



MAGNA.

GLASKERAMIK

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MAGNA GLASKERAMIK REFERENCE FACADE –

Cannon Place Lightwall, London, United Kingdom.
Foggo Associates, MCM Architects, OAG.

Cannon Place is a distinctive building by Foggo Associates Architects located in the City of London directly above Cannon Street Mainline Station and Underground Stations. Eight storeys high the building has large floor plates of almost 50,000 square feet. The building is also virtually column free with long span floor beams 21.5metres long and a distinctive external structural skeleton. Access for construction was particularly challenging with no provision for large items to be delivered into the building as it was above Tube platforms the architect developed and agreed a gantry type solution with Network Rail/Building Owners and City of London.

This confident glass structure in the City of London is a masterpiece in architectural glass, with its awesome cantilevered exo-structure supporting eight floors of virtually column-free, open plan office space inside, Cannon Place is one of the most innovative architectural structures within the Square Mile.

It's a building that's all about glass and all about light. Rather symbolically, one of OAG's key contributions to it was a spectacular light wall made of Glaskeramik backlit that illuminates the entrance to Cannon Place Station. That wall isn't just for show. It communicates the building's modern, high status, high spec qualities in a refined way.



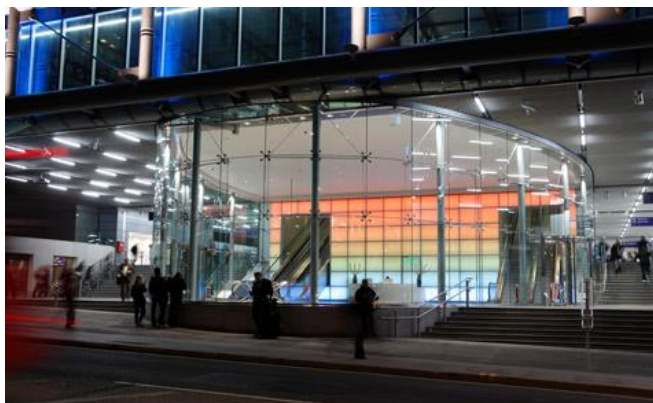
Cannon Place exemplifies beautiful design and engineering ingenuity.

The 120 M2 feature wall incorporates ninety light-sheet panels using Polar White Magna Glaskeramik, each is laminated for safety, Spanlite provided each edge-lit by two rows of Cree RGB-R LEDs. These panels provide the back-lighting.

The 12,000 colour LEDs are all addressable via a DMX signal, allowing each of the 90 panels to be controlled to produce spectacular lighting features as and when needed. Furthermore, the lighting sequence across the



whole wall has been designed to be remotely programmable via the internet, giving the client freedom to update or change the lighting sequence with the minimum of effort. It's even possible to create text messages that display across the wall if required – all being done from a remote office anywhere in the world.



Magna manufacture the material from glass industry waste-stream, in this case from Solar PhotoVoltaic Glass producers, these industries forming flat glass or bottle glasses, the waste is then reprocessed in a controlled way without additives and the outcome reflects the input material. Green beer bottle source will produce a dark green and low iron glass from solar panels can provide a very white coloured Glaskeramik as seen here it is also translucent. This material is circular as it has no additives (such as a resin bond which many companies resort to reduce the issue of tension) and is categorized as crystallized glass ceramic in its nature and character much as a tested ceramic slab.



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The technology allows for the growth of these strong crystals and deals with the air bubbles captured by the sintering process whilst also removing the tension in the sheet formation. This means that the true advantage against cast glass types is that the material slabs (of both 2780x1260mm but also 3500x1500mm maximum sizes) can be premade and stocked in quantity affording a swift processing for projects. The material thus covers the glass, ceramic, cast glass and the natural stone market but offers light translucency and randomized interior details. The patinated, natural surface offers an unusual textural and aesthetic effect in the changing light and weather conditions which makes it stand out amongst the usual façade solutions.



The material is made in Germany with a wealth of leading glass consultancy and technical advice in order to create a stable tension-free outcome. If you would like to know more about this exciting new material or require technical advice, please contact the author or via the manufacturers website.

www.magna-glaskeramik.com

Magna Glaskeramik GmbH is pioneering the circular economy in its production of 100% recycled and 100% recyclable façade material which is being taken up by global accreditation and test data, the water use is also circulated within the plant and the energy use is offset by a large solar array on the roofscape.



Photo Credits: Hines, OAG, Spanlite, Andrew Savile

European Test Approval for Anchored Rainscreen,
ISO 9001, EN 12600, Cradle2Cradle Gold Cert.
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