



جيسمنا
gypsemna





THE MAKING OF A LEGEND

Gypsemna is a state-of-the-art company envisioned and promoted by the Jamal Al Ghurair group. Within a short period, it has not only become a leader in the Building Materials and construction industry in UAE, but also in the neighboring countries. Presently Gypsemna Plasterboards are exported to 15 countries.

The defining objective behind this ambitious project was to set up a world class plasterboard factory in Abu Dhabi that manufactures high quality gypsum plasterboards that are inspired by technology and innovation.

Located in ICAD-II, near Musaffah, Abu Dhabi, this sprawling 320,000m² plant boasts of a production capacity of 6500 m²/hr or 50 million m² per year.

Our aim is to be a World Scale Producer of quality gypsum plasterboard and allied products with the objective of exceeding the needs and expectations of our valued customers and end-users.

MILESTONES THAT HAVE LAID THE FOUNDATION OF OUR JOURNEY

Land allotment : 19th April, 2006

Factory Main Building Completion : June 2008

Completion of Erection : March 2009

Trial Production Commenced : 6th June, 2009

Commercial Production : 21st June, 2009

ISO 9001:2008 - Certification awarded : 23rd December, 2009

Dubai Civil Defense Approval for Fire Rated Systems : 10th October, 2010



EVERYDAY BRINGS THE POSSIBILITY OF A NEW ACHIEVEMENT

OUR VISION

To be the best value provider of quality Gypsum Plasterboard and Allied Products.

OUR MISSION

To raise the benchmark in area of Gypsum Plasterboard production and exceed customer expectations by coming up with innovative solutions for all their needs.

OUR VALUES

We are driven ahead in our objectives by

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

OUR QUALITY POLICY

We aim to manufacture and supply Gypsum based products to the Building Material and Construction industries that satisfy the customers' need and expectations for high quality, excellent features, safety and value for money. We are committed to providing the highest quality of products and services to our customers by way of using

- | The latest technology in manufacturing
- | Advanced knowledge of the products and their features
- | Complying with relevant International Standard Specifications and practices

Our goal is to become a market leader in our field of products and to be the pioneer in introducing the best value added products and services to the construction sector.

VARIETY IS THE SPICE OF LIFE

OUR OFFERINGS

Gypsum Plasterboard is the main product of the company. Besides Gypsemna manufactures Calcined Gypsum Powder (Stucco) for its customers in the industrial sector. In addition, as a complete solution provider of gypsum plasterboard based partition and ceiling systems, Gypsemna also offers metal profiles, jointing compound and other accessories, for the convenience of its customers.

The plasterboard products manufactured by Gypsemna can broadly be classified into following categories :

REGULAR (RG)
MOISTURE RESISTANT (MR)
FIREWALL (FW)
MOISTURE RESISTANT AND FIREWALL (MRFW)
TUFF (TF)
GLASS MAT - EXTERNAL (GM)

In addition, we are also constantly introducing new varieties of boards to make the construction process as smooth, easy and convenient as possible. Our other products include Plasters and Drywall accessories.

Liner	Thickness (mm)	Length (mm)	Width (mm)	Longitudinal Edge Type*
Paper	7**	1800 – 4500	600,1200,1219 & 1350	TE, SE
	8	1800 – 4500	600,1200,1219 & 1350	TE, SE
	9	1800 – 4500	600,1200,1219 & 1350	TE, SE
	9.5	1800 – 4500	600,1200,1219 & 1350	TE, SE
	12	1800 – 4500	600,1200,1219 & 1350	TE, SE
	12.5	1800 – 4500	600,1200,1219 & 1350	TE, SE
	15	1800 – 4500	600,1200,1219 & 1350	TE, SE
	18	1800 – 4500	600,1200,1219 & 1350	TE, SE
	25	1800 – 3600	600	SE
	Glass mat	13	1800 – 2438	1200 & 1219
16		1800 – 2438	1200 & 1219	SE

TE - Tapered Edge, SE - Square Edge

* Other edges and sizes can be produced on request

** Can produced as a special product on request



REGULAR (RG)

Gypsemna Regular Gypsum Plasterboard is made up of a non-combustible and mechanically stable aerated gypsum core, which is encased in heavy duty Kraft paper liner on either side. It can be fixed to timber, metal framing and masonry works for ceilings, partitions and wall linings, providing a high quality and economical finish to interior projects.

