

Visions Trough Technology

Reference project: Façade Südpark Basel

Architect: Herzog & de Meuron



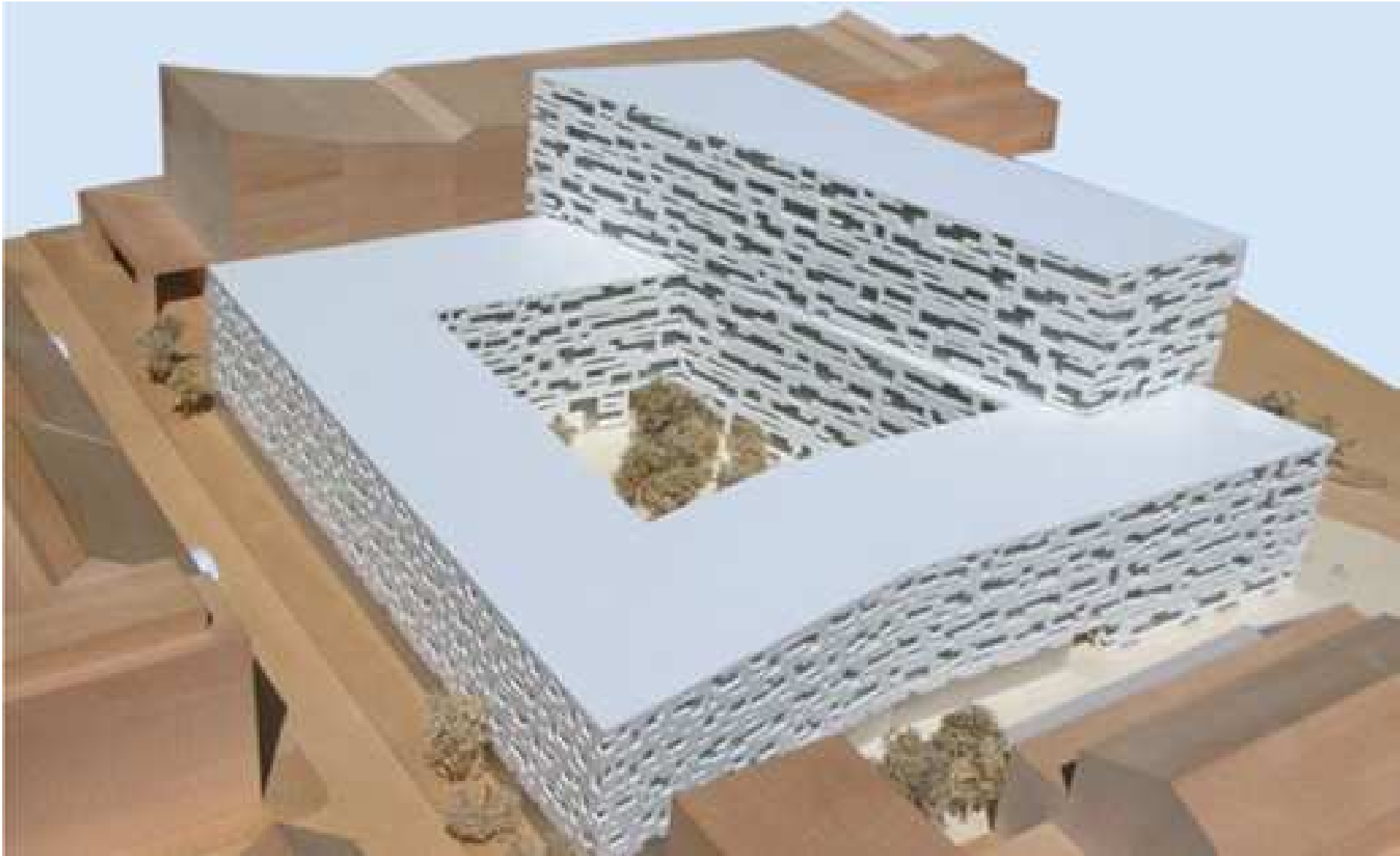
Takes the weight off your project.

