

Timber Louvred Roof Glazing Examples Timber Louvres

5 Parkhill Rd

London
NW3 2YH

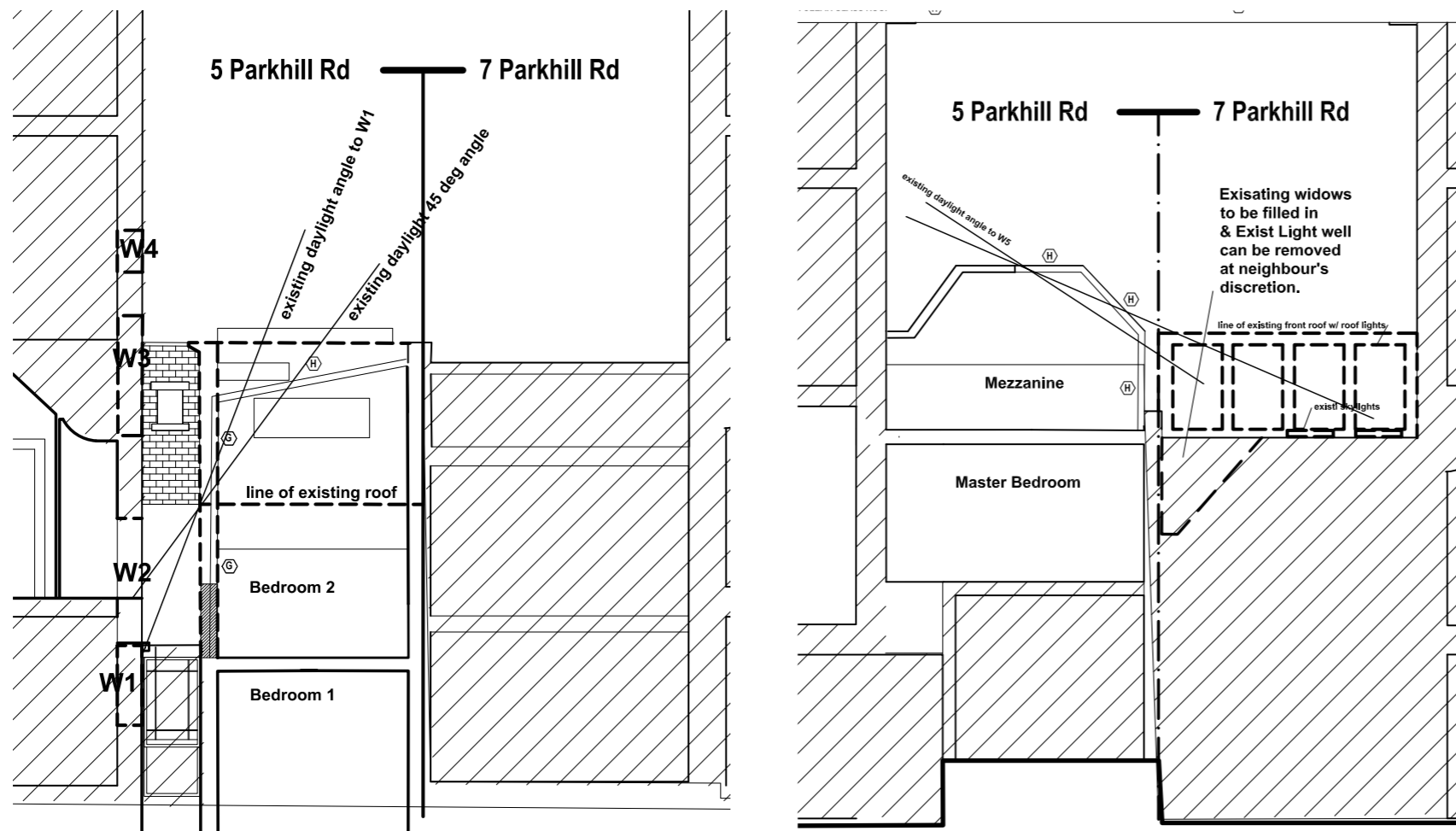
Roof Louvred Glazing: There are two conditions which need to be met.

- 1) Not to block the level of daylight into neighbour's windows. To allow daylight to pass through parts of the proposed building and into a neighbour's window.
- 2) To prevent light spillage to the neighbour's areas at night.

A combination of:

- a) Louvre's angled to allow the passage of daylight and also to angled so that internal light is blocked from view
- b) Obscured glass in areas that require privacy e.g. glazing that is close to neighbour's windows.
- c) Switchable glass or film panels which can change shade. e.g. skylights can be clear during the day, allowing light to pass through and obscured or completely blacked out at night so that there is little or no spillage of internal light to the outside.

