

STBA

SUSTAINABLE TRADITIONAL
BUILDINGS ALLIANCE

Projects update

STBA / SPAB Conference 2020

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BEIS TEIF – Melin Homes
BEIS SMETER – Passiv Systems
STBA Website



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PROT3CT – UCL
Gap Analysis – HE
Guidance Wheel – Trustmark

BEIS TEIF – Melin Homes

Overall aim is to test out the Whole House Approach

- ♦ 30-40 homes across Melin Stock
- ♦ Focus on 'hard to treat' homes:
 - Traditional solid walled buildings
 - Protected buildings
 - 1970's flats

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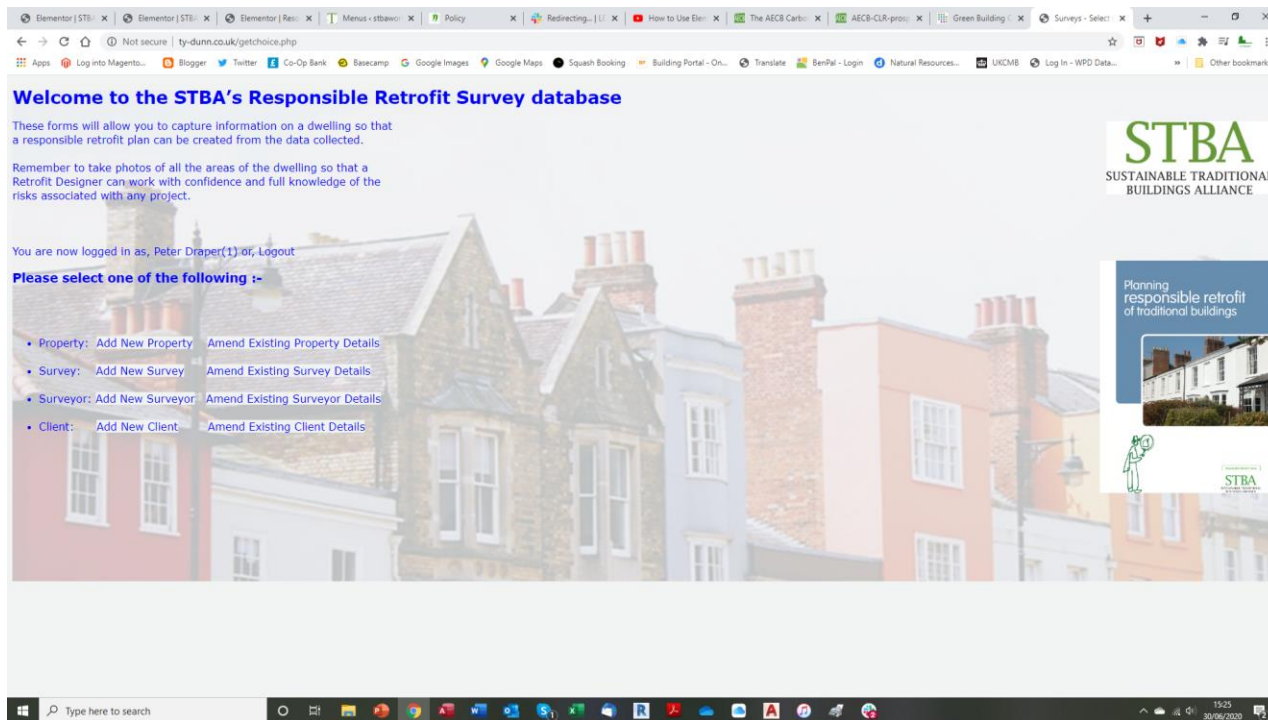
BEIS TEIF – Melin Homes



Process:

- ◆ New survey tool
 - ◆ Training for surveyors
 - ◆ Repairs and enabling works
- ◆ Retrofit works (enhancement to WHA)
 - ◆ Monitoring

- ◆ New survey tool
- ◆ Training for surveyors



<https://stbauk.org/stba-survey-tool/>

◆ Repairs and enabling works



- ◆ Retrofit works (enhancement to WHA)
 - ◆ Windows and Doors
 - ◆ Ventilation
 - ◆ EWI
 - ◆ PV Panels and Storage



