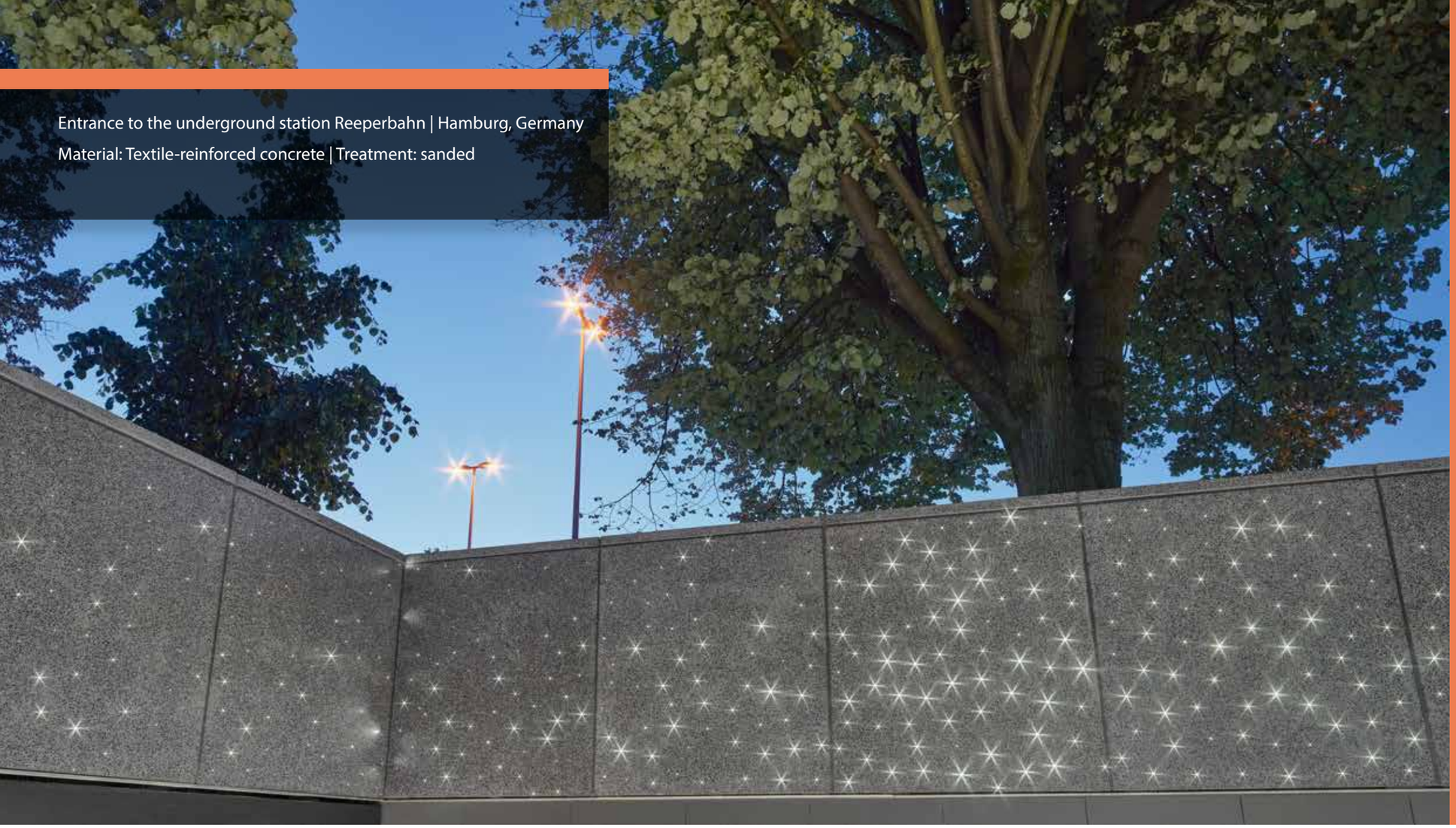
Hering
Architectural
Concrete

SIUT

betoShellSiut®

Light fibre concrete façades by HERING in cooperation with SIUT



Entrance to the underground station Reeperbahn | Hamburg, Germany
Material: Textile-reinforced concrete | Treatment: sanded

Luminous concrete façades

The combination of the betoShell® textile-reinforced concrete system with the licensed SIUT lighting technology opens up unparalleled opportunities for design in the field of building construction: Luminous façades. The targeted integration of fibre-optic cables into the concrete façade elements transforms the material itself into an innovative source of light and allows individual lighting concepts to be realised in new buildings and refurbishment projects. Discreet lighting may be used to create pleasant environments and enhance the aesthetic of façade sections and even large frontages.

