

فلشة الحديد النعلی تؤمن الإستمرارية فوق الجسر



حجر الهوردي يتوزع ما بين الترفورات حاضر للتوزيع



THE PRESTRESSED RIB SLAB

نظام هوردي مع نرفورات سابقة الإجهاد

PRODUCT DESCRIPTION

The prestressed ribs are precast elements manufactured by slip forming concrete. Combined with hollow blocks, they shape a flooring system with many advantages. The ribs use a prestressed technology that leads to long spans with thinner sections. This system has been proven to be ideal for projects with repetitive number of villa's and buildings. The ribs are concealed within the floor and allow for a straight soffit ready to be plastered. It is faster to install and more economical than the traditional system.

PRODUCT USE

The PRS is most efficient when used in residential buildings and villas spanning from 3 to 9 meters. It can also be used in any type of building.

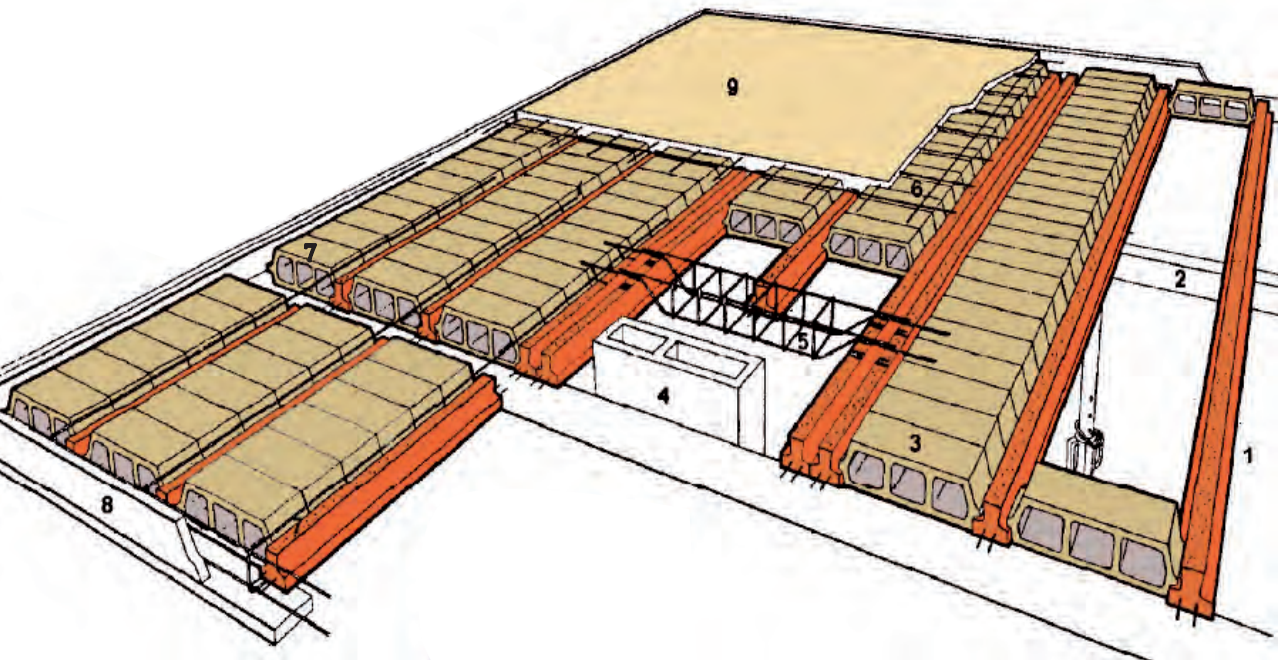
ADVANTAGES

- Remarkably lower price compared to traditional systems.
- Speed and ease of construction. 400m² of installation per day per crane.
- Straight finishing ready for plaster, or aesthetical finishing with arch blocks.
- Less propping and scaffolding compared to traditional
- High strength, lightweight, durable structure.
- Longer span and greater loads than conventional slabs of the same thickness.
- Automated production under strict Quality and Safety Control.
- High thermal insulation properties.