BOARD COLOUR

Face - Ivory
Reverse - Brown

PRODUCT STANDARDS

ASTM C 1396 / C1396 M
EN 520 Type A (DIN 18180 / BS 1230 Part 1, Type 1)

ADVANTAGES

Suitable for wide range of decorative finishes | Light in weight and easy to install | Suitable for internal constructions of partitions and ceilings | Provides fire protection, sound insulation and thermal insulation.

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
8	5.80	350	150	300	0.04
9.5	6.80	400	170	350	0.05
12.5	8.80	550	250	475	0.06
15	10.5	650	300	550	0.08
18	12.5	825	375	700	0.09

MOISTURE RESISTANT (MR)

Gypsemna Moisture Resistant Gypsum Plasterboard has the inherent properties of regular plasterboard and an accrued moisture resistance. The property is due to specific additives such as water repellent agents in the non-combustible, mechanically stable aerated gypsum core. This core is encased in heavy duty Kraft paper liner on either side. These boards inhibit moisture absorption in the gypsum core when used for lining interiors walls and ceilings which are exposed to high degree of moisture.

BOARD COLOUR

Face - Green
Reverse - Green

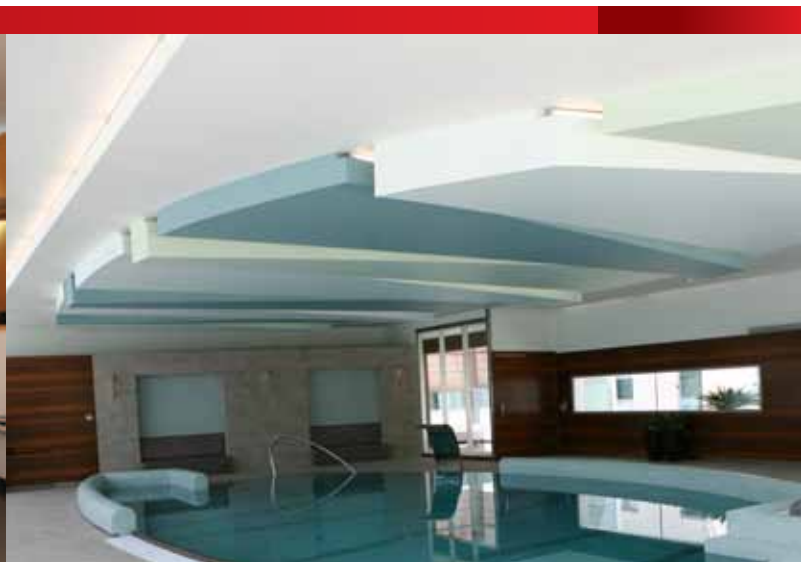
PRODUCT STANDARDS

ASTM C 1396 / C 1396 M
EN 520 Type A and H1 (DIN 18180 / BS 1230 Part 1, Type 3)

ADVANTAGES

Suitable for wet area application such as bathrooms, washrooms, kitchens etc. | Light in weight and easy to install | Offers superior moisture resistance | Water resistant for short periods of wet exposure until covered with water resistant paint or ceramic tiles | Similar to the regular board for fire rating or sound insulation.

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
9.5	7.2	425	175	400	0.05
12.5	9.4	550	275	550	0.06
15.0	11.3	650	350	600	0.08



FIRE WALL (FW)

Gypsemna Firewall Gypsum Plasterboard consists of gypsum core mixed with glass fiber chopped strands and fire resistant expansion additives, firmly bonded to heavy duty Kraft paper liner on either side, increasing its strength and providing fire resistance property. The addition of glass fiber and fire resistant additives in the gypsum core improves the cohesive properties and significantly enhance the fire integrity performance compared with regular gypsum plasterboard.

BOARD COLOUR

Face - Pink
Reverse - Pink

PRODUCT STANDARDS

ASTM C 1396 / C 1396 M Type X
EN 520 Type I, F (DIN 18180 / BS 1230 Part 1, Type 5)

ADVANTAGES

Provide greater fire resistance and sound insulation compared that of a regular gypsum plasterboard | Light in weight and easy to install | Can be used as a lining to contribute to fire resistance and sound insulation of various building elements.

