



Issue No. 03

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PLASTERBOARD



INTRODUCTION

Mada Gypsum Company (MGC) is the leading producer of lightweight systems and solutions in the Kingdom of Saudi Arabia. At the forefront of innovation and design, MGC has developed a range of Lightweight Plasterboard Solutions for the building industry.

The high performance plasterboard systems distinguish MGC as the only local producer for lightweight systems that can meet the rigorous requirements.

With a large distribution network spread across the Gulf region, MGC can provide technical solutions, fast delivery and project site support that is unrivalled.

Specifying and installing a complete Mada system will qualify the project for our Full System Warranty and onsite technical support throughout the build process.



PLASTERBOARD PLUS ADVANTAGES



Lightweight construction,
easy & fast installation



Sound & thermal insulation



Fire protection



Easy finishing



Improved strength & sag
resistant



Mold resistance



PLUS RANGE

Mada Plus Regular



Product Description

Mada Plus Regular Plasterboards are the lightweight solution for most standard internal wall and ceiling applications. The high purity gypsum core utilizes fiberglass for increased strength and improved sag-resistance, which is then sheeted with the highest quality paper lining for a superior finish.

Field of Application

- Residential buildings.
- Commercial buildings.
- Hospitals.
- Airports.
- Educational settings.
- Light industrial and manufacturing projects.

Product Description

- Length: Standard length is 2400mm, 2440mm & 3000mm. Special length is 1800mm to 4500mm.
- Width: 1200mm & 1220mm.
- Thickness: 12.5mm, 16mm. Special thickness: 15mm.
- Edge: Tapered, Square, Beveled.
- Color: Ivory / Grey.

System Specification

Tested and certified as per ASTM E119.
Tested as per ASTM E90/ASTM E413.
Civil Defense Approval: KSA, UAE & Bahrain.

Technical Specification

Parameters	Application Standard	Plasterboard Thickness		
		12.5mm	15mm*	16mm
Weight (kg/m ²)	± 0.2	9.2	11.6	11.6
Board Density (kg/m ³)	Minimum	720	760	713
Flexural Strength (N)	ASTM C1396	≥ 476	≥ 585	≥ 654
(Longitudinal)	EN 520	≥ 550	≥ 650	≥ 688
Flexural Strength (N)	ASTM C1396	≥ 157	≥ 193	≥ 207
(Transverse)	EN 520	≥ 210	≥ 250	≥ 269
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 374	≥ 390
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

PLUS RANGE

Mada Plus Moisture Resistant



Product Description

Mada Plus Moisture Resistant Plasterboards are the lightweight solution for most standard internal wall and ceiling applications where Moisture Resistant properties are required. The high purity gypsum core utilizes fiberglass for increased strength and improved sag-resistance, which is then sheeted with the highest quality paper lining for a superior finish.

Field of Application

- Residential buildings.
- Commercial buildings.
- Hospitals.
- Airports.
- Educational settings.
- Light industrial and manufacturing projects.

Product Characteristics

- Length: Standard length is 2400mm, 2440mm & 3000mm. Special length is 1800mm to 4500mm.
- Width: 1200mm & 1220mm.
- Thickness: 12.5mm, 16mm. Special thickness: 15mm.
- Edge: Tapered, Square, Beveled.
- Color: Green / Grey.

System Specification

Tested and certified as per ASTM E119.

Technical Specification

Parameters	Application Standard	Plasterboard Thickness		
		12.5mm	15mm*	16mm
Weight (kg/m ²)	± 0.2	9.8	12.5	12.5
Board Density (kg/m ³)	Minimum	768	820	769
Flexural Strength (N) (Longitudinal)	ASTM C1396 EN 520	≥ 476 ≥ 550	≥ 585 ≥ 650	≥ 654 ≥ 688
Flexural Strength (N) (Transverse)	ASTM C1396 EN 520	≥ 157 ≥ 210	≥ 193 ≥ 250	≥ 207 ≥ 269
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 374	≥ 390
Water Absorption (%)	ASTM C1396 EN 520		≤ 5 H1	
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

PLUS RANGE

Mada Plus Fire Resistant



Product Description

Mada Plus Fire Resistant Plasterboards are the lightweight solution for most standard internal wall and ceiling applications where Fire Resistant properties are required. The high purity gypsum core utilizes fiberglass for increased strength and improved sag-resistance, which is then sheeted with the highest quality paper lining for a superior finish.

