PRECON

FOR CONCRETE AND BLOCK

PRECON

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تم بعون الله تعالى افتتاح قسم الطابوق و الخرسانة بمصنع الإنشاءات المسبقة الصنع (بريكون للخرسانة والطابوق) بتاريخ 1/1/ 2011م بطاقة إنتاجية 25000 طابوقة كل 8 ساعات على مساحة إجمالية 25000 م٢ حيث تمتلك الشركة حوالي 25 خلاطة مع 5 مضخات و عدد 2 مصانع خلطة و تبلغ الطاقه الإنتاجية لكل مصنع ١٢٠ م٣ حيث اننا نوفر جميع أنواع الخرسانة عالية القوة و يمكننا توفير مجموعة متنوعة من أنواع الأسمنت المختلفة بما في ذلك OPC و SRC و Micro Silica كما يمكننا توريد الخرسانة لجميع قطاعات السوق في المنطقة الشرقية يمكننا توريد الخرسانة الجاهزة من 3م٣ إلى 3000 م3 . وقد تم اختيار جميع معدات المصنع من أحدث المعدات و الموديلات والتي تستخدم تقنيات التصنيع الحديثة وتم انتقاء أفضل المواد الخام من الأسمنت و الكنكري و الرمل و الماء الحلو حيث تم فحص عينات عشوائية من الإنتاج من جميع الأصناف في مختبرات معمدة لدى ارامكو السعودية وشركة سابك و الهيئة الملكية وقد تم اجتياز جميع إختبارات الفحص بنتائج عالية ومطابقة للمواصفات العالمية القياسية حسب الكود الأمريكي (ASTM) ، ولقد حاز المصنع مؤخرا على شهادة الأيزو (ISO 9001) لتطبيق معايير الجودة العالمية .

By the grace of Allah, the brick and concrete department was opened at the prefabricated construction factory (Brecon Concrete and Bricks) On 1/1/2011 with a production capacity of 25,000 bricks every 8 hours on a total area of 25,000 m2 The company owns about 25 mixers with 5 pumps and 2 mixing plants and the production capacity of each plant is 120 m3 As we provide all types of high-strength concrete and we can provide a variety of different types of cement including OPC, SRC and Micro Silica. We can also supply concrete to all market sectors in the Eastern Province We can supply ready-mix concrete from 3 m3 to 3000 m3. All the factory equipment was selected from the latest equipment and models that use modern manufacturing techniques. The best raw materials were selected from cement, aggregate, sand and fresh water. Random samples of production from all types were examined in laboratories accredited by Saudi Aramco, SABIC and the Royal Commission. All inspection tests were passed with high results and conformed to international standard specifications. According to the American code (ASTM), the factory has recently obtained the ISO (9001) certificate for applying international quality standards.


PRECON
FOR CONCRETE AND BLOCK

GENERAL INFORMATION OF THE COMPANY

Name	PRECON FOR CONCRETE AND BLOCK
Commercial Registration	2050041727
Ministerial Decree	Industrial License No: 1203
Address	Dammam, Abu Hadriyah Highway
Mailing Address	P.O Box # 2447, Dammam 31451, Kingdom of Saudi Arabia.
Website Address	www.precon.sa
E-mail	precon@precon.sa
Telephone No	+96613-8377773
Fax No	+96613-8373218

Industrial Liecence

وزارة التجارة
Ministry of Commerce

شهادة تسجيل فرع مؤسسة

٧٠١٣٤٩٨٩٧٢
الرقم: ٢٠٥٠٠٤١٧٢٧
التاريخ: ١٤٢٣/٠٩/١٩ هـ

اسم التاجر: على عبدالله محمد مرعي آل حصان الجنسية : سعودى تاريخ الميلاد : ١٣٧١ هـ
رقم السجل المدني/بطاقة الأحوال : ١٠١٨٢٧٥٩٧٢ تاريخه : ١٣٨٩/٠٤/٢٥ هـ مصدره : خميس مشيط
المركز الرئيسي : الدمام
ص.ب : الرمز البريدي: هاتف :
رقم سجل المركز الرئيسي : ٢٠٥٠٠٠٤٣٤٤
الاسم التجاري للفرع: مصنع الإنشاءات المسبقة الصنع للصناعة
العنوان: الدمام / طريق ابوحدرية مخطط ٣ غرب الاوجام
ص.ب : الرمز البريدي: هاتف :
النشاط : صناعة البلك الأسمنتي المفرغ والآجر، صناعة قواطع وألواح وأطر ومباني جاهزة من الخرسانة سابقة الصنع

رأس المال : ٥٠٠٠٠٠ خمسمائة ألف ريال فقط لا غير
اسم المدير أو الوكيل المفوض : عبدالمجيد بن علي بن عبدالله آل حصان
الجنسية : سعودى تاريخ الميلاد : ١٤٠٤ هـ
رقم السجل المدني - الإقامة : ١٠١٨٢٧٦٠١٢ تاريخه : ١٤١٩/١٠/٣٠ هـ مصدره : الدمام
سلطات المدير
يشهد مكتب السجل التجاري بمدينة الدمام بأنه تم تسجيل هذه الموسسة بسجل مدينة الدمام
وتنتهي صلاحية الشهادة في ١٤٤٦/١٢/١٩ هـ بموجب الإيصال رقم: ٥٩٧٤٥٩١٩ و تاريخ : ١٤٤٢/٠١/١٢ هـ

مدير السجل التجاري: نايف صالح الطاسان
التوقيع:

To Verify the information of this certificate visit http://v.mci.gov.sa يمكنك التحقق من صحة هذة الشهادة بالدخول على

Membership Certificate - شهادة الاشتراك

غـــرفـــة الشرقـيـة
ASHARQIA CHAMBER

الخدمات الالكترونية
E-SERVICES

The Unified Number: 7013498972	الرقم الموحد للمنشأة: 7013498972
Classification : Fourth	الدرجة : الرابعة
Date of Issue : 27/02/2023	تاريخ الاصدار : 07/8/1444
Asharqia Chamber Certifies that :	:تشهد الغرفة التجارية الصناعية بالمنطقة الشرقية بأن
PRECAST STRUCTURES FACTORY	مصنع الانشاءات المسبقة الصنع
Membership No : 84319	رقم الاشتراك : 84319
Registered with Chamber since : 06/05/2007 and	مشتركة في الغرفة منذ : 19/04/1428
the certificate expires on : 15/06/2025	وينتهي سريان هذه الشهادة في : 19/12/1446
,2447 ,الدمام ,31451	,2447 ,الدمام ,31451

غـــرفـــة الشرقـيـة
ASHARQIA CHAMBER

TÜV NORD ISO 9001/27001/22301 TÜV NORD ISO 10002

SF-MEMBD-04 Rev. 10 Issued 01 MAR. 2021

يمكنك التحقق من صحة هذه الشهادة https://www.chamber.org.sa/VerifyCert

Chamber Membership

Industrial Liecence

وزارة الطاقة والصناعة والثروة المعدنية
المملكة العربية السعودية

رؤية VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

ترخيص منشأة صناعية

استثمار وطني

رمز المنشأة	١٥١٢٠٣	تاريخ الترخيص	١٤٤١-٠٤-٠٨	تاريخ القرار	١٤٤١-٠٤-٠٨
نوع القرار	تعديل	رقم القرار	١١	تاريخ الانتهاء	١٤٤٤-٠٤-٠٨

اسم المنشأة الصناعية	مصنع الإنشاءات المسبقة الصنع	هاتف	+٩٦٦٥٩٤٢٥٦٠٣٧
السجل التجاري للمنشأة الصناعية	٢٠٥٠٠٤١٧٢٧	فاكس	
مالك المنشأة	علي بن عبدالله بن محمد آل حصان	موقع المنشأة الصناعية	(N26.494769894500788 ,E49.95705159937563)
رقم الهوية	١٠١٨٢٧٥٩٧٢	المنطقة	المنطقة الشرقية
الجنسية	العربية السعودية	المدينة	الدمام
النشاط الرئيسي	صنع اصناف من الخرسانة والاسمنت والجص / ٢٣٩٥		

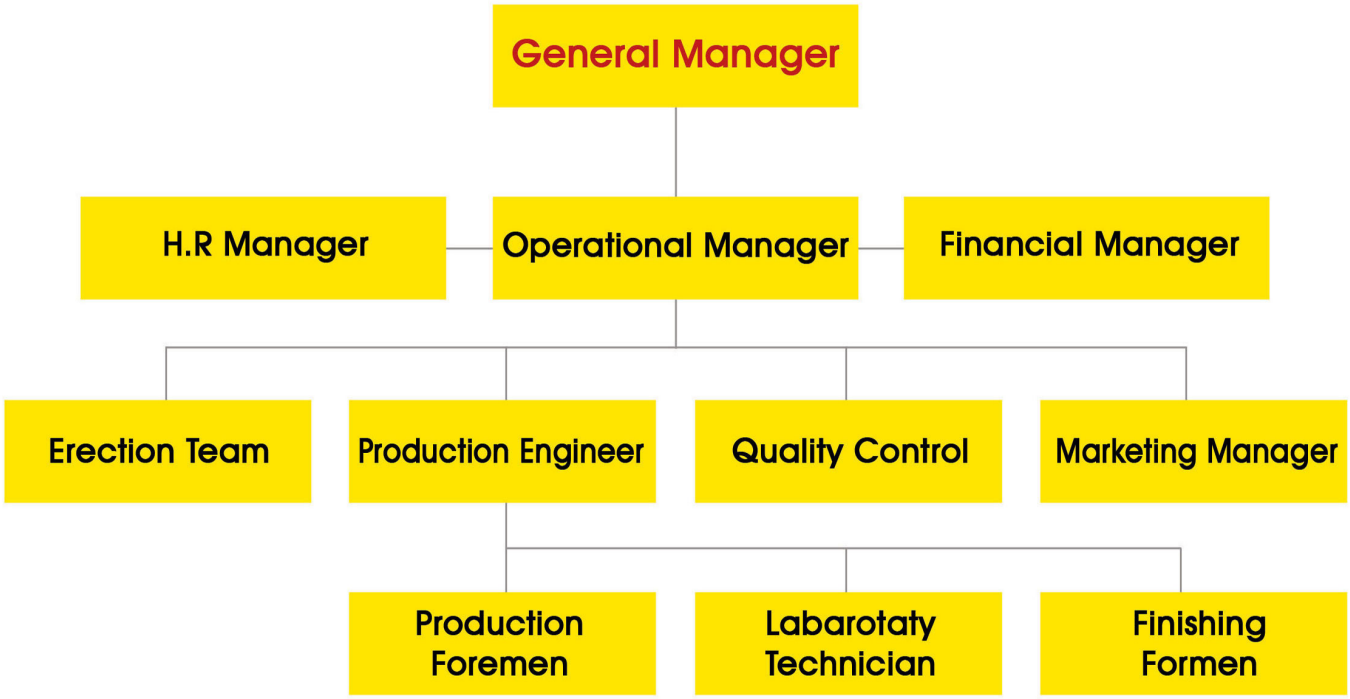
عدد العمالة	٩٠	تسعون فرداً	
حجم الاستثمار	١٥٠٣٦١٤٥.٠٠	خمسة عشر مليون و ستة و ثلاثون ألفا و مائة و خمسة و أربعون ريال	

رمز المنتج	وصف المنتج	النشاط الصناعي	الطاقة الانتاجية	الوحدة
٦٨١٠٩١٠٠	الواح خرسانية مسبقة الصنع	٢٣٩٥٤٠ / صناعة قواطع وألواح وأطر ومباني جاهزة من الخرسانة سابقة الصنع	٩٠٠٠.٠	متر مربع
٦٨١٠٩١٠٠	حوائط داخلية مسبقة الصنع	٢٣٩٥٤٠ / صناعة قواطع وألواح وأطر ومباني جاهزة من الخرسانة سابقة الصنع	١٢٠٠٠.٠	متر مربع
٦٨١٠١١٠٠	طابوق بانواعه	٢٣٩٥١٠ / صناعة البلك الأسمنتي المفرغ والآجر	٢٥٠٠٠٠.٠	وحدة

وزير الصناعة والثروة المعدنية

بندر بن إبراهيم الخريف

PRECON ORGNIZATIONAL CHART



LIST OF PERSONNELS & EMP

S.No	Category	Nos
	General Manager	1
1	Operational Manager	1
2	Administration Deptt:	2
3	Technical Department	12
4	Financial Depattment:	5
5	Public Relations & Marketing	3
	Total	23
1	Specialist Forms Fabricators	5
2	Professional Welders	15
3	Steel Fixers	20
4	Carpenters	6
5	Masons	20
6	Sandblasters	5
7	Precast Erectors	30
8	Plumbers	3
9	Electricians	5
10	Drivers	5
11	Labor	25
12	Batching Plant Operators	3
13	Auto Electricians	2
14	Hydraulic & Diesel Mechanics	5
15	Stressing Foremen	3
	Total	152