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
12.5	10.5	650	300	750	0.05
15	12.6	800	400	850	0.06
18	14.7	925	550	1100	0.07

MOISTURE RESISTANT AND FIREWALL (MRFW)

Gypsemna Moisture Resistant Firewall Gypsum Plasterboard has the inherent properties of firewall plasterboard and an accrued moisture resistance. This property is due to specific additives such as water repellent agents in the non-combustible, mechanically stable, fire retarding gypsum core. Thus providing two advantages in a single board. This core is encased in heavy duty Kraft paper liner on either side.

BOARD COLOUR

Face - Green
Reverse - Pink

PRODUCT STANDARDS

ASTM C 1396 / C 1396 M Type X
EN 520 Type I, F and H1 (DIN 18180 / BS 1230 Part 1, Type 3, 5)

ADVANTAGES

Developed for fire prone and high humidity areas | Ready to take variety of decorative finishes
Light weight and easy to install | Suitable for internal construction, ceilings, partitions and columns | Offers very good fire resistance and sound insulation | Used as shaftwall liners

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
12.5	10.6	650	325	750	0.05
15	12.7	800	400	850	0.06
25*	20.3	1550	675	NA	0.10

*Core board



TUFF (TF)

Gypsemna Tuff Gypsum Plasterboard is made up of non-combustible, mechanically stable and fire retarding high density gypsum core, encased in very heavy duty Kraft paper liner on either side.

It is a special purpose gypsum plasterboard designed for use in walls or partitions and that are required to have superior impact strength, breaking strength, fire resistance and sound insulation compared with all other types of plasterboard.

BOARD COLOUR

Face - Yellow
Reverse - Yellow

PRODUCT STANDARDS

ASTM C 1396 / C 1396 M Type X
EN 520 Type D,F,I and R (DIN 18180 / BS 1230 Part 1, Type 5)

ADVANTAGES

Developed for high impact resistance partitions | Ready to take variety of decorative finishes | Light weight and easy to install | Suitable for use in areas subject to crowd pressure and impact damage | Offers very good fire resistance and sound insulation

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
12.5	11.1	700	350	550	0.05
15	13.3	881	447	725	0.06

GLASS MAT - EXTERNAL (GM)

A specially developed product for external applications, these boards are both moisture and fire resistant due to the special additives in the gypsum core, that is sandwiched between glass matt liner on both sides.

BOARD COLOUR

Face - Blue
Reverse - Grey

PRODUCT STANDARDS

ASTM C 1177 / C 1177 M Type X
EN 15283 Part 1

ADVANTAGES

Offers superior strength, outstanding resistance to environmental damage and excellent bonding surface for EIFS | Enhanced mold and mildew resistance | Ready to take variety of decorative finishes | Light weight and easy to install | Suitable for external use with suitable rendering | Offers extremely good fire resistance and sound insulation

Thickness	Board Weight	Flexural Breaking Load		Nail Pull Resistance	R value
		Longitudinal	Traverse		
mm	Kg/m ²	N	N	N	m ² K/W
13	10.7	750	450	525	0.05
16	13.1	900	550	650	0.06



PLASTERS

STUCCO (CALCINED GYPSUM POWDER)

Gypsemna Stucco (Hemihydrate - $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$) produced by calcination of natural gypsum powder is also called as Gypsum Plaster, Plaster of Paris, Calcined Gypsum. This material is a fine powder, and is available in bags and bulk.

GYPSEMNA - STUCCO SPECIFICATION*	
Hemi hydrate as $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$: 80 to 84 %
Initial Setting Time	: 10 - 12 min
Final Setting Time	: 15 - 20 min
Chloride	: <100 ppm
Residual Gypsum	: <5%
Bulk density (free flowing)	: 760 kg/m ³
Bulk density (compacted)	: 1250 kg/m ³

*The above results for fresh stucco.

ADVANTAGES

Compressive strength – 10 N/m² as opposed to ASTM std 5.2 N/m² | Used in the manufacture of AAC blocks and other special purpose gypsum blocks | Light weight, easy to work with, offers good adhesion and finish for interior decoration | Has remarkable strength, fire resistance properties and acoustic resistant.

GYPSEMNA METAL PROFILES AND DRYWALL ACCESSORIES

Gypsemna has wide range of drywall accessories such as

- METAL PROFILES
- FIXING PRODUCTS
- JOINT FILLER
- JOINT TAPE
- FIRE AND ACOUSTIC SEALANT

METAL PROFILES

Gypsemna Metal profiles provide the steel frame work to the plasterboards ceilings, partitions and wall linings. They are light weight and are cold rolled from hot dipped galvanized steel. Gypsemna Metal profiles complies with ASTM C 645 (Non structural steel framing members) and ASTM C 653 (for galvanization).



