

Hering
Architectural
Concrete

SIUT



betoShellSiut®

Light fibre concrete façades by HERING in collaboration with SIUT



Entrance to the underground station Reeperbahn | Hamburg, Germany

Material: Textile-reinforced concrete | Treatment: sanded

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Luminous concrete façades

The combination of betoShell® textile-reinforced concrete systems 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 aesthetics of façade sections and even large building fronts.

About betoShell®

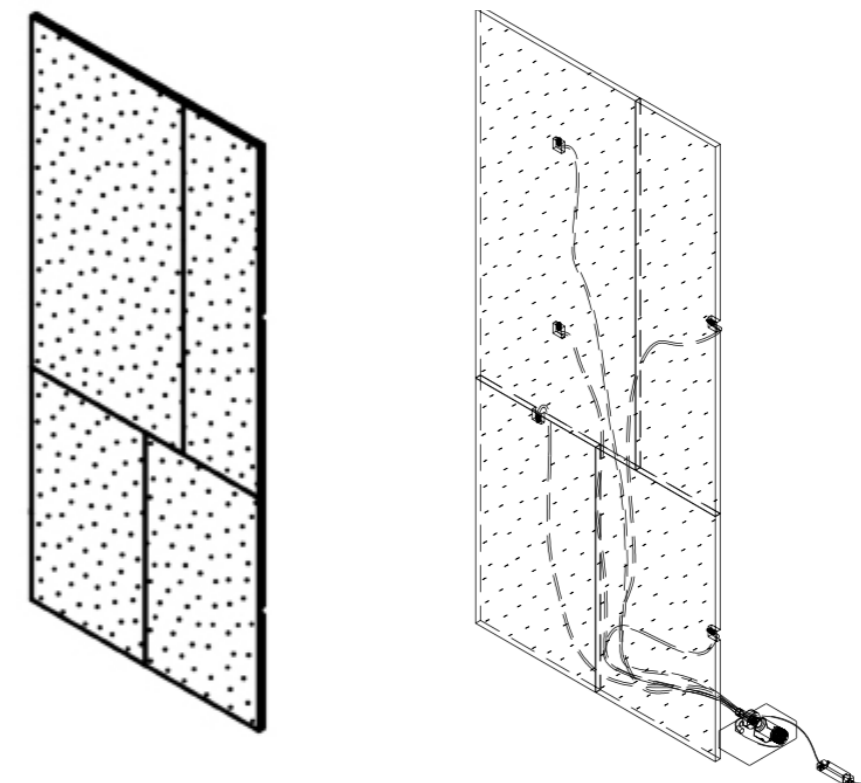
betoShell® is a textile-reinforced, slim and light concrete façade that meets the highest quality demands. The elements in the betoShell®FLEX40 system, with a material thickness of 40 millimetres, for example, allow a wide range of design options to be realised in the field of innovative architectural 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 much more resource-efficient than those where conventional materials are used for reinforcement.



SIUT Technology

SIUT Technology offers a patented manufacturing process that permits the targeted and individual intergration of optical fibres into pre-cast concrete elements. These fibres radiate light from within the concrete; but are neither discernible or visible when switched off. And therefore helping to maintain the concrete's natural properties along with its look and feel.








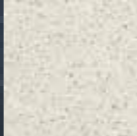
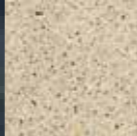




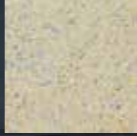
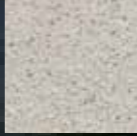



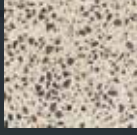



General functional principle

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.

Technical details

| | |
|---------------------|---|
| Formates max.: | 2.400 x 1.200 mm (Z-21.9-2072) |
| Thickness/ weight: | Min. 40 mm / 96 kg/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 cont rollers |
| Light pattern: | Arrows, crosses, lines, star formations logos an much more |
| Approval: | Z-21.9-2072 (40 mm, 2.400 x 1.200 mm) |
| Places of use: | Architectural concrete façades, retrofit façade cladding, cladding of walls in public spaces, e.g. pedestrian subways |

Individual design

| | White 11/06 | Beige 15/12 | Grey 09/12 | Charcoal 12/11 | Red 10/12 |
|-----------|---|---|---|---|---|
| Washed |  |  |  |  |  |
| Acidified |  |  |  |  |  |
| Blasted |  |  |  |  |  |
| Sanded |  |  |  |  |  |

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