

JUMBO BLOCK ®

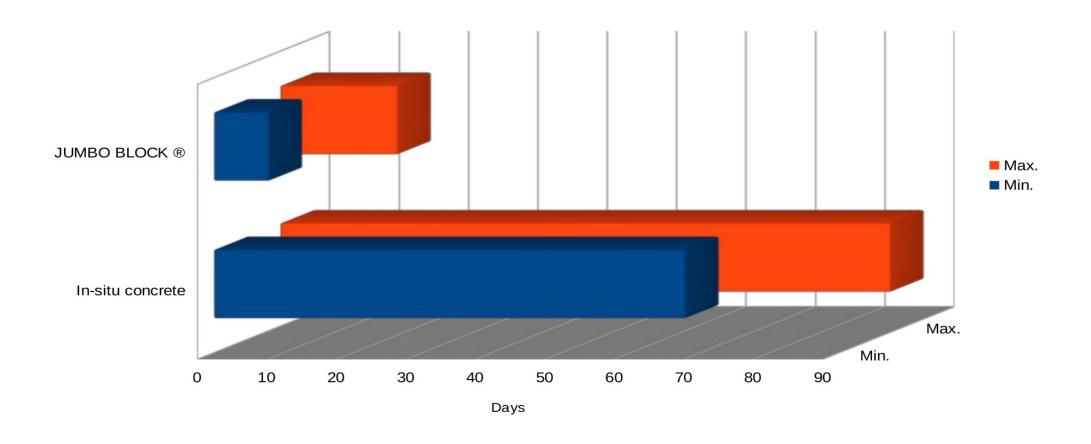
JUMBO BLOCK ® is comparable to in-situ concrete.

- Reinforced concrete!
- High load capacity!
- High resilience!
- Longevity!

TIME SAVINGS

CONSTRUCTION TIME IN-SITU CONCRETE VS JUMBO BLOCK ®

Comparable water storage 1362 m³ / 98 JUMBO BLOCK ®



Example from a project

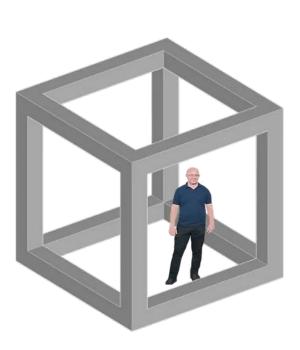


Metrics

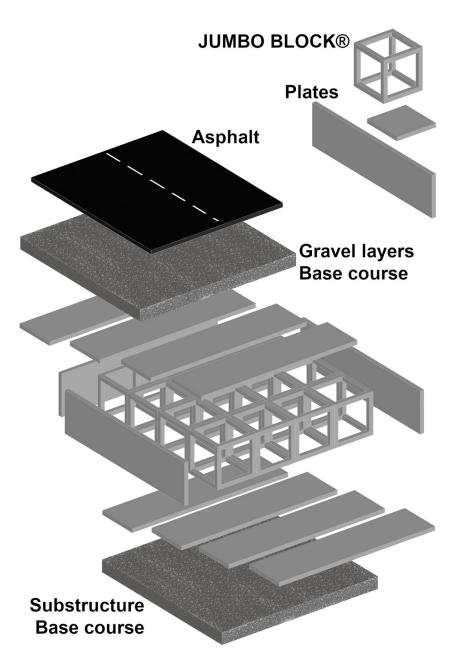
- Load capacity SLW 60
 - Block edge length
 2.5 mx 2.5 mx 2.5 m
- Material
 Mainly green concrete
 (CO2-reduced concrete)
 - Capacity
 13.9 m³ of water/block
 - Volume on area
 2,224 litres/m² water
 column



