SOLUTIONS: DOORS & WINDOWS

A window onto a warming world

Architect Justin Bere is so determined to be part of the solution to climate change that he's set up his own glazing business, writes **Pamela Buxton**

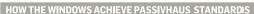
dow company. But frustration at the standard of UK-manufactured windows, coupled with his admiration for German-made Bayer products, led him to do just that, and this summer Double Good Windows was born.

Not only will the company operate as the UK agent for the superate as the UK agent for the superate as the UK building through some-

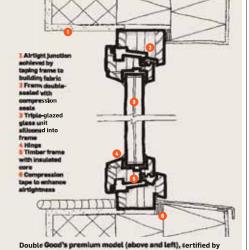
As an architect, it was never Justin
Bere's ambition to set up a window company. But frustration at
produce similarly high-perform-

ing windows of their own.
"I realised that people's expect-ations in the UK are much lower than they need to be," says Bere.
"I saw the opportunity to help bring about a rapid change in the









Double Good's premium model (above and left), tertified by the Passivhaus insitut, is a triple-glazed timber framed window with laminated insulation in the frames. It achieves a









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residential energy efficient construction which its promoters claim, can reduce energy use by 90% compared with existing housing. Its aim is to achieve a

building with a comfortable interior cumula, requiring excellent insulation,

Passivhaus homes use passive principles for space heating and hot water provision such as solar heating. Since Passivhaus lings have a very tight cap on the amount of energy they can use — an annual limit of 15kWh per sq m for space

heating and cooling — airtight windows are essential. To achieve institute certification, the glass, frame and seels all have to be of the highest

buildings were erected in Dermstadt, Germany, in 1991. Since then, 6,000 more have been built to Passivhaus principles in manuard Europe, and Passivhaus buildings are now be**ginning to be** built in the UK

the UK.
According to Gavin Hodgson of Passivhaus UK, plenty are at the planning and construction stages, but as yet no UK dwellings have been certified as Passivhaus, at though Tream has one. But he says the standard has been identified by organisations such as the Association for Energy Conscious Building as a way to achieve the 2016 goal of zero-carbon new-build housing. The BRE minages Passivhaus standards in the UK, and offers consultancy



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ight windows began six years ago, when he conceived the design for This German building pe which no conceived the design for his own house in Islington, north London. Determined to make it as energy-efficient as possible, he designed his own triple-glazed windows with double seals, taking inspiration from the Swedish-made windows brid seen at the works. The second of the properties of the

thing quite simple — windows and doors."

Gow opening onto a terrace — he realised what he'd been searching. For was a product that conformed

rinspiration from the Swedish-panies offer Passivhaus-accredited made windows he'd seen at the 1960s offices by YRM at Greestoke Place in central London. But the UK company he commissioned to manufacture them took an entireyear to complete the project, during which time Bere's boarded-up house was broken into and burgled. For windows elsewhere in the house, he tried and 1.4W/m2K for a standard spenimearito avoid being cape and 1.4W/m2K for a standard spenimearito avoid being cape and 1.4W/m2K for a standard spenimearito avoid being cape.

4.6m stretch of folding timber win- into the building fabric, and glass cialist tape is used to achieve air- level 6," he says.



where in the house, he tried another UK company which was much swifter, but the result was the tried another UK company which was funct entirely satisfactory.

When Bere came to source the final windows for his home—a insulated core. They are tapered for the tried of the tried

tight joints between the window nd the building fabric.

With such impressive airtight-ess, capital costs are inevitably rester than for lower-spec products, but Bere is encouraged by the level of enquiries he's had already. "We believe the lifetime costs are

far, far lower. There's no compari son with PVC-U or alumin says Bere. "We want local councils and housing associations which would otherwise put in something disastrous — like PVC-U windows." Bere, who says environmental

concerns were one of the reasons he became an architect, is evangelical about the need to increase uptake of the Passivhaus standard in the UK. "If the Passivhaus standard is



land to provide the biomass need-ed for energy-hungry buildings. The only answer is to make buildings so energy-efficient that solar thermal, PV electricity and wind energy can realistically provide the

commercial interest in doing the wrong thing'

cls: the Passivhaus model in tim-ber, a standard model with insulated aluminium external fac-tions and the passivhaus model with future, if demand accelerates, some Double Good windows can ings, and a basic window intended for refurb projects in either timber or aluminium facings. Although ward to enjoying his own Bayer not Passivhaus standard, these two windows when his house — comlatter models still outperform most
UK windows, says Bere. plete with terrace lap pool – is
finally finished next year.

