



Internal Wall Solutions

d•WÄLL – INTERNAL WALL SOLUTIONS

Gypotech d•WÄLL is an internal wall solution that uses gypsum blocks (made using calcium sulphate as a base material). These blocks combine the benefits of conventional masonry with contemporary drywall construction. It has all the qualities of masonry: solid, void-free and highly stable; but better as it doesn't require mortar, sand or plaster. This means the walls are to large degree built without water, Just like dry walls, but not similar to conventional dry walls. For distinction this construction with gypsum blocks is often referred to as massive drywall construction.

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d•WÄLL panels are rectangular in shape with tongue and groove mechanism for easy installations and are ready for painting works.



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Applications

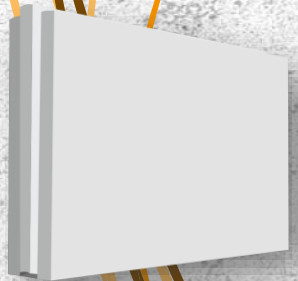
- Internal Walls
- High Rise Towers
- Acoustic Barriers



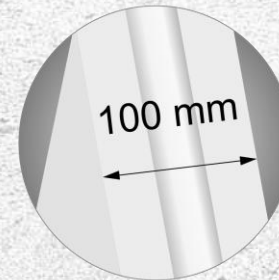
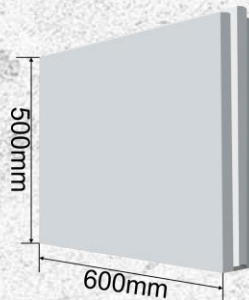
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Technical Details

- Face Dimensions : 500mm x 600mm
- Thickness : 100mm
- Weight Per Block : Appro x 22kg
- Acoustic Performance : 39 db (STC)
- Density : 650 kg / cu. mtr.



MADE IN INDIA



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Features

SOLID

- 100% mineral
- 100% robust
- 100% precise dimensions

DRY

- No mortar
- No interior plaster
- Surface ready after sealing gaps

HEALTHY

- Biologically safe
- Non-emitting
- Does not support mould growth

SUSTAINABLE

- Resistant to ageing
- Duration of use more than 50 years
- Extremely low emissions during production

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Features

HYBRID

Solid construction, but low mass per unit area.

Lightweight, but no studwork or cavities.

QUICK INSTALLATION

Independent installation alongside the construction of the building shell and with optional hydro protection.

SOUND INSULATION

It contains sounds of up to 42 db (general conversation, radio sounds, soft music etc.) same as any other masonry internal wall without any sound proofing treatment.

FIRE PROOF

Can achieve 3 and 4 hour fire-resistive ratings.

Totally non-combustible once completely built.

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Other Features

- Traditionally as single-leaf and double-leaf partition walls.
- Proven to be comparable to walls that are 220 kg/ m² heavier as installation walls.
- Ideal for independent wall linings.
- Highly efficient as shaft walls.
- As highly efficient cladding for columns for fire protection.
- In Nordic countries it is classified EI 90-M firewall, which is a standard for reliable, functional and offers a good soundproofing. It fits perfectly to protection need against fire for schools, multipurpose halls, cultural centers.
- Also as safe, lead-free radiation protection blocks in X-ray facilities.

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Benefits

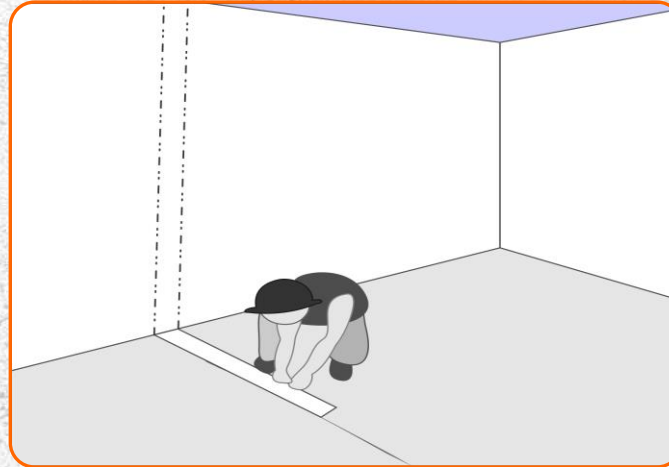
- Wet factory finish panel.
- Ready to install at site with minimum efforts.
- Fast & Reliable Construction.
- High impact strength.
- No need of Plaster and Water Curing.
- Easy to Chisel and finish.
- Good acoustic performance.
- Can take up to 20 Kg point load and can be nailed.
- Steady wall without capillary movement of water.
- High Glossy finish (ready to paint)
- No Pilferage.

