

LCT Light & Concrete Technology

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- Idee
- Markt
- Wettbewerb
- Umfassender Patentschutz
- Sortimentsentwicklung
- Massen oder Design Produkt
- Vertrieb

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The Idea

LCT connects light, concrete and technology with the objective of developing products that are capable of being manufactured in an innovative and flexible as well as easy and affordable manner.

A handwritten signature in cursive script that reads "Henry Ford".

In the same way as Henry Ford made an revolution in producing cars in an industrial manner, reducing costs and increasing turn overs, LCT is revolutionising the market for Translucent Concrete Products.

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Financial Times December 2012

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.....it could inspire architects and designers to rethink the way buildings are made, to use concrete to create new types of wall and room, to make structure itself vibrant and decorative. It is an idea that reinvents concrete in such a way as to shake off those negative connotations of multi-storey car parks and city underpasses.



The stuff of modernity cements its reputation

Edwin Heathcote
Material culture



Concrete has been the dream material of modernity for more than a century. It can be moulded and formed, it can be polished, sculpted and built luminous. It can be smooth and shiny, or gritty and graffitied. But it can all too easily be messy and obscure, cracked and stained, a nightmare for those who have to live in the degraded, perpetually leaky and unpredictable of a degenerated modernist origin. Yet despite those dystopian associations, no material has been so consistently reinvented, recycled, reimagined and recreated in contemporary design. From its variations to complex decorative relief wall tiles, there has been a move away from concrete's more obvious applications to give mass, strength and stability to delicate or conceptual uses in which its associations and crafted qualities are allowed to shine through.

At October's PAD London fair will present was the Most Honesty Design Prize with his conceptual work based around the history of a north London manufacturing site reusing old concrete for a table and a pendant light. Concrete has been shining off in lighting design in recent years, with Benjamin Hubert's beautiful slip-cast, thin-walled concrete "Bevy" lights and Proserpio's Agnelli range designed by Paolo Loschi and Luca Fioeré. At the same time German designer Tim Mooney is working with a new kind of concrete in his

"Felt" lamp and "Felt" stool – a fibre reinforced material that is moulded out and filled manually into desirable moulds. In each of these, the delight is in seeing something discrete or traditionally crafted made from a material as stinky as concrete. Among the most striking and innovative is Litracon, invented by Hungarian architect Aron Lozonca. Litracon is a concrete in which thousands of optical glass fibres are embedded in parallel but irregular strands, allowing the material to transmit light. The effect is extraordinary as light penetrates from outside, making silhouettes of passers by appear on a seemingly solid wall.

That it can be used structurally as well as the more remarkable fire-retardant capacity by only a couple of per cent. What is so exciting about Litracon is that it could inspire architects and designers to rethink the way buildings are made, to use concrete to create new types of wall and room, to make structure itself vibrant and decorative. It is an idea that reinvents concrete in such a way as to shake off those negative connotations of multi-storey car parks and city underpasses.

Then there is "Litracon", a horribly-sounding but actually quite remarkable development by artist Heide Eisenmann and architect Thordur Elstad. This is a concrete in which tiny reflectors are set, acting like infinitesimal

mirrors to catch and reflect the light and to create luminous surfaces with applications that range from sculpture to traffic safety. Then, from Dutch designer Studio Moser comes "Solid Poetry" – a concrete surface that reveals hidden patterns when it gets wet, an idea that would suit any public space or bathroom floor. Perhaps most remarkable of all is the recent suggestion by Dutch scientist Henk Jonkers of the Delft University of Technology that many of concrete's familiar woes could be solved by implanting bacteria at the construction stage. These micro-organisms would be dormant inside the material until water penetrated deeply enough to indicate that there was a problem, at which point they would activate and begin to repair cracks in the material in the way that bats have built their own houses.



Aron Lozonca's 'Litracon'

Water penetration in concrete is a problem because it erodes the steel reinforcement bars that hold the structure together, the bars subsequently rust, expand and cause the concrete to crack and spall. Reinforcing themselves on the water and carbon in the concrete, the bacteria would grow and produce a kind of cement, plugging the gaps and filling the cracks, making it virtually 'self-healing'. Scientists from Delft University are also developing a product along these lines, sensibly named "BioReinfill". Within that name is also the niggling concern about what might happen if those microbes escaped and started to multiply, producing a solid world of concrete-concrete and filling every conceivable gap, but the scientists assure us that the microbes will remain contained in place.

More than the decorative uses of concrete mentioned here, this is an idea that could have radical, far-reaching consequences. Motorways, bridges, roads, pipelines and other major engineering infrastructure could be fixed in this way without the kind of disruption seen in London below the Olympic. Even more remarkable would be the use in earthquake zones, where there is no way to stabilize existing structures and often no resources to rebuild them. It is an idea that, quite literally, fills a gaping hole in architecture.

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The Applications



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The Applications



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The common way of Production – Flood Method



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The Production of Translucent Facade including mechanical load capacity





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The LightStone

https://youtu.be/HKvnLo_tNfl





LCT-security®

BRAND NEW !
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email: office@lct.co.at



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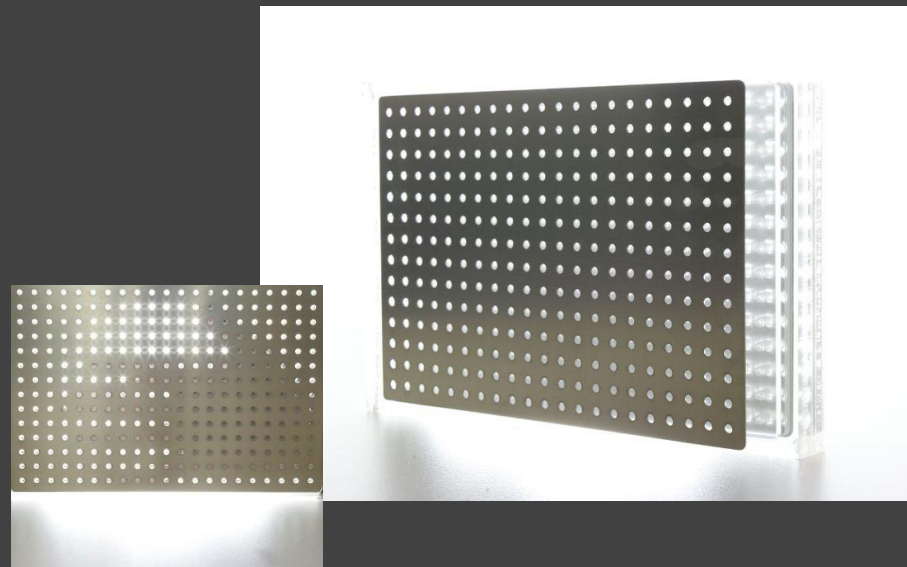


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The Production of Translucent Sandwich Panels

Sanwich Panels with Aluminum coverage are the right product for light weighted shear wall constructions and nearly in any high-building applicable.



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The Production of Translucent Sandwich Panels



Office Buildings, Ware Houses, Stores and any other similar building.

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The Patents

LCT keeps Patents for Europe, UK, Russia, China, India, Japan, Arabic World, USA and Canada for the industrial production of the mentioned applications.

LCT Technology reduces the production costs relevantly by increasing the stability of the concrete facades, slabs and bricks with its patented way of production.

The Contact

For more details do not hesitate taking the opportunity contacting us at

[https://www.youtube.com/watch?v= Fjgcgjvsig](https://www.youtube.com/watch?v=Fjgcgjvsig)

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