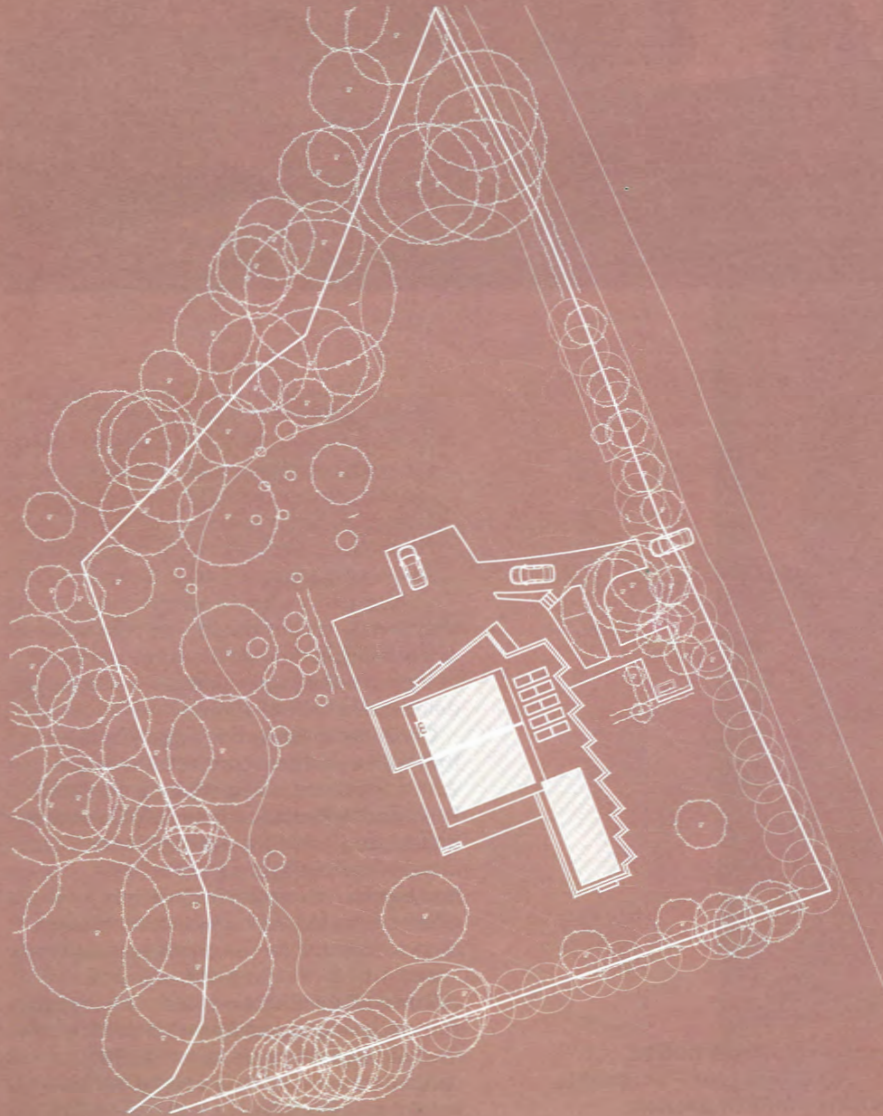




Coast House Hudson Architects

Photography by Joakim Borén



PROJECT DATA

Start on site October 2019
Completion April 2021
Construction cost Undisclosed
Architect Hudson Architects
Client Private
Structural engineer Create Consulting Engineers
M&E consultant Webb Yates
QS Andrew Morton Associates
Main contractor Grocott & Murfit
CAD software used ArchiCAD
Annual CO₂ emissions 8.56 kgCO₂/m² (estimated)
Predicted design life 60 years
Embodied/whole-life carbon 494 kgCO₂/m² (estimated)





PROJECT

Coast House is a new family home near the north Norfolk coast, overlooking a broad valley. Its main central pavilion contains an open plan kitchen, dining and living area, which can be opened almost entirely onto a large, south-facing terrace through full-height glazed doors. A snug and study are tucked to one side of the main living space, facing west to catch the evening light.

The central pavilion sits beneath a gull-wing roof, which serves to animate the space and admits light through high-level clerestory glazing. It also reduces the perceived mass of the building, thanks to its shallow pitch. The roof cantilevers over the south and west walls, offering shade in summer months.

