



TOP OF THE CLASS



Adrian and Heather Hayes have built a striking contemporary home to a green agenda on a tricky coastal plot in Cornwall.

drian and Heather Hayes were happy with their large traditional home in south Cornwall and never thought about selfbuilding beyond enjoying property shows on TV.

Then they heard rumours of plans for 1,200 new homes to be built close by, and considered moving. By chance, their estate agent mentioned a building plot for sale in the pretty fishing village of Mevagissey and, intrigued, they went to see it. "It was the only plot we looked at," says Adrian. "And we just fell in love with it," adds Heather.

Long and narrow, the former garden offered spectacular views across the sea to Chapel Point, but it came with some issues, too. The land was level with the top of the five foot boundary wall facing the road, which was the only access and, although it had been granted outline planning permission, there were constraints. These were mainly around the proposed ridge height, and the proximity of any new house to neighbouring properties.

"We were pretty naïve," admits Adrian "I think the consensus was, we would be mad to take it on."

The couple asked their builder, Dave Penhaligon, to look at the plot. "He had done work for us before, and it was an instant decision when Dave said he would do it... it was a big part of why we took it on," says Adrian.







THE DESIGN"I just enjoy standing with my back to the view and looking at what we've achieved."

The couple chose Adam Raspison from Atelier 3 to design their home, their brief drawing inspiration from houses they had seen from as far afield as Switzerland and Sandbanks in Dorset.

"We wanted something to suit both of us," says Adrian. "That meant an open-plan layout which makes the most of the views, a glass balcony and green technology where we could justify the expense."

Their relationship with Adam took on a different dimension later when they found themselves living next door after selling their old house and moving to a small property during the build. "Any problems, I used to toddle across in my slippers!" laughs Adrian.

Adam proposed a unique contemporary threebedroom property, designed around a central spine wall which extends into the terraced garden, and acts as a retaining wall on the lower ground floor. A largely glazed gable end overlooks the sea.

The Hayes loved it, and asked only for minor changes to the internal layout. Critically, the design took account of planning restrictions relating to the ridge height. Rather than build a single-storey home or challenge the planners for a conventional two-storey property, the design achieves two levels by creating a basement.

"We didn't try to change the constraints at all," says Adrian and, as a result, they gained detailed planning permission with no problems.

Unusually, the first task the Hayes tackled was the landscaping due to a lack of secondary access to the bank at the rear once the house was built. Heather designed the terraced garden and patio area, which uses 280 oak railway sleepers that Adrian sourced on eBay, and quality granite paving that the couple describes as their 'best buy' costing just £50 per pallet.

Terracing the steep garden, digging out to basement level, and building an 18m-long reinforced retaining wall, was a huge job. More than 150 lorry-loads of soil were taken from the site and for a while the Hayes had nothing to show for their money except a gaping hole in the ground.

Adrian managed the build himself, finding and ordering materials, writing the cheques, and spending

THE THIN

The 18m blue spine wall which is an attractive feature of the design acts as a retaining wall. The PV panels on the rear roof were installed in time to qualify for a generous government subsidy and are expected to pay for themselves within seven years.

OUTDOOR SPACE

The garden has been landscaped to Heather's design. A former overgrown bank has been terraced to provide practical usable areas, with views of the sea.







TRIPLE

The windows are triple-glazed and fitted with selfcleaning glass and internal blinds. hours on the internet researching and sourcing materials, where possible using local firms.

Dave Penhaligon was the site manager, and often worked alone, although Adrian tried to be on site as much as possible. When other trades were required, Adrian trusted Dave to recommend people and was pleased with the results.

"It was like having a whole firm, but they were all independent contractors. We never had a cross word with any of them," says Adrian. Although the build went largely without a hitch, there were a few challenges. Most related to the narrow, 10m x 45m plot, such as getting the crane on site without closing the road. Storing materials was also a headache, with the railway sleepers in particular getting moved several times.

But it was the utilities that caused Adrian his only serious problems. He misread the utility company plans and thought they would be able to connect to the main sewer in the road. He later discovered that it was a pumping main with no connection option, so he had to install a sewage treatment plant on site.