Field of Application

- Residential buildings.
- Commercial buildings.
- Hospitals.
- Airports.
- Educational settings.
- Light industrial and manufacturing projects.

Product Characteristics

- Length: Standard length is 2400mm, 2440mm & 3000mm. Special length is 1800mm to 4500mm.
- Width: 1200mm & 1220mm.
- Thickness: 12.5mm, 16mm. Special thickness: 15mm.
- Edge: Tapered, Square, Beveled.
- Color: Pink / Grey.

System Specification

Tested and certified as per ASTM E119.
Tested as per ASTM E90/ASTM E413 and BS EN ISO 717-1.
Tested as per BS 5234-2:1992 Strength & Robustness.
Tested and certified as per EN 1364-2.
Civil Defense Approval: KSA, UAE & Bahrain.

Technical Specification

Parameters	Application Standard	Plasterboard Thickness		
		12.5mm	15mm*	16mm
Weight (kg/m ²)	± 0.2	10.7	13.9	13.9
Board Density (kg/m ³)	Minimum	840	913	856
Flexural Strength (N) (Longitudinal)	ASTM C1396 EN 520	≥ 476 ≥ 550	≥ 585 ≥ 650	≥ 654 ≥ 688
Flexural Strength (N) (Transverse)	ASTM C1396 EN 520	≥ 157 ≥ 210	≥ 193 ≥ 250	≥ 207 ≥ 269
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 374	≥ 390
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

PLUS RANGE

Mada Plus Fire & Moisture Resistant



Product Description

Mada Plus Fire & Moisture Plasterboards are the lightweight solution for most standard internal wall and ceiling applications where Fire and Moisture Resistant properties are required. The high purity gypsum core utilizes fiberglass for increased strength and improved sag-resistance, which is then sheeted with the highest quality paper lining for a superior finish.

Field of Application

- Residential buildings.
- Commercial buildings.
- Hospitals.
- Airports.
- Educational settings.
- Light industrial and manufacturing projects.

Product Characteristics

- Length: Standard length is 2400mm, 2440mm & 3000mm. Special length is 1800mm to 4500mm.
- Width: 1200mm & 1220mm.
- Thickness: 12.5mm, 16mm. Special thickness: 15mm.
- Edge: Tapered, Square, Beveled.
- Color: Green / Grey.

System Specification

Tested and certified as per ASTM E119.

Technical Specification

Parameters	Application Standard	Plasterboard Thickness		
		12.5mm	15mm*	16mm
Weight (kg/m ²)	± 0.2	10.7	13.9	13.9
Board Density (kg/m ³)	Minimum	840	913	856
Flexural Strength (N) (Longitudinal)	ASTM C1396 EN 520	≥ 476 ≥ 550	≥ 585 ≥ 650	≥ 654 ≥ 688
Flexural Strength (N) (Transverse)	ASTM C1396 EN 520	≥ 157 ≥ 210	≥ 193 ≥ 250	≥ 207 ≥ 269
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 374	≥ 390
Water Absorption (%)	ASTM C1396 EN 520		≤ 5 H1	
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

PLUS RANGE

Mada Plus Impact Resistant



Product Description

Mada Plus Impact Resistant Plasterboard offers impact resistance and fire & moisture resistance for high traffic areas. The high-density gypsum core is reinforced with glass fibers and special binding agents, and then sheeted with a thicker and stronger paper for extra durability.

Field of Application

- Residential buildings.
- Commercial buildings.
- Hospitals.
- Airports.
- Educational settings.
- Light industrial and manufacturing projects.

