

cobiax – in use

“Elbphilharmonie” Residential & Hotel Hamburg, Germany

Architect: Herzog & de Meuron, Switzerland
2008-2009

Concrete reduction: 440 m³
Load reduction: 1'100 t
CO₂-emissions reduction: 90 t



“Siemens-City” Offices Vienna, Austria

Architect: Soyka-Silber-Soyka, Austria
2008-2009

Concrete reduction: 167 m³
Load reduction: 417 t
CO₂-emissions reduction: 35 t



“UKBB” University Children Hospital Basel, Switzerland

Architect: Stump & Schibli, Switzerland
2008-2010

Concrete reduction: 1'175 m³
Load reduction: 2'940 t
CO₂-emissions reduction: 250 t



“TESCO” Mixed use scheme Orpington, UK

Architect: Michael Aukett Architects
2008

Concrete reduction: 3'850 m³
Load reduction: 9'170 t
CO₂-emissions reduction: 760 t



“Altra Sede” Offices Milano, Italy

Architects: Pei Cobb Freed & Partn., Caputo
Partnership, Sistema Duemila
2008-2009

Concrete reduction: 2'840 m³
Load reduction: 7'100 t
CO₂-emissions reduction: 600 t



“Novartis Campus WSJ-158” Offices Basel, Switzerland

Architect: SANAA, Japan
2006

Concrete reduction: 172 m³
Load reduction: 430 t
CO₂-emissions reduction: 36 t



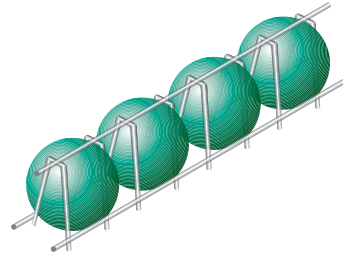
cobiax®-product range

The design principle

Removes the non-working dead load, maintains biaxial strength. In concrete, realise a hard shell with struts through the use of appropriately located cavities formed by hollow spheres.

A modular concept

Cobiax is available as cage module and is suitable for **insitu** applications as well as for delivery to **precast production** facilities. Cobiax can be used with other building techniques such as post tensioning and composite structures.



Deliverable

Cobiax cage modules in two product lines

For slab thickness cm:

Hollow core height Ø mm

For spans m

Slim-Line



20 - 28

100 und 140

8 to 18

Eco-Line



30 - 60+

180 bis 450

8 to 18

We are keen to provide preliminary advice for your projects and give you guidance for your designs

cobiax Big5 – easy and flexible

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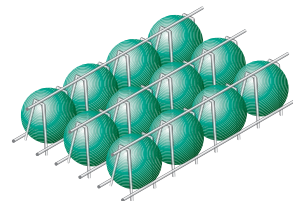
Big5 benefits for Developers Architects & Engineers



