

Hollow Core Panel

FABPANEL™

Our Fabpanel™, also known as a hollow core panel, or a voided slab is a precast panel of prestressed concrete typically used in the construction of floors in multi-story buildings.

Specifications

- Width 1200mm
- Height 120mm
150mm
170mm
200mm

Our product is manufactured to specific needs and allows for building to continue 48 hours after installation and caulking.

Application

- Residential
- Commercial
- Industrial





Fabpanel™ Load Tables – Please refer to CD included in the folder.

For more information contact Ricky Vasconcelos.

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Service is not our only strength.



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“S” Range Hollow Block System

Our “S” Range blocks are manufactured by a factory of world class standards, thus ensuring a product of excellent quality.

These blocks are 450mm long and 220mm wide and of varying height, giving a nominal cross center distance of 600mm.

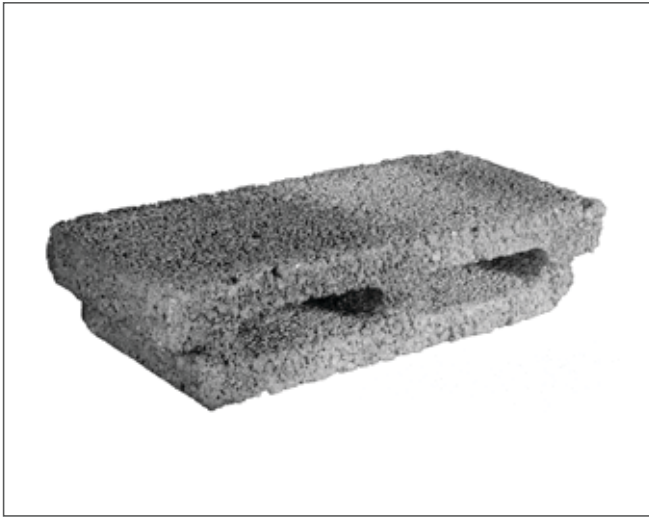
The “S” Range is a void forming system to reduce slab weight and to increase the load carrying capacity.

“S” - Trays are available to facilitate plumbing requirements within the depth of the slab. Closed end blocks are provided to minimize concrete usage

Application

- Residential
- Commercial
- Industrial





Product information

Ribs (Prestressed)

Normal size: 150mm wide x 60mm deep (21.0kg/m)

Wire: 4.00mm diameter ($f_y = 1700$ MPa)

Von Moos - triple indent supplied by Haggie Wire and Strand

Concrete strength at transfer is a minimum of 25 MPa, with a minimum 28 day strength of 40 MPa.

Ribs are 5 wires up to 4.5m, 7 wires from 4.6m to 5.9m and 8 wires for lengths of 6.0m and longer, with 9 and 10 wires available on request.

Hollow blocks

All blocks are 450mm long and 220mm wide and of varying height, giving the nominal cross centre distance of 600mm. Closed-end blocks are supplied to eliminate concrete wastage and additional blocks provided to allow for breakage.

Load Tables are available for design assistance.



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“N” Range Hollow Block System

Our “N” Range block slab was developed with the intention to reduce costs in erection time and concrete. The system comprises of 150 x 60 prestressed ribs and N170 or N255 structural hollow blocks.

N170 - 170° - volume of concrete per m² = 0.55m³

N255 - 255° - volume of concrete per m² = 0.81m³

Application

- Residential
- Commercial
- Industrial

Advantages

The “N” range system allows sections of the slab to be poured in stages due to the ease of “breaking a pour.” This allows for the continuity of building above the slab without delay.

The concrete is “struck” off level with the top of the structural hollow block ensuring a 40% saving in concrete. The above system is comparatively lighter than the conventional beam and block slabs due to reduced volume of concrete.





Product information

Mesh

Slabs with "N" range blocks do not require mesh

In-situ Concrete

25 Mpa "ready mix" concrete is specified by CSS, but a site mix may be permitted by the supervising engineer. The use of cube tests is recommended when site mixes are permitted. Volumes of concrete per m² given in the tables are a guideline to aid in the estimation of the concrete required.

The "N" 150 Block has been developed to reduce the costs of the slab by eliminating the need for mesh and increasing the rib spacing to 650 centre to centre.