DWALL – INSTALLATION

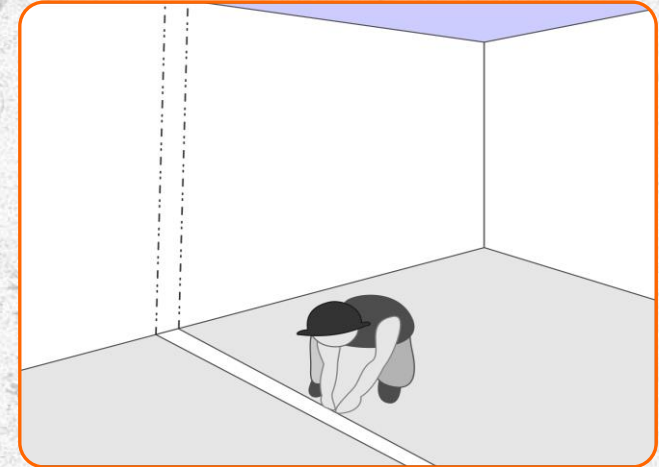
➔ **DWALL** Installation is easy, simple and time saving.



1 Clean the floor and ensure the floor is flat and level before commencing laying of blocks.

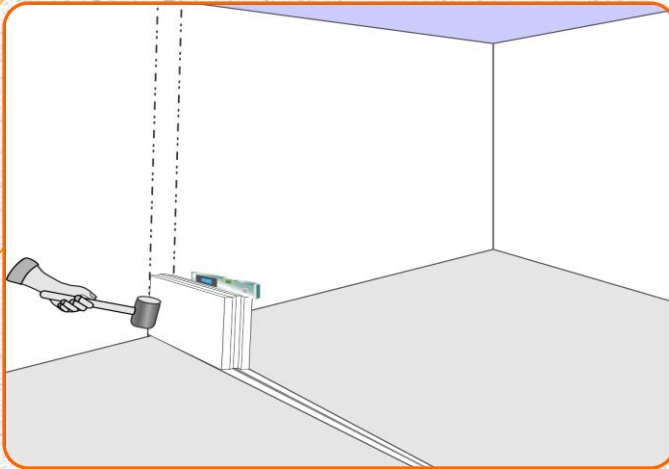


2 Use either a chalk line or a timber runner to set out the walls.

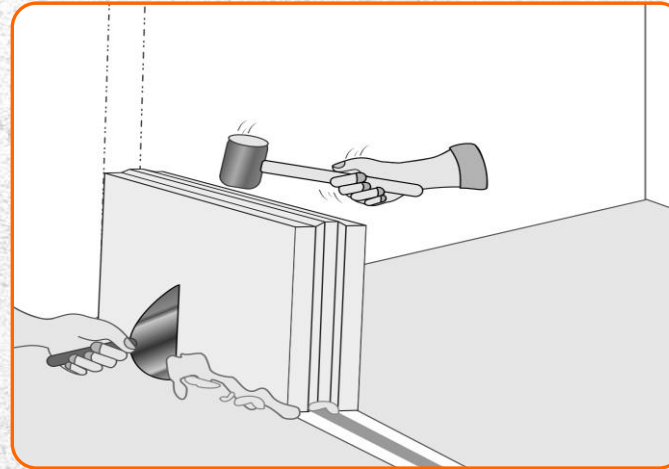


3 The first line of blocks is laid on the floor on a bed of DWALL glue.

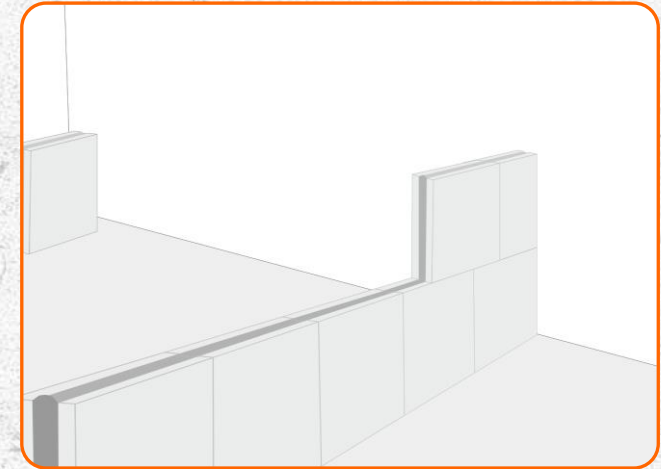
d•WÄLL – INSTALLATION



4 Ensure line and level while laying the first line of blocks. Use a wooden or rubber mallet to adjust the blocks.

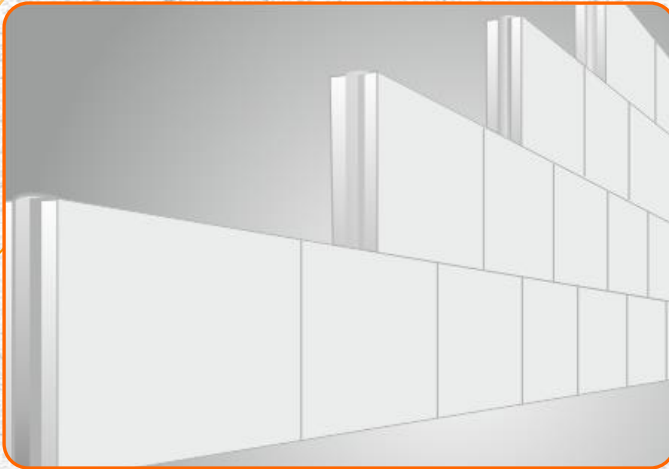


5 Lightly tap with a rubber hammer. Remove excess jointing plaster from the joints after approximately 30 minutes.

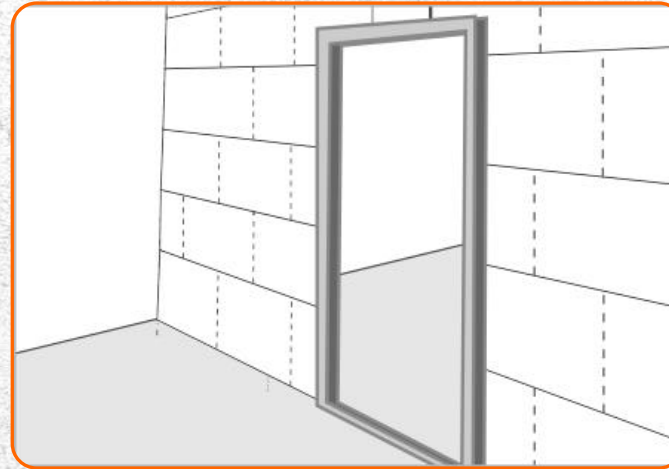


6 The placement of the first block in the second row begins with a half block, to form a staggered pattern and not have each one in straight columns.

