلية المعتمدة والبند بجميع مشتملاته طبقا لمواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.	م 2			
5-1-1	عن شهر سبتمبر 2023 طبقا للمفاوضة	م 2	18,295.900	463.00	8,471,002
5-1-2	عن السعريته من 22/03/2024 طبقا للمفاوضة	م 2	16,010.772	464.00	7,428,998
	الإجمالي				15,900,000

(خمس عشر مليون وتسعمائة ألف جنيه فقط لا غير)

مدير عام المشروعات

م / محمد حمدي قياض

مدير المشروع المالك

م / ابراهيم عبدالله الحناوى

مدير المشروع الاستشاري مكتب 2 /

أ.د. خالد فتحي

مدير المشروع المقاول

م / محمد محمد احمد

يعتمد

رئيس الادارة المركزية

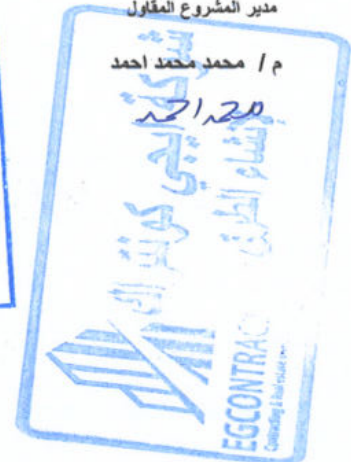
منطقة غرب الدلتا

الاسكندرية - مرسى مطروح

عميد مهندس /

" هاني محمد محمود طه "

٢٠٢٥ / ١٢ / ٢٩





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES **Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1991**

PROJECT	مشروع المطار السريع	STATION	SUTHELIEN/214/2-31	
Customer	EGY CONTRAC	Concrete Class/Type	F10	KO - OPC
Name of Item	جسر الخياط			
DATE OF CASTING	12-Dec-2023	PLACED STRENGTH	230	Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6	
CYB WETS SLUMP	Cm			
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	19-Dec-23	7	150	7942	1.29	873.0	364.8	365.2
2			150	7944	1.28	874.0	365.3	
3			150	7948	1.28	874.0	365.3	

MODES OF FAILURE AFTER BS 1881 - Part 116: 1983		122.1	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for reference control specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5kN/s to 0.6kN/s or (0.005 to 0.006N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
H. Mohamed	Abd. Adel	AMRATED
M. Mohamed	Abd. Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6710:1999

PROJECT	مشاريع مطار السويح	STATION	181-181-201-195 (1-5)
Customer	EGY CONTRAC	Concrete Cement Type	310 AC - OPC
Name of Item		الموقع	
DATE OF CASTING	12-Dec-2013	DESIGNED STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	9-Jan-14	28	150	8050	1.48	771.0	149.2	145.2
2			150	7918	1.38	848.0	164.1	
3			150	7971	1.38	793.0	149.2	

MODES OF FAILURE AS PER BS 1881:1983, 6897:1989, 6710:1999		145.7 القيمة
Satisfactory	Unsatisfactory	
Remarks:		
Results assessment is carried out in accordance with BS 1881:1983, 6897:1989, 6710:1999.		
Note: Part 116 is the recommended method for most specimens and is also covered within the laboratory code of practice.		
Note: T indicates tensile cracking.		
Remarks: Specified Loading Rate Range = 4.5MPH to 9.0 kN/s or (0.8MPH/s)		

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
A. Mohamed	Ahmed Abdel	
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT	مشاريع الطرق السريع		STATION					
Customer	EGY CONTRAC		Cement Content/Type : 318 kg - OPC					
STATION	ST-507+848-507+825L-S1 / ST-507+875-507+925L-D1							
DATE OF CASTING	13-Dec-2023		PLANNED STRENGTH :	250 kg/cm ²				
POURED QUANTITY		m ³	NO. OF CUBES MADE :	9				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub in water				
S. OF test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	18-Dec-23	7	150	8213	2.43	736.8	233.4	291.9
2			150	8046	2.39	688.8	246.4	
3			150	8165	2.42	695.6	275.9	

MODES OF FAILURE AS PER BS 1881 (Part 116) 1983		116.8	النسبة
Satisfactory	Unsatisfactory		
Remarks : Results assessment is carried out in accordance with BS 1881 Part 116 as the as received condition for most specimens or as the selected condition for satisfactory control specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 1.5kN/s to 3.0 kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (ISO/ASTM 687:1989, ASTM 199)

PROJECT	مطروح الطريق السريع	STATION
Contract	EGY CONTRAC	Contract Clause Type : 318 AG - 1995
STATION	ST: 507+648-507+825 (L-5-B1) : ST: 507+478-507+825 (L-5-B1)	
DATE OF CASTING	13-Dec-2013	COMPRESSIVE STRENGTH : 27.9 N/mm ²
POURED QUANTITY	m ³	VOL. OF CONCRETE USED : 4
CONCRETE SLUMP	cm	
TARGET SLUMP	cm	Test of (2.8mm) : Sub to water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	28-Dec-13	7	150	7640	1.30	647.0	293.3	278.4
2			150	8245	1.40	888.0	266.4	
3			150	7665	1.30	689.0	275.9	

MODES OF FAILURE AS PER BS 1881 - Part 116:1995		111.4	نسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Results determined in accordance with BS 1881</p> <p>Tested Part 116 in the air saturated condition for moist specimens or in the saturated condition for lightweight concrete specimens</p> <p>Note: T indicates incipient cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5N/MS to 0.6N/MS or 0.6N/MS</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Adel	AMR ATIF	
M. Mohamed	Ahmed Adel	[Signature]	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6891:1984, 6720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Control Type	100 KG - OPC
STATION	ST 007+840-007+825(L-R) / ST 007+978-007+925(L-R)		
DATE OF CASTING	13-Dec-2023	Failure Strength	248 Kg/cm ²
POURED QUANTITY		no. of cubes made	6
CONCRETE SLUMP			
TARGET SLUMP		type of curing	Sub to water

n. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (Kg/cm ²)	Average (kg/cm ²)
1	16-Jan-24	28	150	8122	1.40	771.8	149.3	145.7
2			150	8005	1.38	808.8	164.1	
3			150	8088	1.40	793.8	154.2	

MODES OF FAILURE ACUER BS 1881-Part 116:1983		145.7	القوية
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks :
 Results measurement is recorded and is accordance with BS 1881-Part 116 in the as received condition for most specimens or in the saturated condition for laboratory tested specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 8.0 kN/s or (4.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	AMR ATET
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6907:1988, ASTM:1991

PROJECT	مشاريع القمار السريع	STATION
Customer	EGY CONTRAC	Concrete Control Type: 310 NO - OPC
STATION	ST-587+040-587+025(L-S) / ST-587+076-587+025(L-S)	
DATE OF CASTING	13-Dec-2023	DESIGNED STRENGTH : 240 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub M Water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Jan-24	28	150	6172	2.41	746.0	337.9	319.3
2			150	6052	2.39	685.0	314.0	
3			150	6094	2.40	713.0	323.0	

MODES OF FAILURE AS PER BS 1881:1983, Part 116:1983		130.1	القيمة
Satisfactory 	Unsatisfactory 		
Remarks: Results measured & checked are in accordance with BS 1881:1983, Part 116 as the test was carried out in the correct condition for the test specimens as per the standard condition for satisfactory test specimens.			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 6.0kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC/MANAGER	
M. Mohamed	Ahmed Adel	AMRATER	
M. Mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (EN 12390-3:2002, ASTM C666)

PROJECT		طريق المطار الجديد		STATION	
CUSTOMER		FCV CONTRACT		Concrete Content Type: 118 kg/cum	
STATION		808+025-807+000 (A-B1) - 807+025-807+750 (1-A-B1)			
DATE OF CASTING		14-Dec-2013		DESIGNED STRENGTH: 250 kg/cm ²	
PURPOSE QUANTITY		m ³		NO. OF CUBES MADE: 8	
CUBES SIZE (mm)		150		Age at testing: 28 days	
TARGET STRENGTH		C.M.		Type of curing: Air dry	

No. Of cube	Date of Test	Age of Test (Days)	Average Compressive (mm ²)	Weight (g)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	25-Dec-23	7	150	3681	2.45	489.8	326.5	245.2
2			150	3675	2.45	412.8	271.2	
3			150	3686	2.45	441.4	288.4	

MADES OF FAILURE AFTER BS 1881 PART 116		117.3	نسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Specimen appearance is satisfactory & no abnormal results are observed.</p> <p>Test Report 116 is the recommended condition for most specimens & is the preferred condition for specimens used for design.</p> <p>Note: T indicates tensile cracking.</p> <p>Remarks: Specified Loading Rate Range = 0.25 N/s to 1.0 kN/s or 0.25 MPa/s to 1.0 MPa/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Abdel Adel	AND ATTY	
M. Mohamed	Abdel Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6893:1999, ASTM 1991

PROJECT	مشاريع القطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	210 kg - OPC
STATION	100+023-025+004(L-S-B1) / 025+023-001+701 (L-S-B1)	Concrete Strength	250 N/mm ²
DATE OF CASTING	14-Dec-2023	NO. OF CUBES MADE	8
POURED QUANTITY	m ³	TYPE OF CURING	Sub in water
CONCRETE SLUMP	cm		
TARGET SLUMP	cm		














No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	11-Dec-23	7	150	7000	2.34	240.0	160.0	279.4
2			150	7027	2.35	850.0	205.4	
3			150	8000	2.40	600.0	100.0	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		111.7	النسبة
<p>Rectangular</p> <p>Uniaxial</p>		<p>Notes:</p> <p>Results are recorded as per BS 1881 - Part 116:1983</p> <p>Results are recorded as per BS 1881 - Part 116:1983</p> <p>Results are recorded as per BS 1881 - Part 116:1983</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.25N/mm² to 0.50 N/mm² or (0.25N/mm²)</p>	

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	AMR ATY
M. Mohamed	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 114 (BSI AND 6897:1989, 6728:1991)

PROJECT	مشاريع المطار الجديد	STATION						
Customer	EGY CONTRAC	Concrete Content Type	210 kg - OPC					
STATION	1	500+513-507+084 (L-S) / 507+812-507+783 (R-S)						
DATE OF CASTING	14-Dec-2023	PROPOSED STRENGTH (MPa)	250 kg/cm ²					
POURED QUANTITY		m ³	NO. OF CUBES MADE : 8					
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water					
S. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	15-Jan-24	28	150	8607	2.38	182.8	156.2	145.4
2			150	8633	2.38	188.8	167.4	
3			150	8609	2.38	187.8	179.2	

MODES OF FAILURE AS PER BS 1881 - Part 114, 115						145.4	النسبة
Satisfactory			Unsatisfactory				
							
A	B	C					
							
							
			J	K	L		
Remarks : Results, measurements, & calculations are satisfactory and BS 1881 Part 114 is the as required condition for most specimens or in the required condition for laboratory used specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/s to 6.0 kN/s or (0.5kN/s)							
COMPANY ENGINEER		CONSULTANT ENGINEER		QC MANAGER			
H. Mohamed		Abdel Adel		AMR ATEF			
H. Mohamed		Abdel Adel					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6726:1991

PROJECT		طريق المطار السريع		STATION	
Customer		EGY CONTRAC		Concrete Content Type: 100 kg - OPC	
STATION		888+823.887-894 (L-5) / 889+822.887-783 (L-50)		Required Strength: 100 kg/cm ²	
DATE OF CASTING		14-Dec-2013		No. of Cured Mass: 6	
POURED QUANTITY		m ³		Type of Curing: Sub in water	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm			

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	15-Jan-14	28	150	886.7	1.19	928.0	426.4	413.0
2			150	885.3	1.19	880.0	368.4	
3			150	881.9	1.19	927.0	419.9	

105.2 النسبة

MODES OF FAILURE AS PER BS 1881 - Part 116 - 178

Satisfactory

Unsatisfactory

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

Remarks:
 Results determined in accordance with standard BS 1881 Part 116 or 118 or relevant standard for test specimens or in the national standard for laboratory control documents.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 10 kN/s or (0.8 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mahamed	Ahmed Abdel	AMR ATIF
M. Mahamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6718:1999

PROJECT	مشاريع الطرق	STATION	
Customer	EDV CONTRAC	Cement Concrete Type	110 KG - OPC
STATION :	100+010.0 - 100+020.0 (L-S) B1		
DATE OF CASTING	16-Dec-2023	REQUIRED STRENGTH	150 kg/cm ²
PLURED QUANTITY	m ³	NO. OF TYPES MADE	6
CONCRETE SLUMP	Com		
TARGET SLUMP	Com	TYPE OF CURE	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	15-Dec-23	7	150	7045	2.32	615.0	179.4	182.1
2			150	8079	2.34	612.0	181.8	
3			150	8076	2.34	611.0	185.8	

112.8 القيمة

NOTES OF FAILURE AS PER BS 1881 - Part 116:1983

Satisfactory

Unsatisfactory



Remarks:

Concrete measurement is carried out in accordance with BS

states that 1.5 is the minimum condition for most specimens are

in the required condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 (kN/s) to 9 (kN/s) or (6-16 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
m. mohamed	Abdul Adel	
m. mohamed	Abdul Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6718:1991

PROJECT	مشاريع القطار السريع		STATION					
Customer	EGY CONTRAC		Concrete Class/Type : 318 RG - OPC					
STATION	507+803-507+981 (L-D) / 507+837-507+792 (L-D)							
DATE OF CASTING	16-Dec-2023		PLACED STRENGTH :	250 K _g /cm ²				
POURED QUANTITY		m ³	NO. OF CUBES MADE :	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub in water				
s. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength K _g /cm ²	Average kg/cm ²
1 -	13-Dec-23	7	150	7938	2.34	985.0	265.0	297.3
2			150	8048	2.34	683.0	313.0	
3			150	8041	2.38	691.0	313.0	

MODES OF FAILURE AS PER BS 1881- Part 116-1983		118.9	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results assessment is carried out in accordance with BS 1881 Part 116 in the specified condition for most specimens are in the specified condition for specimens used and used

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.16N/s to 0.0 N/s or (0.6N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Abdel	
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1986 AND 6897:1999, 6726:1999

PROJECT	مشروع الطرق السريع	STATION	
Contract	EGY CONTRAC	Concrete Content Type	310 AGG - OPC
STATION	588+024.0 - 588+029.0 (L-S) B1		
DATE OF CASTING	18-Dec-2013	PLASTERED DIMENSION	150 mm ³
PIECES QUANTITY	3	NO. OF CURING WATER	6
CONCRETE SLUMP	150 mm		
TARGET SLUMP	150 mm	TYPE OF SURFACE	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	13-Jan-14	28	150	7038	2.35	866.0	577.3	577.3
2			150	6947	2.32	883.0	588.0	
3			150	6947	2.32	866.0	577.3	

MODES OF FAILURE ALPER BS 1881 - Part 116: 1986						157.3	النسبة
Satisfactory			Unsatisfactory				
							
							
							

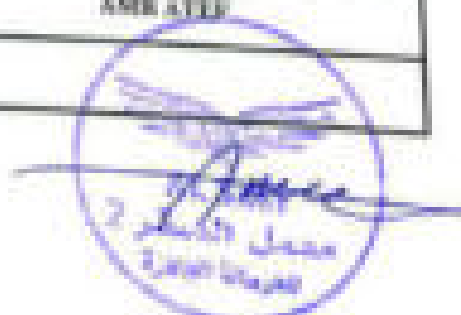
Remarks:

Results are presented in accordance with BS 1881:1986 Part 116:1986 and 6897:1999, 6726:1999.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5 MPa/s to 0.8 MPa/s or (0.5 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mohamed	Abd Al	AMR ATER
m. mohamed	Abd Al	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6718:1991

PROJECT	طريق الجبل الجديد	STATION	100	KG - OPC
Customer	EGY CONTRACT	Concrete Content Type	100	KG - OPC
STATION	100-100-100-100-100	100 / 100-100-100-100-100	100	KG - OPC
DATE OF CASTING	18-Dec-2023	DATE OF TESTING	18-Dec-2023	KG - OPC
NUMBER OF CUBES	10	NUMBER OF CUBES	10	KG - OPC
TYPE OF CEMENT	CEM I	TYPE OF CEMENT	CEM I	KG - OPC
TYPE OF CEMENT	CEM I	TYPE OF CEMENT	CEM I	KG - OPC
Age of Test (Days)	28	Age of Test (Days)	28	KG - OPC
Average Dimension (mm)	150	Average Dimension (mm)	150	KG - OPC
Weight (kg)	10.5	Weight (kg)	10.5	KG - OPC
Density (kg/m³)	2.35	Density (kg/m³)	2.35	KG - OPC
Failure Load (kN)	100.0	Failure Load (kN)	100.0	KG - OPC
Comp. Strength (kg/cm²)	411.3	Comp. Strength (kg/cm²)	411.3	KG - OPC
Average	411.3	Average	411.3	KG - OPC

181.5

MODES OF FAILURE AS PER BS 1881: Part 116: 1983

Standard

Unstandard

Remarks:

Specified Loading Rate Range = 4 kN/s to 9 kN/s or 10 kN/s

COMPANY ENGINEER

CONSULTANT ENGINEER

Q.C. MANAGER

M. Mohamed

Abd. Adel

M. Mohamed

Abd. Adel

Signature



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6710:1991

PROJECT	مشروع الطرق السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	508+024-508+025 (L-D) / 507+789-507+788 (L-D)		
DATE OF CASTING	17-Dec-2023	ACHIEVED STRENGTH	250 Kg/cm ²
PURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP	Com		
TARGET SLUMP	Com	TYPE OF CURING	Sub in water

S. Of no	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	14-Dec-23	7	150	7935	1.95	627.0	253.1	258.4
2			150	8245	1.44	888.0	266.4	
3			150	7905	1.34	609.0	275.9	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		111.4	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Density measurement is carried out in accordance with BS 1881 Part 114 as the required condition for most specimens are in the required condition for laboratory used specimens.

Note: T indicates tensile strength

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Abdel	
ys. mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part III (BS 1881-3:1983, 4720:1991)

PROJECT	مشاريع القنار السريع		STATION		
Customer	EGY CONTRAC		Concrete Content Type	100	KG - OPC
STATION	500+034-500+035 (L-R) / 501+700-501+700 (L-R)				
DATE OF CASTING	17-Dec-2023		Specimen Size (mm)	250	kg/cm ²
POURED QUANTITY		m ³	Vol. of Comp. Mass	0	
CONCRETE SLUMP		cm			
TARGET SLUMP		cm	TYPE OF CURING	Sub in water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	14-Jan-24	28	180	7035	1.35	854.0	287.2	282.8
2			180	8245	1.44	687.0	211.2	
3			180	7905	1.34	682.0	208.9	

MODES OF FAILURE AS PER BS 1881 - Part III, 1983		121.0	القيمة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
		 E	 F
		 G	 H
		 I	 J
		 K	 L
		 M	 N
		 O	 P
		 Q	 R
		 S	 T
		 U	 V
		 W	 X
		 Y	 Z
		 AA	 AB
		 AC	 AD
		 AE	 AF
		 AG	 AH
		 AI	 AJ
		 AK	 AL
		 AM	 AN
		 AO	 AP
		 AQ	 AR
		 AS	 AT
		 AU	 AV
		 AW	 AX
		 AY	 AZ
		 BA	 BB
		 BC	 BD
		 BE	 BF
		 BG	 BH
		 BI	 BJ
		 BK	 BL
		 BM	 BN
		 BO	 BP
		 BQ	 BR
		 BS	 BT
		 BU	 BV
		 BW	 BX
		 BY	 BZ
		 CA	 CB
		 CC	 CD
		 CE	 CF
		 CG	 CH
		 CI	 CJ
		 CK	 CL
		 CM	 CN
		 CO	 CP
		 CQ	 CR
		 CS	 CT
		 CU	 CV
		 CW	 CX
		 CY	 CZ
		 DA	 DB
		 DC	 DD
		 DE	 DF
		 DG	 DH
		 DI	 DJ
		 DK	 DL
		 DM	 DN
		 DO	 DP
		 DQ	 DR
		 DS	 DT
		 DU	 DV
		 DW	 DX
		 DY	 DZ
		 EA	 EB
		 EC	 ED
		 EE	 EF
		 EG	 EH
		 EI	 EJ
		 EK	 EL
		 EM	 EN
		 EO	 EP
		 EQ	 ER
		 ES	 ET
		 EU	 EV
		 EW	 EX
		 EY	 EZ
		 FA	 FB
		 FC	 FD
		 FE	 FF
		 FG	 FH
		 FI	 FJ
		 FK	 FL
		 FM	 FN
		 FO	 FP
		 FQ	 FR
		 FS	 FT
		 FU	 FV
		 FW	 FX
		 FY	 FZ
		 GA	 GB
		 GC	 GD
		 GE	 GF
		 GG	 GH
		 GI	 GJ
		 GK	 GL
		 GM	 GN
		 GO	 GP
		 GQ	 GR
		 GS	 GT
		 GU	 GV
		 GW	 GX
		 GY	 GZ
		 HA	 HB
		 HC	 HD
		 HE	 HF
		 HG	 HH
		 HI	 HJ
		 HK	 HL
		 HM	 HN
		 HO	 HP
		 HQ	 HR
		 HS	 HT
		 HU	 HV
		 HW	 HX
		 HY	 HZ
		 IA	 IB
		 IC	 ID
		 IE	 IF
		 IG	 IH
		 II	 IJ
		 IK	 IL
		 IM	 IN
		 IO	 IP
		 IQ	 IR
		 IS	 IT
		 IU	 IV
		 IW	 IX
		 IY	 IZ
		 JA	 JB
		 JC	 JD
		 JE	 JF
		 JG	 JH
		 JI	 JJ
		 JK	 JL
		 JM	 JN
		 JO	 JP



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116/DIN EN 607:1999, 6720:1991

PROJECT	مشاريع الطرق السريعة	STATION
Contract	EGY CONTRAC	Contract Contract Type 100 KG-000
STATION	S00+074+000-080+000 (L-S-B1) / S07+480+000-780 (L-S-B1) S08+030+000-040+000 (L-S-B1)	
RATE OF CASTING	19-Dec-2023	Placed concrete : 200 kg/m ³
POURED QUANTITY	m ³	No. of cubes made : 6
CURE WITH SLUMP	cm	
TARGET SLUMP	cm	Type of curing : Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	24-Dec-23	7	150	8078	2.36	540.0	344.8	279.4
2			150	8140	2.43	635.0	385.4	
3			150	7995	2.37	480.0	308.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1991		111.7	السحب
Satisfactory	Unsatisfactory		
Remarks : Specified Loading Rate Range = 0.5 kN/s to 0.8 kN/s or (0.5 kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Ahmed Abdel	AMR ATUF	
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	100 RL - OPC
STATION	588+074-588+080 (L-N-B1) / 587+481-587+780 (L-N-B1) 588+015-588+040 (L-N-B1)		
DATE OF CASTING	19-Dec-2013	Specimen Strength	240 kg/cm ²
REQUIRED QUANTITY	m ³	No. of cubes made	6
CONCRETE SLUMP	Cm	TYPE OF CURING	Sub in water
CURED SLUMP	Cm		

S. Of cube	Date of Test	Age of Test (Days)	Average Humidity (mm %)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	26-Dec-23	7	130	8145	2.41	455.0	294.7	283.6
2			130	8140	2.41	455.0	276.3	
3			130	8100	2.40	455.0	275.8	

MODE OF FAILURE AS PER BS 1881 - Part 116:1983		112.6	الب
DEFECTIVE	UNDEFECTIVE		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Results determined in accordance with BS 1881
 BS 1881 Part 116 is the standard condition for most specimens of concrete
 in the standard condition for testing and strength

Note: T indicates tensile strength

Remarks: Specified Loading Rate Range = 4 MPa/s to 10 MPa/s (0.5 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QM/MANAGER
M. Mohamed	Ahmed Abdel	AMR ALI
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4097, 1989, 4728:1991

PROJECT	مشروع القطر السريع	STATION
Customer	EGY CONTRACT	Contract Contract Type 118 NO. - OPC
	985+07.000-1000(L-C&E)	985+081-985+780 (L-C&E)
STATION	985+055-985+060 (S-B)	
DATE OF CASTING	15-Dec-2023	Age when tested (Days) : 28
FORMWORK QUANTITY	m ²	Area of tested face : 8
CURING METHOD	Cu	
TARGET STRENGTH	Cu	Tested in water

No. Of test	Date of Test	Age of Test (Days)	Average Mass (kg)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	16-Jan-24	18	138	8727	1.41	918.0	414.8	404.7
2			138	8708	1.41	918.0	414.8	
3			138	8694	1.40	918.0	395.1	

MODELS OF FAILURE AS PER BS 1881 - Part 116:1983		161.9	القوة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 116 in the laboratory condition for most specimens or in the intended condition for alternative tested specimens.

Note: - T indicates tensile cracking.

Remarks: Specified Loading Rate Range = 4.5N/s to 9.5N/s or 0.5MPa/s

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	AMR ATIF
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 (BS 1881, 116:1983)

PROJECT	مشاريع الطرق الجديدة	STATION
Customer	EGY CONTRAC	Concrete Column/Pipe 100 800 - 1000
STATION	100+074.000-0800 (A-B1) / 1007+487.000-7500 (A-B12) 100+074.000-0800 (A-B1)	
DATE OF CASTING	19-Dec-2023	Preparation of cube = 170 kg/cm ²
POURED QUANTITY	m ³	no. of cubes made = 8
CURING METHOD	Cm	
TARGET SLUMP	Cm	100 to 110 mm / 4 in to 4.5 in

S. No	Date of Test	Age of Test (Days)	Average	Weight	Density	Failure Load	Comp. Strength	Average
			(kg/cm ²)	(g)	(kg/m ³)	(kN)	(kg/cm ²)	(kg/cm ²)
1	19-Dec-24	28	140	8140	2.40	880.0	403.2	404.5
2			150	8100	2.40	870.0	401.8	
3			150	8000	2.40	877.0	407.1	

100 to 110 mm / 4 in to 4.5 in Satisfactory		100 to 110 mm / 4 in to 4.5 in Unsatisfactory

Note: 1 indicates tensile cracking

Remarks: 1. Specified Compressive Strength Range = 40 N/mm² to 45 N/mm² (40 to 45 MPa)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	AMR ATY
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, ASTM:1999

PROJECT	طريق المطار الجديد	STATION	
CONTRACT	EDY CONTRACT	Concrete Content Type	318 kg - 09%
STATION	M-308+025-400+000 (L-B-B1) / M-308+077-300+000 (L-B-B1) M-307+703-307+703 (L-B1) / M-308+003-308+100 (L-B-B1)		
DATE OF CASTING	20-Dec-2023	TESTING STANDARD	250 kg/cm ²
FORMED DENSITY		NO. OF CUBES MADE	8
CONCRETE SLUMP	Com	TYPE OF CURING	Sub in water
TARGET SLUMP	Com		

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	23-Dec-23	T	150	8145	2.41	668.8	291.7	283.4
2			150	8160	2.40	636.8	281.6	
3			150	8135	2.41	636.8	279.8	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		114.2	القيمة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results measured in accordance to standards BS 1881

Tested Part was in the as-received condition for test specimens as per the approved conditions for delivery and test specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.2kN/s to 8.0 kN/s or (4.2kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 124 (ENLAD 609:1996, ASTM 199)

PROJECT	مشاريع الطرق السريعة	STATION
Contract	EGY CONTRACT	Contract Clause/Type 110 MS - 1995
STATION	K-1000+000+000 (D-80) / K-1000+000+000 (D-80) K-100+000+000 (D-80) / K-100+000+000 (D-80)	
DATE OF CASTING	28-Dec-2023	Specimen Dimensions : 150 mm
TESTING QUANTITY	m ³	No. of cubes made : 6
CONCRETE SLUMP	cm	
TARGET SLUMP	cm	Sub to water

S. OF test	Date of Test	Age of Test (Days)	Average Moisture (mm ³)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	17-Jan-24	28	150	8880	2.36	892.8	248.3	248.8
2			150	8894	2.39	876.8	247.8	
3			150	8938	2.41	895.8	254.1	

MODULUS OF FAILURE AS PER BS 1881 - Part 124 - 1996 107.2 kg/cm²		
Satisfactory 	Unsatisfactory 	
Remarks : Results measured & carried out in accordance with BS 1881 Part 124 to the test method specified for cube specimens or to the accepted method for alternative test specimens. Note : T indicates tensile strength. Remarks : Specified Loading Rate Range = 0.25 N/mm ² to 1.0 N/mm ² or (0.0025 to 0.01 mm/min)		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
A. Mohamed	Ahmed Adel	AMR ATED
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 119 (EN 12390-1:1995, 4730:1999)

PROJECT	ملف مشروع المطار الجديد	STATION	
Customer	RTV CONTRACT	Concrete Class/Type	110 400 - 100%
SECTION	$\frac{1000 \times 1000 \times 1000 \times 1000 \times 1000}{1000 \times 1000 \times 1000 \times 1000 \times 1000} = 1.0$ / $\frac{1000 \times 1000 \times 1000 \times 1000 \times 1000}{1000 \times 1000 \times 1000 \times 1000 \times 1000} = 1.0$ / $\frac{1000 \times 1000 \times 1000 \times 1000 \times 1000}{1000 \times 1000 \times 1000 \times 1000 \times 1000} = 1.0$		
DATE OF CASTING	21-Dec-2023	Concrete Density	2500 kg/m ³
FORMWORK QUANTITY		No. of cubes made	8
CONCRETE SLAB THK			
CURBED SLAB THK		TYPE OF CURBING	Sub in water

No. Of Test	Date of Test	Age of Test (Days)	Average Mass (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	24-Dec-23	7	110	2410	645.0	259.2	259.2
2			110	2400	615.0	248.0	
3			110	2410	610.0	248.0	

SERIES OF FAILURE AL PER BS 1881 - Part 119 (EN 12390-1:1995, 4730:1999)		113.4	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Results are in accordance with BS 1881 - Part 119 (EN 12390-1:1995, 4730:1999)</p> <p>Tested at 100% of the design strength for 100% acceptance</p> <p>For the purpose of the test, the concrete was tested at 100% of the design strength</p>			
<p>Note: 1. Indicate the results of the test</p>			
<p>Remarks: Specified Loading Rate Range = 0.25 MPa/s to 0.5 MPa/s (or 0.25 MPa/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QA MANAGER	
M. Mohamed	Ahmed Abdel		
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BSI AND 6897:1988, 6726:1991)

PROJECT		طريق مطار الشيخ		STATION	
Customer		EGY CONTRAC		Concrete Cube Type 318 NO. - OPC	
STATION		1		Concrete Cube Type 318 NO. - OPC	
DATE OF CASTING		11-Dec-2023		Concrete Strength : 250 N/mm ²	
POURED QUANTITY		m ³		No. of cubes made : 6	
CEMENT BRAND		Cm		Type of curing : Sub in water	
TARGET SLUMP		Cm			

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average N/mm ²
1	18-Dec-23	7	150	8120	1.41	411.0	176.8	184.2
2			150	8100	1.40	425.0	185.1	
3			150	8110	1.40	457.0	199.8	

MODES OF FAILURE AL PER BS 1881 - Part 116 - 1988		114.1	القيمة
Satisfactory		Unsatisfactory	

Remarks:
 Results are recorded in accordance with BS 1881-116
 Note: Page 116 in the BS standard contains the test specimens in the standard positions for reference used specimens

Note : T indicates visible cracking

Remarks : Specified Loading Rate Range = 1.25 MPa/s to 1.0 MPa/s up to 0.5 MPa/s

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Abdul Adel	AMR ATIF
M. Mohamed	Abdul Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (PRACTICE 6897:1999, 6716:1991)

PROJECT	ملف مشروع المطار الجديد		STATION	Constant Concrete Type 100 801 - 095	
Customer	EDV CONTRAC		Concrete	Concrete Type 100 801 - 095	
STATION	100-801-095-001 (L-D-B) / 100-801-095-002 (L-D-B) 100-801-095-003 (L-D-B) / 100-801-095-004 (L-D-B)		Concrete	Concrete Type 100 801 - 095	
DATE OF CASTING	21-Dec-2013		Concrete	Concrete Type 100 801 - 095	
POURED QUANTITY	m³		Concrete	Concrete Type 100 801 - 095	
CONCRETE SLUMP	cm		Concrete	Concrete Type 100 801 - 095	
TARGET SLUMP	cm		Concrete	Concrete Type 100 801 - 095	

No. Of test	Date of Test	Age of Test (Days)	Average (mm)	Weight (kg)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	18-Jan-14	28	138	8870	1.39	855.0	187.2	188.0
2			138	8872	1.41	855.0	188.0	
3			138	8870	1.41	855.0	188.0	

150.3 **القيمة**

MODELS OF FAILURE AS PER BS 1881 - Part 116 - 1991

Satisfactory

Unsatisfactory

Note: 1 indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.2kN/s to 0.4kN/s or 0.2kN/s

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
Mr. Mohamed	Ahmed Adel	AMR ATEF
Mr. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BS EN 12390-3:2002, ASTM C109)

