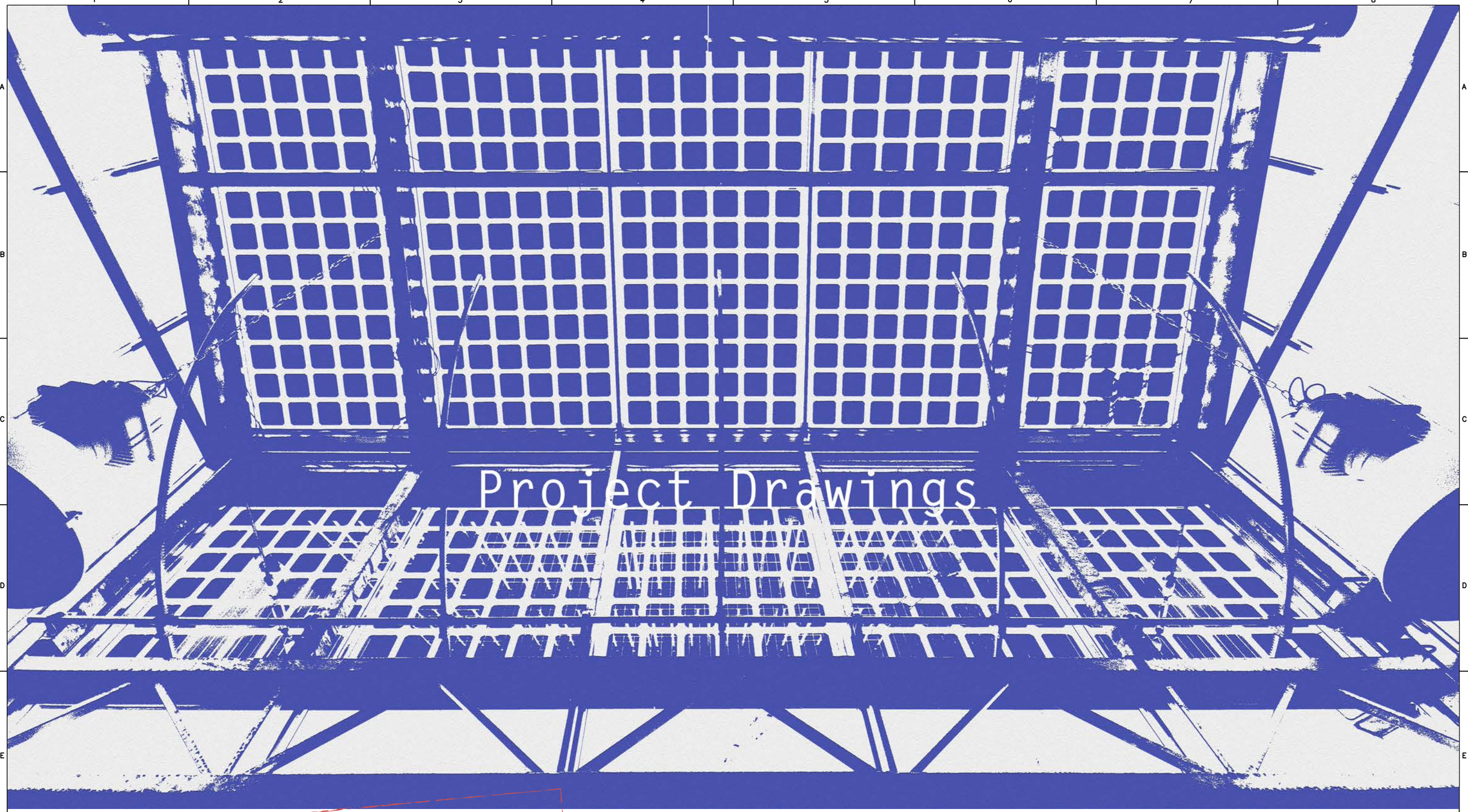

Project Drawings

FINAL DRAWINGS
INSPECTED AND APPROVED
01-11-2014

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger – Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: COVER SHEET PROJECT DRAWINGS	

Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: n.a.