Product Characteristics

- Length: Standard length is 2400mm, 2440mm & 3000mm. Special length is 1800mm to 4500mm.
- Width: 1200mm & 1220mm.
- Thickness: 12.5mm, 16mm.
- Edge: Tapered, Square, Beveled.
- Color: Yellow / Yellow.

System Specification

Tested and certified as per ASTM E119.
Tested as per ASTM E90/ASTM E413.
Tested as per BS 2:1992-5234 Strength & Robustness.

Technical Specification

Parameters	Application Standard	Plasterboard Thickness	
		12.5mm	16mm
Weight (kg/m ²)	± 0.2	12.1	15.2
Board Density (kg/m ³)	Minimum	952	938
Flexural Strength (N)	ASTM C1396	≥ 476	≥ 654
(Longitudinal)	EN 520	≥ 550	≥ 688
Flexural Strength (N)	ASTM C1396	≥ 157	≥ 207
(Transverse)	EN 520	≥ 210	≥ 269
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 390
Water Absorption	ASTM C1396 / EN 520		
Asbestos (% by weight)	-	No asbestos fibers detected	

* Special Requirements

PLUS RANGE

Mada Plus Shaft Board



Product Description

Mada Plus Shaft Board has a pure, high-density gypsum core with special additives for superior moisture and fire resistance, and sheeted with high-quality paper for a smoother finish. Mada Plus Shaft Board is available in 600mm widths only.

Field of Application

Mada Plus Shaft Board is the ideal product for fire-resistance requirements in areas such as lifts, stairwells, service shafts and other fire-resistant applications.

Product Characteristics

- Length: 3000mm.
- Width: 600mm.
- Thickness: 25mm.
- Edge: Square, Beveled.
- Color: Green / Grey.

System Specification

Tested and certified as per ASTM E119.
Tested as per ASTM E90/ASTM E413.
Civil Defense Approval: KSA, UAE & Bahrain.

Technical Specification

Parameters	Application Standard	Board Thickness
		25mm
Weight (kg/m ²)	± 0.2	18.3
Board Density (kg/m ³)	Minimum	724
Flexural Strength (N) (Longitudinal)	ASTM C1396 EN 520	≥ 1024 ≥ 1075
Flexural Strength (N) (Transverse)	ASTM C1396 EN 520	≥ 333 ≥ 420
Flame Spread Index	ASTM E84	≤ 25
Smoke Developed Index	ASTM E84	≥ 450
Asbestos (% by weight)	-	No asbestos fibers detected

STANDARD RANGE ADVANTAGES



Lightweight construction,
easy & fast installation



Sound & thermal insulation



Easy finishing



Mold resistance



STANDARD RANGE

Mada Regular



Product Description

Mada Regular Plasterboards are produced from a high purity gypsum core sheeted with the highest quality paper lining for a superior finish. For system applications and warranty coverage, we recommend upgrading to the Mada Plus range.

Field of Application

Mada Regular Plasterboards are used in Residential and Commercial Buildings, Hospitals, Airports, Educational Institutions, and other such applications.

Product Characteristics

- Length: Standard length is 2400mm.
- Width: 1200mm.
- Thickness: 8mm, 9.5mm, 12.5mm, 16mm, 18mm. Special thickness: 15mm.
- Edge: Tapered, Square, Beveled.
- Color: Ivory / Grey.

Technical Specification

Parameters	Standard / Tolerance	Plasterboard Thickness					
		8mm	9.5mm	12.5mm	15mm*	16mm	18mm
Weight (kg/m ²)	± 0.2	6.0	6.2	7.2	11.4	11.4	12.8
Board Density (kg/m ³)	Minimum	725	632	560	747	700	700
Flexural Strength (N) (Longitudinal)	ASTM C 1396 EN 520	≥ 279 ≥ 344	≥ 343 ≥ 400	≥ 476 ≥ 550	≥ 585 ≥ 650	≥ 654 ≥ 688	≥ 717 ≥ 774
Flexural Strength (N) (Transverse)	ASTM C 1396 EN 520	≥ 94 ≥ 134	≥ 116 ≥ 160	≥ 157 ≥ 210	≥ 193 ≥ 250	≥ 207 ≥ 269	≥ 235 ≥ 302
Nail Pull Resistance (N)	ASTM C 1396	≥ 225	≥ 249	N/A	≥ 374	≥ 390	≥ 420
Flame Spread Index	ASTM E84	25 or less					
Smoke Developed Index	ASTM E84	450 or less					
Asbestos (% by weight)	-	No asbestos fibers detected					