SYSTEM COMPONENTS

1. Prestressed ribs / العصب السابق الإجهاد
2. Provisory propping / الدعامات المؤقتة
3. Concrete hollow blocks / حجر خفان
4. Vertical shaft / منور عامودي
5. Small beam / جسر صغير
6. Slab reinforcement / شبكة الحديد
7. Top reinforcement for continuity / حديد التسليح فوق العناصر
8. Shuttering for a canteliver / قالب الخشب
9. Insitu cast concrete topping / صب الخرسانة فوق السقف

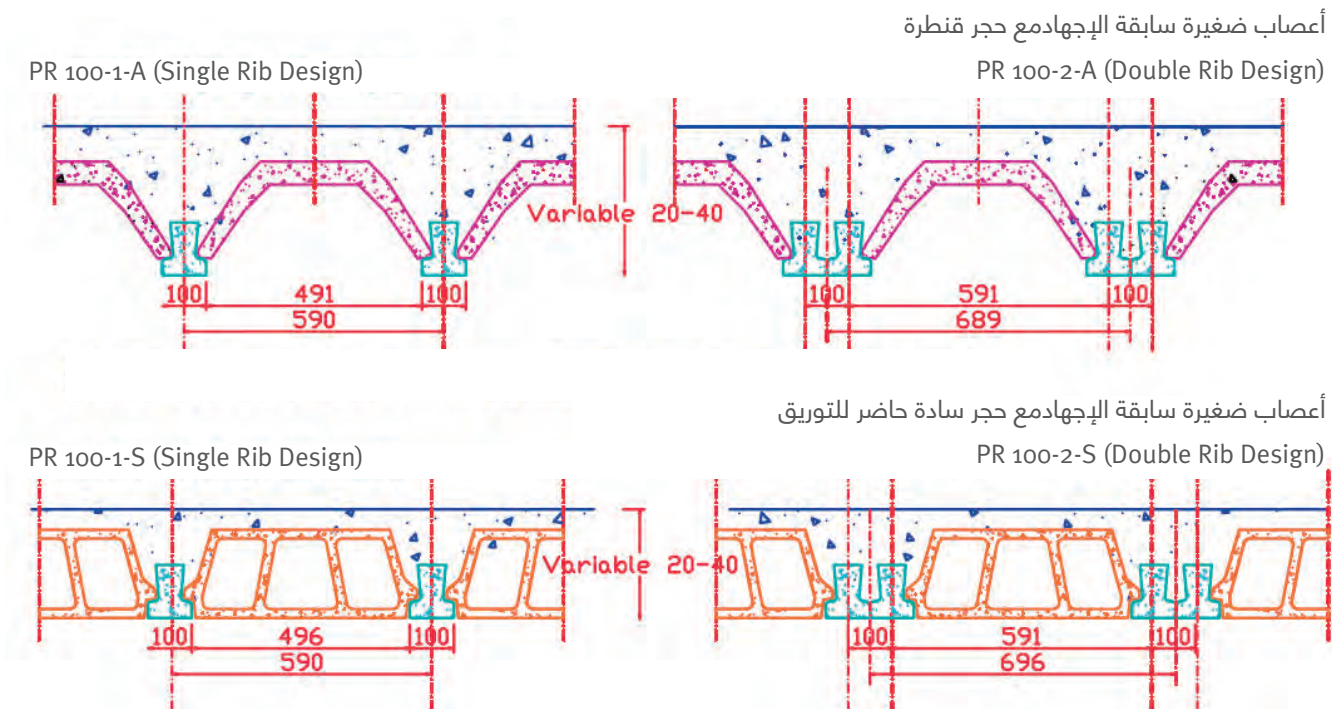
The prestressed rib structural system is formed of precast prestressed ribs (1) bearing hollow blocks (2). A layer of structural topping is cast on top (9), and works in composite action. The ribs have a continuous behavior over the support, while the positive moment is resisted by the prestressed steel, the negative over the supports is resisted by the rebars (7) included in the topping. The Ribs can be concealed with the insitu cast main beam to get a plain soffit.



SECTION ON RIBS

The prestressed ribs can bear two shapes of hollow blocks. The first is the standard Hourdi block, ready to be plastered, mainly used for apartment floors. Second the arch block gives an esthetical finish for parking and

schools. The prestressed ribs come in two dimensions and can span from 3 meters up to 9 meters. For long spans, the ribs are doubled and the prestressed reinforcement increased.



Small Prestressed Ribs Combined With Standard Blocks