THE HOUSE THAT KEVIN BUILT

As featured on Channel 4’s ‘Grand Designs Live’

*Europe’s first truly sustainable prefabricated building*

Designed by Duncan Baker-Brown RIBA
of BBM sustainable design ltd
www.bbm-architects.co.uk
NEW BUILD: The House That Kevin Built (THTKB)

- To create Europe’s first truly environmentally-friendly ‘Prefab house

- Using predominately non-toxic, organic, locally-sourced, replenishable and/or secondhand/waste materials

- To use fully integrated rooftop ‘renewables’

- And do it live on TV in 6 days! Seen on Channel 4’s Grand Designs Live with Kevin McCloud
THTKB: THE IDEA

• To combine two brand new innovative green prefab systems

• MODCELL - Heavyweight, highly insulated, locally sourced, affordable replenishable/waste materials - combining a minimal amount of expensive engineered timber plus cheaper straw/lime/hemp
  Creating cellular, self-cooling/warming ground floor bedrooms & bathroom

• FACIT - Lightweight, highly insulated, replenishable/waste materials, all cut out with a computer controlled router
  Creating double height open plan living room/kitchen/dining room ‘balloon’

• Both designed by UK Architects pushing the boundaries
THTKB: THE AMBITION

- To prove that fluffy, crumbly, organic low carbon materials can compete with their more established high energy high carbon counterparts
- To focus on prefabrication because it reduces wastage on site to a minimum (up pf 20% of building material ends up in landfill using traditional ‘wet’ trades)
- To use high tech construction methods to reduce time on site, material waste and accuracy on site
- To prove that an understanding of lightweight material to insulate and heavyweight materials to store energy will mean that you don’t have to rely too much on expensive high tech gear to create a low carbon house
MODCELL’s off-site Flying Factory
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DAY 1: MODCELL ON SITE
DAY 2: THATCH
DAY 2: UPSTAIRS WITH FACIT
DAY 2: UPSTAIRS WITH FACIT
DAY 2: UPSTAIRS WITH FACIT
DAY 2: THTKB
DAY 3
DAY 3: RAMMED EARTH
DAY 3: TOPPING OUT
DAY 4: ACCOYA WINDOWS
RUBBER ROOF/ PAPER LINING
DAY 4: GLASS SOLAR TILES
SOLAR THERMAL & PHOTOVOLTAIC
RECYCLED PAPER & PLY CLADDING
DAY 5: COMPLETE
DAY 5: COMPLETE
DAY 5: ENTRANCE HALL
DAY 5: BATHROOM
DAY 5: THE LIVING ROOM
DAY 5: THE DINING ROOM
The House that Kevin Built

- G.I.A : 85m²
- Type of Project: Prefab New build
- Final Account: £170,000+vat
- Estimated Cost/m² inc. renewables: £2,000/m²
- Contact Period: 5 days
- Energy Rating: A+
  - Code For Sustainable Homes Rating: Level 5
  - Renewables:
    - Solar Thermal Glass Tiles
    - 1.5kW Photovoltaic Tiles
4000 PEOPLE IN TWO DAYS
PRECISION CUTTING & FABRICATION
UK’S FIRST A+ RATED HOUSE!
We have the capacity to make a real difference