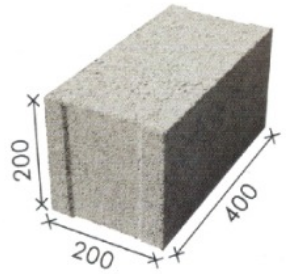
Block products

Solid Blocks

S20(solid Block)

Technical Date

Code	S20
Depth (cm)	S20
Blocks/Bundle	30

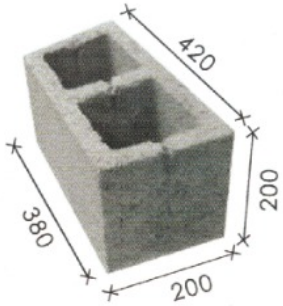


Hourdi Blocks

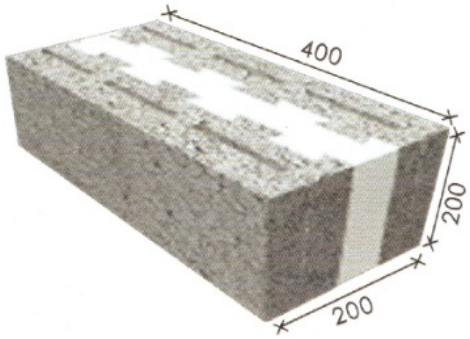
Hourdi 20

Technical Date

Code	S20
Depth (cm)	S20
Blocks/Bundle	30



Insulation Blocks



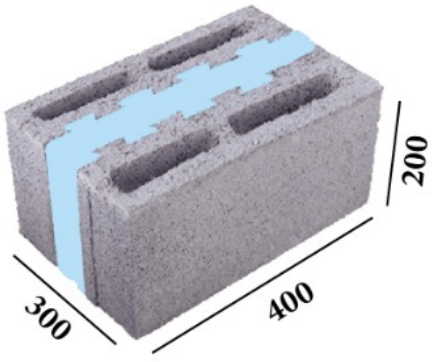
Technical and Physical Date of Insulation

Expnaded Polystyrene = 22-24kg/m
Dimension Stability at 80%= 0.5%
Thermal expansion coefficirnt =0.07mm/mc
Water vapor transmission resistance =150

Technical and Physical Date

Block per m^2	12.5nos.
Wall thickness	20cm
Block height	20cm
Block length	40cm

Insulation Blocks



Heat flow density	q = 10.6 w/m2
Heat storage	Q = 54.5 kcal/m2 oc
Cooling time	h = Qx 1/u=124hours
U-value	U=0.41

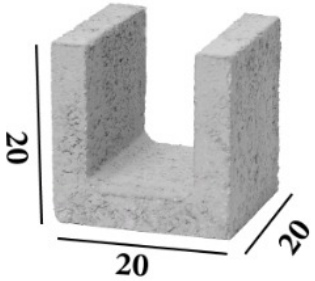
Technical and Physical Date

Block per m^2	12.5nos.
Wall thickness	30cm
Block height	20cm
Block length	40cm

Hollow Block U

Technical and Physical Date

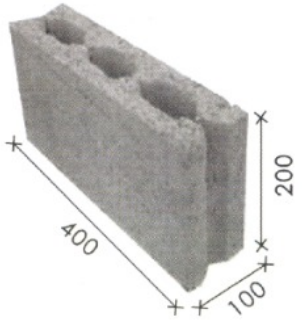
Block per m^2	12.5nos.
Wall thickness	20cm
Block height	20cm
Block length	20cm



Hollow Blocks

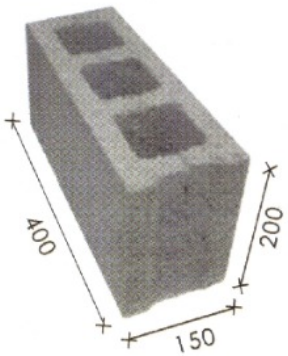
400x200x100mm
Technical Date

Stone	Hollow Block
Thickness of stone -cm	10
Area / Stone -cm²	500
Stones per m²	12.5



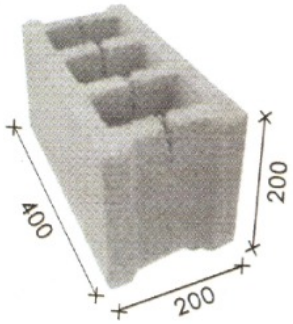
400x200x150mm
Technical Date

Stone	Hollow Block
Thickness of stone -cm	15
Area / Stone -cm²	800
Stones per m²	12.5



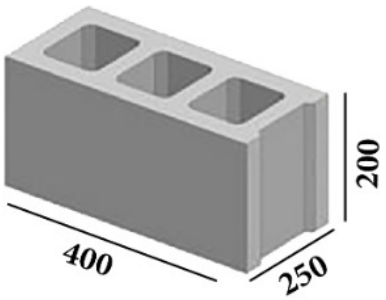
400x200x200mm
Technical Date

Stone	Hollow Block
Thickness of stone -cm	20
Area / Stone -cm²	800
Stones per m²	12.5



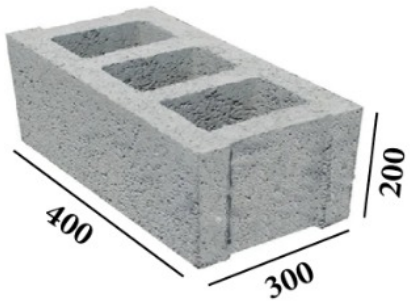
400x200x250mm
Technical Date

Stone	Hollow Block
Thickness of stone -cm	25
Area / Stone -cm²	800
Stones per m²	12.5



400x200x300mm
Technical Date

Stone	Hollow Block
Thickness of stone -cm	30
Area / Stone -cm²	800
Stones per m²	12.5



PRECON READY MIX & BLOCK

Mix Design Report

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1002
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	3000 Psi (C20)	Min. Cement Content/m3:	270 kg	Cement Type:	I&V
W/C. Ratio	0.66	Max. Size of Agg.:	20 mm	Max. Slump:	150±40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	270		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	180		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	560		267.6	Summan
Agg. 10mm (Kg)	2.573	510		151.6	Summan
Sand (Kg)	2.625	790		327.6	Local Dune
Admx-D-10 (L)	1.12	2.7		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2312		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2312	Air Content:	2%	Slump:	140	Temp ©	28
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2340	3	1957.5	13.5	115.4	2892.5
2	2346	3	1870	12.9	114.8	
3						
4	2355	7	2827.5	19.05	159.1	2864.47
5	2350	7	2901.45	20.01	162.2	
6						
7	2346	28	3335	23	224.4	3371
8	2354	28	3407	23.5	209.1	
9						

Prepared By: .....

بريكون للخرسانة والطابوق
مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1007
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	6000 Psi (C40)	Min. Cement Content/m3:	420 kg	Cement Type:	I&V
W/C. Ratio	0.36	Max. Size of Agg.:	20 mm	Max. Slump:	140±40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	420		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	155		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	650		267.6	Summan
Agg. 10mm (Kg)	2.573	410		151.6	Summan
Sand (Kg)	2.625	680		327.6	Local Dune
Admx-D-10 (L)	1.12	4.2		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2319		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2319	Air Content:	2%	Slump:	150	Temp ©	25
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2355	3	3915	27.0	275.4	3988
2	2356	3	4060	28.0	285.6	
3						
4	2359	7	5081	34.9	355.9	5141
5	2360	7	5220	36.0	367.2	
6						
7	2357	28	6946	47.0	488.6	6982
8	2359	28	7018	48.4	493.7	
9						

Prepared By: .....

بريكون للخرسانة والطابوق
مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1006
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	5500 Psi (C38)	Min. Cement Content/m3:	400 kg	Cement Type:	I&V
W/C. Ratio	0.38	Max. Size of Agg.:	20 mm	Max. Slump:	150±40 mm

Ingredients	Sp. Gr. SSD	SSD WT	%Of Agg	Volume/Lt	Source
Cement (Kg)	3.15	400		61.9	Saudi cement
Agg. 20mm (Kg)	2.578	665		267.6	Summan
Agg. 10mm (Kg)	2.573	430		151.6	Summan
Sand (Kg)	2.625	685		327.6	Local Dune
Admx-D-10 (L)	1.12	4		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	Fosam
Free Water (Lt)	1	160		180	Precon R/o Planet
Air Content	%	2		20	
Total		2344		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:2344	Air Content:	2%	Slump:	150	Temp 25
Setting Time (Min):			Final Setting Time(Mine):		

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2340	3	3510.45	24.21	119.22	3467.67
2	2346	3	3424.9	23.62	122.54	
3						
4	2355	7	4421.05	30.49	180.1	
5	2350	7	4608.1	31.78	190.2	4514.52
6						
7	2346	28	5638	38.88	396.39	5645
8	2354	28	5652	38.97	397.37	
9						

Prepared By: .....

بريكون للخرسانة والطابوق
مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1006
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	5000 Psi (C35)	Min. Cement Content/m3:	360 kg	Cement Type:	I&V
W/C. Ratio	0.42	Max. Size of Agg.:	20 mm	Max. Slump:	140±40mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	380		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	160		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	655		267.6	Summan
Agg. 10mm (Kg)	2.573	420		151.6	Summan
Sand (Kg)	2.625	690		327.6	Local Dune
Admx-D-10 (L)	1.12	3.8		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2308		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2308	Air Content:	2%	Slump:	140	Temp ©	26
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2340	3	3416.2	23.56	121.2	3256.7
2	2346	3	3097.2	21.36	133.4	
3						
4	2355	7	4844.45	33.41	170.1	4803.85
5	2350	7	4763.25	32.85	186.2	
6						
7	2346	28	5412.85	37.33	249.4	5388
8	2354	28	5363.55	36.99	265.1	
9						

Prepared By: .....

بريكون للخرسانة والطابوق
مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1005
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	4500 Psi (C30)	Min. Cement Content/m3:	330 kg	Cement Type:	I&V
W/C. Ratio	0.48	Max. Size of Agg.:	20 mm	Max. Slump:	140±40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	340		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	165		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	656		267.6	Summan
Agg. 10mm (Kg)	2.573	426		151.6	Summan
Sand (Kg)	2.625	720		327.6	Local Dune
Admx-D-10 (L)	1.12	3.4		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2310		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2310	Air Content:	2%	Slump:	150	Temp ©	25
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2364	3	3451	23.8	242.8	3473
2	2357	3	3495	24.1	245.8	
3						
4	2362	7	4437	30.6	312.1	4466
5	2365	7	4495	31.0	316.2	
6						
7	2369	28	5510	38.0	387.6	5590
8	2370	28	5670	39.1	399.0	
9						

Prepared By: .....

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MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1004
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	4000 Psi (C28)	Min. Cement Content/m3:	320 kg	Cement Type:	OPC
W/C. Ratio	0.53	Max. Size of Agg.:	20 mm	Max. Slump:	140±40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	320		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	170		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	660		267.6	Summan
Agg. 10mm (Kg)	2.573	450		151.6	Summan
Sand (Kg)	2.625	720		327.6	Local Dune
Admx-D-10 (L)	1.12	3.2		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2323		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2323	Air Content:	2%	Slump:	145	Temp ©	25
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2346	3	2494	17.2	175.4	2436
2	2360	3	2378	16.4	163.3	
3						
4	2366	7	3248	22.4	228.5	3256
5	2372	7	3263	22.5	229.5	
6						
7	2369	28	4408	30.4	310.1	4423
8	2370	28	4437	30.6	312.1	
9						

Prepared By: .....

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MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1001
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	2500 Psi (C17)	Min. Cement Content/m3:	240 kg	Cement Type:	I&V
W/C. Ratio	0.75	Max. Size of Agg.:	20 mm	Max. Slump:	140+40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	240		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	180		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	555		267.6	Summan
Agg. 10mm (Kg)	2.573	490		151.6	Summan
Sand (Kg)	2.625	850		327.6	Local Dune
Admx-D-10 (L)	1.12	2.4		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2317		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2317	Air Content:	2%	Slump:	160	Temp ©	25
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2340	3	1595	11.0	112.2	1668
2	2346	3	1740	12.0	122.4	
3						
4	2355	7	2262	15.6	159.1	2284
5	2350	7	2306	15.9	162.2	
6						
7	2346	28	3190	22.0	224.4	3081
8	2354	28	2973	20.5	209.1	
9						

Prepared By: .....

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MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

Checked By: .....

