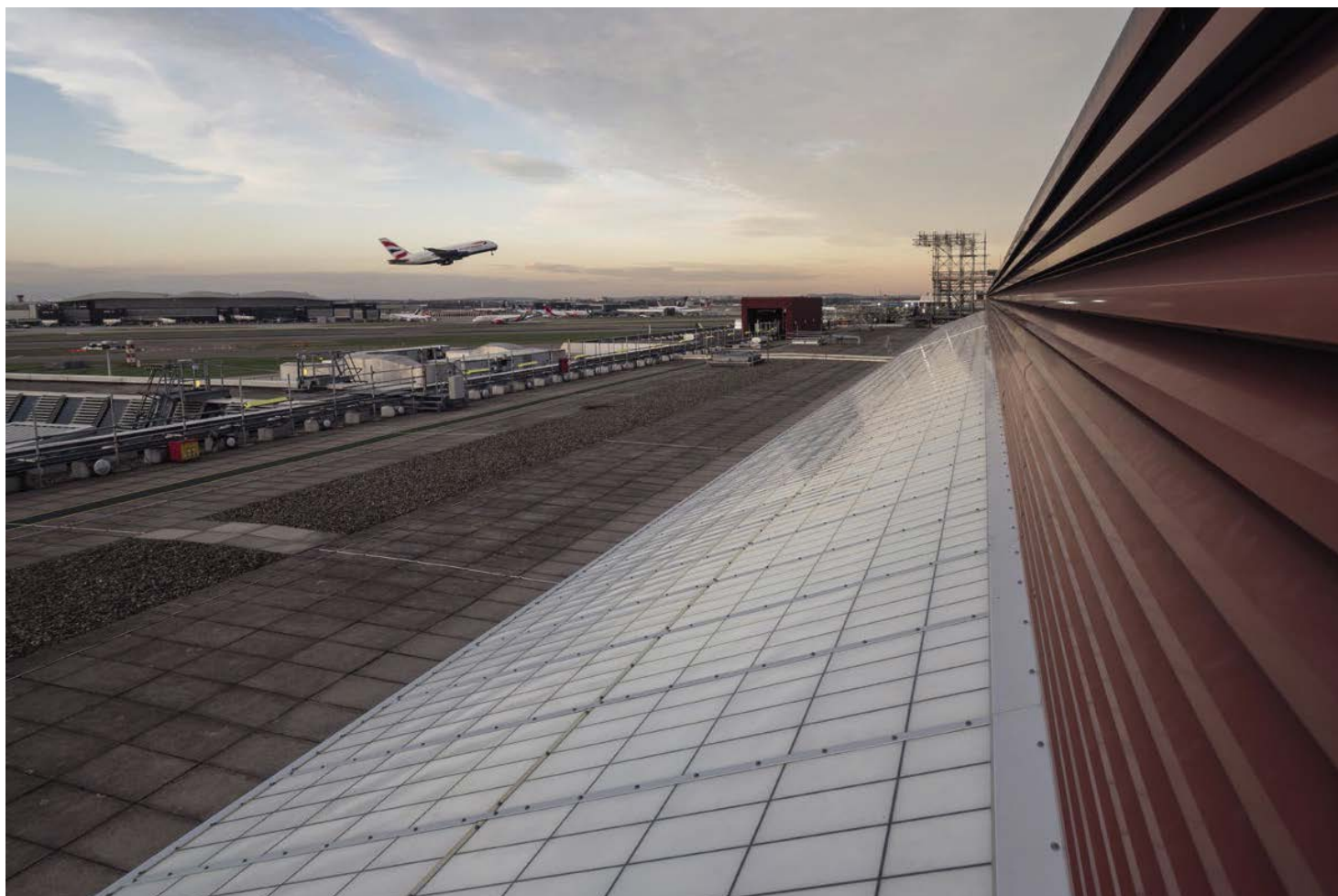


STRUCTURA UK

RETROFIT & RENOVATION

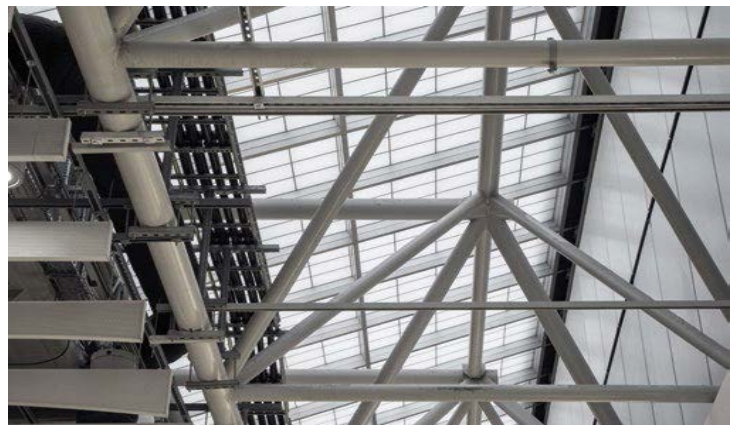


One of our most impressive recent projects has been a challenging but fascinating 'replace and refurbishment' project at Heathrow's T4. It was carried out in conjunction with Structural Engineers Webb Yates for a scheme designed by architects Pascall+Watson. The project proved so successful that main contractor Balfour Beatty named Structura as their 'Most Promising New Supplier 2018'.

