



EMBODIED AND WHOLE LIFE CARBON: THEORY AND PRACTICE AT GOLDSMITH STREET

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Goldsmith Street, Norwich, 2019

RIBA Stirling Prize 2019

RIBA Neave Brown Award 2019

RIBA National/Regional Award 2019

Housing Design Award Overall Winner 2019

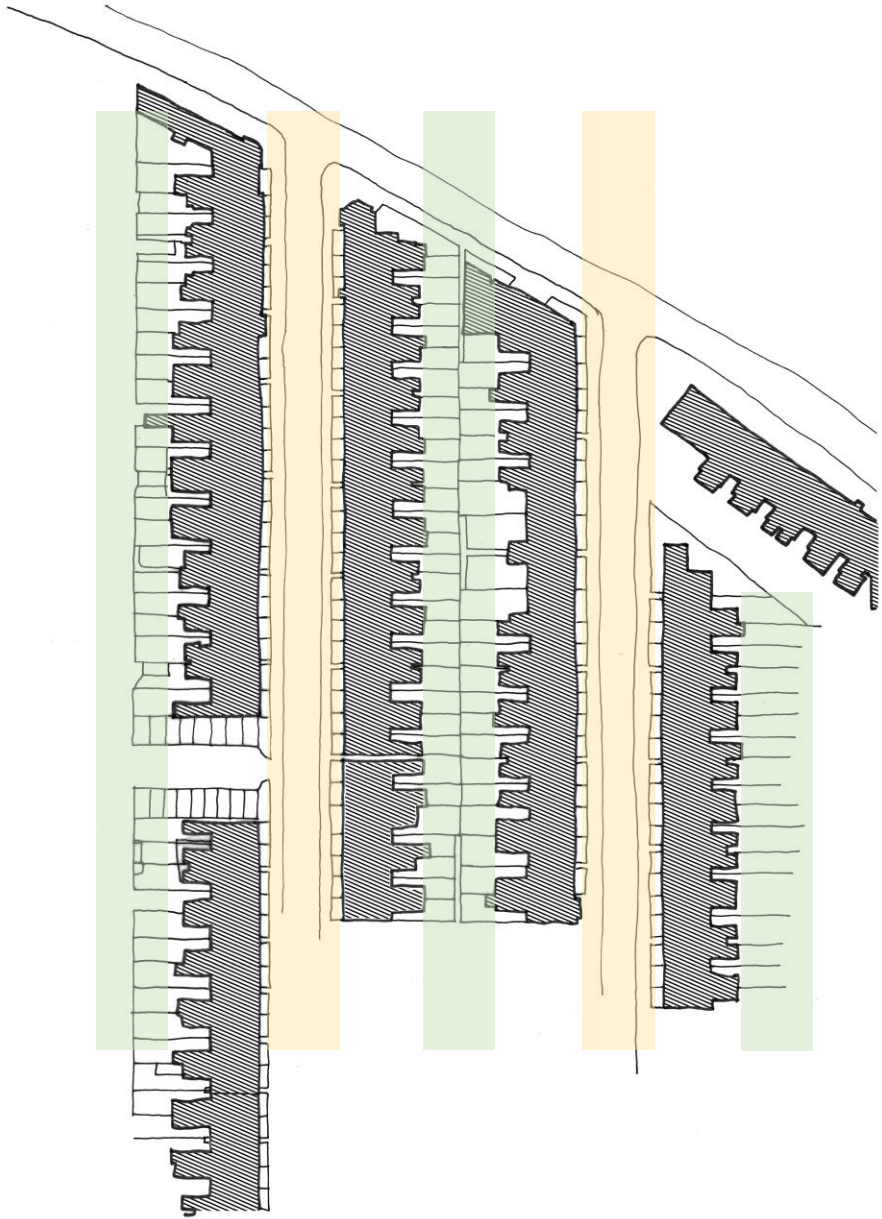
- Low energy passive solar design
- 100% Certified Passivhaus
- Low embodied carbon construction
- Local Authority Development
- Low cost, High Quality £1875/sqm



