

LANSDOWNE DRIVE

Urban Category

Tectonics architects

UK PASSIVHAUS AWARDS 2016

7th JULY - LONDON

PROJECT OVERVIEW

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Location:

Hackney, East London

Building Type:

Private House

T.F.A.

94 m²

Construction:

Reinforced concrete and prefabricated cross laminated timber

Completion date:

April 2015

Occupied since:

04/15

Budget:

£3000 m²

Key Team:

Tectonics architects, Accredited Passivhaus Design,
Michael Hadi Associates, Urban, Warm



Site plan

DESIGN PHILOSOPHY

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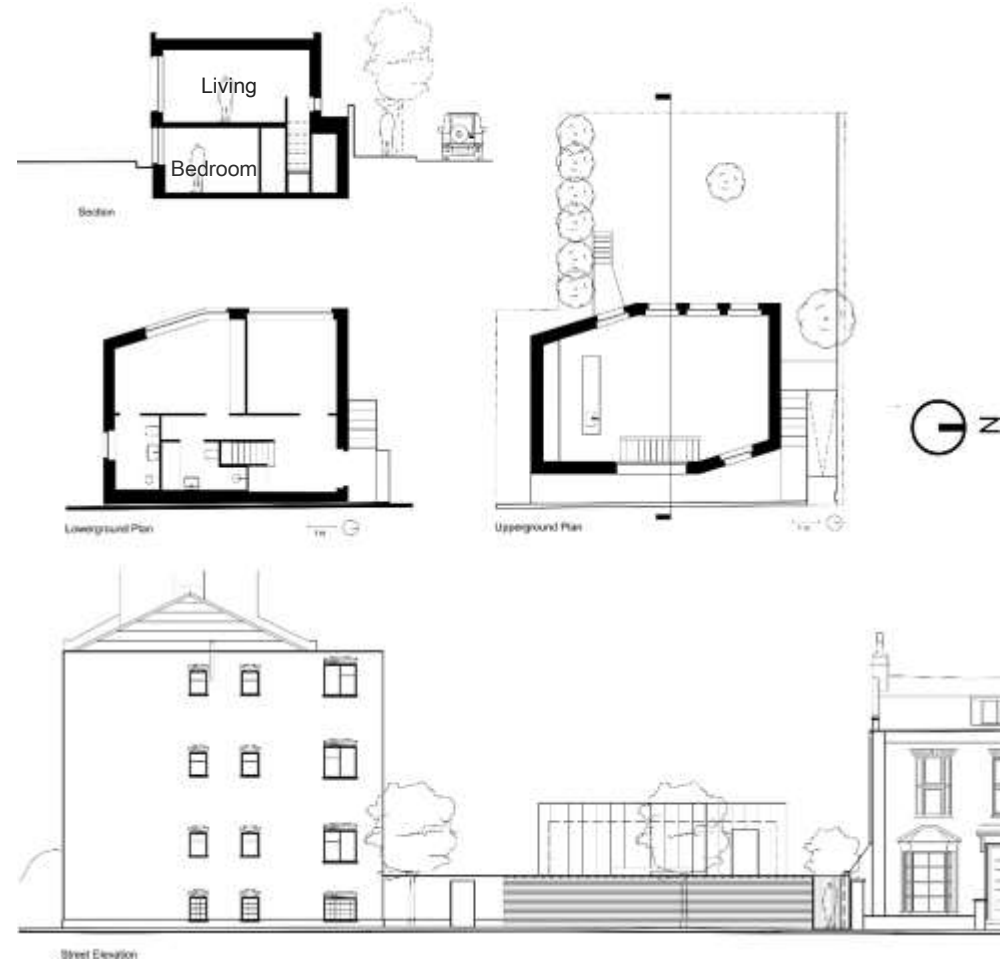
Simplicity of Construction, and Measurable Performance

Context :

- Conservation Area.
- Keep a garden for the house
- Low lying volume, set back behind a garden wall – a cottage
- No solar gain from the South
- Garden views to the West

Layout:

- Open plan on the upper floor- a large 'room'
- Access from the lower level
- Flexibility – use can change with time



AESTHETICS

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AESTHETICS



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ENERGY PERFORMANCE

Primary Energy
83.73 kWh/m²/yr

Heating Demand
13.64 kWh/m²/yr

Air Changes/Hr
0.29 @50pascals

Heating Load
8 W/m²

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USER FEEDBACK

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The occupants are a retired couple who relocated from a traditional house in Kent

- Comfortable
- Full of light
- Quiet
- Stable temperature
- Air quality



CONSTRUCTION APPROACH

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Lower ground floor:

In situ concrete on Isoquick insulation.

In situ concrete perimeter walls

Upper ground floor:

Floors, internal and walls, and roof in Cross Laminated Timber

Prefabricated in Cross Laminated Timber, erected in 2days

Wood fibre insulation.



CONSTRUCTION APPROACH

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MECHANICAL SERVICES & SHADING

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External blinds



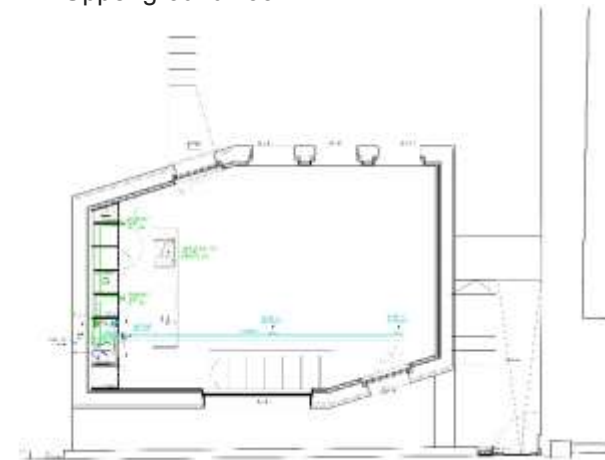
Internal blinds



MVHR



Upper ground floor



Lower ground floor

FURTHER INFORMATION

TEAM CREDITS

Client:

Private

Architect:

Tectonics architects

Consultants:

Accredited Passivhaus Design

Micheal Hadi Associates

Eurban

Certifier:

Warm

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