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AR-041 Reconfigurable features
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4. INTERIORS (IN)

5. STRUCTURAL (ST)
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6. FIRE PROTECTION (FP)

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8. SOLAR WATER HEATING (SW)
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ME-021 Heating
ME-031 Cooling
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*liv-lib’ Team Paris*
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- PV-001 Photovoltaic system : general
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<th>SOLAR DECATHLON EUROPE 2014</th>
<th>LOCALIZATION</th>
<th>COMPONENT</th>
<th>DESCRIPTION</th>
<th>DRAWING NUMBER</th>
<th>MODEL HANDSCALE</th>
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<td>General Urban Proposal Explanation</td>
<td>GE-310</td>
<td>liv-lib' Team Paris</td>
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**Urban Proposal Explanation**

- Collective Housing
- Social Mixity
- Exchange Pole
- Community
- Centralized Services
- Mixed Program
- Diversified Activities
- Mobility
  - Electric Semi-Public Transportation
  - Auto Lib Velib Extension
  - Connecting Grand Paris Isolated Areas
- Decrease Individual Car Usage

**GENERAL**

- Easy to Move
- Stackable
- Affordable Price

- Flexibility
- Modularity

- Capsules
- Plug
- HIJIB

**INK RESIDUAL AREAS**

- Plug
- Connected

**MOBILITY**

- Electric Semi-Public Transportation
- Auto Lib Velib Extension
- Connecting Grand Paris Isolated Areas
- Decrease Individual Car Usage
Urban proposal
Capsules oriented towards north and east
South facade used for energy production
Ground floor kept free for urban life
«Hub» interior space used for common spaces and vertical circulation

Extract from the urban proposal
Capsules oriented towards north and east

Reduction of the prototype to one floor

Veransille's proposal
Photovoltaic panels added to the «Hub» structure
Optimization of the panels orientation and shape to maximize the energy production

Hub» walls adapted to fit the solar envelope and to accommodate the photovoltaic panels
«Hub» interior space left free for common space, relaxing area and circulation

Reduction of the tele-working capsule to a proper size
Change in the height of the capsules to fit the solar envelope
Ground floor under the tele-working capsule kept free for public space
Exteriors Renderings

GENERAL

DESCRIPTION

DRAWING NUMBER

GE-401

SOLAR DECATHLON EUROPE 2014

27 OCTOBER 2014

DOCUMENTATION

DIN7 - AS BUILT

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Exteriors Renderings

GENERAL

DESCRIPTION

Exteriors Renderings

DRAWING NUMBER

GE-403

SCALE

1

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Roof Plan

ARCHITECTURAL

DESCRIPTION

Roof Plan

DRAWING NUMBER

AR-031

DRAWING SCALE

1:100
Site North Elevations

ARCHITECTURAL

DESCRIPTION

Site North Elevations

DRAWING NUMBER
AR-102

SIGNED AND SCALE
1:100

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27 OCTOBER 2014
D#7 - AS BUILT DOCUMENTATION
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<td>Building South East Elevation</td>
<td>AR-113</td>
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Window Schedule and details

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<td>Overall Thermal Transmittance (Uw)</td>
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Drawing Number: AR-302

1:50

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Team Paris
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

DESCRIPTION

AR-304

NOTES:
- Module: AR-304/1212
- Intermediate module: T94.068/70X
- Panel thickness:
  - Cell: 6 mm
  - Frame: 18 mm
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

DESCRIPTION

Window Schedule Canopy in photovoltaic panels

DRAWING NUMBER

AR-305

SCALE

1:1

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Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

DESCRIPTION

Window Schedule Canopy in photovoltaic panels

DRAWING NUMBER

AR-306

SCALE
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

AR-307
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

AR-308
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

DESCRIPTION

Window Schedule Canopy in photovoltaic panels

DRAWING NUMBER

AR-309
Window Schedule Canopy in photovoltaic panels

ARCHITECTURAL

DESCRIPTION

Window Schedule Canopy in photovoltaic panels

DRAWING NUMBER

AR-310

SCALE 1:1
### Roof Constructions Details

#### Legend
- 1-088 1.5 CM
- 2-Wooden Battens 10 CM
- 3-Wooden Battens 40 CM
- 4-Stone Wool ROCKPLUS 13 AND 20 CM
- 5-Anticondensation sheet
- 6-Thermal Roof Insulation
- 7-Zintec Plate Bel.A030.01
- 8-Gypsum Ceiling 1.5 CM
- 9-Water Control Layer
- 10-Wooden Slat 2 CM
- 11-Siding 1 CM
- 12-Acoustic Insulation 3 CM
- 13-Parquet 1.6 CM
- 14 Plaster Board 1.5 CM