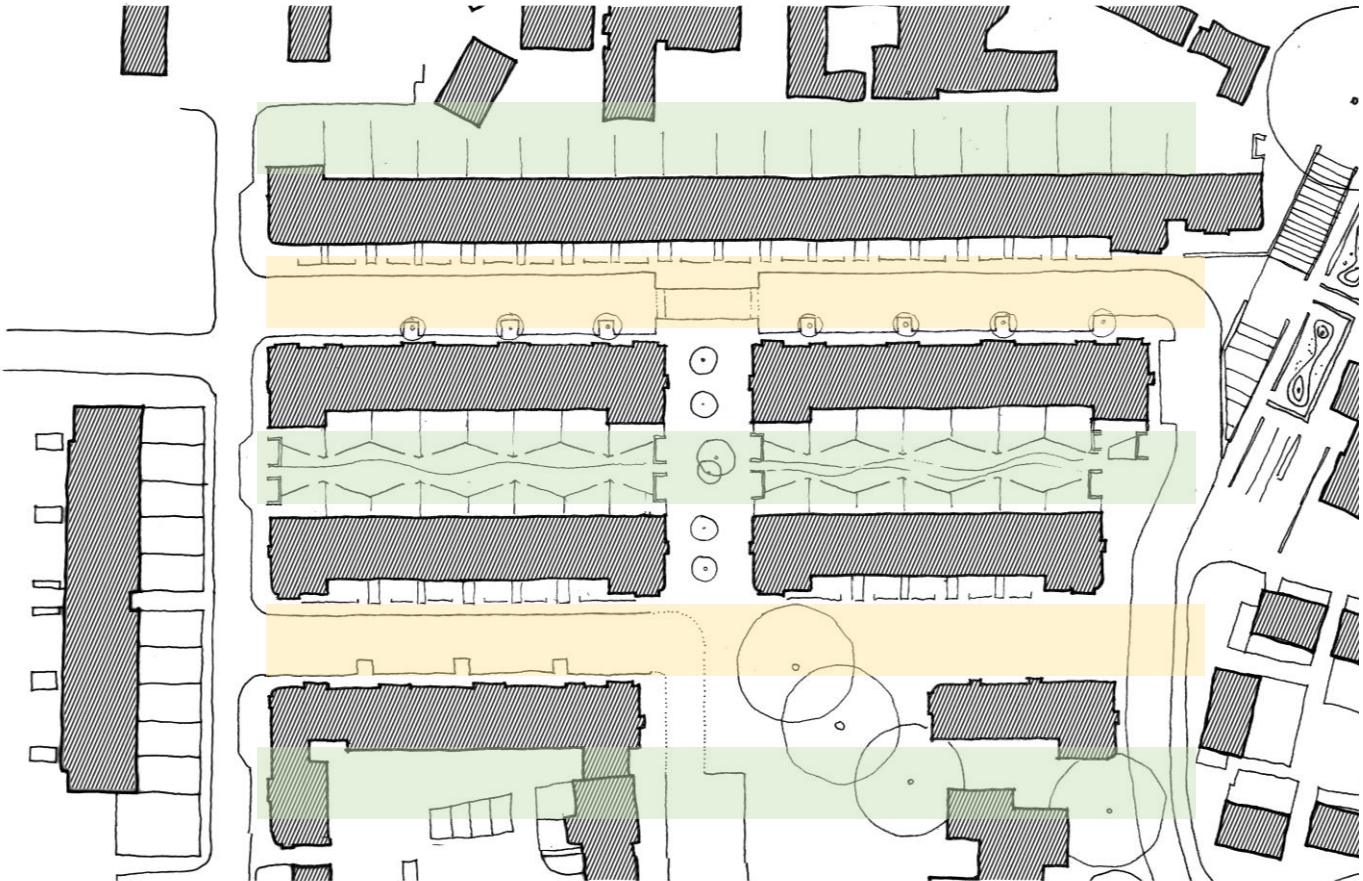
RIBA 2030 Climate Challenge target metrics for domestic buildings

