27% of our annual carbon emissions are attributed to the energy needed to run the UK’s buildings, with 18% alone coming from our domestic housing stock. With one of the oldest housing stocks in Europe and many new homes being inadequately built, the UK is currently facing the immense challenge of retrofitting over 28 million buildings by 2050.

Expanding upon our retrofit activities and following an engaging introduction to the Passivhaus Retrofit Masterclass lecture series, we commence the full series this winter, taking an in-depth dive into achieving Passivhaus in several retrofit constructions. Learn first-hand from expert practitioners and enrich your practical and technical knowledge about how Passivhaus can apply to your future retrofit projects.

The Masterclass lecture series is aimed at built environment professionals interested in designing and delivering Passivhaus retrofit projects, including: architects, engineers, consultants, contractors, and self-builders. It is estimated that each Masterclass lecture will be worth 2 PHI renewal credit points.

Join us online for five 90-minute afternoon webinars. Running one session every month, the series addresses multiple constructions from solid wall to cavity construction, covering both residential & non-domestic challenges. View the full series here.
Topics explored in this 90-minute session focusing on cavity wall construction includes:

- Introduction retrofit overview
- Fabric/materials
- Services
- Airtightness strategy
- Comfort and overheating strategy
- Costs and benefits

Speakers
Programme

13:00  Welcome by Chair

13:10  Presentation by Alan Budden, Eco Design Consultants

13:40  Presentation by Sarah Price, QODA Consulting

14:10  Q&A panel

14:30  Close

NB: Programme subject to change

Summary of full lecture series

<table>
<thead>
<tr>
<th>Date</th>
<th>Masterclass lecture</th>
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<tbody>
<tr>
<td>Wednesday 29 September 2021</td>
<td>Introduction</td>
</tr>
<tr>
<td>Wednesday 15 December 2021</td>
<td>Solid wall construction retrofit</td>
</tr>
<tr>
<td>Thursday 27 January 2022</td>
<td>Cavity construction retrofit</td>
</tr>
<tr>
<td>Wednesday 23 February 2022 (date TBC)</td>
<td>Step-by-step retrofit</td>
</tr>
<tr>
<td>Wednesday 30 March 2022 (date TBC)</td>
<td>Multi-residential retrofit</td>
</tr>
<tr>
<td>Wednesday 27 April 2022 (date TBC)</td>
<td>Non-domestic retrofit</td>
</tr>
</tbody>
</table>

NB: Programme subject to change
Format

- Series of five afternoon webinars - running one every month.
- Sessions take place on Wednesdays, with the exception of Cavity construction retrofit on Thursday 27 Jan.
- Webinars will be delivered live & online via zoom.
- The duration of each Masterclass lecture is 1.5 hours, with a concluding Q&A.
- Recordings of each session will be made available to all delegates and valid for 12 months.
- Bookings for individual sessions are available.
- It is estimated that each Masterclass lecture will be worth 2 PHI renewal credit points.

Cost

<table>
<thead>
<tr>
<th></th>
<th>Full Masterclass lecture series</th>
<th>Individual Masterclass lecture</th>
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<tbody>
<tr>
<td><strong>PHT member</strong></td>
<td>£80+VAT</td>
<td>£20+VAT</td>
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<tr>
<td><strong>Non-member</strong></td>
<td>£120+VAT</td>
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