

New developments in translucent concrete

LUCCON-Lichtbeton GmbH introduces facade solutions and translucent concrete elements with a k-value of up 0.18 w/m²K.

Translucent concrete can be considered one of the most beautiful, noble and mysterious product innovations in the last years. Translucent concrete cannot be described, one has to experience this mystical material in order to understand it.

LUCCON Lightconcrete is a combination of modern concrete and embedded fiber optic cables. Fiber upon fiber light is projected through the construction element – for example images beyond a wall appear pointwise or digitized on the opposite side, regardless if they are shadows, light, colors, projections or displays. The dimensions of the construction element are basically irrelevant with one exception:

With increasing thickness the experienced image on the hidden side appears increasingly peculiar and strange.

Moving images are displayed in a fascinating manner and make the stone surface look iridescently lucent. The transparency of the stone lets one suspect more than is shown and suggests a curious airiness in spite of the heavy compactness.

LUCCON characteristically transforms back into stone when it changes from dark to light – or when a wall wanders from day into night.

If we see the activities of the outside world as moving silhouettes in a room during the day, the stone surface gives witness to the inner life of a building at night, selectively displaying animation and becoming an informational medium.

Artificial light was the fundamental element for the creation of a dynamic world with a permanent media presence, a reflection of globalization. Light is omnipresent and is increasingly developing into an image icon considered trend setting in modern architecture. Compactness, light and transparency are unified in stone – LUCCON meets the pulse of time.

To date LUCCON has been utilized in facades in combination with insulating glass, all imaginable variants and layer thicknesses are possible.

For example, the watch manufacturer *A. Lange und Söhne* used LUCCON for the facade of their flagship store near the Church of our Lady in Dresden. Other stores of Lange & Söhne in Singapore, Tokyo, Shanghai and Katherine Burg use LUCCON in the interior. LUCCON sheets with a thickness of 20 mm were laminated on insulating glass. The facade and the display cabinets form a creative unity, illuminated attraction and nevertheless an elegantly reserved background for the presentation of high end international watches.

Keen vehicle manufacturers use LUCCON in form of a 0.5 mm thin veneer in combination with a transparent and back lit substructure. A unique highlight: the thin material can be formed three-dimensionally – no limits to the imagination of the designers.

The quantity of implemented objects will be enhanced now with more spectacular objects, since the serial production of LUCCO^{therm} has kicked off in the LUCCON-Lichtbeton GmbH factory in Austria.

An innovative method has made it possible to produce thermally separated elements with the same transparency as the “standard” product. On both sides – outside and inside – LUCCOthem shows the attractive LUCCON look in spite of an insulating layer.

But not enough: The construction modules with a k-value of up to 0.18 W/m²K will be available as story level high elements in 2009.

There was also a lot of activity in the “smaller” areas. LUCCOthem building bricks with a length of up to 250 cm and height of up to 80 cm are available in various thicknesses and insulation values, including a dummy brick without fiber optic cables to round off the system. All LUCCON elements regardless of color, dimensions or design are available in diverse surface finishings and coatings.

We are looking forward to architects who have unprecedented and highly esthetic objects at their disposal. Stone walls coming to life and telling stories – let’s open a new chapter!

Pictures:

-A. Lange & Soehne Watch Manufacture

-LUCCOsheet

-LUCCOthem

Please note:

Manufacture: LUCCON-Lichtbeton GmbH

Distribution: MaterialArt GmbH

www.LUCCON.com