* Special Requirements

STANDARD RANGE

Mada Moisture Resistant



Product Description

Mada Moisture Resistant Plasterboards are produced from a high purity gypsum core with moisture resistant additives, all sheeted with the highest quality paper for a smooth and superior finish. For system applications and warranty coverage, we recommend upgrading to the Mada Plus range.

Field of Application

Mada Moisture Resistant Plasterboards are used in Residential and Commercial Buildings, Hospitals, Airports, Educational Institutions and other such applications.

Product Characteristics

- Length: 2400mm.
- Width: 1200mm.
- Thickness: 12.5mm, 16mm, 18mm.
- Edge: Tapered, Square, Beveled.
- Color: Green / Grey.

Technical Specification

Parameters	Applicable Standard	Plasterboard Thickness		
		12.5mm	16mm	18mm
Weight (kg/m ²)	± 0.2	7.2	11.4	12.8
Board Density (kg/m ³)	Minimum	560	700	700
Flexural Strength (N) (Longitudinal)	EN 520	≥ 550	≥ 688	≥ 774
Flexural Strength (N) (Transverse)	EN 520	≥ 210	≥ 269	≥ 302
Water Absorption, %	EN 520	H3 < 25% (H2 < 10% available on request)		
Flame Spread Index	ASTM E84	25 or less		
Smoke Developed Index	ASTM E84	450 or less		
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

STANDARD RANGE

Mada Fire Resistant



Product Description

Mada Fire Resistant Plasterboards are produced from high purity natural gypsum core with fibre glass for increased strength and improved sag-resistance, as well as additives and binders for fire resistance. For system applications and warranty coverage, we recommend upgrading to the Mada Plus range.

Field of Application

Mada Fire Resistant Plasterboards are used in Residential and Commercial Buildings, Hospitals, Airports, Educational Institutions and other such applications.

Product Characteristics

- Length: 2400mm.
- Width: 1200mm.
- Thickness: 12.5mm, 16mm, 18mm.
- Edge: Tapered, Square, Beveled.
- Color: Pink / Grey.

Technical Specification

Parameters	Applicable Standard	Plasterboard Thickness		
		12.5mm	16mm	18mm
Weight (kg/m ²)	± 0.2	9	11.8	13.3
Board Density (kg/m ³)	Minimum	704	725	728
Flexural Strength (N) (Longitudinal)	ASTM C1396	≥ 474	≥ 654	≥ 717
	EN 520	≥ 550	≥ 688	≥ 774
Flexural Strength (N) (Transverse)	ASTM C1396	≥ 157	≥ 207	≥ 235
	EN 520	≥ 210	≥ 269	≥ 302
Nail Pull Resistance (N)	ASTM C1396	≥ 327	≥ 390	≥ 420
Flame Spread Index	ASTM E84	25 or less		
Smoke Developed Index	ASTM E84	450 or less		
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

STANDARD RANGE

Mada Fire & Moisture Resistant



Product Description

Mada Fire and Moisture Resistant Plasterboards are produced from high purity natural gypsum core with fibre glass for increased strength and improved sag-resistance, as well as additives and binders for fire and moisture resistance. For system applications and warranty coverage, we recommend upgrading to the Mada Plus range.

Field of Application

Mada Fire and Moisture Resistant Plasterboard are used in Residential and Commercial Buildings, Hospitals, Airports, Educational Institutions and other such applications.

