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Description

OKO House is the first mass customisable home to embrace passivehaus technology. Meaning, they are ultra-low energy buildings that require little energy for space heating or cooling. By nature of passive heating the house is provided with continually filtered fresh air creating a clean and healthy internal environment. Any energy required is achieved by using renewable energy systems integratrated into the house. The homes are100% carbon neutral and will meet the new environmental legislation, UK Code for Sustainable Homes Level 6.

The home is a flexible design formed from reconfigurable modules that can be arranged as houses or flats. The module is formed from highly insulated timber panels and windows, built on a production line within a controlled environment producing quality workmanship. The home is built from non toxic materials that nurture the internal and external environment. The module can accept many cladding systems enabling the home to reflect the location in which it resides.

The scale of house production required to meet current demand is immense. The European housing industry is not set up to meet this demand. okohouse is the first production line home to meet the new green legislation and is the only building shell able to be adapted, both inside and out, to meet living and location requirements. okohouse will deliver an extremely high quality affordable home to market benefiting both the housing developer and the home owner.

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OKO House is able to incorporate many variations of home design by specific orientation of the modules. For specific requirements the production line is also able to incorporate module variations.

Depending on the geometry of the core, the houses can be built with a rectangular or with a slightly angular plan. When constructed as terraced houses in neighbourhoods this allows the traditional configuration in rows, but it also allows the construction of offset alignments. The entrances are preferably placed at the core but can also be accommodated on the short sides of the houses.

Street layouts in developments have many new possibilities of creating row houses, corner situations, sheltered garden areas, dead ends and an interesting urban fabric. The non-rectalinear arrangements allow for an endless amount of possibilities to create beautiful and social urban places.

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Illustrations

1/ OKO House components

2/ OKOhouse Passive House certification

3/ OKO House community

4/ Interior views

5/ Typical street section

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Illustrations

6/ OKO House community

7/ Exploded perspective illustrating house components

8/ Cut-away section showing the house servicing strategy

9/ Sectional variations