

GLASS CONSTRUCTION RESIDENTIAL, SHOPPING AND SERVICES CENTRE Q6-Q7 Mannheim (Germany)

NEW BUILDING

Client: DIRINGER & SCHEIDEL Q6 Q7 GmbH & Co.
Beteiligungs KG, Mannheim (Bauunternehmen)

Architects: Blocher Blocher Partners, Stuttgart

Our services: Full structural design

Brief description: A modern steel and glass construction, large covered area and footbridge with long span connecting the new buildings

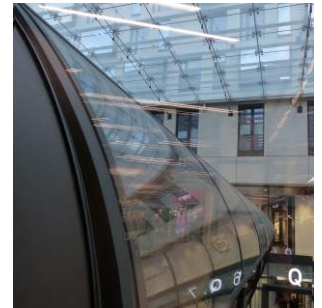
Canopy

- sloping roofing 15 m high
- trapeze-shaped floor plan with a length of 46m, width from 15 m to 22 m
- pre-tensioned cable truss construction
- glass panes with point-fixing
- glass panes suspended over lateral sections on the cables
- size of panes 2 x 1.5 m

Footbridge

- span of 22 m
- 5.5 m above ground
- 5 m wide walkway with elliptically shaped shell
- total height of object 3.9 m
- 3 m long, welded box girder functioning as the load-bearing element of the bridge
- thickness of walkway and flange up to 25 mm
- simply curved insulation glazing
- traverse arches fixed stiffly on the box girder

Completion: 2016



Pictures / Illustrations: Professor Pfeifer and Partner PartGmbH, Blocher Blocher Partners

Professor Pfeifer and Partner PartGmbH Structural engineering Building physics Fire protection Structural assessment
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