PROJECT	طريق المطار الجديد	STATION						
Customer	ECV CONTRACT	Contract Contract Type : 100 % - 100%						
STATION	a/ 500+000 - 500+000 (1-2-3) / a/ 500+000 - 500+000 (1-2-3) a/ 507+000 - 507+000 (1-2-3) / a/ 507+000 - 507+000 (1-2-3)							
DATE OF CASTING	21-Jun-2023	Required strength : 250 kg/cm ²						
FIXED QUANTITY	m ³	No. of cubes made : 9						
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm	Sub to water						
S. Of test	Date of Test	Age of Test (Days)	Average Mass (kg)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	28-Jun-24	28	150	2414	1.17	811.0	266.8	266.8
2			150	2407	1.18	804.0	261.8	
3			150	2442	1.41	808.0	269.4	

INDEX OF CUBES AS PER BS 1881 Part 116 - 100%		155.5	النسبة
Satisfactory		Unsatisfactory	

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
A. Mohamed	Ahmed A. A.	AMR. ATSI
A. Mohamed	Ahmed A. A.	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 119:1983 AND BS 1881:1983, 4718:1993

PROJECT	طريق مطار الجديد	STATION	118
CONTRACT	ROY CONTRACT	Concrete Content Type	NO - OPC
STATION	4000+481 to 407+478 (L.A.B) / 4000+488 to 407+445 (L.A.B) / 4000+447 to 400+474 (L.A.B) / 4000+484 to 400+479 (L.A.B)		
DATE OF CASTING	13-Dec-2023	NUMBER OF TESTS	3
NUMBER QUANTITIES	1	NO. OF CUBES MADE	3
CONCRETE SLUMP	100	TYPE OF CURING	Sub in water
CURED SLUMP	100		

No. Of test	Date of Test	Age of Test (Days)	Average Moisture	Weight (kg)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	30-Dec-23	7	100	8000	2.40	720.0	120.0	120.0
2			100	8000	2.37	680.0	101.2	
3			100	8020	2.38	690.0	112.0	

NOTES ON FAILURE AFTER 28 DAYS FOLLOWING

Satisfactory



Remarks:

Results were checked and found to be correct. (100%)
 (100%) Part 119 to the BS standard variation for water specimens in
 to the standard condition for laboratory tested specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.0 MPa/s to 0.2 MPa/s or (0.04 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Mohamed Adel	AMRATY
M. Mohamed	Mohamed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 119:1983 AND 4097:1989, 4720:1993

PROJECT	مطابق العقد السيد	STATION	110 NO. - DPS
CLIENT	EGY CONTRAL	Concrete Content Type	100 kg/cm ²
STATION	42507+451 to 507+478 (L.S.B.I) / 42507+486 to 507+448 (L.S.B.I) / 42508+447 to 508+474 (L.S.B.I) / 42508+504 to 508+517 (L.S.B.I)		
DATE OF CASTING	13-Dec-2023	PLACED STRENGTH	100 kg/cm ²
PLACED QUANTITY	m ³	NO. OF CUBES MADE	8
CONCRETE SLUMP	cm	TYPE OF CURING	Salt in water
SLACKY SLUMP	cm		

No.	Of cast	Date of Test	Age of Test (Days)	Average dimension (mm)	Weight (g)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1		30-Dec-23	7	150	8127	2.47	691.8	213.8	203.2
2	150			7980	2.36	671.8	201.3		
3	150			8040	2.42	696.8	215.3		

121.3
 القيمة

MODES OF FAILURE AS PER BS 1881, Part 119:1983

Reluctant



Remarks:

Results are correct as indicated by specimens with 28 days test 118 in the air cured condition for most specimens or in the saturated condition for specimens used for design

Note: T indicates visible cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 9.0 kN/s or (0.2 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	 AMR ATUF
M. Mohamed	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BS 1881-116:1983, ASTM 1991)

PROJECT		طريق المطار الجديد		STATION	
Contract		ELY CONTRACT		Concrete Contract Type III K2 - 10%	
STATION		W207+001 to 207+076 (L.A.R1) / W207+000 to 207+048 (L.A.R1) / W208+001 to 208+074 (L.A.R1) / W208+104 to 208+119 (L.A.R1)			
DATE OF CASTING		15-Nov-1993		Required Strength 110 Kg/cm²	
POURING QUANTITY		m³		NO. OF CUBES MADE 6	
CONCRETE SLUMP		cm		TYPE OF CUBES cube in water	
TARGET SLUMP		cm			

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	26-Jun-94	29	150	8133	1.40	774.0	258.0	259.1
2			150	8008	1.37	768.0	261.3	
3			150	7998	1.37	806.0	269.1	

MODES OF FAILURE AFTER BS 1881 - PART 116:1983

Specimens



A B C

Standard



D E F G H I

Remarks:

Specimens measured & tested within 28 days of casting

Specimens kept 120 days before measured condition for water absorption test

Specimens returned condition for subsequent testing

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5kN/s to 0.8kN/s or 0.1kN/s

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	
M. Mohamed	Ahmed Adel	

AMIR ATIF



15/11/93

15/11/93

15/11/93



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 124(1983) AND 6897:2009, 6716:1999

PROJECT	مشروع التطوير السريع		STATION					
Customer	EGY CONTRAC		Concrete Content Type: 110 KG - OPC					
STATION	44.007+450 to 447+470 (L.S.B1) / 44.007+480 to 447+490 (L.S.B1) / 44.000+497 to 448+510 (L.S.B1) / 44.000+500 to 448+510 (L.S.B1)							
DATE OF CASTING	13-Dec-2023		Required strength :	110 N/mm ²				
FORMWORKS WHITE		m ²	Top up to 1000 mm :	0				
CONCRETE SLUMP		cm						
CURRYT SLUMP		cm	Tested at 1000mm Sub in water					
No. Of test	Date of Test	Age of Test (Days)	Average Mass (kg)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average N/mm ²
1	20-Jan-24	28	150	8078	1.70	798.0	532.1	544.2
2			150	8149	1.71	687.0	401.7	
3			150	8063	1.70	638.0	375.3	

TABLES OF FAILURE AS PER BS 1881 Part 124:1983		140.7	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results are satisfactory as tested per BS 1881:1983 Part 124			
Refer Part 114 of the BS 1881 and consider for most specimens as in the proposed conditions for laboratory tested specimens			
Note - 1 indicates brittle cracking			
Remarks - 1 Specified Loading Rate Range = 4.75N/s to 9.0N/s or 0.05N/s to 0.15N/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Ahmed Adel		
M. Mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 114:1983 AND 4097:1985, 4728:1993

PROJECT	مشاريع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Concrete Type	300 85 - OPC
STATION	at 500+040 500+071 L-0 / at 500+123- 500+131 L-0		
DATE OF CASTING	14-Dec-2023	PLASTER STRENGTH	280 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	8
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. Of ex	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	31-Dec-23	7	150	8129	2.41	705.0	321.3	321.7
2			150	7967	2.36	705.0	342.0	
3			150	8031	2.36	730.0	324.8	

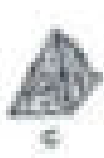
133.1

النسبة

MODES OF FAILURE AS PER BS 1881 : Part 118:1983

Satisfactory

Unsatisfactory




Remarks:

Results determined in accordance with BS 1881

BS 1881 Part 114 as the test specimens were prepared in the same manner as the specimens used for the test.







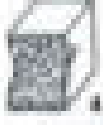










Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.2KN/S to 0.0 KN/S or (0.0KN/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M-mohamed	Abdul Adel	
M-mohamed	Abdul Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 4720:1991

PROJECT		مطروح القطار السريع		STATION				
Customer		EGY CONTRAC		Cement Content/Type 310 KG - OPC				
STATION 1		at 500+101.500+104 L-D / at 507+000-507+040 L-D						
DATE OF CASTING		24-Dec-2023		DESIGNED STRENGTH : 250 Kg/cm ²				
POURED QUANTITY		m ³		NO. OF CUBES MADE : 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water				
No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Dec-23	7	150	7836	2.32	839.0	388.1	329.6
2			150	8030	2.38	878.0	361.8	
3			150	8114	2.43	966.0	347.8	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						131.9	النسبة
Satisfactory			Unsatisfactory				
							
							
							
Remarks :							
Results measurement is carried out in accordance with BS 1881 Part 114 in the air cured condition for most specimens and in the saturated condition for intensive and specimens							
Note : T indicates tensile cracking							
Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)							
COMPANY ENGINEER		CONSULTANT ENGINEER		Q.C MANAGER			
							
							

27


28



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 4710:1991

PROJECT	مشروع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	310 RC - OPC
STATION	at Km 104+500+075 L-B / at Km 121+500+131 L-B		
DATE OF CASTING	24-Dec-2023	Specified Strength	250 K _g /cm ²
POURED QUANTITY	m ³	Nb. of cubes made	6
CURING BY SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. OF cur	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (K _g /cm ³)	Failure Load (kN)	Comp. Strength K _g /cm ²	Average K _g /cm ²
1	21-Jan-24	18	150	8058	1.29	678.0	307.1	314.8
2			150	8086	1.40	711.0	321.1	
3			150	8117	1.41	696.0	315.3	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		125.9	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E		 F	 G
 H		 I	 J
Remarks: Results measurement is carried out in accordance with BS 1881 Part 116 in the as-received condition for most specimens and in the saturated condition for minimum number specimens. Note: T indicates tensile cracking. Remarks: Specified Loading Rate Range = 4.34MPa/s to 9.0 MPa/s or (5.8MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Mr. Mohamed	Abdullah Adat		
Mr. Mohamed	Abdullah Adat		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BSI AND BSPT, 1989, 8726:1993)

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	C15 RC - OPC
STATION	K1500+101.000+110 L-07 / K1507+000.000+000 L-08		
DATE OF CASTING	24-Jun-2013	Specimen Strength	250 N/mm ²
FINISHED QUANTITY		Vol. of concrete used	4 m ³
CONCRETE SLUMP		Vol. of concrete	Sub to water
TARGET SLUMP		Vol. of concrete	Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average N/mm ²
1	21-Jun-14	28	150	8093	2.40	682.6	454.9	133.4
2			150	8086	2.40	689.6	457.1	
3			150	8140	2.41	827.0	543.2	

MODES OF FAILURE AS PER BS1881: Part 116: 1981		133.4	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results measurement accepted and is accordance with BS 1881 Part 116 in the as received condition for most specimens are in the unsatisfactory condition for laboratory tested specimens.			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.5 kN/s or (0.8kN/s)			

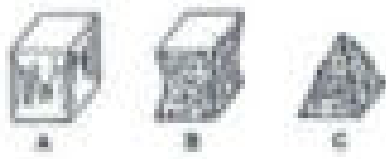
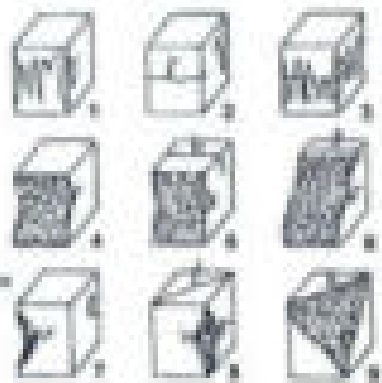

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Abdul Aziz	
M. Mohamed	Abdul Aziz	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4728:1991

PROJECT	مشروع المطار السريع	STATION	
CONTRACT	EGY CONTRAC	Cement Content/Type	310 kg - OPC
STATION	1	at 500+100-500+120 L-D-B ₁	
DATE OF CASTING	15-Dec-2023	PORE PRESS STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	Nº OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	1-Jan-24	7	150	7774	2.30	655.0	205.3	201.4
2			150	7736	2.29	641.0	200.4	
3			150	7794	2.30	656.0	205.3	












MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		120.8	النسبة
Satisfactory		Unsatisfactory	
			
Remarks: Specimens were tested in accordance with BS 1881 Part 116 in the specified conditions for test specimens and in the specified conditions for laboratory test specimens.			
Note: T indicates tensile cracking.			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.8kN/s).			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
m. mohamed	Ahmed Adel		
m. mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4728:1994

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	C18 RC - OPC
STATION		at Mid- (25-500+128 L.D. R)	
DATE OF CASTING	15-Dec-2023	POURING STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NOL OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	21-Jan-24	28	150	7990	2.77	847.0	282.7	286.1
2			150	8012	2.77	888.0	287.3	
3			150	7918	2.74	888.0	287.3	

MODES OF FAILURE AS PER BS 1881: Part 116: 1983						154.4	النسبة
Satisfactory			Unsatisfactory				
							
A	B	C					
							

Remarks:

Density measurement is carried out in accordance with BS 1881: Part 114 in the 28 standard condition for test specimens and in the saturated condition for dimension and moisture

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5MPH to 0.8MPH or (0.5MPH)



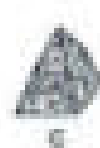









COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
mm-mohamed	Ahmed Abdel	AND REEF
mm-mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6091:1985, 6728:1991

PROJECT	مشاريع الطرق السريع	STATION	
CONTRACT	EGY CONTRAC	Concrete Control Type	118 KG - OPC
STATION		or 500+100-500+134 L-B	
DATE OF CASTING	26-Dec-2023	expected strength	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water


n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) 1.	Weight (g)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	2-Jan-24	7	150	7640	2.26	806.0	365.1	386.7
2			150	7728	2.29	871.0	395.0	
3			150	7728	2.29	885.0	400.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		154.7	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
		 4	 5	 6	
		 7	 8	 9	

Remarks : Results measurement is carried out in accordance with BS 1881 Part 116 in the air cured condition for normal specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (5.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Abdullah Ashraf	
M. Mohamed	Abdullah Ashraf	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6092:1985, 6720:1991

PROJECT	مطروح القطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	C10 R10 - C10
STATION			at 500+200-500+210 L-S
DATE OF CASTING	26-Dec-2023	PLACED STRENGTH	150 N/mm ²
POURED QUANTITY		NO. OF CUBES MADE	4
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

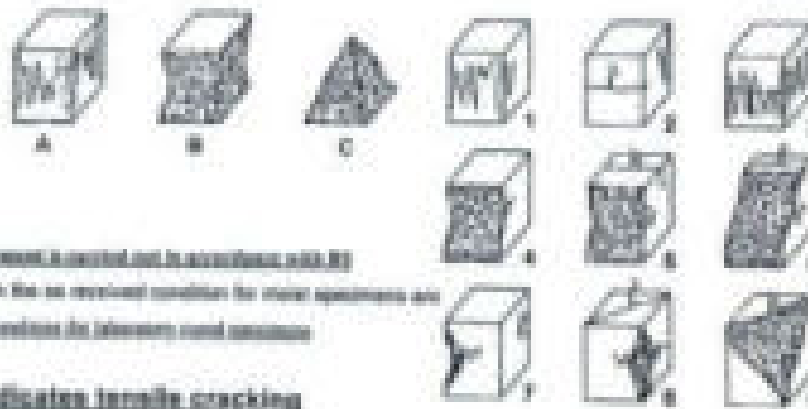
S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	2-Jan-24	7	150	7548	2.39	865.0	364.7	373.0
2			150	7822	2.32	901.0	408.2	
3			150	7712	2.29	764.0	364.3	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

149.2 الكسبه

Satisfactory

Unsatisfactory



Remarks:

Density measurement is carried out in accordance with BS

1881: Part 116 as far as required condition for most specimens are in the required condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.2MN/s to 0.6MN/s or (0.6MPN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Abdullah Adel	
M. Mohamed	Abdullah Adel	


















DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT		مطروح المطار السريع		STATION	
Customer		EGY CONTRAC		Concrete Column Type 110 NO. OF CFC	
STATION					
DATE OF CASTING		25-Dec-2013		at 100+000-100+124 L+R	
POURED QUANTITY				POURED STRENGTH : 250 kg/cm ²	
CONCRETE SLUMP		cm		NO. OF CUBES MADE : 4	
TARGET SLUMP		cm			
		cm		TYPE OF CURING : Sub in water	

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	23-Jan-14	28	150	8145	2.43	913.0	413.6	421.4
2			150	8004	2.37	905.0	410.0	
3			150	8075	2.38	973.0	440.8	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						168.6	النسبة
Satisfactory			Unsatisfactory				
							
							
							
<p>Remarks:</p> <p>Results assessment should be carried out in accordance with BS 1881 Part 116 at the age specified condition for these specimens are in the standard condition for laboratory control specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.8kN/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER					
M. Mohamed	Abdul Adel						
M. Mohamed	Abdul Adel						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 (BS 1881-1985, 4720:1991)

PROJECT	مشاريع القطر السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	110 300 - 400
STATION		at 100+100.0 - 100+150.0 (L-S) R.1	
DATE OF CASTING	26-Dec-2023	planned strength	150 Kg/cm ²
PLURED QUANTITY		no. of TEST MARK	8
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm.)	Weight (kg)	Density (Kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average Kg/cm ²
1	25-Jan-24	28	150	7990	2.37	890.0	463.2	466.6
2			150	8114	2.40	900.0	471.3	
3			150	8003	2.37	900.0	435.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		166.6	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E		 F	 G
 H		 I	 J

Remarks:

Specific measurement is recorded and its accuracy is 0.01mm

BS 1881 Part 116 is the standard condition for test specimens are

in the standard condition for minimum curing periods

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.14MPa/s to 0.34MPa/s or (0.4MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q/C MANAGER
M. Mohamed	Abdul Aziz	AMR ATIF
M. Mohamed	Abdul Aziz	



34














35



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991













PROJECT	مشاريع مطار الشيخ		STATION	
Customer	EGY CONTRAC		Concrete Control Type	J10 KC - OPC
STATION			at 500+182.500+120 L.D / at 500+197.500+180 L.D	
DATE OF CASTING	27-Dec-2023		REQUIRED STRENGTH	250 kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	3-Jan-24	7	150	8233	2.44	643.0	291.3	298.4
2			150	7896	2.34	652.0	295.4	
3			150	8131	2.41	681.0	308.3	

MODES OF FAILURE (AS PER BS 1881 - Part 116: 1983)						119.4	Speed
Satisfactory			Unsatisfactory				
							
							
							
Remarks: Results measurement is carried out in accordance with BS 1881: Part 116 in the six required positions for each specimen and in the advanced position for laboratory used specimens.							
Note: T indicates tensile cracking							
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.05kN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER		Q.C. MANAGER				
M. Mohamed	Ahmed Adel						
M. Mohamed	Ahmed Adel						

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 (BS 1881:1983, 6720:1991)

PROJECT						مشروع المطار السريع						STATION					
Customer						EGY CONTRAC						Concrete Content/Type		310	AG - OPC		
STATION						1						H 508+134-508+193 L-R / H 508+175-508+242 L-R					
DATE OF CASTING						17-Dec-2023						SPECIFIED STRENGTH		250	Kg/cm ²		
POURED QUANTITY						m ³						NO. OF CYLINDERS		6			
CONCRETE SLUMP						cm											
TARGET SLUMP						cm						TYPE OF CURING		Sub in water			
S. Of test		Date of Test		Age of Test (Days)		Average Dimension (mm)		Weight (g)		Density (kg/m ³)		Failure Load (kN)		Comp. Strength Kg/cm ²		Average kg/cm ²	
1		3-Jan-24		7		150		8134		2.44		668.6		303.1		298.7	
2						150		8048		2.38		657.6		297.6			
3						150		7963		2.34		632.8		286.3			


MODELS OF FAILURE AS PER BS 1881 - Part 116:1983						118.3	القيمة
Satisfactory			Unsatisfactory				
							
A	B	C					
							
			J	K	L		

Remarks:

Results, measurement is carried out in accordance with BS 1881:1983 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 7.5kN/s or (4.5kN/s to 7.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND ASTM:1989, 6720-1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	110 NG - OPC
STATION		at 500+183-500+120 L.R. / at 500+197-500+180 L.R.	
DATE OF CASTING	21-Dec-2023	Planned concrete	150 kg/m ³
POURED QUANTITY		m ³	NO OF CUBES MADE
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	Test in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	24-Jan-24	28	150	8047	1.39	722.0	227.3	285.7
2			150	8088	1.40	851.0	430.8	
3			150	8053	1.38	881.0	399.1	

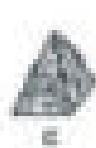
MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

154.3

النسبة

Satisfactory

Unsatisfactory



Remarks:

Results assessment is passed with accordance with BS

1881 Part 116 in the required condition for most specimens are

in the required condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.50N/S to 5.00N/S or (0.50N/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Abdul Adel	
M. Mohamed	Abdul Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6718:1999

PROJECT		مشاريع الطرق الجديدة		STATION	
Customer		EGY CONTRAC		Cement Concrete Type 110 40/- OPC	
STATION		at 500+126.500-126.500 L-B / at 500+275.000-242 L-B			
DATE OF CASTING		17-Dec-2023		EXC. WORK DESCRIPTION : 250 kg/cm ²	
POURED QUANTITY		m ³		NO. OF CUBES MADE : 6	
CONCRETE SLUMP		CM			
TARGET SLUMP		CM		TYPE OF CURING : Sub to water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	14-Jan-24	28	150	8091	2.39	479.8	319.8	374.3
2			150	8040	2.38	876.8	485.9	
3			150	8055	2.39	914.8	474.9	














MODES OF FAILURE AS PER BS 1881 - Part 116:1983						149.8	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>							
<p>Remarks:</p> <p>Results measurement is carried out in accordance with BS 1881 Part 116 in the air dried condition for most specimens and in the saturated condition for laboratory cured specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4 MPa/s to 10 MPa/s or (20-60 N/s)</p>							

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Abdul Aziz	AMR ATY
M. Mohamed	Abdul Aziz	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6720:1991

PROJECT	مشاريع المطار الجديد		STATION					
Customer	EGY CONTRAC		Concrete Content Type	310 SG - OPT				
STATION	at 508+272.508+279 L-B							
DATE OF CASTING	18-Dec-2023		Specified Strength	250 Kg/cm²				
POURED QUANTITY		m³	vol. of cubes made	8				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength Kg/cm²	Average kg/cm²
1	4-Jan-24	7	150	8088	2.39	694.8	314.4	311.1
2			150	7991	2.37	657.8	297.4	
3			150	8007	2.37	709.8	321.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983						124.4	النسبة
Satisfactory			Unsatisfactory				
  			  				
  							
  							
<p>Remarks:</p> <p>Results were obtained in accordance with BS 1881 Part 116 in the air cured condition for most specimens and in the saturated condition for reference control specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (5.0kN/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER					
M. Mohamed	Abdullah						
M. Mohamed	Abdullah						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT	طريق المطار السريع	STATION	
Customer	EGY CONTRAC	Cement	Cement Type 210 KCI - OPC
STATION			at 500+250 500+270 L-B
DATE OF CASTING	28-Dec-2013	EXPECTED STRENGTH	250 kg/cm ²
POURED QUANTITY		m³	
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	
		TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Jan-24	7	150	7940	2.38	697.0	315.7	304.9
2			150	7981	2.36	673.0	304.9	
3			150	7945	2.38	689.0	312.1	

<p align="center">MODELS OF FAILURE AFTER BS 1881 - Part 116:1983</p>						<p align="center">124.4</p>	<p align="center">النسبة</p>
<p align="center">Satisfactory</p>			<p align="center">Unsatisfactory</p>				
<p>Remarks:</p> <p>Results assessment is carried out in accordance with BS 1881 Part 116 in the six specified conditions for most specimens and in the additional condition for laboratory used concrete</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.05N/s to 0.15N/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER		QC MANAGER				



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6728:1991

PROJECT	مشاريع الطرق السريع	STATION	
Contractor	EGY CONTRAC	Concrete Content/Type	310 NG - OPC
STATION		at 500+200-500+100 L-D	
DATE OF CASTING	18-Dec-2013	REQUIRED STRENGTH	250 kg/cm ²
PLUNED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of no	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Jan-24	7	150	8023	2.38	662.0	299.9	298.8
2			150	8001	2.37	667.0	302.3	
3			150	7995	2.37	630.0	285.4	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

118.3

النسبة

Exfoliation

Unsatfactory



Remarks:

Results assessment is carried out in accordance with BS

1881 Part 116 in the as received condition for most specimens are in the as received condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.25N/S to 0.5N/S or (0.25N/S)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mr. Mohamed	Abdul Adel	
Mr. Mohamed	Abdul Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1999

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	310 KG - OPC
STATION	at KM=109+500+170 L-R		
DATE OF CASTING	28-Dec-2023	Specified Strength	250 N/mm ²
POURED QUANTITY	m ³	No. of Cured Weigh	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Test in water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average N/mm ²
1	28-Jan-24	28	150	9250	2.43	1082.0	433.9	433.8
1			150	9085	2.40	989.0	402.7	
2			150	9114	2.40	964.0	399.9	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983	168.8	النسبة
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Satisfactory</p> </div> <div style="width: 45%;"> <p>Unsatisfactory</p> </div> </div>		
<p>Remarks:</p> <p>Results measurement is carried out in accordance with BS 1881 Part 116 in the six required positions for most specimens and in the required positions for laboratory control specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5kN/s to 0.6kN/s or 0.5kN/s</p>		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Abdel	AMR AYOUB
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT	مطروح القطار السريع		STATION		
Customer	EGY CONTRAC		Cement Content/Type	330	85% - 100%
STATION	1		at 100+300+500+000 L/D		
DATE OF CASTING	28-Dec-2023		Specimen size with	150	kg/cm ²
Poured quantity		m ³	No. of cubes made	6	
Cure with slump		Cm			
Target slump		Cm	type of curing	Sub to water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	28-Jan-24	28	150	8140	1.41	868.8	578.2	605.8
2			150	8125	1.41	895.8	593.5	
3			150	8097	1.40	906.8	610.4	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		160.6	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results measurement is carried out in accordance with BS 1881:1983 and BS 6897:1985 and BS 6726:1991.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 10 kN/s or 0.1 to 0.2 MPa/s

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mr. Mohamed	Abdul Aziz	AMR ATEF
Mr. Mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6710:1991

PROJECT	ماتروج القطار السريع		STATION	
Customer	EGY CONTRAC		Cement Concrete Type	210 SG - OPC
STATION	at 500+000, 500+500 L/D			
DATE OF CASTING	30-Dec-2023		PLACED STRENGTH	250 N/mm ²
POURED QUANTITY		m ³	NL OF CUBES MADE	6
CONCRETE SLAB		Cm		
TARGET SLAB		Cm	TYPE OF CURING	Sub in water

S. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	4-Jan-24	7	150	8004	2.37	471.8	304.4	284.0
2			150	7988	2.37	471.8	285.8	
3			150	7990	2.37	478.0	281.8	











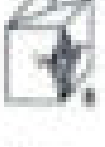

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		113.6	النسبة
Satisfactory	Unsatisfactory		
Remarks : Results assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/s to 6.5kN/s or (5.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abdul Aziz		
M. Mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6726:1991

PROJECT	مشروع مطار السبع	STATION	
Customer	EGY CONTRAC	Concrete Category	310 RC - OPC
STATION		at 500+371-500+382 L/A	
DATE OF CASTING	20-Dec-2023	Planned Strength	280 kg/cm ²
Planned Quantity	m ³	No. of Cubes Made	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	6-Jan-24	7	150	8023	2.38	488.0	310.3	286.7
2			150	8020	2.38	482.0	272.7	
3			150	8016	2.38	471.0	273.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983						114.7	النسبة
Brittle failure						Uncharacteristic	
							
Plastic failure							
							
							
							
Plastic failure							
							
							
							

Remarks:
 Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for specimens tested in water.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.3kN/s to 8.0kN/s or (0.8kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed A. El	
M. Mohamed	Ahmed A. El	

















DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND BS 1881:1988, 4720:1991

PROJECT	طريق المطار السريع	STATION	
Customer	EDY CONTRAC	Cement Content Type	100 KG - OPC
STATION		at 500+250, 500+300 L&R	
DATE OF CASTING	10-Dec-2023	POURED VOLUME	250 kg/cm ³
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (kg)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	17-Jan-24	28	150	8120	2.41	1011.0	498.0	481.0
2			150	8140	2.43	1020.0	493.1	
3			150	8083	2.39	1021.0	493.0	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						184.4	النسبة
Satisfactory			Unsatisfactory				
							
							
							

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 114 in the recommended conditions for moist specimens only or the standard conditions for laboratory cured specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5 MPa/s to 5.0 MPa/s or (0.05 N/mm²/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Abdul Aziz	AMR ATEN
M. Mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6720:1991

PROJECT		مشروع القطار السريع		STATION	
Customer		EGY CONTRAC		Concrete Content Type : 310 kg - OPC	
STATION		at 300+371-388+382 L-R			
DATE OF CASTING		26-Dec-2023		Specimen Dimensions : 150 mm x 150 mm x 150 mm	
POURED QUANTITY		m ³		No. of cubes made : 8	
CONCRETE SLUMP		mm		Type of curing : Sub in water	
TARGET SLUMP		mm			

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	27-Jan-24	28	150	8098	2.40	925.0	414.8	444.4
2			150	8047	2.38	980.0	418.5	
3			150	8073	2.39	1033.0	447.9	

MODE OF FAILURE AS PER BS 1881 - Part 116 - 1983		177.8	النسبة
Remarks: Results are given in accordance with BS 1881-116:1983 BS 1881-116:1983 is the standard method for testing specimens in the compressive condition for laboratory tested specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 0.5MPa/s to 1.0 MPa/s or (5 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Abdul A. El	AMB. ATEF	
M. Mohamed	Abdul A. El		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	J18 KG - OPC
STATION	1	at 500+302-500+275 L.D / at 500+302-500+295 L.D	
DATE OF CASTING	10-Dec-2023	SPCURED STRUCTURE	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water



n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	7-Jan-24	7	150	8683	2.37	711.0	312.1	318.6
2			150	7668	2.36	690.0	312.8	
3			150	7891	2.34	656.0	297.2	

MODES OF FAILURE AS PER BS 1881, Part 116, 1983		124.2	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Density measurement is carried out in accordance with BS 1881 Part 116 at the as received condition for most specimens and at the saturated condition for laboratory cured specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5N/5 to 5.0 N/5 or 6.5N/5</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Abdel		
M. Mohamed	Ahmed Abdel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Concrete Type	310 AG - OPC
STATION	at 500+625.500+374 L-S		
DATE OF CASTING	21-Dec-2023	TESTED STRENGTH	190 N/mm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	7-Jan-24	7	150	7819	2.35	648.8	293.4	307.3
2			150	7864	2.36	679.8	305.8	
3			150	7997	2.37	713.8	323.8	

MODELS OF FAILURE AS PER BS 1881 - Part 116:1983		122.9	النسبة
Satisfactory		Unsatisfactory	
Remarks:			
Results determined in accordance with BS 1881 Part 116 at the test room conditions for moist specimens and in the saturated conditions for laboratory moist specimens			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.8kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER 	
M. Mohamed	Amr Adel		
M. Mohamed	Amr Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6718:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	ECV CONTRACT	Concrete Content/Type	110 MC - OPC
STATION	at 500+000-500+175 L-201 at 500+000-500+000 L-2		
DATE OF CASTING	31-Dec-2023	PLACEMENT METHOD	250 kg/m ³
PLANNED QUANTITY		NO. OF TESTS MADE	8
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub to water

S. OF REP	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	28-Jan-24	28	150	8077	2.35	868.0	289.3	274.6
2			150	8150	2.40	855.0	287.3	
3			150	8020	2.38	866.0	287.0	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		140.0	القيمة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Specimen measurement is performed in accordance with BS 1881 Part 114. It has no measured deviation for these specimens and is the standard condition for laboratory work specimens.

