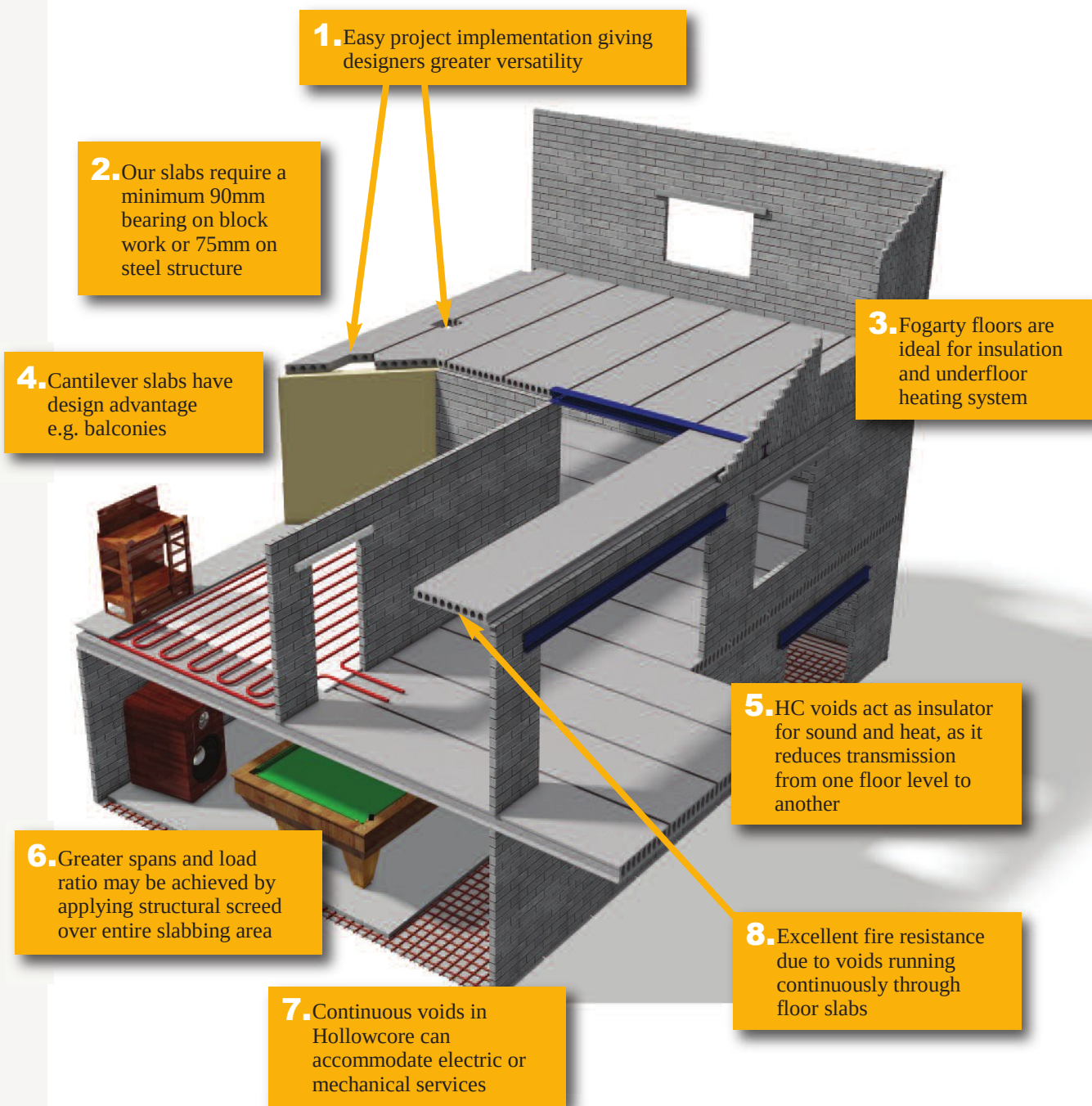


Hollowcore Advantages

Typical Installation Time 1–3 Hours

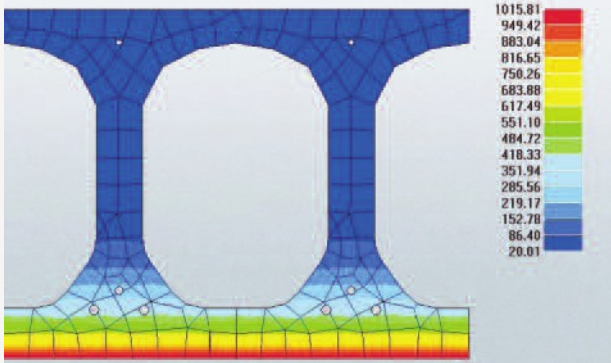
Anatomy of a concrete built structure



PRESTRESSED CONCRETE HOLLOWCORE SLABS

Hollowcore Advantages

Excellent fire resistance



Fire Resistance Data

Through the choice of the different thicknesses of the lower part of the element, floors can be produced with a high fire resistance up to 180 minutes.