PRECON READY MIX & BLOCK

Mix Design Report

Date:	01-01-2024	Mix Code:	1003
Client:	GENERAL		
Project:	GENERAL		

Mix Properties:

Strength:	3500 Psi (C25)	Min. Cement Content/m3:	290 kg	Cement Type:	I&V
W/C. Ratio	0.58	Max. Size of Agg.:	20 mm	Max. Slump:	140±40 mm

Ingredients	Sp. Gr. SSD	SSD Wt	% of Agg.	Volume/Lt	Source
Cement (Kg)	3.15	290		61.9	Saudi Cement
Micro Silica (Kg)	2.2				Al Rashed
Free Water (Lt)	1	170		180	Precon R/O Plant
Agg. 20mm (Kg)	2.578	667		267.6	Summan
Agg. 10mm (Kg)	2.573	438		151.6	Summan
Sand (Kg)	2.625	738		327.6	Local Dune
Admx-D-10 (L)	1.12	2.9		1.071428571	Fosam
Admx-G-62 (L)	1.13			0	
Admx-Lt.		0		0	
Air Content	%	2		20	
Total		2305		1000	

Fresh Concrete Properties:

Unit Wt Kg/M:	2305	Air Content:	2%	Slump:	140	Temp ©	25
Initial Setting Time (Min):				Final Setting Time(Mine):			

Harden Concrete Properties:

No.	Density (Kg/m)	Age (Days)	Compressive Strength			Average (PSI)
			PSI	Mpa	Kg/cm2	
1	2340	3	2175	15.0	112.2	2247
2	2346	3	2320	16.0	122.4	
3						
4	2355	7	3132	21.6	159.1	3226.25
5	2350	7	3320.5	22.9	162.2	
6						
7	2346	28	3770	26.0	224.4	3878.75
8	2354	28	3987	27.5	209.1	
9						

Prepared By: .....

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PRECON CONCRETE & BLOCK

Checked By: .....

QA/AC DEPARTMENT
Compressive StrengthTest Report

بريكون
للخرسانة والطابوق

QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**6/3/2024**
Mix Code :	SRC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Darat Al Khobar
Site Location: Dallah

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	6-Mar-24	Slump(mm)	100	
Sampled by:	ROSHAN	Concrete Temp. (°C)	25	
Ticket No:	M 52	Ambient Temp. (°C)		-
Truck No:		Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2330.5	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	3-Apr-24	28 Day	675.54	30.12	4367.04
B	3-Apr-24	28 Day	670.34	29.08	4216.06
C	3-Apr-24	28 Day	672.42	29.54	4283.03
			Avarage of Strength :		**4289**

Remarks : Fundation

Prepared By : ROSHAN, Q/C Technician

Checked By : Ahmed Al Masri, Q/C Manager

بريكون للخرسانة والطابوق
مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

بريكون
للخرسانة والطابوق

QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**25/12/2023**
Mix Code :	SRC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Ramzy Al Ghamdy

Site Location: Al Nada

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	25/12/2023	Slump(mm)	112	
Sampled by:	ROSHAN	Concrete Temp. (°C)	25	
Ticket No:		Ambient Temp. (°C)		-
Truck No:	M.52	Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2130.7	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	24/01/2024	28Day	666.28	29.60	4292.00
B	24/01/2024	28 Day	699.12	33.25	4821.25
C	24/01/2024	28 Day	667.25	29.66	4300.70
			Avarage of Strength :		**4471**

Remarks :

Prepared By : ROSHAN, Q/C Technician

Checked By : Ahmed Al Masri, Q/C Meneger

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MATERIAL TESTING LAB
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QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**6/3/2024**
Mix Code :	SRC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Darat Al Khobar
Site Location: Dallah

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	6-Mar-24	Slump(mm)	100	
Sampled by:	ROSHAN	Concrete Temp. (°C)	25	
Ticket No:	M 52	Ambient Temp. (°C)		-
Truck No:		Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2330.5	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	13/03/2024	07 Day	499.17	22.01	3145.45
B	13/03/2024	07 Day	523.67	23.03	3339.35
C	13/03/2024	07 Day	470.65	20.01	2901.46
			Avarage of Strength :		3129

Remarks : Fundation

Prepared By : ROSHAN, Q/C Technician

Checked By : Ahmed Al Masri, Q/C Manager

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MATERIAL TESTING LAB
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بريكون
للخرسانة والطابوق

QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**5/11/2024**
Mix Code :	SRC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Darat Al Khobar
Site Location: Dallah

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	11-May-24	Slump(mm)	112	
Sampled by:	ROSHAN	Concrete Temp. (°C)	32	
Ticket No:	54	Ambient Temp. (°C)		-
Truck No:		Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2330.5	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	18/05/2024	07 Day	583.56	25.90	3755.50
B	18/05/2024	07 Day	536.65	23.08	3346.60
C	18/05/2024	07 Day	580.27	25.60	3712.00
			Avarage of Strength :		**3605**

Remarks : Fundation

Prepared By : ROSHAN, Q/C Technician

Checked By : Ahmed Al Masri, Q/C Meneger

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QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**25/12/2023**
Mix Code :	SRC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Ramzy Al Ghamdy
Site Location: Al Nada

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	25/12/2023	Slump(mm)	112	
Sampled by:	ROSHAN	Concrete Temp. (°C)	25	
Ticket No:		Ambient Temp. (°C)		-
Truck No:	M.52	Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2130.7	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	1-Jan-24	07Day	583.56	25.90	3755.50
B	1-Jan-24	07 Day	536.65	23.08	3346.60
C	1-Jan-24	07 Day	546.04	24.02	3482.90
			Avarage of Strength :		3528

Remarks :

Prepared By : ROSHAN, Q/C Technician

Checked By : Ahmed Al Masri, Q/C Meneger

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MATERIAL TESTING LAB
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QA/AC DEPARTMENT

Compressive StrengthTest Report

Design Strength :	**4000 PSI**	**Date:**	**3/6/2024**
Mix Code :	OPC 4000	Lab No:	1
Mix No:	1	Cement Type:	4000 PSI 4000
Method :	ASTM C94	Admixture:	RP215

Client Name: Samri Contractind Company

Site Location: Air Port

DETAILS OF CONCRETE SAMPLING & TEST

Sampling Data		Concrete Properties		Requirements
Date of Sampled	3-Jun-24	Slump(mm)	110	
Sampled by:	ROSHAN	Concrete Temp. (°C)	29	
Ticket No:		Ambient Temp. (°C)		-
Truck No:	7452	Air Content (%)		-
Time of Sampling:		Unit Weight (Kg/m^3)	2130.7	

Sampled At :		Type of Specimen		Size of Specimen	Area
Plant	NO	Cylinder	YES	300*150	17671.5
Site	YES	Cube	-		
		Beam	-		

Sample No.	Date of Test	Age of Sample	Load (KN)	Strength	
				Mpa	Psi
A	10-Jun-24	07Day	472.69	21.00	3045.00
B	10-Jun-24	07 Day	476.12	21.10	3059.50
C	10-Jun-24	07 Day	493.2	21.90	3175.50
			Avarage of Strength :		3093

Remarks : Foundation

Prepared By : ROSHAN
Q/C Technician

Checked By : Ahmed Al Masri
Q/C Meneger

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Rev.No.00; Date:18.07.2017; FM.QC.14

Reports and calibrations

BUILDING TRUST

Sika Saudi Arabia- Rabigh Industrial City Phase 3 - 21371 Rabigh

CONTACT
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R&D/QC Manager
Phone: +966 56 908 0447
Fax: +966 12 692 1272
bran.ioan@sa.sika.com
gcc.sika.com

To: **Abo Haitham Trading Group Co.**

Batch number: **DM-2406093**

Reference: **0784 / 27.06.2024**

Delivery number: **10936/24**

Product: **Sika Plast 160 Plus**

Dear Sir,
Referring to above subject we confirm hereby the following:

Inspection certificate

Nr.	Properties	QC Tests results	QC Specification	Test Method used
1.	Aspect	Light Brown Liquid	Light Brown Liquid	CQP 001 - 1 V.6
2.	Specific Gravity	1.037	1.020 - 1.060	CQP006-1 V.3
3.	Solid Content	15.67	14.00 - 17.00 %	CQP002-1 V.3
4.	pH	3.19	3.00 - 6.00	CQP004-1 V.4

Ioan Bran
R&D/QC Manager

Abdulaziz Alrabighi
QC. Engineer

Gulf Engineering House
TEST REPORT
COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client Name	: PRECON	**Email**	: -
Project Name	: MAJID ABU AL MAKARAM QATIF	**Lab Ref. No.**	: -
Sample Source	: -	**Lab Project No.**	: -
Sample Description	: CONCRETE 4500 PSI, SRC	**Date Sampled**	: 14-10-23
Sampling Method	: C31/C31M-21a,C172/172M-17	**Date Sample Received**	:
Method of Placement	: -	**Date Reported**	: 16-12-23
Sampled by	: CLIENT	**Tested by**	: HASSAN
Enviromental Condition (Lab)	: Temp(°C): 23 Humidity(%): 55 Curing Temp(°C): 23±2	**Test Location**	: DAMMAM LAB
RFI No.	:		

Sample No.	Date Tested	Age (days)	Dimension (mm)	Area (mm^2)	Weight (g)	Density (kg/m^3)	Air Content (%)	Slump (mm)	Dial Reading (kN)	Compressive Strength				Type of Fracture	Remarks	Type of Curing
										Kg/cm^2	PSI	MPa	U			
1	16-12-23	<28	15 x 30	176.7	12330	2326	-	-	661.3	381.6	5427	**37.4**	*± 0.2*	T-2	PASSED	Lab
									Average 28 Days (Lab)	381.6	5427	**37.4**	-	-	PASSED	-

Time Batched (Hrs.): **Ticket/ Batch No.:**

Time Sampled (Hrs.) **Temperature of Mix (°C):**

Location & Structure: COLUMN

Test Method: ASTM C39/C39M-21 **Method Variation:** NIL

Reference Specifications/Standards for Statement of Conformity: NIL

Statement of Conformity: ☑ Passed ☐ Failed

Decision Rule: The statement of conformity is related to test results only, regardless of the uncertainty calculations.

Remarks: Sampling Information Provided by Client, Sample received for compressive strength testing only

END OF RESULTS

Notes:
(1) The stated expanded uncertainty of measurement is the combined uncertainty of measurements multiplied by the coverage factor k=2, providing a level of confidence approximately 95%.
(2) The above results are related to the tested sample/specimen only.
(3) This test report shall not be reproduced except in full, without a written approval from GEH Dammam Laboratory.
(4) Expanded Uncertainty = *U*

دار الخليج للهندسة
Gulf Engineering House
مختبر الدمام
C.R.: 1010615594 س.ت

S.M.ANAS/ CTTA #0825 (Lab Supervisor)
Reviewed By

FERAS/CTTA # 0326 (Tech'l. Supervisor)
Approved By

P.O.Box-3569, Dammam-31481- KSA, T: +966 13 8210415,
F: +966 13 8210412, Email: admin-dam@dralkhalij.com

This test is accredited by ISO/IEC 17025.

Gulf Engineering House
TEST REPORT
COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client Name	: PRECON	**Email**	: -
Project Name	: MAJID ABU AL MAKARAM	**Lab Ref. No.**	: -
Sample Source	: -	**Lab Project No.**	: -
Sample Description	: CONCRETE 4500 PSI, SRC	**Date Sampled**	: 16-11-23
Sampling Method	: C31/C31M-21a,C172/172M-17	**Date Sample Received**	:
Method of Placement	: -	**Date Reported**	: 16-12-23
Sampled by	: CLIENT	**Tested by**	: SAIDU/CTTA#834
Enviromental Condition (Lab)	: Temp(°C): 23 Humidity(%): 55 Curing Temp(°C): 23±2	**Test Location**	: DAMMAM LAB
RFI No.	:		

Sample No.	Date Tested	Age (days)	Dimension (mm)	Area (mm^2)	Weight (g)	Density (kg/m^3)	Air Content (%)	Slump (mm)	Dial Reading (kN)	Compressive Strength				Type of Fracture	Remarks	Type of Curing
										Kg/cm^2	PSI	MPa	U			
1	16-12-23	<28	15 x 30	176.7	12719	2399	-	-	569.9	328.8	4677	**32.2**	± 0.2	T-5	PASSED	Lab
2	16-12-23	<28	15 x 30	176.7	12311	2322	-	-	585.3	337.7	4803	**33.1**	± 0.2	T-2	PASSED	Lab
									Average 28 Days (Lab)	333.3	4740	**32.7**	-	-	PASSED	-

Time Batched (Hrs.): **Ticket/ Batch No.:**
Time Sampled (Hrs.) **Temperature of Mix (°C):**
Location & Structure: SLAB

Test Method: ASTM C39/C39M-21 **Method Variation:** NIL

Reference Specifications/Standards for Statement of Conformity: NIL

Statement of Conformity: ☑ Passed ☐ Failed

Decision Rule: The statement of conformity is related to test results only, regardless of the uncertainty calculations.

