



AL MANARATAIN
AL MANARATAIN COMPANY AND ALI AL SHAAB GROUP W.L.L.

M.I.B INSULATION BLOCK (IMSI)



NEW!

M.I.B MANARATAIN INSULATION BLOCK :

The M.I.B Manaratain Insulation Block is a combination of unique block design and insulating inserts that enables the system to be highly energy efficient to utilize its own thermal mass properties. This unique design creates cells that the Expanded Polystyrene (EPS) inserts are specifically molded to fill.

M.I.B 8" BLOCK SPECIFICATION :

Dimensions	400 × 200 × 200 mm
Dimensional Tolerance	Category D1
Compressive Strength	7 N/mm ² & 12.5 N/mm ²
Weight	22.5 Kg
Gross Dry Density	1400 Kg/m ³
K-Value	0.2276 (W/m.K)
Standards	BS EN 771 - BS EN 772

M.I.B ADVANTAGES :

- ✓ Load bearing.
- ✓ Excellent heat insulation.
- ✓ Easy electrical pipe installation.
- ✓ Easy reinforcement installation.
- ✓ Easy to fix.
- ✓ Eco friendly.



EWA
مينة الكهرباء والماء
Electricity & Water Authority

إدارة ترشيد الكهرباء والماء
Electricity & Water Conservation Directorate

شهادة تسجيل منتج عزل حراري Registration Certificate of Thermal Insulation Product (Ministerial Order No. 149/2018)

Certificate No:	TIP 22059	رقم الشهادة:
Registration Date:	29/11/2022	تاريخ الإصدار:
Issued to:	Al Manaratain Co. & Ali AlSheab Gro. Kingdom of Bahrain	أصدرت إلى:
Product Name:	8" IMSI Al Manaratain Block	اسم المنتج:
Application For:	Wall	الاستخدام في:
Manufacturer Name:	Al Manaratain Co. & Ali AlSheab Gro. Kingdom of Bahrain	اسم المصنع:
Valid Until:	30/11/2024	تاريخ الصلاحية:

Product Details / تفاصيل المنتج	
Description	400x200x200mm - Concrete Masonry Insulation Block with two layers of Expanded Polystyrene sheet between the three layers of concrete.
Density (kg/m ³)	Concrete: 2320 / Expanded polystyrene: 28.86
Min. Thickness (mm)	200
Thermal Conductivity (k) (W/m ² ·C)	0.2276
Thermal Transmittance / Conductance (C) (W/m ² ·C)	1.138 Non-Standalone System**

Conditions:

- The above thermal insulation product is to be used as described above, provided the overall U-value for the wall does not exceed 0.57 W/m²·C.
- The owner should take the necessary precautions to ensure proper storage and installation of the product to protect it from moisture and direct sunlight.
- The owner of this product is responsible of ensuring that the product is carried out by him or an approved applicator, for supplying all the accessories associated with it, and for any consequences that may result from the use of this product.
- The owner of this product is responsible of ensuring that the expanded polystyrene sheets are properly fit and tightly installed between the layers of concrete during manufacturing phase and subsequent transportation, storage and installation of the product.
- All documents published by the owner for the above product should not contradict with the thermal conductivity value stated in this certificate.
- This approval is granted for thermal insulation only. Any additional approvals / permissions required should be sought from the concerned authorities.
- The TIU should not be held responsible for any consequences that may result from the use of this product.
- The TIU reserves the right in future to request additional documents and to withdraw its approval of the above if any variations are noticed.

** Product above shall be supported by other certified insulation materials so; that it can achieve the required U-Value.