Product Characteristics

- Length: 2400mm.
- Width: 1200mm.
- Thickness: 12.5mm, 16mm, 18mm.
- Edge: Tapered, Square, Beveled.
- Color: Green / Grey.

Technical Specification

Parameters	Applicable Standard	Plasterboard Thickness		
		12.5mm	16mm	18mm
Weight (kg/m ²)	± 0.2	9	11.8	13.3
Board Density (kg/m ³)	Minimum	704	725	728
Flexural Strength (N) (Longitudinal)	EN 520	≥ 550	≥ 688	≥ 774
Flexural Strength (N) (Transverse)	EN 520	≥ 210	≥ 269	≥ 302
Water Absorption, %	EN 520	H3 <25% (H2 <10% available on request)		
Flame Spread Index	ASTM E84	25 or less		
Smoke Developed Index	ASTM E84	450 or less		
Asbestos (% by weight)	-	No asbestos fibers detected		

* Special Requirements

PLASTERBOARD ACCESSORIES



Mada UDZ Wedge Anchor

The UDZ Wedge Anchor combines the principle of a bolt anchor with that of a simple hammer-set anchor, where no tightening torque is required. The anchor expands automatically under the load of the application and pulls the cone into the expansion sleeve.



Mada L-Bead

The L Beads have a perforated, recessed edge and are used where the edge of the plasterboard is not exposed and where the fitting of a Stopping Bead would be difficult. The L Bead is fixed to the sheet of plasterboard with an adhesive or staples, with the finishing coats bonding into the plasterboard and feathering up to the bead nib.



Mada Bull Nose Bead

The Bull Nose Beads are ideal for a quick and easy finishing for your external corners. The beads soften the corners and avoid easy damage compared to sharp corners and are available in a variety of standard and customized sizes.



Mada LC – Bead (J-Shaped)

The LC Beads (J-Shaped) are ideal for Mada's Plasterboards of 12.5mm to 16mm thick. The finishing coats are applied up to the nib, which is blended back into the sheets.



Mada Corner Bead (External)

The Corner Beads (External) are ideal for a quick and easy finishing for your external corners.



Mada Stopping Bead

The Stopping Beads are square cornered metal beads serving as plaster blocks that fit snugly over the edge of plasterboards for protection at abutments, whilst no setting required. Upon installation, it allows jointing compound to maintain a straight line and may then be easily painted at site.



Mada Corner Bead (Internal)

The Corner Beads (Internal) are ideal for a quick and easy finishing for your internal corners. The beads are available in a variety of standard and customized sizes. They can be fixed to the sheet of plasterboard with an adhesive or staples, with the finishing coats bonding into the plasterboard and feathering up to the bead nib.



Mada Shadow Gap

Mada Shadow Gap Angles are cold-roll formed profiles made from pre-painted corrosion resistant hotdipped galvanized steel and conforming to ASTM A-653.



Mada M50- Shadow Gap

Mada M-50 Shadow Gap Angles are cold-roll formed profiles made from pre-painted corrosion resistant hotdipped galvanized steel and conforming to ASTM A-653.



Mada Casing Bead

The Casing Beads serve as plaster blocks and are square cornered metal beads that fit snugly over the edge of plasterboard for protection at abutments, whilst no setting required. Upon installation, the Casing Beads allow Jointing compound to maintain a straight line and may then be easily painted at site.

PLASTERBOARD ACCESSORIES



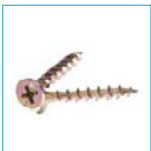
Mada Self Tapping Screw

Mada Self Tapping bugle head screw has the ability of the screw to advance while creating its own thread. It is used for fastening drywall and other accessories mounting on steel structures below 0.8mm thick.



Mada Self Drilling Screw

Mada Self Drilling bugle head screws also known as Tek screws, eradicate the need for a pre-drilled hole and allow drilling and fastening to be done in the same motion. It is used for fastening drywall and other accessories mounting on steel structures from 0.90mm up to 3.0mm thick.



