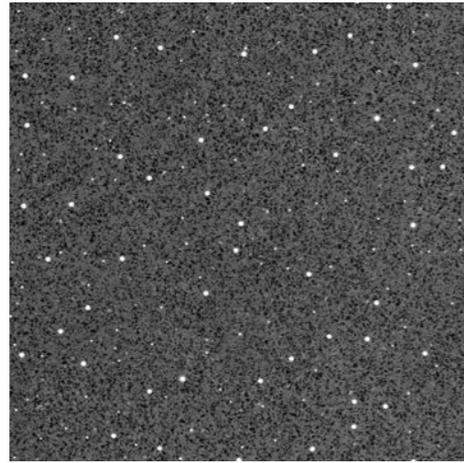
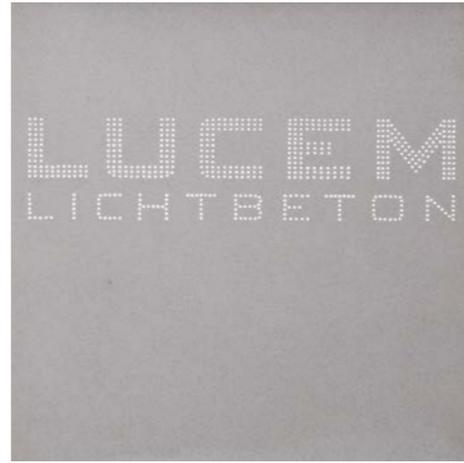


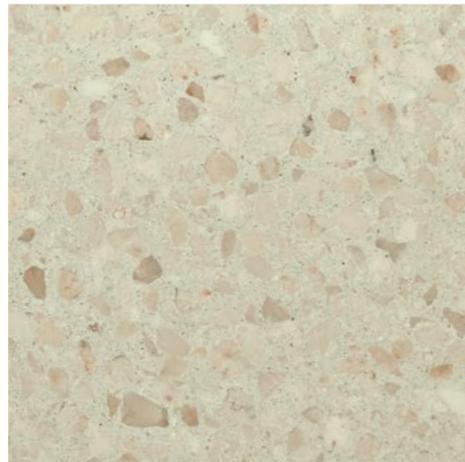
LUCEM LINE: Due to a fine-meshed structure consisting of light transmitting fibers, the impression of a lightweight structure which in conjunction with illumination elegantly reveals silouted objects.



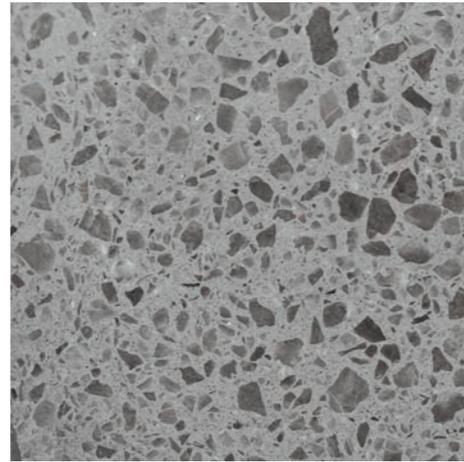
LUCEM STARLIGHT: Fibers with different diameters are used in irregular distances in between each, forming a punctual transparency like the impression of a starlit night. The concrete material disappears into the background.



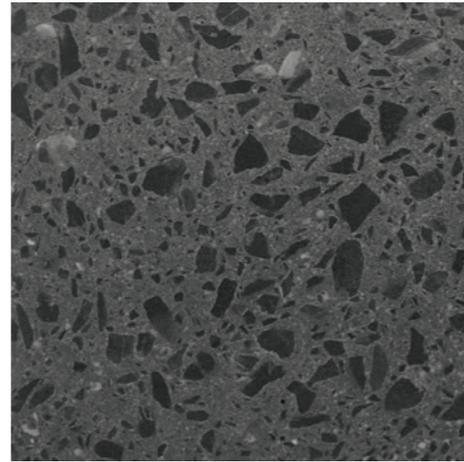
LUCEM LABEL: If required, the light transmitting fibers can be arranged in logos, names or icons – a guarantee for an individual, distinctive appearance.



color variation: white
(picture enlarged)



color variation: grey
(picture enlarged)



color variation: anthracite
(picture enlarged)

LUCEM
LICHTBETON

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Extension of the main administration building of SIGNAL IDUNA insurances, Dortmund
Completion: September 2010
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 Philip 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 utilising 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.



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 appropriable min. 1200 mm x 600 mm variable cuttings, edge processing, notches and mounting holes on request
thickness:	15 mm / 30 mm
colors:	white / grey / anthracite
texture:	line structure terrazzo structure
compressive strength:	> 70 N/mm ²
density:	ca. 2400 kg/m ³
flexural strength:	> 5 N/mm ²
building material class:	A1/A2, not flammable
UV-stability:	durable acc. to ETAG 005 TR 010 „severe“
tolerances:	length, wide, 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 similiar to the mounting of natural stones, regarding processing, strength and tolerances.
installation systems:	visable screw installation undercut anchor (e.g. KEIL, Fischer) 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.