So much soil was removed from the site that they struck rock in places. Worried the drainage wouldn't be able to cope with Cornwall's damp climate, the Hayes built in several soakaways, and since moving in last November in what has been a particularly wet winter, these have passed with flying colours!

Dave had recommended a conventional block build, "The thing that concerned us was the wind; we wanted a really solid build," explains Adrian. The roof was cut on site and Kingspan insulation chosen for the ceilings (250-280mm) and walls (100mm).

The air-tightness of the property was enhanced with triple glazing and a heat ventilation system which meant trickle vents were not necessary. Adrian was delighted to receive an 'A' rating for energy efficiency and an air permeability score of 2.7; a rare achievement for a house not manufactured off-site.

AMERICAN WHITE OAK

American white oak supplied by Mid-Cornwall Joinery has been fitted throughout.





Open-plan living was a priority for the Hayes. In the dining area, the glass top dining table helps to emphasise a sense of light and space.

From the outset, Adrian and Heather were keen to build to a green agenda and wanted to go further than simply ensuring high levels of insulation. The plot has no mains gas, and the conventional options of oil, Calor gas or solid fuel didn't appeal. Air pumps were also ruled out because they would be too obtrusive on such a tight site.

The remaining option, as far as the Hayes were concerned, was geothermal energy and, specifically, a vertical system. Two 98m bore holes were drilled under what is now the garage, at a cost of £15,000. This, together with the heating system including the underfloor heating, came from Source Energy, one of the best companies the couple had dealt with.

The ground source heat pump was more expensive than gas but early indications show that it is economical. Four kilowatt photovoltaic panels were installed in time to secure a generous government payback deal of 43 pence per unit, which means the panels should pay for themselves within

Heat recovery and ventilation systems were a mystery to the couple until they saw one at an exhibition. Serious about



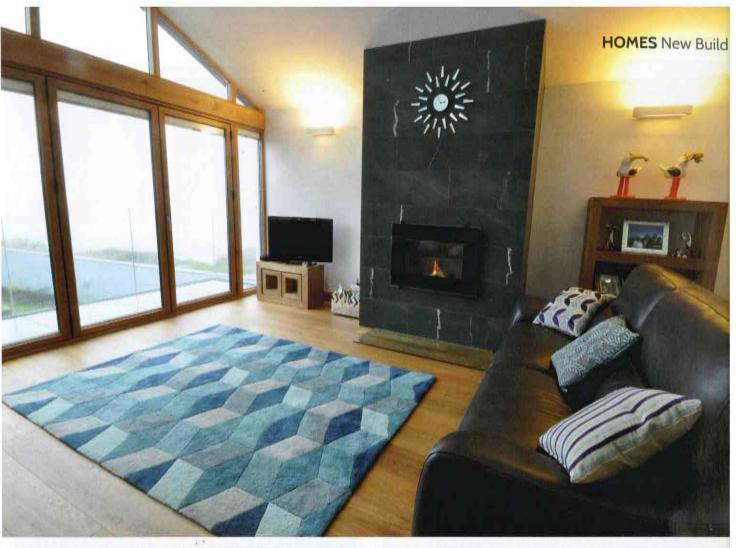


air tightness, it was an obvious choice and Adrian fitted it himself, with the aid of a subcontractor, a decision they haven't regretted.

The house now stays at a very pleasant temperature without much heating, even in the depths of winter. This is partly due to the solar gain from the triple-glazed composite windows (powder-coated aluminium exterior and oak interior), which were only £1,500 more than standard double-glazed units.

The interior has been finished to a high standard, with American white oak used for all the floors, architraves, skirting boards and doors. The Cumbrian slate fireplace, which houses a real fire, has sentimental associations for the couple, who love the county and got engaged while on holiday there. Colour is used well, with the largely white Art Deco-style curved kitchen units complemented by pale blue storage on one side, linking it to the blue spine wall that ties the house into the coastal landscape.

The Hayes were careful to keep their budget under control, and were as economical as possible. The tiles in the three stylish bathrooms, for example, only cost £1,500.