Drawing Code: **GE-001**

A3

1. GENERAL
GE-001 Cover Sheet
GE-101 Sheet list
GE-201 General symbols
GE-301:302 Urban Project Location
GE-310:315 Urban Proposal Explanation
GE-320:323 Existing Building drawings and analysis
GE-324:328 Existing Building drawings with Skin
GE-330:332 Competition Dwelling
GE-401 Exterior Renderings

2. ARCHITECTURAL
AR-001 La Cité du Soleil Plan
AR-002 Site Plan
AR-003 Site Plan Top View
AR-011 Solar Envelope
AR-014 Architectural Footprint
AR-017 Measurable Area
AR-021 Ground Floor plan
AR-022 First Floor plan
AR-031 Roof Plan
AR-032 Roof Plan Projected
AR-041 Reconfigurable features
AR-051 Measurable Area
AR-101:102 Site elevations
AR-111:113 Building elevations
AR-201:202 Longitudinal Sections
AR-211:212 Transversal sections
AR-301 Window Schedule and Details
AR-311 Door Schedule and Details
AR-321 Floor Construction Details
AR-331 Roof Construction Details
AR-341:342 Wall Sections and Construction Details
AR-351 Partitions Details
AR-361 Stair Details
AR-362 Sunshading Panel
AR-363 Sunshading System

3. BIOCLIMATIC ANALYSIS
BA-001 Local Climate Analysis
BA-011:013 Bioclimatic drawings

4. INTERIOR
IN-001 Ground Floor
IN-002 First Floor
IN-101:102 Reflected ceiling
IN-201 Elevations
IN-301 Furnishings
IN-401 Kitchen Plan
IN-411 Kitchen Elevations
IN-501:502 Bathroom plan
IN-511:512 Bathroom Elevations
IN-601:603 Interior Renderings

5. STRUCTURAL - House
ST-001 Foundation Plan and Details
ST-002 Load Bearing Plan
ST-011:012 Structural Floor Plans
ST-021 Structural Roof Plan
ST-101 Structural Longitudinal Sections
ST-111 Structural Transversal Sections
ST-201 Structural Blow ups
ST-301 Structural Details

5. STRUCTURAL - Greenhouse
ST-202 3D Overview
ST-203 Section overview
ST-204 Dimensions
ST-303 Beam Details
ST-304 Frame Details

6. FIRE PROTECTION
FP-001:002 Fire Protection

7. PLUMBING
PL - 001:003 Plan Domestic Grey Waste Water
PL - 004:006 Plan Domestic Water
PL - 011 Plumbing Plan Grey Water
PL - 021:023 Plumbing Plan Waste Water
PL-101 Schematic diagram Domestic Water
PL-102 Schematic diagram Grey Water
PL-103 Schematic diagram Waste Water
PL-201 Domestic Water Isometric
PL - 211 Grey water Isometric
PL- 221 Waste water Isometric

8. SOLAR WATER HEATING
SW-001:003 Plan
SW-101 Isometric

9. MECHANICAL
ME-001:005 HVAC distribution Plan
ME-011 HVAC equipment heating
ME-012 HVAC equipment cooling/heating
ME-021:023 Heating
ME-031:034 Cooling
ME-041:044 Ventilation
ME-101 Mechanical room elevations
ME-201:204 HVAC System Schematic drawings
ME-211 Heating mode Schematic drawings
ME-221 Cooling mode Schematic drawings
ME-231 Controls
ME-301:303 Isometric Ditribution

10. ELECTRICAL
EL-001 Grid interconnection
EL-301:303 Power plan
EL-401:402 Lighting plan
EL-501 One-line Diagram
EL-601 AC Cicuit layout
EL-602 Electrical box layout

11. PHOTOVOLTAIC
PV-001 Photovoltaic system: general
PV-011 Photovoltaic system: DC circuits
PV-021 Photovoltaic system: AC circuits
PV-031 Photovoltaic system: grounding system
PV-041 PV type A
PV-051 PV type B
PV-061 Photovoltaic system Construction System
PV-071 Photovoltaic system Construction Details
PV-081 Photovoltaic system Wiring

12. TELECOMMUNICATIONS AND BAS
BAS-001 Wiring plan
BAS-101 Schematic diagram
BAS-201 Equipment

13. SDE INSTRUMENTATION DRAWINGS
ID-001 (g+f) General Monitoring
ID-002 Monitoring panel room
ID-003 Electricity meter topology
ID-004 Electricity meters connection
ID-005 House appliances

14. SITE OPERATIONS
SO-001 Trucks shipment
SO-101 La Cité du Soleil®
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SO-210:223 Phases

15. HEALTH AND SAFETY
HS-001 lot and surroundings
HS-201 Inside Logistic
HS-301 load / unload.
HS-401:416 assembly / maintenance / disassembly.