Note: L.T. indicates internal cracking

Remarks: Specified Loading Rate Range = 4 (kN/s to 9 (kN/s) or (0.2 kN/s to 0.4 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
Mr. Mohamed	Abdul Adel	AMR ATER
Mr. Mohamed	Abdul Adel	

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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BSRAMD 6897:1989, 6726:1991)

PROJECT	مشروع القطر السريع	STATION	
Customer	EDV CONTRACT	Concrete Cement Type	315 RC-OPS
STATION		in 500+174.8 - 500+403.2 L-S BI	
DATE OF CASTING	21-Dec-2023	POURED STRENGTH	120 N/mm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLAB	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. Of Test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	28-Jan-24	28	100	8075	2.39	756.0	342.5	354.7
2			100	7987	2.37	828.0	371.3	
3			100	7994	2.37	773.0	348.2	

MODES OF FAILURE AS PER BS 1881 - Part 116:1981		141.0	النسبة
Satisfactory		Unsatisfactory	
Remarks: Specimens investigated (3 cubes) and 3 specimens with BS 1881 Part 116 in the air cured condition for most specimens are in the saturated condition for minimum 28 days.			
Note: T indicates brittle cracking			
Remarks: Specified Loading Rate Range = 4.0NPS to 9.0 NPS or 15.0NPS			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
m. mahmoud	Abdul Aziz	AMR ATIF	
m. mahmoud	Abdul Aziz		






DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1980, 6720:1991

PROJECT	ملف مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	J10 KU - OPC
STATION	من 500-412-500-171 1-0		
DATE OF CASTING	1-Jan-2024	EXPECTED STRENGTH	250 kg/cm ²
Poured Quantity	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
Target Slump	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	8-Jan-24	7	150	6070	2.39	731.6	311.1	313.9
2			150	7994	2.37	659.8	298.5	
3			150	8024	2.38	689.8	312.1	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		125.6	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Density measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory used specimens</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or 0.5kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mohamed	Ahmed A21	AMR-AYR	
M. Mohamed	Ahmed A21		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6726:1991

PROJECT		مشاريع الطرق السريع		STATION				
Customer		ECY CONTRAC		Cement Compound Type 315 NG - OPC				
STATION								
DATE OF CASTING		1-Jan-2024		EXPECTED STRENGTH : 250 kg/cm ²				
PLUMED QUANTITY		m ³		NO. OF CUBES MADE : 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water				
S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	8-Jan-24	7	150	7640	2.35	428.0	284.5	305.0
2			150	7680	2.34	480.0	308.0	
3			150	8932	2.38	715.0	323.9	


MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		122.2	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens are in the as received condition the laboratory would determine			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	O.C. MANAGER	
m. mohamed	Abdul Aziz		
m. mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1985, 6728:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EDY CONTRAC	Concrete Class/Type	C18 XL - OPC
STATION			at 800+449 800+450 L.S
DATE OF CASTING	1-Jan-2024	SPREADER/STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	18-Jan-24	18	150	8000	2.40	971.0	429.0	487.1
2			150	8120	2.41	985.0	426.1	
3			150	8032	2.38	1112.0	503.7	

<p align="center">MODES OF FAILURE AS PER BS 1881, Part 116, 1983</p>						<p align="center">182.9</p>	<p align="center">النسبة</p>
<p>Satisfactory</p>						<p>Unsatisfactory</p>	
<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>	<p>E</p>	<p>F</p>	<p>G</p>	<p>H</p>
<p>Remarks:</p> <p>Results assessment is carried out in accordance with BS 1881 Part 116 as the test specimens satisfied the stated requirements and no further adjustment is required for laboratory conditions.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (0.5kN/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER		QC MANAGER				
M. Mohamed	Ahmed Adel						
M. Mohamed	Ahmed Adel						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 118 (ISLAND 6893/1989, 6726/1991)

PROJECT	مشروع القطار السريع		STATION	
Customer	EGY CONTRACT		Consent	Consent Type
STATION	1		318	820 - 118C
DATE OF CASTING	1-Jan-2024		at 308+171.3 - 308+413.0 1-D 0.1	
POURED QUANTITY	m³		PRESTRESS STRENGTH	150 N/mm²
CUBE WITH SLUMP	Cm		NO. OF CUBES MADE	6
TARGET SLUMP	Cm		TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength N/mm²	Average kg/cm²
1	28-Jan-24	28	150	8048	2.38	1812.0	456.4	454.2
2			150	8098	2.40	1801.0	453.3	
3			150	8076	2.39	1805.0	456.7	

MODES OF FAILURE AS PER BS 1881 - Part 118 (1991)		181.7	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L
Remarks: Specified Loading Rate Range = 0.5 kN/s to 0.8 kN/s or (0.5 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abdul Aziz	AMR ALI	
M. Mohamed	Abdul Aziz		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1985, 6726:1991

PROJECT	مطروح القطر السريع	STATION
Contractor	EGY CONTRAC	Concrete Content Type 100 KG - OPL
STATION	at 508+400-508+425 L-D / at 508+407-508+432 L-B	
DATE OF CASTING	3-Jan-2024	DESIGNED STRENGTH : 250 kg/cm ²
PLURED QUANTITY	m ³	NOL OF CUBES MADE : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	9-Jan-24	7	150	8058	2.29	628.8	284.5	271.6
2			150	7986	2.27	568.8	253.7	
3			150	8017	2.28	611.0	276.8	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

108.7

النسبة

Satisfactory

Unsatisfactory



Remarks:

Results measurement is as per test set in accordance with BS

1881 Part 116 in the as mentioned condition for most specimens are in the intended condition for reference used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 1.0kN/s to 3.0 kN/s or (A.0kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Abdul Aziz	AMR ATOP
M. Mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND BS 1881-1999, 4720:1991

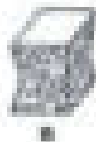
PROJECT	مشروع القطر السريع		STATION					
Customer	EGY CONTRAC		Concrete Category Type 210 KG - OPC					
STATION	at 500+400-500+425 L-D / at 500+407-500+452 L-S							
DATE OF CASTING	2-Jan-2024							
PLURER QUANTITY		specified strength	150 kg/cm ²					
CONCRETE SLUMP	m ³	NO. OF CUBES MADE	6					
TARGET SLUMP	cm	TYPE OF CURING	Sub in water					
Sl. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	20-Jan-24	28	150	8070	2.20	758.0	343.4	342.0
2			150	8092	2.40	747.0	328.4	
3			150	8100	2.40	740.0	344.3	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983

136.8 الكيلو

Satisfactory

Unsatisfactory



Remarks :

Results were measured in accordance with BS 1881

1881 Part 116 in the as received condition for most specimens and in the received condition for specimens used for curing

Note : T indicates tensile cracking

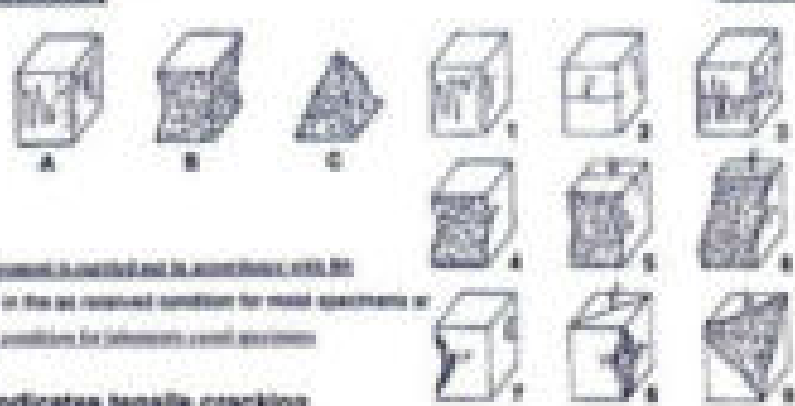

Remarks : Specified Loading Rate Range = 0.05N/s to 0.02N/s or 0.05N/s

COMPANY ENGINEER	CONSULTANT ENGINEER	TEST MANAGER
m-mahmoud	Amr Abdel	m-mahmoud
m-mahmoud	Amr Abdel	m-mahmoud

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4893:1989, 4720:1991

PROJECT	مشروع مطار السويح	STATION	
Customer	EGY CONTRAC	Concrete Type	310 kg - 119C
STATION	at 500+190.3-500+141.3 (L-S-02) / at 500+317.3-500+366.3 (L-S-02)		
DATE OF CASTING	4-Jan-2024	Required Strength	250 kg/cm ²
POURED QUANTITY	m ³	No. of cubes made	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Tested in water	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	11-Jan-24	7	150	8033	2.38	474.0	316.2	313.8
2			150	7998	2.37	547.0	338.4	
3			150	8006	2.37	496.0	334.8	

MODES OF FAILURE AS PER BS 1881, Part 116, 119		125.2	القيمة
Satisfactory	Unsatisfactory		
			
Remarks :			
Results determined in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for submerged and specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4 N/MS to 1.0 kN/S or 0.04N/S			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Ahmed Abdel	AMR ATIF	
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (BS EN ISO 6873:1989, 6720:1991)

PROJECT	مشاريع الطرق السريع	STATION
Customer	EUT CONTRAC	Concrete Content Type : 210 kg - 0.00%
STATION	at 500+198.5-500+141.8 (L-A-B) : at 500+127.5-500+108.8 (L-A-B)	
DATE OF CASTING	4-Jan-2024	REQUIRED STRENGTH : 210 kg/cm ²
PURCH QUANTITY		NO. OF CUBES MADE : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Submersion

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	11-Jan-24	7	150	8431	2.38	936.8	248.8	296.7
2			150	7999	2.27	923.6	217.8	
3			150	8096	2.27	967.8	242.2	

MODES OF FAILURE AS PER BS 1881 - Part 116, 119

Satisfactory						Unsatisfactory	

Remarks:
 Results assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for laboratory-cured specimens.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.2kN/s to 6.0kN/s or (0.6kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Abdel	AMR ATEF
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116: EN 12390-1:2009, 6726:1991

PROJECT	مشاريع الطرق السريع		STATION	
Customer	EGY CONTRAC		Concrete Class/Type : 250 NO - OPC	
STATION	1		at 500+195.5-500+141.5 (L-9-B2) / at 500+177.5-500+196.5 (L-9-B2)	
DATE OF CASTING	4-Jan-2024		PC/HR/STRENGTH : 250 N/mm ²	
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6	
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	TYPE OF CURING : Sub to water	

S. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average (N/mm ²)
1	1-Feb-24	18	150	8145	2.41	818.0	379.6	380.3
2			150	8148	2.41	885.0	408.9	
3			150	8149	2.41	882.0	399.6	

MODUS OF FAILURE AS PER BS 1881 - Part 116: EN 12390-1:2009		155.1	القيمة
Satisfactory	Unsatisfactory		
Remarks :			
Density assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for following used specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4 N/mm ² to 0.05 N/mm ² or 0.05 N/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mahmoud	Ahmed Abdel	AMR ATIF	
M. Mahmoud	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (EN 12390-1:2009, ASTM C69)

PROJECT	مشاريع القطر السريع	STATION	
Customer	EGY CENTRAE	Concrete Content Type	210 kg - 14%
STATION	من 1000 (100.0-100.0) إلى 1000 (100.0-100.0) / من 1000 (100.0-100.0) إلى 1000 (100.0-100.0)		
DATE OF CASTING	4-Jun-2024	nominal concrete strength	210 kg/cm ²
POURED QUANTITY	m ³	no. of cubes made	8
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	type of curing	Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	1-Feb-24	28	150	8145	2.41	718.8	334.8	336.8
2			150	8146	2.41	718.8	343.4	
3			150	8147	2.41	693.8	409.8	

NUMBER OF FAILURE AFTER BS 1881 - Part 116 (EN 12390-1:2009)		150.4	قيمة
Satisfactory	Unsatisfactory		
Remarks: Results of specimens in section and in section (BS 1881) and Part 116 in the as received condition for most specimens or in the saturated condition for subsequent test specimens.			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.76 N/S to 9.0 N/S or 0.4 N/50 to 0.8 N/50			

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Abdel	AMR ATIF
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 4097:1999, 4720:1991

PROJECT	مشروع مطار السويح	STATION						
Customer	EGY CONTRAC	Concrete Content/Type	110	NG - 195				
STATION	at 500+281.5-500+344.5 L-R, Span 3.							
DATE OF CASTING	6-Jan-2024	Specimen Dimensions	150	mm ³				
Poured Quantity	m ³	No. of Cured Specimens	6					
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water					
S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	13-Jan-24	7	150	8081	2.27	656.0	297.2	283.7
2			150	7983	2.27	625.0	283.1	
3			150	8027	2.28	598.0	278.9	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		113.5	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Results measurement & recorded as in accordance with BS 1881 Part 116 in the as specified condition for most specimens are in the saturated condition for laboratory control specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range: 4.5kN/s to 19.0kN/s or 25.0kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	O.P. MENALLAH	
M. Mohamed	Abdul Aziz		
M. Mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 (BS 1881-116:1983)

PROJECT	مشاريع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 kg - OPC
STATION	4500-128.5 500-125 + 1-5 kg 500-127.5 500-128.5 1-5	Specimen Size	150 mm
DATE OF CASTING	4-Jan-2024	Specimen Strength	150 kg/cm ²
POURED QUANTITY	m ³	NO. OF TEST MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	12-Jan-24	7	150	8038	2.38	648.0	293.5	288.4
2			150	8040	2.38	650.0	294.5	
3			150	8012	2.37	612.0	277.2	

MODE OF FAILURE AS PER BS 1881 - Part 116:1983

Satisfactory

Unsatisfactory

النسبة: 115.4

Remarks:

Results assessment is carried out in accordance with BS 1881 Part 116 in the specified conditions for test specimens and in the specified conditions for laboratory test specimens.

Note: T indicates tensile cracking.

Remarks: Specified Loading Rate Range = 4.000% to 5.000% or (0.000% to 0.000%)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
<i>m. mohamed</i>	<i>Abdul Ali</i>	
<i>m. mohamed</i>	<i>Abdul Ali</i>	







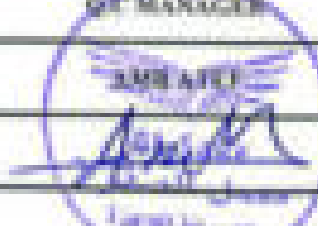




DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116: ENLAND 6097:1983, 6710:1991

PROJECT	مشروع مطار السبع	STATION	
Customer	EGY CONTRAC	Concrete Classes Type	30B RC - OPC
STATION		4 30B-301.3-30B-144.5 I-D	Fig-1
DATE OF CASTING	6-Jan-2014	PRE-CASTED STRENGTH	250 kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP		CU	
TARGET SLUMP		CU	Sub to water

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	3-Feb-14	28	150	7966	2.37	830.0	376.0	371.3
2			150	8050	2.39	854.0	386.9	
3			150	7994	2.37	775.0	341.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1992		148.5	النسبة
<p>- Satisfactory</p> <div style="display: flex; justify-content: space-around;">    </div>		<p>Unsatisfactory</p> <div style="display: flex; justify-content: space-around;">    </div>	
<p>Remarks:</p> <p>Results presented & certified as accordance with BS 1881 Part 116 in the as received condition for test specimens are as the presented condition for laboratory used operation</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 0.34N/Sec to 0.8 N/Sec or (0.6N/Sec)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER	
Mr. Mahmoud	Aboud Adel		
Mr. Mahmoud	Aboud Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1999

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRACT	Concrete Content/Type	110 KG - OPC
STATION	K.S. 95A-54+000 to 100+000, 54+000 to 55+000, 55+000 to 56+000, 56+000 to 57+000, 57+000 to 58+000		
DATE OF CASTING	6-Jan-2024	SPECIFIED COMBUSTION	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	8
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. OF cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Feb-24	28	150	7498	2.34	817.8	578.1	569.2
2			150	7996	2.37	858.8	589.7	
3			150	7498	2.34	776.8	548.8	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		147.7	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Specimen was tested in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory used specimens.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (A.8kN/s)



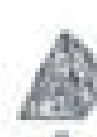







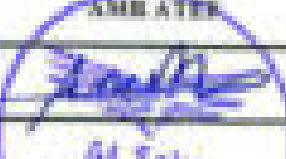
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Abdul Adel	AMR ATEF
M. Mohamed	Abdul Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1999, 6726:1991

PROJECT	مشروع القطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	150 RC - OPC
STATION	at 500+400-500+450 L-D		
DATE OF CASTING	14-Jan-2024	Required Strength	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-Jan-24	T	150	7947	2.35	733.0	302.8	310.5
2			150	8001	2.37	646.0	292.4	
3			150	7855	2.34	677.0	306.7	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		124.2	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
		 E	 F
		 G	 H
		 I	 J
Remarks :			
Results of specimens is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory used specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/s to 6.0kN/s or (5.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abdul Adel	SME ATEN	
M. Mohamed	Abdul Adel		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116 (UK) AND 6897:1985, 6718:1990

PROJECT	مشروع المطار السريع	STATION	
Customer	EUY CONTRAC	Concrete Content Type	110 kg - 18%
STATION		at 800+400.500+450 L.R	
DATE OF CASTING	14-Jan-2024	POURED VOLUME (m ³)	250 kg/m ³
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	11-Feb-24	28	150	8217	2.43	818.0	279.4	290.2
2			150	8174	2.42	885.0	406.9	
3			150	8661	2.39	882.0	369.5	

MODELS OF FAILURE AS PER BS 1881 - Part 116 - 1982

150.1

Good

Satisfactory

Unsatisfactory

Remarks:

Results measurement is correct and is acceptable with BS

Note: Part 116 is the recommended condition for most specimens are in the required condition for laboratory used specimens.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 60 kN/s or (0.04 N/s)



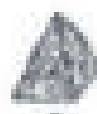










COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Abdul Aziz	AMRATY
M. Mohamed	Abdul Aziz	QC MANAGER



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Concrete Class Type	310 AC - OPC
STATION :	+ 508-508+201.3 L-S-B ₂		
DATE OF CASTING	15-Jan-2024	PLACEMENT STRENGTH	250 kg/cm ²
PIURED QUANTITY	m ³	NO. OF TESTS MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	22-Jan-24	7	150	8860	2.39	875.0	580.4	596.7
2			150	8335	2.47	723.0	477.5	
3			150	8141	2.40	667.0	442.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983						118.7	النسبة
Satisfactory			Unsatisfactory				
							
							
							
Remarks : Density measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory used specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.0kN/s to 5.0 kN/s or (0.05kN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	JOB MANAGER					
for Mohamed	Abdul Adel						
for Mohamed	Abdul Adel						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 4718:1991

PROJECT	مشاريع الطرق الجديدة	STATION	
Customer	EGY CONTRAC	Concrete Content Type	140 840 - OPC
STATION		at 100-200 1.000-201.3 1-5-8	
DATE OF CASTING	15-JAN-2024	Spec. comp. strength (MPa)	25.0 kg/cm ²
POURED QUANTITY		kg. of concrete used	0
CONCRETE SLUMP			
CURRY SLUMP			Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Diameter (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	12-Feb-24	28	150	8004	1.37	814.0	269.6	274.0
2			150	8034	1.38	863.0	289.6	
3			150	7999	1.37	798.0	264.3	













MODE OF FAILURE AS PER BS 1881 - Part 116:1983		140 B	القوية
Satisfactory		Unsatisfactory	
Remarks:			
Results are consistent with the results of the test.			
Note: Part 116 of BS 1881 provides guidance for test specimens and the test conditions for determining compressive strength.			
Note: T indicates brittle cracking.			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.8kN/s²)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abdul Ahal		
M. Mohamed	Abdul Ahal		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4497:1989, 4720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete	Concrete Type : 3/18 f_{ck} : 40MPa
STATION	1		at 500+000.0 - 500+100.0 L-D R 1 / at 500+200.0 - 500+250.0 L-D R 1
DATE OF CASTING	18-Jan-2024	Specimen Strength	230 kg/cm^2
PLANNED QUANTITY		NO. OF CUBES MADE	6
CONCRETE CLASS	C40		
TARGET SLUMP	C40	TYPE OF CURING	Sub in water

S. Of cube	Date of Test	Age of Test (Days)	Average Specimen (mm)	Weight (g)	Density (kg/m^3)	Failure Load (kN)	Comp. Strength kg/cm^2	Average kg/cm^2
1	23-Jan-24	7	150	8010	2.39	664.8	265.8	293.5
2			150	7910	2.35	644.8	261.7	
3			150	7960	2.37	636.8	258.1	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		117.4	القيمة
<div style="display: flex; justify-content: space-around;"> Satisfactory Unsatisfactory </div>			
     			
  			
  			
Remarks : Details as mentioned in section 10.2.2 of BS 1881:1983 BS 1881: Part 116 is the recommended condition for most specimens and is the preferred condition for laboratory tested specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.0kN/s to 9.0kN/s or (0.6kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
M. Mohamed	Abd Alhak	AMR ATIF	
M. Mohamed	Abd Alhak		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116: BREALMS 4097:1986, 4726:1991

PROJECT	مشاريع القطار السريع	STATION	
Contractor	SEVY CONTRACT	Concrete Content Type	100 847 - 100%
STATION	1	Concrete Content Type	100 847 - 100%
DATE OF CASTING	16-Jun-2014	Specimen Dimensions	150 847mm ³
POURED QUANTITY		no. of cubes made	4
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURE	Sub to water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	12-Feb-14	28	150	8104	1.43	879.0	571.0	585.1
2			150	8174	1.42	863.0	559.0	
3			150	8112	1.48	849.0	544.0	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1981		154.0	النسبة
Satisfactory	Unsatisfactory		
Remarks : Quality assessment is performed in accordance with BS 1881 Part 116 as the test specimens for most specimens are in the unsatisfactory condition for laboratory tested specimens. Note : T indicates tensile cracking. Remarks : Specified Loading Rate Range - 4.5kN/s to 6.0kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
m. mohamed	Abdul Adil	AMR ATIF	
m. mohamed	Abdul Adil		











DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 114:1983 (BS 1881-114:1983, 4726:1991)

PROJECT	مشاريع الطرق السريع	STATION	
Customer	ECT CONTRAC	Cement Content/Type	308 42.5 - 0P1
STATION	1	Concrete Strength	100 MPa
DATE OF CASTING	16-Jan-2024	Tested Strength	100 MPa
PLURED QUANTITY		Tested Strength	100 MPa
CONCRETE SLUMP	100	Tested Strength	100 MPa
TARGET SLUMP	100	Tested Strength	100 MPa

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (MPa)	Average (MPa)
1	27-Jan-24	7	150	8810	1.37	484.0	110.8	109.6
2			150	8855	1.38	475.0	107.6	
3			150	8840	1.38	485.0	110.3	

MODES OF FAILURE AS PER BS 1881 - Part 114:1983 123.8

Satisfactory **Unsatisfactory**

Remarks:

Results are satisfactory as per BS 1881 - Part 114:1983

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.2MPa/s to 0.6MPa/s or (0.002MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Abdul Aziz	AMR ATRE
M. Mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (PRELIMINARY 4097:1989, 4726:1991)

PROJECT	مشروع المطار الجديد	STATION	
CLIENT	EGY CONTRACT	Contract Contract Type	100 800 1000
STATION	1	4726:1991 4726:1991 4726:1991	4726:1991 4726:1991 4726:1991
DATE OF CASTING	28-Jan-2024	TESTING METHOD	100 800 1000
PLACED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP	100		
TARGET SLUMP	100	TYPE OF CURING	Sub to water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (N/mm²)	Average (N/mm²)
1	17-Feb-24	28	100	7728	2.29	777.0	328.3	309.6
2			100	7809	2.31	848.0	363.2	
3			100	7846	2.31	875.0	376.4	

MODES OF FAILURE AS PER BS 1881 - Part 116:1991		147.9	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Specimens were tested in accordance with BS 1881 Part 116 in the air-cured condition for test specimens and in the saturated condition for reference cores and cylinders.</p> <p>Note: T indicates tensile cracking.</p> <p>Remarks: Specified Loading Rate Range = 4 MPa/s to 0.6 MPa/s or 16 MPa/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Adel	AMR ATY	
M. Mohamed	Ahmed Adel		















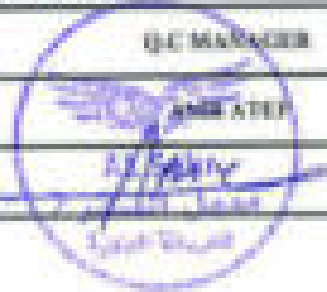


DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 114:1983 AND ASTM:1989, 6726:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRACT	Concrete Content Type	100 kg - OPC
STATION	K 100-100.0 - 100-100.0 L-R R1		
BATCH / CASTING	21-Jan-2014	Specimen Dimensions	150 mm ³
NUMBER QUANTITY		No. of cubes made	6
CONCRETE SLAB	cm		
TARGET SLAB	cm	Test in	Sub to water

S. No.	Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1		28-Jan-14	7	150	7903	2.34	878.8	207.1	191.8
2				150	7904	2.36	883.8	201.7	
3				150	7905	2.36	851.8	177.2	

<p align="center">MODES OF FAILURE AS PER BS 1881: Part 114: 1983</p> <p align="center">Satisfactory Unsatisfactory</p> <div style="display: flex; justify-content: space-around;">       </div> <div style="display: flex; justify-content: space-around;">    </div> <div style="display: flex; justify-content: space-around;">    </div>		<p>191.8</p> <p>المتوسط</p>
<p>Remarks:</p> <p>Results were found to be satisfactory as per BS 1881: Part 114: 1983 and as required for the project.</p> <p>Note: T indicates tensile cracking</p>		
<p>Remarks: Specimen Loading Rate Range = 4 MPa/s to 6 MPa/s or (0.2 MPa/s)</p>		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
Mr. Mohamed	Abdul Aziz	Abdul Aziz
Mr. Mohamed	Abdul Aziz	Abdul Aziz





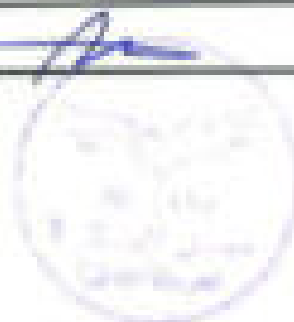
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (BSLAMD 4497:1998, ASTM 1904)

PROJECT	مشروع المطار الجديد	STATION	
Customer	EGY CONTRACT	Concrete Grade/Type	C18 800 - 1000
STATION	4000+000-400+000 (1-5-800)		
DATE OF CASTING	21-Jan-2024	Measured Strength	180 kg/cm^2
POURED QUANTITY		no. of cubes made	8
CONCRETE SLUMP			
TARGET SLUMP			Sub to water

n. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm.)	Weight (g)	Density (kg/m^3)	Failure Load (kN)	Comp. Strength (kg/cm^2)	Average (kg/cm^2)
1	18-Feb-24	28	150	7600	2.53	882.0	588.0	575.1
2			150	7600	2.57	764.0	518.0	
3			150	7625	2.54	878.0	597.7	

MODES OF FAILURE AS PER BS 1881 - Part 116:1998		140.8	القوة
Bed failure 		Unsound failure 	
Remarks: Results are acceptable as per BS 1881 - Part 116:1998 Specimen Test 116 in the test conditions for more specimens or in the present condition for subsequent test specimens Note: T indicates tensile cracking Remarks: Specified Loading Rate Range = 4 MPa/s to 1.0 MPa/s or 0.2 MPa/s			

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mr. Mohamed	Ali Mohamed	AMR ATEF
Mr. Mohamed	Ali Mohamed	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AM1 6097:1988, 6728:1991













PROJECT	مشاريع الطرق السريع	STATION	
Contractor	EGY CONTRACT	Concrete Content/Type	110 kg - OPC
STATION	at SBH4421.5 - SBH4473.5 L+D 82 / at SBH4396.5 - SBH4453.5 L+D 82 at SBH4386.5 - SBH4473.5 L+D 81		
DATE OF CASTING	12-Jan-2014	Specimen Strength	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CORES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	28-Jan-14	7	150	8849	1.19	885.0	185.8	189.1
2			150	8859	1.19	876.0	198.2	
3			150	8929	1.18	941.0	204.1	

MODES OF FAILURE AS PER BS 1881, Part 116, 1983		103.6	النسبة
<div style="display: flex; justify-content: space-between;"> <div> <p>Satisfactory</p> </div> <div> <p>Unsatisfactory</p> </div> </div>			
<p>Remarks:</p> <p>Results measurements carried out in accordance BS 1881, Part 116 in the air cured condition for most specimens and in the saturated condition for calibration control specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4 kN/s to 9.0 kN/s or (4 kN/s to 9 kN/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QM MANAGER	
Mr. Mohamed	Amr Ash		
Mr. Mohamed	Amr Ash		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	مشاريع الطرق السريع		STATION					
Customer	EGY CONTRAC		Cement Concrete Type 310 KG-OPC					
STATION	at 500+450.2 - 500+451.8 L-A B1 (at 500+451.8 - 500+454.8 L-A B 1)							
DATE OF CASTING	22-Jan-2024		POURED STRENGTH	150 kg/cm ²				
POURED QUANTITY		m ³	NO. OF CUBES MADE	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	29-Jan-24	7	150	8099	2.40	595.0	265.4	261.4
2			150	8109	2.40	595.0	261.7	
3			150	8077	2.39	561.0	255.8	





MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						104.6	النسبة
Satisfactory			Unsatisfactory				
 A	 B	 C	 D	 E	 F		
			 G	 H	 I		
			 J	 K	 L		

Remarks :

Results assessment is carried out in accordance with BS 1881 Part 116 in the specified condition for most specimens are in the unsatisfactory condition for compressive strength

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 0.5MPH to 1.0MPH or (0.5N/MS) to (1.0N/MS)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed		
M. Mohamed		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT		مشاريع الطرق السريع		STATION	
Customer		EGY CONTRACT		Contract Contract/Type : 110 541 - OPC	
STATION		14 500+000.0 - 500+047.5 L-D R2 / 14 500+390.0 - 500+393.0 L-D R2 14 500+430.0 - 500+475.0 L-D R1			
DATE OF CASTING		11-Jan-2014		SPECIFIC GRAVITY : 250 kg/m ³	
Poured QUANTITY		m ³		No. of cubes made : 6	
FINISHING SLUMP		Cm			
TARGET SLUMP		Cm		Type of curing : Sub in water	

No. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	19-Feb-14	28	150	8107	1.46	924.0	416.6	407.2
2			150	8100	1.42	868.0	393.2	
3			150	8135	1.41	905.0	416.6	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983						162.9	النسبة
Satisfactory			Unsatisfactory				
Remarks:			<p>Results determined in accordance with BS 1881 Part 116 in the specified conditions for these specimens are as follows:</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 4.5kN/s to 10.0kN/s or 16.0kN/s</p>				
COMPANY ENGINEER		CONSULTANT ENGINEER		Q.C. MANAGER			
A. Mohamed		Ahmed Ali					
A. Mohamed		Ahmed Ali					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 (BSI:1983, 4318:1991)

PROJECT	مشاريع الطرق السريع	STATION	
Contractor	ECY CONTRAC	Concrete Content Type	100 NC - OPC
STATION	a 100+000.0 - 100+010.0 1-5 R2 / a 100+000.0 - 100+010.0 1-5 R1		
DATE OF CASTING	12-Jan-2024	Plaster strength	150 kg/cm ²
POURED QUANTITY	m ³	Vol. of concrete	4
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	Time of setting	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Moisture (mm ³ / L)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. strength kg/cm ²	Average kg/cm ²
1	19-Feb-24	28	150	8120	2.40	868.0	283.3	283.3
2			150	8095	2.40	879.0	289.2	
3			150	8094	2.39	868.0	283.3	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983

Satisfactory

Unsatisfactory

155.6 الكيلو

Remarks:

Quality measurements & inspection in accordance with BS 1881: Part 116 is the preferred condition for test specimens are in the satisfactory condition for subsequent evaluation.

