

Project Report

Crouch End Picturehouse

London, UK



Architecture: Panter Hudspith Architects | James Jeremiah

Photography: Alex Upton

KALWALL®

high performance translucent building systems

KALWALL SPECIFICATION:

Panel: 2.75" | 70mm

Grid core: VertiKal™

Exterior FRP: crystal

Interior FRP: white

System finish: bronze #85

U-Value: .14 | .78 Wm²K

Solar Heat Gain Coefficient: 0.17

Visible Light Transmission: 9%

WHAT IS KALWALL?

A translucent, structural sandwich panel that provides:

Glare-free, balanced daylighting

Superior thermal performance

Energy + electricity saving

Low maintenance life cycle requirements

Safety + security through visual privacy

Durability + graffiti / vandal-resistance

Hurricane, explosion venting + blast rated options



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For unparalleled thermal performance in translucent daylighting, consider specifying Kalwall with **CABOT's Lumira®** aerogel insulation. Available in 2.75" (70 mm) panel formats up to: 4' x 12' (1200 mm x 3600 mm) and 5' x 10' (1500 mm x 3000 mm) maximum.

Crouch End Picturehouse

A GREAT PICTURE INSIDE AND OUT

The Crouch End Picturehouse in North London is an interesting example of how Kalwall® can be used to convert an ugly 1950's concrete building into a state-of-the-art space suitable for the 21st Century.

This project by Panter Hudspith Architects forms part of a wider initiative within the London suburb of Haringey, aiming to re-establish the area as one of London's cultural and arts centers. The result is a remarkable transformation of a building, originally a factory then an office, into a £6.5 million (\$9.75M USD) five-screen cinema complete with café, bar, restaurant and community rooms.

Panter Hudspith Architects replaced the original curtain wall and specified Kalwall for the front elevation. Unusually, this unique translucent cladding is fitted with a tight 6" (150mm) wide grid, known as Verti-Kal™, which not only serves to emphasize height but is the first of its type in the UK. On this scheme the Kalwall panels also insulate to 0.14 U (0.78 watts per square meter) making the building both sustainable and eye-catching, exuding a gentle glow at night.

The highly insulating qualities of Kalwall, coupled with other sustainable measures, including solar panels and a green wall, helped the building achieve a BREEAM rating of Very Good. BREEAM (Building Research Establishment Environmental Assessment Method) is the leading and most widely used green environmental assessment method for buildings and communities in the UK.

This project has won a bevy of awards for its style, design and positive impact on the local area. Accolades include winning Building Design's *Architect of the Year Award 2016 (Sports and Leisure)* as well as winning *Best Green Design* at the Haringey Design Awards 2016 and The Architect's Journal 2016 *Retrofit Leisure Award*.

Kalwall is increasingly being used in the UK for both new buildings and also for the refurbishment of cladding or rooflights on aged buildings. One of the main attractions of specifying Kalwall is its unique effect on both the interior and exterior. Internally, rooms are flooded with diffused natural daylight which creates a stimulating and very attractive environment. Although translucent, it also offers the big advantage of privacy, while the elevations appear crisp, simple and inviting. When illuminated at night they emit a very attractive ethereal glow.

Architect James Jeremiah comments:

"It's the first time we've specified Kalwall and it fulfils our vision of retaining the modernist characteristics of the building. One of our original concepts for the building was of a zoetrope (one of the earliest forms of moving image) and there's a strong history of using transparency in films with people moving behind the shadows. We felt the Kalwall system was a very good fit for what we wanted to achieve."

Awards:

Architects' Journal Retrofit Awards:
Winner - Leisure 2016

Building Design Architect of the Year Award:
Winner - Architect of the Year Award (Sports and Leisure) 2016

Haringey Design Awards:
Winner - Best Green Design 2016



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