



Located 18 miles from Limoges, on the outskirts of Briance, the village of Pierre-Buffière perches atop the valley that surrounds it. Ox Architectures placed these leafy surroundings at the heart of its project to rebuild the Jean Peyraud elementary school. The 10,764sq ft project winds around the edges of the plot, offering students and teaching staff views of the Limousin hills

Completed last November, the school is now home to two kindergarten classes, three elementary school classes, a preschool, an exercise room and a multimedia room, all under one roof. Built to replace the previous building, it redistributes the space to create an entirely separate construction from the middle school. The outward-facing facades and roofs feature an aluminum diamond cladding in a zinc grey and gold colour scheme. The scales subtly complement the organic shape of the building that echoes its surroundings.

Committed to maintaining a link between the interior and the surrounding landscape, architects Marie Remillac and Laurent Billat specified SageGlass dynamic glazing for the classrooms, multimedia room and shared studio facing west and south-east.

“The huge benefit of SageGlass glazing is the smart way it controls the sun’s rays. This helps maintain the advantages of glass while dispensing with its major disadvantages: glare and overheating, whichever way the building faces, whenever and whatever the weather. The influx of natural light and the view of the outdoors are preserved, creating a sense of comfort and well-being. These benefits also have a positive impact on students’ concentration and performance,” according to the architects.

Just under 536sq ft of SageGlass double glazing was fitted on the building on 17 fixed and tilt/turn aluminium frames by Limoges-based construction company Miroiterie Raynaud SAS.

SageGlass glass automatically adjusts its tint level to the level of sunlight. It controls the amount of heat and light entering the room while preserving a constant connection with the outside world. The glazing’s heat regulation also helps to reduce the school’s running costs (energy and maintenance bills). SageGlass is on hand to support the project owner in the long term: the company gathers



feedback on user experience, allowing it to adjust controls remotely or on site depending on requirements.

The smart way to control heat and light

The glazing is connected to a 2.5V powered control system that automatically regulates the tint level based on environmental settings throughout the day. Four states are defined based on the solar factor (g) and light transmission (TL):

- “Clear” – $g = 0.38$ and TL 60% when it’s raining or the sun is rising or setting
- “Light” – $g = 0.12$ and TL 18% when the sun’s first rays appear
- “Strong” – $g = 0.07$ and TL 6% when better solar protection is required
- “Maximum” – $g = 0.04$ and TL 1% to protect against glare caused by direct sunlight.

The glazing can also tint on demand in manual mode using wall switches installed in the classrooms. A useful option if teachers need a little shade to put on the projector or read aloud in a calmer setting.

There are several economic benefits: smart glazing will allow the school to reduce its energy bills by regulating the influx of heat throughout the day and over the seasons. In summer, the building will require less air conditioning. In winter the glazing will allow the heat from the sun to penetrate the building, reducing heating requirements. □

www.sageglass.com/eu

Give us your glass



Morley Glass says that it will be recycling more post-consumer glass and supporting more local good causes than ever following the installation of new state of the art automated machinery to process waste glass collected from Uni-Blinds installers.

The new plant commissioned by Morley Glass at its HQ and factory near Leeds replaces its pioneering ‘crush’ machinery, which has been retired after two years of service. The new machine is designed to be smarter and more productive through automation, extracting a larger amount of annealed glass out of the frame.

This eliminates some of the more time consuming and labour-intensive stages of the glass recycling process to enable larger volumes to be handled. The glass goes straight into the manufacture of new glass, whilst spacer bars and any other materials are channelled off into a separate waste stream.

This first stage recycling process is a joint initiative between Morley Glass and Saint-Gobain Glass. Since the initiative started in 2019, more than 670 tonnes of glass

cullet have been produced which has saved more than half a million tonnes of virgin sand from Saint-Gobain Glass’s manufacturing process.

Morley Glass goes even further, however, to make sure the value of the recycled glass cullet can be utilised to fund environment initiatives across West Yorkshire through its GreenVision Fund. This enables local organisations involved in environmental improvement and green micro initiatives to benefit from individual grants of £500 to support the work they do.

Ian Short, MD of Morley Glass says: “We are thrilled that we can now handle three times the amount of recycled glass that we could previously, helping the industry take another important step forward in terms of sustainability.

“But equally important will be our increased ability to support more green initiatives than ever as the size of our GreenVision Fund grows with recycling volumes – it’s a win-win.” □

www.morleyglass.co.uk

Ritec International has launched QuickSpray 300, a fast way to apply Ritec ClearShield ‘non-stick’, easy-clean protection on glass surfaces. This is in response to industry demand for a cost-effective yet quick and simple method of applying ClearShield protection onto new glass. To make QuickSpray 300 even more appealing, Ritec is offering an introductory 15% discount for a limited period.

QuickSpray 300 is available in kit form which includes the 300ml QuickSpray 300 refillable spray applicator, 500ml of non-flammable Ritec ClearShield 300ml of Ritec Clean-All, an after-care product.

The 15% introductory discount applies to any purchase of QuickSpray 300 kits in the UK directly from Ritec International until 10th December 2021. □



www.ritec.co.uk/quickspray300