At the same time they were mindful that they didn't plan to build again, so there was no skimping on quality or details; the balcony has frameless glazing, the balustrade on the steps is stainless steel and the fascias are powder-coated aluminium. Cheaper substitutes may have compromised Adam's overall design.

Although they only moved in a matter of weeks ago, following a longer than expected two-year build, the Hayes are still discovering the joys of life in a warm, well-designed home. "I just enjoy standing with my back to the view, and looking at what we've achieved," says Adrian. "If I was driving by, it's a house which I'd stop and look at."

O12O8 895536, atelier3.co.uk Agents for the plot Lillicrap & Chilcott: O1872 273474 STRUCTURE

PRACTICAL

The Hayes had a

huge kitchen in

Heather prefers

her new one. The

units were chosen

for their Art Deco

look. The granite

worktop supplied by

Morgan Masonry is

a favourite feature.

their old house, but

KITCHEN

Contacts

Builder Dave Penhaligon

Electrician Dave Wright: O7876 524475 Complete heating system Source Energy: 01872 300205

Heat recovery system CVC Direct, Wallingford: 01491 836666

Design Adam Raspison at Atelier 3 architectural practice:

Photovoltaics F&K Electrical: 01726 822288 Windows DSL: 01872 261260

Railings/steel work Mike Davis: 01726 816896 Paving and drive Michael Coon: 01726 844477

Plumber M Keast: 01208 821364 Painter J Brewer: 07846 447594

FIXTURES AND FITTINGS

Lighting St Austell Lighting: O1726 65600 Glass balcony and stairs St Austell Glass: O1726 64406 Flooring Hardy Carpets: O1726 76541 Granite worktops Morgan Masonry: O1872 870091 Glass wall feature Jo Downs: O1566 779781 Fire and chimney Kernow Fires: O1208 812527 Cumbrian slate Burlington Stone: O1229 889661

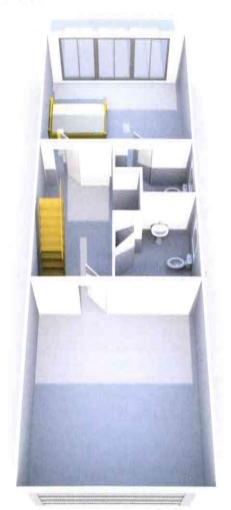
The bottom line

The Hayes paid £210,000 for the plot. Their new home has not been valued.

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LOWER GROUND FLOOR







BED & BATH

Heather and Adrian paid only £1,500 to tile all the bathrooms. The principal bedroom on the lower ground level has a private patio area, with the second and third bedrooms opening off the main living area.

GROUND FLOOR





Home truths

Would you do it again?
No. How could you improve
on this plot? Plus, there is
the stress of it; it took over
our lives for two years. Now
we can get back to living.
Is there anything you would
you have done differently?
The front steps.

What was your biggest extravagance?

The glass panel (hanging above the stairs), which was created for us by Jo Downs. We had a complete change of lifestyle to a different way of living, so we sold all our old furniture and it paid for the glass feature.

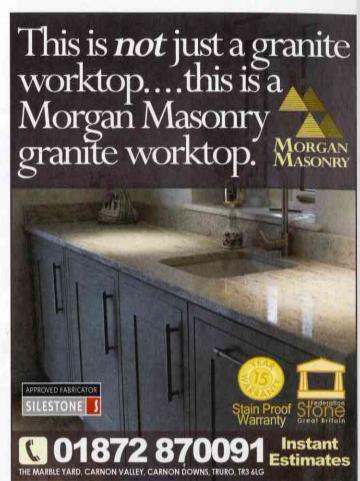
What was the high point of the project?

Heather: The garden being finished. It was a key feature and I designed it early on. Adrian: Getting our 'A' rating. There aren't many around!

ADRIAN & HEATHER'S TOP TIP

- Don't forget the little things when budgeting. It will cost you more than you think.
- If you have a good builder, trust him.
- The internet is very useful; not just for buying, but for research.





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VINDOWS





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