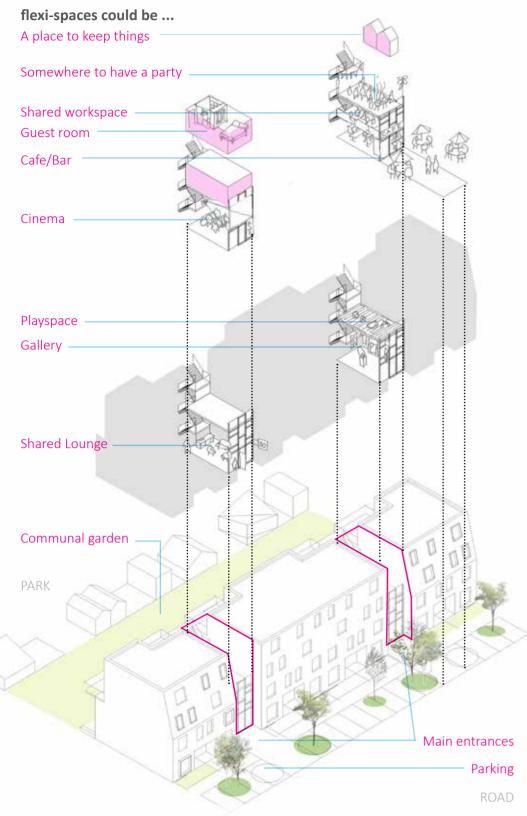
## FLEX/-FLATS **SELF-BUILD ON A SHOESTRING IN THE CITY**

Our proposals for a new collective housing community in the city aim to illustrate how new homes can be delivered for low budgets using simple construction techniques and sustainable design.

- Passive solar design with large glazed openings to the south and smaller windows to the north • Using up-cycled materials in construction to give a unique quality to the buildings
- High levels of insulation to achieve good thermal performance
- Repeating units & standard components to avoid crossing party walls and complex junctions Regular structural grid which keeps construction and layouts simple
- A varied streetscape which respects local context and enlivens the neighbourhood

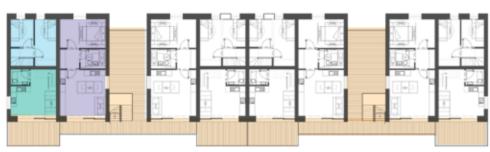
• Access to private and shared gardens, balconies and terraces

The scheme is formed of four, 4-storey blocks which are interspersed with two double height 'flexi-spaces' with garden decks above. As well forming a shared entrance to the upper level dwellings, these spaces act as slack in the plan allowing for the future introduction of a variety of uses to support a growing community.

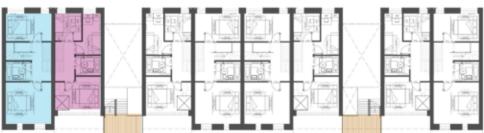




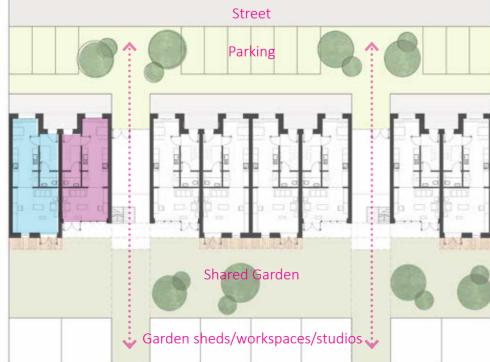
Third Floor Plan



Second Floor Plan



First Floor Plan



Ground Floor Plan

Key

4 bed, 6 person house 3 bed, 4 person house

2 bed, 3 or 4 person duplex

Park

2 bed, 2 person flat

1 bed, 1 person studio Amenity/balconies







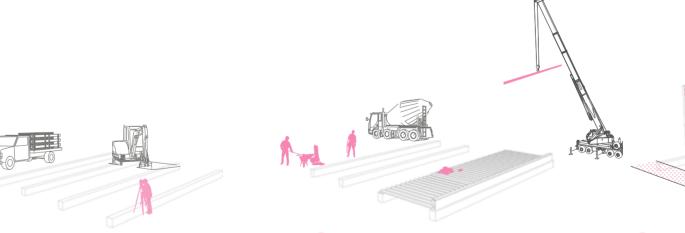
Something for nothing? External cladding is constructed using re-purposed waste from the city formed into shingle tiles. Examples could include: Milk Bottles, plastic bags, tetra packs, timber, plastic drinks bottles ....



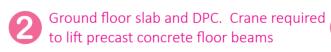
The UK uses over 5 million tonnes of plastic each year of which only 24% is currently being recovered or recycled.



