



PRECAST & PRESTRESSED CONCRETE BEAMS

For the Beam & Block Method for floors

No backfilling • No contact between ground floor and soil • No humidity ingress

Conceived by SARET (France) in 1960

Present in Mauritius since 1990

Geoffroy Road Bambous

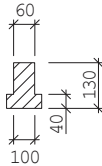
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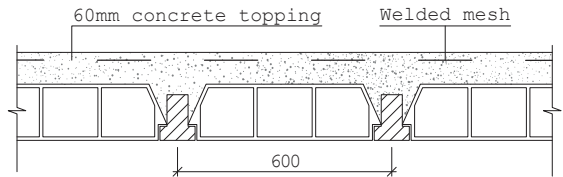


The United Basalt Products Ltd.

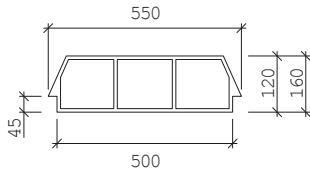
- The beams are manufactured to specific length and can span over up to $\pm 6\text{m}$. They are reinforced with **pre stressed tendons** of diameter **5mm** and tensile strength **1770 N/mm²**
- The number of tendons in each beam can vary between 2 and 5
- They are cast in **concrete grade 50.MPA** with maximum size of aggregate **12mm**
- The beam is **130mm** in height with a base of **100mm** wide and has a weight of **22kg per meter run**
- A typical section of the floor beam is shown below



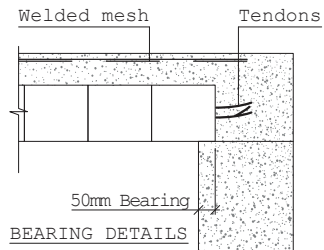
TYPICAL SECTION OF FLOOR BEAM



TYPICAL SECTION OF BLOCKS AND BEAMS



TYPICAL SECTION OF BLOCK
(Height 120 or 160mm)



BEARING DETAILS

Using Floor Beams & Hollow Blocks

- The PPB beams will rest on any load bearing element (e.g. ground beams) with a minimum bearing of 50mm
- The beams are placed at 600 mm interval C/C
- No propping is required for spans of up to about 3.0 m and minimal propping is required for larger spans
- The blocks are then glided one by one between the beams
- Top steel is placed over the supports at continuous spans
- Wire mesh reinforcement is placed all over the PPB beams and blocks
- Concrete of grade 25 MPA is poured to the specified thickness (60mm)

