



Dry Wall Partition System:

Dry wall partition system is a good combination of traditional and new building method and it is the fastest way to refurbish existing walls. Dry wall partition system is none load bearing and are constructed using dry wall construction technique, which is made of durable galvanized steel, clad with Gypsum Boards sheets. Compared with wooden partition, Gypsum partition can provide a safer and fire resistive wall.

the cost effective & the strong alternative of brick & wooden particle boards for wall partitions!

Features:

- GypBoard partitions are suitable for wide range of decorative finishes.
- Services & electrical cables can be easily accommodated.
- Provides smooth, seamless and crack-free wall surfaces.
- It can achieve fire resistance from 30 to 240 minutes.
- Can achieve a sound insulation of 37 to 56 db.
- The fastest way to refurbish existing walls.
- Easy & quickly installed by nails or screws.
- Can be moved to another location

Application:

All commercial and residential projects, such as: Model Houses/Apartments, Studio apartments, Residential Houses, Office Building, Factories, Department's Stores, Hospitals, and Restaurants, etc.

Wall System Enhancement:

Electrical and other services are routed through the cutouts provided in the studs. Normally the services to be installed after one side of the frame are boarded. Grommets or isolating strip should be installed in the cut out to prevent abrasion of the cables. Switch boxes/socket outlets can be fixed on brackets formed from the G.I cold rolled metal sections as per the requirements. Additional framing is installed as required to support heavy fixtures i.e. Air conditions, Cabinets etc.

go green 🌱 *lets be environment friendly!*



the strong alternative



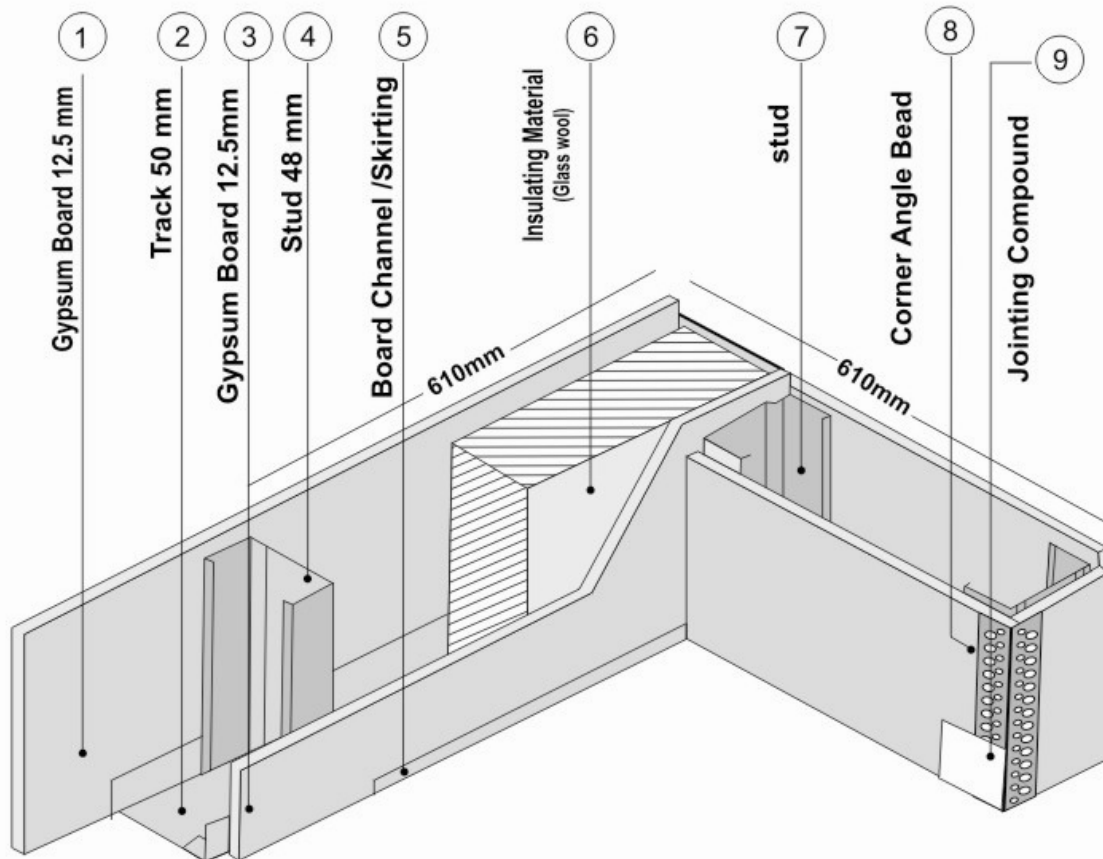
Comparison of Dry Wall Partition System & Traditional block masonry wall system

Parameters	Masonry Wall System	DFB Wall board
Usage	Durable, tolerant and suitable for external wall.	Durable, tolerant and suitable for internal wall
Weight	180 Kg/m ²	20-75 Kg/m ²
Fire Protection	60 minutes fire resistance.	30-180 minutes fire resistance .
Acoustic Performance	35-40 db	35-80 db
Speed of Construction	14 m ³ / day	40-50 m ³ / day (3 times faster)
Flexibility of installation	Requires beam system to support the structure	No beam system required.
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 surface.
Heat Insulation	High heat transmission (K = 0.85 Watt/m ² °C)	Four times lesser heat transmission (K = 0.19 Watt/m ² °C)
Quality of Material	Difficult to control various sources.	Standard quality control system.