Façade Südpark Basel – Herzog & de Meuron

Südpark
Basel



Façade Südpark Basel – Design model



Requirements for the system

From the architect:

- Unique design of facade with complex three-dimensional geometries
- Planning from the architect perspective

From the technical side:

- Possible movements of the construction should have a minimum impact to the facade elements
- Need for system components which allow a production in sequence and just-in-time
- High level of prefabrication
- 100% on time despite high level of customization
- System with an ETA approval



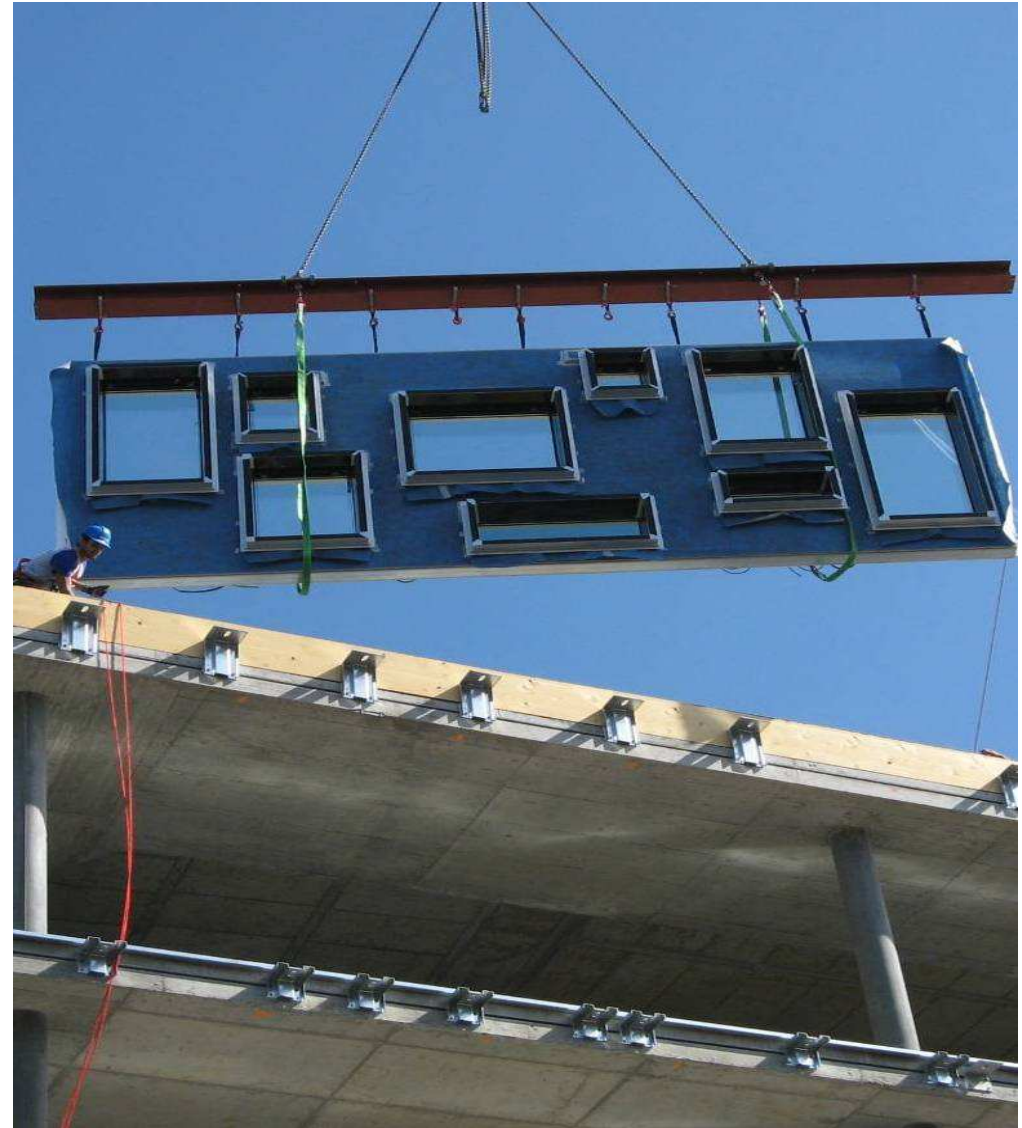
System Solution

Architect :

- Realization of a 3-D model of the complete facade in order to secure planning and quality