#### Table: Thermal Conductivity Coefficients

<table>
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<th>Thickness (cm)</th>
<th>Thermal conductivity coefficient (W/m²K)</th>
<th>Tot U (W/m²K)</th>
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<td>e5 0.3 Asb</td>
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### Calculation of the thermal transmission coefficient U (W/m²K) Ceiling

\[
U_{\text{Ceiling}} = 0.0778
\]

(We do not take into account the layers which do not give a thermal resistance)
Legend
1-068 1.8 CM
2-wooden Battens 10 CM
3-wooden Battens 40 CM
4-stone wool ROCKPLUS 13 and 20 CM
5-anti-condensation sheet.
6-thermal roof insulation
7-Zintec plate BEL 1200/401
8-gypsum ceiling 1.5 CM
9-water control layer.
10-wooden slat 2 CM
11-siding 1st.
12-acoustic insulation 30 CM
13-parquet 1.6 CM
14-plaster board 1.5 CM
15-wooden slat 2.008 CM.

Wall Sections and Constructions Details

Architecture
AR-341

Component

Description
Wall Sections and Constructions Details

Drawing Number
AR-341

Diagram Scale

Calculation of the thermal transmission coefficient U (W/m²K) Wall

<table>
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<th>Thickness (m)</th>
<th>Thermal conductivity coefficient (W/m²K)</th>
<th>Total U (W/m²K)</th>
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<td>e1</td>
<td>0.015 Wood</td>
<td>0.22</td>
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<td>e4</td>
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<tr>
<td>e5</td>
<td>0.015 Rock wool ROCKPLUS MU</td>
<td>0.033</td>
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</table>

(We do not take into account the layers which do not give a thermal resistance)
Legend:
1. OSB 1.5 CM
2. Acoustic Insulation 10 CM
3. Wooden Battens 10 CM

Partition of the Shower Room
Local Climate Analysis

BIOCLIMATIC ANALYSIS

COMPONENT

DESCRIPTION

Local Climate Analysis

DRAWING NUMBER

BA-001

INDEX AND SCALE

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Bioclimatic drawings

**BA-011**
Floor Working Space and configurations

WORKING SPACE

IN-004

1:50
Reflected ceiling

IN-101

1:50
Showeroom plan

Component

INTERIORS

Description

Showeroom plan

Drawing Number

IN-501

Scale

1:20
Bathroom Elevations

INTERIORS IN-511 1:20

[Diagram of bathroom elevations with labeled components]
Interior Renderings
Living Space
INTERIORS

LOCALIZATION

DESCRIPTION
Interior Renderings
Living Space

DRAWING NUMBER
IN-605

SCALE: 1:7

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Scaffolding Structural Plan

ST-002

1:100
Structural Longitudinal sections

DRAWING NUMBER
ST-103

SCALE: 1:50

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Capsule Structural Plan of assembly Working Space

LOCALIZATION

STRUCTURAL

ST-114
Capsule Structural Transversal Section of assembly Working Space

ST-115
1. Zincic sheet
2. Rockwool 85 mm
3. Wood cladding
4. Insulation Rockwool Nu 200 mm
5. Wood beam 80x200 mm
6. OSB 15 mm
7. Insulation Rockwool Nu 60 mm
8. Aluminium gutter
9. Wood beam 80x100 mm
10. Insulation Rockwool Nu 100 mm
11. Wood beam 200x80 mm
12. Rain screen
13. Insulation Rockwool Nu 120 mm
14. Horizontal battens
15. Vapor barrier intalls RockFoil
16. Internal plaster
17. Parquet
18. Acoustic resilient Phatex 30 mm
19. Beam RHS 280x180x8.8 mm
20. Insulation Rockwool Nu 65 mm
21. C100x80 mm (brace)
22. CHS 114.3x6 mm
Structural details - Steel Plates

ST-304
Structural details - Beam reinforcement

ST-305
Structural details -
1  Thermal solar panels
2  Water tank
3  Boiler
4  Sink
5  Tap
6  Toilet

