DUCON

Ultimate Performance
DUCON Architectural



Diversity of concrete – the innovative metamorphosis of concrete

General building approval Z-15.4-391

Properties

The high-performance DUCON concrete offers a high-quality surface and a high moldability with nearly unlimited design possibilities. The range includes surfaces from smooth to acid-treated, rough surfaces in combination with various colors. The unique material properties of DUCON enable the creation of slender, large-format components with high load-bearing capacity.

DUCON®

= DUctile CONcrete, UHPC with 3D micro-reinforcement (MicroMat®)
= innovative concrete technology with a large spectrum of applications
(international patentsand trademarks)

Applications

Spectrum of applications: The portfolio of the slim structures reaches from architectural concrete, structural components and shells to design elements and concrete furniture
Precast elements: Fabrication and delivery by DUCON Europe or a partner that is certified for the manufacturing process
Highlights: Thin facade panels (from 35 mm, up to L x W = 4,50 x 14,00 m), energy facades (from 55 mm), thinnest concrete stairs (80 mm), thinnest roof shell (30 mm)

References

Police station Bronx (NYC), Liberty Park (NYC), RiKu Hotel Reutlingen, ETA factory Darmstadt







Benefits of DUCON Architectural

- Slim structures
- High load bearing capacity
- Reduced loads due to lower weight
- Sustainable construction through material conservation
- Complete freedom in shapingform, color, and surface texture

Technical data

- Compressive strength: 100-200 N/mm²
- Flexural strength: 25-75 N/mm²
- Shear strength: 3-16 N/mm²
- Tensile strength: 9-20 N/mm²
- Thickness: from 35 mm
- Rule of thumb: 30-50% of the thickness compared to RC

Applications

- Facades
- Energy facades
- Balconies
- Columns
- Shells
- Folded Stairs
- Concrete furniture

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