



#PHTowards2023

# BOWMAN'S LEA STEP-BY-STEP RETROFIT

“Now we feel warm!!!”  
*Dimitri – Long-term  
 Bowman's Lea Resident*



### KEY STATS:

<b>97</b> m <sup>2</sup> TFA	<b>3</b> Occupancy	<b>2018</b> Pre-Certified
<b>923</b> £/m <sup>2</sup> Construction costs	<b>972</b> £/a Running costs	<b>2,097</b> £/a Cost comparison

### PERFORMANCE:

<b>30</b> kWh/m <sup>2</sup> a Heat demand	<b>13</b> W/m <sup>2</sup> Peak heat load	<b>1</b> ACH Airtightness
<b>94</b> kWh/m <sup>2</sup> a Primary Energy Demand	<b>47</b> kWh/m <sup>2</sup> a Primary Energy Service	<b>36</b> kWh/m <sup>2</sup> a EUI
<b>10</b> £/m <sup>2</sup> Demand running costs	<b>0</b> Overheating %	<b>Low</b> kgCO <sub>2</sub> e/m <sup>2</sup> Embodied carbon

Whole-house community engaged deep retrofit of a 1978 mid-terrace townhouse - the first pre certified step-by-step EnerPHit retrofit in the UK

**LOCATION:** Lewisham, London    **STANDARD:** Passivhaus Plus    **FORM FACTOR:** 1.95  
**BUILDING TYPE:** Housing    **CONSTRUCTION:** Timber Frame / Masonry



**TEAM CREDITS:** Client: Harry Patikas, Architect: Retrofit Action For Tomorrow (RAFT), PH Consultant: RAFT, Contractor: Self-Build, Certifier: Kym Mead (MEAD Ltd), ASHP: Next Step Heating (Kaspar Bradshaw), Internorm Windows: Ateco (Tomas Jakubkis), Structural Engineer: Martin Long (Lawson Martin Long)

THANKS TO SPONSORS