FIXING PRODUCTS

The Gypsemna range of fixing products for drywall applications, provide secure and simple fixing. The range includes

- | Screws are designed for board-to-metal, metal-to-metal fixing
- | Anchors, nails etc.
- | Special fixing products such as phoenix hangers, head brackets etc.

JOINT FILLER

Gypsemna Maxicote - General Purpose Jointing Compound is a ready-mixed quick drying filler with a superior finishing quality specifically for gypsum board and other inert extenders.

PRODUCT DATA

- | Copolymer binders, Precisely graded marble fillers
- | Dilution with water, if required
- | Average consumption of 1.75 kg / m² per mm thickness
- | 1.75 kg per litre density, Negligible shrinkage, Non-toxic
- | 28 kg bucket packaging, 12 months storage, (protected conditions) in original unopened containers

APPLICATION

Maxicote is designed to provide thin skim coats, to embed and to finish joint tapes, corner tapes as well as corner beads and other reinforcement-and finishing profiles. Maxicote is, in particular, recommended to be used with Gypsemna Gypsum Plasterboards and Systems.

JOINT TAPE

Gypsemna Drywall Tape is self adhesive tape with fine and strong fiber glass mesh. Its unique cross-fiber construction resists stretching to prevent cracking in drywall joints.

PRODUCT DATA

Size : 50mm x 90m in rolls, Mesh : 9 x9 , GSM : 65

ADVANTAGES

- | Joint finish is simpler and quicker
- | Eliminates bedding coat and provide smooth finished joints
- | Ideal drywall joint & patching small holes and cracks
- | No tearing, shrinking, stretching or bubbling

FIRE AND ACOUSTIC SEALANT

Selleys ProSeries Fireblock* is a low modulus, non-slumping, PSA Composite sealant suitable for Fire and Acoustic rated constructions. It is halogen free and isocyanate free for safer use. It is packaged as 900 gm sausages.

*Gypsemna is Authorised Agent for Selleys Products.



DRYWALL SYSTEMS

Gypsemna has developed various systems for drywall partitions, ceilings and wall liners. It has also specialized systems for cinema walls/ceilings and high rise walls. Gypsemna offers customized solutions to cater to the various requirements of Acoustic and Fire ratings for Drywall Systems.

CERTIFICATION

Gypsemna is the first drywall manufacturing company to obtain the Dubai Civil Defence Approval (DCD Approval) for Fire Rated Systems.

Exova Certification & Inspection Services Ltd. (ECI) has technically certified Gypsemna's Drywall Partition Systems. The above certifications are issued based on initial type testing of product samples taken from the place of manufacture or the open market, initial inspection and ongoing surveillance of the factory production control and quality management system and re-assessment of the relevant performance characteristics of the products via testing or inspection.

Exova Certificate of Conformity No.	Scheme	Product References
02A-10.0001.02-FX	Fire Safety Product Listing Scheme (Dubai)	G2RG150, G2MR150, G2RG125, G2MR125
02A-10.0005.02-FX	Fire Safety Product Listing Scheme (Dubai)	G1FW125, G1MRFW125, G2FW125, G2MRFW125
02A-10.0006.01-FX	Fire Safety Product Listing Scheme (Dubai)	G2GM130

WHY CHOOSE GYPSEMNA?

Gypsemna Gypsum Plasterboards have smoother surfaces than concrete walls which makes it easier to decorate by paint, wall paper and wall tiles. They provide good fire protection due to the unique behavior of the non-combustible gypsum core in high temperatures. The Gypsemna Plasterboard Systems are generally built to withstand the fire for the design period.

The core of our 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. Also it keeps the cold air from escaping which makes it an automatic choice for centralised airconditioned building. Another added advantage is that it helps conserve valuable energy and reduces heating costs.

Gypsemna Gypsum Plasterboard 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 Plasterboard Systems.



Parameters	Masonry Wall System	Gypsemna Gypsum Plasterboard 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 & Storage	Difficult because heavy	Easy because Lighter
Wall Surface	It can only be smooth with Skilled Labor and Crack can Appear	Smooth and Crack Free
Heat Insulation	High heat transmission (K = 0.85 Watt/m ² C)	Four times lesser heat transmission (K = 0.19 Watt/ m ² C)
Joint Treatment	Nil	Gypsemna Jointing Type / Jointing Compound
Quality of Material	Difficult to Control, Various Source	Standard Quality Control System

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 back muscle strain.