Remarks: Sampling Information Provided by Client, Sample received for compressive strength testing only

END OF RESULTS

Notes:
(1) The stated expanded uncertainty of measurement is the combined uncertainty of measurements multiplied by the coverage factor k=2, providing a level of confidence approximately 95%.
(2) The above results are related to the tested sample/specimen only.
(3) This test report shall not be reproduced except in full, without a written approval from GEH Dammam Laboratory.
(4) Expanded Uncertainty = U

S.M.ANAS/ CTTA #0825 (Lab Supervisor)
Reviewed By

FERAS/CTTA# 0326 (Tech. Supervisor)
Approved By

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F: +966 13 8210412, Email: admin-dam@daralkhalij.com

Document No: Issue No:
Date: April 2023
Page: 1 of 1

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Gulf Engineering House
TEST REPORT
COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client Name	: PRECON	**Email**	: -
Project Name	: MAJID ABU AL MAKARAM QATIF	**Lab Ref. No.**	: -
Sample Source	: -	**Lab Project No.**	: -
Sample Description	: CONCRETE 4500 PSI, SRC	**Date Sampled**	: 02-10-23
Sampling Method	: C31/C31M-21a,C172/172M-17	**Date Sample Received**	:
Method of Placement	: -	**Date Reported**	: 16-12-23
Sampled by	: CLIENT	**Tested by**	: HASSAN
Enviromental Condition (Lab)	: Temp(°C): 23 Humidity(%): 55 Curing Temp(°C): 23±2	**Test Location**	: DAMMAM LAB
RFI No.	:		

Sample No.	Date Tested	Age (days)	Dimension (mm)	Area (mm^2)	Weight (g)	Density (kg/m^3)	Air Content (%)	Slump (mm)	Dial Reading (kN)	Compressive Strength				Type of Fracture	Remarks	Type of Curing
										Kg/cm²	PSI	MPa	U			
1	16-12-23	<28	15 x 30	176.7	12526	2363	-	-	830.3	479.1	6814	**47.0**	± 0.2	T-2	PASSED	Lab
2	16-12-23	<28	15 x 30	176.7	12646	2385	-	-	826.3	476.8	6781	**46.8**	± 0.2	T-3	PASSED	Lab
									Average 28 Days (Lab)	477.9	6798	**46.9**	-	-	PASSED	-

Time Batched (Hrs.): **Ticket/ Batch No.:**
Time Sampled (Hrs.) **Temperature of Mix (°C):**
Location & Structure: Wall

Test Method: ASTM C39/C39M-21 **Method Variation:** NIL
Reference Specifications/Standards for Statement of Conformity: NIL
Statement of Conformity: ☑ Passed ☐ Failed
Decision Rule: The statement of conformity is related to test results only, regardless of the uncertainty calculations.
Remarks: Sampling Information Provided by Client, Sample received for compressive strength testing only

END OF RESULTS

Notes:
(1) The stated expanded uncertainty of measurement is the combined uncertainty of measurements multiplied by the coverage factor k=2, providing a level of confidence approximately 95%.
(2) The above results are related to the tested sample/specimen only.
(3) This test report shall not be reproduced except in full, without a written approval from GEH Dammam Laboratory.
(4) Expanded Uncertainty = U

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بريكون للخرسانه والطابوق مختبر فحص المواد MATERIAL TESTING LAB ★ PRECON CONCRETE & BLOCK ★

S.M.ANAS/ CTTA #0825 (Lab Supervisor)
Reviewed By

FERAS/CTTA # 0326 (Tech. Supervisor)
Approved By

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Document No.	Issue No.	Date	Page
FM-LAB-...	4	April 2023	1 of 1

This test is accredited by ISO/IEC 17025.

Gulf Engineering House
TEST REPORT
COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client Name	: PRECON	**Email**	: -
Project Name	: MAJID ABU AL MAKARAM	**Lab Ref. No.**	: -
Sample Source	: -	**Lab Project No.**	: -
Sample Description	: CONCRETE 400 PSI	**Date Sampled**	: 26-08-23
Sampling Method	: C31/C31M-21a,C172/172M-17	**Date Sample Received**	:
Method of Placement	: -	**Date Reported**	: 25-09-23
Sampled by	: -	**Tested by**	: SHIJO/CTTA#1504
Enviromental Condition (Lab)	: Temp(°C): 23 Humidity(%): 55 Curing Temp(°C): 23±2	**Test Location**	: DAMMAM LAB
RFI No.	:		

Sample No.	Date Tested	Age (days)	Dimension (mm)	Area (mm^2)	Weight (g)	Density (kg/m^3)	Air Content (%)	Slump (mm)	Dial Reading (kN)	Compressive Strength				Type of Fracture	Remarks	Type of Curing
										Kg/cm^2	PSI	MPa	*U*			
1	24-09-23	29	15 x 30	176.7	12691	2394	-	-	742.3	428.3	6092	**42.0**	± 0.2	T-2	PASSED	Lab
2	24-09-23	29	15 x 30	176.7	12452	2349	-	-	693.7	400.3	5693	**39.3**	± 0.2	T-5	PASSED	Lab
									Average 29 Days (Lab)	414.3	5892	**40.6**	-	-	PASSED	-

Time Batched (Hrs.):
Ticket/ Batch No.:
Time Sampled (Hrs.)
Temperature of Mix (°C):
Location & Structure:

Test Method: ASTM C39/C39M-21 **Method Variation:** NIL

Reference Specifications/Standards for Statement of Conformity: NIL

Statement of Conformity: ☑ Passed ☐ Failed

Decision Rule: The statement of conformity is related to test results only, regardless of the uncertainty calculations.

Remarks: Sampling Information Provided by Client

END OF RESULTS

Notes:
(1) The stated expanded uncertainty of measurement is the combined uncertainty of measurements multiplied by the coverage factor k=2, providing a level of confidence approximately 95%.
(2) The above results are related to the tested sample/specimen only.
(3) This test report shall not be reproduced except in full, without a written approval from GEH Dammam Laboratory.
(4) Expanded Uncertainty = *U*

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مختبر فحص المواد
MATERIAL TESTING LAB
PRECON CONCRETE & BLOCK

دار الخليج للهندسة
Gulf Engineering House
Dammam Lab مختبر الدمام
C.R.: 1010515504 سجل تجاري

S.M.ANAS/ CTTA #0825 (Lab Supervisor)
Reviewed By

FERAS/CTTA# 0326 (Tech. Supervisor)
Approved By

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Document No. FM-LAB-... Issue No. ... Date April 2023 Page 1 of 1

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Website: www.alhotycalibration.com

ACCREDITED
CERT #3467.01

Certificate of Calibration

Certificate No: 12406010

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Cement Scale	Page No:	1 of 2
Manufacturer:	Changsha Supmeter Technological Co Ltd.	Received Date:	01 June 2024
Model:	BST-106-B60S [L]	Calibration Date:	01 June 2024
Serial Number:	LX016256S	Calibration Due Date:	01 June 2025
Asset Number:	N/A	Certificate Issue Date:	06 June 2024
Customer P.O:	N/A	Received Condition:	In tolerance
		Returned Condition:	In tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), an cement scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 42.4 ±0.6°C / 19.9 ±0.7%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 3,000 kg / Resolution: 1 kg
Location: Plant # 2,Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Test Weights	ACS-KH-MA003	23 September 2024	1S240325 (NMCC, KSA / METAS)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC,KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

AL-HOTY CALIBRATION SERVICES

Cement Scale	**Certificate Number:** 12406010
Serial Number: LX016256S	**Page:** 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg) As found	UUT Reading (kg) As left	Error (kg)	Tolerance (kg)	Uncertainty (kg)	Compliance
Scale Accuracy Test	100	100	100	0	± 5	± 0.58	P
	200	200	200	0	± 5	± 0.58	P
	400	400	400	0	± 5	± 0.58	P
	600	599	599	-1	± 5	± 0.58	P
	800	801	801	+1	± 5	± 0.59	P
	1000	1001	1001	+1	± 5	± 0.59	P
	1200	1201	1201	+1	± 5	± 0.60	P
	1400	1399	1399	-1	± 5	± 0.60	P
	1600	1598	1598	-2	± 5	± 0.61	P

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

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Certificate of Calibration

Certificate No: 12406011

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Water Meter
Manufacturer:	EMKO
Model:	EZM-9930
Serial Number:	31066642-W
Asset Number:	N/A
Customer P.O:	N/A

Page No:	1 of 2
Received Date:	01 June 2024
Calibration Date:	01 June 2024
Calibration Due Date:	01 June 2025
Certificate Issue Date:	06 June 2024
Received Condition:	In tolerance
Returned Condition:	In tolerance

Calibration Procedure: ICP-I-078

Summary of Procedure: The Unit Under Test (UUT), a water meter was calibrated by measuring the actual output water using a volumetric graduated container.

Environmental Condition: 42.2 ±1.0°C / 21.0 ±0.87%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 999 Liters / Min. Division: 1L x7.5 Liters
Location: Plant # 2,Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Volumetric Graduated Container	ACS-KH-FV008A	23 July 2024	1S240117 (METAS/NMCC,KSA/NIST, USA)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC, KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

AL-HOTY CALIBRATION SERVICES

Water Meter	**Certificate Number** 12406011
Serial Number: 31066642-W	**Page:** 2 of 2

Calibration Results

Test Description	UUT Setting	Nominal (liters)	Measured Output (liters)	Error (liters)	Tolerance (liters)	Uncertainty (liters)	Compliance
Meter Accuracy Test	27 (x 7.5)	202.5	200	-2.5	± 3	± 4.4	*P

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

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Website: www.alhotycalibration.com

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Certificate of Calibration

Certificate No: 12406009

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Aggregate Scale	Page No:	1 of 2
Manufacturer:	Changsha Supmeter Technological Co Ltd.	Received Date:	01 June 2024
Model:	BST-106-B60S [L]	Calibration Date:	01 June 2024
Serial Number:	LX016255S	Calibration Due Date:	01 June 2025
Asset Number:	N/A	Certificate Issue Date:	06 June 2024
Customer P.O:	N/A	Received Condition:	Out of tolerance
		Returned Condition:	Adjusted, in tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), an aggregate scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 42.9 ±0.8°C / 20.6 ±0.5%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 6,000 kg / Resolution: 1 kg
Location: Plant # 2,Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Test Weights	ACS-JB-150	17 September 2024	1S240315 (METAS)
Test Weights	ACS-KH-MA003	23 September 2024	1S240325 (NMCC,KSA METAS)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC,KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

AL-HOTY CALIBRATION SERVICES

Aggregate Scale	**Certificate Number:** 12406009
Serial Number: LX016255S	**Page:** 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg) As found	UUT Reading (kg) As left	Error (kg)	Tolerance (kg)	Uncertainty (kg)	Compliance
Scale Accuracy Test	500	475	500	0	± 9	± 0.58	P
	1000	-	1000	0	± 9	± 0.59	P
	1500	-	1500	0	± 9	± 0.61	P
	2000	-	2000	0	± 9	± 0.63	P
	2500	-	2500	0	± 9	± 0.66	P
	3000	-	3000	0	± 9	± 0.69	P
	3500	-	3501	+1	± 9	± 0.73	P
	4000	-	4001	+1	± 9	± 0.77	P
	4500	-	4502	+1	± 9	± 0.82	P
	5000	-	5002	+2	± 9	± 0.86	P

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

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Certificate of Calibration

Certificate No: 12406006

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Aggregate Scale	Page No:	1 of 2
Manufacturer:	Changsha Supmeter Technological Co Ltd.	Received Date:	01 June 2024
Model:	BST-106-B60S [L]	Calibration Date:	01 June 2024
Serial Number:	LX016253S	Calibration Due Date:	01 June 2025
Asset Number:	N/A	Certificate Issue Date:	06 June 2024
Customer P.O:	N/A	Received Condition:	In tolerance
		Returned Condition:	In tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), an aggregate scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 43.6 ±0.5°C / 21.1 ±0.9%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 6,000 kg / Resolution: 1 kg
Location: Plant # 1, Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Test Weights	ACS-JB-150	17 September 2024	1S240315 (METAS)
Test Weights	ACS-KH-MA003	23 September 2024	1S240325 (NMCC,KSA METAS)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC, KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

AL-HOTY CALIBRATION SERVICES

Aggregate Scale	**Certificate Number:** 12406006
Serial Number: LX016253S	**Page:** 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg) As found	UUT Reading (kg) As left	Error (kg)	Tolerance (kg)	Uncertainty (kg)	Compliance
Scale Accuracy Test	500	500	500	0	± 9	± 0.58	P
	1000	1000	1000	0	± 9	± 0.59	P
	1500	1501	1501	1	± 9	± 0.61	P
	2000	2001	2001	1	± 9	± 0.63	P
	2500	2501	2501	1	± 9	± 0.66	P
	3000	3002	3002	2	± 9	± 0.69	P
	3500	3502	3502	2	± 9	± 0.73	P
	4000	4002	4002	2	± 9	± 0.77	P
	4500	4502	4502	2	± 9	± 0.82	P
	5000	5003	5003	3	± 9	± 0.86	P

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

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Certificate of Calibration

Certificate No: 12406007

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Cement Scale
Manufacturer:	-
Model:	TL6D MT0V2S0AC
Serial Number:	22092701
Asset Number:	N/A
Customer P.O:	N/A

Page No:	1 of 2
Received Date:	01 June 2024
Calibration Date:	01 June 2024
Calibration Due Date:	01 June 2025
Certificate Issue Date:	06 June 2024
Received Condition:	In tolerance
Returned Condition:	In tolerance

Calibration Procedure: ICP-I-071

Summary of Procedure: The Unit Under Test (UUT), a cement scale was carried-out by build-up test method using known weights with material or other product used during production. The test weights were placed onto the hopper and reading was then taken from the scale / indicator.

