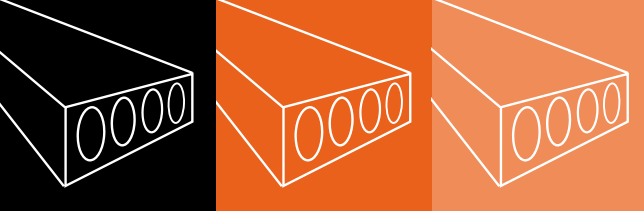


PRESTRESSED HOLLOWCORE CONCRETE SLABS

Used As Vertical Walling





ADVANTAGES

- Successful fast track solution expected to be used more in future.
- Projects complete up to 4 weeks ahead of schedule.
- The quality of the panels after 11 years of exposure to the elements is still of good quality – no wear visible.
- Panels are installed straight from the delivery trucks.
- Wall panels are delivered to site with ready made holes to facilitate lifting into position.
- Maintenance and trouble free.
- Hollow core panels are resistant to hammer and chisel.
- No requirements for shuttering or on site curing.
- Electric fencing or barbed wire fixtures are easily accommodated because of the available open cores.

SECURITY FEATURES

1. Wall panels are cast using a 50MPa concrete mix.
2. Panels are stripped off the casting bed only once 35MPa is achieved, ensuring the bond between concrete and prestressed wire or strand.
3. Minimum concrete strength at 28 days is 50MPa
4. Slabs can be designed for:
 - 4.1 Impact resistance
 - 4.2 Wind resistance
 - 4.3 Water drainage without compromising security
5. No foot hold at all - both sides smooth
6. Additional safety measures like electric fencing and razor wire can be fitted to the walls without a problem.

WHERE WOULD PRECAST SLABS BE USED AS VERTICAL WALLING?

- Security walling for prisons, airports, military bases or for any other buildings with high security requirements.
- Used as walls to construct a building. This application is installed between structural steel or concrete columns.
- Also used as retaining walls.



THE PRESTRESSED HOLLOW CORE FLOOR SLABS ARE ADAPTED AS FOLLOWS TO BE USED AS WALL SLABS:

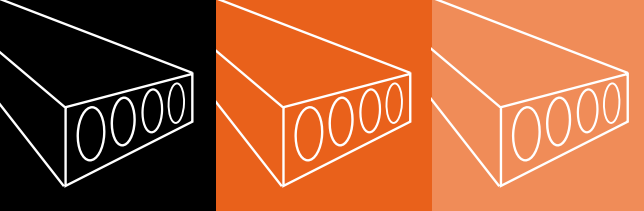
1. The panels are equally stressed top to bottom, equal number of prestressing wire or cables are used – top and bottom.
2. The side formation is adapted so that panels, when placed side by side, butt flush with one another with a neat V joint. A void is created between each panel with a special side formation. This void can be grouted or left ungrouted whichever the design may call for.
3. Designs are varied to accommodate various heights of walls, security requirements, wind resistance, water drainage requirement's etc.
4. Any slab depth may be used: 120mm, 150mm, 200mm and 250mm
5. Security walling mainly uses 120mm and 150mm deep slabs.

TYPICAL DESIGN

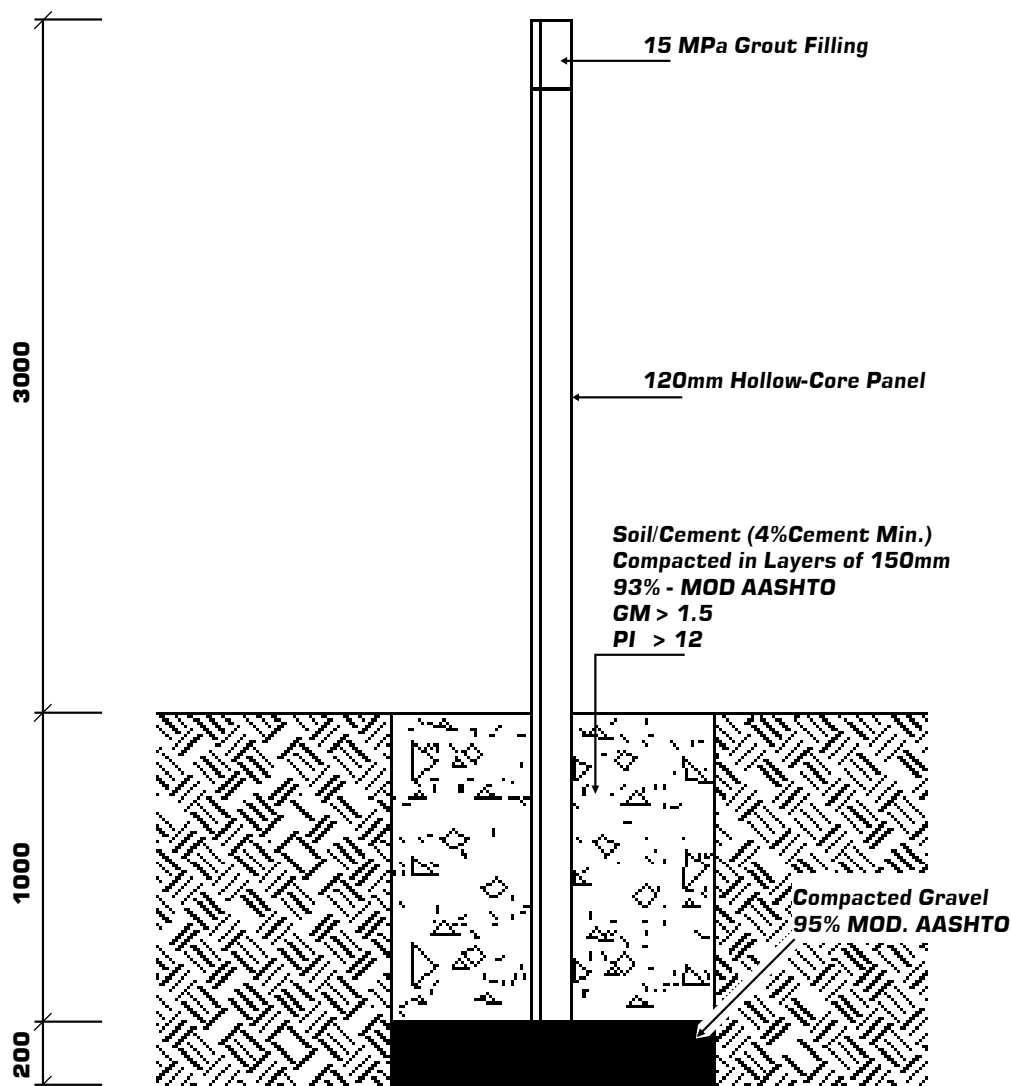
1. 120mm deep hollow core
2. Manufactured 4 000mm long
3. 1m into the ground, 3m above ground
4. Foundation size 900mm wide, 1 200mm deep with 200mm of compacted gravel 95% MOD. AASHTO
5. Balance is soil and cement (4% cement min) Compacted in layers of 150mm 93% - MOD AASHTO
6. $GM > 1,5$
7. $PI > 12$

Designs are adapted to suit soil conditions and heights are varied to the client's requirements.





SECURITY WALL TYPICAL SECTION



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