

Technical Requirements

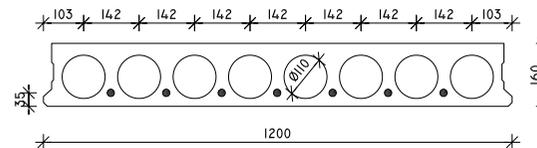
Manufacturing Method	Extruded
Standard depths	160mm 200mm
Standard widths	1200mm
Maximum lengths (with normal load & topping)	6.5m (160) 8.5m (200)
Theoretical weight of slab	240kg/m ² (160) 260kg/m ² (200)

Precast hollow core is amongst the most advanced systems in the precast concrete industry, making Portland's products some of the most reliable and durable products of its kind.

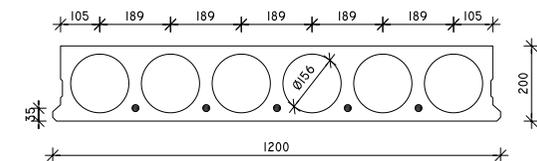
The high quality products are manufactured using state of the art technology imported from Elematic Finland.

Portland's extruded slabs are the only slabs in the Western Cape that are precast in sophisticated indoor factory conditions, ensuring more consistent quality, durability and a more compact and dense concrete product.

Decking Panels
Walling Panels
Precast Staircases
Columns and Beams



160mm THICK PRECAST HOLLOWCORE PANEL



200mm THICK PRECAST HOLLOWCORE PANEL

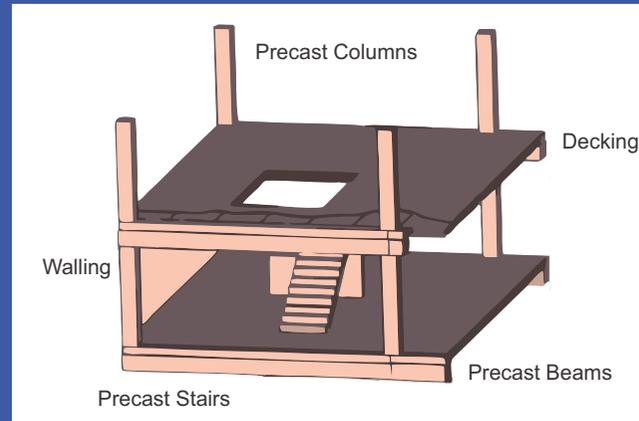


The Environment

- Hollow core uses less concrete, saving natural resources.
- Energy saving is caused by the high thermal co-efficient.
- The hollow core production process produces fewer greenhouse gases than other conventional building methods.
- The construction method is clean and efficient, reducing the impact of building activities on the environment.
- Construction can continue during less favourable weather conditions and not cause too much disruption.
- The precast flooring element can be recovered and re-used for other smaller and low budget projects.
- The overall carbon footprint of hollow core is less than that of in-situ.



The Complete Precast Solution



Portland delivers to customers in up to a **400km radius**. The company is local and operates mainly from one premises, ensuring effective integration and communication.

The in-house design team offers a full service operation, from design to manufacturing and installation, speeding up the construction process for all our valued customer.



Advantages

- Most widely used **international** type of precast flooring and roofing.
- Panels reduce the weight of flooring and can be used for longer spans allowing **more freedom** in floor plan and design.
- Reduced weight of slabs = **saving money** in foundations, transport and installation.
- Suitable for longer and shorter **spans**. Suitable for longer and shorter **spans**.
- Spans of 9.0 metres and more can be accommodated if the leveling screed is replaced by a structural topping reinforced with weld mesh.
- **Dry installation**: Only the joints need to be wetted and grouted.
- Faster and **simpler installation** due to precast nature, lower weight and precise dimensions.
- Smooth soffit - requires **no skimming**, only a textured paint finish.
- **No propping**, shuttering or site curing required.
- **Cost effective** from design to installation.
- **Controlled production** environment with just-in-time manufacturing:
 - less on-site congestion
 - reduced financing costs
- **Faster construction times** in all weather conditions.
- Manufactured with **non-combustible materials**
 - two-hours fire rating
 - three-hours fire rating with concrete topping
- Continuous voids provide **raceways** for electrical heating and/or plumbing trades.

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