LUCEM LINE: Due to a fine-meshed structure consisting of light transmitting fibers, the impression of a lightweight structure which in conjunction with illumination elegantly reveals silhouetted objects.

LUCEM STARLIGHT: Fibers with different diameters are used in irregular distances in between each, forming a punctual transparency like the impression of a starlit night. The concrete material disappears into the background.

LUCEM LABEL: If required, the light transmitting fibers can be arranged in logos, names or icons – a guarantee for an individual, distinctive appearance.

color variation: white (picture enlarged)
color variation: grey (picture enlarged)
color variation: anthracite (picture enlarged)
LUCEM light transmitting concrete is offered as untrimmed panels in different colors and thicknesses. The panels are calibrated and polished.

**Formats:**
- Gross appr. 1250 mm x 650 mm
- Appropriate min. 1200 mm x 600 mm

**Thickness:**
- 15 mm / 30 mm

**Colors:**
- White / Grey / Anthracite

**Texture:**
- Line structure
- Terrazzo structure

**Compressive strength:**
- > 70 N/mm²

**Density:**
- Ca. 2400 kg/m³

**Building material class:**
- A1/A2, not flammable

**UV-stability:**
- Durable acc. to ETAG 005 TR 010 „severe“

**Tolerances:**
- Length, width, height and evenness acc. to DIN EN 1341

**Testing institutes:**
- Materialprüfungsamt NRW, Dortmund
- Brandprüfzentrum, Erwitte
- KIWA Polymer Institut, Flörsheim-Wicker

**Installation:**
- The mounting of LUCEM concrete panels is similar to the mounting of natural stones, regarding processing, strength and tolerances.
- The installation systems include visible screw installation, undercut anchor (e.g. KEIL, Fischer) and lateral pin fixation (e.g. Halfen).

**Designobject and special formats**
- The cutting of panels in any shape can be realised with high precision water-jet cutting. The materiality of concrete and the flexibility of optical fibers enables the creation of even unexpected forms. Due to this, single objects or limited-lot productions may be realised, fitting the specific demands and being perfectly adapted to the building project.

**Illumination**
- Diffuse natural light and sun light provide the full spectrum of colors shining through the LUCEM panels. Artificial light sources can be used depending upon the application for single colors or even fascinating effects by giving completely new possibilities regarding rooms and surfaces.

**Illumination systems**
- For an evenly distributed illumination of LUCEM concrete panels, a specially developed lighting source can be provided. This LUCEM Lightpanel consists of a ultra-flat acrylic panel with two-sided light feeding. This highly efficient and energy saving LED lightsource is available in white or colored light, with or without color changing mode. The entire installation height does not require more than 1 cm.

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Extension of the main administration building of SIGNAL IDUNA insurances, Dortmund

**Architecture:** HPP Hentrich-Petschnigg und Partner
**Artwork direction:** Sassan Philipp Haschemi & Associates

**Material:** LUCEM LINE, white
**Format:** 120 cm x 60 cm

Roomconcept, color design, materiality and art: those were the main subjects, Sassan Philipp Haschemi & Associates worked on, picking LUCEM LINE panels as a special highlight. LUCEM light transmitting concrete panels for the entrance hall and the executive suite. The LUCEM LINE panels have been designed as floor to ceiling wall claddings utilizing free space behind the panels for light supply. The special color of the light source was made consistent with the colors of the interior design by using a LED source with warm-white light. The single LUCEM panels have been installed nearly without gaps. Thus, the inner structure of the panels seems to glow from inside itself. Due to the ease of processing, all operating elements and displays have been integrated completely planar to the surface.

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**Completion:** September 2010

**Roomconcept, color design, materiality and art:** Sassan Philipp Haschemi & Associates worked on picking LUCEM LINE panels as a special highlight. LUCEM light transmitting concrete panels for the entrance hall and the executive suite. The LUCEM LINE panels have been designed as floor to ceiling wall claddings utilizing free space behind the panels for light supply. The special color of the light source was made consistent with the colors of the interior design by using a LED source with warm-white light. The single LUCEM panels have been installed nearly without gaps. Thus, the inner structure of the panels seems to glow from inside itself. Due to the ease of processing, all operating elements and displays have been integrated completely planar to the surface.

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