

KAWAII®



*...the most
insulating,
diffuse light
transmitting
building panel
available.*



KALWALL

Kalwall – developed and manufactured in the USA for over fifty years, is a highly insulating diffuse light transmitting building material. Natural daylight has been shown to be beneficial to health, productivity and well-being. Kalwall absorbs external light levels and redistributes an interior 'museum quality' light that virtually eliminates glare, hotspots and shadows.

Stoakes Systems, established now for over thirty-five years as a leading designer, manufacturer and installer of cladding, curtain walling and roof glazing systems, are the exclusive UK distributors for Kalwall.

Since being introduced in the UK by Stoakes Systems in 1997, Kalwall has been successfully specified by architects on a huge variety of projects, demonstrating its range and versatility. Some examples are shown here.



NANOGE™

Since its invention in the 1930's, silica aerogel has long promised almost magical properties but has not been available as a commercially viable product - until now. The Cabot Corporation, a global specialty chemical company from Boston, USA, has commenced production of Nanogel, its silica aerogel translucent thermal insulation material at its factory in Frankfurt, Germany.

Nanogel is an extremely lightweight, highly porous form of silica aerogel that is 97% air. With pore sizes so small that air molecule movement is restricted and with a low percentage of solids, Nanogel achieves extraordinary insulation values, high light transmissions and enhanced sound attenuation.



KALWALL+NANOGE™

Kalwall Corporation and Cabot Corporation, two innovative leaders in their respective fields, have joined to produce a revolutionary new product, Kalwall with Nanogel Translucent Aerogel. Kalwall with Nanogel has a 'U' Value of 0.28W/m²K, four times better than insulating glass units, with 'museum' quality diffuse glare-free daylight.

With Kalwall's track record of daylighting technology, the addition of Nanogel translucent aerogel produces the most insulating, diffuse light transmitting building panel available.

"The most amazing thing about (Nanogel) silica aerogel is how well it insulates, even while it transmits light."

ENVIRONMENTAL BUILDING NEWS, AUGUST 2002

Performance table

Face sheet combinations		Panel 'U' value 0.28 W/m²K	
Exterior	Interior	Light transmission%	Solar factor
Crystal SW-C	White B-3A	12	0.11
White SW-C	White B-3A	9	0.08



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