Project name  1 - 19 Peek Close, Lavenham, CO10 9FR  
Project summary  Proposed Affordable Housing Development, Former Depot, off Melford Road, Harwood Place, Lavenham

Project Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>Projected build start date</td>
<td>26 Feb 2018</td>
</tr>
<tr>
<td>Projected date of occupation</td>
<td>18 Oct 2019</td>
</tr>
<tr>
<td>Project stage</td>
<td>Occupied</td>
</tr>
<tr>
<td>Project location</td>
<td>Lavenham, Suffolk, England</td>
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<tr>
<td>Energy target</td>
<td>AECB Silver</td>
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<tr>
<td>Build type</td>
<td>New build</td>
</tr>
<tr>
<td>Building sector</td>
<td>Public Residential</td>
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<tr>
<td>Property type</td>
<td>Semi-Detached</td>
</tr>
<tr>
<td>Existing external wall construction</td>
<td>Masonry Cavity</td>
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<tr>
<td>Existing external wall additional information</td>
<td></td>
</tr>
<tr>
<td>Existing party wall construction</td>
<td></td>
</tr>
<tr>
<td>Floor area</td>
<td>120.2 m²</td>
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</tbody>
</table>
Floor area calculation method

PHPP

**Project team**

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Parsons &amp; Whittley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project lead</td>
<td></td>
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<tr>
<td>Client</td>
<td>Hastoe Housing Association</td>
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<tr>
<td>Architect</td>
<td>Parsons &amp; Whittley</td>
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<tr>
<td>Mechanical &amp; electrical consultant(s)</td>
<td>Alan Clarke</td>
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<tr>
<td>Energy consultant(s)</td>
<td>Parsons &amp; Whittley</td>
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<tr>
<td>Structural engineer</td>
<td>Ken Rush Associates</td>
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<tr>
<td>Quantity surveyor</td>
<td>Potter Raper</td>
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<tr>
<td>Other consultant</td>
<td></td>
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<tr>
<td>Contractor</td>
<td>DCH Construction</td>
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**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**

<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>
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<td></td>
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<tr>
<td>Gas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LPG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wood</td>
<td></td>
<td></td>
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</table>
Primary energy requirement & CO2 emissions

<table>
<thead>
<tr>
<th></th>
<th>previous</th>
<th>forecast</th>
<th>measured</th>
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</thead>
<tbody>
<tr>
<td>Annual CO2 emissions</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>(kg CO2/m².yr)</td>
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</tr>
<tr>
<td>Primary energy</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>requirement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(kWh/m².yr)</td>
<td></td>
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</table>

Renewable energy (kWh/yr)

<table>
<thead>
<tr>
<th>Renewables technology</th>
<th>forecast</th>
<th>measured</th>
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<tbody>
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<tr>
<td>-</td>
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<tr>
<td>Energy consumed by</td>
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<td></td>
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<tr>
<td>generation</td>
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Airtightness (m³/m².hr @ 50 Pascals)

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<tr>
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<th>Test result</th>
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<tr>
<td>Pre-development airtight</td>
<td>-</td>
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<tr>
<td>Final airtightness</td>
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</table>

Annual space heat demand (kWh/m².yr)

<table>
<thead>
<tr>
<th>Space heat demand</th>
<th>Pre-development</th>
<th>forecast</th>
<th>measured</th>
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</thead>
<tbody>
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</tbody>
</table>

Whole house energy calculation method

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

Strategy for minimising thermal bridges

Building construction

Storeys
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
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<tbody>
<tr>
<td>Volume</td>
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<tr>
<td>Thermal fabric area</td>
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</tr>
<tr>
<td>Roof description</td>
<td></td>
</tr>
<tr>
<td>Roof U-value</td>
<td></td>
</tr>
<tr>
<td>Walls description</td>
<td></td>
</tr>
<tr>
<td>Walls U-value</td>
<td></td>
</tr>
<tr>
<td>Party walls description</td>
<td></td>
</tr>
<tr>
<td>Party walls U-value</td>
<td></td>
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<tr>
<td>Floor description</td>
<td></td>
</tr>
<tr>
<td>Floor U-value</td>
<td></td>
</tr>
<tr>
<td>Glazed doors description</td>
<td></td>
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<tr>
<td>Glazed doors U-value</td>
<td></td>
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<tr>
<td>Opaque doors description</td>
<td></td>
</tr>
<tr>
<td>Opaque doors U-value</td>
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<tr>
<td>Windows description</td>
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<td>Windows U-value</td>
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<td>(G-value)</td>
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<td>Windows light transmittance</td>
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<tr>
<td>Rooflights description</td>
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<tr>
<td>Rooflights light transmittance</td>
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<tr>
<td>Rooflights U-value</td>
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Project images