Electricity Conservation Section

حماية الموارد الطبيعية والبيئة من خلال ترشيد الكهرباء والماء
Conserving natural resources and environment by saving electricity & water

Tel : (+973) 17905000

Fax : (+973) 17213552

Page 2 of 2

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شهادة تسجيل منتج عزل حراري

Registration Certificate of Thermal Insulation Product

(Ministerial Order No. 149/2018)

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TIP 22059

رقم الشهادة:

Registration Date:

29/11/2022

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Issued to:

Al Manartain Co. & Ali AlSheab Gro.
Kingdom of Bahrain

أصدرت إلى:

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8" IMSI Al Manartain Block

اسم المنتج:

Application For:

Wall

الاستخدام في:

Manufacturer Name:

Al Manartain Co. & Ali AlSheab Gro.
Kingdom of Bahrain

اسم المصنع:

Valid Until:

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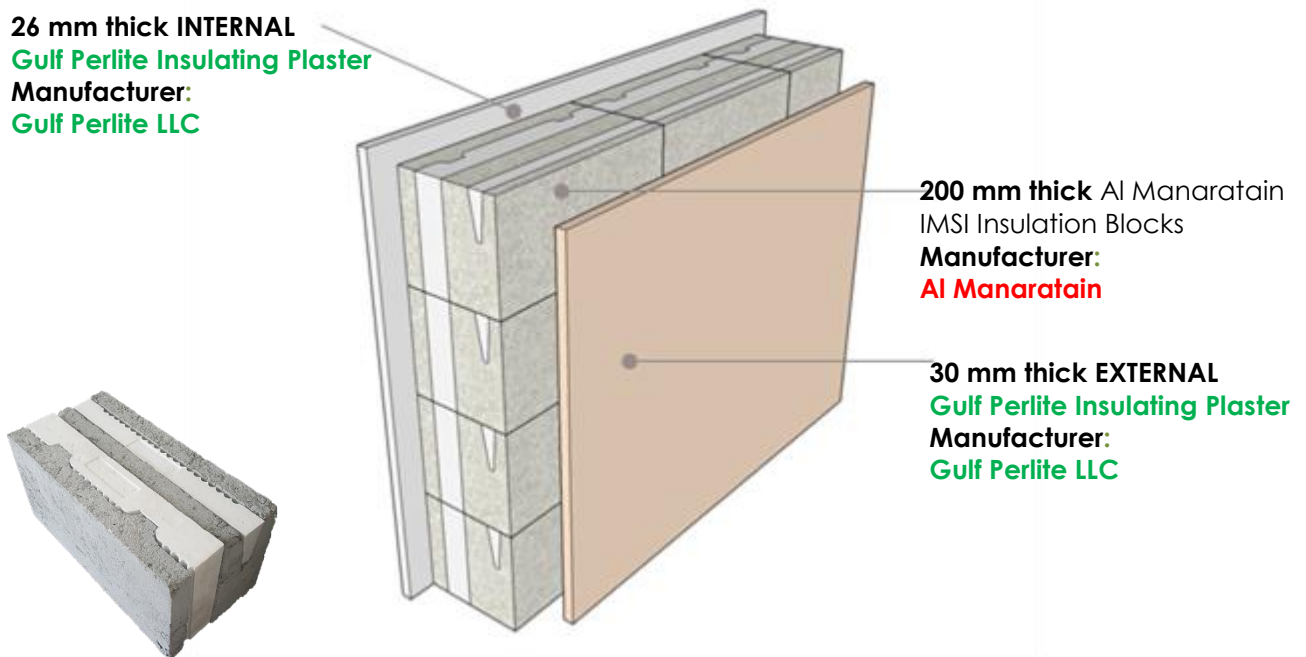
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Electricity Conservation Section

EWA-APPROVED, COST-EFFECTIVE AL MANARATAIN INTEGRATED MASONRY SYSTEM INTERNATIONAL (IMSI) BLOCKWORK with GULF PERLITE INSULATING PLASTERS

26 mm thick INTERNAL
Gulf Perlite Insulating Plaster
Manufacturer:
Gulf Perlite LLC




200 mm thick Al Manaratain
IMSI Insulation Blocks
Manufacturer:
Al Manaratain

30 mm thick EXTERNAL
Gulf Perlite Insulating Plaster
Manufacturer:
Gulf Perlite LLC

Thermal Transmittance (U-Value) Calculation:

No.	Description of materials	Thickness (d) m	λ W/m.K	R m ² .K/W
1	R _i (Interior surface)	-	-	0.121
2	Gulf Perlite Insulating Plaster Internal	0.026	0.0800	0.325
3	8'' Al Manaratain IMSI Blockwork with EPS Insertions	0.200	0.2276	0.879
4	Gulf Perlite Insulating Plaster External	0.030	0.0800	0.375
5	R _o (Outside surface)	-	-	0.059
Total thermal resistance for materials used in Wall (RT):				1.759

U-Value = 0.569 W/m² °K

Kingdom of Bahrain		مملكة البحرين
Electricity & Water Authority		هيئة الكهرباء والماء
Electricity & Water Conservation Directorate		إدارة ترشيد الكهرباء والماء

• *Thermal Transmittance (U-Value) for external Walls with Blocks*

Sr. No.	Description of materials used	Density kg/m ³	Thickness (I) m	r $\frac{m.k}{w}$	R $\frac{m^2.k}{w}$	Notes
1-	Ext.Surface Resistance				0.0590	
2-	External Perlite Plaster	408	0.030	12.500	0.375	K=0.08
3-	IMSI Concrete Block - MIB	1200	0.200	4.394	0.879	K=0.2276
4-	Internal Perlite Plaster	408	0.026	12.500	0.325	K=0.08
5-	Int.Surface Resistance				0.1210	
6-						
7-						
8-						
9-						
10-						
11-						
12-						
13-						
Total thermal resistance for materials used in Wall (R _T):					1.759	

U-Value = 0.569 W/m.² °C

Client's Name
& Signature

In charge Engineer
Name & Signature

Engineering Office
Stamp & Signature

Electricity & Water Authority Approval

Date of Approval



مذكرة
MEMORANDUM

Ref.: MED/C&RS/M-312/2022
Date: 25th May 2022

To : Directors,
SEPPD, SEOMD, RPDD,
RPMD, BMD, CPD, SPD

From : Director,
Materials Engineering Directorate

Material Compliance Report (MCR)

We wish to advise that *Al Manaratain Company & Ali Alsheab Group WLL (Bahrain)* had requested us to assess their *Concrete Masonry Blocks strength grade 7.5MPa* manufactured by *Al Manaratain Company & Ali Alsheab Group WLL (BAHRAIN)* for consideration in MoW projects.

Following MED standard procedure for assessing materials/products, please find attached for your information Material Compliance Report (MCR 4700/2022) for the aforementioned products.

This addition/renewal will be uploaded on our Pre-Qualification List for Materials which is available and updated monthly in our Ministry's Portal.

For any further clarification, please do not hesitate to contact the undersigned or the Chief of Consultancy and Research Section at 1781 2450.

Regards,

Amal Abdulnabi Khalaf

cc : Section Chief CRS / MAS File 5584 - CEMCG



الحائزة على جائزة العالمية
للمتميزين في تنفيذ الإستراتيجية

2009

ص.ب: ٥، المنامة، مملكة البحرين

P.O. Box 5, Manama, Kingdom of Bahrain



Consultancy & Research Section

Material Compliance Report (MCR) 4700/2022 (For Ministry of Works projects)

Material Detail:	Concrete Masonry Blocks Strength Grade 7.5MPa (50% RAK Aggregate + 50% Recycled Concrete Aggregate - Grade 1) • For Models as per Attachment 1
Manufacturer:	Al Manaratain Company & Ali Alsheab Group W.L.L., Bahrain
Applicant:	Al Manaratain Company & Ali Alsheab Group W.L.L. P. O. Box 926 Al Burhama, Manama, Kingdom of Bahrain

Following MED standard procedures for assessment and technical evaluations of the above Material, as to compliance with the Ministry of Works' specifications and requirements, we advise as per the following details:

i. Compliance with Relevant Standards & Specifications

✓	Acceptable
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ii. Adequacy for use in Ministry of Works projects

✓	Suitable for use with conditions. Please refer to comments below.
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iii. Comments

- This approval does not cover the Insulation/Thermal, Acoustic and Fire Resistance Properties.
- This approval does not cover the insulation material (inserts) for Insulated Blocks.
- This product is permitted only to non-load bearing walls only and shall be utilized only on walls without steel embedment or reinforcement.
- The product when tested should adhere to **EN 771-3:2011** and shall always conform to the Standard Specifications for Construction Works - 2019 of the MOW projects.
- This compliance report does in no way relieve the supplier or contractor of their obligation with respect to obtaining the necessary approval of the concerned Project Engineer for a specific project.
- The material will be subject to factory inspection and periodic quality control assessment by the Materials Engineering Directorate personnel.

