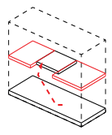
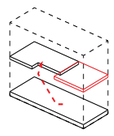
AXONOMETRIC DRAWING OF THE BASIS THREE-PERSONS HOUSE

TYPOLOGICAL COMBINATION

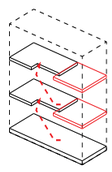
SINGLE PEOPLE HOUSE
47.5 M² ‖ 28.7 M²



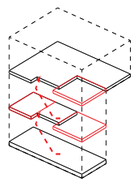
TWO PERSONS HOUSE
62.6 M² ‖ 16.3 M²



THREE PERSONS HOUSE
84.1 M² ‖ 32.6 M²

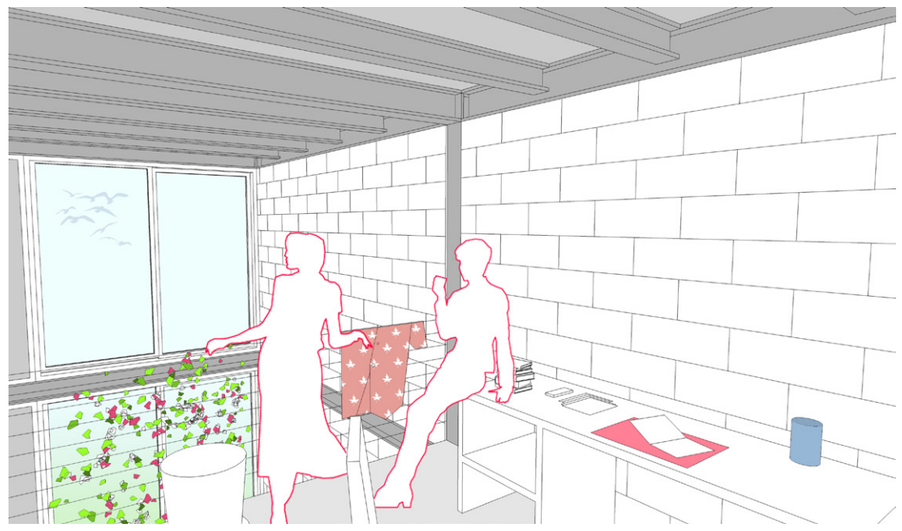


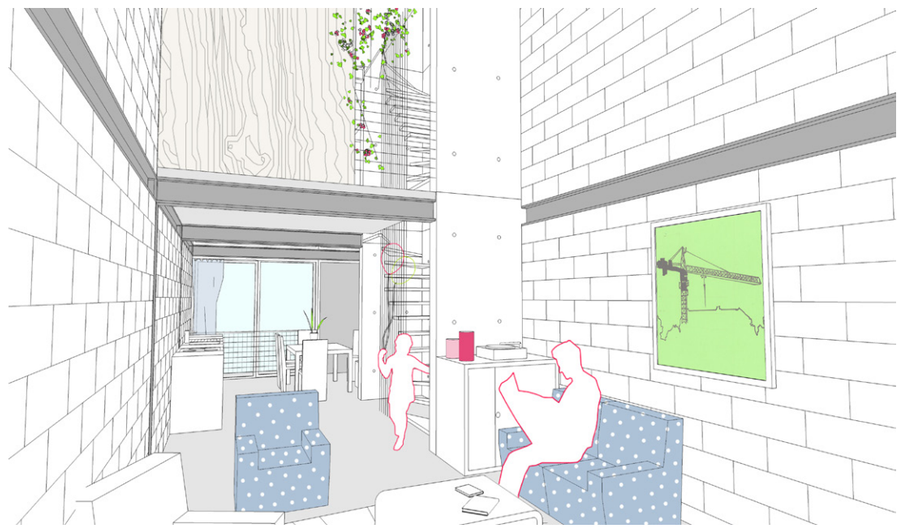
FOUR PERSONS HOUSE
112.8 M² ‖ 45.1 M²



FIVE PERSONS HOUSE
125.1 M² ‖ 32.6 M²

VIEWS : COMMON SPACE ‖ MEZZANINE ‖ LOUNGE





PARKING 6 CAR PLACES ‖ COMMON STAIRCASES ‖ BIKE PARK ‖ BIN STORAGE ‖ GARDENING TOOLS STORAGE

COMMON VEGETABLE GARDEN

COMMON FREE SPACE ‖ KITCHEN ‖ GAS HEATING INSTALLATION

HOUSING STRUCTURE : STEEL FRAME & CONCRETE PREFABRICATED CORES ‖ EXTERIOR FILLING WALLS : SANDWICH PANELS AND GLASS ‖ INTERIOR SEPARATIVE WALLS : CONCRETE BLOCS