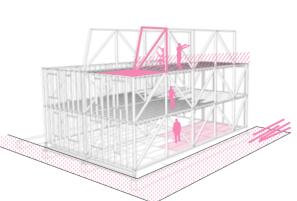




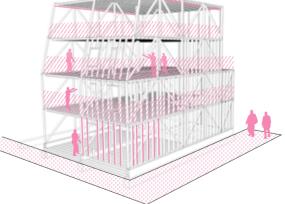
Site setup, Foundations and groundworks. Construction of site welfare and offices



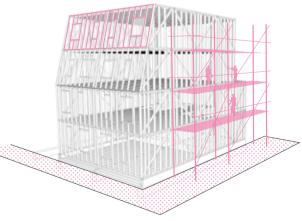




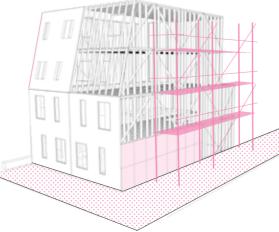
Floors laid using timber I beams, frames bolted together and braced internally

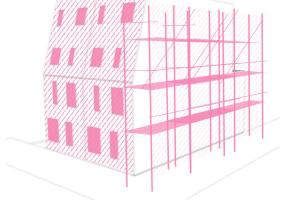


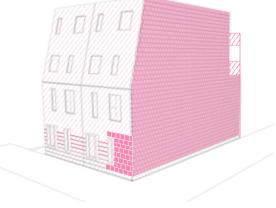
Topping out of main structure. Secondary timber structure completes walls



Roof and window openings constructed, scaffold erected for lining out externally







Sheathing boards +insulation fixed externally. Extra insulation added to walls from inside

Weather-tight layer completed with breather membrane and window fitting



## FLEX/-FLATS SELF-BUILD ON A SHOESTRING IN THE CITY



**Cost Summary** 

Works Package	Construction Element	Materials	Labour	Total
For Works Packages 1-18 please provide figures for the total construction cost of <b>just</b> the 20 <b>homes</b> provided in your design				
Works Package 1	Set up, Clearance, Demolitions	£ 6,588.00	£ -	£ 6,588.00
Works Package 2	Foundations (up to DPC)	£ 50,599.04	£ -	£ 50,599.04
Works Package 3	Ground Floor Slab or Suspended Floor (including insulation)	£ 31,985.96	£ -	£ 31,985.96
Works Package 4	Drainage & Service Trenchwork	£ 42,000.00	£ -	£ 42,000.00
Works Package 5	Specialist Building System (eg timber frame, SIPs, etc if applicable)	£ 26,670.40	£ -	£ 26,670.40
Works Package 6	External & Internal Walls (including insulation)	£110,363.78	£ -	£ 110,363.78
Works Package 7	Intermediate Floor Zone (if applicable)	£ 33,248.29	£ -	£ 33,248.29
Works Package 8	Fireplace & Chimney (if applicable)		£ -	1
Works Package 9	Roof Structure, Insulation & Covering	£ 55,264.24	£ -	£ 55,264.24
Works Package 10	Joinery (Windows, doors, stairs, skirtings)	£111,867.74	£ -	£ 111,867.74
Works Package 11	Specialist Products (eg; Eco products)		£ -	1
Works Package 12	Electrical Installation	£14,400.00	£ -	£ 14,400.00
Works Package 13	Plumbing Installation	£ 60,494.36	£ -	£ 60,494.36
Works Package 14	Heating Installation	£130,520.00	£ -	£ 130,520.00
Works Package 15	Plastering (or dry-lining)	£ 22,892.40	£ -	£ 22,892.40
Works Package 16	Kitchen and Utility Units (+ appliances)	£ 28,915.00	£ -	£ 28,915.00
Works Package 17	Decorations & Wall Ceramics	£ 85,000.00	£ -	£ 85,000.00
Works Package 18	Floor Finishes	£ 34,262.08	£ -	£ 34,262.08
	TOTAL	£845,071.29	£ -	£ 845,071.29
For Works Packages 19	and 20 provide figures for the <b>additional communal facilities</b> required to sug	oport the 20 home	e.s	
Works Package 19	Road connection, parking, paths, cycle facilities, street lighting, bin areas, landscaping	385,500.00		£ 385,500.00
Works Package 20	Communal areas/access to homes - eg stairways, halls, lobbies, lifts (if required), storage	85,380.00	£ -	£ 85,380.00
	TOTAL	470,880.00	£ -	£ 470,880.00
	GRAND TOTALS	1,315,951.29	£ 184,048.71	£ 1,500,000.00