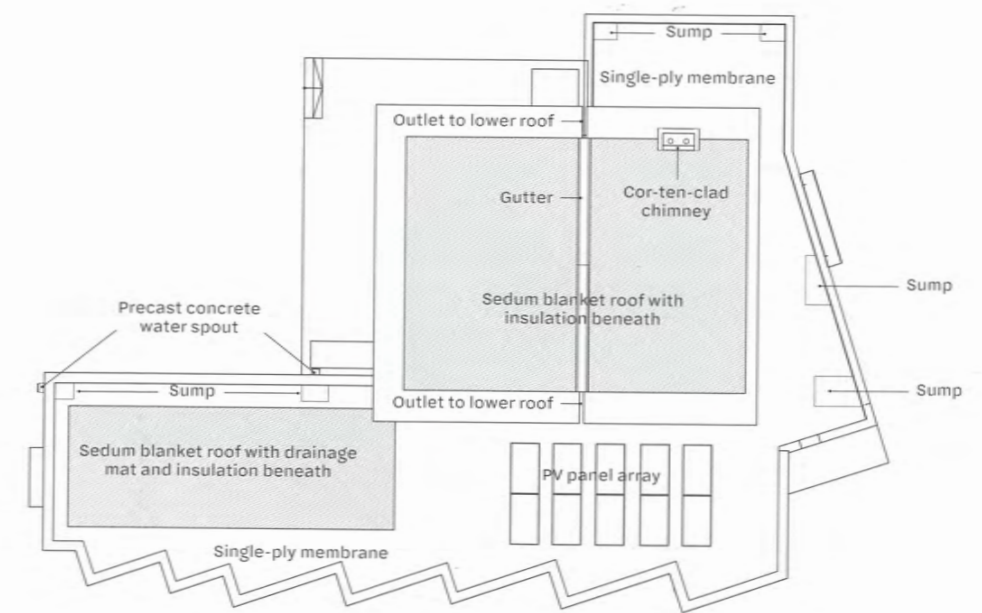
An adjacent bedroom wing contains four en suite bedrooms off a broad corridor, each enjoying private garden views and morning light, thanks to a faceted arrangement of windows set into the external wall with an intriguing zig-zag profile.

The building employs a number of sustainable building strategies, including an air source heat pump, alongside passive solar gain strategies to minimise heating demand. A green sedum roof helps to increase biodiversity and facilitate the wider drainage strategy. PV panels are also incorporated for on-site energy generation.
*Anthony Hudson, director,
Hudson Architects*