Flat slabs

Flexible layouts

it's in the air

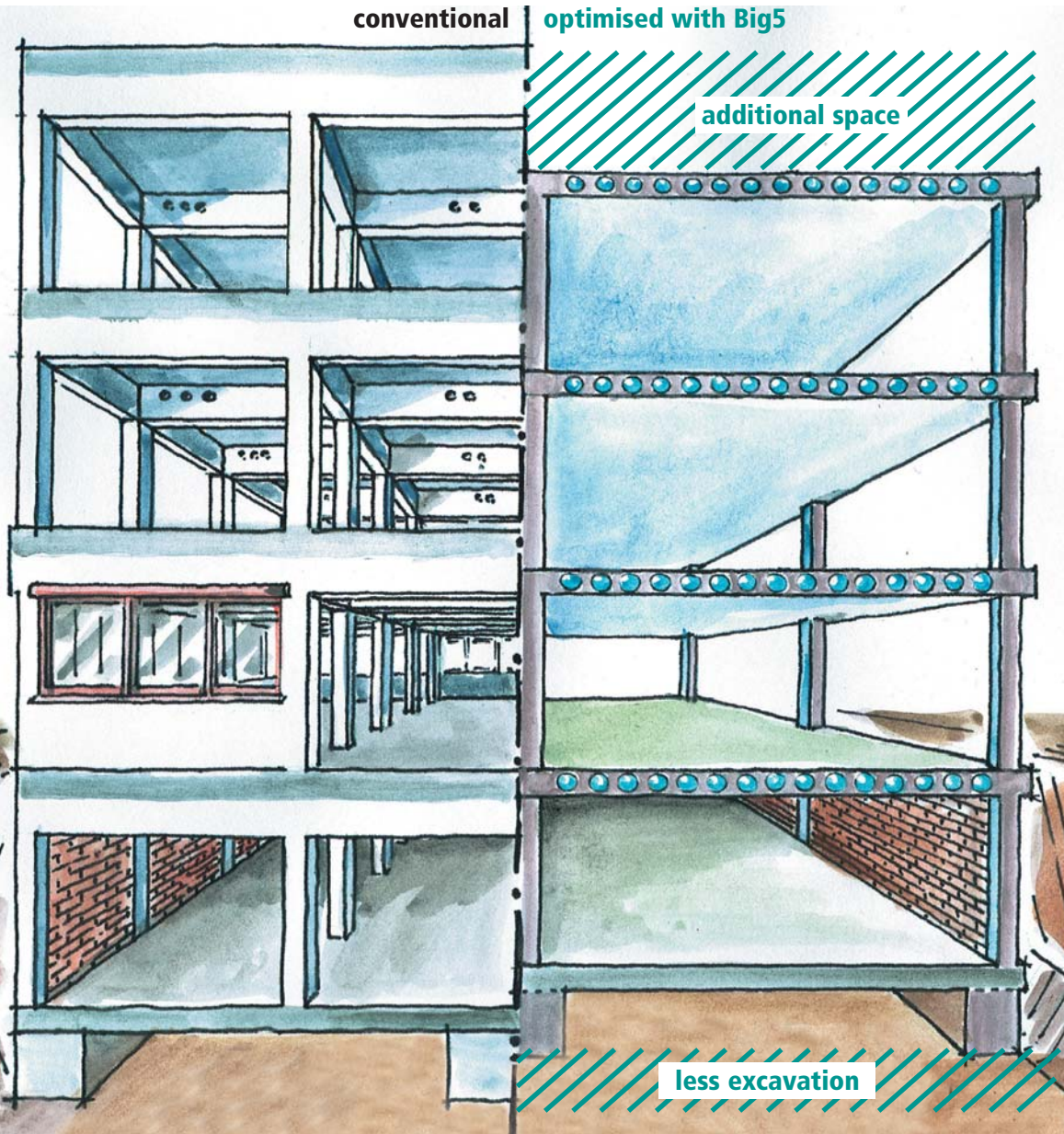


cobiax[®]-flat slabs

with Big5-benefits

for integrated cost optimisation

The cobiax technology (patented) allows an integrated concrete slab construction for long spans without beams which is a requisite to realise an increased sustainability of the building value and at the same time save resources.



Light – flat – biaxial

- Up to 30% lighter slabs
- Reduced deflection
- Slim columns
- Reduced foundation loads
- Biaxial load bearing

Span

- Up to 18m span
- No beams
- Up to 40% less columns

Open plan

- Spacious area
- Open plan flexibility
- Better user acceptance
- Eased change of use, horizontal and vertical
- Column supported flat slab

Earthquake resistance

- Weight reduction
- Limited damage risk

Resource effectiveness

- Concrete reduction
- Reduction of building elements
- Reduction of reinforcement
- Reduction of CO₂ emissions
- Optimized construction time
- Sustainability

The cobiax technology optimises the lifecycle cost and can also decrease the over-all building cost. Below example illustrates this fact.