Mada Laminating Self Tapping Screw

Laminating bugle head screws are designed to temporarily attach Mada plasterboard to plasterboard when gluing or laminating. This screw features a coarse thread design and great holding power.



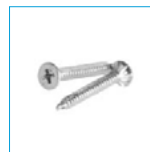
Mada Paper Joint Tape

Mada Paper Joint Tape is non-elastic and will create stronger joints. The Paper joint tape must be completely saturated and embedded into the base coat to avoid air bubbles. It is suitable for hand or mechanical application with Mada's jointing compound.



Mada Backing Rod

Mada Backing Rod is a round foam rod primarily used as a backing strip for expansion joints or as a gap filler for any open joints so caulking can be applied to finish filling the void and create an airtight and water-tight seal.



Mada Procem Self Drilling Screw

Mada Procem Self Drilling screw with ribs under head has the ability to advance while creating its own thread and also drills for seating of screw head. It is used for fastening Mada Procem cement board and other accessories mounting on steel structures up to 1.20mm thick.



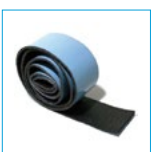
Mada Metal Corner Tape

Mada Paper Faced Metal Corner Tape is made up of strong paper tape reinforced with two parallel corrosion resistant metal strips. They are ideally used for protection of Internal and External corners, Archways and unusual angles.



Mada PLUS FireGuard Sealant

Mada PLUS FireGuard Sealant is an acrylic-based caulk that is resistant to water and mild chemicals, and contains anti-microbial protection to inhibit the growth of mold and mildew. Can be applied with all commonly available hand-gun equipment, and painted once dry. This sealant is an integral part of Mada PLUS systems, ensuring fire and acoustic performance is maintained.



Mada Closed Cell Resilient Tape

Mada Closed Cell Resilient Tape has a strong adhesive, and carried on brown siliconized release paper. The tape has excellent flexibility and suitable for thermal insulation, compressive filler & Sound attenuation fill.



Mada Fiber Joint Tape

Mada Fiber Joint Tape is composed of twisted strands of fiberglass woven at right angles to one another and used for reinforcing drywall joints. Suitable for hand or mechanical application with Mada Gypsum's Jointing Compound.

PLASTERBOARD ACCESSORIES



Mada Control Joint (Expansion Joint)

Mada Control Joint has a specially designed PVC rubber flexible joint which locks onto two galvanized setting beads. A protective filament tape is attached to the flexible joint section to keep it clean when applying the setting compound, and is removed on completion.



Mada Access Panel

Mada Access panels are gypsum based built in accessories for Mada Plus drywall systems. Mada Access Panels are great for allowing access to service areas for plumbing, electrical, security systems, telephone, computer cables, sprinkler systems and more.



Mada Fire Guard - Fire and Acoustic Silicone Sealant

Mada Fire Guard - Fire and Acoustic Silicone Sealant is a single component, neutral cure, gun-grade fire stopping sealant. It is an elastomeric, high performance sealant capable of meeting the joint movement requirements in a fire-rated joints.



Mada French Adhesive

Mada French Adhesive is a special gypsum product for adhering decorations and cornices to walls, and the installation of plasterboard on a dot and dab system.



Rockwool Insulation

Rockwool is an insulating material manufactured from natural minerals such as basalt, which are melted at very high temperatures and spun using advanced production techniques. The fibers are then bonded with a thermosetting resin binder and special additives. It has good thermal and acoustic properties, is lightweight and strong, and classed as non-combustible when tested to BS:476.



Mada Multi-Use Jointing Compound

Mada Multi-Use Jointing Compound contains vinyl binders and other ingredients that provide superior performance compared to ordinary ready mix products. Can be used directly from pail and requires minimal mixing, thinning, and re-tempering.



Glasswool Insulation

An insulating material consisting of fine, long, inorganic fibers bonded together by a high-temperature binder. Excellent acoustic properties, lightweight, high-tensile strength, with exceptional resilience.



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