Mold making Metal Synergy doo



MODULAR CONSTRUCTION

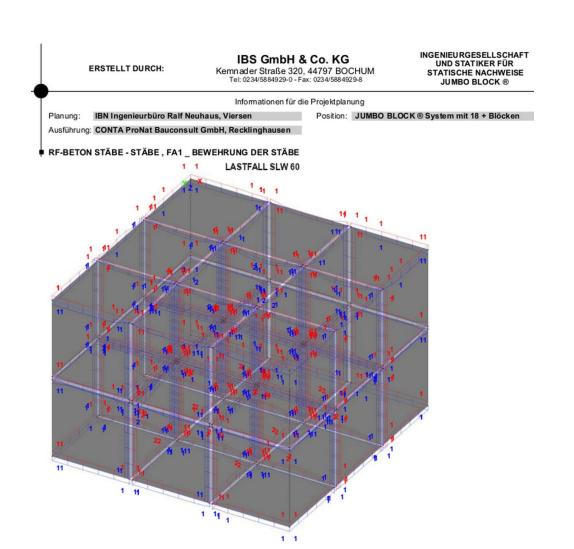


JUMBO BLOCK ® Installation example

- Asphalt surface
- Gravel layers (base course)
- JUMBO BLOCK ® hollow block
- Plates for sealing (min. 2.5 x 2.5 m)
- In case of water storage plates at the bottom
- For water storage waterproofing, geobuilding materials or foils for waterpolluting substances
- In case of infiltration no sealing and open soil

Over 4 tonnes stability

STATICS (EXPERTISE)