BASEMENT OF COMMON SPACES : CONCRETE STRUCTURE

SITE OCCUPATION

A GROUP OF ENGLISH FRIENDS, TIRED OF THE ASTRONOMICAL COST OF THE URBAN LIFE, BUT WILLING TO STAY IN THE CITY, DISCUSS ABOUT NEW SOLUTIONS. ‘WHAT IF WE ALL SELL OUR APARTMENTS AND BUY A BIG HOUSE TOGETHER ?’ ■ DISCUSSING THIS, THEY REALISE IT ISN’T ONLY ABOUT SHARING CAPITAL, BUT ALSO EXPERIENCES AND SKILLS THE CHOICE IS MADE OF ADOPTING A COOPERATIVE STATUS, ALLOWING THE GROUP TO DEVELOP A LEGAL FRAME, IN THE FORM OF A CHARTER ■ A LARGE COMMON ROOM WHERE IT IS POSSIBLE TO MEET, WELCOME OUTER PEOPLE AND ORGANISE SOME PUBLIC EVENTS, A COMMON LAUNDRY AND A VEGETABLE GARDEN. THE IDEAS COME FROM ALL SIDES... ■ THE SPACES HAVE TO BE ADAPTABLE, THEY MUST PERMIT A PANEL OF POTENTIAL USES WITH THE AIM OF INCREASING THE DURABILITY OF THE PROJECT IN TIME ■ THE CONSTRUCTIVE CHOICE IS MADE FOR A COMMON STEEL PREFABRICATED FRAMEWORK, CHEAPER THAN INDIVIDUAL STRUCTURES, DIVIDED IN TWENTY COMBINED SPANS WHICH FORM ‘CAPABLE VOLUMES’ FOR EACH HOUSEHOLD. EACH VOLUME PROVIDES THE NECESSARY BASIS FOR THE HOUSEHOLD LIVING IN, NO MORE, NO LESS, AND THE REMAINING VOIDS ENABLE SOME FUTURE EXTENSIONS ■ THE INHABITANTS TAKE PART IN THE WORK. THEY ERECT THE SEPARATIVE WALLS MADE OF CONCRETE BLOCKS, THE WOODEN PARTITION WALLS, THEY INSTALL THE INSULATION OF THE COMMON SPACES... ■ SO IS THE STRUCTURE FILLED ALONG THE TIME, THE INHABITANTS, LIKE A SHELF IS FILLED WITH THINGS YOU ACCUMULATE, THINGS THAT FOLLOW YOU DURING YOUR ENTIRE LIFE ■ ‘IT’S OUR FUTURE EXPERIENCE THAT WE HAVE TO BRING TO THE PRESENT’ ■

