

# SPECIFICATION Magazine

This month's features:

**Sector Reports:**

- Public Sector
- Metal in Architecture

**Features:**

- Roofing, Cladding & Insulation
- Ceilings & Partitions
- Timber in Architecture
- External Works & Landscaping
- Lifts, Stairs & Balustrades
- Interiors & Lighting
- Bricks, Blocks & Lintels



**GARADOR**  
*The Garage Door People*

## High security garage doors without compromise

Garador are now offering Secured by Design accreditation on their industry renowned sectional garage doors. Upgrade for free on selected models, fitted to SBD specification. Find out more on page 18.



## Hunter Douglas Architectural goes for gold at former Olympic village

Passing an air tightness test was essential when Hunter Douglas Architectural was specified to provide ceilings for apartments being constructed within East Village on the site of the Olympic Village in Stratford, East London.

East Village is a housing development originally built as the Olympic Village of the 2012 summer Olympics, but has since been converted into a residential district, with shops, bars and restaurants.

There are two towers of 26 and 31 storeys, and two ten-storey pavilions, which have been merged into a single residential development that is connected by an inhabited sky-bridge.

Hunter Douglas Architectural, the international architectural products company, was asked to supply veneered ceiling panels for many of the corridors in both towers – in total, 1840m<sup>2</sup>.

However, the tiles had to pass stringent air tightness tests before they could be commissioned.

After the testing regime was completed, Hunter Douglas supplied European oak tiles with nano perforations, which involves making countless microscopic perforations (Ø 0.5 mm) in the veneer, concealing the



more extensive perforation of the core material. This not only provides excellent acoustic qualities, it does not compromise the visual aesthetic of the ceiling.

The panels were also supplied with acoustic fleece on the reverse, which tests have shown to produce a sound absorption of  $\alpha_w$ : 0.95 and NRC: 0.90.

The veneer sheets were mis-matched and glued to form panels, although these can be ordered with slip-match or book-match sheets. In East Village, most of the veneer tiles that were supplied came in 600mm width but multiple lengths up to 2000mm. The system was installed in the Modern style semi-exposed grid style, which only shows 4mm of the T24mm grid after assembly, thanks to the special edge detail. The easy installation system means each panel can be easily removed downwards and allow full access to the plenum with a simple push.

Juliette Halliday, national sales manager at Hunter Douglas Architectural, said: "Crucial to this project was the special air permeability test regime that was needed to

demonstrate the veneer panels could cope with the air handling methods used in the project.

"This was because the ceiling was designed for fewer hangers to accommodate the large amount of M+E in the ceiling void. Also vital for the project was high acoustic performance and the Hunter Douglas ceiling passed with flying colours."

Rory Harty, Associate Director of Mace, which was appointed by Get Living, the UK's largest build to rent provider, said: "The airtightness of the ceiling was essential to make the ventilation system work for the project and Hunter Douglas were able to achieve this using the Luxalon Modern square edged tile through close liaison and testing with Hunter Douglas throughout the design phase."

Hunter Douglas's wood veneer ceilings are manufactured using environmentally sound materials. All wood is FSC certified and product development embraces the Cradle to Cradle principle.

Hunter Douglas Architectural – Enquiry 50

## Acoustic panels can embrace the extreme

Recent tests have shown that Troldekt acoustic panels withstand moisture levels up to 98%, even when combined with high temperatures up to 40°C. These latest tests were carried out by the accredited Danish Technological Institute to the European product standard for suspended ceilings (EN 13964).

While the composition of the panels has remained unchanged, this new round of stringent testing reinforces the fact that the panels are suitable for the most demanding of wet, warm and humid environments such as swimming pools, changing rooms and shower rooms.

