



Gypsemna Co. (L.L.C.)

(A Jamal Al Ghurair Group Company)

Company Profile : Jamal Al Ghurair Group

Mr. Jamal Al Ghurair belongs to the highly respected "Al Ghurair" family business houses in the United Arab Emirates, which has established diversified business enterprises in sectors like Aluminum, Cement, Sugar, Real Estate, Retail, Shopping Malls, Packaging, Mineral Water, Insurance, Banking etc. Mr. Jamal Al Ghurair's ventures consist of several successful Industrial Units, including Al Khaleej Sugar (a world class sugar refinery). Mr Jamal Al Ghurair has currently set up two large Industrial units under Gypsemna Co. (LLC) and Porcellan Co. (LLC), for the manufacture of Gypsum Plaster Board and Porcelain Tiles respectively. The **Jamal Al Ghurair Group** is on its way to become a major player in the Building Materials and Construction Industry covering Porcelain Tiles, Gypsum Plaster Board, Gypsum Plasters, Clay Blocks and similar products in the region.

Our Values:

We at *Gypsemna Co. (LLC)*, believe in

- Integrity
- Concern for the Environment
- Health and safety
- Respect for individual
- Commitment to Customer Satisfaction
- Improved Communication and Team Work

Our **Quality Policy** is to manufacture and supply Gypsum based products to the building construction industries that satisfy the customers' need and expectations of high quality, excellent features and value of their money.

We are committed to providing consistently the highest quality of products and services to our customers by way of using the latest technology of manufacturing and advance knowledge of the products and their features complying with relevant International Standard Specifications. Our name will signify reliability and quality to the countless professionals who use our products and services. We aim to become a market leader in our field of products and to be 'Flag Bearer' in introducing the best value added products and service to the construction sector.

Our quest for continuous improvement, open communication about the strategic directions, objectives and achievements thereof within the organization will ensure that every body works dedicatedly to meet the company's goal with strict adherence to the applicable statutory and regulatory requirements

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The **Gypsemna** Plant is located in Industrial City of Abu Dhabi (ICAD-II), near Mussafah, Abu Dhabi. Located in a plot of 320,000 m², the plant and machinery for this plant is supplied and commissioned by GRENZEBACH BSH GmbH, Germany.

The plant is based on a vertical roller mill of Pfeiffer, Germany, using natural gas as fuel, to produce calcined gypsum (β -hemi-hydrate) with a capacity of 60 tons per hour. With a high setting belt speed of 90 meters per minute, the plant is able to produce 6,500 m² of plaster boards per hour. The process uses a 12 deck gas fired dryer to produce Gypsemna Plaster boards. The **Gypsemna** Gypsum Plaster Board are then stacked for dispatch through two stations. The production capacity of the plant is 50 million m² per year, which makes it the largest in the Region and one of the largest plaster board plants in Asia.

I. Product Range:

Thickness (mm)	Length (mm)	Width (mm)	Longitudinal Edge Type
8.0	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
9.0	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
9.5	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
12.0	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
12.5	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
12.7	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
15, 18	1800 - 4500	600, 900, 1200 & 1350	TE, SE, BE, RE, THRE
25	1800 - 4500	600	TE, SE, BE, RE, THRE

TE - Tapered Edge, SE - Square Edge, BE - Bevelled Edge, RE - Rounded Edge, THRE - Tapered Half Round Edge

II. Gypsemna Regular -Gypsum Plaster Board Specifications:

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SI No	Parameter	Specifications	Remarks
1	Width Variation (mm)	± 2	
2	Board Length Variation (mm)	0, -4	
3	Board Thickness Variation (mm)	± 0.4	
4	Caliper Range (mm)	± 0.4	
5	Square-ness (mm)	± 3	
6	Machine Direction Flexural Strength (Minimum in Newton)		Testing performed according to ASTM C- 473
	9.5 mm	356	
	12.5 mm	489	
	15 mm	667	
7	Cross Direction Flexural Strength (Minimum in Newton)		Testing performed according to ASTM C- 473
	9.5 mm	133	
	12.5 mm	147	
	15 mm	178	
8	Hardness (Minimum in Newton)	67	As per ASTM C- 473
9	Edge difference (mm) (Maximum)	0.8	
10	Nail Pull Strength (Minimum in Newton)		
	9.5 mm	267	
	12.5 mm	356	
	15 mm	400	
11	Edge peel (mm) (Maximum)	20	
12	End peel (mm) (Maximum)	20	
13	S - Cut (mm) (Maximum)	60	
14	Humidified Deflection (mm) Minimum		Testing performed according to ASTM C-1396
	9.5 mm	48	
	12.5 mm	32	
	15 mm	16	
15	Water absorption in %	Not Applicable	