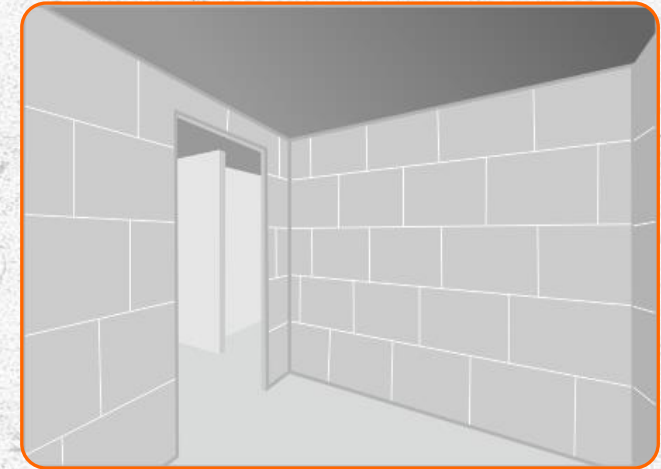
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- 7** Horizontal tongue and groove are interlocked. This will squeeze out excess glue from the joints. This must be removed after thirty minutes.



- 8** Integrate a soft joint between the top of the last row of blocks at the top and the ceiling to avoid load transfer. Cut the panel where necessary to fit required dimensions.



- 9** Intersecting walls should be either bonded in or secured with metal cleats.

d•WÄLL – INSTALLATION



11 The wall is now ready for a rendering finish. If a higher quality finish is required a skim coat of maybe applied to the entire wall.

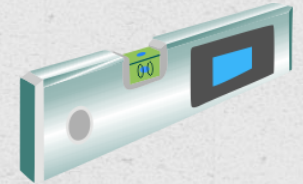
12 Use Correct Tools



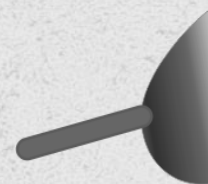
Carpenter's Saw



Wooden Hammer



Spirit Level



Spatula



Metal Cleats



Self Drilling Screws



thank you

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