SHELF■BUILD■

01 ‖ CLEARANCE	‖ STRIPPING OF THE CONSTRUCTED AREA : 850 M^2X 2.36 £/M^2 = **2006 £**
02 ‖ FOUNDATIONS	‖ DIGS = **4616 £** ‖ CONCRETE PLOTS FOR POSTS 88 U X 345.89 £/U = **30438 £** ‖ BASEMENT FOR LONGITUDINAL SLEEPERS 548 LM X U X 21.36 £/LM = **11707 £** ‖ ANTI-TERMITES MEMBRANE = 3.93 £/M2 X 850 M2 = **3 345 £** **TOTAL 50 106 £**
03 ‖ GROUND FLOOR SLAB & SUSPENDED FLOOR	‖ INSULATION OF THE GROUND FLOOR SLAB (ONLY FOR THE HOUSES) 11.15 £/M2 X 450 M2 = **5 018 £** ‖ CONCRETE GROUND FLOOR SLAB (FOR HOUSES ONLY) 33.96 £/M2 X 450 M2 =**15 282 £** ‖ SLAB ON GIRDERS AND HOURDIS 54.35 £/M2 X 424 M2 = **23 046 £** ‖ REINFORCED CONCRETE BALCONIES 125.43 £/M2 X 130 = **16 306 £** ‖ COLLABORATIVE METAL-FORM SLAB 54.35 £/M2 X 822 M2 = **44 679 £** **TOTAL 104 323 £**
04 ‖ DRAINAGE & SERVICE TRENCHWORK	DRAINAGE AND SERVICE TRENCHWORK =**18 065 £**
05 ‖ SPECIALIST BUILDING SYSTEM	‖ STEEL FRAME CONSTRUCTION (FOR A STRUCTURE WITH LITTLE RANGE BEAMS, 3.10 M AND 4.3 M, EXPECTED FOR A MAXIMAL SURFACE OF 2550 M2, INCLUDING THE ROOF SURFACE) 91.82 £/M2 X 2550 = **234 142 £**
06 ‖ EXTERNAL AND INTERNAL WALLS	‖ PREFABRICATED REINFORCED CONCRETE CORES, FOR THE BRACING OF THE METAL STRUCTURE AND AS INTERIOR STAIRCASES 91.98 £/M2 X 627 M2 = **57 674 £** II SEPARATIVE NON LOAD BEARING-WALLS MADE BY CONCRETE BLOCS OF 15 CM THICKNESS (JUST THE COST OF THE MATERIALS) 23.45 £/M2 X 990 M2 = **23 222 £** **TOTAL = 80 896 £**

07 ‖ INTERMEDIATE FLOOR ZONE	NO WORKS IN THIS PACKAGE
08 ‖ FIRE PLACE & CHIMNEY	NO WORKS IN THIS PACKAGE
09 ‖ ROOF STRUCTURE, INSULATION & COVERING	‖ SANDWICH PANELS 100 MM SUPPORTED BY THE STEEL STRUCTURE 83.62 £/M2 X 850 = **71 079 £** ‖ ZINC-COATED DRIP PROFILE 181.46 £/LM X 80 LM = **14517 £** ‖ ZINC-COATED RAINWATER DOWNPIPES 43.47 £/LM X 75.6 LM = **3 287 £** II SUPPLEMENTARY INTERIOR ROOF INSULATION 100 MM (JUST THE COST OF THE MATERIALS) 7 £/M2 X 830 M2 =5810 £ **TOTAL = 94 637 £**
10 ‖ JOINERY	‖ EXTERIOR ALUMINIUM WINDOWS **= 210 000 £** ‖ EXTERIOR METAL RAILING 192 £/LM X 86 LM = **16 512 £** ‖ INTERIOR CÂBLE METAL RAILING 42 £/LM X 226 LM= **9 492 £** ‖ METAL STAIRS = 42 U X 1254£/U = **52 658 £** ‖ INTERIOR BASIC WOODEN DOOR 0.90 X 2.40 M (JUST THE COST OF THE MATERIALS) 167 £/U X 120 U = **20 040 £** **TOTAL = 308 702 £**
11 ‖ SPECIALIST PRODUCTS	‖ SANDWICH PANEL FOR EXTERIOR WALLS 200 MM 135 £/M2 X 619 M2 = **83 565 £**
12 ‖ ELECTRICAL INSTALLATION	‖ ELECTRICAL COMMON INSTALLATION (COMMON INTERIOR SPACES AND EXTERIOR ENLIGHTMENT) = **15 552 £** ‖ ELECTRICAL INDIVIDUAL INSTALLATIONS 5435 £/HOUSE X 20 HOUSE =**108 700 £** **TOTAL = 124 252 £**
13 ‖ PLUMBING INSTALLATION	‖ PLUMBING COMMON INSTALLATION = **10 035 £** ‖ PLUMBING INDIVIDUAL INSTALLATIONS 5435 £/HOUSE X 20 HOUSE =**108 700 £** **TOTAL = 118 735 £**

