LETTER OF TRANSMITTAL

То	Н	Houssam Eldine Jaamour Block Factory							
Attention	Mr.Mohieddine Kalo Mobile: 50445-04-16 /Email: kalomohieddine@gmail.co								
Referenc	e Te	Test Reports							
Project: Shuaibah 3 wa			or desclinator plant IMD	Report Date	30 October 2023				
			er desalinaton plant - IVVP	Job No.	245090				
Attached	hereto ar	e rep	oort as follows:	•					
Copies	Lab No	o.	Description		No of Tests				
1	0038 /1-2 Determination of Dimension, Unit Weight, Water Absorption		02 Set						
1 0038 /1-2 Compressive Strength Determination		rmination	02 Set						

REMAI	RKS:		 -	

SIGNED

For FUGRO-SUHAIMI LTD

Irfan Zaib Khan

Asst. Lab. Manager, Jeddah

Form No. MAT.1.03

Issue. 01

Rev. 02 Date: 01 October 2020

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FUGRO-SUHAIMI LTD.

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Saudi Arabia - E-mail : fsljeddah@fugro-suhaimi.com



COMPRESSIVE STRENGTH OF MASONRY HOLLOW BLOCK - TEST REPORT

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Client	Hous	sam Eldine Jaamour Block Factory	Report Date	30 October 2023
Project	Shua	ibah 3 water desalinaton plant - IWP	Job No.	245090
Material	Non-Load Bearing Medium Weight Concrete Masonry Hollow Blocks Three Holes Closed at Bottom with Groove		Lab No.	0038-1
Client Cor	ntact	Mr.Mohieddine Kalo Mobile: 50445-04-16 Email: kalomohieddine@gmail.com	Sampling Date	26 October 2023
Sampling Method	plan/	ASTM C 140	Date Tested	28 October 2023
Source		Job Site	Sample By:	Client

Fugro-Suhaimi Ltd. (FSL) has performed standard laboratory testing on six concrete masonry hollow blocks delivered to FSL laboratory on 26 October 2023 with labeled identification by HEJBF. The testing was carried out in accordance with the procedure outlined in ASTM C 140 "Standard Methods of Sampling and Testing Concrete Masonry Units and Related Units". The test result and pertinent information are as follows:

A. Dimensions

Sample No.	1	2	3	ASTM C-129 Specification limit
Length (mm)	400	401	400	No dimension shall differ by more than
Width (mm)	200	201	200	±3.2 mm from the nominal specified
Height (mm)	200	200	201	dimension

B. Water Absorption & Density

Sample No.	1	2	3	Average	ASTM C-129 Specification limit
Water Absorption (kg/m³)	151	154	154	153	-
Density (kg/m³)	1766	1770	1750	1762	1680 to 2000 (Medium Weight)

C. Compressive Strength

Sample No.	Weight, Net		Maximum	Compressive Strength (Based on Net Area)		
	gram	Area	Load (kN)	Test Result		
		(cm ²)		MPa	Psi	
4	14818	425.8	168	3.95	572	
5	14796	425.8	195	4.58	664	
6	14841	425.8	214	5.03	729	
		Average	Compressive Strength	4.5	655	
	ASTM C-1	29 Requireme	nt (Average of 3 Units)	4.14	600	

1.The test results indicated that the concrete hollow blocks conform to the density and Compressive strength Remarks requirements of ASTM C-129 specification for Non-load-Bearing Concrete Masonry Units. 2. The test result relate only to the items tested

Tested by: Dilawar

Dilawar Khan, CTTA # 0998

Materials DivisionApproved by: Irfan Zaib Khan, CTTA 0360 Senior Lab Supervisor, Jeddah Western Prov. Lab - 54

Asst. Lab. Manager, Jeddah

Form No. MAT.2.10

Reviewed by:

Issue. 01

Rev. 03

Date: 01 May 2021

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(012) 257 4907 - Fax. :



COMPRESSIVE STRENGTH OF MASONRY HOLLOW BLOCK - TEST REPORT

	1 (110			
Client	Hous	sam Eldine Jaamour Block Factory	Report Date	30 October 2023
Project	Shua	ibah 3 water desalinaton plant - IWP	Job No.	245090
Material		Load Bearing Medium Weight Concrete Masonry w Blocks Three Holes Closed at Bottom with Groove	Lab No.	0038-2
Client Con	tact	Mr.Mohieddine Kalo Mobile: 50445-04-16 Email: kalomohieddine@gmail.com	Sampling Date	26 October 2023
Sampling Method	plan/	ASTM C 140	Date Tested	28 October 2023
Source		Job Site	Sample By:	Client

Fugro-Suhaimi Ltd. (FSL) has performed standard laboratory testing on six concrete masonry hollow blocks delivered to FSL laboratory on 26 October 2023 with labeled identification by HEJBF. The testing was carried out in accordance with the procedure outlined in ASTM C 140 "Standard Methods of Sampling and Testing Concrete Masonry Units and Related Units". The test result and pertinent information are as follows:

A. Dimensions

Sample No.	1	2	3	ASTM C-129 Specification limit
Length (mm)	400	400	400	No dimension shall differ by more than
Width (mm)	100	99	99	±3.2 mm from the nominal specified
Height (mm)	200	200	199	dimension

B. Water Absorption & Density

Sample No.	1	2	3	Average	ASTM C-129 Specification limit
Water Absorption (kg/m ³)	203	205	218	209	-
Density (kg/m³)	1625	1596	1601	1607	Less than-1680 (Light Weight)

C. Compressive Strength

Sample	Weight,	Net	Maximum		ive Strength Net Area)	
No. gram		Area Load		Test Result		
		(cm ²)	(kN)	MPa	Psi	
4	9564	294.9	176	5.97	865	
5	9671	294.9	177	6.00	870	
6	9662	294.9	229	7.77	1126	
	-	Average	Compressive Strength	6.6	954	
	ASTM C-129 Requirement (Average of 3 Units)				600	

1.The test results indicated that the concrete hollow blocks conform to the density and Compressive strength Remarks requirements of ASTM C-129 specification for Non-load-Bearing Concrete Masonry Units. 2. The test result relate only to the items tested

Tested by: Dilawar

> Dilawar Khan, CTTA # 0998 Reviewed by:

Senior Lab Supervisor, Jeddah

Materials Division proved by: Western Prov. Lab - 54

Irfan Zaib Khan, CTTA 0360 Asst. Lab. Manager, Jeddah

Form No. MAT.2.10

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