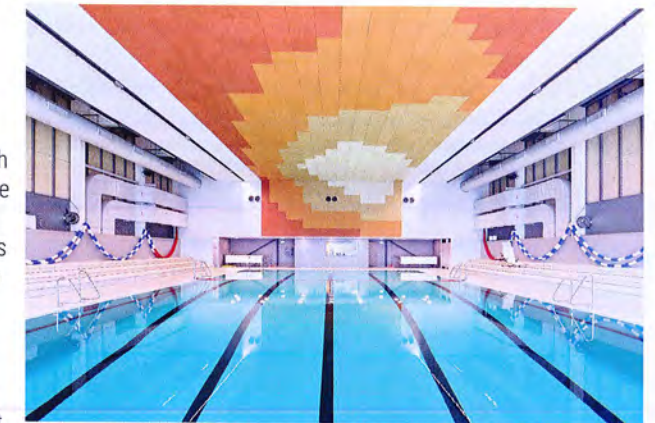
In these environments, it was found that the panels are dimensionally stable and retain their flatness. This means they do not warp over time, giving them a life span in excess of 50 years.

The panels are inherently robust and durable because the combined strength of the cement coupled with the breathability of wood means the structure does not rot and acts as an anti-microbial surface resisting fungal growth and other microorganisms.

For very humid environments where chlorine is also present, Troldekt offers special structure

screws in the highest corrosion protection category. This means it is now possible to have a complete C60 profile system in steel where both the profiles and screws are C5 rated. The screws are also available in all colours to match the panels when installed on ceilings and walls.

Founded on the Cradle-to-Cradle design concept, Troldekt's natural and inherently sustainable panels are available in a variety of different surfaces and colours and contribute positively to a building's BREEAM, DGNB and LEED ratings. In addition to their high sound absorption and tactile surface, they offer high durability and low-cost lifecycle performance. Available in various sizes and in four grades, from



extreme fine to coarse, the panels can be left untreated or painted in virtually any RAL colour.

Samples, case studies and technical guidance are available from tel 01978 664255 or Troldekt.co.uk.

Troldekt – Enquiry 51

### Style divides space at global bank's UK head office

The UK head offices of The Bank of New York Mellon Corporation (BNY Mellon), located in the prestigious 160 Queen Victoria Street building (160 QVS), London, have been recently refurbished.

Partitioning expert Style was contracted to inject a high level of flexibility into the space, encouraging a positive environment by allowing the easy creation of personal work areas, divided meeting rooms and brainstorming hotspots.

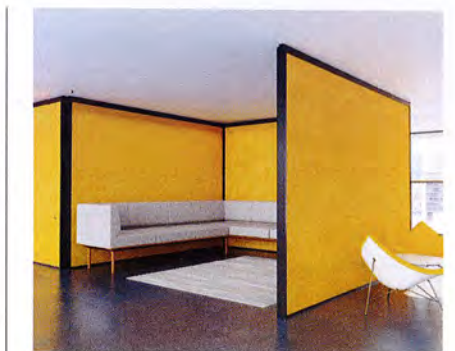
In the Thames Room, a large C-shaped Dorma Hüppe Variflex glass moveable wall offers 52dB acoustics, fully glazed pass doors and a stylish crittall-effect. Whilst Style's unique working walls are installed in the Innovation Centre. Finished in a striking blue painted glass, the individual panels spin and slide along ceiling tracks, allowing freedom to segment

the space into a wide variety of configurations.

Elsewhere, a 59dB semi-automatic Dorma Hüppe Variflex solid moveable wall finished in contemporary fabric-wrapped panels, abuts a fixed glass wall that matches the crittall-effect of the glass Variflex, providing seamless interior design.

Working with architects, T P Bennett and contractors ISG, Style was specified to create flexible space at BNY Mellon's London offices using a blend of solid moveable walls, glass moveable walls and Style's innovative working walls.

Style Partitions – Enquiry 52



### Optima launches its new Adaptable Wall

Optima Systems has launched Optima Adaptable Wall (OAW), a technically sophisticated and visually appealing dry-jointed solid wall system. The OAW is fully demountable and reconfigurable, designed to be quickly deployed within any commercial interior and seamlessly moved if required. Achieving outstanding acoustic ratings, this fully modular system has been created to complement a standard installation of Optima's Revolution 100 Glazed partitions, utilising the same aluminium tracks. Available in a variety of sustainable, solid panels from natural woods and fabric to textured glass or a living wall, the OAW presents a functional, eco-friendly alternative to drywall and plasterboard.

Optima Systems – Enquiry 53