- ◆ Retrofit works (enhancement to WHA)
- ◆ Windows and Doors

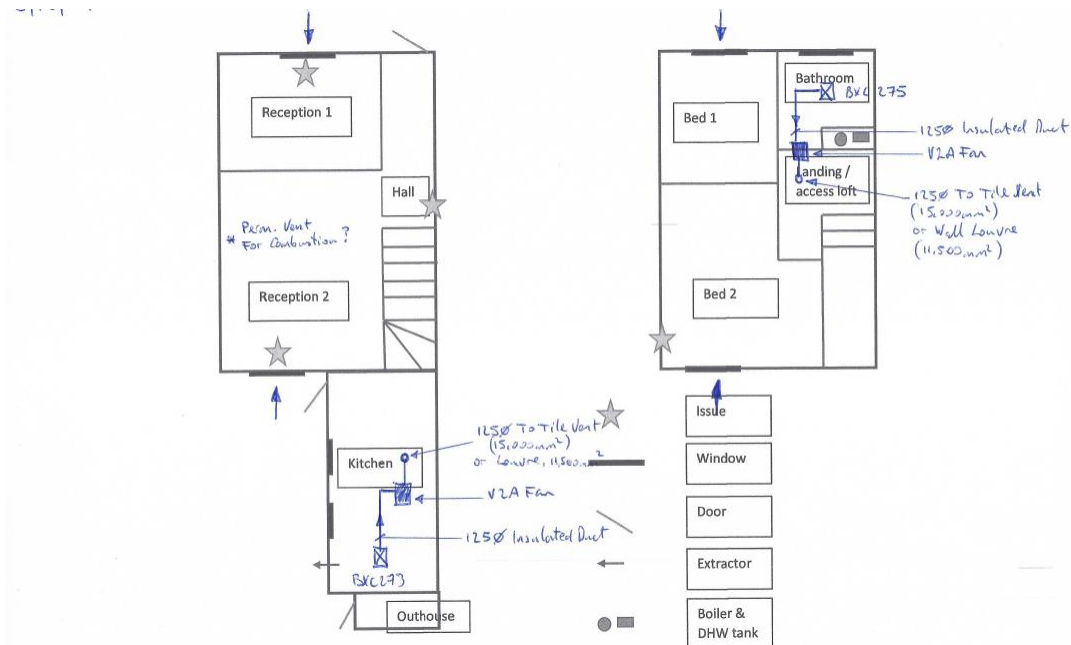


Llywodraeth Cymru
Welsh Government



◆ Retrofit works (enhancement to WHA)

◆ Windows and Doors





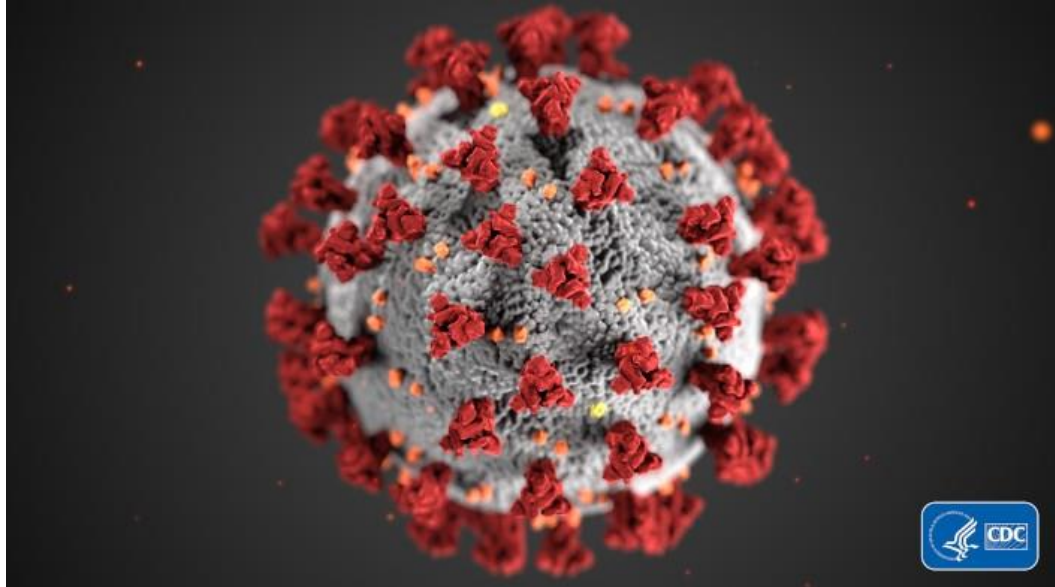
- ◆ Retrofit works (enhancement to WHA)