Environmental Condition: 43.1 ±0.8°C / 20.6 ±0.4%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 2,500 kg / Resolution: 0.01 kg
Location: Plant # 1, Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Test Weights	ACS-KH-MA003	23 September 2024	1S240325 (NMCC,KSA METAS)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC, KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

This certificate applies only to the item described. Calibration certificate without signature and stamp is not valid. The ...

AL-HOTY CALIBRATION SERVICES

Cement Scale	**Certificate Number:** 12406007
Serial Number: 22092701	**Page:** 2 of 2

Calibration Results

Test Description	Applied Load (kg)	UUT Reading (kg) As found	UUT Reading (kg) As left	Error (kg)	Tolerance (kg)	Uncertainty (kg)	Compliance
Scale Accuracy	100	100.52	100.52	+0.52	± 4	± 0.0064	P
Test	200	200.61	200.61	+0.61	± 4	± 0.0079	P
	400	400.69	400.69	+0.69	± 4	± 0.052	P
	600	600.74	600.74	+0.74	± 4	± 0.077	P
	800	800.89	800.89	+0.89	± 4	± 0.10	P
	1000	1000.95	1000.95	+0.95	± 4	± 0.13	P
	1200	1201.19	1201.19	+1.19	± 4	± 0.15	P
	1400	1401.29	1401.29	+1.29	± 4	± 0.18	P
	1600	1601.38	1601.38	+1.38	± 4	± 0.21	P

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

AL-HOTY CALIBRATION SERVICES
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Website: www.alhotycalibration.com

ACCREDITED
CERT #3467.01

Certificate of Calibration

Certificate No: 12406008

Customer Name: Al Hisan Factory
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Water Meter
Manufacturer:	EMKO
Model:	EZM-9930
Serial Number:	22092702-W
Asset Number:	N/A
Customer P.O:	N/A

Page No:	1 of 2
Received Date:	01 June 2024
Calibration Date:	01 June 2024
Calibration Due Date:	01 June 2025
Certificate Issue Date:	06 June 2024
Received Condition:	In tolerance
Returned Condition:	In tolerance

Calibration Procedure: ICP-I-078

Summary of Procedure: The Unit Under Test (UUT), a water meter was calibrated by measuring the actual output water using a volumetric graduated container.

Environmental Condition: 43.3 ±1.1°C / 21.8 ±0.7%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Tolerance: ASTM C94/C94M-23
Max. Capacity: 999 Liters / Min. Division: 1L x10 Liters
Location: Plant # 1,Abu Hadriya, Dammam
The statement of compliance was based on the performance of the unit under test (UUT) against ASTM C94/C94M-23 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
Volumetric Graduated Container	ACS-KH-FV008A	23 July 2024	1S240117 (METAS/NMCC,KSA/NIST, USA)
Digital Temperature Humidity Meter	ACS-KH-TE025	15 April 2025	1S240415 (NIST, USA / NMCC, KSA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017.

This certificate applies only to the item described on this certificate.

AL-HOTY CALIBRATION SERVICES

Water Meter	**Certificate Number** 12406008
Serial Number: 22092702	**Page:** 2 of 2

Calibration Results

Test Description	UUT Setting	Measured Output (liters)	Error (liters)	Tolerance (liters)	Uncertainty (liters)	Compliance
Meter Accuracy Test	200	200	0	± 3	± 5.8	P

Notation:

P - *Pass*
*** P -** *Conditional Pass*
*** F -** *Conditional Fail*
F - *Fail*

End of Certificate

AL-HOTY CALIBRATION SERVICES
A BRANCH OF AL-HOTY CO. LTD.

Calibration Laboratory
C.R.2051015391
25th Corner Zulfi St, Thuqbah,
Al-Khobar 31952 - Kingdom of Saudi Arabia
Tel. : (013) 864 4150 / 894 8020 / 894 5452
Fax : (013) 898 1644 / 894 3980
E-mail : acs.kh@al-hoty.com
Website: www.alhotycalibration.com

ACCREDITED
CERT #3467.01

Certificate of Calibration

Certificate No: 12406352

Customer Name: Al Hussan Contracting
Address: Dammam, Kingdom of Saudi Arabia

Product Identification and Specification

Item Submitted:	Compression Machine
Manufacturer:	NL Scientific
Model:	NL 4000X/032G
Serial Number:	0423120506
Asset Number:	N/A
Customer P.O:	N/A

Page No:	1 of 2
Received Date:	27 June 2024
Calibration Date:	27 June 2024
Calibration Due Date:	27 June 2025
Certificate Issue Date:	30 June 2024
Received Condition:	Refer to cal. results
Returned Condition:	Refer to cal. results

Calibration Procedure: ICP-I-063

Summary of Procedure: The Unit Under Test (UUT), a compression machine has been calibrated and verified to the requirements of BS EN ISO 7500-1: 2018 against a reference standard load cell and digital indicator.

Environmental Condition: 31.0 ± 1.4°C / 39 ± 5%RH

Calibration Results: *(see the next page)*

Calibration Notes:

Basis of Requirements : BS EN ISO 7500-1: 2018
Location: Dammam
The Statement of Compliance is based on the performance of the Unit Under Test (UUT) against BS EN ISO 7500-1: 2018 requirements and taking the measurement uncertainty into account applies decision rule by metrological analysis.
The equipment shall be reverified if it is moved to a new location necessitating dismantling or if it is subject to major repairs or adjustments.

Standard Used to Calibrate Instrument:

Description	ACS Number	Cal Due Date	Traceability
3000 kN Load Cell w/ Digital Indicator	ACS-KH-FT016/FT012	17 January 2025	C140-08-1-07A1723 (NIST, USA)
Digital Thermo-Hygrometer	ACS-KH-TH033	30 September 2024	1S230931 (NMCC, KSA / NIST, USA)

Calibrated By: _____
Calibration Tech. (Stamp)

Approved By: _____
Manager

The reported expanded uncertainty of measurement is stated as the standard uncertainty measurement multiplied by the coverage factor k=2, providing a level of confidence of approximately 95%.

This certifies that the above listed instrument has been calibrated using standards whose accuracies are traceable to national or international standards and in accordance with the quality system conform to ISO/IEC 17025:2017

AL-HOTY CALIBRATION SERVICES

Compression Machine	**Certificate Number:** 12406352
Serial Number: 0423120506	**Page:** 2 of 2

Calibration Results

Type	Digital Indicator	**Range**	2000 kN
Serial Number	0423120506	**Scale Division/Increment**	0.01 / 0.1 kN

Mode of Test	Increasing Force in Compression	**Method of Test**	True Force

Relative Accuracy, Repeatability, Zero and Resolution

Constant Force (kN)	UUT Reading (kN) Test 1	Test 2	Test 3	Test 4 Note (1)	Mean (kN)	Accuracy (%)	Relative Repeatability Error (%)	Measurement Uncertainty (kN)	Compliance
300	303.72	302.93	300.83	N/A	302.49	+0.83	0.96	±2.3	*P
600	603.59	602.04	600.24		601.96	+0.33	0.56	±2.6	P
900	902.91	900.98	898.72		900.87	+0.10	0.47	±3.3	P
1200	1201.8	1200.4	1198.4		1200.2	+0.02	0.28	±2.7	P
1500	1500.0	1498.5	1495.6		1498.0	-0.13	0.29	±3.5	P

Relative *Zero* Error				Relative *Resolution*	
Test 1 (%)	**Test 2 (%)**	**Test 3(%)**	**Mean (%)**	**Resolution / Readability**	**(%)**
0.00	0.00	0.00	0.00	0.01 / 0.1 kN	0.003 / 0.008

Note (1) Test 4 is use during the verification of accessory devices (pointer, recorder) and its not included in the computation of mean.

The testing machine is normally used ☐ with ☑ without accessories.

Type of accessories : None

Classification

Accuracy	Class	1	Compression from 300 kN up to 1500 kN
Repeatability	Class	1	Compression from 300 kN up to 1500 kN
Zero	Class	-	-
Resolution	Class	1	Compression from 300 kN up to 1500 kN

Notation:

P - *Pass*
*** P** - *Conditional Pass*
*** F** - *Conditional Fail*
F - *Fail*

End of Certificate

AL-HOTY CALIBRATION SERVICES

ZAIN Eastern Est.
Development Technics

ZAIN
Developement Technics

مؤسسة إيـــن الشرقيـة
للتقنيـات المتطـورة

S.NO.4405

CLIENT	**BARIQA WATER FACTORY**
DATE OF SAMPLE	22 June 2024
DATE OF ANALYSIS	25 June 2024
TYPE OF ANALYSIS	Sweet Water

TEST	CONTROL LIMITS HIGHEST DESIRABLE	RESULTS	
APPEARANCE	–	CLEAR	
TASTE	–	UNOBJECTIONABLE	
ODOR	–	UNOBJECTIONABLE	
TEMPRATURE	–	25.5 O C	
PH VALUE	6.5-8.5	6.80	
CONDUCTIVITY	–	215	us / cm
T.D.S	500	145	mg /l
M-ALAKALINITY	200	12	mg / l as $CaCO_3$
BICARBONATE	75	13	mg / l as HCO_3
CHLORIDE	200	35	mg / las $C1^-$
TOTAL HARDNESS	100	20	mg / l as $CaCO_3$
CALCIUM HARDNESS	75	12	mg / l as $CaCO_3$
MAGNESIUM HARDNESS	30	07	mg / l as $CaCO_3$
POTASSIUM	4.0	2	mg / l as K^+
SULPHATE	200	8	mg / l as SO_4^{2}
TOTAL CHLORINE	0.2-0.7	0.6	mg / l as $C1_2$
SILICA	–	20	mg / l as SiO_2
IRON(TOTAL)	0.1	0.01	mg / l as Fe^+
ZINC	–	0.02	mg / l
MICROBIOLOGY SRB	–	0.00	mg / l

MOHAMED HASSAN .

CHEMIST
WPSA-LAB

مؤسسة زين الشرقية
س ت
٢٠٥٣٠٢٨٢٣٦
للتقنيات المتطورة

اسمنت الشرقية
Eastern Cement

DATE : 22.04.2024

CERTIFICATE NO. 244447A

Issued to: Al Diyar Al Mumaiazah

TEST CERTIFICATE

ACCORDING TO ASTM C150/C150 M

ORDINARY PORTLAND CEMENT (TYPE- I)

CHEMICAL ANALYSIS			
PARAMETERS		RESULT OBTAINED %	STANDARD REQUIREMENT
SILICON DIOXIDE	SiO2	21.08	LIMIT NOT SPECIFIED
ALUMINIUM OXIDE	Al2O3	4.72	LIMIT NOT SPECIFIED
FERRIC OXIDE	Fe2O3	3.39	LIMIT NOT SPECIFIED
CALCIUM OXIDE	CaO	64.08	LIMIT NOT SPECIFIED
MAGNESIUM OXIDE	MgO	1.23	MAX. 6.0 %
SULFUR TRI OXIDE	SO3	2.92	MAX. 3.0 %
LOSS ON IGNITION	LOI	2.12	MAX 3.0 %
INSOLUBLE RESIDUE	IR	1.18	MAX 1.5 %
EQUIVALENT ALKALIES	Na2O + 0.658 K2O	0.55	OPTIONAL AS PER ASTM C33
TRICALCIUM SILICATE	C3S	55.78	LIMIT NOT SPECIFIED
TRICALCIUM ALUMINATE	C3A	6.77	LIMIT NOT SPECIFIED
TETRACALCIUM ALUMINOFERRITE	C4AF	10.31	LIMIT NOT SPECIFIED
CHLORIDE	Cl	0.02	LIMIT NOT SPECIFIED
PHYSICAL TESTS			
SETTING TIME (VICAT)- MINUTES	INITIAL	110	NOT LESS THAN 45 MINUTES
	FINAL	165	NOT MORE THAN 375 MINUTES
FINENESS (BLAINE) SPECIFIC SURFACE	m2/kg	329	MIN. 260 M2/KG
AUTOCLAVE EXPANSION	%	0.04	LIMIT NOT SPECIFIED
AIRCONTENT MORTAR (% BY VOL)	%	8.3	MAX. 12 %
COMPRESSIVE STRENGTH - Mpa (psi)	3 DAYS	23.9 (3467)	MIN. 12.0 Mpa (1740 psi)
	7 DAYS	28.3 (4105)	MIN. 19.0 Mpa (2760 psi)
	28 DAYS	Result awaited	OPTIONAL PHYSICAL REQUIREMENT

We certify that the above test results are for the cement which complies with ASTM C 150/ C 150M for type -1 Cement representing dispatch