Gypsemna Gypsum Plaster Board Types:

- Gypsemna Regular Gypsum Plaster Board
- Gypsemna Moisture Resistant Gypsum Plaster Board
- Gypsemna Fire Wall Gypsum Plaster Board (Fire Resistant Board)

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Gypsemna Regular Gypsum Plaster Board:

Gypsemna Regular Gypsum Plaster Board consists of non combustible core of Gypsum encased in heavy duty Kraft paper liner on either side of the Gypsum core. Provides a better Sound Insulation, Thermal Insulation & due to its unique behaviour it provides a good fire protection when exposed to fire. *Gypsemna* Regular Gypsum Plaster Board can be fixed to timber, metal framing and masonry works for ceilings partitions and Wall linings, providing a high quality and economical finish to any Interior projects.

Board Colour:

Ivory face paper
Brown reverse side paper.

Product Standards:

ASTM C 1396
EN 520 (DIN 18 180/BS 1230 Part I)

Features & Benefits

- *Gypsemna* Regular Gypsum Plaster Board are suitable for wide range of decorative finishes.
- *Gypsemna* Regular Gypsum Plaster Board are light in weight and easy to install.
- The Gypsum core will not support combustion or transmit temperatures greatly in excess of 100⁰ C until completely calcined.
- Suitable for internal constructions of partitions and ceilings application to give better fire protection, sound insulation and thermal insulation
- Expansions and contractions under normal atmospheric conditions are negligible.

Gypsemna Moisture Resistant Gypsum Plaster Board:

Gypsemna Moisture Resistant Gypsum Plaster Board consists of Gypsum core mixed with water resistant additives and special paper, to enhance moisture protection in the interiors walls and ceilings which are exposed to high degree of moisture.

Board Colour:

- Green Colour Face Paper
- Brown reverse side paper

Product Standard:

ASTM C 630/1396M

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***Gypsemna* Co. (L.L.C.)**

EN 520 – Type A and H1
(BS 1230 part I)

Features and Benefits:

- *Gypsemna* Moisture Resistant Gypsum Plaster Board are developed for wet area application such as Bathrooms, washrooms, kitchens etc.,
- *Gypsemna* Moisture Resistant Gypsum Plaster Board are light in weight and easy to install.
- *Gypsemna* Moisture Resistant Gypsum Plaster Board will not absorb more than 5% of water.
- Suitable for internal constructions of partitions and ceilings application to give better fire protection, sound insulation and thermal insulation
- *Gypsemna* Moisture Resistant Gypsum Plaster Board will give the similar performance to a standard board for fire rating or sound insulation.

***Gypsemna* Fire Wall Gypsum Plaster Board (Fire Resistant Board)**

Gypsemna Fire Wall Gypsum Plaster Board (Fire Resistant Board) consists of gypsum core mixed with fire resistance additives, and firmly bonded to paper, increasing its strength and providing fire resistance property. During fire unless the water of crystallization has been liberated the temperature of the material adjacent to or in contact with unexposed side cannot exceed 100 deg. C. Once the Gypsum layer is completely calcined the residue continues to act as an insulating layer for as long as it remains intact. The addition of glass fiber in the Gypsum core improves the cohesive properties and fire integrity performance.