- ◆ Ventilation



- ◆ Retrofit works (enhancement to WHA)

- ◆ EWI



◆ Retrofit works (enhancement to WHA)

◆ EWI



- ◆ Retrofit works (enhancement to WHA)
- ◆ PV Panels and Storage



BEIS SMETER – Passiv Systems

Overall aim is to monitor the Whole House Approach

- ◆ 30-40 homes across Melin Stock
 - ◆ Relative Humidity
 - ◆ Internal Temperature
 - ◆ CO₂

AirWits Logger and Sigfox detector

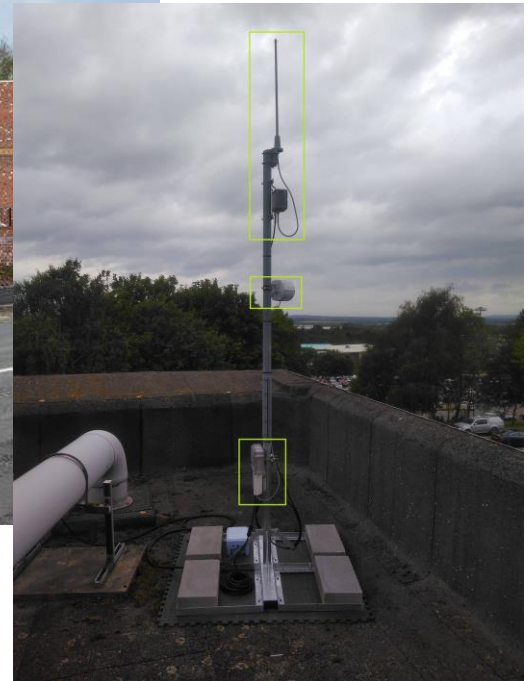


Sigfox Network