FROM: 07.04.24 TO: 13.04.24

for

P& QC MANAGER

اسمنت الشرقية
Eastern Cement
شركة أسمنت المنطقة الشرقية

PLANT MANAGER

FM-QC-08,Rev02

EASTERN PROVINCE CEMENT CO.
P.O. Box 4535 Dammam 31412 - Saudi Arabia
Tel.: (0096613) 8312222 - Fax : (0096613) 8312000
C.R. 2050013303 - Chamber of Commerce Membership (131)

www.epcco.com.sa

شركة أسمنت المنطقة الشرقية
ص.ب ٤٥٣٦ الدمام ٣١٤١٢ - المملكة العربية السعودية
ت ٨٣١٢٢٢٢ (٠٠٩٦٦١٣) - فاكس ٨٣١٢٠٠٠ (٠٠٩٦٦١٣)
س.ت ٢٠٥٠٠١٣٤٠٠ - رقم اشتراك الغرفة التجارية (١٣١)

اسمنت الشرقية
Eastern Cement

DATE : 22.04.2024
CERTIFICATE NO. 244448/A
Issued to: Al Diyar Al Mumaiazah

TEST CERTIFICATE

ACCORDING TO ASTM C 150/ C150M
SULPHATE RESISTING PORTLAND CEMENT (TYPE- V)

		CHEMICAL ANALYSIS	
		RESULT OBTAINED %	STANDARD REQUIREMENT
SILICON DIOXIDE	SiO2	21.62	LIMIT NOT SPECIFIED
ALUMINIUM OXIDE	Al2O3	3.83	LIMIT NOT SPECIFIED
FERRIC OXIDE	Fe2O3	5.27	LIMIT NOT SPECIFIED
CALCIUM OXIDE	CaO	63.94	LIMIT NOT SPECIFIED
MAGNESIUM OXIDE	MgO	1.51	MAX. 6.0 %
SULFUR TRI OXIDE	SO3	2.06	MAX. 2.3 %
LOSS ON IGNITION	LOI	1.47	MAX 3.0 %
INSOLUBLE RESIDUE	IR	0.73	MAX 1.5 %
EQUIVALENT ALKALIES	Na2O + 0.658 K2O	0.54	OPTIONAL AS PER ASTM C33
TRICALCIUM SILICATE	C3S	56.85	LIMIT NOT SPECIFIED
TRICALCIUM ALUMINATE	C3A	1.23	MAX. 5.0 %
TETRACALCIUM ALUMINOFERRITE	C4AF	16.02	LIMIT NOT SPECIFIED
TETRACALCIUM ALUMINOFERRITE+ TRICALCIUM ALUMINATE	C4AF+2C3A	18.49	MAX. 25 %
CHLORIDE	Cl^-	0.02	LIMIT NOT SPECIFIED
		PHYSICAL TESTS	
SETTING TIME (VICAT)- MINUTES	INITIAL	110	NOT LESS THAN 45 MINUTES
	FINAL	160	NOT MORE THAN 375 MINUTES
FINENESS (BLAINE) SPECIFIC SURFACE	m2/kg	324	MIN. 260 M2/KG
AUTOCLAVE EXPANSION	%	0.03	LIMIT NOT SPECIFIED
AIRCONTENT MORTAR (% BY VOL)	%	8.5	MAX. 12 %
COMPRESSIVE STRENGTH - Mpa (psi)	3 DAYS	17.8 (2582)	MIN. 8.0 Mpa (1160 psi)
	7 DAYS	22.0 (3191)	MIN. 15.0 Mpa (2180 psi)
	28 DAYS	Result awaited	MIN. 21.0 Mpa (3050 psi)

We certify that the above test results are for the cement which complies with ASTM C 150/ C 150M for type -V Cement representing dispatch

FROM: 07.04.24 TO: 13.04.24

For

P& QC MANAGER

اسمنت الشرقية
Eastern Cement
شركة أسمنت المنطقة الشرقية

PLANT MANAGER

FM-QC-09,Rev 02

LIST OF SOME CLIENTS

#	Project Name	Location	Quantity
1	Mufreh Marzoug Al Harbi Company	Dammam	bricks 400,000
2	Bayan Saleh Al Shawish Foundation	Dammam	bricks 100,000
3	King Fahd University	Dammam	bricks 100,000
4	A company of Miles	Dammam	bricks 500,000
5	Mayada Foundation	Dammam	bricks 40,000
6	Al-Drees Station	Dammam	bricks 60,000
7	Ministry of Defense Security Precautions	Dammam	bricks 50,000
8			
9			
10			
11			
12			

Quality Control Manual

The following quality control guidelines are dictated by the management anxiety and concern that all elements produced at our factory shall comply with the required specification, standards and code of practice.

In this context, the following information are explicitly expounding the criteria for acceptance of the raw materials, of finished products and of manufacturing procedure. Unless specified by the client or his consultants, American standards shall prevail.

In order not to have any conflict of priorities, the quality assurance department is directly reporting to the highest management independently of production personnel. Quality of the production is strictly controlled at the two stages :-

Raw materials – by material testing laboratory.
Fabrication and finish products – by the QA/QC Engineer / Inspectors.

STANDARD TESTING PROCEDURES

1. TEST ON BASIC & RAW MATERIALS

Special attention is given to the selection of the basic materials. Test are conducted regularly thus ensuring compliance with the relevant standards (ASTM, DIN, BS or any particular requirement of the client). When necessary, tests are conducted by an Independent

Testing Laboratory, on the special request by the client. Each delivery of basic material is checked visually. All materials are stored to avoid contamination and maintain cleanliness.

1.1. CEMENT

Cement is received with test certificates and delivery order. This certificate is sentto the Quality Control Engineer for scrutinizing. This may normally reviewed after the material is used. If any problem is noticed, Production Manager will be informed who will arrange to locate concrete elements produced with this cement.
Cement will be visually inspected for color and quantity. In the event of nonconformance, foreman contacts the Production Manager for further action. After inspection, Mixer Foremen signs the delivery note. Original DV is sent to the store keeper.
Once in six months, the cement will be tested in an independent laboratory for physical and chemical analysis. Result will be scrutinized and filed by the Quality Control Engineer for at least 3 years.

1.2. AGGREGATE

Laboratory foremen will receive the material and sign the Delivery note aftersatisfying himself that right material of right size .

Laboratory tests will be done on aggregates as follows.

Grading Test : once a week on the aggregates available in the aggregate storage area.

Quality Control Managerwill verify the test results thereafter, the values will be enter in computer.

Other test like acid soluble Chlorides and sulfates, Specific g ravity, flakiness and water absorption will be done once every month.

1.4. BEACH SAND & DUNE SAND

Laboratory foremen receives the material and signs the delivery note after satisfying himself that material is of right size and quantity to an extent possible as per DV.

Laboratory tests will be done on aggregates as follows:
Grading Test :once a week on the aggregate available in the aggregate storage area.

Quality Control Manager will verify the test results there-after, the values will be enter in computer.

Quality Control Engineer will scrutinize test results and filed for at least 3 years and laboratory Foremen will file a copy of the same in the laboratory.

Mixer foremen shall insure that this information is passed to mixer plant operator. Mixer operator will use the sand in recommended proportions.

1.5 PLASTISIZERS & ADMIXTURES

Mixer foreman receives the test Certificate and Delivery Voucher . Test certificate is sent to the Quality Control Engineer for Verification.

Incase test report from the supplier shows a nonconformance, Production Manager will be notified and the consignment will be kept aside until further investigation is done and decision is taken in this regard.

1.6. WATER

Potable water supplied by private supplier will be used for concrete and will be checked for chemical analysis in an independent laboratory once in three months.

1.7. MICRO SILICA

Densified or intensified micro-silica are used for the production of concrete.
Production Manager is responsible for conducting the receiving inspection for micro-silica. Quantity and grade of the material mentioned on the bag will be inspected. Associated test certificates will be forwarded to the Quality Control Engineer for verification and filing.

1.8. REINFORCEMENT, EMBEDS & INSERTS etc.

Detailed inspection of incoming materials to be carried out against specifications. Tensile strength (by independent laboratory), if required.

2. TEST ON CONCRETE

2.1. TEST ON FRESH CONCRETE

- Slump test (Delivery/ Mix).
- Density test (Daily/ Mix)
- Fresh concrete temperature (Daily/ Mix)

2.2. TEST ON HARDENED CONCRETE

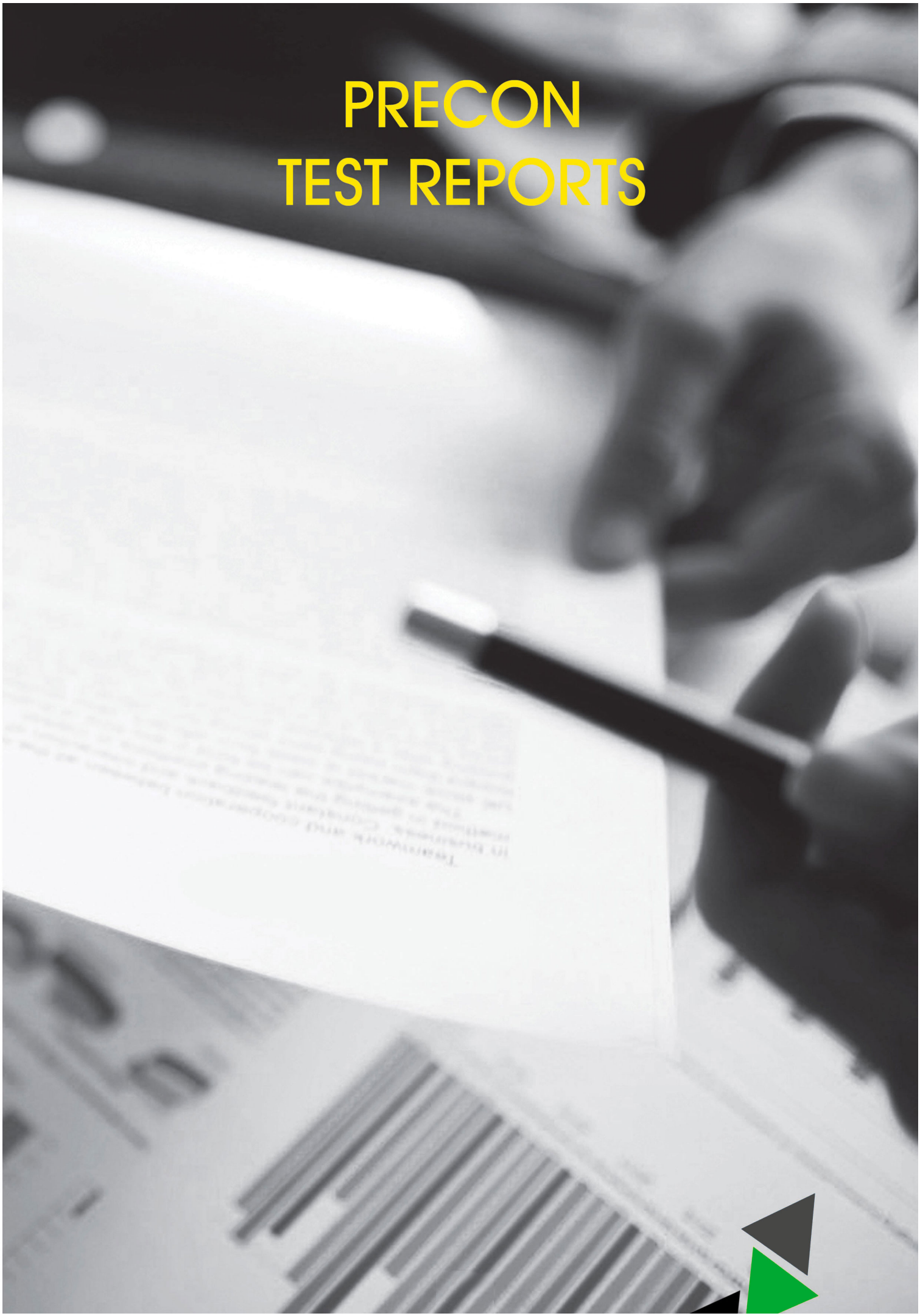
2.2.1. Compressive Strength

Samples of concrete are taken on a daily basis from each type of mix manufactured. Cylinder or cubes are cast and tested for compressive strength at the demoulding time and 3, 7, & 28 days. All results are recorded and graphical & statistical analysis made on a continuous basis .

The Production Manager will verify the cube test results on a daily basis. If the results are not as per requirement, then the precast components made with that concrete will be dealt as non conforming product. Engineering Manager or Structural Engineer will be informed and they will propose the corrective action or rejection of the element.

2.3. BATCHING PLANT CHECKING

In addition to the close control on the consistency of the concrete mixtures, the batch plant is visually inspected daily and scales calibration is performed by our staff on a monthly basis and by an independent firm on a bi-annum basis.