Note: T indicates tensile cracking

Remarks: Specimen Loading Rate Range = 0.25 MPa to 1.0 MPa per 30 SECONDS		QC-MANAGER
COMPANY ENGINEER	CONSULTANT ENGINEER	
Mr. Mohamed	Abdul All	
Mr. Mohamed	Abdul All	



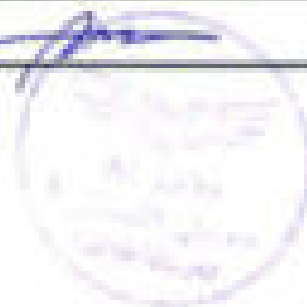


DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 11a (FREEMED 6091:1985, 6730:1991)

PROJECT	مشروع القطر السريع		STATION	
Customer	ECV CONTRACT		Concrete Contract Type 310 KJ - DPC	
STATION	at 500+000 - 500+100 L-B-B1 at 500+020 - 500+030 L-B-B1			
DATE OF CASTING	13-Jan-2024		specimen strength	250 kg/cm ²
POURED QUANTITY		m ³	vol. of cubes made	6
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	Test in water	Sub to water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	10-Jan-24	7	150	796.3	2.64	609.8	216.6	208.5
2			150	8045	2.66	781.8	217.6	
3			150	8071	2.69	643.8	201.3	

MODES OF FAILURE AS PER BS 1881 - Part 11a (FREEMED 6091:1985, 6730:1991)		123.4	القيمة
Satisfactory	Unsatisfactory		
Remarks:			
Results measured in accordance with BS 1881 Part 11a in the as received condition for most specimens or in the saturated condition for laboratory tested specimens			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 0.5 MPa/s to 1.0 MPa/s or (0.5 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Abdel	AMR ATIF	
M. Mohamed	Ahmed Abdel		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (PREPARED 6092:1988, 6718:1991)

PROJECT	مشاريع الطرق السريع	STATION	
Contractor	EGY CONTRACT	Cement Concrete Type	210 40/1 - OPC
STATION	4 500+000 - 500+700 L-A-B1 / 4 500+000 - 500+000 L-B-B1		
DATE OF CASTING	23-Feb-2024	Expected strength	270 kg/cm ²
POURED QUANTITY		NO. OF TESTS WAST	4
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Strain	Weight (gm)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	18-Feb-24	18	150	8020	2.38	896.8	387.8	391.8
2			150	7920	2.35	823.8	372.8	
3			150	8003	2.37	906.8	414.9	

MODES OF FAILURE AFTER 28 DAYS (BS 1881 - Part 116:1991)		150.7	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Results measurement obtained with automatic LATHE</p> <p>BS 1881 Part 116 is the standard procedure for the test specimens or in the selected position for the specimens used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.25 N/S to 0.6 N/S or (0.25 N/S)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Adel	AMR ATY	
M. Mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 119:1983 AND BS 1881-1983, 4720:1991

PROJECT	مشاريع الطرق الجديدة	STATION
Customer	EGY CONTRACT	Concrete Content Type 310 KG-OPC
STATION	at 888+425 - 888+480 L-D-B1 / at 888+561 - 888+723 L-D-B 1	
DATE OF CASTING	24-Jan-2024	Required Strength : 250 kg/cm ²
POURED QUANTITY	m ³	No. of cubes made : 6
CONCRETE SLUMP	cm	
TARGET SLUMP	cm	Type of curing : Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	21-Jan-24	7	150	5992	2.27	679.8	289.8	279.5
2			150	6014	2.26	666.8	271.8	
3			150	6077	2.26	652.8	271.2	

MODES OF FAILURE AS PER BS 1881 - Part 119:1983		111.8	القيمة
Satisfactory	Unsatisfactory		
Remarks : Results determined in accordance with BS 1881-1983, 4720:1991 (BS 1881-1983, 4720:1991) is the standard condition for most specimens or in the standard condition for laboratory used specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Phaed Adel	ASIRATEP	
M. Mohamed	Phaed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6726:1991

PROJECT		STATION	
Customer: <i>EG-CONTRAC</i>		Concrete Class/Type: <i>C15</i> / <i>20</i>	
STATION: <i>11</i>		at 500-625 - 600-650 L-D-BU / at 500-700 - 600-725 L-D-BU	
DATE OF CASTING: <i>14-Jun-2024</i>		POURED QUANTITY: <i>150</i> kg/m ³	
FORMED QUANTITY: <i>150</i> m ³		NO. OF TESTS MADE: <i>3</i>	
CONCRETE SLUMP: <i>150</i> mm		TYPE OF CURING: <i>Sub in water</i>	
TARGET BLEND: <i>150</i> mm			

No. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	<i>14-Jun-24</i>	<i>T</i>	<i>150</i>	<i>8007</i>	<i>2.39</i>	<i>765.0</i>	<i>105.4</i>	<i>106.2</i>
2			<i>150</i>	<i>8025</i>	<i>2.36</i>	<i>694.0</i>	<i>114.4</i>	
3			<i>150</i>	<i>8001</i>	<i>2.37</i>	<i>695.0</i>	<i>114.8</i>	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 119

Satisfactory

Unsatisfactory

Remarks: *Results measured & recorded in accordance with BS 1881 Part 116 in the required condition for test specimens as in the required condition for laboratory test specimens*

Note: T indicates tensile cracking












Remarks: *Specified Loading Rate Range = 0.25MPa/s to 0.5MPa/s or (0.5MPa/s)*

COMPANY ENGINEER	CONSULTANT ENGINEER	Q&E MANAGER
<i>M. Mohamed</i>	<i>Ahmed Abdel</i>	<i>AMR ATY</i>
<i>M. Mohamed</i>	<i>Ahmed Abdel</i>	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116 (BSI/BSI/1988, 4728/1993)

PROJECT	مشاريع الطرق الجديدة		STATION					
Customer	EGY CONTRACT		Concrete Content Type 310 AC-11PC					
STATION	n 300x315 - 300x300 L-B-01 / n 300x315 - 300x315 L-B-01							
DATE OF CASTING	16-Jan-2024		TESTED DATE (mm)	28 kg/cm²				
PLUMBED QUANTITY			NO. OF CUBES MADE	6				
CONCRETE SLAB	Cm							
TARGET SLAB	Cm		TYPE OF CURING	Sub in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	21-Feb-24	28	150	8112	2.46	887.6	481.8	548.9
2			150	8150	2.47	741.8	315.7	
3			150	8171	2.48	818.8	548.2	

MODES OF FAILURE AS PER BS 1881 (Part 116, 1988)		147.6	النسبة
Satisfactory		Unsatisfactory	
  		  	
  		  	
<p>Remarks:</p> <p>Results determined & tested and is accordance with BS 1881 (Part 116) in the test method condition for report generation as per the approved condition for laboratory test procedure</p> <p>Note : T indicates tensile cracking</p>			
<p>Remarks : Specified Loading Rate Range = 4 MPa/s to 5.0 MPa/s or (4 MPa/s)</p>			

TEMPARY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Abdel	AMR ATEF
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (ISO AND ASTM 689, 6726-1991)

PROJECT	مشاريع الطرق السريع		STATION
Contractor	ECV CONTRACT		Contract Contract Type
STATION	K 100+100 - 100+150 / 100+150 - 100+200		110 80 - 000
DATE OF CASTING	14-Feb-2024		Age of concrete (days)
Poured QUANTITY	m ³		250 kg/cm ²
CONCRETE SLUMP	cm		8
TARGET SLUMP	cm		Sub to water
No. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm, g)
1	11-Feb-24	28	150 8145
2			150 8115
3			150 8075
			Density (kg/m ³)
			Failure Load (kN)
			Comp. Strength (kg/cm ²)
			Average (kg/cm ²)
			342.3

MODES OF FAILURE AFTER BS 1881 - Part 116 - 1991						152.9	النسبة
Satisfactory			Unsatisfactory				
Remarks : Results assessment is carried out in accordance with BS 1881-Part 116 in the unsatisfactory condition for visual examination of the concrete specimens for laboratory visual assessment							
Note : T indicates tensile cracking							
Remarks : Specified Loading Rate Range = 4.5kN/s to 5.5kN/s or (0.5kN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER		Q.C. MANAGER				
M. Mohamed	Ahmed Adel		AMR ATIF				
M. Mohamed	Ahmed Adel						














DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6710:1991

PROJECT	مشاريع الطرق السريع	STATION	
CLIENT	EGY CONTRAC	Cement Content/Type	310 SG - OPC
STATION	من 108 + 000 إلى 109 + 000		
DATE OF CASTING	25-Jan-2024	Specified Strength	250 kg/cm ²
FOURTH QUANTITY		No. of Tests Made	8
CONCRETE SLUMP			
TARGET SLUMP		Type of curing	Sub to water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	1-Feb-24	T	150	8145	2.41	734.0	321.1	328.1
2			150	8139	2.41	724.0	318.9	
3			150	8050	2.39	665.0	301.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		128.0	النسبة	
Satisfactory	Unsatisfactory			
  	  			
<p>Remarks:</p> <p>Results of assessment is carried out in accordance with BS 1881 Part 116 in the six required positions for most specimens and in the required positions for laboratory control specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 1.0kN/s to 0.0kN/s or (0.0kN/s)</p>		  		
<p>COMPANY ENGINEER</p> <p>م. م. محمد</p>		<p>CONSULTANT ENGINEER</p> <p>Ahmed Abd</p>		
<p>QC MANAGER</p> <p>Amr</p>				





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

PROJECT	مشروع مطار السويح	STATION	
Customer	EGT CONTRAC	Concrete Category Type	210 RC - C25C
STATION	LDB	الموقع	من 483+508 إلى 483+508
DATE OF CASTING	25-Feb-2024	REQUIRED STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	25-Feb-24	28	150	8148	2.41	877.8	585.2	488.7
2			150	8108	2.40	962.8	635.5	
3			150	8108	2.40	911.8	597.7	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983

182.5

القيمة

Satisfactory



Unsatisfactory



Remarks:

Specimen dimensions are correct and it conforms with BS

1881 Part 116 as the specimen condition for most specimens are in the required condition for satisfactory test specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
provisional	Abdul Aziz	AMRATED
provisional	Abdul Aziz	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4728:1991

PROJECT	مشروع القطر السريع	STATION	
CUSTOMER	EGY CONTRAC	Cement Concrete Type	310 KG - OPC
STATION	L.O.8 من 211+508 إلى 213+508		
DATE OF CASTING	23-Jan-2024	PLASTER STRENGTH	250 Kg/cm ²
POLISHED QUANTITY	m ³	NO. OF TESTED CUBES	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water














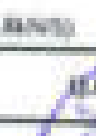


n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Feb-24	7	150	8600	1.37	603.0	273.2	280.0
2			150	7996	1.37	611.0	285.8	
3			150	8660	1.38	620.0	280.9	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		112.0	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E		 F	 G
<p>Remarks:</p> <p>Results measurement & recorded as per BS 1881 Part 116 in the as received condition for most specimens are as the measured condition for laboratory cured specimens</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 4.26N/s to 5.0 kN/s or (0.8N/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
m.mahmoud	Ahmed H. H.		
m.mahmoud	Ahmed H. H.		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1988, 6726:1991

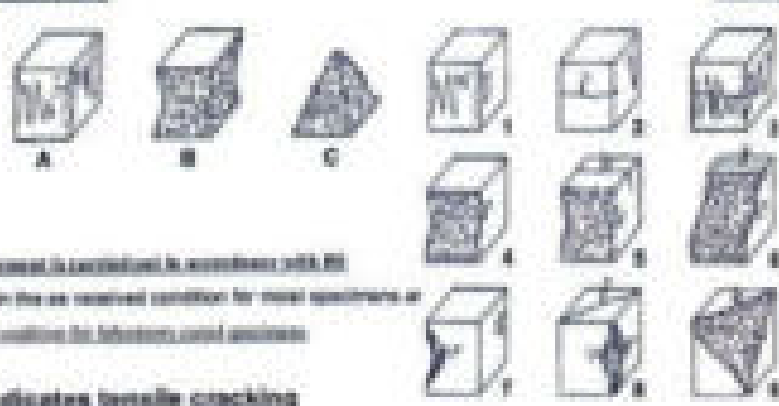

PROJECT		مشروع الطرق السريع		STATION	
Customer		EGY CONTRAC		Concrete Content Type	
STATION :		T22-808		310 KG - OPC	
DATE OF CASTING		27-Jan-2024		1.0 B _h	
POURED QUANTITY		m ³		PLASTERED DIMENSION	
CONCRETE SLUMP		Cm		250	
TARGET SLUMP		Cm		NO. OF CUBES MADE	
				4	
				TYPE OF CURING	
				Sub in water	

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	14-Feb-24	18	150	8090	1.40	876.0	366.8	383.4
2			150	8165	1.42	819.0	371.0	
3			150	8128	1.41	864.0	362.3	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						153.4	النسبة
Satisfactory			Unsatisfactory				
							
A	B	C					
							
							
<p>Remarks:</p> <p>Specify the mode of failure as per BS 1881 - Part 116: 1983</p> <p>Also specify the test conditions for each specimen as per BS 1881 - Part 116: 1983</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4 kN/s to 6 kN/s or (0.4 MPa/s to 0.6 MPa/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER	JLC MANAGER					
M. mohamed	Abdul Adil						
M. mohamed	Abdul Adil						

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (ENISAND 6897:1988, 4720:1991)


PROJECT	مشروع المطار الجديد		STATION					
Customer	EGY CONTRAC		Concrete Content/Type : 110 KG - OPC					
STATION	1077+447 to 1079+042 (L.S.B1)							
DATE OF CASTING	28-Jan-2014		required strength : 250 kg/cm ²					
POURED QUANTITY	m ³		No. of cubes made : 6					
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm		TYPE OF CURING : Sub to water					
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Feb-14	7	150	8840	1.38	992.8	268.2	268.2
2			150	7950	1.36	999.8	271.3	
3			150	7984	1.37	992.8	268.2	

MODES OF FAILURE AS PER BS 1881 - Part 116, 118		107.7	القيمة
Satisfactory	Unsatisfactory		
			
Remarks :			
Results measurement is carried out in accordance with BS 1881 Part 116 in the unconfined condition for most specimens or in the unconfined condition for defective, control specimens			
Note : T indicates brittle cracking			
Remarks : Specified Loading Rate Range = 0.5kN/s to 0.8 kN/s or 0.5kN/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Mohamed Mohamed	Mohamed Abdel		
Mohamed Mohamed	Mohamed Abdel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1995

PROJECT	مشاريع مطار السبع	STATION
Customer	EGY CONTRAC	Concrete Content/Type : 318 KG - OPC
STATION	1	at 407+447 to 507+552 (S.S-RT)
DATE OF CASTING	28-Jan-2024	DESIGNED STRENGTH : 250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Subj to water

No. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Feb-24	7	150	8048	2.38	405.8	274.1	301.1
2			150	7968	2.36	404.8	314.4	
3			150	7984	2.37	405.8	314.8	

MODELS OF FAILURE AS PER BS 1881 - Part 116:1983		120.4	النسبة
Satisfactory	Unsatisfactory		
			
Remarks :			
Results assessment is carried out in accordance with BS 1881 Part 116 in the air cured condition for most specimens or in the saturated condition for specimens tested in water.			
Note : T indicates tensile cracking.			
Remarks : Specified Loading Rate Range = 4.2N/MS to 10.2N/MS or (0.2N/MS)			

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Michael Michael	Michael Adel	AMRATED
Michael Michael	Michael Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (BS 1881:1983, 4726:1991)


PROJECT	مشروع مطار السريع		STATION					
Customer	EGY CONTRAC		Concrete Control Type	318 AG - OPC				
STATION :	BYPASS to Bypass (J.A.R.I)							
DATE OF CASTING	28-Jan-2024		POURED STRENGTH :	250 kg/cm²				
POURED QUANTITY		m³	NO. OF CUBES MADE :	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub to water				
s. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength kg/cm²	Average kg/cm²
1	28-Feb-24	28	150	7890	2.34	815.0	348.2	348.0
2			150	7933	2.35	850.0	405.4	
3			150	7950	2.36	750.0	333.4	

MODES OF FAILURE AS PER BS 1881 Part 116: 1991		147.2	النسبة
Satisfactory			Unsatisfactory
Remarks :			
Results assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the as received condition for laboratory used specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4 kN/s to 6 kN/s or (25 kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116/ENASMD 6897:1998, 6726:1991






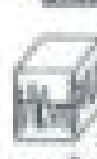








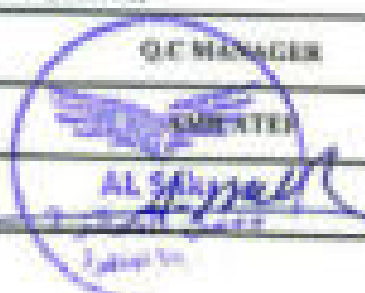


PROJECT	مشاريع القطر السريع	STATION						
Customer	EGY CONTRAC	Concrete Control Type	110	RD - OPC				
STATION	4087+447 to 507+000 (L.A.B.I)							
DATE OF CASTING	28-Jun-2024	POURED CONCRETE (MPa)	210	Kg/cm²				
POURED QUANTITY	m³	NO. OF CUBES MADE	4					
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water					
No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	25-Feb-24	28	150	7890	2.59	814.8	368.7	362.9
2			150	7953	2.58	857.8	388.2	
3			150	7950	2.56	862.8	390.8	

<p align="center">MODE OF FAILURE AS PER BS 1881, Part 116, 119</p>		152.9	النسبة
<p>Satisfactory</p>		<p>Unsatisfactory</p>	
<p>Remarks:</p> <p>Results, measurements & calculations are given below with BS</p> <p>Each Part 116 in this test record contains the test specimens in the correct condition for laboratory used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5 MPa/s to 0.8 MPa/s or 0.4 MPa/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
muhammad mahmoud	Ahmed Abdel	AMR ATIF	
muhammad mahmoud	Ahmed Abdel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6750:1991

PROJECT	طريق المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	310 KG - OPC
STATION		510+507, 507+540	L.O
DATE OF CASTING	30-Jan-2024	Specified Strength	250 Kg/cm ²
PURRED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	6-Feb-24	7	150	8109	2.40	907.0	416.9	397.8
2			150	8074	2.39	893.0	404.5	
3			150	8133	2.41	829.0	375.5	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983						158.8	النسبة
Satisfactory			Unsatisfactory				
 A	 B	 C	 1	 2	 3		
			 4	 5	 6		
			 7	 8	 9		
Remarks :							
Results assessment is carried out in accordance with BS							
(BSI Part 116 is the recommended condition for most specimens and is the standard condition for laboratory used specimens)							
Note : T indicates tensile cracking							
Remarks : Specified Loading Rate Range = 0.25N/s to 0.5 kN/s or (0.25N/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER					
							
							



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1993

PROJECT	مشروع مطار السويح		STATION					
Customer	EGY CONTRAC		Cement Content Type : 318 KG - OPC					
STATION			510-507, 507-545 L.D					
DATE OF CASTING	16-Jan-2024		SPECIFIED STRENGTH :	250 kg/cm ²				
POURED QUANTITY			m ³	NO. OF TESTS MADE : 6				
CONCRETE SLUMP			Cm					
TARGET SLUMP			Cm	TYPE OF TESTING : Sub in water				
S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	27-Feb-24	28	150	7562	2.36	741.8	395.7	368.9
2			150	8032	2.36	887.8	481.8	
3			150	7979	2.36	813.0	369.2	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

147.6

النسبة

Satisfactory

Unsatisfactory



Remarks:


Results assessment is carried out in accordance with BS

1881: Part 116 in the as received condition for these specimens are

in the as received condition for laboratory tested specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.04N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	MANAGER
M. mohamed	Abdul Aziz	
M. mohamed	Abdul Aziz	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/LAMC 6097:1988, 6726:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	BOY CONTRACT	Cement Content/Type	310 KG - OPC
STATION	1	at 507+000 to 507+040 L-0-B1 / at 507+040 to 507+087 L-0-B1	
DATE OF CASTING	11-Jan-2014	Specimen Strength	250 kg/cm ²
POURED QUANTITY		m ³	NO. OF CUBES MADE : 6
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water

S. OF	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	7-Feb-14	7	150	8000	2.67	475.0	215.2	201.9
2			150	7997	2.67	742.0	261.1	
3			150	7978	2.66	688.0	244.5	

MODELS OF FAILURE AS PER BS 1881 - Part 116:1983		112.8	القيمة
Satisfactory	Unsatisfactory		
Remarks : Results are consistent & acceptable to specification with BS (Refer Part 116 to the test method procedure for test specimens at to the specified condition for laboratory conditions)			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 0.2kN/s to 0.5 kN/s or (0.2kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Ahmed Abdel	AMR ATY	
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 114 (RELAIED 6897:1988, 6718:1991)

PROJECT		مشروع مطار الجديد		LOCATION	
Contractor		EGY CONTRAC		Concrete Contract Type : 118 AC - OPC	
STATION		1		at 507+000 to 507+040 L-R RT / at 507+040 to 507+057 L-R-B ()	
DATE OF CASTING		11-Feb-2024		planned strength : 250 N/mm ²	
POURED QUANTITY		m ³		No. of cubes made : 6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm		Type of curing : Sub in water	

No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	18-Feb-24	28	150	8130	1.47	812.0	567.8	411.3
2			150	8271	1.48	825.8	479.0	
3			150	8097	1.48	808.0	447.4	

NUMBER OF FAILURE AS PER BS 1881 - Part 114 (1991)		104.0	النسبة
Satisfactory 		Unsatisfactory 	
Remarks: The test was conducted in accordance with BS 1881-114 (1991) and the test results are as follows: The test results are as follows: The test results are as follows: Note: T indicates tensile cracking.			
Remarks: Specified Loading Rate Range = 0.25 MPa/s to 0.5 MPa/s or (0.25 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Phased 11/2/24	AMR ATYF	
M. Mohamed	Phased 11/2/24		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6728:1991

PROJECT	مشروع مطار السويح		STATION					
Customer	EGY CONTRAC		Concrete Content/Type : 100 KG - 50PC					
STATION	10707-028 to 10707-002 (L.S-B1)							
DATE OF CASTING	1-Feb-2024		Desired Strength : 100 Kg/cm ²					
POURED QUANTITY		m ³	Vol. of cubes made : 8					
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	Type of curing : Sub in water					
Sl. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm.)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	8-Feb-24	7	150	8125	1.41	887.8	178.4	187.7
2			150	8114	1.42	913.8	178.6	
3			150	8085	1.40	941.8	194.1	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		107.1	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for (flexure) tested specimens			
Note: T indicates torsion cracking			
Remarks: Specified Loading Rate Range = 0.25N/S to 1.0 N/S or 0.15N/SEC			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Adel	AMR ATIF	
M. Mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 119:1983 AND BS 1881-1989, 4728:1999

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	100 kg - 100%
STATION		Concrete Content Type	100 kg - 100%
DATE OF CASTING	1-Feb-2024	NO. OF CUBES MADE	8
POURED QUANTITY	m ³	NO. OF CUBES MADE	8
CONCRETE ALL TOP	cm	NO. OF CUBES MADE	8
TARGET SLUMP	cm	NO. OF CUBES MADE	8

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/cm ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	19-Feb-24	28	150	6025	2.68	811.8	167.4	162.2
2			150	6040	2.68	808.0	166.7	
3			150	7165	2.68	861.8	186.5	

<p align="center">MODES IN FAILURE AFTER BS 1881-1983, Part 119: 1983</p> <p align="center">152.9 النسبة</p>		
<p>Satisfactory</p>	<p>Unsatisfactory</p>	
<p>Remarks:</p> <p>Results were obtained in accordance with BS 1881 Part 119 in the test room and conditions for most specimens as per the standard conditions for laboratory tested specimens.</p> <p>Note: T indicates non-compliance</p> <p>Remarks: Specified Loading Rate Range = 4 kN/s to 10 kN/s or 10 kN/s</p>		
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	M. Mohamed	QC MANAGER
M. Mohamed	M. Mohamed	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6893:1989, 6720:1991

PROJECT	مشروع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	310 KG - OPC
STATION	+507+002 to 507+047 (SLS.B1)		
DATE OF CASTING	13-Feb-2024	planned strength	250 Kg/cm ²
PLURED QUANTITY		no. of cubes made	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	type of curing	Sub in water

n. Of cul	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	20-Feb-24	7	150	8148	2.41	688.0	319.8	315.4
2			150	7949	2.34	679.0	307.6	
3			150	7908	2.34	724.0	328.0	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		126.2	القيمة
Satisfactory	Unsatisfactory		
Remarks : Density measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for laboratory tested specimens.			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 0.5N/S to 9.0 N/S or (0.5N/S)			








COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER
Mohamed	Ahmed Abdel	AMR ATIF
Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CURBS
Test Standard BS 1881 - Part 116 (BSI/BSI 6897:1999, 6726:1991)

PROJECT	مشاريع مطار البحرين	STATION	
Customer	BJY CONTRAC	Concrete Content Type	110 kg - OPC
STATION	1	at 927+182 to 927+147 (B.A.B.T)	
DATE OF CASTING	13-Feb-2024	POURED CONCRETE	250 kg/cm ³
POURED QUANTITY	m ³	NO. OF CURB MADE	8
CONCRETE SLUMP	Cm		
LATEST SLUMP	Cm	TYPE OF CURE	Sub to water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	12-Mar-24	28	150	8050	2.68	873.0	294.3	294.3
2			150	7955	2.66	867.0	292.8	
3			150	8080	2.69	869.0	293.7	

MODES OF FAILURE AS PER BS 1881 / Part 116 / CEN		157.7	النسبة
Satisfactory			
			
Unsatisfactory			
			
Remarks :			
Results determined in accordance with BS 1881 Part 116 or the equivalent standard for most specimens or in the relevant standard for reference test specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range - 0.5kN/s to 10 kN/s or 0.5kN/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
		AMR ALI	
			
			



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND SPP-1989, 6720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Cement Content Type	310 kg - OPC
STATION	ST-MT-045.2 - MT-1000 R-D (B)		
DATE OF CASTING	14-Feb-2024	REQUIRED STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	6
TEST WITH SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Specimen (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	14-Feb-24	7	150	8275	2.45	714.0	125.4	207.3
2			150	8025	2.39	639.0	109.5	
3			150	8050	2.39	616.0	105.2	

MODES OF FAILURE AS PER BS 1881: Part 116: 1983		118.9	النسبة
Satisfactory		Unsatisfactory	
Remarks: Specimen specimens is casted and its dimensions are 150mm. with Page 1 in the air test condition for test specimens are in the standard condition for laboratory test results. Note: T indicates tensile cracking. Remarks: Specified Loading Rate Range = 0.2MPa/s to 0.5 MPa/s or (0.20N/s)			
COMPANY ENGINEER Mr. Mohamed S.	CONSULTANT ENGINEER Ahmed A. El.	J.C. MANAGER AMR ATER	
Mr. Mohamed S.	Ahmed A. El.		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	مشاريع الطرق السريع		STATION		
Customer	EGY CONTRAC		Concrete Content/Type	110	RC - CPM
STATION	BT 307+045.0 - 307+080.0 R-D B 1				
DATE OF CASTING	16-Feb-2024		FIELDED STRENGTH	110	Kg/cm ²
POURED QUANTITY		m ³	NO. OF TESTS MADE	4	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm	TYPE OF CURING	Sub to water	

S. OF test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (Kg/cm ²)	Average (kg/cm ²)
1	21-Feb-24	7	150	8830	2.38	621.0	180.3	186.9
2			150	7640	2.32	683.0	173.2	
3			150	7790	2.31	674.0	166.2	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						114.8	القوية
Satisfactory			Unsatisfactory				
Remarks : Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the as-cured condition for reference control specimens. Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 0.35MPa/s to 0.50MPa/s or (0.35MPa/s)							
COMPANY ENGINEER		CONSULTANT ENGINEER		Q.C MANAGER			



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116: FRELAND 4897:1969, 6728:1991

PROJECT		مطروح المطار السريع		STATION				
Customer		EGY CONTRAC		Concrete Class/Type				
STATION		1		S18 NG-DPC				
DATE OF CASTING		14-Feb-2024		ST 507+00.0 - ST 508+00.0 B-D B 1				
POURED QUANTITY		m ³		Placed Strength				
CONCRETE SLUMP		Cm		250 kg/cm ²				
TARGET SLUMP		Cm		No. of cubes made				
				6				
				Type of curing				
				Sub in water				
No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	13-Mar-24	28	150	8115	2.40	815.8	368.1	371.8
2			150	7970	2.36	815.8	369.2	
3			150	8080	2.39	808.8	364.8	


MODES OF FAILURE AS PER BS 1881-Part 116-1992		148.7	النسبة
Satisfactory		Unsatisfactory	
			
			
			
<p>Remarks:</p> <p>Results are consistent with standard test results.</p> <p>BS 1881 Part 116 is the standard method for testing concrete cubes.</p> <p>Note: T indicates tensile strength.</p>			
<p>Remarks: Specified Loading Rate Range = 4 kN/s to 5.0 kN/s or (4 kN/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
A. Mohamed	Abdul Aziz	AMR ATER	
A. Mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4718:1991

PROJECT		مطروح القطار السريع	STATION	
Customer		EGY CONTRAC	Concrete Content/Type	
STATION		BT 507+045.0 - 507+100.0 R-D R 1	Specimen Strength	
DATE OF CASTING		14-Feb-2024	250	
PLANNED QUANTITY		m ³	kg/cm²	
CONCRETE SLUMP		Cm	NO. OF CUBES MADE	
TARGET SLUMP		Cm	4	
			TYPE OF CURING	
			Sub to water	

N. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	13-Mar-24	28	150	7150	2.30	164.0	109.1	171.1
2			150	8115	2.40	898.0	598.8	
3			150	8095	2.40	881.0	583.1	

MODEL OF FAILURE AS PER BS 1881 - Part 116 - 1983						148.6	النسبة
Satisfactory			Unsatisfactory				
<p>Remarks:</p> <p>Results assessment is carried out in accordance with BS 1881 Part 116 in the six specified conditions for most specimens are in the standard condition for laboratory used specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.2kN/s)</p>							
COMPANY ENGINEER		CONSULTANT ENGINEER		Q.C MANAGER			
M. Mohamed		Ahmed Adel					
M. Mohamed		Ahmed Adel					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 4893:1989, 4728:1991

PROJECT		مشاريع الطرق السريع		STATION				
Customer		EDY CONTRAC		Concrete Content Type 310 NO - OPC				
STATION		1						
DATE OF CASTING		17-Feb-2024		ST 90+111.8 - 90+144.8 R.D. R.1				
POURED QUANTITY		m ³		PLACEMENT STRENGTH	150 Kg/cm ²			
CONCRETE SLUMP		Cm		NO. OF TESTS MADE	6			
TARGET SLUMP		Cm		TYPE OF CURING	Sub in water			
S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	24-Feb-24	7	150	7881	2.34	417.0	179.5	186.0
2			150	7897	2.34	498.0	196.2	
3			150	7925	2.35	672.0	284.4	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983						120.0	النسبة
Satisfactory						Unsatisfactory	
<p>Remarks:</p> <p>Density measurement is recorded as it accords with BS 1881 Part 116 in the as received condition for these specimens and in the saturated condition for laboratory used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.24N/s to 9.0 kN/s or (6.36N/s)</p>							
COMPANY ENGINEER		CONSULTANT ENGINEER		Q.C. MANAGER			
p. mohamed		Ahmed Adel		AMR ATEF			
p. mohamed		Ahmed Adel					





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983/AM2 6897:1988, 6710:1991

PROJECT		مشروع المطار السريع		STATION				
Customer		EGY CONTRAC		Concrete Content/Type				
STATION				310	EG-GPC			
DATE OF CASTING		17-Feb-2024		ST 507+194.8 - 507+217.8 B-S B 1				
POURED QUANTITY		m ³		Desired strength	250 Kg/cm ²			
CONCRETE SLUMP		cm		No. of cubes made	6			
TARGET SLUMP		cm		Type of cubes	Sub to water			
No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average Kg/cm ²
1	24-Feb-24	7	150	7888	1.37	671.8	304.8	305.4
2			150	7862	1.36	784.8	318.9	
3			150	8007	1.37	669.8	294.8	

MODES OF FAILURE AS PER BS 1881 Part 116:1983						122.2	النسبة
Satisfactory			Unsatisfactory				
<p>Remarks:</p> <p>Quality measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for test specimens and in the saturated condition for reference test specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5 MPa/s to 5.0 MPa/s or (5.0 MPa/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 124:1983 AND 6897:1989, 6726:1995

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Control Type	308 RC - OPC
STATION :	ST 887+111.2 - 887+141.8 R-D R 1		
DATE OF CASTING	17-Feb-2024	POURED STRENGTH :	158 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING :	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (Kg/m ³)	Failure Load (KN)	Comp. Strength Kg/cm ²	Average Kg/cm ²
1	16-Mar-24	28	150	4960	1.66	815.8	181.9	151.8
2			150	7870	1.33	944.8	427.6	
3			150	7960	1.36	718.8	329.8	

MODES OF FAILURE AS PER BS 1881 - Part 124: 1983		151.8	المتوسط
 satisfactory	 Unsatisfactory		
Remarks: Results assessment is carried out in accordance with BS 1881 Part 124 as the test method conforms for most specimens and to the relevant conditions for laboratory test specimens.			
Note: T indicates tensile cracking.			
Remarks: Specified Loading Rate Range = 4.5kN/s to 4.8 kN/s or (0.5kN/s).			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
Mr. Mohamed	Abdul Aziz	AMR ATEF	
Mr. Mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4097:1989, 4728:1991

PROJECT	مشاريع الطرق السريع	STATION
Customer	EGY CONTRAC	Cement Concrete Type 310 NO - OPC
STATION :	ST 107+155.0 - 107+217.0 B.S. B.1	
DATE OF CASTING	17-Feb-2014	DESIGNED STRENGTH : 250 kg/cm ²
POURED QUANTITY	m ³	NO OF CUBES MADE : 9
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water














S. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm.)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	16-Mar-14	28	150	8142	2.41	765.0	246.5	246.4
2			150	7975	2.37	860.0	289.6	
3			150	8185	2.40	1000.0	453.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983		158.6	النسبة
Satisfactory	Unsatisfactory		
Remarks :			
Density measurement is carried out in accordance with BS 1881 Part 110 in the air saturated condition for most specimens and in the saturated surface dry condition for lightweight concrete specimens.			
Note : T indicates tensile cracking.			
Remarks : Specified Loading Rate Range ~ 4.0 MPa/s to 1.0 MPa/s (plasticity)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1991

PROJECT	مشروع مطار السبع		STATION					
Customer	EGY CONTRAC		Concrete Contents/Type : 100 KG - OPC					
STATION	1		S1007+200 to 1007+425 (L.S.B1) / S1007+510 to 1007+772 (L.S.B1) S1007+847 to 1007+134 (R.D.B1) / S1007+240 to 1007+280 (R.S.B1)					
DATE OF CASTING	18-Feb-2024		PLACED STRENGTH :	150 Kg/cm ²				
POURED QUANTITY		m ³	VOL. OF CUBES MADE :	8				
CONCRETE BLEND		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub in water				
S. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-Feb-24	7	150	8096	1.40	693.6	313.9	314.6
2			150	7994	1.37	718.8	321.6	
3			150	8045	1.37	679.8	307.6	

MODES OF FAILURE AS PER BS 1881 (Part 116 : 1983)		125.8	النسبة
Satisfactory		Unsatisfactory	
  		  	
  		  	
Remarks:			
Specimen dimensions in mm (mm) in (mm) (mm) (mm) (mm) (mm)			
BS 1881 Part 116 is the standard condition for most specimens in the standard condition for specimens used in concrete			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4 KN/s to 6 KN/s or (0.05 N/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
M. Mohamed	Ahmed Abdel		
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 4726:1991

PROJECT	مشاريع مطار السكرك		STATION	
Contract	EGY CONTRACT		Concrete Content Type	210 NC - DPC
STATION	Section 0+00 to 0+423 (L.A.B1) / Section 0+423 to 0+472 (L.A.B1) Section 0+472 to 0+534 (R.A.B1) / Section 0+534 to 0+587 (R.A.B1)			
DATE OF CASTING	18-Feb-2024		Required Strength	350 kg/cm ²
POURED QUANTITY		m ³	Vol. of Form Work	6
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	TYPE OF CURING	Soak in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	20-Feb-24	7	150	6255	2.49	765.0	337.5	303.1
2			150	7820	2.55	618.0	289.0	
3			150	7640	2.52	644.0	291.7	