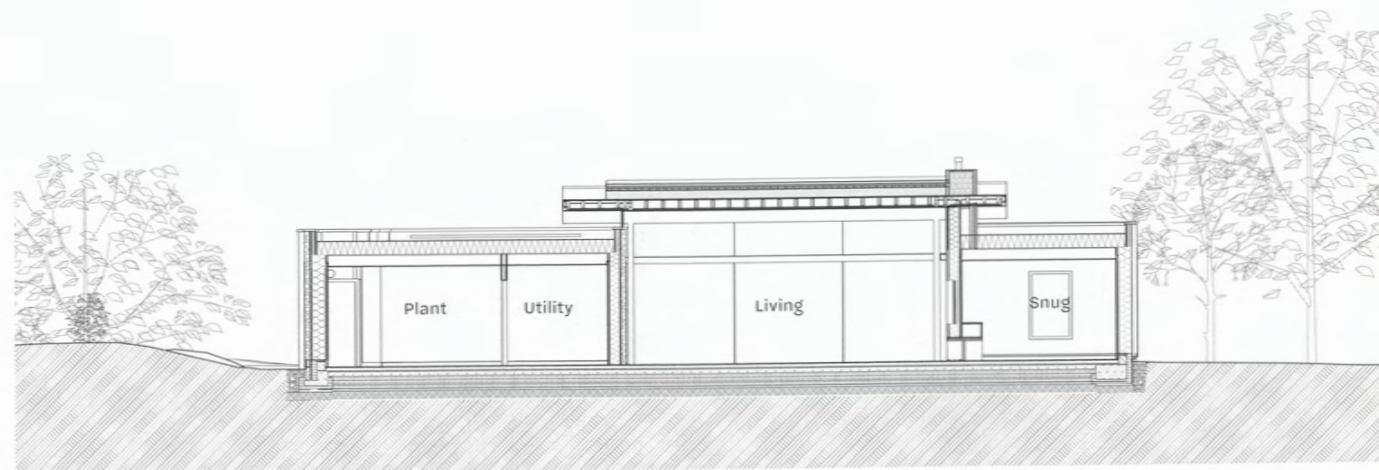
ROOF PLAN



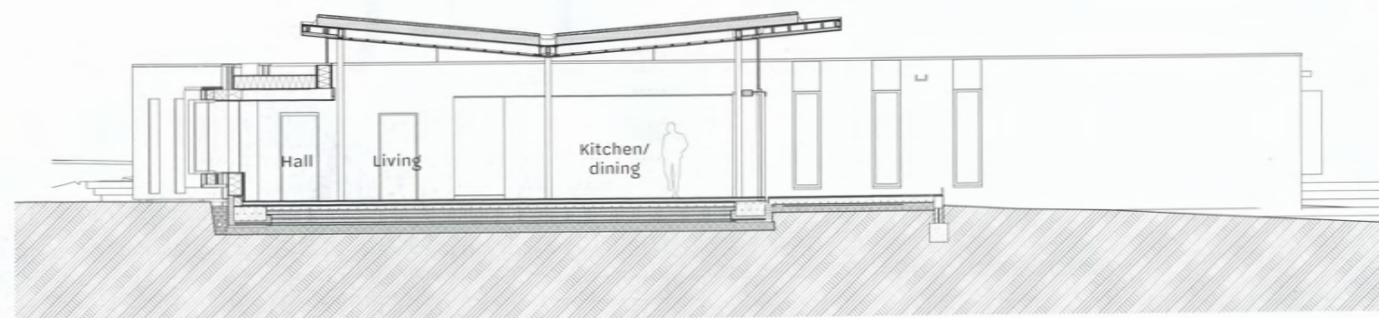
GROUND FLOOR PLAN



SECTION A-A



SECTION B-B



0 2m



SELECTED PRODUCTS

Cladding

NES Solutions
Cor-ten rainscreen
Pre-weathered Cor-ten steel and marine-grade PPC aluminium flashings
nes-solutions.co.uk

Glazing systems

Panoramah, Velfac
Triple-glazed sliding doors and composite windows
panoramah.co.uk, velfac.co.uk

Windows

IQ Glass
Frameless glazing
iqglassuk.com

Flooring

Mosa Terra Maestricht
Mid-grey large-format tiles
Main living area
mosa.com

Ceiling panels

Specialised Panel Products
Perforated acoustic fire-rated panels
Main living area
specialisedpanels.co.uk





SPECIFICATION

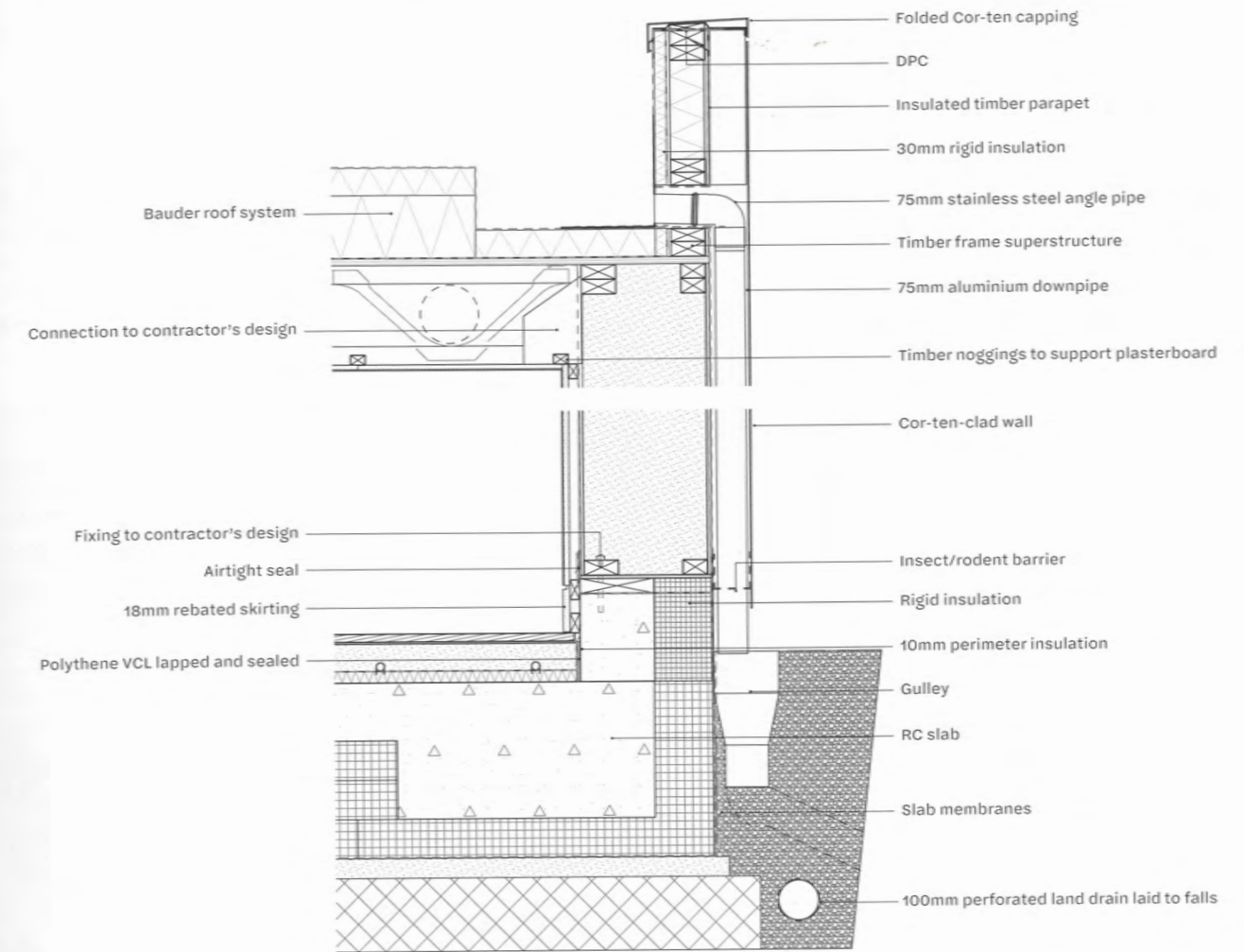
This subtle, single-storey home sits low within its setting and uses a robust palette of materials that combines traditional local materials with more contemporary tones and textures.