Replacing ageing glass rooflights originally installed in the 1980's, 1750 square metres of Kalwall Skyroof cladding is being used above the Terminal's International Departure Lounge and check-in desks. Fully ASAID compliant with regards to blast performance, Kalwall improves the solar control and insulation for the space below. In this project, its inherent strength in a lightweight frame means the existing substrate could be adapted and reused - saving £7m in project costs and more than a year from the build programme. The whole retrofit was completed externally in 'engineering hours' using a bespoke moving scaffold, meaning there was no disruption to the inside of the building.

Ben Hooper Senior Project Manager at Heathrow commented, "I was proud to be part of this project, Structura UK were a new supplier to the major capital projects programme on the Airport, they delivered a flawless installation despite multiple challenging circumstances including adverse unseasonal weather, unexpected contaminated materials and multiple design changes. It is testament to the (Structura) management teams and delivery technicians that they were able to work in the pressurised, secure and constrained Airside environment with multiple subsidiary stakeholders and suppliers without any issues on such a complex project.

Such was their performance it was as if they had been integrated with the other supply companies for many years and the feedback has been that none of them would hesitate to work with Structura again. I look forward to delivering more successful projects with them in their field of expertise."



RETROFIT & RENOVATION IN ACTION

Kalwall's self-supporting lightweight frame makes it a perfect choice for retrofit projects. Compared to double or triple glazing which can often exceed the structural limits of existing substrates, Kalwall minimises the need for additional structural supports.

In addition, the performance advantages of improved U-values, better ventilation, solar control, privacy and daylight autonomy coupled with improved aesthetics make it a natural choice for architects and specifiers.

GLASGOW INTERNATIONAL AIRPORT

The original 1958 concrete framed building was failing due to decay and ingress of water and needed structural stabilisation. The renovation required removal of the old concrete spandrel panels and repairs to the concrete structure.

It was then overclad with Kalwall panels supported on a new steel frame which was added to extend the floor space. (DSP Architecture)



CROUCH END PICTUREHOUSE

This project was a complex extension and conversion of an existing office block in London's Crouch End to create a new Picturehouse Cinema. Similar to Featherstone, the concrete

spandrel panels have been removed and the whole elevation clad with Kalwall's Verti-Kal. Here, the Kalwall panels insulate to a U-value of 0.78. (Panter Hudspith Architects)



UNIVERSITY OF LIVERPOOL

The University of Liverpool Sports and Fitness Centre pool, originally built in 1966, has been transformed by using Kalwall to replace the existing planar glazed bolted glass assembly. Diffused

daylight now bathes the interior and pool surface reducing glare and hotspots and creating better visibility better for users and lifeguards. (Atkins)



WHAT IS KALWALL?

Kalwall, developed and manufactured in the USA for over 60 years, is a highly insulating, diffuse light transmitting building panel system for walls and roofs and can be used for daylighting spaces from small units to large areas of up to 30 metres. The primary component is a translucent structural composite sandwich panel formed by permanently bonding specially formulated fibreglass sheets to a grid core constructed of interlocking thermally broken extruded aluminium 'I-beams'.

Panels are factory prefabricated to the exact size and configuration for each project. Panels can be flat or curved while opening or fixed glazed window units can be incorporated using the integral Clamp-tite™ installation system.

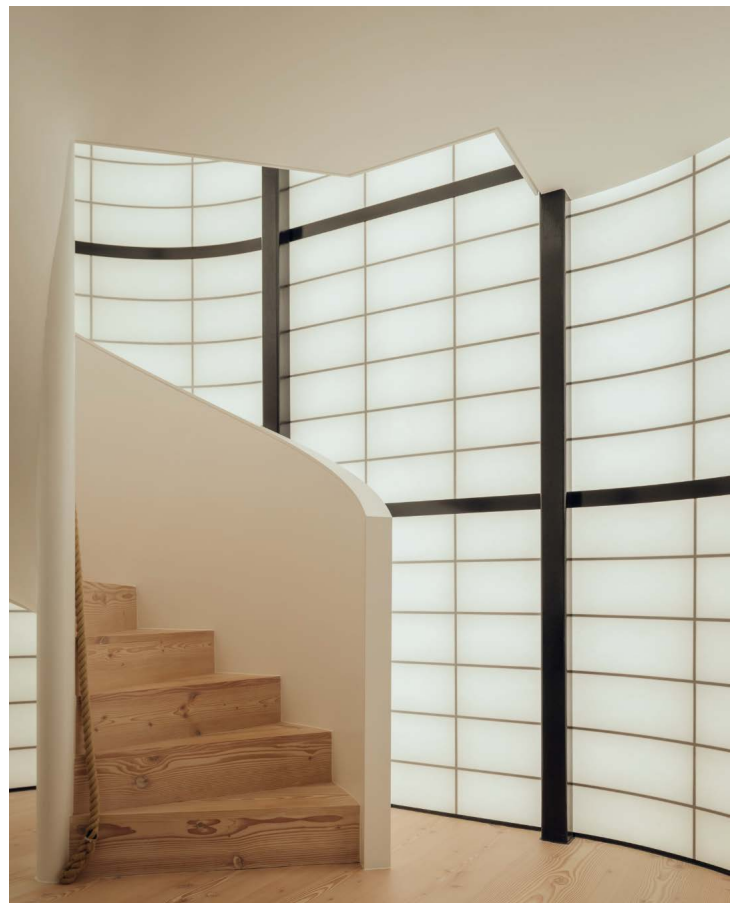
Kalwall's unique composition combines to reduce solar gain while at the same time maximising thermal insulation. Kalwall diffuses light so efficiently that even direct sunlight is converted into even illumination with reduced glare.