MODES OF FAILURE AFTER BS 1881 - Part 116:1983		121.2	القيمة
Satisfactory	Unsatisfactory		
Remarks : Results determined & corrected to accordance with BS 1881 Part 116 in the air saturated condition for these specimens or in the saturated condition for laboratory control specimens. Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5kN/s to 7.5kN/s or 0.5kN/s to 0.8kN/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER	
Mr. Mohamed	Ahmed Abdel		
Mr. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:2004 (BSI 1988, ASTM 1991)

PROJECT		طريق المطار الجديد		STATION	
Customer		EDY CONTRACT		Concrete Cubes/Tips: 100 kg - 100%	
STATION		1		Slab: 100 to 101+412 (1.0.0.0) / 1001+113 to 101+173 (1.0.0.1) Slab: 101 to 101+173 (1.0.0.2) / 1001+173 to 101+200 (1.0.0.3)	
DATE OF CASTING		18-Feb-2024		No. of specimens: 100 kg/cm ²	
POURED QUANTITY		m ³		No. of cubes used: 8	
CYLINDRICAL SLAB		Cm		Type of curing: Sub in water	
TARGET SLUMP		Cm			

No. Of test	Date of Test	Age of Test (Days)	Average (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	18-Feb-24	7	100	6153	1.49	714.0	113.4	116.9
2			100	7000	1.39	699.0	109.3	
3			100	7000	1.31	616.0	119.6	

MODES OF FAILURE AS PER BS 1881-Part 116: 2004

116.9 كجم/سم²

Reinforced **Manufactured**

Remarks:

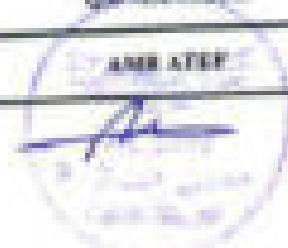
Results determined & recorded as per BS 1881-Part 116: 2004

Test Spec 116 is the standard condition for most specimens as per the standard condition for laboratory control specimens

Note: T indicates tensile cracking

Remark 1: Specified Loading Rate Range = 4.5N/s to 10.0 N/s or (0.05N/s to 0.1N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER
M. Mohamed	Ahmed Adel	AND ATOP
M. Mohamed	Ahmed Adel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 114 (REPLACES BS 1881:1989, 4726:1991)

PROJECT	طريق المطار السريع	STATION						
Contractor	ELTY CONTRACT	Concrete Class/Type 100 40 - CPE						
STATION	50M ³ ± 5% to 50M ³ ± 2% (B.B.B.) / 50M ³ ± 5% to 50M ³ ± 2% (B.B.B.) 50M ³ ± 5% to 50M ³ ± 2% (B.B.B.) / 50M ³ ± 5% to 50M ³ ± 2% (B.B.B.)							
DATE OF CASTING	18-Feb-2024	DESIGNED STRENGTH : 25 Agree						
POURED QUANTITY	m ³	NO OF CUBES MADE : 6						
CONCRETE SLUMP	Cm							
TARGET SLUMP	Cm	TYPE OF CEMENT : Safe in water						
S. OF cu	Date of Test	Age of Test (Days)	Average Mass (mm) 1	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (Agree)	Average (kg/cm ²)
1	15-Mar-24	28	150	8152	2.42	903.8	400.1	100.3
2			150	8046	2.38	888.8	383.2	
3			150	7991	2.37	872.8	365.8	

MODES OF FAILURE AS PER BS 1881 - Part 114:1990		100.3	النسبة
Substandard	Unsatisfactory		
Remarks:			
Results are consistent as per BS 1881:1990, Part 114:1990.			
Test Part 114 is the standard condition for most specimens of concrete intended for use in structures.			
Note - T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or 15.0kN/s			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Adel	AMR ATIF	
M. Mohamed	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (ENSLAND 697:1985, 6726:1991)

PROJECT	مشروع القطر السريع		STATION					
Customer	EGY CONTRAC		Concrete Class/Type : 318 RC - OPC					
STATION :	S+507+396 to S+507+423 (L.B.BE) / S+507+315 to S+507+371 (L.B.BE) S+507+147 to S+507+174 (R.B.BE) / S+507+340 to S+507+385 (R.B.BE)							
DATE OF CASTING	18-Feb-2024		Production Certificate : 128	kg/cm ²				
POURED QUANTITY		m ³	No. of TEST MARK :	8				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub in water				
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	17-Mar-24	28	150	8096	1.48	829.0	549.1	571.8
2			150	7994	1.37	815.0	549.2	
3			150	8008	1.37	808.0	548.0	













MODEL OF FAILURE AS PER BS 1881 - Part 116 (ENSLAND 697:1985, 6726:1991)		148.7	النسبة																
Satisfactory	Unsatisfactory																		
 A	 B	 C	 D	 E	 F	 G	 H	 I	 J	 K	 L	 M	 N	 O	 P	 Q	 R	 S	 T
Remarks : Results measurement is verified and is according to BS 1881-Part 116 in the required condition for mold specimens or in the desired condition for laboratory cast specimens Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 0.5 kN/s to 5.0 kN/s or (0.5 MPa/s)																			
COMPANY ENGINEER					CONSULTANT ENGINEER					QC MANAGER									
Mr. Mohamed					Ahmed Abdelaziz					AMR ATIF									
Mr. Mohamed					Ahmed Abdelaziz														



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6726:1991

PROJECT	مشروع مطار السويح	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	R.D. RT 507+327-507+342 / RT+388-507+381		
DATE OF CASTING	19-Feb-2024	DESIGNED STRENGTH	250 N/mm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	26-Feb-24	7	150	7368	2.38	755.0	342.0	325.6
2			150	7379	2.39	628.0	284.5	
3			150	8055	2.42	713.0	316.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		130.2	القيمة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 1	 2	 3
			 4	 5	 6
			 7	 8	 9

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for hollow core specimens.

Note: 'T' indicates tensile cracking.

Remarks: Specified Loading Rate Range = 4 kN/s to 5.0 kN/s or (0.8 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
on - prepared	Amr Abdel	
on - prepared	Amr Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1985, 6726:1991

PROJECT	مشروع مطار السبع	STATION	
Customer	ECY CONTRAC	Concrete Content/Type	310 KG - OPC
STATION :	L-6 ST 407+362.407+363 / 407+363.407+364 L-D		
DATE OF CASTING	18-Feb-2024	REQUIRED STRENGTH :	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF COARSE	Sab in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	26-Feb-24	7	150	8093	1.39	678.0	307.1	320.4
2			150	8065	1.39	799.0	361.0	
3			150	7883	1.33	645.0	295.2	

MODELS OF FAILURE AS PER BS 1881 - Part 116:1983

128.2

النسبة

Satisfactory

Unsatisfactory



Remarks :

Results measured in vertical and in accordance with BS 1881 Part 116 as the test specimens are in the satisfactory condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 1.5kN/s to 3.0 kN/s or (3.0kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mr. Mohamed	Abdul Aziz	
Mr. Mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1999, 6720:1991

PROJECT	مشروع الطرق السريع		STATION					
Customer	ECY CONTRAC		Cement Content Type 310 KG - 1175					
STATION	K.D ST 807+277-807+382 / 807+388-807+390 R.D							
DATE OF CASTING	19-Feb-2024		required strength	250 Kg/cm^2				
POURED QUANTITY		m^3	no. of cubes made	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	type of curing	Sub to water				
s. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m^3)	Failure Load (kN)	Comp. Strength Kg/cm^2	Average kg/cm^2
1	18-Mar-24	28	150	8400	2.47	999.0	434.4	411.6
2			150	8300	2.46	918.0	412.2	
3			150	8100	2.48	897.0	388.2	

MODES OF FAILURE AFTER BS 1881, Part 116:1983						164.7	النسبة
Satisfactory			Unsatisfactory				

Remarks:

Results determined & verified with accordance with BS

and Part 116 is the as indicated condition for test specimens are in the unsatisfactory condition for laboratory used specimens

Note: - T indicates internal cracking

Remarks: Specified Loading Rate Range = 0.5KN/s to 0.0 KN/s or (0.5KN/s)


















COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
m. mohamed	Abdul Aziz	AMR ATEF
m. mohamed	Abdul Aziz	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6726:1991

PROJECT	مشاريع الطرق السريع		STATION	Concrete Concrete Type	218	AC - OPC		
CHAMBER	EGY CONTRAC							
STATION	L-5 ST 807+047.807+111 / 807+360-807+405 L-6							
DATE OF CASTING	15-Feb-2024		MOULD DIMENSION	230	Kg/cm ²			
POURED QUANTITY		m ³	NO. OF CYCLES MADE	8				
150mm SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub to water				
S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	15-Mar-24	18	150	8150	2.41	980.0	443.9	427.2
2			150	8040	2.34	925.0	419.0	
3			150	7990	2.37	924.0	418.0	

MODES OF FAILURE AS PER BS 1881, Part 116, 1983						170.5	النسبة
Satisfactory			Unsatisfactory				
							
							
<p>Remarks:</p> <p>Specimen measurement is as detailed in accordance with BS 1881 Part 116 in the test method condition for most specimens are in the poorest condition for observation and decision</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.25 MPa/s to 0.5 MPa/s or (0.6 MPa/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER	P.C. MANAGER					
							
							



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 114:1983 AND 6897:1985, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EDY CONTRAC	Concrete Content Type	310 NC - OPC
STATION	R.D. 47 407+300 407+370 ST 407+384 407+435 R.S.		
DATE OF CASTING	16-Feb-2024	nominal strength	250 N/mm ²
PLANNED QUANTITY	m ³	no. of cubes made	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CUBES	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	27-Feb-24	T	150	8185	2.43	768.0	347.9	317.1
2			150	8047	2.38	874.0	381.7	
3			150	7916	2.35	798.0	329.7	

MODES OF FAILURE AS PER BS 1881 - Part 114:1983		126.8	القوة
<div><div>Satisfactory</div><div>Unsatisfactory</div></div>			
<div><div></div><div></div></div>			
<p>Remarks:</p> <p>Results measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.34 MPa/s to 0.6 MPa/s or (0.8 MPa/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
	Abdul Adil	AMR ADIL	
	Abdul Adil		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (ISO AND 6897:1989, ASTM 1991)

PROJECT		مشاريع القطار السريع		STATION				
Customer		EGY CONTRAC		Concrete Concrete Type 100 RC - OPC				
STATION				ST 304-375, 304-347 L/D				
DATE OF CASTING		20-Feb-2024		SPECIFIED STRENGTH : 250 kg/cm ²				
POURED QUANTITY				m ³ VOL. OF CONCR MADE : 8				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	27-Feb-24	T	150	7986	2.67	719.0	321.6	318.2
2			150	8083	2.79	763.0	338.5	
3			150	7980	2.66	694.0	314.4	








MODES OF FAILURE AS PER BS 1881 - Part 116 - 1982		127.3	النسبة
Satisfactory		Unsatisfactory	
Remarks: Results determined in accordance with BS Part 116 in the required condition for most specimens are in the required condition for specimens used specimens			
Note: T indicates surface cracking			
Remarks: Specified Loading Rate Range = 4.000N/s to 8.000N/s or (4.000N/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QA MANAGER	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6893:1989, 6710:1991

PROJECT	مشاريع القطار الجديد	STATION	
Customer	EGY CONTRAC	Cement Concrete Type	110 RC - OPL
STATION :	g. 5 ST 307+185-307+176 : ST 307+084-307+455 g. 5		
DATE OF CASTING	10-Feb-2024	DESIGNED STRENGTH :	250 kg/cm ²
POURING QUANTITY		m ³	NO. OF CUBES MADE :
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING :
			Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	19-Mar-24	28	150	7826	2.32	1031.0	487.8	433.6
2			150	8147	2.41	908.0	411.3	
3			150	8024	2.41	931.0	423.2	










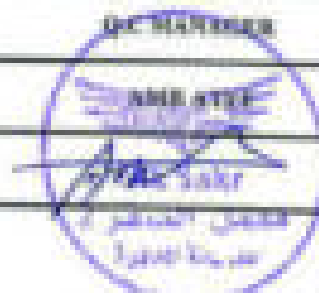
MODES OF FAILURE AS PER BS 1881 - Part 116:1983		173.4	النسبة
<p>Satisfactory</p> <div style="display: flex; justify-content: space-around;">    </div>		<p>Unsatisfactory</p> <div style="display: flex; justify-content: space-around;">    </div>	
<p>Remarks :</p> <p>Results assessment is carried out in accordance with BS 1881 Part 116 in the six specified categories for most specimens are in the satisfactory condition for laboratory tested specimens</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 4.5kN/s to 0.0 kN/s or 16.0kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
Mohamed Mohamed	Abdul Aziz		
Mohamed Mohamed	Abdul Aziz		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (EN 12390-1:1995, 4719:1991)

PROJECT	طريق المطار السريع	STATION	
Contractor	EGY CONTRAC	Concrete Content Type	100 kg - OPC
STATION		Concrete Content Type	100 kg - OPC
DATE OF CASTING	16-Feb-2024	Specimen Strength	250 kg/cm ²
PLACED QUANTITY	m ³	No. of cubes made	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Test in water	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	19-Mar-24	28	150	8090	2.37	1829.0	466.1	435.3
2			150	8227	2.50	965.0	437.1	
3			150	8117	2.45	985.0	403.7	

<p align="center">MODES OF FAILURE AFTER 28 DAYS - Part 116:1982</p>						174.1	النسبة
<p>Failures:</p> <div style="display: flex; justify-content: space-around;">       </div>						<p>Non-failures:</p> <div style="display: flex; justify-content: space-around;">    </div>	
<p>Remarks:</p> <p>Results measurement & recorded are in accordance with BS 1881 Part 116 in the as specified condition for most specimens are in the intended condition for concrete used specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4 MPa/s to 16 MPa/s or (0.1 MPa/s)</p>							
COMPANY ENGINEER		CONSULTANT ENGINEER		O.C. MARKER			
H. Mahrouf		Ahmed Ali					
H. Mahrouf		Ahmed Ali					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	310 BG - OPC
STATION :	R.S ST 507+438-507+483 / ST 507+380-507+432 R.D		
DATE OF CASTING	23-Feb-2024	min. test strength	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of cub	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	28-Feb-24	T	150	8182	2.42	838.0	378.3	354.8
2			150	8112	2.40	778.0	350.6	
3			150	8168	2.42	738.0	334.8	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		141.8	القيمة
Distortional	Unsymmetrical		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks : Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.8kN/s to 6.0kN/s or (5.8kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q. ENGINEER
M. Mohamed	Abdul Aziz	
M. Mohamed	Abdul Aziz	

















DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6893:1999, 6720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Cement Content Type	110 kg - OPC
STATION	ST 807+01.8 - 807+044.8 1.0 R.I		
DATE OF CASTING	11-Feb-2024	SPECIFIED STRENGTH	150 kg/cm ²
POURED QUANTITY	m ³	NOL OF CUBES MADE	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	18-Feb-24	T	150	8098	1.40	755.0	503.8	337.6
2			150	8216	1.44	845.0	582.8	
3			150	8028	1.38	636.0	459.1	

MODES OF FAILURE AFTER BS 1881 - Part 116: 1983						135.1	النسبة
Satisfactory			Unsatisfactory				
							
							

Remarks :
 Results assessment is carried out in accordance with BS 1881 Part 116 in the test method conditions for most specimens are in the approved condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Adel	AMR ATEF
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AM1 6997, 1989, 6729:1991

PROJECT	مشاريع القطار السريع	STATION	
Customer	EGY CONTRAC	Cement / Cement Type	310 RC - OPC
STATION	3.4 ST 507-428-507-483 \ ST 507-381-507-432 & 0		
DATE OF CASTING	11-Feb-2024	PLACED STRENGTH	250 kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE	9
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub to water

S. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	28-Mar-24	28	150	8079	2.39	848.8	354.6	382.2
2			150	8122	2.41	788.8	327.3	
3			150	8190	2.43	902.8	408.4	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		152.9	القيمة
Satisfactory	Unsatisfactory		
Remarks : Results determined in accordance with BS 1881 Part 116 in the as received condition for moist specimens and in the saturated condition for laboratory-cured specimens. Note : T indicates torsile cracking. Remarks : Specified Loading Rate Range = 4 kN/s to 9.0 kN/s or (0.8 kN/s)			

COMPANY ENGINEER	CONSULTANT ENGINEER	JO-MANAGER
H. Mohamed	Abd. Al	
Mr. Mohamed	Abd. Al	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116: IRELAND 6897:1989, 6726:1991

PROJECT	مشروع القطر السريع	STATION	
Contractor	EGY CONTRAC	Concrete Control Type	310 ACI - DPC
STATION	ST 807+011.8 - 807+044.0 1-0 B.1		
DATE OF CASTING	15-Feb-2024	DESIGNED STRENGTH	150 K _g /cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CEMENT	Sulf in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength K _g /cm ²	Average K _g /cm ²
1	20-Mar-24	28	150	8118	2.40	879.0	586.2	575.2
2			150	8048	2.39	787.0	542.9	
3			150	8055	2.38	802.0	546.3	

MODES OF FAILURE AS PER BS1881 - Part 116: 1981		150.9	القيمة
Satisfactory	Unsatisfactory		
Remarks: Results management is carried out in accordance with BS 1881: Part 116 in the test standard conditions for these specimens are in the standard conditions for laboratory tested specimens.			
Note: T indicates twist or sticking.			
Remarks: Specified Loading Rate Range = 0.25 MPa/s to 0.5 MPa/s or (15.0 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
H. Mohamed	Ahmed Ali		
H. Mohamed	Ahmed Ali		

103

104



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 4720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Cement Content Type	100 KG - OPC
STATION	R.D. 8, ST 507+480-507+432, ST 507+543-507+486	g.	
DATE OF CASTING	22-Feb-2024	PLACED DIMENSION	250 Kg/cm ²
FULFILL QUANTITY	m ³	NO. OF TESTS MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Feb-24	7	150	8038	2.38	773.6	309.2	336.8
2			150	8175	2.42	786.6	333.4	
3			150	7715	2.38	710.6	326.2	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		134.6	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 114 in the test room condition for most specimens and in the saturated condition for specimens tested previously.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.35N/s to 0.64N/s or (0.8N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Ad	
M. Mohamed	Ahmed Ad	

105

106



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 11:1983 AND 6897:1989, 6726:1999

PROJECT	مدرج الطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	310 kg - OPC
STATION	1	LD	ST 507+007-507+124 / ST 507+218-507+281 L 6
DATE OF CASTING	22-Feb-2024	Specimen Size (mm)	150 kg/m ³
Poured Quantity		Vol. of Cubes Made	8
CONCRETE SLUMP		Form of Casting	Sub to water
TARGET SLUMP			

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	29-Feb-24	7	150	7760	2.31	708.0	326.7	326.3
2			150	8024	2.38	737.0	333.9	
3			150	7904	2.34	782.0	354.2	

MODE OF FAILURE AS PER BS 1881 - Part 11: 1983		134.5	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results were obtained by testing specimens with BS test Part 114 in the air-cured condition for most specimens and in the saturated condition for specimens used in stress.			
Note: T indicates tensile cracking			
Remark: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (25-50N/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed A. A.		
M. Mohamed	Ahmed A. A.		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6728:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	ECY CONTRAC	Cement Content/Type	310 KG - OPC
STATION	R.D. ST 507+000-507+025 : ST 507+043-507+066		
DATE OF CASTING	22-Feb-2024	Specified Strength	250 kg/cm ²
PIURED QUANTITY		NO. OF CONCRETE	6
CONCRETE SLUMP	Ca		
TARGET SLUMP	Ca	TYPE OF CURING	Sub in water

No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	21-Mar-24	28	150	8090	1.40	876.0	398.3	384.3
2			150	8228	1.47	877.0	397.3	
3			150	8165	1.42	788.0	357.0	

MODES OF FAILURE AS PER BS 1881, Part 116:1981

153.7

النسبة

Satisfactory

Unacceptable



Remarks:

Results measurement is carried out in accordance with BS

1881 Part 116 in the as measured condition for most specimens are in the measured condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 kN/s to 9.0 kN/s or (0.3 kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QM/MANAGER
M. Mahrouf	Ahmed Ali	
M. Mahrouf	Ahmed Ali	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1985, 6726:1991

PROJECT	طريق القطر السريع	STATION	
Customer	EGY CONTRAC	Concrete/Concrete Type	110 300 - OPC
STATION	L5 ST 807-807-807-124 1ST 807-124-807-381 L 4		
DATE OF CASTING	22-Feb-2024	Planned strength (MPa)	250 kg/cm ²
POURED QUANTITY		m³	
CONCRETE SLUMP		cm	4
TARGET SLUMP		cm	
		Type of curing	Sub in water














S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	21-Mar-24	28	150	8125	1.40	793.0	198.8	193.4
2			150	8095	1.40	801.0	195.3	
3			150	8160	1.40	876.0	205.9	

MODES OF FAILURE AFTER 28 DAYS - Part 116, 1981						153.4	النسبة
Remarks: Specimens were tested in accordance with BS 1881 Part 116 in the standard condition for most specimens and in the standard condition for specimens tested in water.							
Note: T indicates tensile cracking.							
Remarks: Specified Loading Rate Range = 0.25 MPa/s to 0.5 MPa/s or (0.5 MPa/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER		QC MANAGER				
M. Mohamed	Ahmed Ali						
	Ahmed Ali						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BS EN 12390-1:2009, 6718:1991)













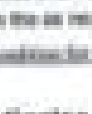





PROJECT	مشروع مطار السويق		STATION					
Customer	EDY CONTRAC		Cement Concrete Type 310 NG - OPC					
STATION	acSBT+532 to SBT+627 (B-D-B1) / ac SBT+683 to SBT+746 (B-D-B1) acSBT+038 to SBT+198 (L-D-B1) acSBT+084 to SBT+121 (L-D-B1)							
DATE OF CASTING	25-Feb-2014		MAXIMUM STRENGTH : 250 kg/cm ²					
NUMBER QUANTITY		m ³	NO. OF CUBES MADE : 9					
CONCRETE SLAB		Cm						
TARGET SLUMP		Cm	TYPE OF CURING : Sub in water					
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Mar-14	T	150	8943	2.38	768.0	151.2	124.8
2			150	7998	2.34	768.0	125.7	
3			150	8023	2.38	675.0	135.4	

MODES OF FAILURE AS PER BS 1881 Part 116, EN 12390-1						124.8	النسبة
Satisfactory			Unsatisfactory				
							
							
							
Remarks : Results measurement is carried out in accordance with BS 1881 Part 114 or the equivalent condition for most specimens or in the relevant condition for reference used specimens.							
Note : T indicates tensile cracking							
Remarks : Specified Loading Rate Range = 4.2kN/s to 5.0 kN/s or (0.05N/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER		QC MANAGER				
M. Mohamed	Ahmed A. A.						
M. Mohamed	Ahmed A. A.						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6097:1999, 4726:1999

PROJECT	مشاريع مطار السراج		STATION					
Customer	EGY CONTRAC		Concrete Class/Type J18 ACI - OPC					
STATION	at 507+152 to 507+427 (B-A-B1) / at 507+483 to 507+546 (B-D-B1) at 507+129 to 507+198 (L-A-B1) at 507+264 to 507+333 (L-D-B1)							
DATE OF CASTING	15-Feb-2024		expected strength	250 Kg/cm ²				
POURED QUANTITY		m ³	total poured volume	8				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	type of curing	Soak in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	1-Mar-24	7	150	7689	2.57	791.8	517.6	509.4
2			150	8019	2.58	662.8	259.9	
3			150	7982	2.57	686.8	268.8	

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983						123.8	النسبة
Satisfactory			Unsatisfactory				
							
							
							
Remarks:							
Specimen was tested in accordance with BS 1881 Part 116 in the as received condition for moist specimens or in the saturated condition for laboratory moist specimens							
Note : T indicates details cracking							
Remarks : Specified Loading Rate Range = 4.24kN/s to 9.04kN/s or (0.04MPa/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER					
Mr. Mohamed	Abmed Abdel	AMR ATEF					
Mr. Mohamed	Abmed Abdel						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 1 (BS EN 12390-1:2009, ASTM C69)

PROJECT	مشروع القطر السريع	STATION
Customer	EGY CONTRAIL	Contract Content Type: 110 ACI - 40%
STATION	A-507+012 to 507+027 (B-D-B1) / B-507+003 to 507+040 (B-D-B1) or 507+079 to 507+108 (L-D-B1) or 507+104 to 507+111 (L-D-B1)	
DATE OF CASTING	25-Feb-2024	Specimen size (mm) : 150 kg/cm ²
POURED QUANTITY	m ³	No. of cubes made : 6
CURE WITH SLUMP	Cm	
TARGET SLUMP	Cm	Type of curing : Sub to water

No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	24-Mar-24	28	150	8133	2.47	695.8	463.8	476.4
2			150	8100	2.46	677.8	443.4	
3			150	8124	2.47	696.8	455.9	

MODELS OF FAILURE AFTER TESTING / Part 128, 129		151.2	النسبة
Satisfactory		Unsatisfactory	
Remarks:			
Results presentation is recorded as in more than 45% of			
test (Type) test in the as received condition for most specimens or			
in the received condition for laboratory test specimens			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 0.5 MPa/s to 0.8 MPa/s or (0.4 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abbas M. El		
M. Mohamed	Abbas M. El		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6710:1991

PROJECT	مشروع مطار البويج	STATION	
Customer	EDV CONTRAC	Concrete Class/Type	C20 / 150
STATION	at 507+152 to 507+157 (B-A-B1) / at 507+481 to 507+486 (B-B-B1) at 507+159 to 507+166 (L-A-B1) at 507+184 to 507+191 (L-B-B1)		
DATE OF CASTING	15-Feb-2014	Specimen Size/Type	150 mm / 150
POURED QUANTITY		NO. OF CUBES MADE	6
CONCRETE SLUMP	150 mm		
TARGET SLUMP	150 mm	Test in water	Sub to water

S. No.	Q. No.	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1		14-Mar-14	28	150	8192	1.43	888.0	59.2	59.8
2	150			8000	1.37	761.0	54.1		
3	150			8054	1.36	843.0	55.4		

MODELS OF FAILURE (AS PER BS 1881, Part 116:1983)		152.3	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks: Specified Loading Rate Range = 4 MPa/s to 10 MPa/s or (0.4 MPa/s to 1.0 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Abdullah A. J. J.	AMR ATIF
M. Mohamed	Abdullah A. J. J.	



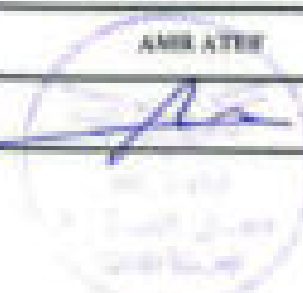
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (ENGLAND 6897:1989, 6718:1991)

PROJECT	مشروع الطرق السريع	SECTION
Customer	EGY CONTRAC	Concrete Content Type 110 KG - OPC
STATION	4+507+545 to 507+600 (R.S.B1) / 5+507+410 to 507+520 (R.S.B1) / 6+507+141 to 507+150 (L.S.B1) / 5+507+142 to 507+191 (L.S.B1)	
DATE OF CASTING	26-Feb-2024	DESIGNED STRENGTH : 250 Kg/cm ²
DESIGNED QUANTITY	m ³	NO. OF CUBES MADE : 9
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Mar-24	7	150	8070	2.39	665.8	301.2	301.3
2			150	8150	2.42	675.8	296.7	
3			150	7975	2.36	682.8	308.8	

MODELS OF FAILURE AS PER BS 1881 - Part 116: 1991		120.8	القيمة
Satisfactory	Unsatisfactory		
Remarks : Density measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for moist specimens or in the saturated condition for laboratory used specimens. Note : T indicates tensile cracking. Remarks : Specified Loading Rate Range = 4 kN/s to 10 kN/s or (0.2 MPa/s)			


















COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed A. 201	AMR ATIR
M. Mohamed	Ahmed A. 201	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (EN 12601:1999, 4718:1999)

PROJECT	مشاريع الطرق السريعة	STATION						
Customer	EGY CONTRAC	Concrete Content Type 100 kg - OPC						
STATION	4+507+540 to 507+400 (S.A.B.R.) / 1+507+400 to 507+730 (S.A.B.R.) / 4+507+140 to 507+150 (S.A.B.R.) / 5+507+140 to 507+200 (S.A.B.R.)							
DATE OF CASTING	26-Feb-2024	Planned quantity : 270 kg/m ³						
PURED QUANTITY	m ³	Vol. of concrete made : 8						
CONCRETE SLAND	Cm							
TARGET SLAND	Cm	Type of testing : Sub to water						
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	4-Mar-24	7	150	7990	2.37	680.0	294.5	297.3
2			150	8040	2.38	675.0	278.6	
3			150	8120	2.41	701.0	304.5	

MODES OF FAILURE (ALTER BS 1881, Part 116, 126)						118.9	القيمة
Satisfactory			Unsatisfactory				
							
							
							

Remarks:

Specimens prepared and tested in accordance with BS

1881 Part 116 in the uniaxial condition for most specimens or

in the uniaxial condition for specimens used for research

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.0 kN/s to 0.5 kN/s or (0.04 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Abdel	AMR ATIF
M. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (EN 12390-1:2009, ASTM 199)

PROJECT		مشاريع المطار السريع		STATION	
Customer		ECU CONTRAC		Concrete Content Type : 110 KG - CPG	
STATION		1. 400T+000 to 500T+000 (CL&BL) / 2. 500T+000 to 500T+020 (CL&BL) / 3. 500T+040 to 500T+060 (CL&BL) / 4. 500T+080 to 500T+100 (CL&BL)			
DATE OF CASTING		26-Feb-2024		Required Strength : 250 kg/cm ²	
POURED QUANTITY		m ³		No. of cubes made : 6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm		Type of curing : Sub in water	

S. No	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	26-Mar-24	28	100	81.12	1.48	895.8	495.4	506.8
2			100	79.89	1.37	905.8	499.1	
3			100	80.19	1.41	941.8	544.7	

MODEX OF FAILURE AS PER BS 1881 - Part 116 : 199		154.8	النسبة
<p>Intact cubes</p> <p>Cracked cubes</p>			
<p>Remarks:</p> <p>1. Specimens were tested in accordance with BS 1881-Part 116 in the standard condition for cube specimens.</p> <p>2. The specimens were tested in the standard condition for laboratory test specimens.</p> <p>Note: T indicates tensile strength.</p> <p>Remarks: Specimen Loading Rate Range = 4.5kN/s to 0.4kN/s or 15.5kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Abdel Adel	AMB. ATOP	
M. Mohamed	Abdel Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (REPLACED 6897:1989, 6726:1991)

PROJECT	مشروع الطرق السريع	STATION
Customer	EGY CONTRAC	Concrete Content/Type 310 RA - 10%
STATION	K/SBT+540 to SBT+600 (R.L.BE) / S/SBT+420 to SBT+520 (R.L.BE) / K/SBT+140 to SBT+190 (L.A.BE) / S/SBT+140 to SBT+200 (L.A.BE)	
DATE OF CASTING	26-Feb-2024	PLANNED STRENGTH : 250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CYCLES WORK : 8
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub to water







n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	26-Mar-24	28	150	8045	1.58	871.0	188.2	189.0
2			150	7995	1.57	842.0	181.4	
3			150	8000	1.58	877.0	197.3	




155.0 القيمة




MODEL OF FAILURE AFTER BS 1881 - Part 116, 1991

Failure mode

Failure mode






Remarks:
 Results are consistent as per test results 155.0
 Test Result 155.0 is less than required strength for design (specifying as per the relevant condition for laboratory tested concrete)
Note - T indicates torsion cracking
Remarks: Specified Loading Rate Range = 0.5N/mm² to 1.0N/mm² or (0.005N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	AND ATED
A. Mohamed	Ahmed Adel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6728:1991

PROJECT	مشاريع الطرق السريع		STATION					
Customer	EGY CONTRAC		Cement Content Type 310 NO - OPC					
STATION	5087+440 to 507+714 (L.A.B.C) / 5087+732 to 507+777 (L.A.B.T) 5087+887 to 507+128 (L.A.B.T)							
DATE OF CASTING	17-Feb-2014		DESIGNED STRENGTH : 300 kg/cm ²					
POURED QUANTITY		m ³	NO. OF CUBES MADE : 8					
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	type of curing : Sub in water					
S. Of cube	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	5-Mar-14	7	150	8122	2.41	671.0	394.8	318.4
2			150	7970	2.36	680.0	312.8	
3			150	7960	2.37	719.0	330.2	














MODES OF FAILURE AS PER BS 1881 - Part 116:1983		126.2 النسبة
Satisfactory	Unsatisfactory	
		
Remarks :		
Specimen preparation is carried out in accordance with BS 1881 Part 116 in the as received condition for test specimens or in the saturated condition for laboratory tested specimens		
Note : T indicates tensile cracking		
Remarks : Specified Loading Rate Range = 4 kN/s to 0.6 kN/s or 15 kN/s		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
M. Mohamed	Ahmed Abdel	AMR ATIF
M. Mohamed	Ahmed Abdel	