SOLAR WATER HEATING

Isometric

DIAGRAM NUMBER: SW-101

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Mechanical rooms elevations

MECHANICAL

DESCRIPTION
Mechanical rooms elevations

DRAWING NUMBER
ME-001-101-102
HVAC Equipment

MECHANICAL

DESCRIPTION

ME-011

118
HVAC Equipment

MECHANICAL

DESCRIPTION

ME-012

DIMENSIONS OF THE APPARATUS (VERTICAL)

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MECHANICAL

DESCRIPTION

Heating

DRAWING NUMBER

ME-021-022

SCALE

1:50

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Team Paris
Ventilation Plan
Living space

MECHANICAL

DESCRIPTION
Ventilation Plan
Living space

DRAWING NUMBER
ME-041

DRAWER AND SCALE
1:100
HVAC System and Heating Mode Schematic drawings

MECHANICAL

ME-201-211

1:100
HVAC System and Cooling Mode Schematic drawings

1. COWMBOX
2. OUTDOOR HEAT PUMP
3. SIEVES OF STOP
4. THERMOMETER IN THE DISPLAY (5-120°C)
5. THERMOMETER IN THE DISPLAY (-5-30°C)
6. THERMOSTATIC VALVE TMV WITH DRIVING ORGAN FOR THE INDIVIDUAL REGULATION OF ROOMS
7. ACCUMULATOR BUFFER
8. SOLAR WATER HEATER
9. SOLAR PANEL
Plan of regulation ComfoBox

Device of command ComfoBox

Master Controller Eleta
Interface Box Mitsubishi
Power level ONE / OFF Heating / cooling
Errors, signed of defrosting

Power Interver Controller

Sensors Pumps Vannes

Bus

Hydraulic module ConfoBox

Supply 230/400 V

Heat pump for the outside Mitsubishi

MECHANICAL

ME-231

LOCALIZATION

Component

Controls
Grid interconnection

Component

Electrical

Description

Grid interconnection

Drawing Number

EL-001

Scale: 1:100
### One-line Diagram

#### ELECTRICAL

<table>
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<th>Designation</th>
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<th>Bridge</th>
<th>Induction</th>
<th>Washing Machine</th>
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<td>Sans</td>
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**Drawing Number:** EL-502

---

### Localization

**Component**

- **ELECTRICAL**

**Description**

1. Connect the panel to the kitchen.
2. Install the bridge to the kitchen.
3. Install the induction hob in the kitchen.
4. Connect the washing machine in the kitchen.

---

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<th>Designation</th>
<th>Lighting</th>
<th>Controls</th>
<th>Power</th>
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<td>Equipment 2</td>
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PHOTOVOLTAIC SYSTEM

Description:
Photovoltaic system: general

Drawing number:
PV-001
Photovoltaic system:
DC circuits

Component
PHOTOVOLTAIC SYSTEM

Description
Photovoltaic system: DC circuits

Drawing Number
PV-011
Photovoltaic system:

DC circuits

PHOTOVOLTAIC SYSTEM

PV-031
Wiring plan

Ground Floor

TELECOMMUNICATIONS AND BUILDING AUTOMATIZATION SYSTEM

BAS-001

1:100
Wiring plan First Floor
TELECOMMUNICATIONS AND BUILDING AUTOMATIZATION SYSTEM

Equipment Network

VDI Network

TV-Antenna

Internet access provider

TV

Router

VDI

Calculator

Ethernet Jack

TV

Router

VDI

Media Center

TV
Monitoring panel room, Electricity meters topology and connection

ID-003
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<td>First Floor</td>
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**SDE INSTRUMENTATION DRAWINGS**