14 ‖ HEATING INSTALLATION	‖ GAS BOILER (SANITARY WARM WATER AND HEATING) + COMMON STOCKAGE BALLOON = **20 906 £** ‖ PRIMARY DISTRIBUTION PIPES 8.36 £/LM X 900 LM X 2 = **7 524 £** ‖ RADIATOR UNDERFLOOR HEATING 42 £/LM X 1580 M2 = **66 360 £** **TOTAL = 94 790 £**
15 ‖ PLASTERING	‖ PINE WOODEN PARTITIONS WALLS WITH ACOUSTIC INSULATION COVERED BY PLYWOOD (JUST THE COST OF THE MATERIALS) 20 £/M2 X 609 M2 = **12 180 £** II PLYWOOD DUCTS SHUTTERINGS WITH PINE TIMBER FRAME (JUST THE COST OF THE MATERIALS) 151 £/U X 30 U = **4 530 £** ‖ PLYWOOD FALSE CEILING, COVERING THE COMPLEMENTARY INDOOR INSULATION OF THE ROOF (JUST THE COST OF THE MATERIALS) 20 £ /M2 X 830 M2 = **16 600 £** **TOTAL = 33 310 £**
16 ‖ KITCHEN & UTILITY UNITS	‖ EQUIPED KITCHEN (JUST THE PRICE OF THE FURNITURES) 1672 £/U X 20 U = **33 440 £** ‖ WC 376 £/U X 28 U = **7 728 £** ‖ BATHTUB 753 £/U X 28 = **21 084 £** ‖ WASH BASSIN 301 £/U X 28 U = **8 428 £**
17 ‖ DECORATION & WALLS CERAMICS	‖ WALL CERAMICS COVERED THE INTERIOR WALLS OF THE BATHROOM AND THE KITCHEN'S SPLASHBACKS (JUST THE PRICE OF THE MATERIALS) 13 £/M2 X 300 M2 = **3 600 £**
18 ‖ FLOOR FINISHES	NO WORKS IN THIS PACKAGE - THE VISIBILE CONCRETE TOPPING WILL BE WELL-REALISED

19 ‖ ROAD CONNECTION, PARKING, PATHS CYCLE FACILITES	‖ PAVING ON THE PEDESTRIAN PATHS 67 £/M2 X 207 M2 = **13 869 £** ‖ STABILIZED SOIL = ACCES FOR CAR PARK AND PATHS IN THE GARDEN 42 £/M2 X 201 M2 = **8 442 £** ‖ METAL FENCES 92 £/LM X 39 LM = **3 588 £** ‖ METAL ENTRANCE GATE FOR VEHICLES 3.2 M WIDTH 2090 £/U X 2 U = **4180 £** ‖ METAL PEDESTRIAN ENTRANCE GATE **= 1255 £** ‖ CYCLE FACILITIES (FOR ABOUT 40 CYCLES) (JUST THE COST OF THE MATERIALS) **= 600 £** **TOTAL = 31 934 £**
20 ‖ COMMUNAL AREAS	‖ REINFORCED CONCRETE POSTS 2.7 M HIGHT FOR THE CAR PARK AND THE COMMON HALL 120 £/LM X 2.7 LM X 48 U = **15 552 £** ‖ REINFORCED CONCRETE BEAMS 134 £/LM X 250 LM = **33 500 £** ‖ INSULATION ON THE CEILING SLAB OF THE CAR PARK + PLYWOOD PAREMENT (JUST THE COST OF THE MATERIALS) 21 £/M2 X 424 M2 = **8 904 £** ‖ INDOOR INSULATION OF THE STRUCTURE OF THE COMMOM HALL 140 MM + PLYWOOD PAREMENT (THE JOINERY IS ALREADY EVALUATED IN THE PACKAGE «JOINERY» AND «SPECIAL PRODUCT) (JUST THE COST OF THE MATERIALS) 21 £/M2 X 27 M2 = **567 £** **TOTAL 58 523 £**

TOTAL	**1496 066 £**
COST PER HOUSE	**74 803 £**