16. PUBLIC TOUR
PT-001 Site accessibility
PT-101:102 House tour floor plans
PT-201:202 House Tour General Information

Awarding Institution: Solar Decathlon Europe
Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase: CONSTRUCTION DOCUMENTATION
Drawing Block: GENERAL DRAWINGS
Drawing Subject: SHEET LIST

Revisions		
4	01.11.2014	DEL #7
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3
Drawing Scale: n.a.
Drawing Code: **GE-101**

A3

cut lines (walls, floors etc)

cut lines for free-standing objects (skin posts, doors, windows, etc)

cut glass line (for windows)

projected lines foreground

projected lines middleground

projected lines background

hidden lines above cutting layer

hidden lines below cutting layer

contact seam between cut materials (within a cut wall or floor)

contact seam between projected materials

primary axis lines

secondary axis line

symbols line (stair symbols, elevation symbols, labels etc)

free texts (outside of labels)

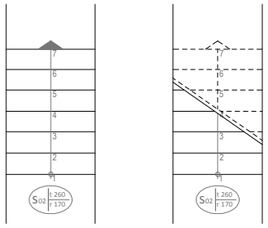
dimentions

hatch_cut materials

hatch_projected materials

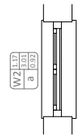
window trajectory

10 cm / 15 cm — thermal insulation lines

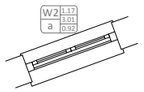


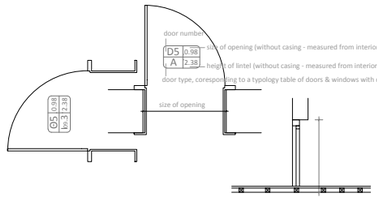






position of the label will be on the axis of the opening (wall to wall), 0.05 m away from the sill line either horizontal or vertical (use discretion) and on the inside of the room



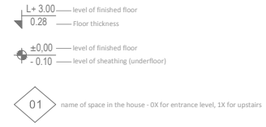


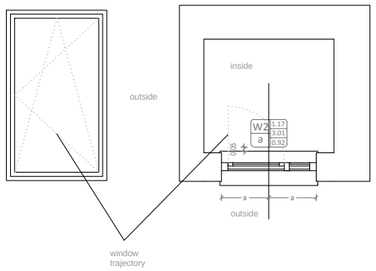












all measurements are in mm

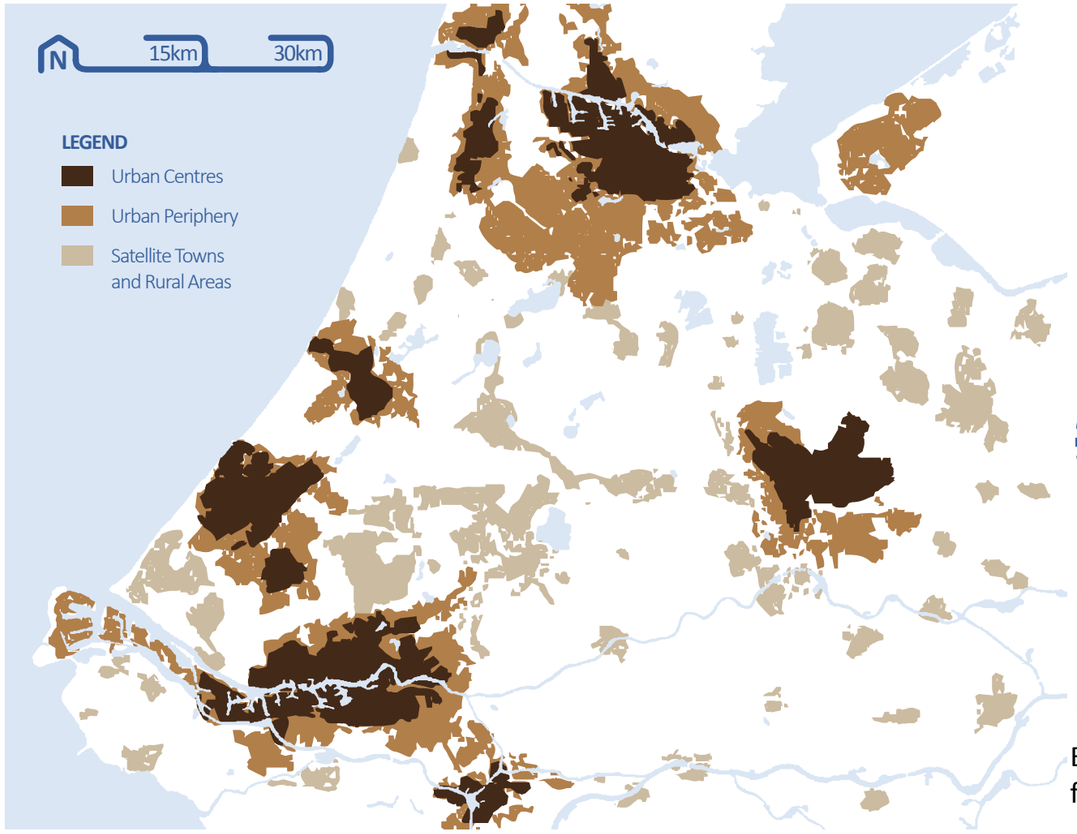
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: GENERAL SYMBOLS	

Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

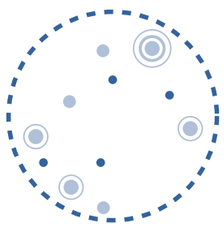
Paper Size	A3
Drawing Scale	n.a.
Drawing Code	GE-201

A3



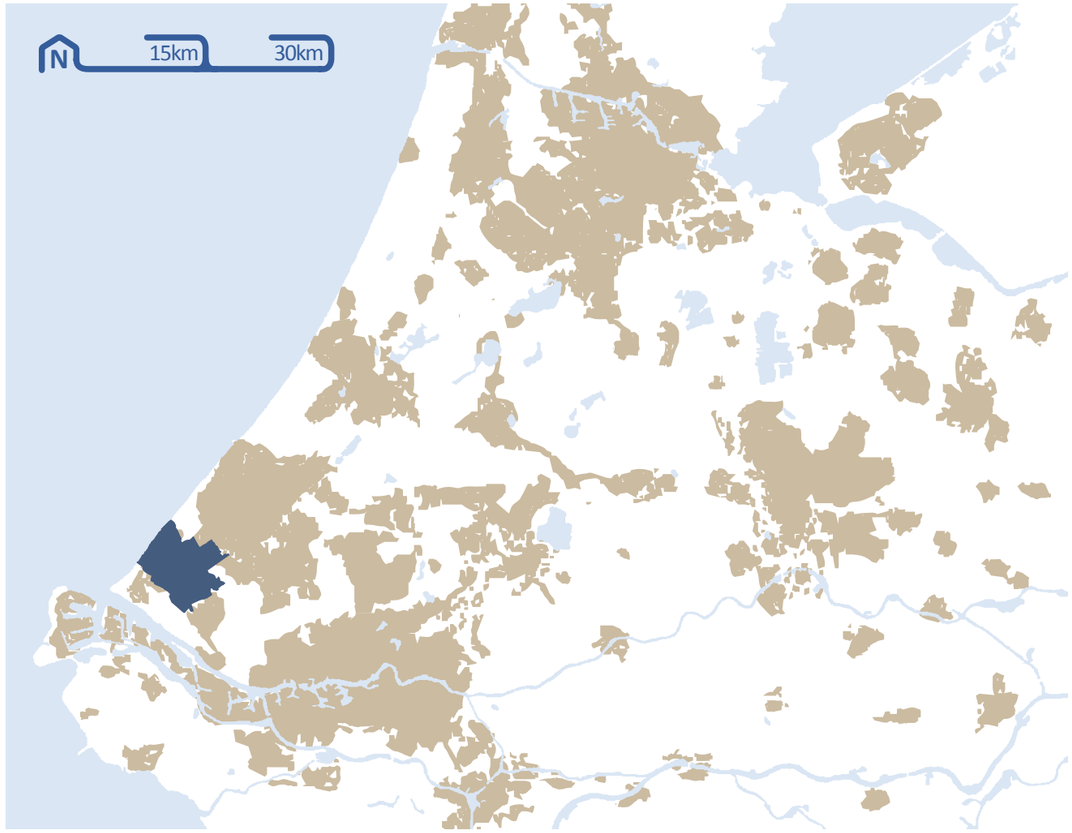
The typology of the different urban settlements within Randstad (Netherlands)







Evaluation criteria for site selection:

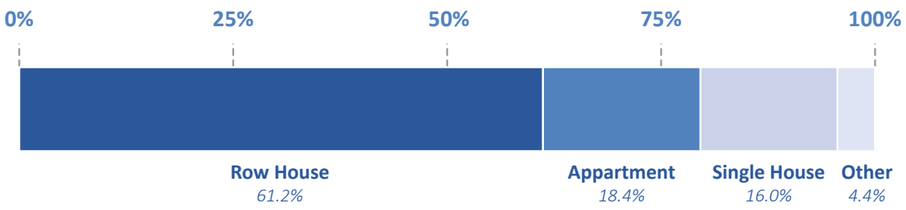


Location of the municipality of Westland within Randstad



Our project context: Honselersdijk, Westland Region

Graph indicating the percentage of residents who inhabit the certain typologies in the Netherlands



Searching for a town with row-house significance.