Note:

This Report is valid for maximum of 1 year(s) from the date of this Report **unless otherwise stated** or there is a change / revision in the material technical specifications, manufacturing process or relevant Standards & Specifications requirements.

Signed & stamped by,

Date: 25th May 2022

MAS File 5584 / CEMCG

Director, Materials Engineering Directorate



الحائزة على جائزة القائمة العالية
للمتميزين في تنفيذ الإستراتيجية
2009

ص.ب. ٥، المنامة، مملكة البحرين

P.O. Box 5, Manama, Kingdom of Bahrain



Concrete Masonry Blocks Strength Grade 7.5MPa, Manufactured & Supplied by Al Manaratain Company & Ali Alsheab Group W.L.L.

MAS 5584 - MCR 4700/2022
Attachment 1- List of Approved Models

NO.	PRODUCT NAME / DESCRIPTION
1	Hollow Blocks Sizes: <ul style="list-style-type: none">(100/150/200/250/300) mmx200mmx400mm(90/140/190/290) mmx190mmx390mm
2	Half Blocks Sizes: <ul style="list-style-type: none">200mmx200mmx200mm & 190mmx190mmx190mm
3	Solid Blocks Sizes: <ul style="list-style-type: none">200mmx200mmx400mm
4	Insulation Blocks Sizes: <ul style="list-style-type: none">Sandwich Blocks: (200/300) mmx200mmx400mmSlotted Blocks: (200/300) mmx200mmx400mmMIB Blocks: 200mmx200mmx400mm
	---Nothing Follows---

Ministry of Works, Municipalities Affairs and Urban Planning



Director Materials Engineering Directorate



الغائزة على جائزة القائمة العالمية
للمتميزين في تنفيذ الإستراتيجية



BUREAU VERITAS
Certification



AL MANARATAIN COMPANY AND ALI AL SHAAB GROUP W.L.L

HO: SEHLA ,P.O. BOX 926, MANAMA, KINGDOM OF BAHRAIN

*This is a multi-site certificate, additional site(s) are listed on the next page(s)
Bureau Veritas Certification Holding SAS – UK Branch certifies that the
Management System of the above organisation has been audited and found
to be in accordance with the requirements of the management system
standards detailed below*

ISO 9001:2015

Scope of certification

**MANUFACTURE AND SUPPLY OF CONCRETE HOLLOW BLOCKS, CONCRETE INSULATION BLOCKS,
INTERLOCK PAVING, HYDRAULIC PRESS PRODUCTS (KERB STONE, EDGES, PAVING SLABS),
RECONSTITUTED STONE, READY MIX CONCRETE, WASHED SAND AND CRUSHER PRODUCTS.
DESIGN, MANUFACTURE, SUPPLY AND INSTALLATION OF PRECAST CONCRETE**

Original cycle start date:	19-AUGUST-2014
Expiry date of previous cycle:	18-AUGUST-2020
Recertification Audit date:	13-JULY-2020
Recertification cycle start date:	09-SEPTEMBER-2020

Subject to the continued satisfactory operation of the organization's Management System,
this certificate expires on: **18-AUGUST-2023**

Certificate No. MER20.712/UQ

Version 01 Revision date: 09-SEPTEMBER-2020

Certification body address: **5th Floor, 66 Prescott Street, London E1 8HG, United Kingdom**
Local office: **Bureau Veritas Bahrain Flat No. 11, Building No. 574, Road 1111, Tubli
711, Kingdom of Bahrain.**



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Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation. To check this certificate validity please call: **+973 17877574**