



Maintaining a Passivhaus Building

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Maintenance: a definition

'Take action to preserve in good order'

'The work of keeping things in good condition'









Building maintenance: four key areas

- Response repairs
- Planned preventative maintenance
- Cyclical works
- Major repairs









Role of IT

Hastoe uses Keystone as Asset Management Database to:

- Manage compliance
- Maintain and analyse Stock Condition Data
- Servicing regime









Hastoe stock breakdown

- Total number of dwellings: 5439
- number of flats: 1805
- number of houses: 3590
- 28 passivhaus units built/occupied (0.5%)
- A further 100 passivhaus units in development (2.4%)









Facts and figures

- Response repairs: £1,668,500 (£306)
- Cyclical works: £867,909
- Major works: £3,987,686
- 73/27% split between planned and responsive

- Number of responsive repairs annually: approx. 9000
- 20% level of variations
- Ave response maintenance cost of £113.25







Housing maintenance model

- Measured term contracts
- NHF Schedule of Rates
- Regionally based multi-traders and sub contractors









Housing customer services

- Dedicated team: Hastoe Direct deals with all forms of customer enquiries
- Orders raised in Genero IT system
- Customer agents diagnose repairs using Locator Plus
- Passivhaus units are flagged to alert when maintenance orders raised







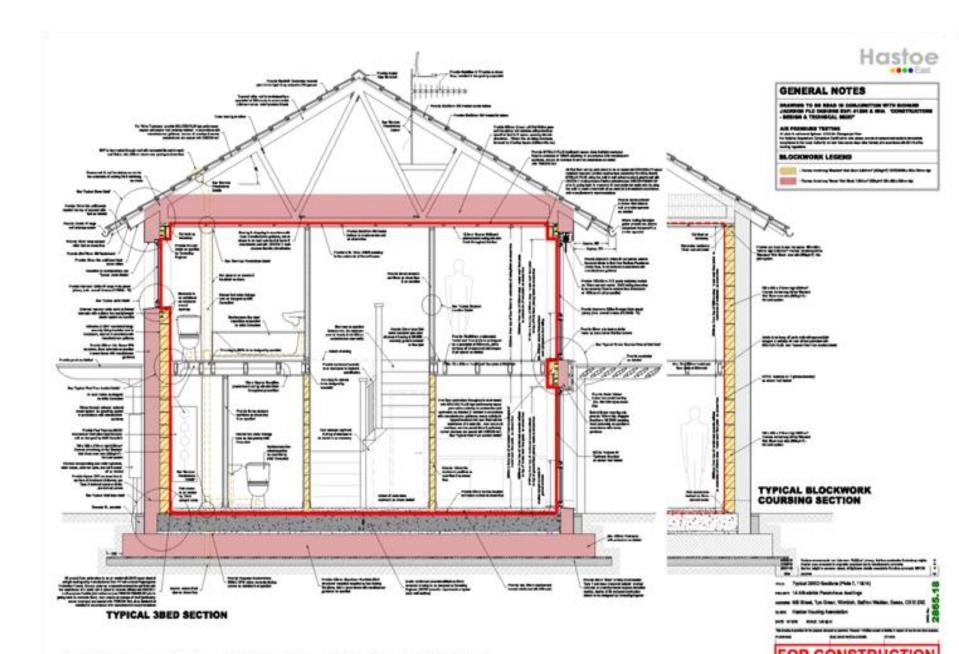
The requirement of Passivhaus maintenance

- Additional information requirements above and beyond usual new build
- Maintenance activities and scope

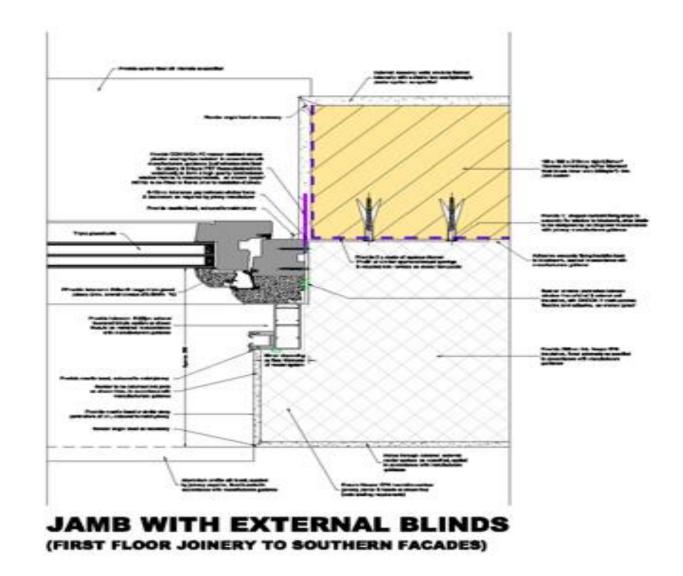








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Challenges for future Passivhaus design

- Producing a set of standard details
- Designing fixing details for windows and doors so that they can simply be renewed by unbolting rather than cutting out.
- Standardising MVHR systems with easy clean reusable filters.
- Tackling Condensation in roof spaces/external walls
- Mould growth on external walls







Cluttered loft







Algae on external walls