Featured on Grand Design TV show



The detailed design still needs to be worked out
There are examples of different applications
on the following pages.

Manufacturer's:

Pilkington's Glass, SCHOTT glass

Switchable glass: Smartglass, Intelligent Glass,
ARC window films, Kinestral Technologies
ESG Glass, Dream Glass.

Timber Louvres: Renson, IQ Glass, Levolux

Sections through the front and rear sections of the proposed Side Extension

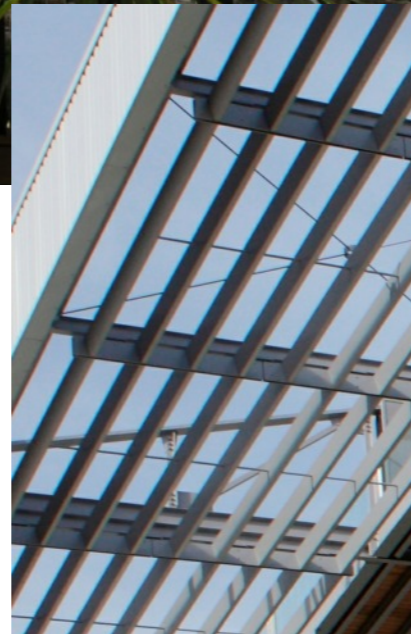
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Flat & Open Roof Louvres



Roof Canopy



Vertical

**ANDREW
COWAN
ARCHITECTS
RIBA**

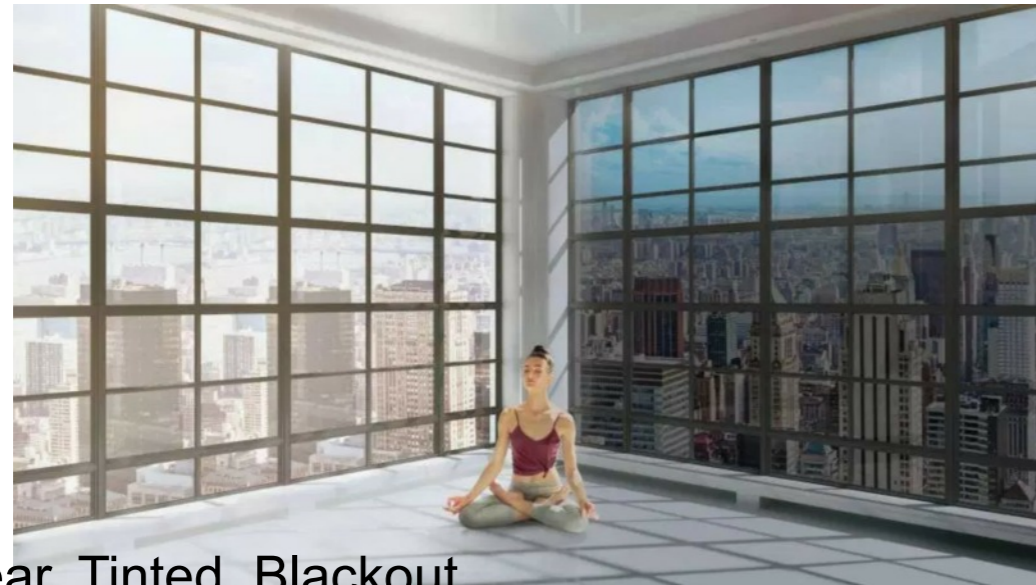
Timber Louvred Roof Glazing Switchable Glass or Film

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Growing panes: The rise of smart glass and how it could kill off your curtains

PAUL SAWERS (HTTPS://VENTUREBEAT.COM/AUTHOR/PAUL-SAWERS) @PSAWERS (HTTP://WWW.TWITTER.COM/PSAWERS) APRIL 30, 2017 6:00 AM



Clear, Tinted, Blackout

Above: Kinestral Technologies: Tinting Glass
Image Credit: Kinestral Technologies

Halio can be programmed to respond to the weather, time, or the sun's position during the day. Halio can also be manually operated – with a voice command or with intuitive wall mounted controls. Tinting begins instantly, and Halio offers the flexibility of stopping mid-program when a desired shade is achieved.

Last week, San Francisco-based Kinestral Technologies (<https://www.kinestral.com/>) ("Kinestral") announced the inaugural installation (<http://www.businesswire.com/news/home/20170419005500/en/Installation-Worlds-Responsive-Smart-Tinting-Glass-Unveiled-San>) of its Halio electrochromic smart-tinting glass at the San Francisco offices of Alexandria Real Estate Equities, a real estate investment trust. Halio is touted as "the most responsive smart-tinting glass on the market," according to the company's own marketing blurb, with an innate ability to switch from clear to dark in seconds, delivering its darkest tint in less than 3 minutes.

