The tension mounts Frei Otto interviewed Sweden's Museum of World Culture by Brisac Gonzalez Touch wood: Hudson Architects' house on a flood plain Pneumatic beams save the Cutty Sark



n the words of the woodstain advertisement, Hudson Architects' Cedar House at North Elmham in Norfolk does exactly what it says on the tin. At first glance, its most striking feature is its cladding: 15,000 Washington State cedar shingles wrap the building from roof ridge almost to ground level, obliterating all difference between surfaces save for the windows and doors, which extrude like strange orifices from this reptilian skin.

The house has overtones of MVRDV's 2002 housing at Ypenburg on the edge of The Hague. Here, Winny Mass, Jacob van Ries and Nathalie de Vries (collectively known by their initials) designed a series of houses, each clad In a single, often vividly coloured, material terracotta roof tiles, green or blue ceramic tiles, profiled aluminium panels or timber shingles. Like Hudson, they also pared the houses down, removing all external detailing, untll they read like childish caricatures of thome'.

MVRDV's design was a critique of Dutch developer housing and its tendency to overload homes with materials and superfluous details. Hudson Architects also has a political agenda, but it is a quite dififerent one.

The Cedar House is an experiment in lowcost housing. Although it is designed for a private client, the budget was limited: total building costs are about $£ 245,000$, which for a $215 \mathrm{~m}^{2}$ house works out just over $£ 1,000 / \mathrm{m}^{2}$.

This is something of a departure for the practice. Hudson Architects made its name in the 1990 s wth a number of highly site-specific houses (one thinks particularly of Baggy House in North Devon, which won the Sunday Times/Royal Fine Art Commission's Building of the Year Award in 1995). One-off houses continue to be part of the practice's repertolire, but Anthony Hudson says be is increasingly drawn to the challenges of designing low-cost
mass housing. The office has started to do some small-scale development and is working with Countryside Properties on a mixed tenure housing scheme in Norwich. The hope is that the lessons of the Cedar House can be applied to schemes such as Deputy Prime Minister John Prescott's recently announced competition for low-cost housing for first-time buyers.

Material choices at the Codar House arose from pragmatic decistons about cost and performance. The house is all about the economles of structure. It is this that's the generator of the form,'Hudson says.

The cedar shingles, now such a part of the house's identity, could easily have been some other cladding; shingles were just cheaper than weatherboarding or other options. The key to the Cedar House is not so much its dramatic skin as what goes on beneath.

The house is made from prefabricated timber panels, constructed off-site. Once the foundations had been laid, the panels were erected in a week using a design and build contract. Although it took time to understand the possibilities of the Framework system chosen, the reduction in on-site time was what enabled so large a house to be built to so tight a budget. Prefabrication always sounds like such a good idea but all too often the result looks like Portakabins bolted together (see Raines Dairy, RIBAJ April 04). Not here. Framework is a panel system (see box page 48) as opposed to a modular system and Hudson says it did not limit the design, which was always going to be straight-forward given the limits of the budget. 'We were sure we could do something ineredi-
bly exciting but simple,' he says. 'It was a nice marriage of brief and intention.'

The other determining factor in the design was that the site is in a flood plain. After discussions with various agencies and a number of risk assessment reports, permission was granted for the building - with the proviso that It was constructed 1 m off ground level and the first 1.5 m of construction was water resistant. This, and the new disability discrimination legislation, accounts for the ramping walkway that leads you up to the ralsed front door lits galvanised hood is intended to throw water off the buildingl. Once inside the only obvious indication of the sacrificial' daturn is that all electrical sockets are raised above this point.

Otherwise you would have no idea that the house - which includes a large photographic studio, dark room and office - was hemmed in by these exigencies. The finishes are simple but the spaces are generous and uplifting, particularly the main living room with its huge east-west windows and soaring ceiling (at its apex, the roof is well over 5 m ). Careful thought has been given to the building's orientation and the location of windows that frame, rather than overwhelm, the view. The landscaping has yet to be started but when this is done it will further enhance the building's relationship with the river and the countryside around.

As a striking modern home for a client of limited means, the Cedar House is a considerable success. It will be even more interesting if the lessons learned here can be applied with similar panache to solve the crisis in affordable housing.

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