UK windows, says Bere.
Bere runs Double Good — so called because it claims to be good for both occupants and the envi-

ronment — alongside his practice, Bere Associates. He is in the process of turning Double Good nto a joint venture with timbe specialist Timbmet.

Mike Packer, a director at Timb-

met, first looked at a similar ven ture several years ago, but says that at that time the market, unlike now, wasn't ready. He wants to now, wasn't ready. He wants to encourage specifier interest in energy-efficient doors and win-dows by widening the range and aesthetics of Double Good's offthe-shelf products, and by devel-

oping a bespoke service.

A full 20% of Double Good's profits will go into the charitable Double Good Foundation which will, hopes Bere, enable him to encourage more environmentally aware attitudes. Always a bit of a campaigner — he opposed lead in petrol in his school days, way before t became a mainstream issue -Bere is keen to make a difference.

"There's too much commercia "Buildings must not guzzle en-ergy because there is not enough balancing force to help influence

policymakers, he says.

Bere's own house, despite its Baver windows and other energytaving features such as 300mm or wall insulation, does not fulfil Passiyhaus standards overall — be was energy demands of the country."

*There is too much

there is too much

well advanced on the project before becoming aware of the standard. But Bere Associates is proposing a development of 38 Passivhaus units for a project in Nottingham, and Bere has plans for an ecology event at next year's London Festival of Architecture He hopes the foundation can fos-Double Good offers three mod- ter a higher standard of UK winsome Double Good windows can be made in UK. Meanwhile, he's looking for-

SASH WITH A NEW ANGLE



SOLUTIONS

Hawa at the Objekt apartments SHUT AWAY FROM HEAT

Hawa's Frontslide 60 sliding shutter systems are designed to protect buildings from heat with wood, metal and plastic Shutters 28 - 40mm thick. At the Objekt apartments (pictured) in Austria, designed by were put under the spotlight when Grand Designs present Kevin McCloud viewed a Austria, designed by Baumschlager & Eterle, the another when open.

The systems use toothed belts that permit shutters to slide simultaneously into the open or closed positions caused by colliding catches. The tracks fix to walls, ceilings and lintels, and have clip-on covers for concealment.

According to Mighton
Products, its new Ecologic window energy rating of B, to of the Building Regs. With a timber exterior and a PVC-U jamb liner, Mighton claims it is the only B-rated timber sliding

sash window on the market. Putting Ecotilt together requires minimal routing and joinery, which can radically cut the long lead times that sash window also titts - hence the name - while both sashes can be removed for cleaning and maintenance from inside

GRAND OAK DOORS

Vicaima's Exclusive Oak doors residential project at Tipton, West Midlands, which involve the refurbishment of a grade II listed 18th century church tower. The refurb, comprising six bedrooms, an indoor pool, gym, saune and library, features Exclusive Oak fire doors with glazing and beading throughout. The doors were chosen to match reclaimed oak skirting and architraves

WISH I'D **DONE THAT**

STEWART DODD



Architects, and I spent four weeks in the Veneto region of Italy, carefully and painstakingly measuring the Brion-Vega Cemetery as part neasurement project.

Each day, we would make the pilarimage to the little of threshold. One morning as we approached the cemetery, I noticed something different. For the first time since our village of San Vito d'Altivole to cometery, where members of the Brion family are buried together with their esteeme arrival, the door to the site was closed. The door was a heavy Venetian architect, Carlo concrete wall on brass and Scarpe. Our delly ritual unfolded amid the obsess stainless-steel rollers which slid secretly into the boundary wall of the cemetery, right across our path. It looked as if we might not be able to enter, details and mix of materials produced by this quiet yet

highly respected architect.
The thing that struck me was that there is no real function -the cemetery is an expansive place, some 2,200sq m, but in reality, it has little reason to exist other than to hold the sercophaguses of its patrons, Gluseppe and Onorina Brion.

garden, where most of the

visual elements that define the architecture are openings —

but with a slight touch of hand,

well oiled wheel. To think a mechaniam like this was cemetery built in 1972, one that is permanently exposed to the elements, helps you understand Scarpa's drive

Scarpa had a passion for detail that is obvious in all his projects, but what is not so and hunted down traditional /enetian craftsmen to It is this that gives the Brion

Cemetery its intrinsic quality. In the words of the architect. "I consider this work, if you permit me, to be rather good, and which will get better over time." Stewart Dodd is a director



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