Impressive project references

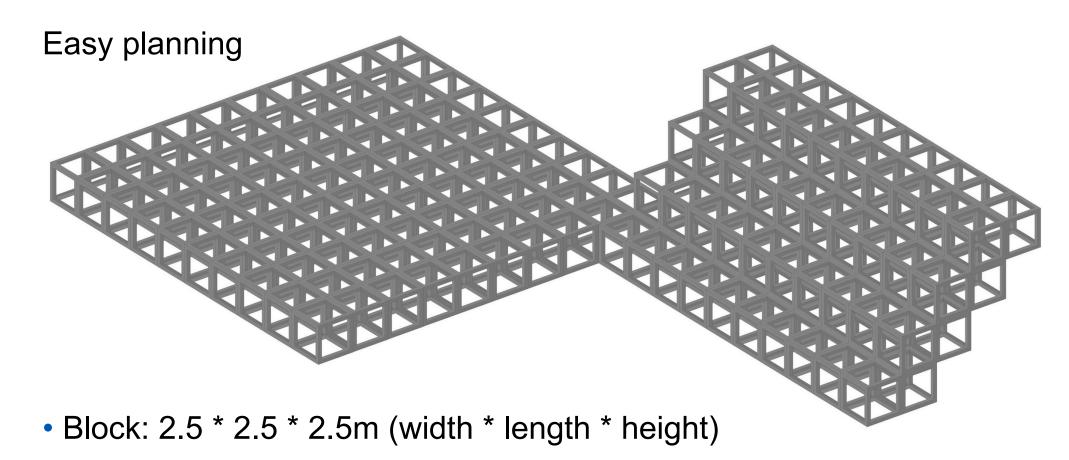
Frankfurt, Germany

- West Side Tower
- Henning Tower
- Residential development
 Stresemannallee

Offenbach, Germany

 Hafengold residential development

FLEXIBLE SOLUTIONS

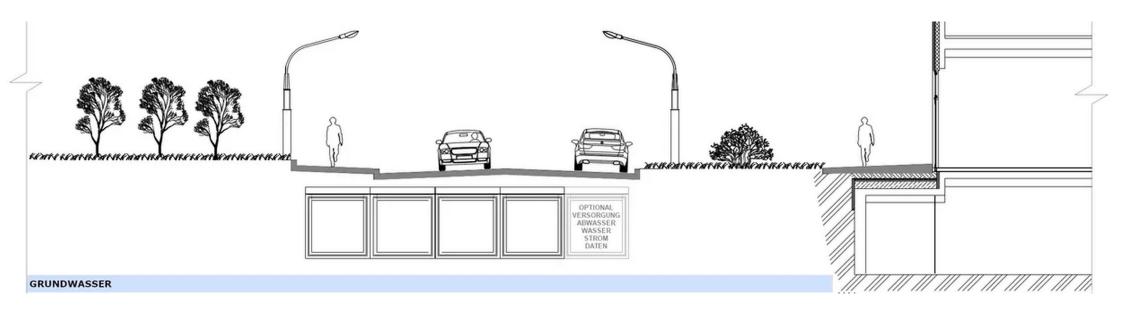


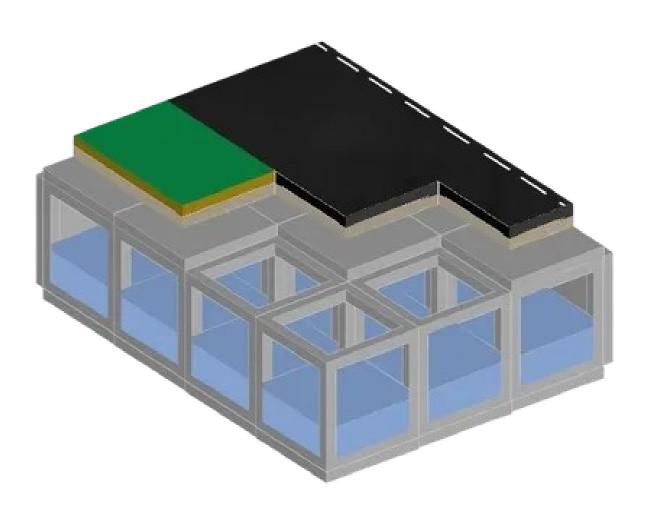
Plates: 2.5 * 2.5 - 10.0 * 0.125 - 0.25m (width * length * thickness)

MUNICIPAL OPPORTUNITIES

Planning freedom

- Can be built over and is roadworthy
- Up to 80% reduction in construction time
- Reduces road works
- Installation of sewerage, supply lines, etc.





Rainwater retention Inner-city retention

- Under streets
- Under squares
- Under buildings
- under open spaces

• ...



RETENTION SPACE DESPITE DEVELOPMENT



FLOOD PROTECTION THROUGH RETENTION

Prevention of flooding

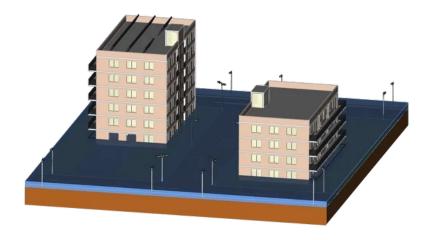
Planning area: 55 x 65 m Building area: 2 x 326.6 m² Lanes: 2 x 4.5 m, 4 x 3.75 m

Substructure of the road 48 Jumbo Block Standard (13.9 m³/block) 116 Jumbo Block XL (27.6 m³/block) 82 heavy duty plates seal

Available retention volume: 3868.8 m³

Expandable

Flood height: 0.0 m



FLOODING WITHOUT RETENTION

Planning area: 55 x 65 m Building area: 2 x 326.6 m² Lanes: 2 x 4.5 m, 4 x 3.75 m

Available retention volume: 0 m³

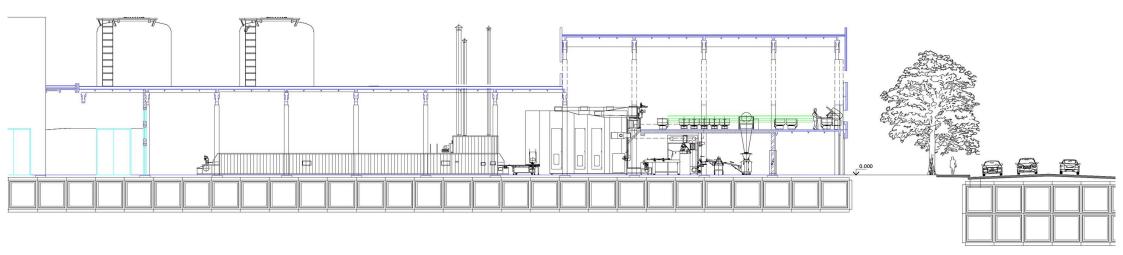
Flood height with comparable volume: 1.02 m