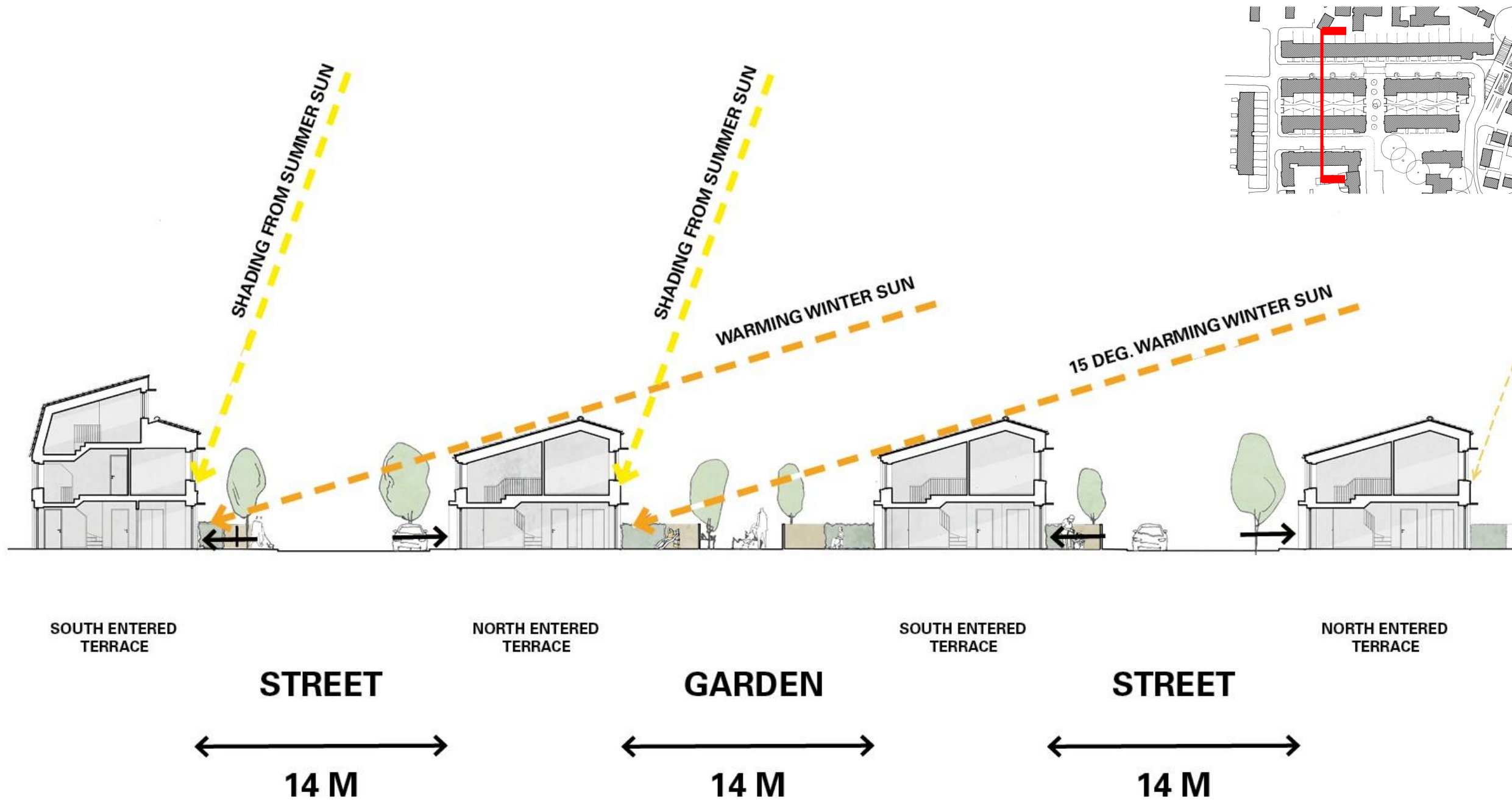
RIBA Sustainable Outcome Metrics	Current Benchmarks	2020 Targets	2025 Targets	2030 Targets
Operational Energy kWh/m ² /y 	146 kWh/m ² /y (Ofgem benchmark)	< 105 kWh/m ² /y	< 70 kWh/m ² /y	< 0 to 35 kWh/m ² /y Goldsmith Street 16 kWh/m²/y
Embodied Carbon kgCO ₂ e/m ² 	1000 kgCO ₂ e/m ² (M4i benchmark)	< 600 kgCO ₂ e/m ²	< 450 kgCO ₂ e/m ²	< 300 kgCO ₂ e/m ² Goldsmith Street 311 kgCO₂e/m²
Potable Water Use Litres/person/day 	125 l/p/day (Building Regulations England and Wales)	< 110 l/p/day Goldsmith Street 101 l/p/day	< 95 l/p/day	< 75 l/p/day

Golden Triangle



Goldsmith Street







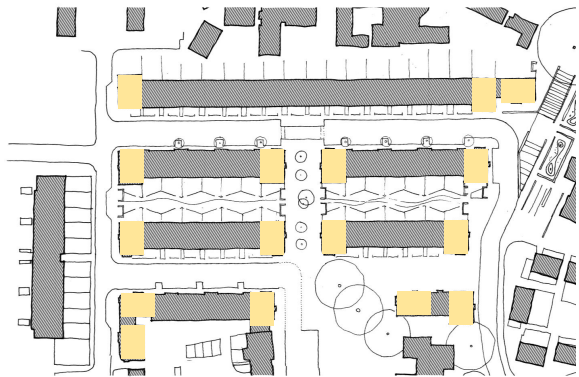


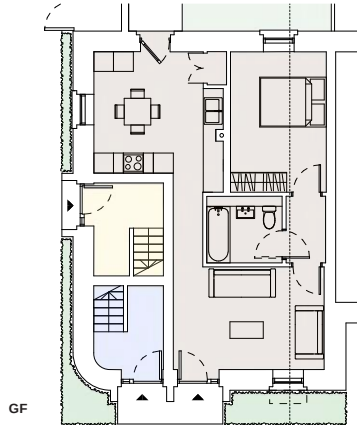
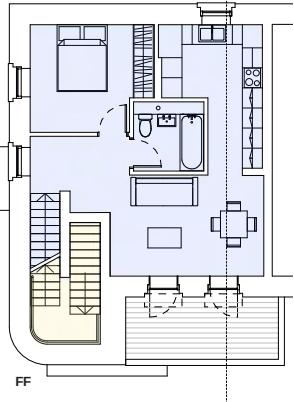
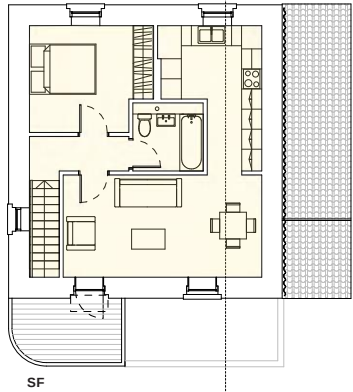


















PH Ribbon Embodied Carbon Assessment
Typical 2 bedroom terraced home at Goldsmith Street

