Using DFMA to deliver net-zero carbon

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Why Design for Manufacturing Assembly

- DFMA is different
- Procurement approach needs to be different
- Engage with supplier early preferably at stage 1 or 2 of the RIBA Plan of Work
- Be familiar with the constraints of each MMC system
- More than one solution may be needed for a particular site
- Standardised modules but can still achieve architecturally significant homes



Our Approach

- Volumetric units with maximum finishing
- Warmth and Comfort
- Fabric first to minimise losses
- Optimal levels of insulation
- Standardisation of products
- Focus on affordable housing but adaptable to other tenures
- Can achieve zero carbon/net generation



Challenge

- 300,000 homes needed
- Raise quality of housing
- Fuel poverty escalating
- Rising energy costs
- Material costs rising
- Skills crisis in the building industry
- Move away from fossil fuels



BIM Ready

- Accuracy and a common flow of information
- Part of asset management strategy
- Lifecycle of building elements
- Will lead to more automation
- DfMA ready



Our design

- Meets Building Regulations TGD L now
- Meet minimum space standards
- Suite of designs from 1 bed 1 person through to family homes
- Excellent acoustic insulation using Rockwool
- Heat pump ready
- Renewables ready with option for energy management platform for trading surplus energy and billing tenants
- Building Regulations TGD M Access and Use ready as standard
- Can arrive on site with Class A1 cladding in a wide range of finishes













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