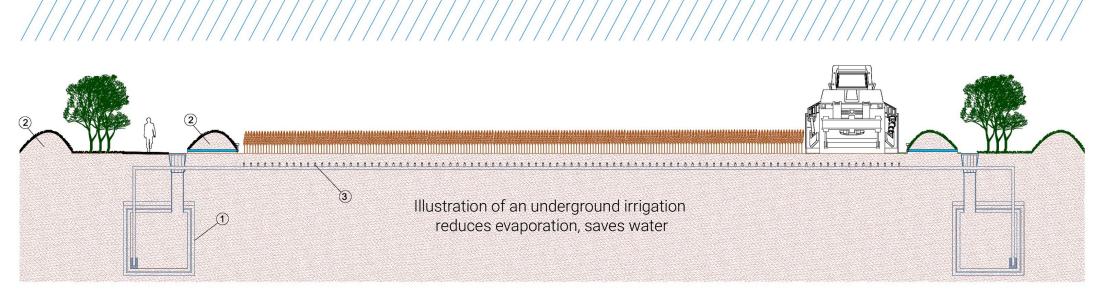
Movie: YouTube

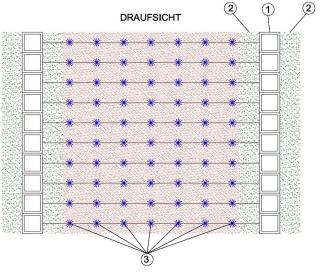
INDUSTRIAL AND CHEMICAL PLANTS

Fire water storage, Infiltration and water storage



AGRICULTURAL OPPORTUNITIES





Solution to soil erosion and water scarcity

Example in the form of underground irrigation.

Any form of withdrawal and distribution is possible!

SMART SOLUTION

Water level data and IoT with IOTA technology



- 1. Water level monitoring
- 2. Data Analysis and forecasts
 - 3. Automated control
 - 4. Intelligent maintenance
 - 5. Transparency and trust
- 6. Benefits for municipalities and infrastructure operators

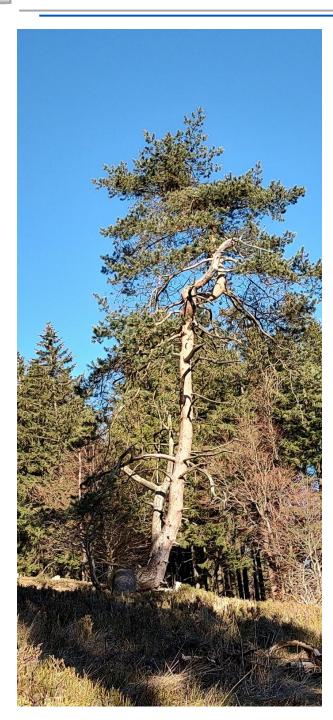
Transmission, for example via Long Range Wide Area Network (LoRaWAN)

ENVIRONMENTAL AND NATURE PROTECTION



- Sustainable material usage through recycling and reuse
- Environmentally friendly recyclability
- CO2-reduced green concrete
- Avoidance of plastics
- Protection of the soil ecosystem
- Preference for environmentally friendly geosynthetic sealants
- Energy-saving IoT systems
- Up to 80% reduction in construction time
- Long life cycle

ENVIRONMENTAL AND NATURE PROTECTION



ADAPTATION TO CLIMATE CHANGE

- Rainwater retention
- Water storage, and infiltration
- Reduction and avoidance of surface sealing
- Increase in groundwater level
- Irrigation and emergency watering of sensitive ecosystems

JUMBO BLOCK ® ADVANTAGES



Prevent water scarcity and flooding!

- Freely configurable
- Easy and quick to install
- Up to 80% reduction in construction time
- Environmentally friendly
- Recyclable, reusable
- High life cycle
- Sealing with geoconstruction materials
- Inexpensive





Thank you for your attention.

It has been a great pleasure for us to share this presentation with you.

We hope you enjoyed it.



Imprint

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