Abstract

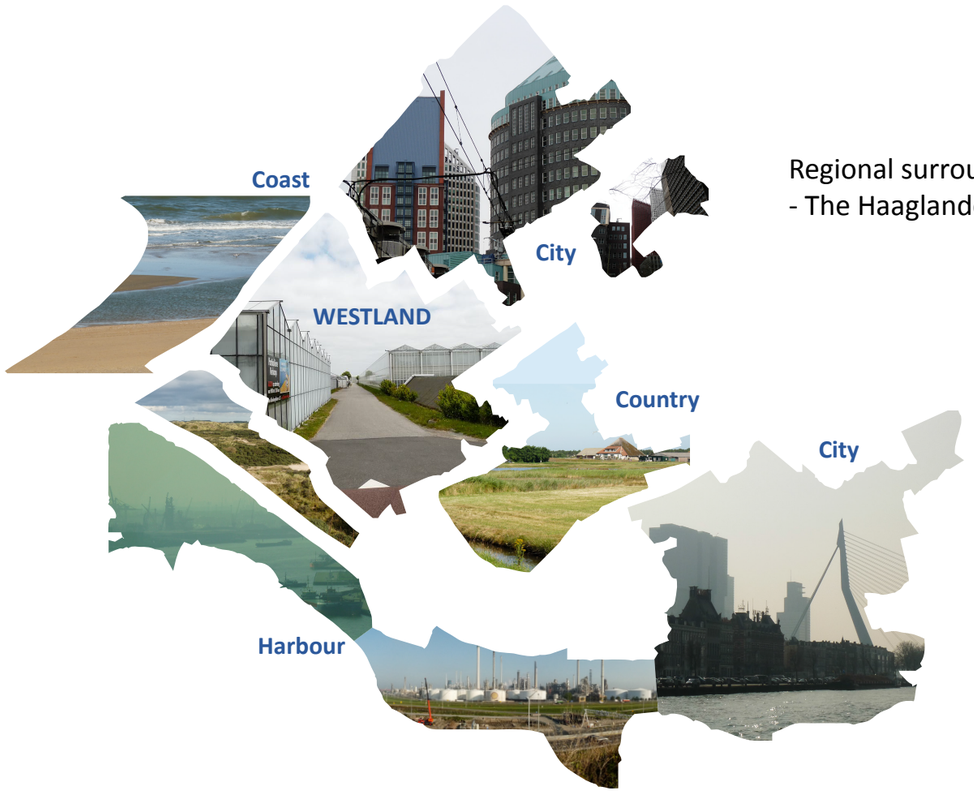
Our world is undergoing an unprecedented process of global urbanisation. Cities have been growing, both spatially and demographically, manifesting urban sprawl. This pre-determines a constantly rising pressure on energy and mobility systems challenging the sustainability of the urban environments. Striving to deal with these issues the existing building stock and transportation networks, which serve the ever changing urban lifestyles, demand certain adaptations. The urban concept is developed on the basis of the architectural / technological solution for energy self-sustaining unit i.e. house and aggregated on urban scale in order to envision an energy self-sustaining habitat. The essence of the strategy relies on the promotion of distributed energy generation and shared consumption implemented simultaneously via top-down and bottom-up planning approaches. This dual approach is facilitated by a well-elaborated parametric 'Urban Toolbox'. In terms of urban planning Prêt-à-Loger introduces the 'Max Town' concept aiming to incorporate the flows of energy, vegetation, food, water, waste and mobility into an enclosed system where the output of one flow can be utilised as an input for another one.
Aiming to enhance the transport network efficiency an integrated strategy, established on bicycling and shared vehicles, is elaborated linking Honselersdijk with the existing mobility nodes on metropolitan level. On urban level green mobility, i.e. cycling and walking, is employed as major mode of movement circulation. This urban mobility strategy seeks for establishment of walkable neighbourhoods contributing to lower vehicle travel and energy use; what is more, it provides new possibilities for extra utilisation of the street environment as community gardening and gathering space. The urban concept does not only concern the physical adaptation and the connection of the house with the surrounding public space but rather than this it utilises the design of the house as a technological solution on the basis of which a comprehensive vision and strategy for achieving of self-sustaining habitat is projected.