Cost efficient construction solution



Stock of slabs

been produced they can be removed from the casting beds after just 6-8 hours.

Hollowcore slabs have minimal deformation even with high slenderness ratios due to the transversal

Quick Installation Time

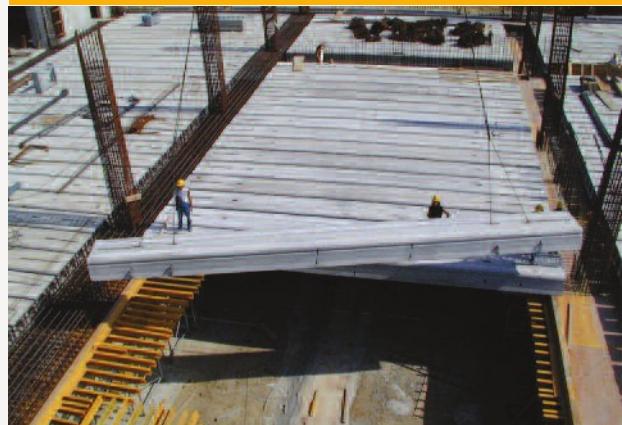


Installation with crane

With only 3-4 workers it is possible to install more than 500-600 m² of floor per day.

Large production volumes with uniform cross sections even with different cable reinforcement configurations. Once the concrete elements have

Heavy weight capacity



Large spans

load distribution and even when the elements do not have any concrete topping.

The produced elements have high load resistances thanks to a low water/cement ratio of concrete from 0.25 to 0.35. Higher water/cement ratios cannot be employed for the production of desired cross sections without the use of expensive formworks.

PRESTRESSED CONCRETE HOLLOWCORE SLABS

Hollowcore Advantages

Lower self- weight



Uniform crosssection

The presence of longitudinal voids in the cross-section leads to approx. 50% saving in concrete compared with a plain cast in-situ reinforced slab, and at the same time cuts the amount of prestressing steel by 30% because of the lower self-weight.

Assured quality



Production of Hollowcore

By using specific equipment for the manufacture of the concrete elements and a high end quality control system.

Excellent lower surface finish ready to paint



Ceiling slabs

The lower surface of the element is smooth having a steel formwork finish. Generally this surface can be left as seen or can be simply painted.

Easy project implementation giving designers greater versatility



Large Spans

Hollowcore slabs have a wide range of applications. They can be produced up to 25 m long. They are very common in the residential, healthcare, education, industrial and commercial markets and also in seismic zones. It is possible to manufacture elements with end openings that are then filled on-site in an orthogonal direction to the floor creating solid ends to increase shear resistance.

Hollowcore Advantages

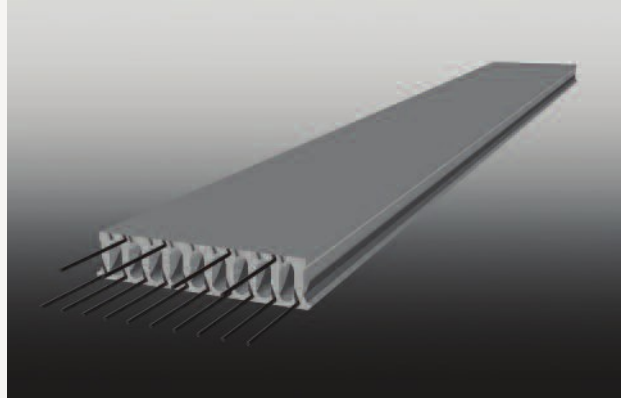
16. Easily adapted to enable mounting on ancillary building system.



Car park soffit view

Hollowcore slabs are ideal for the mounting of ancillary plant such as electrical trays, water sprinkler and HVAC systems.

17. High durability and load resistance.



Strands pattern

Prestressing technology ensure the long lasting and exceptional loading. Multiple metal wires (strands) prestressed and casted in our slabs giving them extreme strength and very long design life.

18. Long spans without temporary supports.



Slab installation

Applicable to all loads and spans meaning that there is no need for supports during installation. It is possible to load the floor immediately after installation, even without any in-situ concrete casting.

19. Green product reduced use of raw material.



Production of Hollowcore

Hollowcore slabs are economic with their use of materials. One reason is that the precaster normally uses fairly high concrete and steel grades, consequently the products use less materials to achieve the same load bearing capacity as cast in-situ structures. The presence of longitudinal voids in the crosssection leads to about 45% saving in concrete compared with a plain in-situ cast reinforced slab and at the same time cuts the amount of prestressing steel by 30% because of its lower intrinsic weight.