Kalwall is able to transmit large amounts of usable daylight into a space with relatively low levels of light transmission. Panels can be selected to transmit various percentages of light according to individual project requirements. Kalwall has been tested according to the procedures of EN13830:2003 – Curtain Walling Product Standard for CE Marking.

STRUCTURA & KALWALL

Structura UK is the leading supplier, fabricator and installer of glass curtain walling, rainscreens, glass atria, windows and other architectural glass building products.

The company is also the exclusive distributor for Kalwall translucent daylight building systems in England, Wales and Northern Ireland.



WHO ARE STRUCTURA?

\$STRUCTURA

For over 35 years we've specialised in the delivery of commercial glazing renovation projects throughout the UK and Ireland. In partnership with leading European curtain wall system manufacturers and glass producers, we undertake bespoke, ambitious and out-of-the-ordinary projects, drawing on our collective experience to solve problems before they arise.

Our Founding Directors remain influential in our day-to-day business, representing an important constant from our initial start-up days to the present. Today, we are a team of over 100 members from more than 15 nationalities, working from multiple locations (and remotely, in light of our new, progressive hybrid working practices).

Through our own exacting standards of excellence and accreditation, we've been trusted with the refurbishment of some of the highest profile landmarks in the UK including Grade II listed properties such as The Post Office and Devonshire Square in London, Eastbourne's Congress Theatre and more recently, Sir Nicholas Grimshaw's Herman Miller Factory in Bath.

Our family values remain at the heart of what makes us tick – ensuring we act with integrity and sincerity in every project we put our names to. In short, we're every bit as invested in the success of our work as you.

CONTACT:

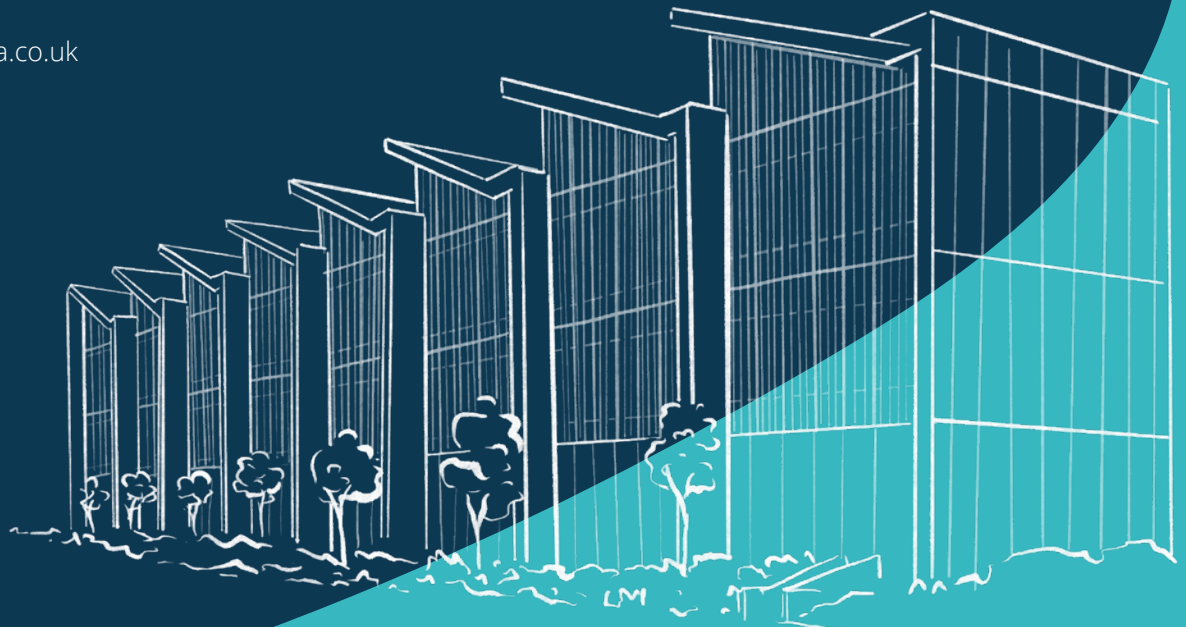
For more information, contact Structura UK:

Phone: 020 8397 4361

Email: kalwall@structura.co.uk

Address: Head Office:

Unit 1,
Oakcroft Road,
Chessington,
Surrey
KT9 1RH



www.structura-uk.com