Over betoShell®

betoShell® is a textile-reinforced, slim and light concrete façade that meets the highest demands on quality. The elements in the betoShell® FLEX40 system, with a material thickness of 40 millimetres, for example, allow a wide range of design options to be realised in the field of innovative architectural concrete. The elements are fitted with undercut anchors on the rear to enable them to be easily attached to a system substructure. A variety of attractive finishes and colours are available to this end – from acidified fair-faced concrete to exposed aggregate concrete. Concrete slabs that have been reinforced with carbon or glass-fibre fabric are many times lighter and thus more resource-efficient than those where conventional materials for reinforcement.

SIUT Technology

SIUT technology is a patented manufacturing process that permits the targeted and individual integration of optical fibres into pre-cast concrete elements. These radiate light from the concrete, but are neither tangible nor visible when switched off, which therefore helps maintain the concrete's natural properties along with its look and feel.

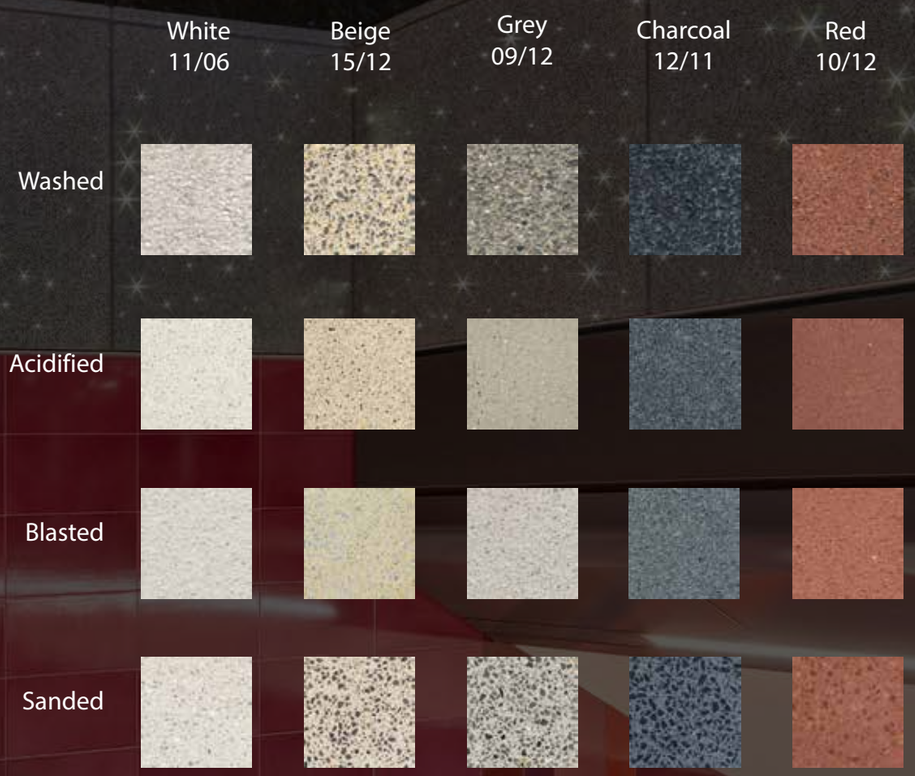
General functional principle

The betoShell®Siut façade elements use SIUT technology. The light is supplied externally and centrally. The façade elements and the light sources are consequently separated from each other, which makes carrying out inspections much easier.

Technial details

Formates max.:	2.400 x 1.200 mm (Z -21.9-2072)
Thickness / weight:	Min. 40 mm / 96kg/ m^2
Façade colours:	White, beige, grey, charcoal, red
Finish:	Finely washed, acidified, blasted, sanded
Surface Protection:	Hydrophobised at the factory, protection against graffiti
Fire class:	Non-combustible, Building Material Class A2 (in Parts A1) in accordance with DIN 4102 -1
Lighting:	LED, RGB LED, control possible with DMX controllers
Light pattern:	Arrows, crosses, lines, star formations, logos and much more
Approval:	Z -21.9-2072 (40 mm, 2.400 x 1.200 mm)
Places of use:	Architectural façades, retrofit façade cladding, cladding of walls in public spaces, e.g. pedestrian subways.

Individual design



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