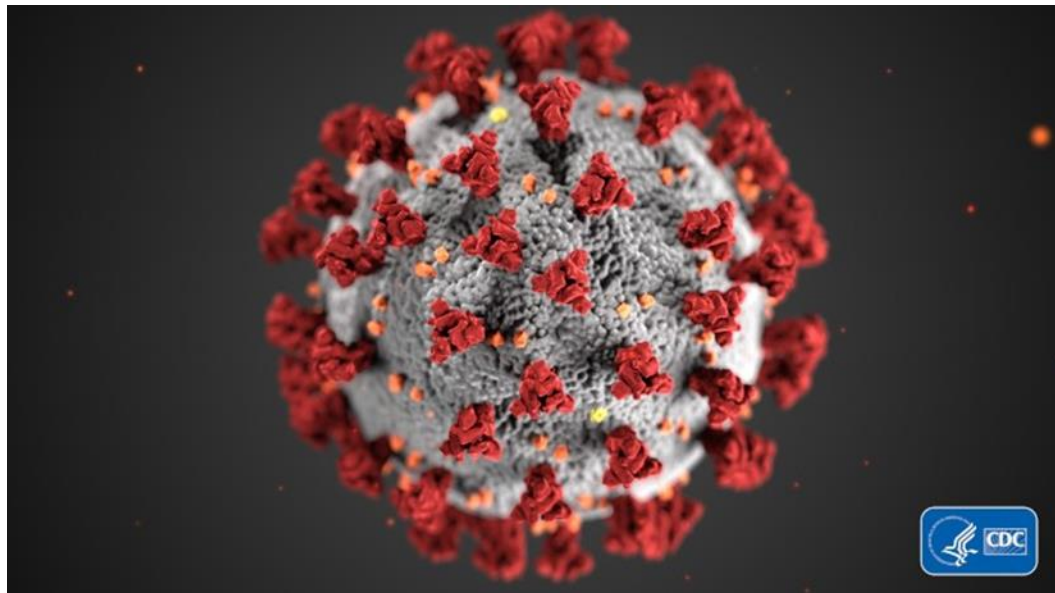


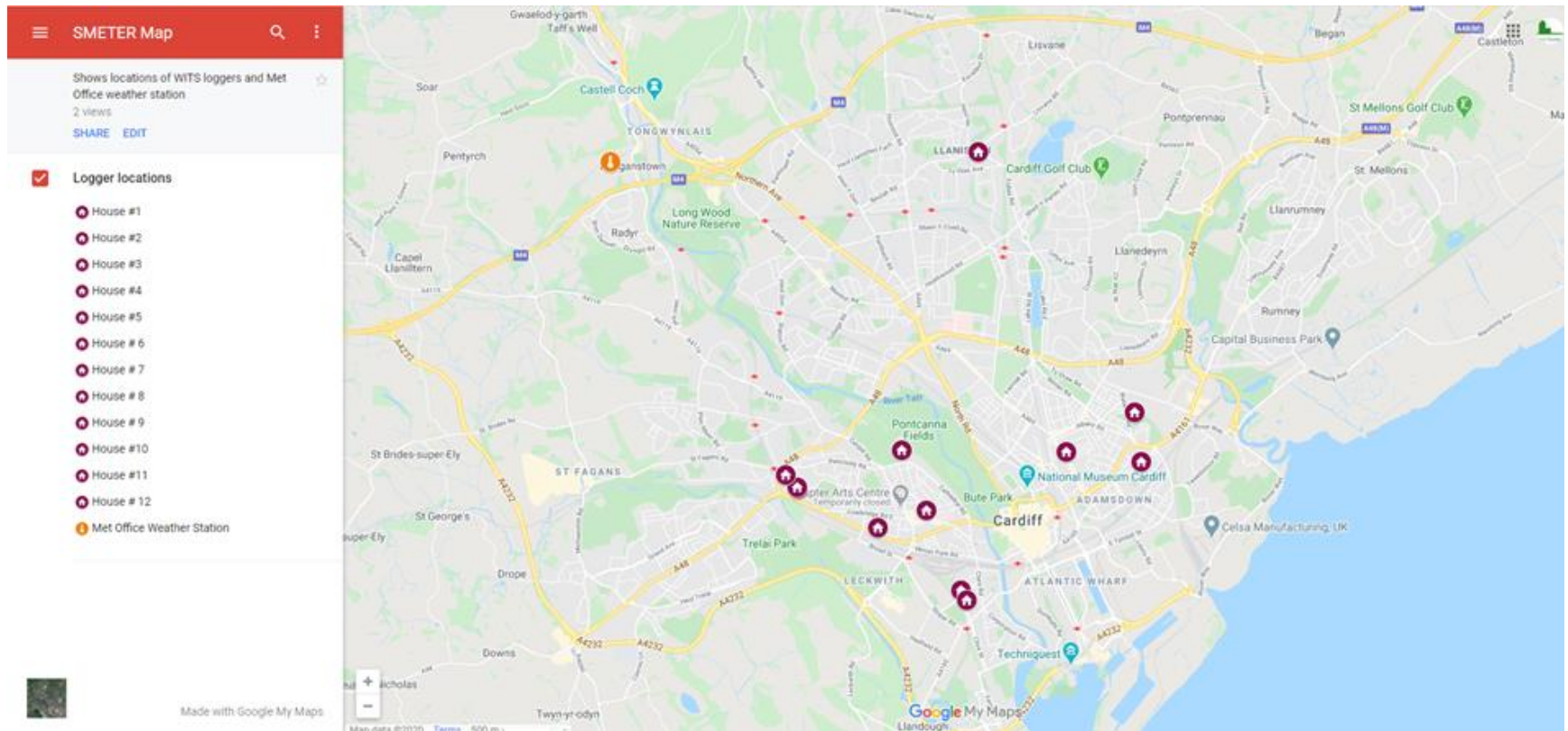
Sigfox Network





Sigfox Network





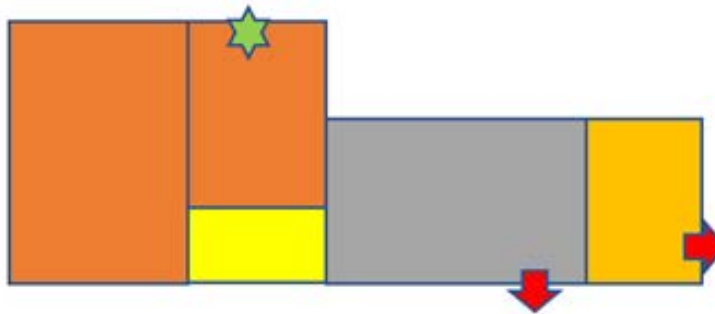
House # 1

Description	
House type	3 bed 1880 End of terrace
House base structure	Victorian stone and brick with modern extensions
Ventilation	PIV, Constant extract G/F bathroom, Mechanical Extract F/F shower room, G/F Extract Hood
Background ventilation	Chimneys only no trickle vents