GYPSUM BOARD DRY WALL PARTITION SYSTEM AS RECOMMENDED BY US:

75mm Thick Single Layer Partition



SPECIFICATION

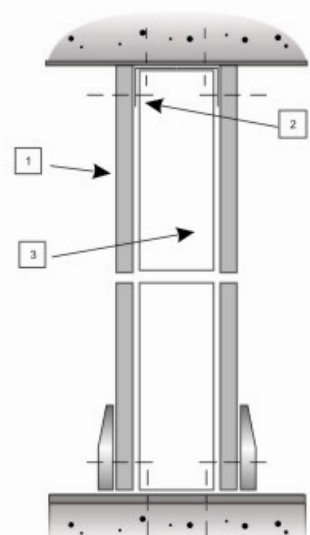
ASTM C- 1396 Gypsum Plaster Boards (Standard Type)

FIRE

Fire resistance is closely linked to the type of Gypsum Plaster Board used. However, the standard type also provides up to 120 minutes of fire resistance.

- 1- Gypsum Board 12.5mm thickness
- 2. Track Channel
- 3. Stud
- 4. Board Channel / Skirting

Wall Fixing detail





75mm Metal Stud Partition

75mm thick single layer metal stud partitions consists of a single layer square edge or tapered edge DFB Standard GypBoard, that is screw fixed to G.I cold rolled metal sections. These partitions are light in weight and extremely versatile and can achieve fire resistance, thermal insulation and can provide stability in all normal types of building.

Specification:

75mm thick metal stud partition includes 50mm G.I track (Floor and Ceiling channel) fixed at the head and base (0.5mm thick having equal flanges of 32mm made of G.I) then the G.I studs 48mm (0.5mm thick having one flanges of 34mm and another of 36mm made of G.I) are fitted vertically to a friction fit within the channel sections to form the frame work.

Then one layer of tapered edge 12.5mm thick DFB Standard GypBoard, (confirming to ASTM C1396) are fixed to the framing. The boards are fixed with drywall screws of 25mm at (For Imperial size Boards) 305mm (For Metric size Boards) 300mm center to either side of 48mm studs (0.50mm thick having one flange of 34mm and another of 36mm made of G.I) placed at (For Imperial size Boards) 610mm (For Metric size Boards) 600mm C/C in 50mm floor and ceiling channel.

The Gypsum Boards to be fixed in a staggered manner to avoid leakage. Finally square or tapered edge boards (as per your requirement) are to be jointed with glass fiber tape. In addition Corner Beads or Corner Tapes are used for the treatment of edges, and corner joints which support and reinforce the boards near edges and provides safety. Apply three coats of GypCompound, and leave it for 24 hours for drying. Grind the exposed compound with abrasive paper, and the surface is ready for further decoration such as: painting or pasting wall papers.

Partition Detailing:

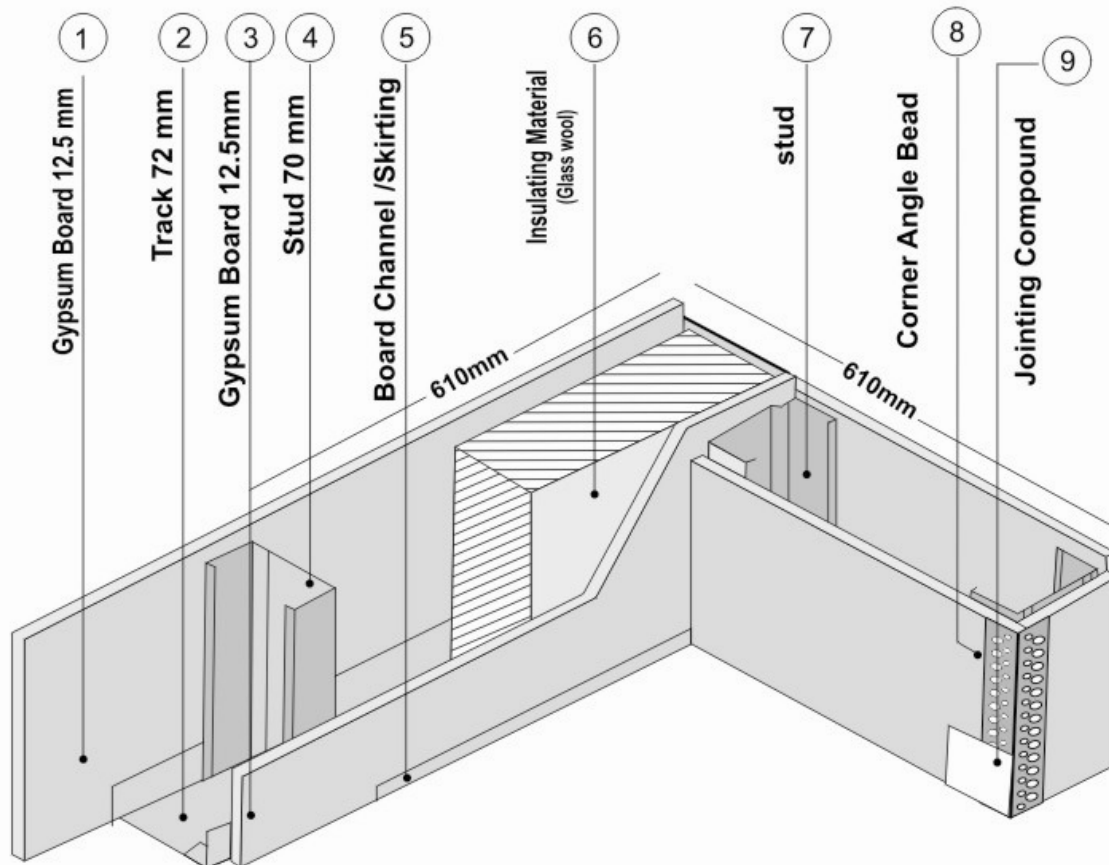
Partition Thickness	: 75mm
Approximate Weight Kg/m ²	: 22 Kgs.
Recommended Height	: 2.44 Mts.
Fire Resistance	: 30 mts.
Sound Insulation	: 34 db.
With Glass Wool	: 36db.