CUTTING: This product may be cut using a Plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes switch or socket boxes should be cut out, using a jab 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.

FIXING: Fix boards with decorative (face) side out to receive joint treatment or as a skim plaster finish.

PLASTER BOARD WEIGHTS: All weights mentioned on Gypsemna Plaster Board product system are approximate.

MECHANICAL HANDLING: The dimensions of the stack vary depending on the product size. To avoid potentially overloading a forklift truck, it is important that any effect on load centers is considered.

STORAGE: Boards must be stored flat and in dry condition. Practice good housekeeping and stock rotation. Support bearers under a stack of boards must not be more than 400 mm apart.



GENERAL ASTM1396 AND EN 520 SPECIFICATIONS TABLE FOR VARIOUS THICKNESS

SL. NO	PARAMETERS	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification	ASTM 1396:2006 Specification	EN 520:2004 Specification
1	Thickness	8 mm		9.5 mm		12.5 mm		15 mm		18 mm		25			
2	Board Thickness (in mm)	± 0.4	± 0.5	± 0.4	± 0.5	± 0.4	± 0.5	± 0.4	± 0.5	± 0.4	± 0.7	± 0.8	± 1		
3	Taper Thickness (in mm)	5.71 to 7.49	5.5 to 7.4	7.21 to 8.99	7 to 8.9	10.21 to 11.99	10.00 to 11.90	12.71 to 14.49	12.50 to 14.40	15.71 to 17.49	15.5 to 17.40	-	-		
4	Taper Width (in mm) (45 to 50 Internal)	-	40 to 80	-	40 to 80	-	40 to 80	-	40 to 80	-	40 to 80	-	40 to 80	-	40 to 80
5	Board Length (in mm)	± 6.0	0, - 5	± 6.0	0, - 5	± 6.0	0, - 5	± 6.0	0, - 5	± 6.0	0, - 5	± 6.4	0, - 5		
6	Board Width (in mm)	0, -3,0	0,-4	0, -3,0	0,-4	0, -3,0	0,-4	0, -3,0	0,-4	0, -3,0	0,-4	0, -3,2	0,-4		
7	End Squareness (in mm)	±3.2	≤ 2.5	±3.2	≤ 2.5	±3.2	≤ 2.5	±3.2	≤ 2.5	±3.2	≤ 2.5	±3.0	≤ 2.5		
8	Flexural Strength (in Newton)														
	A) Perpendicular / Longitudinal to Panel Length (As per ASTM C473)	≥ 293		≥ 356		≥ 480		≥ 623		≥ 716		≥ 1006			
	Perpendicular / Longitudinal to the Panel Length (As per EN 520)		≥ 344		≥ 400		≥ 550		≥ 650		≥ 774		≥ 1075		
	B) Parallel / Transverse to the Panel Length (As per ASTM C473)	≥ 112	≥ 134	≥ 133	≥ 160	≥ 175	≥ 210	≥ 210	≥ 250	≥ 253	≥ 302	≥ 350	≥ 420		
9	Nail Pull Resistance (in Newton)	≥ 225	-	≥ 267	-	≥ 352	-	≥ 389	-	≥ 422	-	Not applicable	-		
10	Hardness (in Newton)														
	A) Core	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-		
	B) Core end	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-		
	C) Edge Hardness	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-	≥ 49	-		
11	Water absorption & Surface Water absorption for MR board (in%) (After 2 Hours Immersed)														
	A) Water Absorption for MR board	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25	< 5	H1 = < 5 H2 = < 10 H3 = < 25
	B) Surface Water absorption for MR board	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6	< 1.8	< 1.6	< 1.8		
12	Humidified Deflection (in mm) (After 48 Hours)	NA	-	≤ 48	-	≤ 33	-	≤ 15	-	≤ 15	-	Not applicable	-		

Disclaimer: Gysemma endeavors to ensure that all the information it gives is accurate and correct to the best of its knowledge, the designer or other recipient of the information must satisfy himself that the information is appropriate to the specific application. Gysemma expressly disclaims any and all liability as to any results obtained or arising from any use of product or reliance on such information.



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