Heating type	Gas C/H with Wood burning secondary heating <u>inc</u> in Office
Damp present	Minimal due to solid floor
Occupation levels	>1
Occupation type	Family

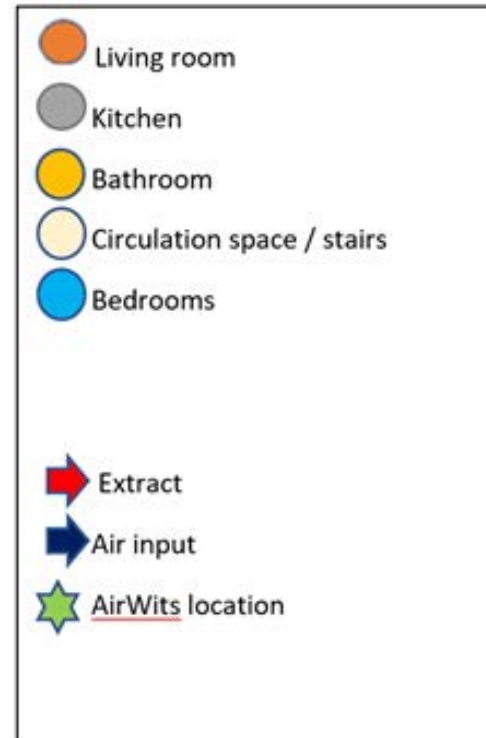
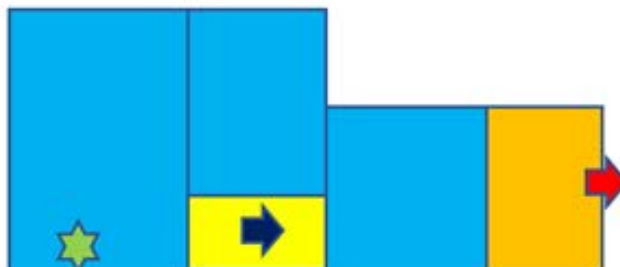
AirWits logger locations:

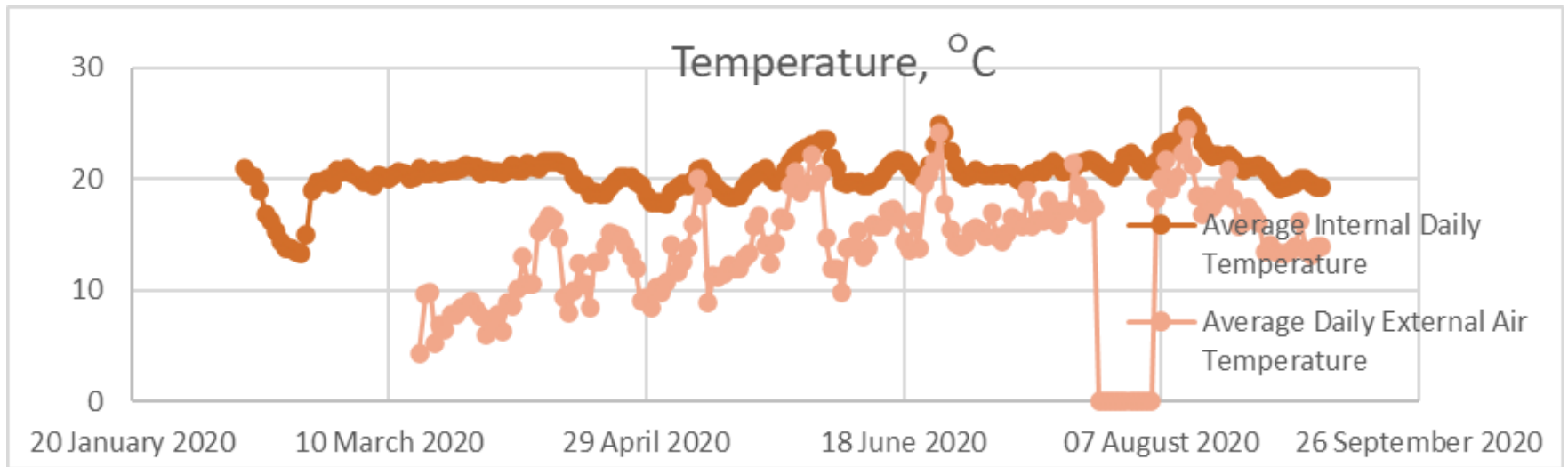
<u>AirWits</u> #	dB	Floor	Location	Notes
00349B6A	-117	Ground	Office	Work from home office, Half term holidays, ironing
0034E1FF	-115	First	Bedroom	