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	URBAN PROJECT LOCATION

Revisions		
4	--.--.----	-
3	31.05.2014	Second Revision
2	29.04.2014	First Revision
1	03.03.2014	Initial Version

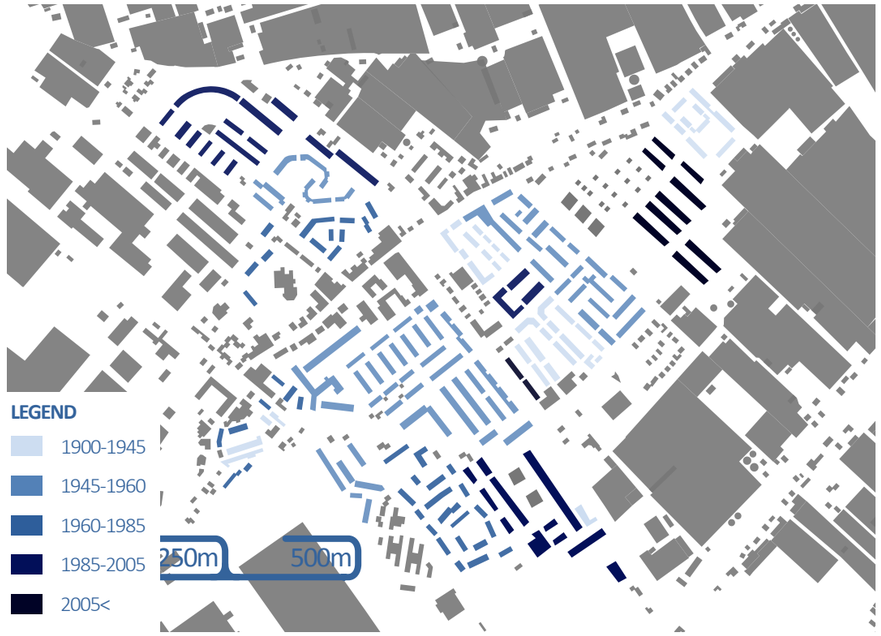
Paper Size	A3
Drawing Scale	n.a.
Drawing Code	GE-301

