

Litracon

Light-transmitting concrete



The patent protected Litracon® products present the phenomenon of light transmitting concrete in form of widely applicable new building materials. They have been being developed by Hungarian architect Áron Losonczi since 2001.

World's first commercially available transparent concrete Litracon® is a combination of optical fibres and fine concrete. It can be produced as prefabricated building blocks. Due to the small size of the fibres, they blend into concrete becoming a component of the material like small pieces of aggregate. In this manner, the result is not only two materials - glass in concrete - mixed, but a third, new material, which is homogeneous in its inner structure and on its main surfaces as well. Litracon® is a fully handmade product which results an exceptional and individual pattern of light in each piece.

Contrary to Litracon®, in Litracon pXL® optical fibers are replaced by a specially formed and patented plastic unit. This change and the industrialized way of manufacturing bring the new pXL material into a more affordable price range. The panels are reinforced and can even be storey-high that makes installation easier. The light dots appear with regular distribution on the surface of the pXL® panels just like pixels on an LCD screen. Besides, it is easy to create patterns or even coloured logos out of the pixels. It is also possible to create not only plain panels but 3D objects e.g. folded or curved forms, hollow bodies with the Litracon pXL® technology. Among many others, this option can give ideas to design e.g. public statues or illuminated street furniture.

Litracon® and Litracon pXL® can be applied in several fields of design and architecture, e.g. as illuminated façade, window shade, inner partition wall or as a decoration element in interior architecture.

Litracube® ambient lamp is the very first own design product of the Litracon company designed by the inventor. It is made of award winning Litracon® and is available in three colours.



red dot design award
winner 2005



DESIGNPREIS
2006
NOMINEE



Litracon®



Litracon **DXL**®





Litracube
Lamp



Litracon®

form:	prefabricated blocks
ingredients:	concrete, optical fibres (glass)
maximum size:	1200x400mm
thickness:	25 - 500mm
colours:	white, grey, black
finish:	polished

Litracon pXL®

form:	prefabricated and reinforced panels
ingredients:	concrete, transparent plastic units
available thicknesses:	40mm, 60mm
maximum size (40mm):	1200x600mm
maximum size (60mm):	3600x1200mm
colours:	white, grey, black
finish:	molded, washed, polished

Litracube® lamp

form:	interior ambient lamp
materials:	Litracon, glass, stainless steel
size:	175x175x221mm
bulb:	E14 / 220V / max. 60W
designer:	Aron Losonczy

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