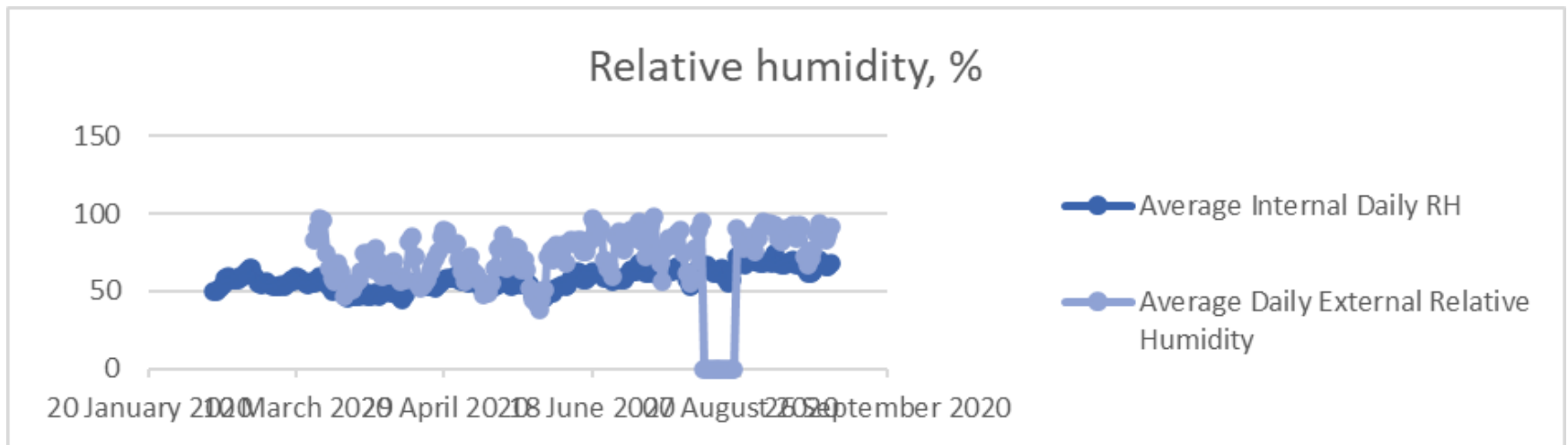
G/F

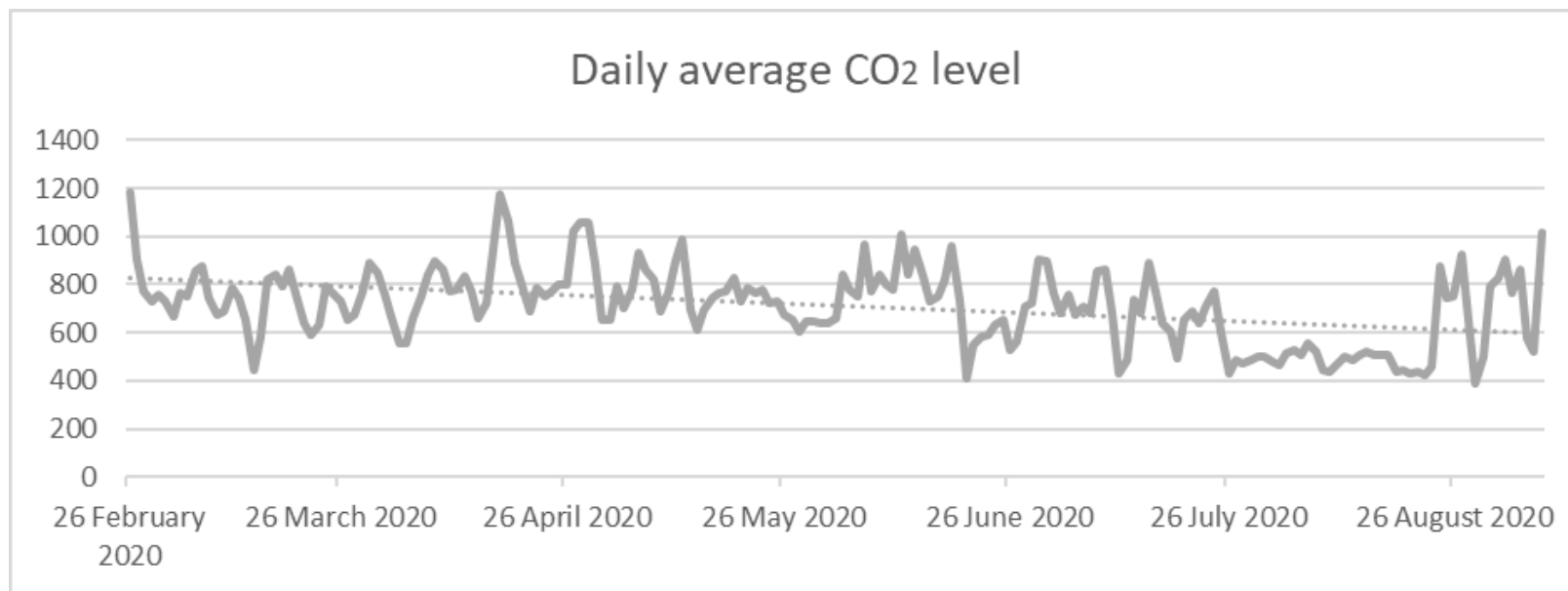


F/F











- ◆ Household engagement
- ◆ Logger placement
- ◆ Interaction with external weather data
Fourwalls / Passiv Systems
- ◆ Traffic Light system for Temp, RH and CO₂

No data yet on effects of Whole House Approach

STBA Website –

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https://stbauk.org

The screenshot shows the STBA website homepage. The browser address bar displays 'stbauk.org'. The website header includes the STBA logo and a navigation menu with links: Home, About Us, What we do, Resources, News, Get involved, and Contact. A search icon is also present. The main banner features a photograph of a stone building with a red door and windows, overlaid with the text 'The Sustainable Traditional Buildings Alliance' in green and 'An alliance of the UK's leading organisations associated with the conservation and improvement of traditional buildings' in orange. Below the banner, a statement reads: 'The aim of the STBA is to deliver a sustainable traditional built environment in the UK.' A Venn diagram with three overlapping circles is displayed: 'Context: The Future of the Past' (top), 'Change: Responsible Retrofit' (bottom left), and 'Continuity: Memory and Maintenance' (bottom right). To the right of the diagram, the text 'Theory and Assessment' and 'Action and Practice' is visible. The browser's taskbar at the bottom shows several open files, including 'passiv systems.jpg', 'rhymney pint pour.jpg', 'rhymney pint.jpg', 'rhymney brewery.jpg', 'diathonite_evolution.jpg', 'hemp lime.jpg', and 'seal-ecocork-lime.jpg'. The system clock in the bottom right corner indicates the time is 17:04 on 03/10/2020.

https://stbauk.org

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The screenshot shows the STBA website with a red circle highlighting the 'STORY OF THE MONTH' and 'TIP OF THE MONTH' sections. The 'STORY OF THE MONTH' section features an aerial view of flooding around Muchelney, Somerset, and discusses Historic England's Position on Climate Change and Sustainability. The 'TIP OF THE MONTH' section features a diagram of a trickle vent and discusses the Whole House Retrofit project in S Wales. The right sidebar contains a 'Get involved' dropdown menu with options like 'STBA / SPAB 2020 Conference', 'STBA Affiliation', 'STBA Events Calendar', 'Tips to share', 'Add a Tip', 'Stories to share', and 'Add a story'. A tweet from BrianSpecMan is also visible in the sidebar.