AL Sakr للحرسات الخاصة

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6718:1991

PROJECT		STATION	
Client	مشروع القطر السريع	Concrete Class/Type	310 MC - OPC
STATION	EGY CONTRAC	NO. OF TESTS	3
DATE OF CASTING	27-Feb-2024	NO. OF TESTS MADE	3
POURED QUANTITY	m ³	TYPE OF CURING	Sub in water
CURING TYPE SLAB	Cm		
TARGET SLAB	Cm		

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	5-Mar-24	7	150	8100	2.43	659.0	205.5	205.4
2			150	8040	2.38	677.0	206.7	
3			150	7980	2.37	630.0	200.9	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		155.1	النسبة
Satisfactory		Unsatisfactory	
     		  	
<p>Examples:</p> <p>Specimens satisfactorily tested are in accordance with BS 1881 Part 116 in the as received condition for most specimens or in the saturated condition for laboratory tested specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4 kN/s to 7.5 kN/s or 15 kN/s</p>		  	
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Ahmed Abdel	AMR ATIF	
M. Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 119:1983 AND BS 1881, 6726:1999

PROJECT	مشروع الطرق السريع		STATION	
Contractor	EGY CONTRAC		Concrete Content Type	110 kg/m³ - 100%
STATION	K-107+400 to K-107+710 (R.A.B.I) / K-107+710 to K-107+770 (R.A.B.I) K-107+007 to K-107+030 (L.A.B.I)			
DATE OF CASTING	27-Feb-2014		Planned strength	25.0 kg/cm²
POURED QUANTITY		m³	Actual concrete used	0
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	Tested at 28 days	High to water

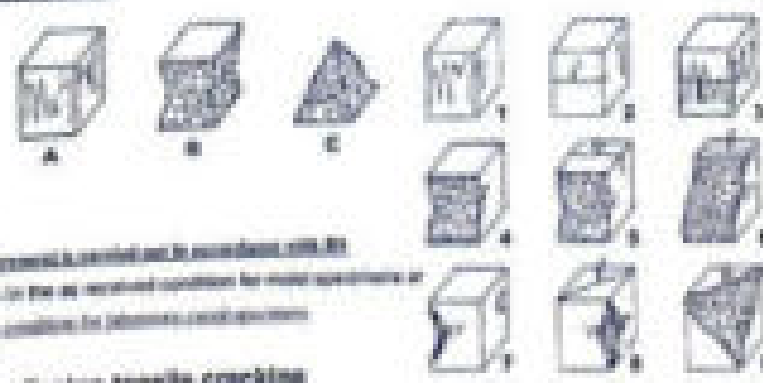
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	28-Mar-14	28	150	8280	2.45	812.0	156.9	155.4
2			150	8270	2.44	858.0	166.7	
3			150	8215	2.44	881.0	179.7	

MODES OF FAILURE AS PER BS 1881 - Part 119:1983		155.3	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Results measured in accordance with BS 1881</p> <p>Tested at 28 days in the air-dried condition for most specimens or in the saturated condition for ultimate test specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5 kN/s to 0.8 kN/s or 0.5 kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
M. Mohamed	Phanej Adel	AND STEP	
M. Mohamed	Phanej Adel		

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6728:1999

PROJECT	مشاريع القطار السريع	STATION
CUSTOMER	EDY CONTRAC	Cement Concrete Type 310 KG - OPC
STATION	$40.907+440$ to $40.907+754$ (R.L. 81) / $40.907+752$ to $40.907+771$ (R.L. 81) $40.907+887$ to $40.907+100$ (L.L. 81)	
DATE OF CASTING	27-Feb-2024	DESIGNED STRENGTH : 250 Kg/cm ²
POURED QUANTITY	m ³	VOL. OF CUBES MADE : 8
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water

No. Of cub.	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (Kg/cm ²)	Average (Kg/cm ²)
1	16-Mar-24	28	150	8145	1.41	887.0	388.2	389.9
2			150	8198	1.43	913.0	413.4	
3			150	8195	1.40	879.0	371.0	

MODES OF FAILURE AS PER BS 1881 / Part 116:1983		القيمة : 150.4
Satisfactory	Unsatisfactory	
		
Remarks : Specimen measurements carried out in accordance with BS 1881 Part 116:1983 and the test carried out in accordance with BS 1881 Part 116:1983 and the test carried out in accordance with BS 1881 Part 116:1983.		
Note : T indicates tensile cracking		
Remarks : Specimen Loading Rate Range = 4.5 MPa/s to 10.0 kN/s or 10.0 MPa/s		
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Abdel	AMR ATIF
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	310 ACI - 11PC
STATION	ك. 5	STATION	ك. 5
DATE OF CASTING	18-Feb-2024	Specimen Strength	240 kg/cm ²
Poured Quantity	m ³	No. of Cured Spec.	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Test of curing	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Mar-24	T	150	8180	2.43	692.0	295.4	287.8
2			150	7790	2.31	621.0	261.3	
3			150	7920	2.35	633.0	266.7	

MODES OF FAILURE AS PER BS 1881: Part 116: 1983		115.1	النسبة
Satisfactory	Unsatisfactory		
Remarks:			
Results determined in accordance with BS 1881: Part 116 or the uniaxial specimens for most specimens in the uniaxial specimens for uniaxial specimens			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 4.5kN/s to 10.0kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	SUPERVISOR	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (EN 12390-1:2002, 6728:1991)

PROJECT		STATION	
Customer	مشاريع القصر الجديد	Concrete Casting Type	Joint RC - OPC
STATION	EGY CONTRAC	Concrete Casting Type Joint RC - OPC	
DATE OF CASTING	28-Feb-2024	WATER-REDUCING ADJ.	LD
POURER QUANTITY	m ³	WATER-REDUCING ADJ.	250 kg/m ³
CONCRETE SLUMP	cm	WATER-REDUCING ADJ.	0
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	6-Mar-24	7	150	8035	2.68	891.0	267.7	273.9
2			150	8160	2.62	600.0	274.1	
3			150	7987	2.77	610.0	280.0	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1992

Satisfactory

100.0

النسبة

Unsatisfactory



Remarks:

Specimen Measurement is checked and is within tolerance (BS 1881)

Tested Part 1st to 3rd as required conditions for tested specimens

as the required condition for laboratory tested specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.0kN/s to 0.2kN/s or (0.02kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
hossam elmaghrabi	Abdul Aziz	AMR A. TET
hossam elmaghrabi	Abdul Aziz	Abdul Aziz



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AMD 6097:1989, 6729:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	308 42.1 - GPC
STATION	R.D. 47 50+700 : 50+717 - 57 50+420 : 50+438 R.D.		
DATE OF CASTING	28-Feb-2024	Wt. of concrete	250 kg/cm ³
POURED QUANTITY		Wt. of concrete	8
CONCRETE SLUMP			
TARGET SLUMP		TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) ±	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average kg/cm ²
1	21-Mar-24	28	150	8279	2.44	773.0	345.7	376.2
2			150	8083	2.38	911.0	412.7	
3			150	7898	2.34	826.0	375.1	

MODES OF FAILURE AFTER BS 1881 - Part 116: 1983

Satisfactory

Unsatisfactory

Remarks:

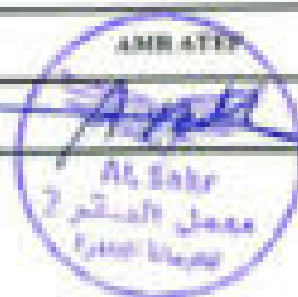
Results agreement is checked and is satisfactory, 100% BS 1881 Part 116 is met as required condition for most specimens

in the required condition for laboratory used specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.25kN/s to 9.0 kN/s or 25 kN/s

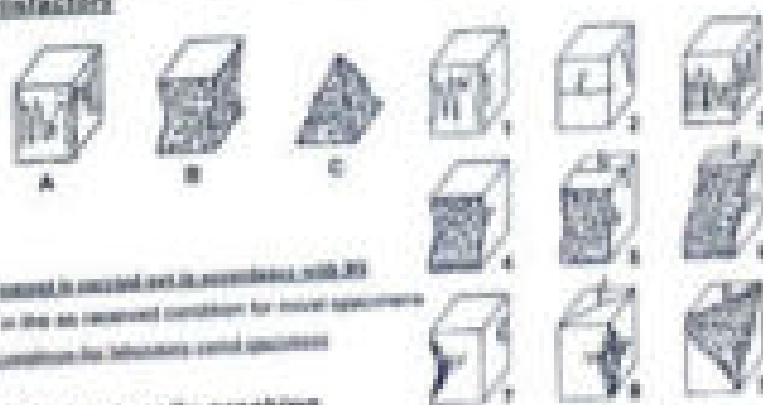


COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
hesham elsayed	Ahmed Adel	AMR ATIF
hesham elsayed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6726:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	310 kg - OPC
STATION	L 6 at station 100 - at station 100 L D		
DATE OF CASTING	29-Feb-2024	SPECIFIED STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. OF no	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	7-Mar-24	7	150	8958	2.39	627.8	284.8	288.9
2			150	8923	2.38	747.8	338.4	
3			150	7996	2.27	685.8	319.3	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		124.4 النسبة
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Satisfactory</p>  </div> <div style="width: 45%;"> <p>Unsatisfactory</p>  </div> </div>		
<p>Remarks:</p> <p>Results determined in accordance with BS 1881 Part 116 in the laboratory conditions for moist specimens or the laboratory conditions for laboratory-cured specimens</p> <p>Note: >T indicates tensile cracking</p> <p>Remark: Specified Loading Rate Range = 4.5kN/s to 9.5kN/s or 16.5kN/s</p>		
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
hesham floss	Abdul Adel	AMR ATU
hesham floss	Abdul Adel	 Al Sakr محاسب الجاهزة

50

122


123



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6997:1989, 6728:1991

PROJECT	مطروح القطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	200 NG - OPC
STATION	1	Report no. / Test no. / Sp. or no. designation	R.8
DATE OF CASTING	28-Feb-2024	APPROX. STRENGTH	250 N/mm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	3
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	7-Mar-24	T	150	4020	2.68	481.0	308.5	304.8
2			150	4001	2.67	494.0	297.2	
3			150	4040	2.69	483.0	305.4	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983		122.0	النسبة								
Satisfactory	Unsatisfactory										
 A	 B	 C	 D	 E	 F	 G	 H	 I	 J	 K	 L
Remarks: Results measurement is carried out in accordance with BS Test (they took in the test room condition for more specimens in the same condition the others could be used)											
Note: T indicates tensile cracking											
Remarks: Specified Loading Rate Range = 0.25N/s to 0.50N/s or (0.5N/s)											
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER									
Wahab Elmaghrabi	Abdul Aziz										
Wahab Elmaghrabi	Abdul Aziz										



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:ENSLAND 6897:1999, 6710:1991

PROJECT	مشروع مطار السويح	STATION	
Contractor	EGY CONTRAC	Concrete Content Type	110 NO - OPC
STATION	LS at intersection of roads 1, 2		
DATE OF CASTING	28-Feb-2014	Specified Strength	250 Kg/cm ²
PURPOSE QUANTITY	m ³	No. of CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Mar-14	28	150	8185	1.48	784.0	155.2	155.0
2			150	8150	1.41	808.0	155.2	
3			150	8100	1.47	811.0	157.2	

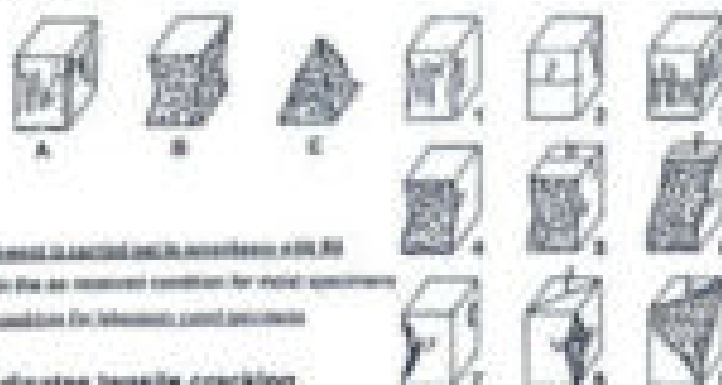
MODES OF FAILURE AS PER BS 1881 - Part 116:1991

155.4

النسبة

Satisfactory

Unsatisfactory



Remarks:

Results were obtained in accordance with BS 1881 Part 116 in the dry measured condition for moist specimens in the measured condition for laboratory tested specimens

Note: T indicates tensile cracking









Remarks: Specified Loading Rate Range = 4 kN/s to 8.0 kN/s or (0.2kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC-MANAGER
Wahid Elmaghrabi	Abdul Aziz	Abdul Aziz
Wahid Elmaghrabi	Abdul Aziz	Abdul Aziz



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/1985, 6728:1991

PROJECT		مشاريع الطرق السريع		STATION				
Customer		EGY CONTRAC		Concrete Control Type 110 AG - OPC				
STATION		R.D		at station R.3				
DATE OF CASTING		25-8-2024		max water content (%) 180 Kg/m ³				
FOUNDED QUANTITY		m ³		vol. of cubes made 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		type of curing Sub in water				
No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-Mar-24	28	150	8110	1.48	856.0	187.8	178.3
2			150	8140	1.48	768.0	142.8	
3			150	8190	1.43	896.0	189.8	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983	151.3	النسبة
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Satisfactory</p>  </div> <div style="width: 45%;"> <p>Unsatisfactory</p>  </div> </div>		
<p>Remarks:</p> <p>Results measurement is recorded as per procedure with BS 1881 Part 116 in the air wetted condition for most specimens</p> <p>in the saturated condition for laboratory used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.14N/mm² to 0.2 N/mm² or (0.14N/mm²)</p>		
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
		
		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983/ASCE 6097:1989, 6726:1993

PROJECT	مشروع مطار السبع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	150 kg - OPC
STATION	R.5 402+474-487+475 / 402+483-487+177 S. D		
DATE OF CASTING	2-Mar-2024	DESIGNED STRENGTH	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	9-Mar-24	7	158	7973	2.36	687.0	375.0	287.4
2			146	8077	2.39	643.0	291.3	
3			150	8213	2.43	693.0	295.8	













MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		114.9	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Results are consistent as tested and in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the as received condition for laboratory cured specimens</p> <p>Note: T indicates tensile strength</p> <p>Remarks: Specified Loading Rate Range = 0.5 MPa/s to 9.0 MPa/s or (5 MPa/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
Eng. Mohamed El-Sayed	Abdul Aziz		
Eng. Mohamed El-Sayed	Abdul Aziz		

AL Sakr للدراسة والبناء

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	ملف مشروع القطر السريع	STATION		
Customer	EGY CONTRAC	Cement Concrete Type	315	KG - OPC
STATION	507+001-507+042 I.D			
DATE OF CASTING	1-Mar-2024	PLASTER THICKNESS	150	kg/cm ²
PLUMBED QUANTITY	m ³	NO. OF CUBES MADE	6	
CONCRETE SLAB	Cm			
TARGET SLAB	Cm	TYPE OF CURING	Sub in water	

n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	9-Mar-24	7	150	8040	2.38	633.0	285.0	286.1
2			150	8217	2.43	618.0	280.0	
3			150	7840	2.32	646.0	292.0	


MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						114.5	النسبة
Satisfactory			Unsatisfactory				
							
							
							

Remarks:

Results assessment is carried out in accordance with BS 1881 Part 116 to the six specified conditions for most specimens and to the relevant condition for laboratory cast specimens

Note: T indicates tensile cracking

Remark: Specified Loading Rate Range = 0.5kN/s to 0.8 kN/s or (0.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Youssef Elsayed	Abdul Ali	
Youssef Elsayed	Abdul Ali	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 609:1999, 4th Ed. 1999

PROJECT	ملف الأشغال	STATION	
Contractor	LEY CONTRACT	Cement Concrete Type	110 32.5 100
STATION	S. 5. 80%+75 80%+75 80%+80 80%+75 80%+75 80%+75		
DATE OF CASTING	1-Mar-2024	Specimen in condition	100 kg/cm ²
POUR METHOD AND QUANTITY		Test on (1) day	0
CONCRETE SLAB MP	C30		
CUBES TEST MP	C30	Test on (1) day	Test in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	30-Mar-24	28	150	6160	2.44	601.0	601.0	671.0
2			150	6282	2.45	634.0	634.0	
3			150	6170	2.43	626.0	626.0	

<p align="center">MODES OF FAILURE ALFEN BS 1881 - Part 116 - 1983</p> <p align="center">1-400 N الفس</p>	
<p>Satisfactory</p>	<p>Unsatisfactory</p>
<p>Remarks:</p> <p>Specimen prepared in accordance with BS 1881</p> <p>Specimen tested in the air standard condition for final acceptance and in the standard condition for comparison with specimens</p> <p>Note: 1 indicates intrinsic structural</p> <p>Remarks: 1 Specified Loading Rate Range = 0.25 N/mm² to 0.5 N/mm² per 30 seconds</p>	
<p>Inspector's Signature</p> <p>Abdullah</p>	<p>Inspector's Signature</p> <p>Abdullah</p>
<p>Inspector's Signature</p> <p>Abdullah</p>	<p>Inspector's Signature</p> <p>Abdullah</p>



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6729:1991

PROJECT		Station	
Customer		EQT CONTRACT	
STATION		Concrete Column Type 310 RC - OPC	
DATE OF CASTING		15-Mar-2024	
PIPED QUANTITY		NO. OF TEST SPECIMENS : 250	
CONCRETE SLUMP		NO. OF TEST MADE : 6	
TARGET SLUMP		TYPE OF CURING : Sub in water	













S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	30-Mar-24	28	150	8280	1.46	874.8	583.2	143.8
2			150	8850	1.39	868.8	582.4	
3			150	7920	1.35	707.8	471.7	

<p align="center">MODES OF FAILURE AS PER BS 1881 - Part 116:1983</p>						<p>143.8</p>	<p>النسبة</p>
Satisfactory			Unsatisfactory				
<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>	<p>E</p>	<p>F</p>	<p>G</p>	
<p>Remarks:</p> <p>Results management is checked out in accordance with BS 1881 Part 116 in the test conditions for most specimens are in the satisfactory condition for laboratory used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 0.5 MPa/s to 0.8 MPa/s or (0.5 MPa/s to 0.8 MPa/s)</p>							
COMPANY ENGINEER	CONSULTANT ENGINEER		QC MANAGER				

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 (AMEND 6897:1989, 6726:1991)

PROJECT		مشاريع الطرق السريع	STATION	
Customer		EGY CONTRAC	Cement Content/Type	
STATION			110 KG - OPC	
DATE OF CASTING		3-Mar-2024	Specified Strength	
POURED QUANTITY		m ³	150 kg/cm ²	
CONCRETE SLAB/SP		Cm	No. of Cured Molds	
TARGET SLUMP		Cm	4	
			TYPE OF CURING	
			Sub in water	

No. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	10-Mar-24	7	150	7856	2.58	688.8	211.7	200.3
2			150	7862	2.54	635.8	204.8	
3			150	7924	2.55	676.0	203.4	

MODELS OF FAILURE AS PER BS 1881 - Part 116 - 1983						120.1	النسبة
Satisfactory			Unsatisfactory				
							
							
							

Remarks:
 Results assessment is carried out in accordance with BS 1881 Part 116 in the six specified categories for most specimens are in the unsatisfactory condition for laboratory used specimens.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4 MP/s to 10 MP/s or 0.5 MP/s

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Heba Elmaghrabi	Abdul Aziz	AND ATOP
Heba Elmaghrabi	Abdul Aziz	Abdul Aziz





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6718:1991

PROJECT		مشاريع الطرق السريع		STATION				
Contractor		EGY CONTRAC		Concrete Cube Type				
STATION				M18 NO. - OPC				
DATE OF CASTING		3-Mar-2024		NOTED - NOTED R.D				
POURED QUANTITY		m³		SPECIFIED STRENGTH				
CONCRETE SLUMP		Cm		NO. OF TESTS MADE				
TARGET SLUMP		Cm		TYPE OF CURING				
				Sub in water				
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength kg/cm²	Average kg/cm²
1	31-Mar-24	28	150	8284	2.43	861.0	290.0	292.3
2			150	8162	2.42	868.0	293.2	
3			150	8119	2.40	869.0	293.7	

MODES OF FAILURE AS PER BS 1881 - Part 116:1981						156.9	النسبة
Satisfactory			Unsatisfactory				
Remarks: Results measurement is correct and in accordance with BS 1881 Part 116 as the test is performed condition for most specimens are in the approved condition for laboratory tested specimens.							
Note: T indicates torsion cracking							
Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	MANAGER					
hisham Elsay	Abdul Aziz						
hisham Elsay	Abdul Aziz						



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6720:1991

PROJECT	مشروع القطر السريع	STATION	
Contractor	EGY CONTRAC	Concrete Cement Type	310 AG - OPC
STATION	+ 500+755.0 - 500+794.8 L-S R 1		
DATE OF CASTING	4-May-2014	Required strength	250 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	11-May-14	T	150	8000	2.67	689.8	213.1	200.9
2			150	8010	2.67	689.8	213.6	
3			150	8200	2.45	667.8	203.3	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						123.6	النسبة
Satisfactory			Unsatisfactory				
							
							
							

Remarks :

Results measurements is carried out in accordance with BS 1881 Part 116 and is the as received condition for most specimens are in the as received condition for specimens used specimens.

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range - 0.5NMS to 0.6 NMS or 0.8NMS

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mr. Mohamed	Ahmed Abdel	
Mr. Mohamed	Ahmed Abdel	





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4973:1989, 4729:1993

PROJECT	ملف المشروع	STATION
Customer	EGY CONTRAC	Concrete Content Type : 110 KL - OPC
STATION :	4-MET-104.2 - MET-104.2 R-L R-L	
DATE OF CASTING	4-May-2024	Planned Strength : 250 Kg/cm ²
PLANNED QUANTITY	m ³	No. of CUBE MADE : 9
CONCRETE BLOMP	Cm	
TARGET BLOMP	Cm	Form or curing : Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-May-24	7	150	7880	2.36	654.0	287.2	311.1
2			150	8070	2.39	627.0	284.0	
3			150	8015	2.37	777.0	352.0	













MODE OF FAILURE AS PER BS 1881 - Part 116:1983		124.4	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 D	 E	 F
<p>Remarks :</p> <p>Results are presented in order of ascending and descending</p> <p>Per Part 116 of the standard, specimens for most specimens are to be tested within the following time periods</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 1.0MPa/s to 0.5MPa/s or (0.05MPa/s)</p>					
COMPANY ENGINEER	CONSULTANT ENGINEER	JOB MANAGER			
M. Mohamed	Abdel Adol	 			
M. Mohamed	Abdel Adol				



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 4097:1985, 4726:1991

PROJECT	طريق المطار السريع	STATION	
Customer	EDY CONTRAC	Concrete Compose Type	210 KG - OPC
STATION	at 100+704.5 - 100+704.8 L-S B 1		
DATE OF CASTING	4-May-2024	TESTED SPECIMENS	150 kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm L)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	1-Jan-24	28	150	8088	2.46	814.0	366.7	369.0
2			150	8075	2.39	826.0	374.2	
3			150	8125	2.40	894.0	364.2	

<p align="center">MODES OF FAILURE AS PER BS 1881: Part 116:1983</p>						<p align="center">147.6</p>	<p align="center">النسبة</p>
<p align="center">Satisfactory</p>			<p align="center">Unsatisfactory</p>				
							
							
							

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 116 or BS 4097 or BS 4726 as required conditions for test specimens are in the standard condition for reference's correct assessment.

Note: - T indicates tensile strength

Remarks: - Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or 25.0kN/s

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Abdel	
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 118:1983 AND 6693:1999, 4728:1991

PROJECT	طريق المطار السريع	STATION	
Customer	EGY CONTRAC	Cement Content Type	300 kg - cov.
STATION	1	H 107+034.8 - 107+044.2 R.S. R.I	
DATE OF CASTING	4-May-2024	EXPECTED STRENGTH	150 kg/cm ²
PLURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp-Strength kg/cm ²	Average kg/cm ²
1	1-Jun-24	28	150	8057	2.38	791.8	348.1	345.3
2			150	7946	2.38	841.8	365.8	
3			150	8073	2.38	783.8	344.7	

MODES OF FAILURE AS PER BS 1881 - Part 118:1983		145.1	القيمة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks :
 Results assessment is carried out in accordance with BS 1881 Part 118 in the as received condition for most specimens and in the saturated condition for specimens used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 0.25MPa/s to 1.0 MPa/s or (0.5 MPa/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
A. Mohamed	Ahmed Badr	
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983/ASD 6997:1985, 6718:1991

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Cement Content/Type	110 K41 - OPC
STATION	at 507+517.8 - 507+545.8 B-D B 1/ at 508+758.8 - 508+772.8 L-D B 1		
DATE OF CASTING	6-May-2014	REQUIRED STRENGTH	150 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub to water

S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm)	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	13-May-14	7	100	7780	2.31	611.8	276.8	300.8
2			100	7970	2.36	664.8	300.8	
3			100	7774	2.30	717.8	324.8	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1981		120.3	النسبة
Satisfactory	Unsatisfactory		
Remarks: Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for laboratory cured specimens.			
Note: T indicates visible cracking			
Remember: Specified Loading Rate Range = 4.0KN/s to 8.0 KN/s or (0.04N/s to 0.08N/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Wahab El Sawy	Abdul Adel		
Wahab El Sawy	Abdul Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CURES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6726:1991

PROJECT	مشروع القطر السريع		STATION					
Customer	EGY CONTRAC		Concrete Grade/Type : F18 AG-OPC					
STATION	K 507+507.8 - 507+544.8 B-D B 1 / أ 508+758.0 - 508+773.8 L-D B 1							
DATE OF CASTING	5-May-2014		DESIGNED STRENGTH	250 Kg/cm ²				
PURVISOR QUANTITY		m ³	NO. OF CURETS MADE	4				
CONCRETE SLUMP		cm						
TARGET SLUMP		cm	TYPE OF CURET	Sub to water				
No. Of curet	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	3-Jun-14	18	150	8945	1.18	818.8	589.6	584.4
2			150	7960	1.16	892.8	684.7	
3			150	7958	1.16	818.8	579.6	

MEANS OF FAILURE AL PER BS 1881: Part 116: 1983		153.8	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Results measurement is carried out in accordance with BS 1881: Part 116 in the as received condition for most specimens are in the saturated condition for laboratory used specimens</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5MPH to 6.0 MPH or 25.0MPH</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	SUPERVISOR	
Amr Elwan	Amr Elwan		
Amr Elwan	Amr Elwan		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6720:1991

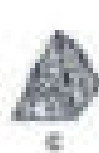
PROJECT		مشروع القطر السريع		STATION				
Customer		EGY CONTRAC		Concrete Content/Type 310 KG - OPC				
STATION		at 300+714.8 - 300+714.8 L-D R1						
DATE OF CASTING		7-May-2024		PLACED STRENGTH : 250 Kg/cm ²				
POURED QUANTITY		m ³		NO. OF CUBES MADE : 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	14-May-24	7	150	8078	2.39	643.8	291.3	297.7
2			150	8328	2.47	657.8	297.6	
3			150	8065	2.38	751.8	348.2	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983

123.9 الكيلو

Satisfactory

Unsatisfactory



Remarks :

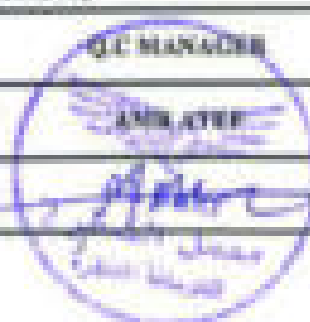
Results measurement is carried out in accordance with BS

1881: Part 116 in the as received condition for most specimens and in the saturated condition for laboratory used specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (5.0kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
Wahid Elsay	Abdul Adel	Abdul Adel
Wahid Elsay	Abdul Adel	Abdul Adel





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116: BRELAND 6897:1989, 6718:1991

PROJECT		مشاريع الطرق السريع		STATION	
Customer		EGY CONTRAC		Concrete Content Type 110 AG - OPC	
STATION				W 300 x 300 x 300 - 300 x 300 x 300 L-S D-1	
DATE OF CASTING		7-May-2024		RECEIVED STRENGTH : 138 N/mm^2	
FOUNDER QUANTITY		m ³		NO. OF CUBES MADE : 6	
CONCRETE SLUMP		cm			
TARGET SLUMP		cm		TYPE OF CURING : Sub in water	

n. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m^3)	Failure Load (kN)	Comp. Strength (N/mm^2)	Average (N/mm^2)
1	14-May-24	7	150	6025	2.58	678.0	387.1	313.8
2			150	6180	2.43	794.0	318.0	
3			150	6010	2.58	686.0	315.1	

MODELS OF FAILURE ALPER BY BRELL Part 116 / 1991		120.5	القيمة																
Satisfactory	Unsatisfactory																		
 A	 B	 C	 D	 E	 F	 G	 H	 I	 J	 K	 L	 M	 N	 O	 P	 Q	 R	 S	 T
Remarks :																			
Results measurement is checked and is within limits with 0.02																			
BS81 Part 116 is the recommended condition for most specimens and is the preferred condition for laboratory tested specimens																			
Note : T indicates tensile cracking																			
Remarks : Specified Loading Rate Range = 0.25N/s to 0.5 N/s or (0.0005 to 0.001 MPa/s)																			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER																	
Mr. Mohamed Elwan	Abdul Aziz																		
Mr. Mohamed Elwan	Abdul Aziz																		





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6720:1991

PROJECT	مشاريع الطرق السريع		STATION					
Customer	EGY CONTRAC		Concrete Class/Type	S18 RG - OPC				
STATION	at 588+754.8 - 588+751.8 I-D R 1							
DATE OF CASTING	7-May-2014		PLACEMENT STRENGTH	250 kg/cm ²				
PLURED QUANTITY	m ³		NO. OF CUBE MADE	8				
CANALRYDE SLUMP	Cm							
TARGET SLUMP	Cm		TYPE OF CEMENT	Sub to water				
n. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	4-Jun-24	18	150	7750	1.58	803.8	143.8	158.8
2			150	7780	1.58	876.8	165.3	
3			150	8070	1.58	895.8	167.3	

MODES OF FAILURE AFTER BS 1881 - Part 116: 1983		143.5	القيمة		
Satisfactory		Unsatisfactory			
 A	 B	 C	 D	 E	 F
 G	 H	 I	 J	 K	 L
Remarks : Results assessment is carried out in accordance with BS 1881-Part 116 to the six defined conditions for test specimens and to the standard criteria for laboratory used and are as:- Note : T indicates tensile cracking Remarks : Specified Loading Rate Range = 4.5NPS to 9.0NPS or (5.5NPS)					
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER			
 Mohamed Elmaghrabi	 Ahmed Abd	 Ahmed Abdel			
 Hassan Elmaghrabi	 Ahmed Abd	 Ahmed Abdel			





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 6720:1991

PROJECT	مشروع المطار الجديد	STATION						
Customer	EGY CONTRAC	Concrete Class/Type	310	RT - OPC				
STATION	at 100+707.2 - 100+800.2 L-R B-1							
DATE OF CASTING	7-May-2024	DESIGNED STRENGTH	250	Kg/cm ²				
POURED QUANTITY	m ³	NO. OF CUBES MADE	6					
CONCRETE SLUMP	cm							
TARGET SLUMP	cm	TYPE OF CURING	Sub in water					
S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	4-Jun-24	18	150	7919	2.55	787.8	164.5	171.4
2			150	7805	2.51	814.8	161.9	
3			150	7848	2.52	805.8	164.7	

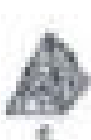
MODEX OF FAILURE AS PER BS 1881, Part 116, 1983

148.9

القيمة

Satisfactory

Unsatisfactory



Remarks:

Results measurement is carried out in accordance with BS

1881 Part 116 in the test room condition for tested specimens are in the standard condition for laboratory and outdoors

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (kN/s)



















COMPANY ENGINEER	CONSULTANT ENGINEER	Q-MANAGER
Mostafa Elmaghrabi	Abdul Aziz	Abdul Aziz
Mostafa Elmaghrabi	Abdul Aziz	Abdul Aziz





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (BSI/BSI 6897:1989, 6716:1991)

PROJECT	طريق المطار السريع		STATION					
Customer	EGY CONTRAC		Concrete Category Type: 310 RC3 - OPC					
STATION	50+000+704 to 50+000+707 (L.S.BE) / to 50+000+703 to 50+000+710 (L.S.BE) to 50+000+000 to 50+000+020 (L.S.BE)							
DATE OF CASTING	11-May-2024		PERMITTED STRENGTH :	310 Kg/cm ²				
POURED QUANTITY		m ³	NO. OF TESTS MADE :	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING :	Sub in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-May-24	7	150	7964	1.76	424.0	282.7	297.6
2			150	7912	1.75	441.0	295.0	
3			150	7999	1.77	396.0	279.0	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1989						119.0	مقبول
Satisfactory						Unsatisfactory	
							
							
							

Remarks:

Results determined & verified as in accordance with BS 1881 Part 116 in the required condition for most specimens or in the required condition for reference control specimens

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.05mm/s)


COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	AMR ATIE
M. Mohamed	Ahmed Adel	


DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 118:1983 AND BS 1881:1983, 4097:1989, 4728:1991


PROJECT	مشروع القطار السريع		STATION					
Customer	EGY CONTRAC		Concrete Content Type 318 kg - OPC					
STATION	50/50/754 to 50/50/857 (L.A.B1) / 50/50/862 to 50/50/878 (L.A.B1) 50/50/883 to 50/50/934 (L.A.B1)							
DATE OF CASTING	11-May-2024		Planned Strength 250 kg/cm ²					
POURED QUANTITY		m ³	No. of Tests Made 8					
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	Type of curing Sub in water					
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	18-May-24	7	150	8013	2.57	692.8	313.3	301.1
2			150	7970	2.56	605.8	301.2	
3			150	7940	2.55	657.8	308.4	


MODES OF FAILURE AS PER BS 1881 - Part 118:1983
120.4 النسبة


Satisfactory Unsatisfactory



A



B



C



D



E



F



G


H


I


J


K



L

Remarks: Specimen measurement is recorded and is correct (BS 1881: Part 118 is the recommended condition for most specimens or as determined condition for laboratory control specimens)

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.05kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Abdel	
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1988, ASTM 1911


PROJECT		مشاريع الطرق الجديدة		STATION		118 RD - OPC	
CLIENT		EGY CONTRACT		Concrete Class/Type		118 RD - OPC	
STATION		1		DATE OF CASTING		11-May-2024	
FINISHED QUANTITY		1 m ³		NUMBER OF TESTS		3	
CONCRETE SLUMP		100 mm		TESTING METHOD		Sub in water	
TARGET SLUMP		100 mm		TESTING METHOD		Sub in water	

No. Of test	Date of Test	Age of Test (Days)	Average		Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
			Test 1	Test 2					
1	18-May-24	7	100	970	1.99	623.0	251.3	254.7	
2			100	965	1.97	627.0	257.6		
3			100	970	1.99	741.0	300.1		


123.9 القيمة

MODES OF FAILURE AS PER BS 1881 - Part 116:1983


SPALLING




A




B




C



D



E

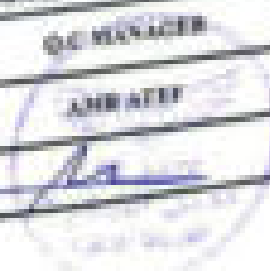


F

Remarks: 1. Check specimens for surface cracking, etc.
 2. Test specimens in the laboratory under the same conditions as the specimens used for the design.