PRECON
TEST REPORTS

STANDARD معيار

شركة معيار العربية للفحص
Standard Arabia Inspection Co Ltd.
TESTING AND CALIBRATION DIVISION
6668, First Support Industrial Area, Al Jubail 3048-35717, KSA
C. R. No. 2055024044, C.O.C No. 174341
W: www.standardarabia.com I M: +966 -50 762 6660 | T: +966- 13 367 0802

TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	200x200x370-400 (Hollow)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11622
Sampled by	:	Dixter

REPORT DETAILS

Report No.	:	TR-11622
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2 (MPA)
A	M-CON-11622	17/09/24	385.1	76,950	5.00	4.94	48,352	7.96	7.87
B	M-CON-11622	17/09/24	375.4	76,950	4.88		48,352	7.76	
C	M-CON-11622	17/09/24	381.3	76,950	4.96		48,352	7.89	

REVIEWED BY (Lab Supervisor)	APPROVED BY (Quality Manager)
Abhimanyu	Fayaz M. Yousuff

AL MONGITH AL AWAL LABORATORY FOR CONSTRUCTION
Ibn Sina 2914, Al-Khobar 34627, K.S.A M: 050 6647770 E: info@mgtworld.com

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Standard Arabia Inspection Co Ltd.
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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	200 x 200 x 400 (Hollow)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11624
Sampled by	:	Dixter

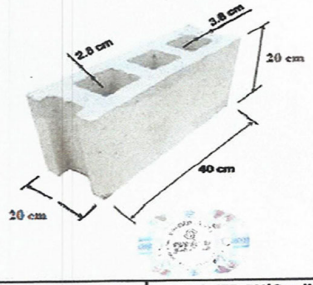
REPORT DETAILS

Report No.	:	TR-11624
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2 (MPA)
A	M-CON-11624	17/09/24	459.6	79,950	5.75	5.74	68,891	6.67	6.66
B	M-CON-11624	17/09/24	458.4	79,950	5.73		68,891	6.65	
C	M-CON-11624	17/09/24	458.9	79,950	5.74		68,891	6.66	



REVIEWED BY (Lab Supervisor)	APPROVED BY(Quality Manager)
Abhimanyu	Fayaz M. Yousuff

معيار STANDARD

شركة معيار العربية للفحص
Standard Arabia Inspection Co Ltd.
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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	150x200x400 (Hollow)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11620
Sampled by	:	Dixter

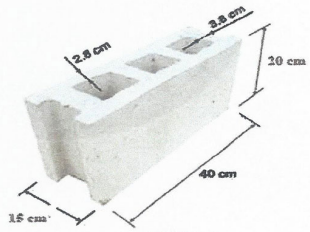
REPORT DETAILS

Report No.	:	TR-11620
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2(MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2(MPA)
A	M-CON-11620	17/09/24	350.7	59,890	5.85	5.87	38,779	9.04	9.06
B	M-CON-11620	17/09/24	352.2	59,890	5.88		38,779	9.08	



REVIEWED BY (Lab Supervisor)	APPROVED BY (Quality Manager)
Abhimanyu	Fayaz M.Yousuff

معيار STANDARD

شركة معيار العربية للفحص
Standard Arabia Inspection Co Ltd.
TESTING AND CALIBRATION DIVISION
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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	300 x 200 x 400 (Hollow)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11625
Sampled by	:	Dixter

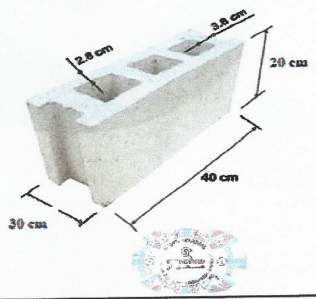
REPORT DETAILS

Report No.	:	TR-11625
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2 (MPA)
A	M-CON-11625	17/09/24	570.6	119,800	4.76	4.74	74,131	7.76	7.69
B	M-CON-11625	17/09/24	565.4	119,800	4.72		74,131	7.62	



REVIEWED BY (Lab Supervisor)	APPROVED BY(Quality Manager)
Abhimanyu	Fayaz M.Yousuff

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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	100x200x400 (Hollow)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11621
Sampled by	:	Dixter

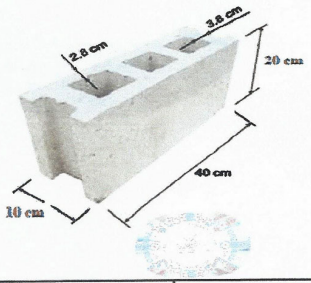
REPORT DETAILS

Report No.	:	TR-11621
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2(MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2(MPA)
A	M-CON-11621	17/09/24	320.7	39,400	8.13	8.16	29,179	10.99	11.16
B	M-CON-11621	17/09/24	325.6	39,400	8.26		29,179	11.59	
C	M-CON-11621	17/09/24	318.9	39,400	8.09		29,179	10.92	



REVIEWED BY (Lab Supervisor)	APPROVED BY (Quality Manager)
Abhimayu	Fayaz M. Yousuff

معيار STANDARD

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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	200 x200 x400(Hollow Insulation)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11623
Sampled by	:	Dixter

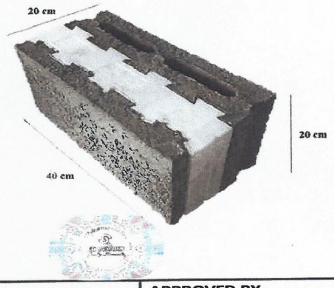
REPORT DETAILS

Report No.	:	TR-11623
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 13
Test Method	:	ASTM C 140 – 13
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2 (MPA)
A	M-CON-11623	17/09/24	585.6	79,910	7.33	7.35	71,510	8.19	8.22
B	M-CON-11623	17/09/24	595.4	79,910	7.45		71,510	8.33	
C	M-CON-11623	17/09/24	581.9	79,910	7.28		71,510	8.14	



REVIEWED BY (Lab Supervisor)	APPROVED BY
Isagani Hernandez	Tariq Al Rabiah (Chief Technical Officer)
Suresh Kumar	Rey Torrigue (Operations Manager)

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TEST REPORT

SAMPLING AND TESTING CONCRETE MASONARY UNITS AND RELATED UNITS
ASTM C 140 – 13

CLIENT INFORMATION

Client	:	Precon Concrete & Block
Address	:	Dammam, KSA
Consultant	:	-
Project Name	:	Concrete Batch Plant
Project Location	:	Dammam, KSA

SAMPLE DETAILS

Sample Supplier	:	Precon
Sample Description	:	300 x200 x 400 (Hollow Insulation)
Sampling Date	:	14 September 2024
Lab. Reference	:	M-CON-11626
Sampled by	:	Dixter

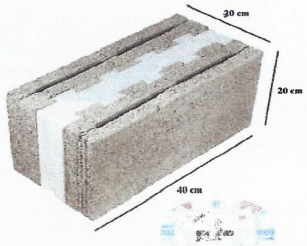
REPORT DETAILS

Report No.	:	TR-11626
Date Reported	:	18 September 2024
Sales Order No.	:	130
CRN	:	175
Lab Location	:	Jubail

TEST/METHODS DETAILS

Date Tested	:	17 September 2024
Sampling Method	:	ASTM C 140 – 12a
Test Method	:	ASTM C 140 – 12a
Tested by	:	Dixter

S/N	Lab Ref. No.	DATE TESTED	LOAD kN	GROSS AREA mm^2	GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE GROSS COMPRESSIVE STRENGTH N/mm^2 (MPA)	NET AREA mm^2	NET COMPRESSIVE STRENGTH N/mm^2 (MPA)	AVERAGE NET COMPRESSIVE STRENGTH N/mm^2 (MPA)
A	M-CON-	17/09/24	470.6	79,860	5.89	5.96	71,600	6.57	6.65
B	M-CON-	17/09/24	467.2	79,860	5.85		71,600	6.52	
C	M-CON-	17/09/24	478.5	79,860	5.99		71,600	6.68	
D	M-CON-	17/09/24	488.4	79,860	6.12		71,600	6.82	



REVIEWED BY (Lab Supervisor)	APPROVED BY (Quality Manager)
Abhimanyu	Fayaz M.Yousuff

AL MONGITH AL AWAL LABORATORY FOR CONSTRUCTION
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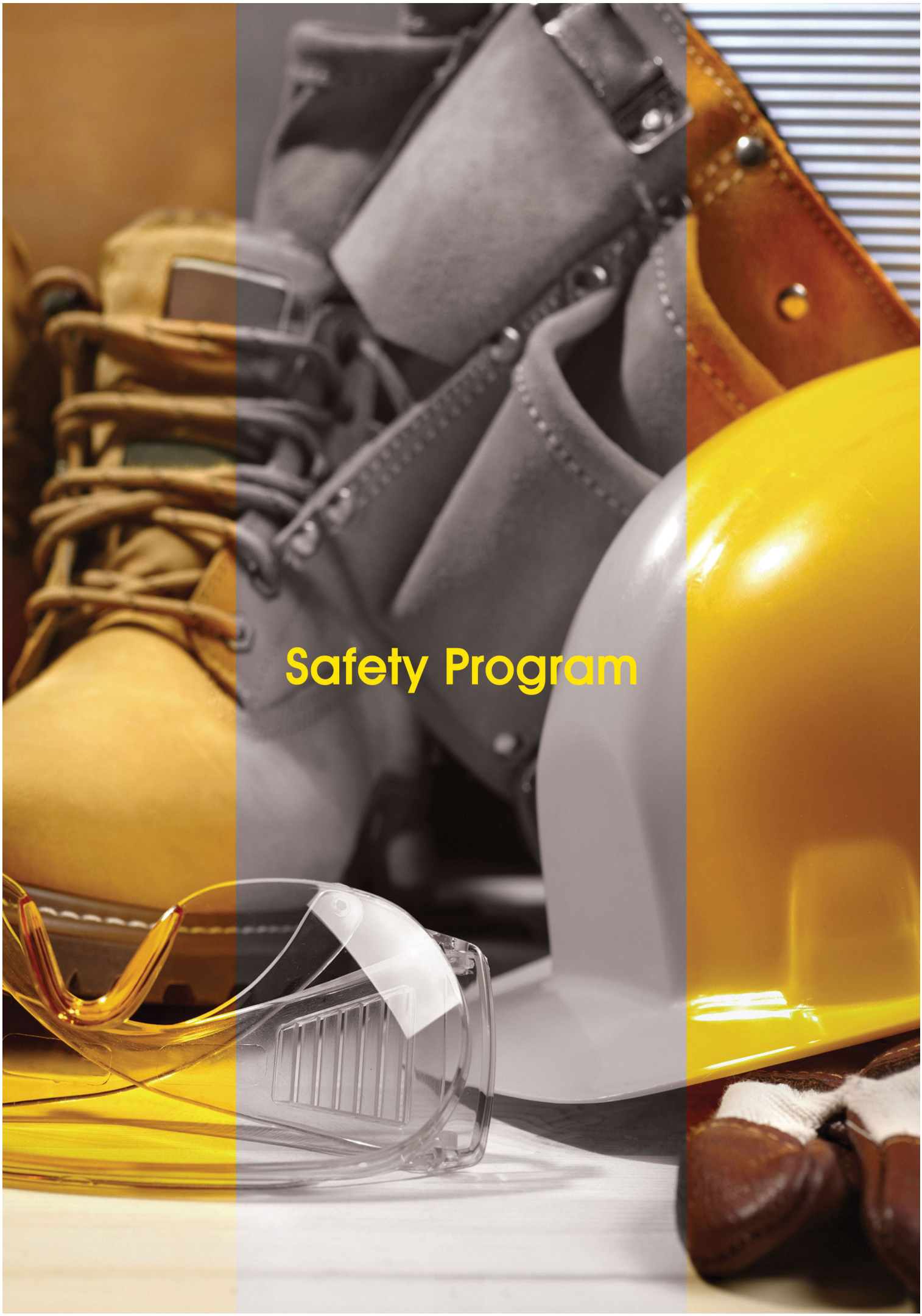

Safety Program

1. PROTECTION OF WORKERS

Appropriate "protective" clothing is available and is to be used when necessary in particular :

- Safety helmets are to be worn at all times.
- Safety boot / shoes are to be worn at all time.
- Safety harnesses are to be used as directed.
- Personal engaged in special tasks, such as welding, are to use appropriate protective equipment.
- Edge protection is to be erected as necessary to ensure that workmen are not exposed to an unacceptable level of risk.
- All ladders and scaffold towers are to be inspected prior to use. No-damaged items are to be used. Mobile scaffold towers are only to beused on a firm level base in accordance with the manufactures instruction. Ladders are always to be secured near the top or "footed" by a man at the bottom.

Exceptionally adverse weather conditions

The interpretation of what is exceptionally adverse weather and whether work-should be suspended due to there being an unacceptable level of risk either to the workmen or of doing damage to equipment or the structure resets with the senior person on site. The following must be considered.

- The effect of high winds on the safe handling of elements.
- The effect of bad visibility (i.e. fog or sandstorm) on the ability of crane operators to see the load or the banks – man.
- The effect of rain on working surface, ladders, scaffolds and the like.
- The danger of a lightning strike. Normally work should be stopped above ground level when lightning is in the vicinity

Protection of third parties.