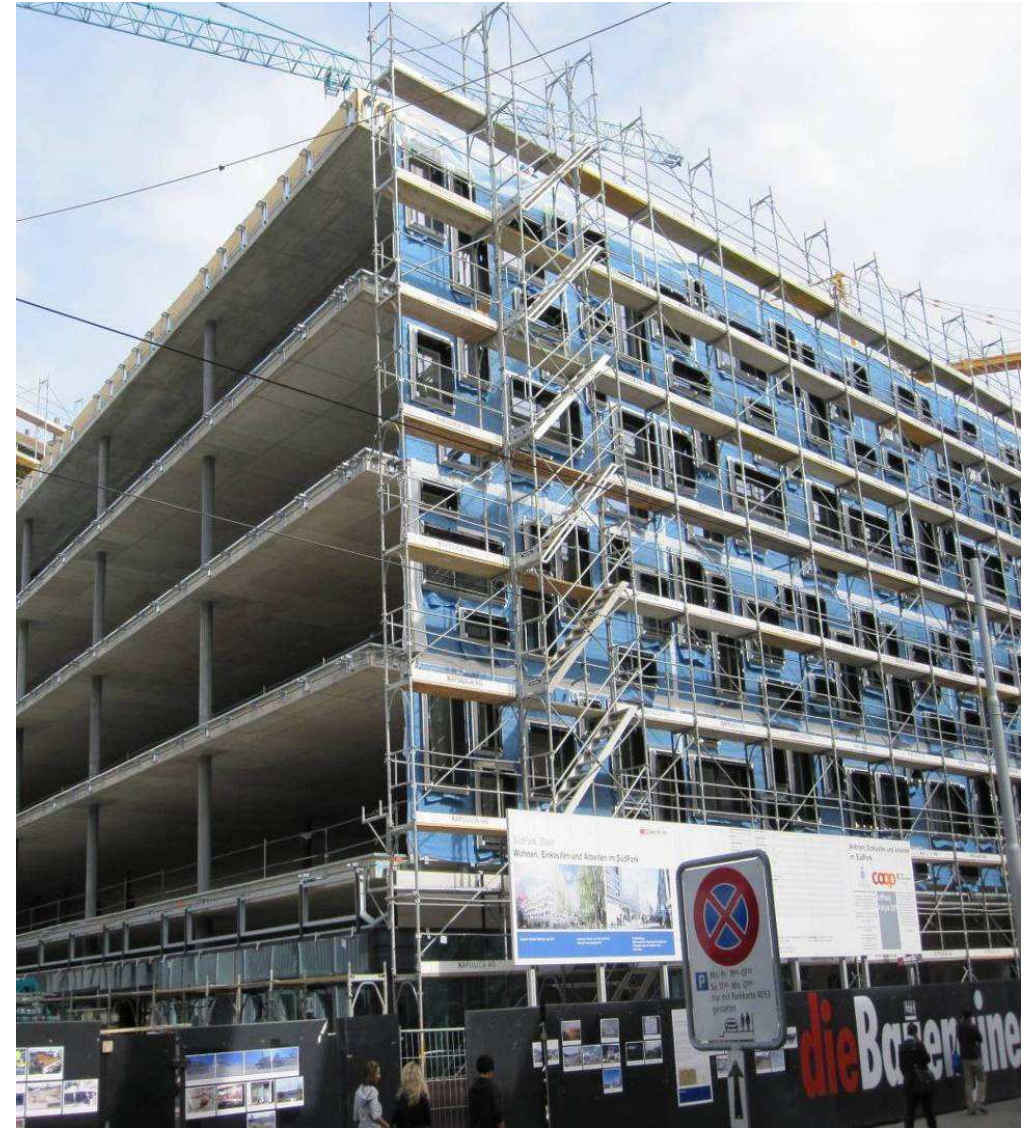
Technical :

- Construction of the elements in Cocoon „Transformer“ considering the following components:
 - Load transference per floor
 - Earth quake safety
 - Mounting
 - Statically and structural-physical verification
 - Fire protection
 - Lightning protection



Facts and figures

- Realization time (planning until assembling): 13 months (01.2010 – 02.2011)
- Size of facade: 6'700 m²
- Number of different elements: 308, 98 Loggias
- Output production first 2 weeks: 2 elements / day
- Output production after first 2 weeks: 4 – 5 elements per day
- Number of windows: 1'497, 542 different ones
- Cocoon „Transformer“ Profiles:
 - 22'798 meter
 - 20'152 single pieces
- Aqua panel: 6'120 m² in pieces: 9'084



Advantages of Cocoon Transformer

- Non-combustible carrying structure
- Up to 25% weight saving compare to timberwork
- Long lasting thanks to high efficiency of resources and high portion of recycled materials being used
- Consulting and Support through planning, statics and prefabrication of material
- Planning tool with the element module of cadwork for the system Cocoon Transformer
- Efficient work through nailing of the planking with ballistic nails from Haubold
- ETA-Approval (European Technical Approval)
- Realization of challenging projects of word wide known architect like Renzo Piano, Herzog & de Meuron or Daniel Libeskind