Coast House occupies a highly sensitive site close to one of Norfolk's finest Grade I-listed medieval churches and within both a conservation area and the North Norfolk Coast Area of Outstanding Natural Beauty. When considering proposals for the site, we sought materials that would respect this extraordinary setting.

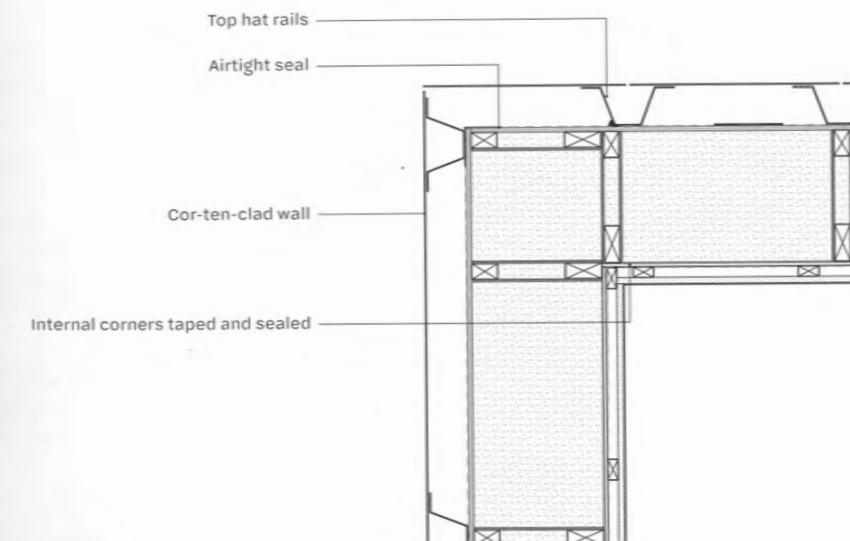
Coast House sits on the edge of a village which, like many others in north Norfolk, is characterised by flint cottages, pitched pantile roofs and red brick barns. This informed the treatment of the east-facing bedroom 'wing', which appears as a 'crinkle crinkle' wall of knapped flint, echoing the stone walls that line the road on the approach into the village. Elsewhere, walls and the roof are clad in Cor-ten steel – a contemporary interpretation of the red clay pantiles and traditional Norfolk bricks used in older buildings nearby.
Anthony Hudson, director, Hudson Architects



TYPICAL COR-TEN WALL DETAIL SECTION THROUGH DOWNPIPE



TYPICAL COR-TEN WALL EXTERNAL CORNER DETAIL



0 200mm