


SUPERHOMES RATING SCHEME

TECHNICAL SUMMARY OF REQUIREMENTS

ENERGY AND EMISSIONS

AIM: Deliver retrofits which balance fabric efficiency, low carbon services, and affordable running costs

Criteria Performance benchmarks

Space heating demand (kWh/m ₂ /yr) - fabric efficiency of the building		<90kWh/m ₂ /yr* <90kWh/m ₂ /yr <60kWh/m ₂ /yr <50kWh/m ₂ /yr 30 - 50kWh/m ₂ /yr
---	---	--

*Gas transition SuperHome permitted to 2030

Carbon emissions (tCO ₂ /yr) - regulated emissions as per SAP**		<2.0tCO ₂ /yr <1.0tCO ₂ /yr <0.5tCO ₂ /yr <0.3tCO ₂ /yr <0.0tCO ₂ /yr
--	---	--

<u>Running costs</u> - EPC rating used as a benchmark for running costs	<ul style="list-style-type: none"> Customer alerted if running costs post-retrofit are predicted to increase Min EPC rating 'C' - affordability check in line with the Government Fuel Poverty Strategy targets (optional)
--	--

<u>Energy and emissions key points</u> - All metrics calculated by SAP 10 reflect updated carbon/fuel emission factors and energy suppliers costs - More detailed modeling in PHPP software or similar may be required for projects targeting space heating demand <50kWh/m ₂ /yr
--

HEALTH, COMFORT AND WELLBEING

AIM: Deliver retrofits that achieve a comfortable indoor living environment, benefiting occupant health and wellbeing

Criteria Performance benchmarks

<u>Thermal Comfort</u>	21°C living rooms, 18°C other rooms (Maintained 9/24hrs and min 16°C) Overheating not exceeding >26 °C for more than 1% of annual hours in bedrooms 10pm-7am
------------------------	--

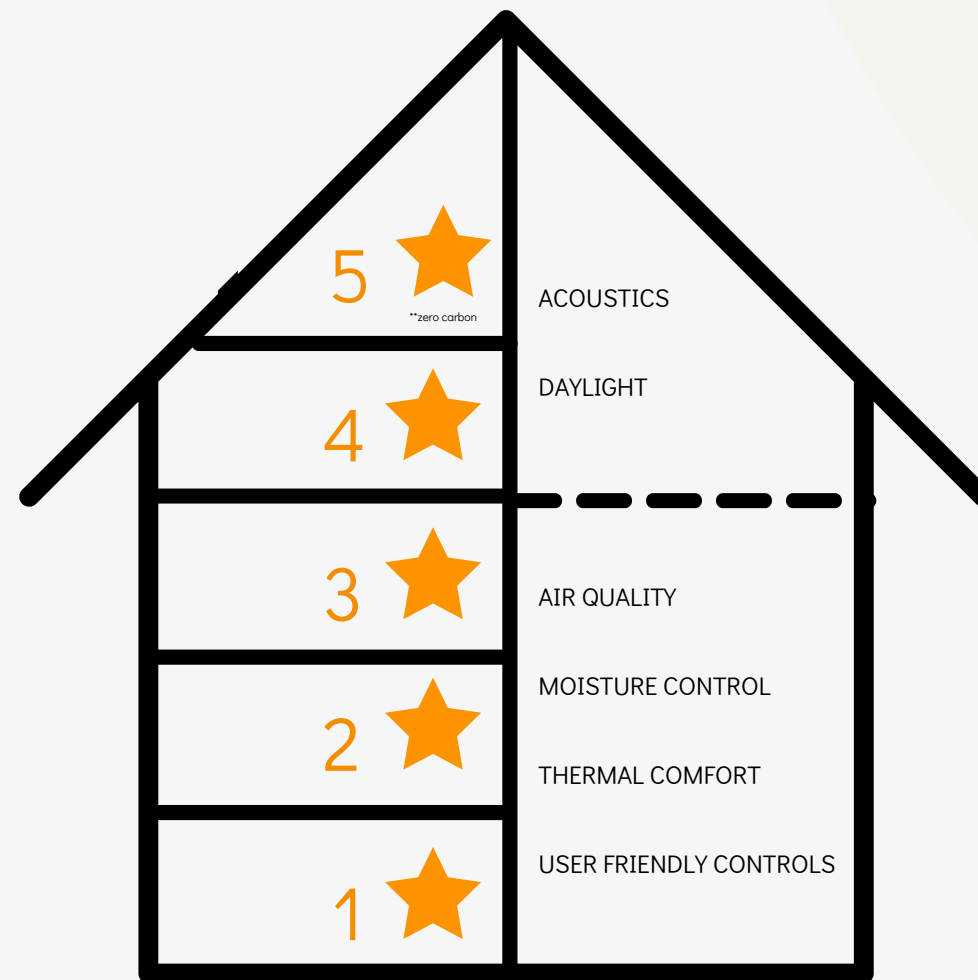
<u>Moisture Comfort</u>	Relative Humidity 40-60% ≥ 0.5 ACH or 8 litres/sec/person (≤ 7 days pa at >65% RH) (≤ 1 day pa at >75%)
-------------------------	---

<u>Indoor air quality</u> <u>CO₂ levels</u> (VOC's and selected pollutants - optional)	<1000ppm CO ₂ (<1500ppm CO ₂ time limited periods) Project-specific targets
---	---

<u>User friendly controls</u>	Design statement
-------------------------------	------------------

<u>Daylight</u> (compulsory at 4★ and 5★)	2% daylight factor for habitable rooms
--	--

<u>Acoustics</u> (optional at all levels)	'Design led' project specific targets
--	---------------------------------------



SuperHomes