

Future Homes Standard Solar PV Design & Delivery

As the Future Homes Standard drives increased use of solar PV on new-build developments, it is becoming increasingly important to ensure systems not only generate the required energy output but can also physically fit within the available roof space.

Carbon3 works alongside developers, architects and design teams to deliver compliant, buildable solar PV solutions from concept through to installation.

The Carbon3 Design Process

1. Project information received provides:

- DWG drawings
- Development layouts
- Required solar PV capacity (kWp) identified through SAP/FHS calculations

2. Roof Fit Assessment

Our design team reviews every plot type to confirm:

- The proposed system physically fits on the roof
- Panel layouts are practical and aesthetically appropriate
- Space constraints are identified early

3. FHS Compliance Review

We assess whether the required kWp output can be achieved whilst maintaining a compliant, deliverable design. If challenges are identified, we work collaboratively with the client design team to explore alternative solutions.

4. System Design & Specification

Carbon3 produces a full design pack including:

- Roof fit layouts
- Energy yield calculations
- System specification

Installation quotation

5. Design Team Collaboration

Our team liaises directly with developers, architects and consultants throughout the design process to ensure the proposed solution remains buildable, cost-effective and compliant.

6. Installation & Handover

Our in-house teams deliver:

- Solar PV installation
- Testing and commissioning
- Handover documentation
- Ongoing maintenance support

What You Receive

- ✓ Roof fit confirmation
- ✓ Future Homes Standard compliance support
- ✓ Energy generation calculations
- ✓ Fully specified solar PV system
- ✓ Installation quotation
- ✓ End-to-end delivery from design to completion

Design Fees

First project design provided free of charge. Following project award, future designs for that client are also provided free of charge.

Energist SAP assessment completed



Required kWp output identified for FHS compliance



DWG drawings sent to Carbon3



Roof fit assessment completed



FHS compliance review



Design pack issued (example on next page)



Client design team review



Installation and commissioning



ABOUT US

WE OPERATE NATIONWIDE



NEW BUILD CAPABILITY SUMMARY

2,500+

Total plots
decarbonised

200+

Blocks of flats
decarbonised

8,000+

Total kWp of solar
installed across new
build plots and blocks

1,700+

Tonnes of CO2
saved annually



Unit 9, Invicta Business Park,
London Road, Wrotham, TN15 7RJ



Unit 18, The Alders, Mereworth,
Maidstone ME18 5JG



Unit 15, Mica Close, Darwell Park,
Tamworth, B77 4DR



50+ years of experience in the new
build industry



In house aftercare/O&M team separate
to installation team for fast call outs



In house design team that can work to
SAP scores that actually fit on roofs



Multi-technology discounts - including
EV chargers, battery storage, and ASHPs