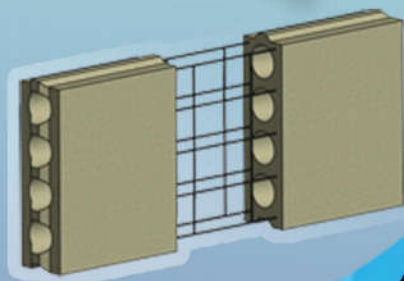




LIGHTWEIGHT INTERLOCKING HOLLOW CORE PANEL



- V-lite panels are produced from foam concrete, with concrete additives and synthetic fibers. The panels can be produced without hollow-core or with steel grid reinforcement as option.
- The properties of light weight, heat and sound insulation, water and fire proof make V-lite panels ideal for partition walls, very suitable for high rise building projects when it helps to reduce the foundation cost up to 30%.

• The V-lite panels can be made off strong concrete giving possibility to hang heavy objects on the wall.

• Construction cost of the wall with V-lite panels is lower by 25% compared to the clay burnt bricks and by 15% to the AAC blocks!

• V-lite panels help the contractors to save 80% concrete mortar for masonry works, 30-40% expenses of wall construction compared to incinerated clay bricks and 15-20% compared to AAC of CLC blocks.



Waterproof



• The wall built with V-lite panels meets the requirement and specifications specified by the highest standard of developed countries,

like British Standard BS 5234 : 1992.

• The V-lite panels have tongues and grooves at 4 sides to allow easy and fast installation. The hollow cores create parallel tubes inside the wall, for easy installation of electric and TV cable, water and gas pipelines. This helps the constructors to save huge amount in installation works and shorten the project schedule.



Fireproof

Heat insulation



44 dB

80 dB

20 dB **Soundproof**



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TECHNICAL SPECIFICATIONS

| Dimension mm | Hollow cores No x Dia. x Length | Weight * Kg, max | Strength of concrete* N/mm |
|--------------------------------|------------------------------------|---------------------|-------------------------------|
| 1200 (L) x 500 (H) x 100 (T) | 5 x Ø60 x 1200mm | 29-42 | 3.5-5.0 N/mm ² |
| 1200 (L) x 500 (H) x 150 (T) | 4 x Ø90 x 1200mm | 44-63 | 3.5-5.0 N/mm ² |
| 1200 (L) x 400 (H) x 100 (T) * | 4 x Ø60 x 1200mm | 23-34 | 3.5-5.0 N/mm ² |
| 1200 (L) x 400 (H) x 150 (T) * | 3 x Ø90 x 1200mm | 35-51 | 3.5-5.0 N/mm ² |

*Note: -Weight and strength of concrete can be produced according to buyer's request
- Panels can be produced without hollow cores or with steel reinforcement
(*) Optional sizes at special order*

V-LITE PANEL MEET THE HIGHEST GRADE OF PARTITION WALL PANELS (SD-Severe Duty grade) specified by British Standard BS 5234:1992

| Requirements | Requirements for Severe Duty (SD) grade panels | Performance of V-Lite panel | Qualifications |
|--|--|--|----------------|
| Stiffness of individual wall panel | Maximum deflection less than 10mm under the vertical load of 500N (50kg), Residual deflection under 1mm | Max. Deflection <1mm Residual deflection 0mm | Passed |
| Resistance to small hard body impact | Wall not damaged, broken or perforated when submitted to vertical impact by a steel sphere of dia.50mm/3kg at impact energy of 30N.m | No damage, broken part, no perforation. Only small slight traces on surface of the wall. | Passed |
| Resistance to structural damage by impact of a large soft body | Wall can resist to impact of a 50kg bag of sand of diameter 400mm, at impact energy 120 N.m without collapsing or dislocating the panel or its fixings | No damage, collapse or dislocating of panel on the wall which remain strong and firm. | Passed |
| Resistance to crown pressure | Wall can resist to a force of 3kN/m pressing on a wooden bar of 2,5m long at the height of 1.2m | No collapse or damage, no dislocation | Passed |
| Possibility to hang heavy object like water heater tank | Maximum deflection of the wall is 20mm, when an object of 150kg is mounted on the standard anchorage bracket. No damaged to the wall of bracket fixings | No deflection of the wall. The bracket remain firm, no releasing or detachment of the shim plate | Passed |

GUIDE FOR V-LITE PANEL ERECTION



Tools and equipments for V-lite panel erection



V, L Shape components for corner forming



Use ready mixed dry mortar for light block



Cut panel by electric hand cutting machine



Use toothed trowel to spread mortar



Use flat trowel to apply mortar at the end of panel



Use a long bar to check the flatness of the wall during erection



Install pipeline and electric cables easily in hollow cores



Can apply skim coat directly