Board colour:

- Light Red Colour Face Paper
- Brown reverse side paper

Product Standard:

ASTM C36/1396M
EN 520 – Type F

Features and Benefits

- Expansion and contraction under normal atmospheric conditions is negligible.
- Provide greater fire resistance compared that of a regular wallboard.
- Light weight easy to install and cost effective material.
- The addition of glass fibers in the Gypsum core improve the cohesive properties and fire integrity performance.
- It can be used as a lining to contribute to fire resistance and sound insulation of various building elements, including partitions, ceiling and Columns encasement. etc.

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III. Gypsemna Gypsum Plaster Board Properties and Advantages:

Physical Appearance:

Gypsemna Gypsum Plaster Boards have smoother surface than concrete walls which makes it easier to decorate by paint, wall paper and wall tiles.

Fire protection:

Gypsemna Gypsum Plaster Board linings provide good fire protection due to the unique behavior of the non-combustible gypsum core in high temperatures. The *Gypsemna* Wall Board systems are generally built to withstand the fire for the design period.

**Thermal Insulation:
EN 12524**

The core of our *Gypsemna* Gypsum Plaster Board, is non combustible and provides thermal insulation. It does not absorb heat, and the coefficient of heat is lower than other decorative materials such as concrete, brick, glass, tiles etc, hence *Gypsemna* Gypsum Plaster Boards can give better prevention from heat transfers. Buildings with centralized air conditioning, it is important to keep the cold air from escaping, Hence a good thermal insulation blocks the external heat from penetrating cooled areas thus keeping the cooling costs down and it also help to conserve energy and reduce heating costs.

Thermal Properties of *Gypsemna* Regular Gypsum Plaster Board:

Board Thickness (mm)	Thermal Properties		
	Resistance in K.m ² /W	Conductance in W/m ² .K	Specific Heat in J/kg.K
9.5	0.058	17.2	1090
12.5	0.079	12.6	1090
15	0.85	11.8	1090

**Acoustic Performance:
EN ISO140-3 and EN ISO-717-1**

Building Acoustics is a science of controlling noise in buildings and also deals in minimizing the sound transmission from one space to another. *Gypsemna* Gypsum Plaster Board system provides good sound attenuation property. This can be used as sound insulation system in cinemas, theatres, hotels, factories, etc. optimum sound insulation can be achieved by carefully selecting *Gypsemna* Wall board systems.

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Gypsemna Gypsum Plaster Board Advantages:

Our Gypsum Plaster Board provides following advantages over traditional block masonry systems.

Parameters	Masonry Wall System	Gypsemna Gypsum Plaster Board System
Weight	179 Kg/m ²	24 – 80 Kg/m ²
Fire Protection	60 minutes fire resistance	30 – 180 minutes
Acoustic performance	35 – 40 db	35 – 80 db
Speed of construction	14 m ² /day	40 – 50 m ² /day (3 times faster)
Loading and storage	Difficult because heavy	Easy because lighter
Wall surface	It can only be smooth with skilled labor And cracks can appear	Smooth and crack free
Heat Insulation	High heat transmission (K = 0.85 Watt/m°C)	Four times lesser heat transmission (K = 0.19 Watt/m°C)
Joint treatment	Nil	Gypsemna Jointing tape/Jointing Compound
Quality of Material	Difficult to control, various source	Standard quality control system

Gypsemna Gypsum Plaster Board linings can save a potential amount of fortune as compared to traditional methods of construction of internal load bearing partitions and ceilings systems. Savings can be achieved in terms of construction design, completion time and return on investment.

IV. Installation:

General:

It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipments, etc. The following notes are intended for general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

Handling:

Manual off-loading of this product should be carried out with care to avoid unnecessary strain.

Cutting:

This product may be cut using a Plaster Board saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes for switch or socket boxes should be cut out, using a utility saw or a sharp knife, before the boards are fixed. When cutting boards, power and hand tools should be used with utmost care. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used.

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Fixing:

Fix boards with decorative side out to receive joint treatment or a skim plaster finish.

Gypsum Plaster Board weights:

All weights mentioned on *Gypsemna* Gypsum Plaster Board product stacks are approximate.

Mechanical handling:

The dimensions of the pallet vary depending on the product size. To avoid potentially overloading a lift truck, it is important that any effect on load centers is considered.

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