- The area where pre-cast erection is in progress should be designated as a prohibited area to all persons other than those involved in the erection.
- Loads should not be hoisted over areas where other persons are working.
- On the occasions that it is necessary to unload elements from vehicles parked on the public rod arrangement must to keep the public outside the potential danger area.
- Any visitors to the site are to be forced to take the same safety precautions as those persons working there.

FIRE PROTECTION AND PREVENTION PROGRAM

A. INTRODUCTION

1. an cause serious damage to plant and property and serious injury or loss of life to personnel. Good housekeeping plays an important role in Fire Prevention Program.

2. To help prevent the outbreak or continued combustion of fire, the following rules at the Work site will be observed:

a) All Hot work shall be under strictly controlled conditions.
b) Electrical outlets shall not be overloaded.
c) All smoking operatives will smoke in designated areas only.
d) Non-sparking tools and equipment will be used in areas of high risk.
e) Good housekeeping practices will be followed.
f) Flammable gas cylinders will be stored in an upright position and segregated cylinders. from oxygen.
g) Flammable substances will be stored in a segregated area.
h) Faulty oxygen or acetylene hoses and gauges will be discarded.
i) hot work is completed or during any period of meal breaks, oxygen and acetylene will be turned off at the gauges.

j) Clothes or rags will not be hung to dry in the vicinity of heaters.
k) Oily rags will not be discarded in containers with other materials.
l) After welding and burning operations, the surrounding areas will be inspected for smoldering materials.

B. FIRE PROTECTION EQUIPMENT

• temporary buildings, yards, storage areas and the workplace will have strategically located fire extinguishers.
• Designated fire wardens will inspect the extinguishers monthly and record the findings.
• Empty or damaged extinguishers will be placed.
• The correct type of extinguishers will be placed to the adjacent materials or substances.
• Types of extinguishers are:

• Water – used for solid organic materials, wood, paper, cloth, etc.
• Dry Powder – used for solid materials or liquids, oils, electrical equipment.
• Carbon Dioxide can be used on all kinds of fires.

NOTE: Do not use water spray on electrical equipment.

C. FIRE PRIVENTION RULES

1. Combustible materials will not be placed near sources of ignition.
2. All employees will have familiarization courses on the use of extinguishers, fire prevention and protection techniques.
3. Emergency telephone numbers will be conspicuously posted at worksite and all employees will be familiar with these numbers and Alarm procedure.
4. Sufficient extinguishers of correct type will be conspicuously posted at worksite and all employees will be available for use.

5. Emergency Exits will be sign posted and well visible without any obstructions.
6. All plants and equipment will carry fire extinguishers.
7. Extinguishers will be placed in close proximity to "Hot Work" operation.
8. Housekeeping will be undertaken on regular basis.

D. EMERGENCY PROCEDURES IN CASE OF FIRE

1. If any operative discovers a fire, he should:

- Raise the alarm.
- Attempt to extinguish the fire using local extinguishers.
- Be sure that the Exit is at your rear and escape is always possible.
- If the fire escalates, vacate the area.
- Await Emergency Services and direct them to the location of the fire.
- Never attempt to be a "Hero". This can possibly put other personnel at risk in attempting your rescue.

2. To help prevent the outbreak or continued combustion of fire, the following rules at the Work site will be observed:

a) All Hot work shall be under strictly controlled conditions.
b) Electrical outlets shall not be overloaded.
c) All smoking operatives will smoke in designated areas only.
d) Non-sparking tools and equipment will be used in areas of high risk.
e) Good housekeeping practices will be followed.
f) Flammable gas cylinders will be stored in an upright position and segregated cylinders. from oxygen.
g) Flammable substances will be stored in a segregated area.
h) Faulty oxygen or acetylene hoses and gauges will be discarded.
i) hot work is completed or during any period of meal breaks, oxygen and acetylene will be turned off at the gauges.

2. Upon hearing the alarm or being informed by word of mouth, all personnel will:

- Shut down all equipment.
- Vacate their place of work.
- Proceed immediately to their Allocated AssemblyPoints .
- A roll call is affected and each person is accountedfor .
- No person returns to work until "All clear" is given .

E. LEU PERSONNEL IN EMERGENCY FIRE RESPONS

1. Incident Liaison Officer – Project Manager. Incident Liaison
2. Assistant – SafetyOfficer. Liaison Officer Site /Gen. Office –
3. ConstructionSupervisor. EmergencyMarshals – Construction
4. Supervisors.
5. Wardens Foreman.

F. DUTIES

1. INCIDENT LIAISON OFFICER

- Report to AL-HOSAN Control Center (Project Manager's Office / Reception).
- Liaise with Client Emergency Controller.
- Amalgamate accountability of all personnel.

2. INCIDENT LIAISON ASSISTANCE

- COLLECT DAILY TIME SHEET (ALL PERSONNEL).
- Report to AL-HOSAN Control Center.
- Standby for further duties.

3. SITE LIAISON OFFICER –SITE/GENERAL OFFICE

- Report to Incident Control Center.
- Monitor Events – Liaise with AL-HOSAN Central Office as required.
- Ensure two-way radio is operational.

4. SWITCHBOARD OPERATOR

- Standby switchboard for duties as required.

5. NURSE

- Standby switchboard for duties as required.

6. EMERGENCY MARSHALS

- Report to Assembly Point (after obtaining copies of daily time sheets)
- Register all attendees. Report AL-HOSAN Control Center when headcount is completed.
- Standby – Await further instructions.

NOTE: A two-way operational radio should be carried.

7. DESIGNATED WARDENS

- Tour site-ensure that all operatives leave their place of work (after switching off all engines).
  Confirm that site is clear – report to Emergency Marshals.
- Standby for further instructions.
- Maintain orderly control of workforce at assembly point.

8. SUB-CONTRACTOR SUPERVISOR

- Ensure all operatives leave site (after switching all engines).
- Report with them to assembly point.
- Standby for further instructions.

EMERGENCY LOCATIONS, TELEPHONE NUMBERS & RADIO CHANNELS:

- AL-HOSAN Emergency Control: Main Site Office –Radio
- AL-HOSAN Main Office (Off Site) – 341 2561
- Assembly Points: To be determined dependent upon site layout and pro cedures. The Assembly Points will be indicated by signs and explained to the employees.

FIRST –AID AND MEDICAL SERVICES PLAN

A. POLICY

1. It is the Company Policy to provide first-aid facilities, medical, and emergency services for employees who incur occupational injuries or illnesses.

2. The first-aid facilities on this project will be provided in accordance with Saudi Labor and Workmen Law Chapter-7, (Protection of S0cial Services, Labor & Workmen Law-Articles 134, 135 & 136)

B. RESPONSIBILITIES

1. The responsibility for evaluation the scope of first-aid medical services required to meet the safety and health needs of the project is shared by the company's Safety Department, Project Manager and the company's Chief of Client.

2. The determination of First Aid and Medical Services ements shall be completed no later than the pre-job conference .

1. The above listed items will be furnished in proportion to the number of workmen.

2. Signs will be posted in conspicuous places in the work sites to indicate the location of

3. The first-aid cabinet and the name of the workman in charge of first-aid facility.

4. The first-aid cabinet will be placed under the supervision of an attendant, who shall ensure that the cabinet is well stocked at all times.

5. The first-aid cabinet shall contain the first-aid supplies only.

G. FIRST – AID POSTING

1. Contractor shall post notices indicating the following:

a. The name of the person who is in charge of the first-aid cabinet.
b. The hospital to which any injured person, that requires hospital treatment is to be sent.
c. The telephone number of the doctor or the first-aid attendant employed by the company.
d. The emergency telephone number to be called for assistance.

H. EMERGENCY TRANSPORTATION

1. A jobsite dedicated emergency vehicle (ambulance) will be provided since in the near vicinity there is no immediate means of communication to take the injured or seriously ill person to the nearest designated hospital or clinic. The ambulance will be properly marked and adequately supplied.

2. The ambulance will be equipped, as a minimum, with the following supplies:
A suitable type of stretcher Portable oxygen Splint for bone fractures Bandages/rubber tourniquet Sterile washbasin .

3. The Project Manager will appoint drivers for emergency duties and their names will appear on the designated competent person list.

I. FIRST-AID RECORDS

A Site Register is maintained to keep the medical records of all injuries treated.

Pictures Of Some Products


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SINOTRUK


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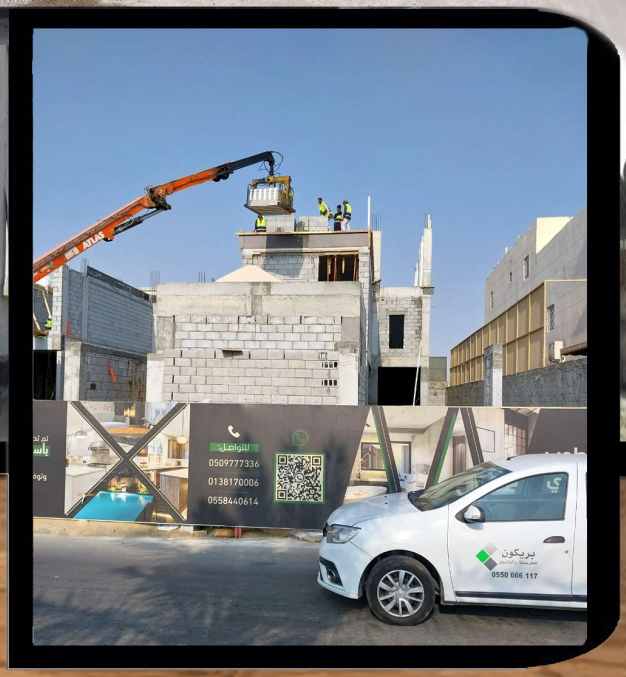
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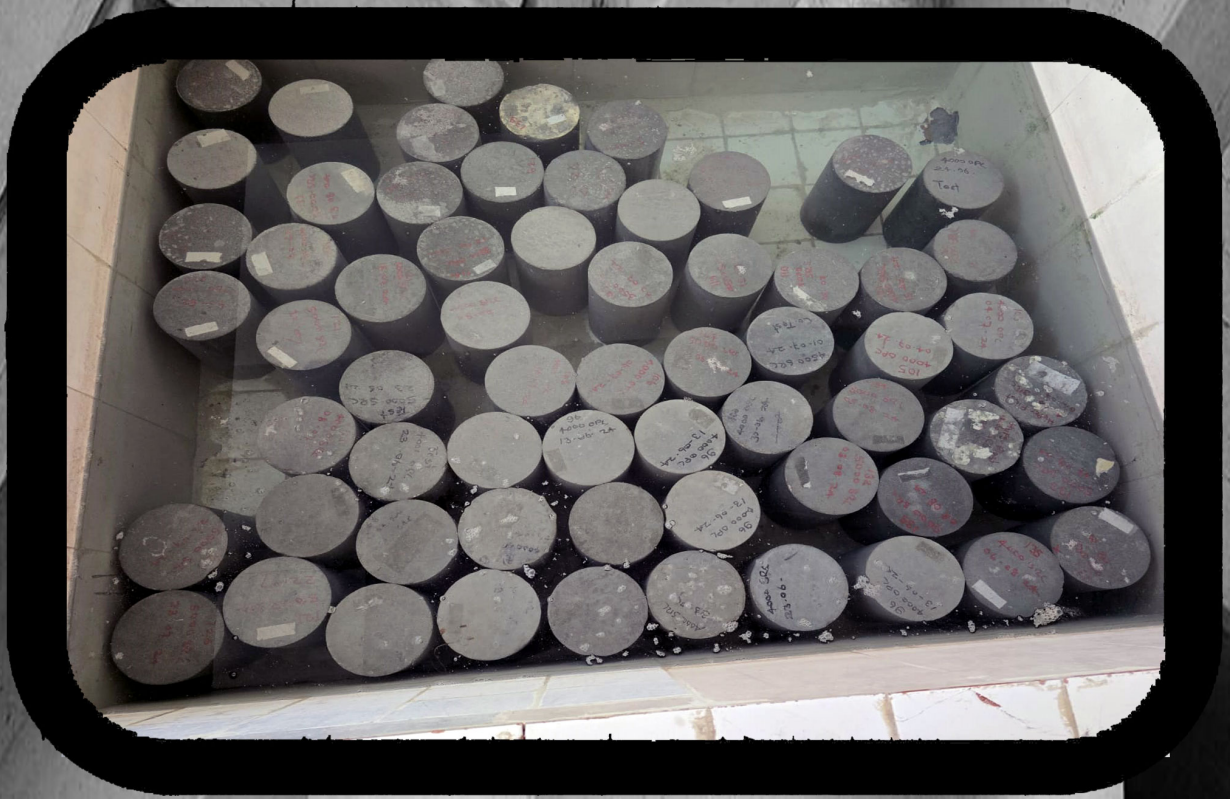

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