The SuperHomes Rating Scheme



Paul Ciniglio – Refurbishment Lead, NEF



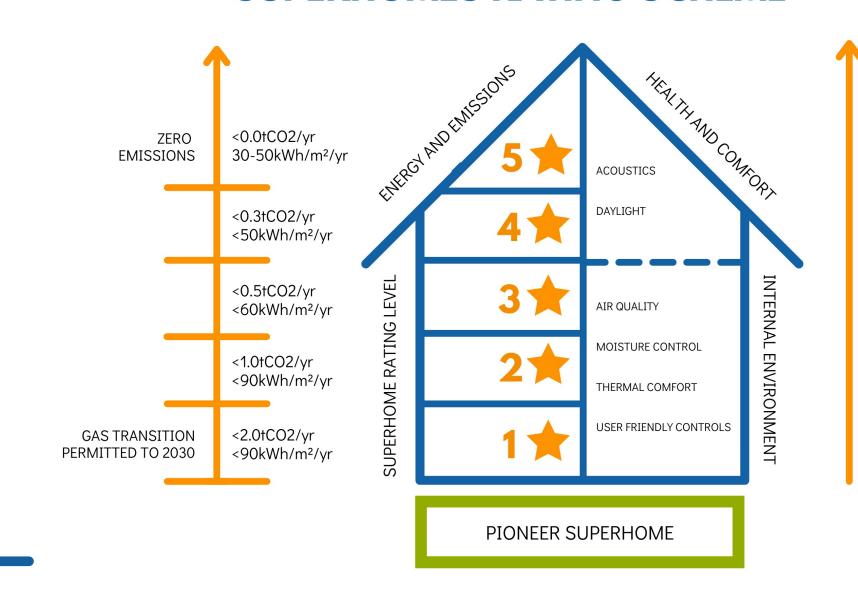






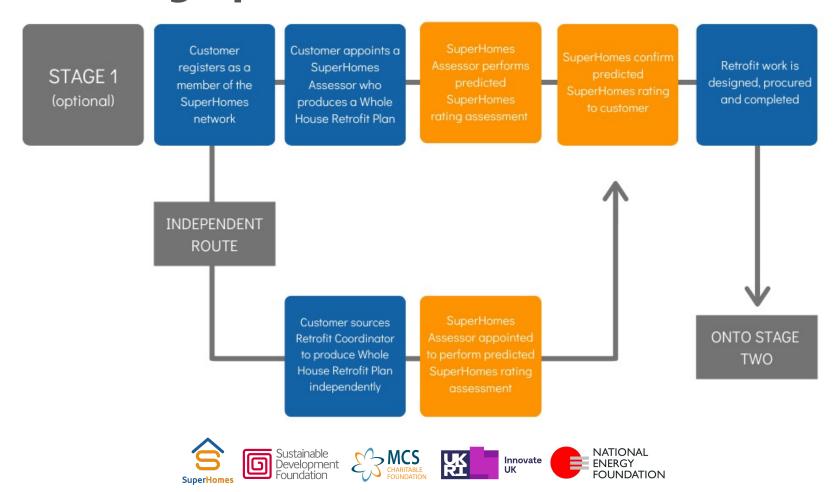


SUPERHOMES RATING SCHEME

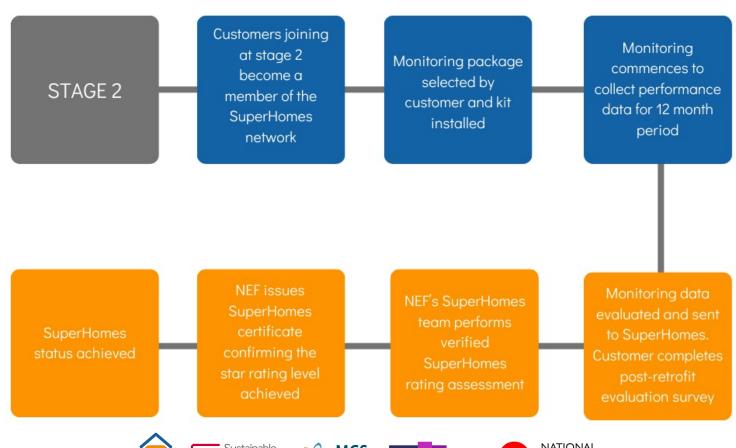


PERFORMANCE

Customer journey stage 1 Design phase – Predicted SuperHome Rating



Customer journey stage 2 Evaluation phase – Verified SuperHome rating













The SuperHomes Rating Scheme

Case study – Swedish Houses

Claire Westron











Case study



































































Energy and emissions

Space heating demand (core)



Carbon emissions (core)



Running costs (optional)



Energy and emissions criteria aim to deliver a balanced approach to retrofit at each tier











Case study

Baseline:

- Walls timber panel with original wood fibre insulation and previous internal insulation
- Loft 250mm insulation
- Ground floor uninsulated, mixture of solid concrete and suspended timber
- Windows and doors U-value ~3.10
- Electric storage heaters

Metrics	Baseline performance
Space heating demand	110 kWh/m²/yr
CO ₂ emissions	1.57 tCO ₂ /yr
Running costs	EPC 53 E











Target 3 ☆ ☆ ☆

Fabric

- Walls additional 60mm insulation to achieve
 0.25 U-value
- Chalet bungalow roof insulation / dormer
- Replacement windows / doors 1.40

Services

- Air source heat pump for space heating and hot water
- Cylinder upgrade, controls and insulated pipework
- Upgraded ventilation where needed

Metrics	Baseline performance
Space heating demand	80 kWh/m²/yr
CO ₂ emissions	0.50 tCO ₂ /yr
Running costs	EPC 71 C













Target 4 ☆ ☆ ☆ ☆

Fabric

- Ground floor insulation
- Replacement windows and doors 1.20
- Air tightness testing to 8

Services

PV 2.00 kWp array

Metrics	Baseline performance
Space heating demand	60 kWh/m²/yr
CO ₂ emissions	0.20 tCO ₂ /yr
Running costs	EPC 83 B

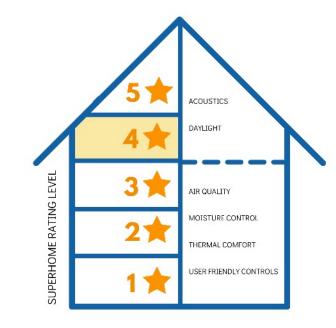












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