Estimation base for 100 Sq.mt:

1220 x 2440 x 12.5mm Gypsum Board	50mm Track Channel	48mm Metal Studs	25mm Drywall Screws	Jointing Compound	Paper Tape
70 Nos	84 rmt	174 rmt	2170 Nos	110 KGs.	320 mts.

GYPSUM BOARD DRY WALL PARTITION SYSTEM AS RECOMMENDED BY US:

97mm Thick Single Layer Partition



SPECIFICATION

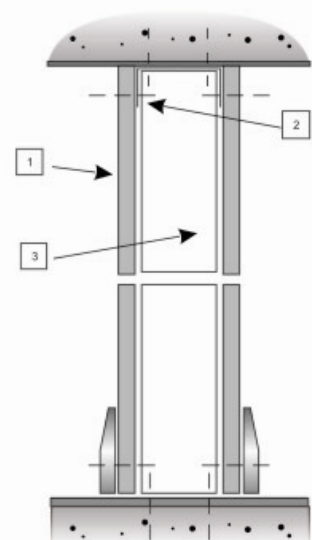
ASTM C- 1396 Gypsum Plaster Boards (Standard Type)

FIRE

Fire resistance is closely linked to the type of Gypsum Plaster Board used. However, the standard type also provides up to 120 minutes of fire resistance.

- 1- Gypsum Board 12.5mm thickness
- 2. Track Channel
- 3. Stud
- 4. Board Channel / Skirting

Wall Fixing detail





97mm Metal Stud Partition

97mm thick single layer metal stud partitions consists of a single layer square edge or tapered edge DFB Standard GypBoard that is screw fixed to G.I cold rolled metal sections. These partitions are light in weight and extremely versatile and can achieve fire resistance, thermal insulation and sound insulation and can provide stability in all normal types of building.

Specification:

97mm thick metal stud partition includes 72mm G.I track (Floor and Ceiling channel) fixed at the head and base (0.50mm thick having equal flanges of 32mm made of G.I) then the G.I studs 70mm (0.50mm thick having one flanges of 34mm and another of 36mm made of G.I) are fitted vertically to a friction fit within the channel sections to form the frame work.

Then one layer of tapered edge 12.5mm thick DFB Standard GypBoard, (confirming to ASTM C1396) are fixed to the framing. The boards fixed with drywall screws of 25mm at (For Imperial size Boards) 305mm (For Metric size Boards) 300mm center to either side of 48mm studs (0.50mm thick having one flange of 34mm and another of 36mm made of G.I) placed at (For Imperial size Boards) 610mm (For Metric size Boards) 600mm C/C in 50mm floor and ceiling channel.

The Gypsum Boards to be fixed in a staggered manner to avoid leakage. Finally square or tapered edge boards (as per your requirement) are to be jointed with glass fiber tape. In addition corner/plaster beads are used for the treatment of edges, and corner joints which support and reinforce the boards near edges and provides safety. Apply three coats of GypCompound, and leave it for 24 hours for drying. Grind the exposed compound with abrasive paper, and the surface is ready for further decoration such as: painting or pasting wall papers.

Partition Detailing:

Partition Thickness	: 97mm
Approximate Weight Kg/m ²	: 22 Kgs.
Maximum Height mm	: 3000mm
Fire Resistance	: 30 mts.
Sound Insulation	: 37 db.
With Glass Wool	: 39db.

Estimation base for 100 Sq.mt:

1220 x 2440 x 12.5mm Gypsum Board	72mm Track Channel	70mm Metal Studs	25mm Drywall Screws	Jointing Compound	Paper Tape
56 Nos	67rmt	174 rmt	2170 Nos	110 KGs.	320 mts.