



GYPSUM BLOCK - BLOCK WALL SYSTEM



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GYPSUM BLOCK WALL

PART 1 GENERAL

1.1 DESCRIPTION

The wall shall consist of solid gypsum blocks having two smooth surfaces. Each block is moulded with two tongued sides and two grooved sides, to enable them to be fitted perfectly together during assembly. Blocks are manufactured from high grade gypsum plaster with glass-fibre reinforcement.

REFERENCES

- A. BS 5234 Part 2 : 1992 - Standard Test Method To Determine The Resistance To Damage Of Partition System.
- B. BS 476 Part 22 : 1987 - Standard Test Method For Determination Of The Fire Resistance of Non-Loadbearing Partition.
- C. ASTM E413 – 87 - Standard Test Method Of Airborne Sound Transmission Loss Of building Partition.
- D. ASTM D 4541 : 1995 - Standard Test Method For Pull-Off Strength Of Coatings.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including dimensions, finishes, storage and handling requirements and recommendations, and installation recommendation.
- B. Shop Drawings: Provide drawings showing dimensions, layout, joints, details, and interface with adjacent work; include field measured dimensions of the spaces where items are to be installed, if critical to proper installation.
- C. Samples: Representing actual product, color, and patterns.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Transport, lift, and handle units with care, avoiding excessive stress and preventing damage; use appropriate equipment.
- B. Store products in manufacturer's unopened packaging until ready for installation, in a clean dry area protected from weather, moisture and damage; store units upright and not stacked unless permitted by manufacturer.
- C. Care should be taken when handling the blocks to avoid scratching faces and chipping edges.



PART 2 PRODUCTS

2.1 MANUFACTURER/SUPPLIER

- A. Acceptable Manufacturer – Shanghai Peising Materials Industrial Co.
- B. Supplier - Plasterceil Industries Pte Ltd
No. 16 Sungei Kadut Street 6 Singapore 728861
Email: enquiry@plasterceil.com www.plasterceil.com
- C. Substitutions - Not permitted.

2.2 MATERIALS

- A. *plastec* Gypsum Blocks are manufactured from high grade gypsum plaster with glass-fibre reinforcement with smooth surface and tongued and grooved on side.
1. Dimension : 100mm Thick block of Length 666mm and Height 375mm.
 2. Weight : 16kg per block or 64kg/m²
 3. Strength and Robustness : Severe Duty Grade
 4. Performance : Crowd Pressure 3 KN/M
Anchorage Weight 1500 N to 4000 N
 5. Fire Resistance : 4 Hours
 6. Acoustic Insulation : 38 dB / 42dB(With Insulation)
 7. Pull-Off Strength : Greater than 25 N/mm²
- B. *plastec* Adhesive Compound – Specially formulated compound with high bonding strength for application to Blocks Wall System.

PART 3 INSTALLATION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly constructed; verify that substrates are plumb and true.
- B. Check field dimensions before beginning installation. If dimensions vary too much from design dimensions for proper installation, notify Architect and wait for instructions before beginning installation.
- C. Floor to be checked for level and if filling required a screed can be lay on.



3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. All internal walls shall be constructed with 666mm x 375mm x 100mm *plastec* Gypsum Blocks bonded together with *plastec* Adhesive Compound.
- B. Install in accordance with manufacturer's current printed methods and recommendations.
- C. Block Wall shall be finished with a thin skim coat.
- D. Fasteners as recommended by Manufacturer for specific job conditions.
- E. Tiles fixing to be done accordance to manufacturer's methods and recommendations.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

3.5 MAINTENANCE

Block wall surface may be maintained in exactly the same way as drywall or plastered surfaces. Repair to chips or crack may be carry out with any plaster based filling compound available for commercial or domestic use.

END OF SECTION