It basically negates the need for blinds or curtains, as the glass automatically dims and brightens to suit the outdoors light conditions — this is useful in controlling a room's ambience and temperature, while also reducing a building's energy needs. Users can also manually control the tint settings through wall switches, mobile apps, and if recent tests go according to plan, your voice. Yes, Kinestral wants to integrate Amazon's Alexa voice-activated technology into its smart windows.

The glass isn't designed purely for use on exterior facades, though. It can be used anywhere inside a building so that light from one room can travel through to other rooms when required, or be (partially) blocked if the situation requires it. For example, Kinestral replaced the existing glass in a central skylight above the employee lounge at Alexandria's San Francisco hub, while Halio was also added to two meeting rooms, creating glass walls that served as opaque partitions when needed — to improve the clarity of a wall-mounted LCD TV, for example, or simply to create more privacy. The windows can be undimmed whenever light or visibility is needed.



INTELLIGENT GLASS*

The latest generation of switchable double glazed panels combines the benefits of improved thermal performance with the immediate control over privacy/security. This durable solid state technology replaces the need for old fashioned blinds or curtains offering greater control and comfort within any room. The two glass panels are manufactured as a sealed unit with an air gap in between (argon filled) and the switchable film is UV bonded to the surface of the inner panel. A simple ON – OFF mode switches the glass from being clear (transparent) to frosted (translucent). Three standard panel thicknesses are available 18mm, 24mm and 28mm (custom sizes upon request). This product is simple to install just like any standard double glazed sealed unit. Enjoy the benefits of insulated glass making your room warmer in the winter and cooler in the summer. This energy saving product is completely solid state requiring no maintenance or special cleaning require which offers you complete control over your cc flick of a switch.

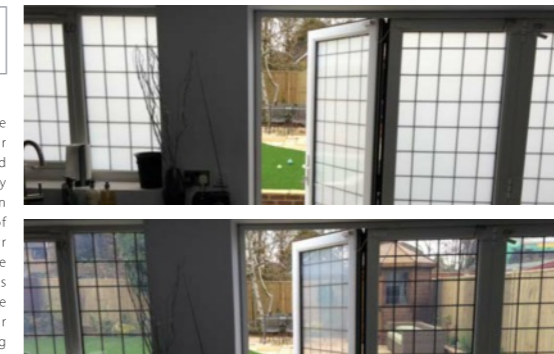
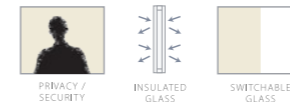
FEATURES

- » Switchable glass
- » Power - 110vac
- » Frequency - 50/60Hz
- » Current - 0.1 amperes per m2
- » Power - 12 watts per m2
- » Switching - < 1 second
- » Operation - (on) transparent - (off) translucent
- » Switch
- » Stand
- » Panel
- » Stand
- 100
- » Custo
- 160
- » Reduc

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IG SWITCHABLE DOUBLE GLAZING



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INTELLIGENT GLASS*

The latest generation of switchable film provides a simple and cost effective alternative to other switchable smart glass technologies. It is manufactured with a self adhesive cling layer on one side (peel and stick) which makes it easy to apply to both new and existing glass (no specialist installation equipment required). A simple ON – OFF mode switches the film from being clear (transparent) to frosted (translucent). In its frosted state the film acts as an electronic blind providing privacy and security for any glass, window or partition. The film is available in two standard widths (1000mm / 1200mm) and can be cut to any size. Custom shapes and sizes are available and multiple pieces can be joined together to create large switchable glazed panels or partitions. This unique film technology also transforms into a high definition rear projection screen to display TV images and videos. A truly innovative product making switchable glass technology accessible to everyone while giving your home or business the added WOW factor.

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BENEFITS

- » Self adhesive film
- » Custom sizes (per linear metre)
- » Sheet sizes up to 3 metres
- » Film widths 1000mm / 1200mm
- » Simply apply to glass / plexiglas
- » Thickness - 0.7mm
- » UV / solar protection

APPLICATIONS

- » Privacy / security glazing
- » Windows / glass partitions
- » Sky lights / vision panels
- » Counters / furniture
- » Conservatories / sun rooms
- » Electronic blinds / doors
- » Video projection screen

ACCESSORIES

- » 110v transformers
- » RF remote control
- » Installation kits
- » Training
- » Installation guide

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Timber Louvred Roof Glazing Obscured Glass or Film

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Glass Channels



Obscured Translucent panels