Note: 1. T indicates tensile strength

Remarks: Specified Loading Rate Range = 0.5 MPa/s to 1.0 MPa/s

COMPANY ENGINEER		CONSULTANT ENGINEER		QC MANAGER	
A. Mohamed		Ahmed M201			
A. Mohamed		Ahmed M201			



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BRAND OPTIMUM, 6726/1991)

PROJECT		مشاريع القطار السريع		STATION	
Summary		EGY CONTRACT		Concrete Compress Type 100 NO. 095	
STATION		SMB-104 to SMB-107 (L.A.B) / SMB-102 to SMB-103 (L.A.B) SMB-1001 to SMB-102 (L.A.B)			
DATE OF CASTING		11-May-2024			
REQUIRED QUANTITY		m ³		NO. OF CYCLES MADE	
CONCRETE SLAB		Cm		Cm	
TARGET SLAB		Cm		Type of curing	
		Soak in water			

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	8-Jun-24	28	150	9780	2.46	940.0	410.0	412.0
2			150	9840	2.42	923.0	417.7	
3			150	9920	2.44	876.0	394.1	

MODELS OF FAILURE AS PER BS 1881 - Part 116, 1991

Satisfactory	185.0	قبيل
Unsatisfactory		

Remarks:

Results Assessment Based on BS 1881 Part 116, 1991

Specified Loading Rate Range = 4 (kN/s) to 9 (kN/s) or (0.16 N/s) to 0.36 (N/s)

NOTE: T indicates tensile strength

COMPANY ENGINEER	CONSULTANT ENGINEER	QA MANAGER
M. Mohamed	Ahmed Abdel	
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6720:1991

PROJECT	مشاريع المطار الجديد	STATION
Customer	EGY CONTRAC	Concrete Content/Type 110 NG - OPC
STATION	6+500+750 to 600+000 (L.A.RT) / 6+500+000 to 600+075 (L.A.RT) 6+500+000 to 600+025 (L.A.RT)	
DATE OF CASTING	11-May-2024	DESIGNED STRENGTH 110 N/mm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE 8
CONCRETE SLUMP	cm	
CURABLE SLUMP	cm	TYPE OF CURING Sub in water

S. NO	Date of Test	Age of Test (Days)	Average Dimension	Weight	Density	Failure Load	Comp. Strength	Average
			(mm)	(g)	(kg/m ³)	(kN)	(N/mm ²)	(N/mm ²)
1	8-Jun-24	28	150	6047	2.70	907.6	410.9	399.2
2			150	6067	2.76	896.0	408.0	
3			150	6024	2.78	814.0	368.7	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983						158.1	النسبة
Satisfactory						Unsatisfactory	

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.75 N/S to 9.24 N/S or 10.95 N/S

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Adel	AMR ATIF
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 124/1983 AND 691-1985, 6726-1999

PROJECT		مشاريع الطرق السريع		STATION	
Contractor		EGY CONTRAC		Contract / Cement Type 310 NC - OPC	
STATION		S.M.M. 754 to 760+407 (L.A.R.T.) to 760+423 to 760+478 (L.A.R.T.) to 760+481 to 760+513 (L.A.R.T.)			
DATE OF CASTING		11-May-2024		PLASTER THICKNESS : 200 Kg/cm ²	
POURER QUANTITY		m ³		NO. OF CUBES MADE : 6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm		Type of curing : Sub in water	

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	8-Jun-24	28	150	9769	1.98	961.8	435.1	435.2
2			150	9665	1.91	975.8	394.4	
3			150	9625	1.94	914.8	414.8	

NUMBER OF FAILURE AS PER BS 1881 - Part 124/1983		105.1	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:
 Results measurement is recorded and in accordance with BS 1881-Part 124 to be in the required condition for most specimens & in the required condition for laboratory control specimens













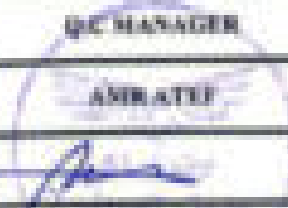
Note: F indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0kN/s or (0.5kN/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
M. Mohamed	Ahmed Abdel	AMR ATER
M. Mohamed	Ahmed Abdel	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116 (ISO/AMC 4697:1988, 4728:1991)

PROJECT		مشروع المطار السريع		STATION				
CUSTOMER		KUWAIT CONTRACT		Concrete Content Type 100 KG - OPC				
STATION		at 500+000 - 500+010 L-0-B1 / at 500+010 - 500+020 L-0-B1						
DATE OF CASTING		12-May-2024		Planned Strength : 100 N/mm ²				
POURED QUANTITY		m ³		No. of cubes made : 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		Type of curing : Sub in water				
No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	19-May-24	7	150	7765	2.50	669.0	285.1	288.3
2			150	7676	2.53	623.0	282.2	
3			150	7765	2.51	617.0	279.0	

MODES OF FAILURE AS PER BS 1881, Part 116, 1988		115.3	النسبة
Satisfactory		Unsatisfactory	
			
			
			
<p>Remarks :</p> <p>Density measurement is performed in accordance with BS 1881 Part 116 in the air saturated condition for moist specimens or in the saturated condition for minimum moist specimens</p> <p>Note : T indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Mohamed	Ahmed Abdel		
Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 118:1983 AND 6897,1986, 6720:1991

PROJECT	مطروح مطار السبع	STATION
Customer	EGY CONTRAC	Cement Content/Type : 310 kg - OPC
STATION	1	14 500+000 - 500+000 L-A-B1 / 14 500+000 - 500+000 L-A-B1
DATE OF CASTING	12-May-2024	Required Strength : 250 kg/cm ²
POURED QUANTITY		m ³ NO. OF CONCRETE MOULD : 4
CONCRETE SLUMP		Cm
TARGET SLUMP		Cm
		Test in water

No. Of cube	Date of Test	Age of Test (Days)	Average Specimen (cm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	19-May-24	7	150	7543	2.38	492.0	315.5	281.2
2			150	7870	2.33	468.0	281.2	
3			150	7590	2.31	477.0	288.4	

MODES OF FAILURE AS PER BS 1881 - Part 118:1983		120.4	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks :
 Results are consistent & satisfactory & conforms with BS 1881 (Part 118) as the test received condition for most specimens or in the intended condition for laboratory used specimens.

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4 N/mm² to 6.0 N/mm² or (0.04N/mm²/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Mohamed	Ahmed Abdel	AMR ATIF
Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 FREEMASD 4097:1989, 4720:1999

PROJECT		مشروع الطرق السريع		STATION	
Customer		EGY CONTRAC		Concrete Control Type 118 NO - 099	
STATION		at 588+000 - 588+025 L-RAIL / at 588+025 - 588+050 L-RAIL			
DATE OF CASTING		13-May-2024		No. of Specimens : 270 kg/cm ²	
POURED QUANTITY		m ³		No. of Cured Mass : 8	
CONCRETE SLUMP		Cm		Type of Curing : Sub in water	
TARGET SLUMP		Cm			

No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (kg)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	8-Jun-24	28	100	7700	1.71	907.0	418.9	420.0
2			100	7600	1.74	996.0	451.2	
3			100	8000	1.77	864.0	408.5	

MODES OF FAILURE AS PER BS 1881 - Part 116, 119		100.3	النسبة
Satisfactory	Unsatisfactory		
<p>Remarks:</p> <p>Results are satisfactory as per BS 1881 - Part 116, 119.</p> <p>Note: T indicates tensile strength.</p>			
<p>Remarks: Specified Loading Rate Range = 4.5N/s to 9.0 N/s or 0.25 MPa/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Mohamed	Ahmed Adel	AMR ATIF	
Mohamed	Ahmed Adel	[Signature]	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6726:1999

PROJECT	مشاريع الطرق السريع	STATION
Customer	EGY CONTRACT	Cement Content/Type 370 kg/m³ - OPC
STATION	at 500+000 - 500+010 L-0-B1 / at 500+020 - 500+030 L-0-B1	
DATE OF CASTING	12-May-2024	Required Strength : 370 kg/cm²
PURCH QUANTITY	m³	no. of cubes made : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	Test in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m³)	Failure Load (kN)	Comp. Strength (kg/cm²)	Average (kg/cm²)
1	9-Jun-24	28	150	7760	2.21	1049.0	475.2	449.8
2			150	7600	2.24	995.0	444.2	
3			150	8010	2.27	995.0	425.6	

MODE OF FAILURE AS PER BS 1881 Part 116:1983		179.9	القيمة
Satisfactory		Unsatisfactory	
<p>Remarks:</p> <p>Specimen successfully tested in accordance with BS 1881 Part 116 in the standard condition for tests performed in the standard condition for laboratory tested specimens.</p> <p>Note: T indicates tensile cracking</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 10.5kN/s or 0.5kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
Mohamed	Ahmed Abdel	AMR ATY	
Mohamed	Ahmed Abdel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6607:1999, 4726:1991

PROJECT	مشاريع الطرق السريع	STATION
Contractor	EGY CONTRAC	Concrete Cement Type : 410 KG - OPC
STATION	No. 540-704.7 to 540-777.5 (2.3.82)	
DATE OF CASTING	13-May-2024	Planned strength : 250 kg/cm ²
Poured Quantity	m ³	No. of cubes made : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	Test at curing : Sub to water

No. Of cube	Date of Test	Age of Test (Days)	Average Dimensions (mm.)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	18-May-24	7	150	7560	2.38	669.8	263.1	266.3
2			150	7878	2.33	613.8	243.2	
3			150	7795	2.33	617.8	246.9	

MODELS OF FAILURE AFTER BS 1881 - Part 116:1983		115.3	القيمة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results are consistent & tested cube is acceptable with BS 1881 Part 116 as the no. required condition for most specimens or as the accepted condition for laboratory control concrete

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5 MPa/s to 0.8 MPa/s or 18 MPa/s

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Adel	AMR ATIF
M. Mohamed	Ahmed Adel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND BS 1881:1983, 6728:1991

PROJECT	مشروع المطار السريع	STATION
Customer	ECY CONTRAC	Concrete Content Type 110 411 - OPC
STATION	10+000+150.0 to 10+000+175.0 (L.A.R)	
DATE OF CASTING	13-May-2024	PC CONCRETE STRENGTH : 240 N/mm ²
POURED QUANTITY	m ³	NO. OF CONCRETE CUBES : 6
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CURING : Sub in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (N/mm ²)	Average (N/mm ²)
1	18-Jun-24	18	150	7910	2.60	787.8	524.5	524.6
2			150	7820	2.62	816.0	545.9	
3			150	7880	2.61	868.0	544.7	

MODE OF FAILURE ALPER BS 1881 - Part 116:1983		148.9	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks:

Results are satisfactory as per BS 1881:1983, Part 116.

BS 1881:1983, Part 116 is the standard condition for test specimens at the age stated condition. In laboratory test condition.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.125N to 4.125N/sec (0.125N/sec)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
M. Mohamed	Ahmed Abdel	AND ATOP
M. Mohamed	Ahmed Abdel	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6719:1991



















PROJECT	مشروع المطار السريع	STATION						
Customer	EGY CONTRAC	Concrete Content/Type	110	M2 - OPC				
STATION	at 100+745.0 - 100+774.5 L-B R.1							
DATE OF CASTING	15-May-2024	Specified Strength	250	Kg/cm ²				
PLACED QUANTITY	m ³	NO. OF CUBES MADE	6					
CONCRETE SLUMP	cm							
TARGET SLUMP	cm	TYPE OF CURING	Sub in water					
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	11-May-24	7	158	8875	2.28	628.0	184.5	179.0
2			158	7865	2.13	687.0	275.0	
3			158	8715	2.40	614.0	179.0	

MODES OF FAILURE AS PER BS 1881: Part 116: 1983		111.8	النسبة
Satisfactory	Unsatisfactory		
Remarks : Results assessment is carried out in accordance with BS 1881: Part 116 in the specified condition for most specimens and in the specified condition for specimens used for research.			
Note : T indicates tensile strength.			
Remarks : Specified Loading Rate Range = 4-MN/s to 9.0-MN/s or 18-MN/s.			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER	
		AMR ATED	
		 Al Sakr شركة الجاهزة الجاهزة	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1981

PROJECT	مشروع القطر السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	310 KG - OPC
STATION	at 500+784.5 - 500+857.0 L-S R 1		
DATE OF CASTING	15-May-2024	EXPECTED STRENGTH	150 Kg/cm ²
PLURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (KN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	15-May-24	7	150	8250	1.44	638.0	289.0	281.8
2			150	7950	1.36	604.0	273.6	
3			150	8015	1.37	619.0	280.4	

MODES OF FAILURE AS PER BS 1881: PART 116: 1983						112.4	النسبة
Satisfactory			Unsatisfactory				
 A	 B	 C	 D	 E	 F		
			 G	 H	 I		
			 J	 K	 L		
Remarks:							
Results measurement is carried out in accordance with BS 1881 Part 114 in the as required condition for most specimens are in the required condition for laboratory control specimens							
Note: J indicates tensile cracking							
Remarks: Specified Loading Rate Range = 4.5KN/S to 5.0 KN/S or (5.5KN/S)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER					
							
							





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983/AM2 6097:1989, 6726:1991

PROJECT	مشروع المطار الجديد		STATION					
Customer	EGY CONTRACT		Cement Concrete Type	X10 RC - OPC				
STATION	at 500+780.2 - 500+875.5 L+R R.1							
DATE OF CASTING	15-May-2024		Specimen Dimensions	150 Kg/cm ²				
POURED QUANTITY		m ³	NO. OF TESTS MADE	6				
CANISTER SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	12-Jun-24	28	150	7998	1.57	844.0	382.3	388.3
2			150	7916	1.56	885.0	400.9	
3			150	8015	1.57	854.0	387.8	

MODES OF FAILURE AFTER BS 1881: Part 116: 1981						156.1	النسبة
Satisfactory			Unsatisfactory				
A	B	C	D	E	F	G	H
Remarks: Specimen measured & certified on its production date (BS 1881: Part 114) as the test was performed under the test conditions as in the standard conditions for laboratory test specimens							
Note: T indicates tensile cracking							
Remarks: Specified Loading Rate Range = 0.5MPa/s to 1.0 MPa/s or (0.5KN/s to 1.0KN/s)							
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER					



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6726:1991

PROJECT	مشروع المطار الجديد	STATION	
Customer	EGY CONTRAC	Cement Content Type	310 400 - 400C
STATION	a 500+742.8 - 500+774.3 L-D R.I		
DATE OF CASTING	15-May-2024	MOULD LENGTH	150 Kgm ³
POURED QUANTITY	m ³	NO. OF CYCLES/SLAB	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kgm/cm ²	Average kg/cm ²
1	13-Jun-24	28	150	8100	3.40	900.0	425.8	413.5
2			150	7950	3.36	921.0	417.7	
3			150	7990	3.37	876.0	394.3	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		165.0	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L
Remarks : Results are consistent as per BS 1881 - Part 116 - 1983 BS 1881 Part 116 is the preferred method for test specimens and is the preferred method for laboratory conditions			
Note : T indicates tensile cracking			
Remarks : Specimen Loading Rate Range = 4 MPa/s to 6.0 MPa/s or (4.5 MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
h/s/ham/2024/1	Amr Adel	 	
h/s/ham/2024/2	Amr Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116 (BSI AND 6097:1989, 8720:1991)

PROJECT	طريق المطار الجديد	STATION
Contractor	EDV CONTRACT	Cement Concrete Type
STATION	at 500+500.2 - 500+515.8 L-R R.T / at 500+515.2 - 500+545.8 L-R R.T	515 R.C - OPC
DATE OF CASTING	18-May-2024	PLASTER STRENGTH
POLYMER QUANTITY	m ³	NO. OF CUBES MADE
CONCRETE SLUMP	Cm	
TARGET SLUMP	Cm	TYPE OF CASTING
		Sub in water

S. OF no	Date of Test	Age of Test (Days)	Average Dimension (mm L)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average Kg/cm ²
1	25-May-24	7	150	8090	1.40	628.8	268.8	273.7
2			150	7935	1.35	599.8	273.3	
3			150	8095	1.40	622.8	267.8	

MODES OF FAILURE AFTER BS 1881 - Part 116 - 1991		177.7	النسبة
<p>Satisfactory</p> <p>Unsatisfactory</p>			
<p>Remarks:</p> <p>Specimens were tested in accordance with BS 1881 Part 116 in the standard condition for test specimens and in the standard condition for reference test specimens.</p> <p>Note: T indicates tensile cracking.</p> <p>Remarks: Specified Loading Rate Range = 4.5kN/s to 1.0 kN/s or (0.05kN/s)</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	O.E. APPROVED	
Abdullah Al-Sakr	Abdullah Al-Sakr	AMN 4788	
Abdullah Al-Sakr	Abdullah Al-Sakr		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 4738:1999

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	210 RC - OPC
STATION	1	at 500+000.0 - 500+010.0 L-R	R 1 / at 500+000.0 - 500+010.0 L-R R 1
DATE OF CASTING	18-May-2024	Specimen size (mm)	150 Kg/cm ²
POURED QUANTITY		m ³	No. of cubes made
CURABLE SLUMP		Cm	
TARGET SLUMP		Cm	Test in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	18-Jun-24	18	150	8054	1.38	1483.0	499.7	464.8
2			150	8056	1.38	1458.0	475.7	
3			150	8025	1.38	910.0	416.8	


MODES OF FAILURE ALPER BS 1881 - Part 116 : 1983		105.6	النسبة
Satisfactory		Unsatisfactory	
 A	 B	 C	 D
 E	 F	 G	 H
<p>Remarks:</p> <p>Results assessed against the criteria set out in BS 1881 - Part 116 and the test results are satisfactory.</p> <p>Note: F indicates failure starting</p> <p>Remarks: Specified Loading Rate Range = 0.14 MPa/s to 0.2 MPa/s or 1.5 MPa/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
Insufficient	Abdul Aal	AMR ATY	
Insufficient	Abdul Aal	AMR ATY	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1985, 4726:1991

PROJECT	مشروع القطار السريع	STATION	
Contractor	EGY CONTRACT	Concrete Content Type	210 ACI - OPC
STATION	A 100+70.5 - 100+70.5 1-0 B 2 / A 100+83.5 - 100+83.5 1-0 B 3		
DATE OF CASTING	18-May-2024	Specified Strength	250 kg/cm ²
PLACES QUANTITY		m ³	NO. OF TESTS MADE
CONCRETE SLUMP		Cm	
TARGET SLUMP		Cm	TYPE OF CURING

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength (kg/cm ²)	Average (kg/cm ²)
1	15-Jan-24	28	150	7995	2.27	943.0	427.2	445.0
2			150	9950	2.95	991.0	448.9	
3			150	8023	2.38	1003.0	458.9	

INDEX OF FAILURE AS PER BS 1881 - Part 116: 1983		178.0	النسبة
Satisfactory   	Unsatisfactory   		
Remarks:			
Specimen dimension is correct and in accordance with BS 1881 Part 116 is the as received condition for most specimens and in the as received condition for stress-rupture specimens			
Note: T indicates tensile cracking			
Remarks: Specified Loading Rate Range = 0.24N/s to 0.64N/s or (0.6N/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER	
			
			



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1999, 6710:1991

PROJECT	مشروع مطار السبع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	100 KG - OPC
STATION :	a-500+04.0 - 500+05.0 L-D B.1		
DATE OF CASTING	10-May-2024	PROPOSED STRENGTH :	250 kg/cm ²
POURED QUANTITY		NO. OF CUBES MADE :	6
CONCRETE SLUMP		cm	
TARGET SLUMP		cm	TYPE OF CURING : Sub in water

S. Of cu	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	25-May-24	7	150	8100	1.40	608.0	175.4	173.9
2			150	7880	1.33	605.0	174.1	
3			150	7990	1.34	601.0	172.3	

<p align="center">MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983</p>		<p>100.6</p>	<p>النسبة</p>
<p>Satisfactory</p>	<p>Unsatisfactory</p>		
<p>Remarks :</p> <p>Visual measurements recorded on the specimens with BS 1881 Part 116 in the as received condition for most specimens are in the saturated condition for laboratory tested specimens</p> <p>Note : 1 indicates tensile cracking</p> <p>Remarks : Specified Loading Rate Range = 0.25kN/s to 0.6 kN/s or 15 kN/s</p>			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
Wahid Elgaray	Abd. Al	ANN ATIF	
Wahid Elgaray	Abd. Al		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND BS EN 12390-1:2009, 6728:1991

PROJECT	مشروع الطريق السريع		STATION	
Customer	EGY CONTRAC		Cement Concrete Type	310 KG - OPC
STATION	+ 500+075.0 - 500+045.0 L-D R 2			
DATE OF CASTING	10-May-2024		REQUIRED STRENGTH	250 Kg/cm ²
PLURED QUANTITY		m ³	NO. OF CYBES MADE	6
CONCRETE SLUMP		Cm		
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water

s. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	25-May-24	7	150	7600	2.38	688.8	275.4	278.4
2			150	8020	2.38	640.8	259.9	
3			150	8015	2.37	596.8	270.8	

MODES OF FAILURE AS PER BS 1881, Part 116, 1983		111.4	النسبة		
Satisfactory	Unsatisfactory				
 A	 B	 C	 D	 E	 F
Remarks: Quality assessment is carried out in accordance with BS 1881 Part 116 in the six specified positions for most specimens and in the selected position for laboratory control specimens.					
Note: T indicates tensile cracking					
Remarks: Specified Loading Rate Range = 4.25N/s to 4.0 kN/s or (0.05N/s)					
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER			



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	100 kg1 - OPC
STATION	1160007.5 - 1160006.5 L-D (B.1)		
DATE OF CASTING	28-May-2024	PER TEST STRENGTH	150 Kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

No. Of Test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	17-Jun-24	28	150	8825	2.38	929.0	416.3	418.1
2			150	9956	2.65	948.0	425.8	
3			150	9568	2.77	918.0	412.2	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983

167.2

النسبة

Satisfactory

Unsatisfactory



Remarks:

Results determined as per test and in accordance with BS 1881 Part 116 in the as required condition for each specimen and in the assumed condition for laboratory control account

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5MPH to 1.0 MPH or (0.5MPH)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
<i>Signature</i>	<i>Signature</i>	<i>Signature</i>
<i>Signature</i>	<i>Signature</i>	<i>Signature</i>



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6726:1991

PROJECT	مشاريع الطرق السريع	STATION	
Contractor	EGY CONTRAC	Cement Content Type	100 KG - 100%
STATION		at 100-100.0 - 100-100.0 L-D R 1	
DATE OF CASTING	26-May-2024	PER UNIT STRENGTH	150 kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	6
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Soak in water

No. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	17-Jun-24	28	150	9765	1.89	981.0	644.0	647.7
2			150	9956	1.95	971.0	640.0	
3			150	9895	1.93	1011.0	658.0	

MODES OF FAILURE AS PER BS 1881 - Part 116:1983						179.1	النسبة
Satisfactory			Unsatisfactory				

Remarks:

Results measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for most specimens and in the saturated condition for cylinders and cylinders.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 0.5N/MS to 1.0 N/MS or (0.5N/MS)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6718:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Class/Type	218 KG - OPC
STATION :	at 500+471.5 - 500+718.5 L-S. B 1		
DATE OF CASTING	21-May-2024	Specified Strength :	250 kg/cm ²
POURED QUANTITY	m ³	No. of cubes made :	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Type of curing :	Sub in water

No. Of cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1-	28-May-24	7	150	8098	2.40	672.0	304.4	299.5
2			150	7941	2.35	673.0	304.9	
3			150	7933	2.35	637.0	288.6	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1981		119.7	النسبة
Satisfactory	Unsatisfactory		
 A	 B	 C	 D
 E	 F	 G	 H
 I	 J	 K	 L

Remarks :

Results measurement is carried out in accordance with BS 1881 Part 116 in dry as received condition for most specimens and in the saturated condition for laboratory control specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 0.25N/s to 0.5N/s or (0.25N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER





DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6720:1991

PROJECT		مشاريع الطرق السريع		STATION	
Customer		EGY CONTRAC		Cement Content/Type : 310 KG - OPC	
STATION		+ 100+651.5 - 500+704.5 L-S B 2			
DATE OF CASTING		11-May-2024		PROMISED STRENGTH : 150 Kg/cm ²	
PULVERED QUANTITY		m ³		NO. OF CUBES MADE : 6	
CONCRETE SLUMP		Cm			
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water	

S. OF cube	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	28-May-24	7	150	8340	1.41	623.8	281.8	285.2
2			150	8008	1.37	644.8	291.7	
3			150	8076	1.38	755.8	342.8	

MODES OF FAILURE AS PER BS 1881 Part 116 : 1983						123.1	النسبة
Satisfactory			Unsatisfactory				

Remarks :

Density measurement is carried out in accordance with BS 1881 Part 116 in the as received condition for these specimens and in the saturated condition for laboratory cured specimens

Note : T indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (0.30N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER
Youssef Elsayed	Abdul Adel	AMR AREF
Youssef Elsayed	Abdul Adel	Amr Aref



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6716:1991

PROJECT	مشاريع المطار الجديد	STATION	
Customer	EGY CONTRACT	Cement Content/Type	330 KG - OPS
STATION	a) SBH-411.5 - SBH-704.5 L-S, R 3		
DATE OF CASTING	11-May-2014	Specimen Strength	150 kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	4
CONCRETE SLUMP	cm		
TARGET SLUMP	cm	TYPE OF CURING	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	18-Jun-14	18	150	8665	1.18	904.8	499.5	497.2
2			150	7943	1.35	1004.8	454.8	
3			150	8045	1.38	1138.8	507.4	

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983		182.9	النسبة
Satisfactory 	Unsatisfactory 		
Remarks : Results assessment is carried out in accordance with BS 1881 Part 116 to the specified condition for most specimens and to the specified condition for inferior test specimens			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (0.5kN/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	
 Mohamed Elmaghrabi	 Ahmed Abdelhameed	 Mohamed Elmaghrabi	
 Mohamed Elmaghrabi	 Ahmed Abdelhameed	 Mohamed Elmaghrabi	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6720:1991

PROJECT	مشاريع الطرق السريعة	STATION	
Customer	EGY CONTRACT	Concrete Content Type	118 KG - OPC
STATION :	+ 984+40.1 - 984+54.8 L-A B I		
DATE OF CASTING	21-May-2024	measured structure	238 Kg/m ³
POURED QUANTITY	m ³	vol. of cubes used	4
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	type of cement	Sulfate water

S. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength N/mm ²	Average kg/cm ²
1	18-Jun-24	28	150	997g	1.99	998.0	44.5	451.0
2			150	999g	1.99	993.0	44.5	
3			150	994g	1.98	1014.0	45.0	

REPORT OF FAILURE AS PER BS 1881 : Part 116 : 1983

180.4

رقم

Defects

Manufacturer

A

B

C

D

E

F

G

H

I

J

K

L

Remarks :

Test specimen is carried out in accordance with BS 1881 Part 116 in the specified condition for test specimens and in the specified condition for laboratory test specimens

Note : T indicates tensile cracking













Specimen : Specified Loading Rate Range = 4.24N/s to 9.84N/s or (0.44N/s)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER
Arshad Hussain	Abdul Aziz	AMR ATIF
Arshad Hussain	Abdul Aziz	

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND BS 1881, 8728:1991

PROJECT	مشروع المطار السريع	STATION	
Customer	EGY CONTRAC	Concrete Content Type	100 KG - GPC
STATION	4 500+438.5 - 500+712.5 L-D B 1		
DATE OF CASTING	23-May-2024	DESIGN STRENGTH	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF CUBES MADE	6
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	TYPE OF CURING	Sub in water

n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm)	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	30-May-24	7	150	7069	2.34	684.8	273.6	281.8
2			150	7821	2.51	681.8	269.5	
3			150	8740	2.41	642.8	259.8	

MODER OF FAILURE AS PER BS 1881 - Part 116:1983	116.4	النسبة		
<div style="display: flex; justify-content: space-between;"> Satisfactory Unsatisfactory </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  A </div> <div style="text-align: center;">  B </div> <div style="text-align: center;">  C </div> <div style="text-align: center;">  D </div> <div style="text-align: center;">  E </div> <div style="text-align: center;">  F </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  G </div> <div style="text-align: center;">  H </div> <div style="text-align: center;">  I </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 10px;"> <div style="text-align: center;">  J </div> <div style="text-align: center;">  K </div> <div style="text-align: center;">  L </div> </div>			Remarks : Specified Loading Rate Range = 4.5kN/s to 6.0 kN/s or (5.5kN/s)	
COMPANY ENGINEER	CONSULTANT ENGINEER	QC MANAGER		
Amr Atef	Amr Atef	Amr Atef		
Amr Atef	Amr Atef	Amr Atef		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 116:1983 AND 6897:1988, 6726:1991

PROJECT	مشروع الطرق السريع		STATION					
Customer	EGY CONTRAC		Concrete Control Type	318 KG - OPC				
STATION	at 580+618.5 - 580+723.5 L-R R-1							
DATE OF CASTING	13-May-2024		POURED STRENGTH	250 Kg/cm ²				
POURED QUANTITY		m ³	NO. OF CUBES MADE	6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm	TYPE OF CURING	Sub in water				
S. OF test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	16-May-24	7	150	7852	2.55	623.0	281.2	289.2
2			150	7921	2.58	618.0	280.0	
3			150	7906	2.54	675.0	265.8	

MODES OF FAILURE AS PER BS 1881 - Part 116: 1983		115.7	القيمة
Satisfactory	Unsatisfactory		
Remarks :			
Results determined & recorded as in accordance with BS			
Test Part 116 is the as received condition for most specimens are			
in the as received condition for laboratory conditions			
Note : T indicates tensile cracking			
Remarks : Specified Loading Rate Range = 0.5MPa/s to 0.8 MPa/s or (0.5MPa/s)			
COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C. MANAGER	



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
 Test Standard BS 1881 - Part 118: PROXIMED 6097:1989, 6710:1991

PROJECT	مشاريع الطرق السريع	STATION	
Customer	EGY CONTRAC	Concrete Content/Type	110 NG - OPC
STATION	at 500+00.5 - 500+715.2 L-D R.I		
DATE OF CASTING	13-May-2024	Test area (mm ²)	250 Kg/cm ²
POURED QUANTITY	m ³	NO. OF TESTS MADE	8
CONCRETE SLUMP	Cm		
TARGET SLUMP	Cm	Test in (water)	Sub in water

S. Of test	Date of Test	Age of Test (Days)	Average Dimensions (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength Kg/cm ²	Average kg/cm ²
1	20-Jun-24	28	150	8175	1.42	938.8	418.4	400.7
2			150	7995	1.36	951.8	430.8	
3			150	7945	1.36	971.8	440.8	

MODES OF FAILURE AS FOR BS 1881: PART 118: 1991		172.3	القيمة
Satisfactory	Unsatisfactory		
Remarks :			
Present measurements is carried out in accordance with BS 1881: Part 118 in the specified conditions for test specimens and to be submitted conditions for laboratory control acceptance			
Note : T indicates tensile strength			
Remarks : Specified Loading Rate Range = 4.32kN/s to 16.6kN/s or (0.8kN/s)			
TIMPANY ENGINEER	CONSULTANT ENGINEER	Q.MANAGER	
Mohamed Elmaghrabi	Ahmed Adel		
Mohamed Elmaghrabi	Ahmed Adel		



DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 6897:1989, 6720:1991

PROJECT		مشاريع الطرق السريع		STATION				
Customer		EGY CONTRAC		Cement Content Type 310 KG - OPC				
STATION								
DATE OF CASTING		23-May-2024		RECEIVED STRENGTH : 250 kg/cm ²				
POURED QUANTITY		m ³		NO. OF CUBES MADE : 6				
CONCRETE SLUMP		Cm						
TARGET SLUMP		Cm		TYPE OF CURING : Sub in water				
n. Of test	Date of Test	Age of Test (Days)	Average Dimension (mm) L	Weight (g)	Density (kg/m ³)	Failure Load (kN)	Comp. Strength kg/cm ²	Average kg/cm ²
1	26-Jun-24	28	150	8198	1.43	924.0	416.6	412.1
2			150	8198	1.42	950.0	430.4	
3			150	8175	1.45	923.0	410.1	

MODEX OF FAILURE AS PER BS 1881 - Part 116: 1983

168.9 مئلي

Satisfactory **Unsatisfactory**

A B C

Remarks :

Results (compressive strength) are in accordance with BS 1881: Part 116 in the as received condition for test specimens and in the as received condition for laboratory tested specimens

NOTE : T indicates tensile strength

Remarks : Specified Loading Rate Range = 4.5MPH to 6.0 MPH or (0.2MPH)

COMPANY ENGINEER	CONSULTANT ENGINEER	Q.C MANAGER
Wishwan Elsay	And Ali	AMR ATIF
Wishwan Elsay	And Ali	



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1982

DATE : 15/07/2024
CLIENT : EGY Contrag
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : منارة القطار السريع
Station Side : Borew / Single / Right Side

Sampling Date	06-07-2024						
Testing Date	13-07-2024						
At Days	7 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	250 kg/cm ²						
Type of Cement	OPC 310 kg						
ELEMENT No.	500-100 - 500-250						
Sample No.	1	2	3				
Weight	8079	8145	8087				
Load (KN)	766	682	767				
Comp. Strength (kg/cm ²)	247	309	348				
Average (kg/cm ²)	304.8						
Percentage (%)	121.9%						
Overall Average (kg/cm ²)	304.8						
Overall Percentage (%)	121.9%						

Remarks : Specified Loading Rate Range = 0.5KN/s to 0.8KN/s or 0.8KN/s

QUALITY CONTROL ENGINEER
Eng. Hendy Mohamed Elhassan

[Signature]
13-07-2024

[Signature]

Consultant Engineer

[Signature]

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 119:1990

DATE: 03/08/2024
CLIENT: EGY Contract
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE: *محور القطار السريع*
Station Side: Beam1 /Single / Right Side

Sampling Date	06/07/2024						
Testing Date	03/08/2024						
At Days	28 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	250 Kg/cm ²						
Type of Cement	OPC -310 kg						
ELEMENT No.	808+185 - 808+230						
Sample No.	1	2	3				
Weight	8194	8105	8046				
Load (KN)	831	838	879				
Comp. Strength (Kg/cm ²)	376	380	398				
Average (Kg/cm ²)	384.7						
Percentage (%)	153.9%						
Overall Average (Kg/cm ²)	384.7						
Overall Percentage (%)	153.9%						

Remarks : Specified Loading Rate Range = 4.0KNS to 5.0 KNS or (5.0KNS)

QUALITY CONTROL ENGINEER
ENG. Hamdy Ahmed Ghannam

Hamdy (2024)

Consultant Engineer

Ahmed Ali

شركة قنطرة السويس
وحدات مبيعات
إدارة الجودة



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983

DATE : 14/07/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : سول القطار السريع
Station Side : Beam 1 / Single / Right Side

Station Side			Bench / Sample / Height / Date						
Sampling Date	07/07/2024								
Testing Date	14/07/2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	250 Kg/cm ²								
Type of Cement	OPC -310 kg								
ELEMENT No.	500+233 - 500+350			500+233 - 500+350					
Sample No.	1	2	3	4	5	6			
Weight	8126	8108	8168	8248	8108	8168			
Load (KN)	582	579	663	682	544	590			
Comp. Strength (Kg/cm ²)	264	260	300	295	246	267			
Average (Kg/cm ²)	274.8			268.7					
Percentage (%)	107.9%			107.9%					
Overall Average (Kg/cm ²)	271.3								
Overall Percentage (%)	108.9%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Hossny Ahmed Ghannem

Hossny Ghannem

شركة كونكريت
و ليدى ميكني
إدارة الجودة

Consultant Engineer

Ahmed Ali

for - 10/07/24

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

Test Standard BS 1881 - Part 116:1982

DATE : 04/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

04/08/2024

EGY Contract

SYSTRA

ELECTRIC EXPRESS TRAIN

محور القطار السريع

Barri / Single / Right Side

Sampling Date	07/07/2024								
Testing Date	04/08/2024								
At Days	28 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	250 Kg/cm ²								
Type of Cement	OPC 310 kg								
ELEMENT No.	508+233 - 508+250 SR			508+233 - 508+250 SR					
Sample No.	1	2	3	4	5	6			
Weight	8113	8288	8153	8126	8178	8151			
Load (KN)	629	682	748	753	718	772			
Comp. Strength (Kg/cm ²)	289	373	328	341	325	381			
Average (Kg/cm ²)	300.3			329.3					
Percentage (%)	126.1%			125.7%					
Overall Average (Kg/cm ²)	319.7								
Overall Percentage (%)	127.9%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (0.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Ramdy Ahmed Ghannem

Consultant Engineer

[Signature]
مدير قسم مراقبة الجودة
في إدارة سويديس
إدارة المشروع

[Signature]

[Signature]

**CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P**

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 15/07/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

Station Name	Secret / Double / Single / High / Low								
Sampling Date	06/07/2024								
Testing Date	15/07/2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	C20 (kg/cm ²)								
Type of Cement	CEM - 310 kg								
E.L.E. No. & I. No.	500-182 - 500-225 D R			500-257 - 500-256 S R					
Sample No.	1	2	3	4	5	6			
Weight	7918	8004	8104	8056	7937	7843			
Load (kN)	823	807	807	589	656	648			
Comp. Strength (kg/cm ²)	107	107	106	76	87	86			
Average (kg/cm ²)	106.3			84.4					
Percentage (%)	103.7%			103.9%					
Overall Average (kg/cm ²)	94.4								
Overall Percentage (%)	100.0%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (0.8kN/s)

QUALITY CONTROL ENGINEER
ENG. Hany Aly Mohamed

شركة مصر
مهندسين
و فنيين
الاساسية

Handwritten signature

Consultant Engineer

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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS (EN) - Part 116 (198)

DATE : 05/06/2024
CLIENT : EOY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

Sampling Date	05/06/2024					
Testing Date	05/06/2024					
At Days	28 days					
Shape & Dimension Of Spec.	Cube 15x15x15 cm					
Concrete Class	250 Kg/cm ²					
Type of Cement	CPC -310 kg					
ELEMENT No.	500-182 - 500-177 DR		500-163 - 500-156 SR			
Sample No.	1	2	3	4	5	6
Weight	8874	8126	8153	7938	8045	8045
Load (KN)	409	389	408	409	462	339
Comp. Strength (Kg/cm ²)	317	321	290	308	300	233
Average (Kg/cm ²)	309.2		314.2			
Percentage (%)	123.7%		125.7%			
Overall Average (Kg/cm ²)			311.7			
Overall Percentage (%)			124.7%			

Remarks : Specified Loading Rate Range = 4.0kN/s to 9.0 kN/s or (4.0kN/s)

QUALITY CONTROL ENGINEER
ENG. Hamdy Ahmed Ghannem

شركة جوتو
إحدى
أقسام الجودة

Hamdy Ghannem

Consultant Engineer

Abd Al



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC S.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983

DATE: 16/07/2024
CLIENT: SOY Contract
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE:
Station Side

سول القطار السريع
Barret / Doublet Right Side

Sampling Date	06/07/2024								
Testing Date	16/07/2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	150 Kg/cm ²								
Type of Cement	OPC - 310 kg								
ELEMENT No.	300+320 - 300+350 D 8								
Sample No.	1	2	3						
Weight	7512	7506	7500						
Load (KN)	700	700	620						
Comp. Strength (Kg/cm ²)	318	305	284						
Average (Kg/cm ²)	312.4								
Percentage (%)	125.0%								
Overall Average (Kg/cm ²)	312.4								
Overall Percentage (%)	125.0%								

Remarks : Specified Loading Rate Range = 4.0KN/S to 7.0KN/S or (0.05KN/S)

QUALITY CONTROL ENGINEER
END. Hamed Ahmed Ghannam

شركة سويفت
ريدي ميكن
ادارة الجودة

hamed-ghannam

Consultant Engineer

Amr Adel

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1992

DATE: 04/08/2024
CLIENT: EGY Contrac
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE:
Station Side

Sampling Date	04/08/2024						
Testing Date	04/08/2024						
At Days	28 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	250 Kg/cm ²						
Type of Cement	OPC - 110 kg						
ELEMENT No.	S08+324 - S08+323 D.R.						
Sample No.	1	2	3				
Weight	1962	1987	1998				
Load (kN)	824	805	785				
Comp. Strength (Kg/cm ²)	318	345	349				
Average (Kg/cm ²)	302.4						
Percentage (%)	141.8%						
Overall Average (Kg/cm ²)	302.4						
Overall Percentage (%)	141.8%						

Remarks: Specified Loading Rate Range = 2.5kN/s to 5.0 kN/s or (0.8kN/s)

QUALITY CONTROL ENGINEER
ENG. Hamdy Ahmed Ghannem

تمت الاختبار طبق المواصفة
و تم إصدار التقرير
إدارة الجودة

Consultant Engineer
Abd Saleh

Abd Saleh

172

76



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTEMENT
NORTH COAST SECTOR
SODIC S.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983

DATE : 21/07/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : *محور القطار السريع*
Station Side : Barn 1 / Single / Right Side

Sampling Date	14/07/2024								
Testing Date	21/07/2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	250 Kg/cm ²								
Type of Cement	OPC -310 kg								
ELEMENT No.	500-350 - 500-440 SR			500-350 - 500-440 SR					
Sample No.	1	2	3						
Weight	8045	8054	8063	8177	8188	8192			
Load (KN)	871	897	930	942	970	986			
Comp. Strength (Kg/cm ²)	108	110	114	114	108	119			
Average (Kg/cm ²)	108.5			108.3					
Percentage (%)	109.8%			113.7%					
Overall Average (Kg/cm ²)	108.4								
Overall Percentage (%)	109.8%								

Remarks : Specified Loading Rate Range = 0.5KN/s to 5.0 KN/s or (0.05N/s²)

QUALITY CONTROL ENGINEER
ENG. Hamedy Ahmed Ghannem

*شركة هندسة وهندسة
وهندسة
إدارة الجودة*

مهندس جودة

Consultant Engineer

And Ali



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 11/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : جسر القطار السريع
Station Side : Barret / Single / Right Side

Sampling Date	11/07/2024								
Testing Date	11/08/2024								
Age Days	28 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	250 kg/cm ²								
Type of Cement	OPC - 310 kg								
ELEMENT No.	500+370 - 500+400.50			500+370 - 500+400.50					
Sample No.	1	2	3	4	5	6			
Weight	8104	8200	8001	8040	8057	8000			
Load (KN)	677	687	707	667	640	711			
Comp. Strength (kg/cm ²)	307	298	325	302	298	322			
Average (kg/cm ²)	307.7			304.9					
Percentage (%)	123.8%			121.9%					
Overall Average (kg/cm ²)	307.3								
Overall Percentage (%)	123.8%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (4.0kN/s)

QUALITY CONTROL ENGINEER
ENG. Hamedy Ahmed Ghannem

شركة القوالب الجاهزة
وإمداد الخرسانة
إدارة الجودة

Michael Sidi

Consultant Engineer

Amr A. A.

CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116/193

DATE: 22/07/2024
CLIENT: BOY Constrac
CONSULTANT: SYETRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE:
Station Side
Borel / Double / Single / Right Side

Station Side			Barrel /Double /Single / Right Side							
Sampling Date	18/05/2024									
Testing Date	22/07/2024									
At Days	7 days									
Shape & Dimension Of Spec.	Cube 15x15x15 cm									
Concrete Class	250 Kg/cm ²									
Type of Cement	OPC -310 kg									
ELEMENT No.	S08+256 - S08+413 048			S08+447 - S08+476 58						
Sample No.	1	2	3							
Weight	8092	8028	8111	7908	7848	7908				
Load (KN)	924	905	938	984	999	943				
Comp. Strength (Kg/cm ²)	117	118	118	128	128	118				
Average (Kg/cm ²)	117.6			127.9						
Percentage (%)	94.8%			99.2%						
Overall Average (Kg/cm ²)	122.3									
Overall Percentage (%)	96.9%									

Remarks: Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (5.0kN/s)

QUALITY CONTROL ENGINEER
ING. Hamdy Ahmed Ghannem

شركة كيمو تكتريك
للمواد والبناء
إدارة الجودة

Hamdy Ghannem

Consultant Engineer

Ahmed Ali

178 / 179



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTION
SODIC S.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard (BS 1881 - Part 116:1993)

DATE: 12/08/2024
CLIENT: EGY Concrete
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE: جدار القطار الكهربائي
Station Side: Barret / Double / Single / Right Side

Sampling Date	Barrel / Double / Single / Right Side								
Testing Date	15/07/2024								
At Days	12/08/2024								
Shape & Dimension Of Spec.	28 days								
Concrete Class	Cube 15x15x15 cm								
Type of Cement	250 Kg/cm ²								
ELEMENT No.	OPC - 310 kg								
Sample No.	508-156 - 509-443 008			508-445 - 509-474 508					
Weight	1	2	3	4	5	6			
Load (N)	7864	7805	7807	7973	8268	8118			
Comp. Strength (Kg/cm ²)	688	668	734	653	567	630			
Average (Kg/cm ²)	318	299	335	296	267	288			
Percentage (%)	103.4			100.3					
Overall Average (Kg/cm ²)	101.4%			101.1%					
Overall Percentage (%)	109.1%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.8 kN/s or (0.8kN/s)

QUALITY CONTROL ENGINEER
Hany Ahmed Mohamed

Consultant Engineer
Ahmed Adel

شركة كوكا كولا
و يدي ميكن
ادارة الجودة

hesham Elmaghrabi



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 126:1983

DATE : 15/07/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : جسر الطريق السريع
Station Side : Beam 1 / Double / Right Side

Sampling Date	15/07/2024						
Testing Date	15/07/2024						
At Days	7 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	250 Kg/cm ²						
Type of Cement	OPC - 310 kg						
ELEMENT No.	505-446 - 505-473 DR						
Sample No.	1	2	3				
Weight	7802	7797	7858				
Load (kN)	498	519	584				
Comp. Strength (Kg/cm ²)	118	138	128				
Average (Kg/cm ²)	128.7						
Percentage (%)	91.9%						
Overall Average (Kg/cm ²)	128.7						
Overall Percentage (%)	91.9 %						

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (4.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Ramiy Ahmed Ghannem

Consultant Engineer

Ahmed Adel

Signature

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:2002

DATE : 13/08/2024
CLIENT : EGY Contrain
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : منارة القطار السريع
Station Side : Barret / Double / Right Side

Sampling Date	13/08/2024						
Testing Date	13/08/2024						
At Days	28 Days						
Shape & Dimensions Of Spec.	Cube 150x150x150 mm						
Concrete Class	100 kg/cm ²						
Type of Cement	OPC 310 kg						
ELEMENT No.	300+400 - 300+413 DM						
Sample No.	1	2	3				
Weight	7885	7875	7818				
Load (N/s)	431	375	416				
Comp. Strength (kg/cm ²)	245	248	279				
Average (kg/cm ²)	278.1						
Percentage (%)	111.3%						
Overall Average (kg/cm ²)	278.1						
Overall Percentage (%)	111.3%						

Remarks : Specified Loading Rate Range = 4.0N/s to 6.0 N/s or (0.06N/s)

QUALITY CONTROL ENGINEER
Eng. Hamdy Ahmed Elwan

شركة قنو قنار
مهندسين
مصريين

Consultant Engineer

Ahmed Abdel

مهندس



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SOHAG B.P.

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS EN12390-1:2019

DATE : 26/07/2024
CLIENT : EGY Control
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : منى القطار السريع
Station Side : Barret / (Single / Right Side)

Sampling Date	21-07-2024								
Testing Date	26-07-2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 150x150x150 mm								
Concrete Class	C20 (kg/cm ²)								
Type of Cement	OPC 42.5 kg								
ELEMENT No.	500-470 - 500-500 500			500-470 - 500-500 500					
Sample No.	1	2	3	4	5	6			
Weight	6154	6146	6171	6151	6117	6176			
Load (kN)	406	425	760	734	898	888			
Comp. Strength (kg/cm ²)	103	138	252	121	171	173			
Average (kg/cm ²)	161.2			161.4					
Percentage (%)	130.8%			134.5%					
Overall Average (kg/cm ²)	276.6								
Overall Percentage (%)	138.3%								

Remarks : Specified Loading Rate Range = 0.5kN/s to 0.8kN/s or 10-16kN/s

QUALITY CONTROL ENGINEER
ENG. Hamedy Ahmed Ghannam

تم فحصه
و قد وجدته
مطابق المواصفات
2024/7/26

2024/7/26/2024

Consultant Engineer

Amr Abdelhadi

DETERMINATION DE COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 18/08/2024
CLIENT : EGY Concret
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : جدار القطار السريع
Station Side : Barrota (Single / Right Side)

Specimen Name				Barren Slag / Right Side			
Sampling Date	21/07/2024						
Testing Date	18/08/2024						
At Days	28 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	C20 (kg/cm ²)						
Type of Cement	OPC - 310 kg						
ELEMENT No.	000-479 - 000-500 100			000-479 - 000-500 100			
Sample No.	1	2	3	4	5	6	
Weight	8192	8198	8136	8283	8178	8277	
Load (KN)	871	927	867	825	748	887	
Comp. Strength (kg/cm ²)	105	113	106	100	91	107	
Average (kg/cm ²)	108.0			100.0			
Percentage (%)	103.0%			95.2%			
Overall Average (kg/cm ²)	101.6						
Overall Percentage (%)	101.0%						

Remarks : Specified Loading Rate Range - 0.5KN/s to 0.8KN/s or (0.6KN/s)

QUALITY CONTROL ENGINEER
Eng. Hany Aly Hassan

تم فحصه
و وجدته مطابق
2024/08/18

تم فحصه و وجدته مطابق

Consultant Engineer

Amr Aly



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC SLP

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE: 29/07/2024
CLIENT: EGY Confinco
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE: جسر القطار السريع
Station Side: Bypass / Double Right Side

Sampling Date	21/07/2024						
Testing Date	29/07/2024						
At Days	7 days						
Shape & Dimension Of Spec.	Cube 150x150x150 mm						
Concrete Class	C25 (kg/cm ²)						
Type of Cement	OPC - 325 kg						
ELEMENT No.	S01-076 - 389-021 08						
Sample No.	1	2	3				
Weight	5167	5266	5366				
Load (KN)	668	688	667				
Comp. strength (kg/cm ²)	129	130	124				
Average (kg/cm ²)	127.3						
Percentage (%)	122.9%						
Overall Average (kg/cm ²)	127.3						
Overall Percentage (%)	122.9%						

Remarks: Specified Loading Rate Range = 0.3KN/S to 0.6 KN/S or (0.3KN/S)

QUALITY CONTROL ENGINEER
ENG. Hany Ahmed Ghannem

شركة سوترا
إدارة الجودة

مختبر سوترا

Consultant Engineer

Abdul Adol

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 18/08/2024
CLIENT : EGY Control
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : محطة قطار السويج
Station Side : Bermet / Double Right Side

Sampling Date	18/08/2024						
Testing Date	18/08/2024						
At Days	28 days						
Shape & Dimension Of Spec.	Cube 15x15x15 cm						
Concrete Class	250 Kg/cm ²						
Type of Cement	CPC - 310 kg						
ELEMENT No.	S08+47% - S08+521.000						
Sample No.	1	2	3				
Weight	8173	8195	8158				
Load (KN)	493	499	787				
Comp. Strength (Kg/cm ²)	314	317	320				
Average (Kg/cm ²)	316.9						
Percentage (%)	126.8%						
Overall Average (Kg/cm ²)	316.9						
Overall Percentage (%)	126.8%						

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s to 5.5kN/s

QUALITY CONTROL ENGINEER
ENG. Hamdy Ahmed Ghannem



مهندس جودة
و مراقبة
ادارة الجودة

مهندس جودة

Consultant Engineer





CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC S.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 124:1983

DATE: 26/07/2024
CLIENT: EGY Contract
CONSULTANT: SYSTRA
PROJECT: ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE: سور القطار السريع
Station Side: Borel (Single Right Side)

Sampling Date	25-07/2024								
Testing Date	26-07/2024								
At Days	7 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	250 kg/cm ²								
Type of Cement	OPC - 310 kg								
ELEMENT No.	200-562 - 200-670 SR			200-562 - 200-670 SR					
Sample No.	1	2	3	4	5	6			
Weight	8133	8168	8278	8081	8082	8074			
Load (kN)	568	608	550	598	670	652			
Comp. Strength (kg/cm ²)	250	274	240	270	304	295			
Average (kg/cm ²)	258.3			289.5					
Percentage (%)	104.3%			115.8%					
Overall Average (kg/cm ²)	274.9								
Overall Percentage (%)	109.8%								

Remarks: Specified Loading Rate Range = 0.5kN/s to 1.0kN/s or (0.5N/s to 1.0N/s)

QUALITY CONTROL ENGINEER
ENG. Hossam Ahmed Ghannem

شور القطار السريع
و يندى
ادارة الجودة

مستند

Consultant Engineer

Amr Ali



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC BLP

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 20/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side
عنبر 1 / Single Right Side

Station Side				Event 1 /Single/ Right Side								
Sampling Date				23/07/2024								
Testing Date				26/08/2024								
At Days				28 days								
Shape & Dimension Of Spec.				Cube 15x15x15 cm								
Concrete Class				250 Kg/cm ²								
Type of Cement				OPC -310 kg								
ELEMENT No.				500-563 - 500-650 N01			500-563 - 500-650 N01					
Sample No.				1	2	3	4	5	6			
Weight				8164	8136	8055	8049	8077	8029			
Load (kN)				638	734	678	677	696	787			
Comp. Strength (Kg/cm ²)				289	333	307	307	319	329			
Average (Kg/cm ²)				309.6			314.1					
Percentage (%)				123.8%			125.6%					
Overall Average (Kg/cm ²)				311.8								
Overall Percentage (%)				124.7%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (4.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Hendy Ahmed Ghannem

muhammad muhammad

Consultant Engineer

Ahmed Alfi

شركة كوكو
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2024



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1992

DATE : 31/07/2024
CLIENT : EGY Control
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

31/07/2024
EGY Control
SYSTRA
ELECTRIC EXPRESS TRAIN
محطة القطار السريع
Barrage (Double) Right Side

Station Side				Beam 1 (Disaster Right Side)						
Sampling Date	24/07/2024									
Testing Date	21/07/2024									
At Days	7 days									
Shape & Dimension Of Spec.	Cube 15x15x15 cm									
Concrete Class	25R kg/cm ²									
Type of Cement	OPC -31R kg									
ELEMENT No.	500+024 - 500+025 DR			500+026 - 500+027 DR						
Sample No.	1	2	3	4	5	6				
Weight	8124	8028	8198	8049	8060	8064				
Load (KN)	522	554	524	528	609	549				
Comp. Strength (kg/cm ²)	126	131	127	128	176	149				
Average (kg/cm ²)	128.0			154.6						
Percentage (%)	96.0%			100.0%						
Overall Average (kg/cm ²)	146.3									
Overall Percentage (%)	99.2%									

Remarks : Specified Loading Rate Range = 0.5kN/s to 1.0 kN/s or (0.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Hany Ahmed Ghannem

Consultant Engineer

شركة القمار
و إمداد
إدارة الجودة

مختبر الخرسانة

A hany Ahmed

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
(In Standard IS: 1001 - Part II: 1999)

DATE :
CLIENT :
CONSULTANT :
PROJECT :
STRUCTURE TYPE :
Station Side

21/06/2024
EGY Contract
SYSTRA
ELECTRIC EXPRESS TRAIN
محطة القطار السريع
Barrett Double Right Side

Left Hand Side			Barren? (Doublet Right Side)						
Sampling Date	24/07/2024								
Testing Date	21/06/2024								
At Days	28 days								
Shape & Dimension Of Spec.	Cube (15x15x15)cm								
Concrete Class	250 N/mm ²								
Type of Cement	40PC - 330 kg								
FLI-MIX No.	100-524 - 100-525 200			100-526 - 100-527 200					
Sample No.	1	2	3	4	5	6			
Weight	8025	8014	8001	8028	8015	8120			
Load (kN)	714	670	630	687	658	674			
Comp. Strength (kg/cm ²)	223	208	200	221	218	208			
Average (kg/cm ²)	209.3			218.8					
Percentage (%)	121.4%			115.9%					
Overall Average (kg/cm ²)	209.9								
Overall Percentage (%)	118.9%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (0.05kN/s)

QUALITY CONTROL ENGINEER
ENG. Hany Ahmed Ghannem

[Signature]
مهندس هاني أحمد غنيم
إدارة الجودة

[Signature]

Consultant Engineer

[Signature]



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1992

DATE : 03/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : سول القطار السريع
Station Side : Bern1 /Double , Single Right Side

Station Name				Bent 1 Abutment - Single Right Side				
Sampling Date	27/07/2024							
Testing Date	03/08/2024							
At Days	7 days							
Shape & Dimension Of Spec.	Cube 15x15x15 cm							
Concrete Class	25R Kg/cm ²							
Type of Cement	OPC -310 kg							
ELEMENT No.	500+653 - 500+704 NR			500+646 - 500+652 DR				
Sample No.	1	2	3	4	5	6		
Weight	8128	8099	8126	8012	8017	8148		
Load (KN)	555	554	594	643	625	606		
Comp. Strength (Kg/cm ²)	165	142	149	191	283	275		
Average (Kg/cm ²)	256.7			283.6				
Percentage (%)	100.5%			113.3%				
Overall Average (Kg/cm ²)	276.8							
Overall Percentage (%)	100.3%							

Remarks : Specified Loading Rate Range = 4.0kN/s to 5.0 kN/s or (6.0kN/s)

QUALITY CONTROL ENGINEER
ENG. Hamdy Ahmed Ghannem

شركة كوكا كولا
و يدي ميكنس
ادارة الجودة

Youssef Mohamed

Consultant Engineer

Ahmed Adel



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 24/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side :
Barrn1 (Double , Single/ Right Side

Station 5024				Barren 1000m, Single Ridge road					
Sampling Date	17/07/2024								
Testing Date	14/08/2024								
At Days	28 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	180 Kg/cm ²								
Type of Cement	OPC -310 kg								
ELEMENT No.	508+652 - 508+704 SR			508+644 - 508+652 DR					
Sample No.	1	2	3	4	5	6			
Weight	8030	8009	8046	8177	8112	8153			
Load (N)	691	691	685	698	729	766			
Comp. Strength (Kg/cm ²)	277	313	318	313	336	350			
Average (Kg/cm ²)	298.6			328.9					
Percentage (%)	128.0%			128.6%					
Overall Average (Kg/cm ²)	318.6								
Overall Percentage (%)	124.2%								

Remarks : Specified Loading Rate Range = 4.0%/N/S to 5.0 %/N/S or (5.0%/N/S)

QUALITY CONTROL ENGINEER
ENG. Hamedy Ahmed Ghannem

Consultant Engineer

شركة مصر للمقاولات
و بيدي ميكنيك
ادارة الجودة

مهندس مهندس

A. Hamed A. Ghannem



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
BODIC B/P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

Test Standard IS 1881 - Part 116:1983

DATE : 04/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

محطة القطار السريع
Barn1 (Double, Single) Right Side

Station Side			Form 1 (Double, Single, Split, S-100)								
Sampling Date			28/07/2024								
Testing Date			04/08/2024								
At Days			7 days								
Shape & Dimension Of Spec.			Cube 15x15x15 cm								
Concrete Class			250 Kg/cm ²								
Type of Cement			OPC -310 kg								
ELEMENT No.			508+713 - 508+812 VR			508+642 - 508+701 DR					
Sample No.			1	2	3	4	5	6			
Weight			8158	8281	8144	8180	8284	8145			
Load (KN)			674	669	678	676	677	681			
Comp. Strength (Kg/cm ²)			389	391	394	384	389	372			
Average (Kg/cm ²)			391.8			387.9					
Percentage (%)			108.7%			105.9%					
Overall Average (Kg/cm ²)			389.8								
Overall Percentage (%)			108.3%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (6.8kN/s)

QUALITY CONTROL ENGINEER
ENG. Hamed Ahmed Ghannem

شركة كونكريتو
إحدى مكاتب
إدارة الجودة

Handwritten signature of Hamed Ahmed Ghannem

Consultant Engineer

Handwritten signature of Consultant Engineer



CONCRETO READY MIXED CONCRETE
QUALITY CONTROL DEPARTMENT
NORTH COAST SECTOR
SODIC B.P

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1993

DATE : 15/08/2024
CLIENT : EGY Contrac
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE : حوض القطار السريع
Station Side : Barret /Double , Single/ Right Side

Sampling Date			15/07/2024								
Testing Date			15/08/2024								
At Days			28 days								
Shape & Dimension Of Spec.			Cube 15x15x15 cm								
Concrete Class			250 Kg/cm ²								
Type of Cement			OPC -310 kg								
ELEMENT No.			508+712 -508+812 SR			508+642 - 508+781 SR					
Sample No.			1	2	3	4	5	6			
Weight			8105	8115	8190	8142	8125	8187			
Load (KN)			612	685	729	685	712	721			
Comp. Strength (Kg/cm ²)			277	318	324	310	332	327			
Average (Kg/cm ²)			306.1			321.8					
Percentage (%)			122.4%			129.1%					
Overall Average (Kg/cm ²)			314.2								
Overall Percentage (%)			125.6%								

Remarks : Specified Loading Rate Range = 4.5kN/s to 5.0 kN/s or (5.5kN/s)

QUALITY CONTROL ENGINEER
ENG. Hany Ahmed Shanan

مهندس مراقبة الجودة
د. هاني أحمد شنان
إدارة الجودة

مهندس مراقبة الجودة

Consultant Engineer

Amr Adel

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983

DATE : 05/08/2024
CLIENT : EGY Contract
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side

Station Side		Support / Double , Single Right Side						
Sampling Date	10/07/2024							
Testing Date	05/08/2024							
At Days	7 days							
Shape & Dimension Of Spec.	Cube 15x15x15 cm							
Concrete Class	250 Kg/cm ²							
Type of Cement	OPC -310 kg							
ELEMENT No.	500+704 - 500+707 SR			500+815 - 500+818 SR				
Sample No.	1	2	3	4	5	6		
Weight	8280	8178	8070	8154	8108	8162		
Load (KN)	594	585	549	647	579	597		
Comp. Strength (Kg/cm ²)	247	245	249	253	242	278		
Average (Kg/cm ²)	248.9			276.3				
Percentage (%)	104.4%			108.1%				
Overall Average (Kg/cm ²)	268.1							
Overall Percentage (%)	107.2%							

Remarks : Specified Loading Rate Range = 1.5kN/S to 5.0 kN/S or (0.6kN/S)

QUALITY CONTROL ENGINEER
ENS. Hamed Ahmed Ghannem

مهندس هادي محمد

Consultant Engineer

Amr Adel

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Method BS 1881 - Part 123:1993

DATE : 26/08/2024
CLIENT : EGY Contrag
CONSULTANT : SYSTRA
PROJECT : ELECTRIC EXPRESS TRAIN
STRUCTURE TYPE :
Station Side
Barrel Double , Single Right Side

Left Hand Side			Bore 1 (Inside) , Single Right Side						
Sampling Date	26/07/2024								
Testing Date	26/08/2024								
At Days	28 days								
Shape & Dimension Of Spec.	Cube 15x15x15 cm								
Concrete Class	25R Kg/cm ²								
Type of Cement	OPC - 310 kg								
ELEMENT No.	508+784 - 508+797 DB			508+813 - 508+818 SB					
Sample No.	1	2	3	4	5	6			
Weight	8128	8185	8054	8138	8148	8162			
Load (kN)	677	712	739	655	685	695			
Comp. Strength (Kg/cm ²)	287	323	325	287	318	318			
Average (Kg/cm ²)	311.7			307.7					
Percentage (%)	128.8%			123.1%					
Overall Average (Kg/cm ²)	314.7								
Overall Percentage (%)	125.8%								

Remarks : Specified Loading Rate Range = 0.5kN/s to 5.0 kN/s or (0.5kN/s)

QUALITY CONTROL ENGINEER
ENQ. Hany Mohamed Ghannem

مهندس جودة
هانى محمد
إدارة الجودة

مهندس جودة

Consultant Engineer

Amr Adel