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Home About Us What we do Resources News Get involved Contact

STORY OF THE MONTH

An aerial view of flooding around Muchelney, Somerset. © Historic England, Damian Grady

Historic England's [Position on Climate Change and Sustainability](#) has been published and it provides great reassurance that heritage bodies like HE, who are members of the [Climate Heritage Network](#) and co-signatories of the [Joint Heritage Sector Statement on Climate Change](#), are onboard and active in the drive for zero carbon.

Some of the main messages being promoted are:

- Understanding sustainability over the long term
- Sympathetic, informed maintenance, upgrade and reuse of existing buildings and historic places is a sustainable approach
- Taking a 'whole building approach' leads to sustainable decision-making
- Considering the whole-life carbon of materials leads to more sustainable decisions

TIP OF THE MONTH

STBA and Aereco have been working together on Whole House Retrofit project in S Wales. Key tip about location of the trickle vents is:

Only install trickle vents in 'wet rooms' – kitchen, bathroom, utility, toilet.

Otherwise this creates a short circuit for air being drawn in from outside just to be immediately drawn out again by the extractor.

So specific trickle vents for 'occupied rooms' and also think about whether they need to be humidity controlled and / or noise reduction options.

Get involved

- STBA / SPAB 2020 Conference
- STBA Affiliation
- STBA Events Calendar
- Tips to share
- Add a Tip
- Stories to share
- Add a story

Brian is 1, Monday 6th October at our Annual Conference:

'Sustainability of Traditional Buildings' with @SPAB1877

Register via: <https://stbauk.org/day.1>

#stbasfab2020

BrianSpecMan
Murphy @BrianSpecMan
Updated Post: Construction Computing 2020 (Award) G#38692
<https://buff.ly/2HBBxk7>

STBA UK Retweeted

TrustMark @TrustMarkUK · 1 Oct
Are you a business looking to become...

<https://stbauk.org/recent-news/>

Recent News - STBA

stbauk.org/recent-news/

Apps Log into Magento... Blogger Twitter Facebook Co-Op Bank Basecamp Google Images Google Maps Squash Booking Building Portal - On... Translate BenPal - Login Natural Resources... UKCMB Log In - WPD Data... Other bookmarks

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Recent News

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Past Newsletters

Recent headlines

Historic England have published a statement on its 'Position on Climate Change and Sustainability'. This is an important publication as it will help to quash any comments about heritage organisations just wishing to preserve the status quo. The issue of traditional buildings over the issue of climate change. It also raises the really important factor of embodied carbon within the existing estate which represents a major carbon sink in the armoury against carbon emissions.

Leeds Beckett University has a new opening for a funded PhD. The doctorate will work in the development and validation of a management tool to achieve the most appropriate and cost effective solutions to moisture imbalance in dwellings. This research will aim to identify the most appropriate solutions and quantify the benefits from finding better ways to treat current damp issues and to help plan the investment strategy to avoid future mould and moisture problems across the housing association People for Places national estate.

Leeds Beckett Uni
31st August 2020

Circular economy grows in Zero Waste. Scotland goes to the next level with manufacturer IndiNature, which makes 'carbon negative' insulation.

Scottish Housing News
19th August 2020

Welsh Government publishes Building Better Places: The Planning System Delivering Resilient and Brighter Futures.

Welsh Government
16th July 2020

The document sets out the Welsh Government's planning policy priorities to assist in taking action in the recovery period after the Covid-19 pandemic crisis. The planning system should be centre stage in the consideration of built and natural environment issues that have arisen from this

https://stbauk.org/recent-news/#

Type here to search

17:10
03/10/2020

https://stbauk.org/events/

The screenshot shows the STBA website's events page. A red oval highlights the main event card for the 'STBA / SPAB Annual Conference Day 3 – Research'. A second red oval highlights the date and time details for this event.

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**STBA / SPAB Annual Conference
Day 3 – Research**

Day 3. Research continues apace in the world of retrofit and its impact on heritage. This day will highlight some of the new areas of research and associated findings that will help to guide the thinking in the industry.

13 OCT
10:00 AM - 12:30 PM
Online Conference

DECEMBER 2020

CI
ED INSTITUT

**CIOB-Project Management and
Supervision: Historic and Traditional
Buildings**

This 1-day course will cover the pertinent issues concerning historic ...

10 DEC
ALL DAY
Online Training

California
Gomez — Liquid Skin

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Thank you for listening

www.stbauk.org