





BBA-approved SEWI panels comprise a galvanised steel structure with a rigid insulation core, a base-coat render, and a top-coat render (details: www.structherm.co.uk). Meanwhile Hanson has launched a new service enabling specifiers to access a team of technical building products experts by phone, email or



and EPC assessments, U-value calculations, and masonry solutions (details: www.ask hanson.co.uk). SEArch Architects has applied its Greening-The-Box suite of building techniques to a 200-year old house in High Wycombe, Buckinghamshire, resulting in a 100 percent reduction in carbon dioxide emissions (17,878kg CO₂/year) and an 80 per cent reduction in running costs. The project

involved wrapping the

Styrofoam-A extruded

external envelope in Dow Building Solutions'

instant messaging.

Advice is available on

Building Regulations,

codes of practice, SAP



Located north of Vienna, ATP Architects' G3 Shopping Resort Gerasdorf features one of the largest timber roofs in Europe. Supported on pairs of Y-shaped steel columns, the 20,000 square metre undulating roof structure is constructed from glulam beams, laminated engineered timber panels and plywood. The carbon dioxide held within the timber equates to a saving of around 23,000 tons. Over 3000 square metres of sedum roofing

reduces rainwater run-off, while also boosting biodiversity. Internally, thermal control is provided by a biomass-fuelled district heating plant and a well-based ground source heating and cooling system. A thermo-actively controlled air conditioning system is operated via the floor plenum, with the large volume of air above the comfort zone serving as a thermal buffer and facilitating night-time cooling via cross ventilation if required. The project also incorporates energy-efficient escalators, water-saving taps, LED luminaires, and recyclable construction materials (phs: Kurt Kuball above, Florian Schaller below).



polystyrene insulation, increasing the internal thermal mass of the walls and floors, increasing the south-facing glazed areas, decreasing the north-facing glazed areas, and modifying the internal layout to

encourage natural ventilation (details: www.styrofoam.co.uk).
• Space Group and PH Partnership have completed a £50m BREEAM Excellent-rated student services building at Durham University.

The Palatine Centre (below, ph: Kristen McCluskie) incorporates a range of passive and active environmental technologies, including natural ventilation, good levels of daylighting, solar shading, low-



energy artificial lighting with daylight sensors and presence detection, air-source heat pumps with waste heat recycling, solar collectors, photovoltaics, sedum roofs, and rainwater harvesting. In addition, over 90 per cent of all waste generated during construction was recycled. • The 4th International Holcim Forum for Sustainable Construction is taking place in Mumbai, India, from 11-13 April. Chaired by Mohsen Mostafavi, the theme is sustainable construction and economics. Hosted by the Indian Institute of Technology, the event includes workshops and site visits (details: www. holcimforum.org).