A3



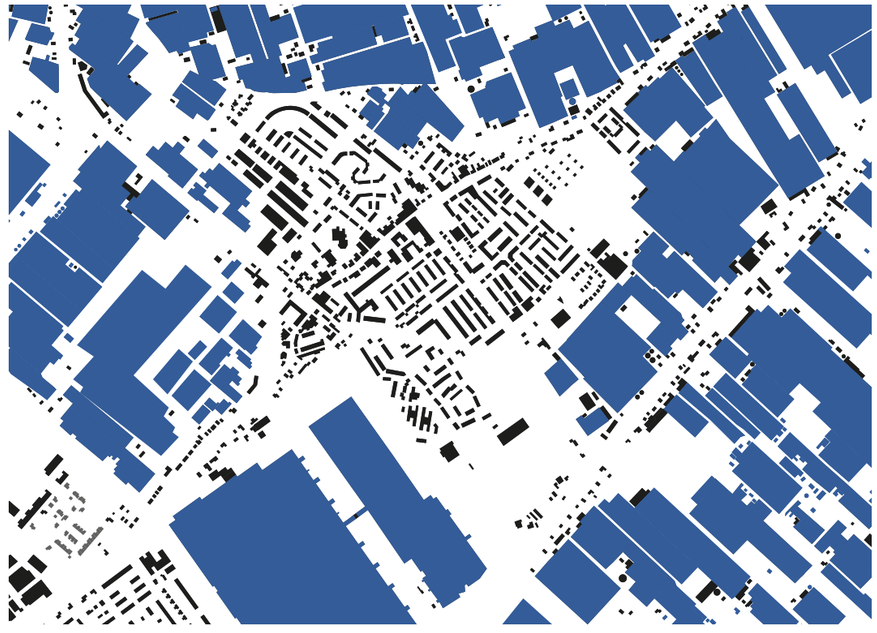
Regional surrounding
- The Haaglanden

The building year of the row-houses stock within Hoselersdijk

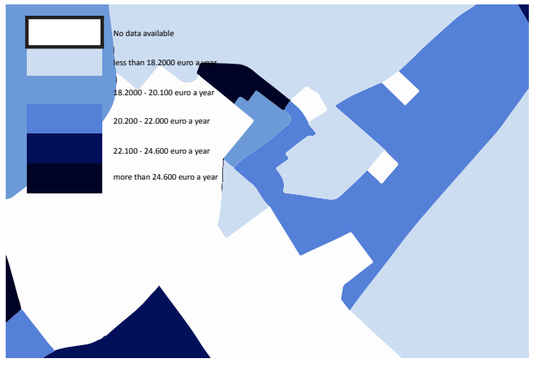


Special pattern of the Westland with the residential/greenhouse pattern mix

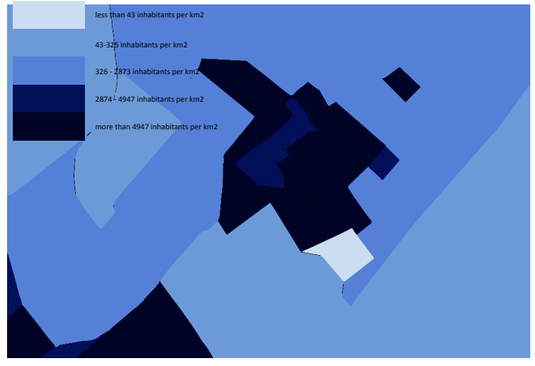




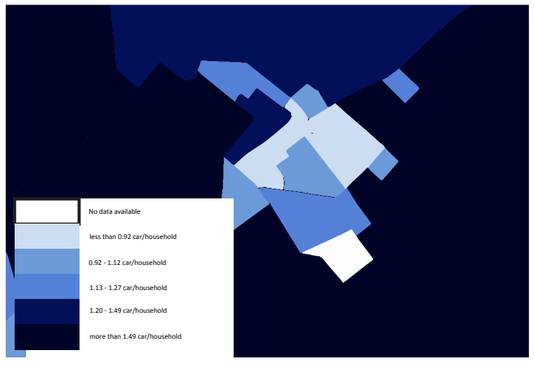
Income



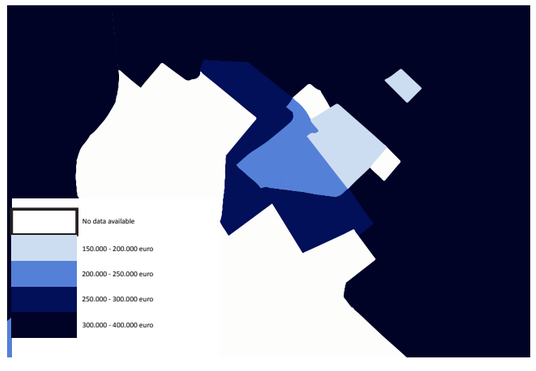
Density



Car=household



Outcome



Honselersdijk perspective.

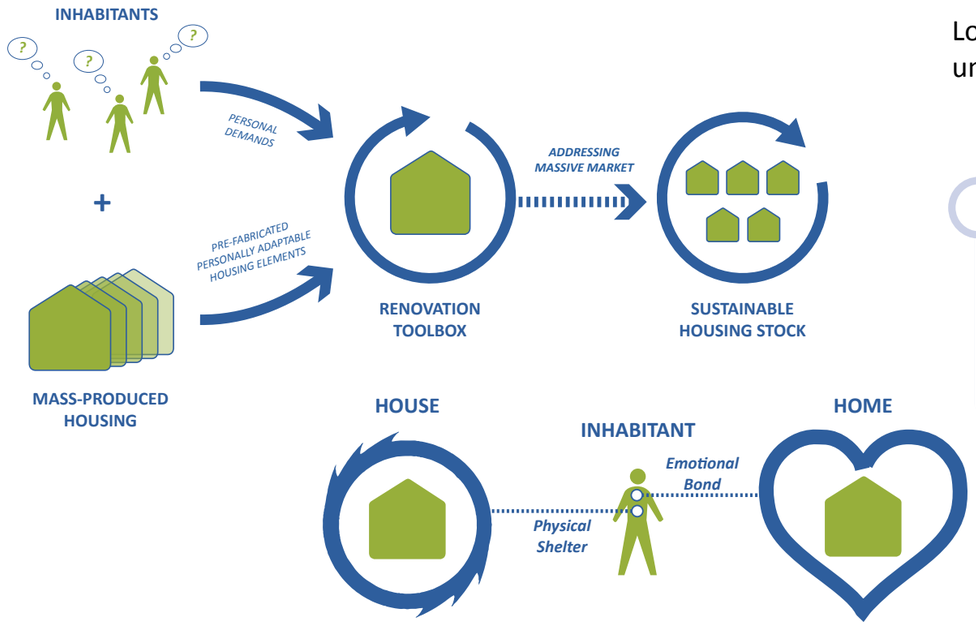
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: URBAN PROJECT LOCATION	

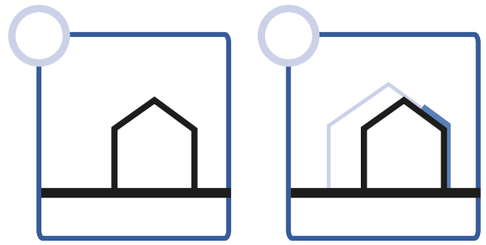
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	Initial Version

