Large Scale Quality delivery Dos & don'ts

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encraft **Encraft Large Scale** securing your energy future Passivhaus delivery onsite





68 affordable homes aim for #Passivhaus at #Saffron Acres snip.ly/t4lzm #housing #MVHR #ventilation #Passivehouse









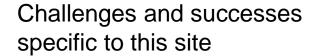












- Multiple fabric specs
- Timing of air tightness tests
- OSB3 boards not air tight
- Learning from previous site (Town Street)
- Build system has been evolved/adapted for PH
- Overall site very well managed





Encraft Large Scale Scale Securing your energy future Passivhaus delivery on site





#GSA associate @johnpratley will be leading tours at Wilmcote House, Portsmouth for #InternationalPassivhausOpenDays gsastudios.com/news



Challenges and successes specific to this site

- Subcontractor changes
- Site teams not following architect's drawings
- CDP/non-CDP contract split
- Repeat training provided
- · Language barrier onsite
- Air leakage through risers
- Programme pressures
- Complexity
- Tenants in situ

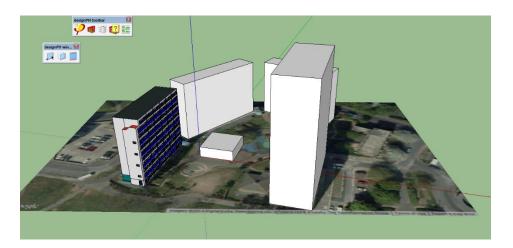


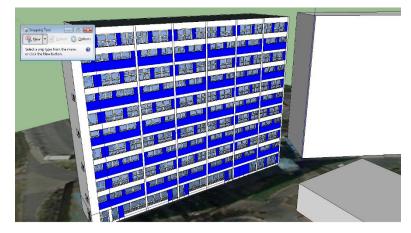


Do encraft securing your energy future

Carry out a <u>detailed</u> Design Stage Assessment at preconstruction stage

- KISS design principles adopted
- Thermal bridges modelled & in PHPP
- MVHR additional vent sheet complete
- Heat distribution & storage fully detailed in PHPP
- Fully detailed air tightness strategy including testing regime
- Overheating risk analysis













Take advice from experienced and Certified Passivhaus consultants/designers

- Adopt Passivhaus early
- Workshops to develop design details in a collaborative environment
- Fit for purpose and hands-on
 Passivhaus training for site teams
- Follow the construction issue drawings onsite, check changes
- Designers should visit site regularly



For a list of Certified Passivhaus consultants/designers, visit http://www.passivhausplaner.eu/





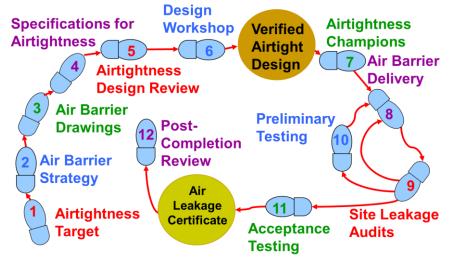




Pay special attention to challenge of achieving air tightness

- Air tightness target, strategy & testing regime clearly documented
- Sequencing notes for key details
- Sufficient time on programme
- Interim air tightness tests whilst air barrier is still accessible
- Appoint an air tightness champion
- Use Encraft Leakchecker fan













Encourage no-blame culture onsite, everyone is responsible for quality

- Consider appointing champions in a few different specialist areas
- Champions are the first point of contact for reporting issues
- Use checklists and require photographic evidence & sign-off before work is covered over
- Use Encraft Leakchecker fan





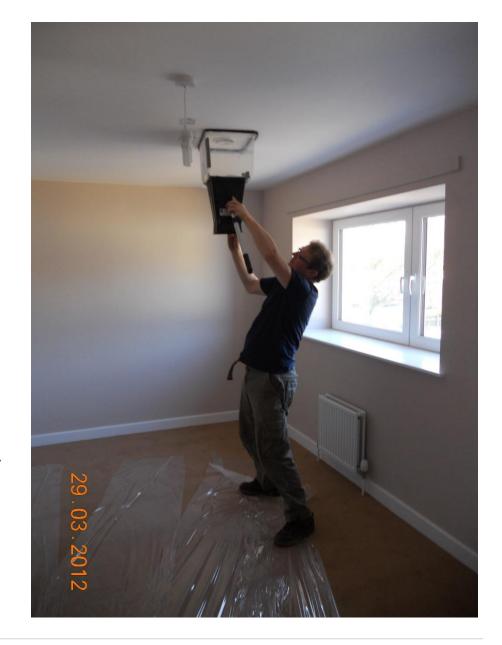




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Pay special attention to design, installation and commissioning of building services

- KISS but fully detail the duct & pipe layouts & spec
- Check changes made onsite do not affect performance
- List of penetrations through air barrier
- Interim commissioning (e.g. duct air leakage) while accessible
- Appoint efficient services champion







Do

Learn from others and share experiences, join the Passivhaus Trust

- Help to promote the Passivhaus standard in the UK
- Influence policy-makers, developers, clients and other key players
- Network with leading Passivhaus experts, practitioners and academics
- Access the latest technical information and experience







Do

Stay positive and set high aspirations, people will rise to the challenge, take pride and enjoy their work more!

Correction does much, but encouragement does more. Johann Wolfgang von Goethe



Discipline Is The Bridge Between Goals And Accomplishment.





Once you replace negative thoughts with positive ones, you'll start having positive results.



" A GOAL
WITHOUT
A PLAN
IS JUST
A WISH