**ID-005**

**1:100**

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**27 OCTOBER 2014**

**D#7 - AS BUILT DOCUMENTATION**

**Solar Decathlon Europe 2014**

**EN FRANCE**

**27 OCTOBER 2014**

**liv-lib’ Team Paris**

**160**
La Cité du Soleil

SITE OPERATION

DESCRIPTION

La Cité du Soleil

DRAWING NUMBER

SO-101

RELATION SCALE

liv-lib’
Team Paris
Lot Plan

SITE OPERATION

DESCRIPTION

Lot Plan

DRAWING NUMBER

SO-103

SOLAR DECATHLON EUROPE 2014
EN FRANCE

27 OCTOBER 2014

D#7 - AS BUILT DOCUMENTATION

Lot Plan
Lot Plan

SITE OPERATION

DESCRIPTION

Lot Plan

DRAWING NUMBER

SO-105

SCALE: 1:1
PHASE1: Installation of the first footing
PHASE2: Installation of the columns and the beams
PHASE3: Installation of the Hub’s floor structure
PHASE4: Installation of the Hub’s cladding
PHASE5: Installation of the PV’s structure
PHASE 6: Position of the capsule's grid
Phases Assembly

SITE OPERATION

DESCRIPTION

PHASES ASSEMBLY

DRAWING NUMBER

SO-201 K

DRAWN AND CHECKED

liv-lib'
Team Paris
PHASE 15: Parking of the electrical car
Phases Disassembly

SOLAR DECATHLON EUROPE 2014

LOCALIZATION

SITE OPERATION

DESCRIPTION

DRAWING NUMBER

SO-201 U

COLOR AND SCALE

liv-lib' Team Paris

200
PHASE 6: Position of the capsule’s grid
PHASE5: Installation of the PV's structure
PHASE4: Installation of the Hub's cladding
PHASE3: Installation of the Hub’s floor structure
PHASE2: Installation of the columns and the beams
PHASE 1: Installation of the first footing
Evacuation Plan - Evacuation Route

HEALTH AND SAFETY

DRAWING NUMBER
HS-001

SCALE
1:200
Health and Safety in the lot and surrounding

Evacuation Plan - Evacuation Route

Component

Health and Safety

Description

Evacuation Plan - Evacuation Route

Drawing Number

HS-002

Scale

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Evacuation Plan - Evacuation Route

HOSPITAL'S EVACUATION ROUTE
Health and Safety in the lot and surrounding
Evacuation Plan - Evacuation to the Hospital

HEALTH AND SAFETY

Component: HS-004

Localization

Drawn by: [Name]

Liv-lib'

Team Paris
Obligations signange

HEALTH AND SAFETY

Description

Obligations signage

DRAWING NUMBER

HS-301

SCALE: 0
PHASE1: Installation of the first footing
PHASE2: Installation of the columns and the beams
PHASE3: Installation of the Hub’s floor structure
PHASE 4: Installation of the Hub's cladding
PHASE 5: Installation of the PV’s structure
PHASE6: Position of the capsule's grid
PHASE7: Installation of the panels of the capsule floor
PHASE 8: Installation of the capsule's parts
PHASE9: Installation of the central part of the capsules
PHASE11: Cladding of the capsule
PHASE12: Installation of the PV’s panels
PHASE 13: Installation of the terrace's and ramp's scaffolding
PHASE 14: Laying out the terrace and the ramp
Site accessibility

PUBLIC TOUR

DESCRIPTION

Note:
1. Ramp is used to access and exit the house. In case of an handicapped person, the ramp is empty when needed, handrails are priority always.
2. Because we can't have an elevator inside the house, the visit to the second level will be open just for the tour. A simulation panel in the house ensures will be also be demonstrated to the general public how we imagined the office space.
House tour floor plan

PUBLIC TOUR

PT-101

1:100

Each delegate is responsible to manage the teams and the safety of each group and to avoid problems of interaction between them.
House Tour General Information

PUBLIC TOUR

DESCRIPTION

The HUB

The HUB is the heart of our house. Here is were people meet but it’s also were the “magic” happens. In other words, where the solar house is recharged and transferred into energy to the house. A guide here will give the groups all the information about the operation of this area.

In this wall, a glass window will be able to show the visitors how the walls of the HUB works in this house. They are not just structural walls but they also contain all the house installations.

ON-FOUR HOUSES

This space is dedicated to illustrating an example of occupation of the capsule as an office. This is the last space to be visited.

THE HUB

In this counter, the visitors will find schematic cards with different types of informations about the concept and the main parts of the project.

A monitor will be showing an informative video that will introduce the HUB and explain the Liv-Lib project as a future inside an urban-side district.

The capsule office:

This space is dedicated to illustrating an example of house occupation.

The capsule office:

A guide will explain the concept that how the capacity to be transported to other HUB’s due to its compact forms (as in a capsule). This area is dedicated to illustrate an example of house occupation.