**Project name**  Passivhaus Mews II  

**Project summary**  Overcoming a tight budget, constricted access issues, & sudden changes to the team, this triumphant urban infill delivers a compact light-filled comfortable home. The owners brief was centred on comfort and ease of use, but through her profession as a physiotherapist, it was clear that health was also very important; this made the Passivhaus approach an easy choice. Passivhaus Mews II accommodates three bedrooms, two bathrooms, a hydro-therapy pool and carport into the site of a double garage, at the back of the owners old house.

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**Projected build start date**  01 Nov 2017  
**Projected date of occupation**  Occupied  
**Project location**  Camberwell, London, London, England  
**Energy target**  PassivHaus  
**Build type**  New build  
**Building sector**  Private Residential  
**Property type**  Existing external wall construction  
**Energy Cost**  Other
### Project team

**Organisation**

**Project lead**

**Client**

**Architect** RDA Architects

**Mechanical & electrical consultant(s)** Green Building Store

**Energy consultant(s)**

**Structural engineer**

**Quantity surveyor**

**Other consultant** Certifier - MEAD Ltd

**Contractor** CLC Build

### Design strategies

- Planned occupancy
- Space heating strategy
- Water heating strategy
- Fuel strategy
- Renewable energy generation strategy
- Passive solar strategy
- Space cooling strategy
- Daylighting strategy
- Ventilation strategy
- Airtightness strategy
- Strategy for minimising thermal bridges
- Modelling strategy
- Insulation strategy
- Other relevant retrofit strategies
- Other information (constraints or opportunities influencing project design or outcomes)

### Energy use

**Fuel use by type (kWh/yr)**

<table>
<thead>
<tr>
<th>Fuel</th>
<th>previous</th>
<th>forecast</th>
<th>measured</th>
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</thead>
<tbody>
<tr>
<td>Electric</td>
<td></td>
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<tr>
<td>Gas</td>
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</table>
### Primary energy requirement & CO2 emissions

<table>
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<tr>
<th>Fuel</th>
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<tbody>
<tr>
<td>Oil</td>
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<tr>
<td>LPG</td>
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<td>Wood</td>
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### Renewable energy (kWh/yr)

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<thead>
<tr>
<th>Renewables technology</th>
<th>forecast</th>
<th>measured</th>
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| Energy consumed by generation |          |          |

### Airtightness (m³/m².hr @ 50 Pascals)

<table>
<thead>
<tr>
<th></th>
<th>Date of test</th>
<th>Test result</th>
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<tbody>
<tr>
<td>Pre-development airtightness</td>
<td>-</td>
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<tr>
<td>Final airtightness</td>
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### Annual space heat demand (kWh/m².yr)

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<tr>
<th>Space heat demand</th>
<th>Pre-development</th>
<th>forecast</th>
<th>measured</th>
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### Whole house energy calculation method
- PHPP

### Other energy calculation method
- Predicted annual heating load -
- Other energy target(s)

### Building services
- Occupancy
- Space heating
- Hot water
- Ventilation
- Controls
- Cooking
- Lighting
- Appliances
- Renewables
## Building construction

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