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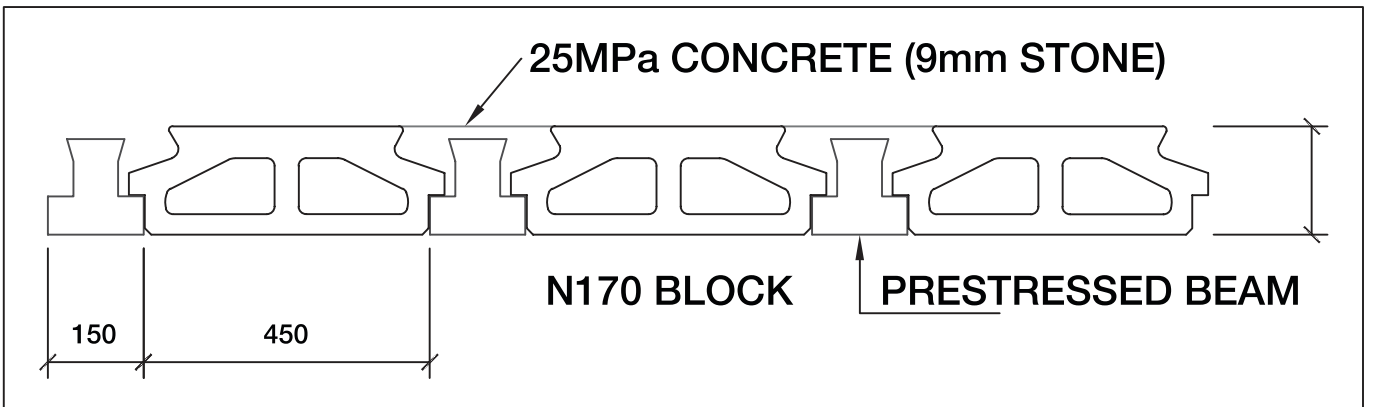
T-Beam / Propless system

This system comprises of prestressed inverted “T” beams and the N170 structural hollow blocks.

The T beam “propless system” is used on spans up to and including 4500mm long.

Applications:

- In place of fill to reduce costs of retaining walls and importing of fill material
- Townhouse developments
- As an alternative to Hollow Core Panels



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Ribs

Prestressed concrete is a method for overcoming concrete's natural weakness in tension. It can be used to produce beams, floors or bridges with a longer span than is practical with ordinary reinforced concrete.

Nominal size: 150mm wide x 60mm deep (25.0kg/m)

Wire: 4.00mm diameter ($f_y=1700\text{mpa}$).

Application

- Residential
- Commercial
- Industrial

Concrete Strength at transfer is a minimum of 25mpa with a minimum ultimate strength of 40Mpa.

5 wire Ribs up to 4.5m

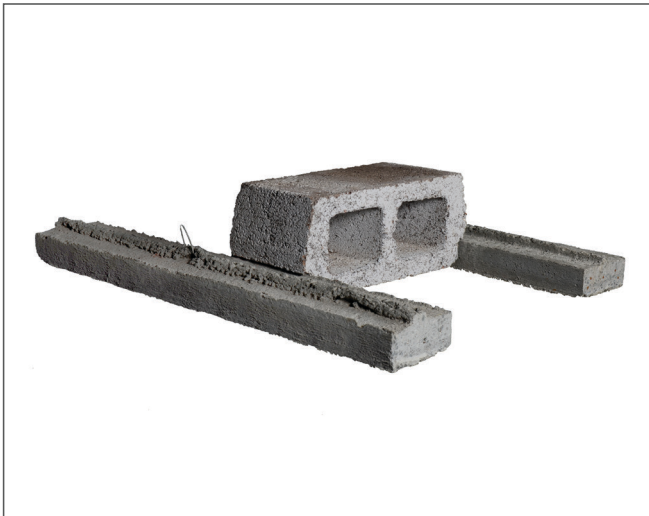
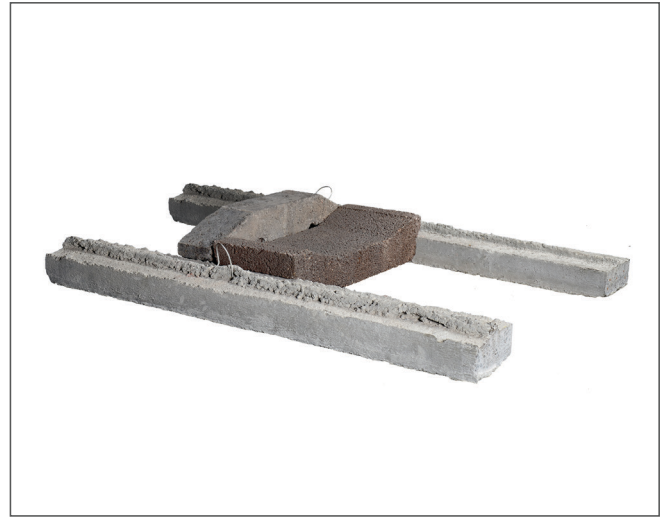
7 wire Ribs from 4.6m to 5.9m

8 wire Ribs for lengths of 6m or longer

9 and 10 wire Ribs are available on request

Prestressed ribs are manufactured for stock in 100mm increments.

We aim to have a minimum of 100 of each length in stock at any given time.



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