Paper Size: A3
Drawing Scale: n.a.
Drawing Code: **GE-302**

A3



Looking for solution for the unsustainable urban fabric



THE SKIN

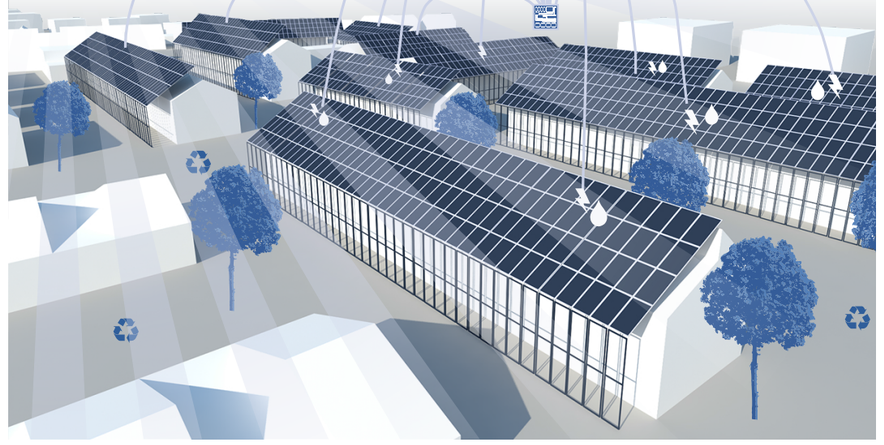
25% of building stock under skin *110 houses / neighbourhood* *400 houses / town*

-998.8 MWh/year/NEIGHBOURHOOD **+62.7 MWh/year/NEIGHBOURHOOD**
-3,995.2 MWh/year/TOWN **+250.8 MWh/year/TOWN**
-3,242 m3/year/NEIGHBOURHOOD
-12,967 m3/year/TOWN



100% of building stock under skin *440 houses / neighbourhood* *1755 houses / town*

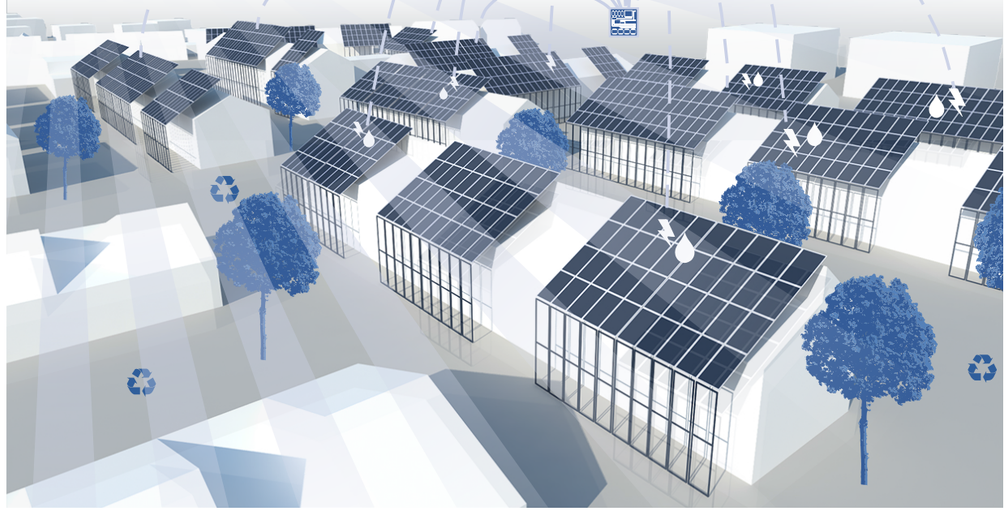
-3,995.2 MWh/year/NEIGHBOURHOOD **+250.8 MWh/year/NEIGHBOURHOOD**
-15,935.4 MWh/year/TOWN **+1,000.4 MWh/year/TOWN**
-12,967 m3/year/NEIGHBOURHOOD
-51,720 m3/year/TOWN



Current energy consumption (appliences/heating): 9.075 MWh/year/home (1.52/7.55 MWh)
New energy consumption (appliences/heating): 3.18 MWh/year/home
New energy consumption (appliances/climate/+heating): 1.53/1.15/+0.5 MWh/year/home
New PV production: 3.75 MWh/year/home **Yearly extra energy: 568 kWh/year/home**
Rainwater collection (/year/home)
68.3 m³ available - 52.5 m³ collected - 29.5 m³ used (18% saved on drinking water)

75% of building stock under skin *330 houses / neighbourhood* *1316 houses / town*

-2,996.4 MWh/year/NEIGHBOURHOOD **+188.1 MWh/year/NEIGHBOURHOOD**
-11,949.3 MWh/year/TOWN **+755.1 MWh/year/TOWN**
-9,725 m3/year/NEIGHBOURHOOD
-38,783 m3/year/TOWN



Consumption and production of individual house

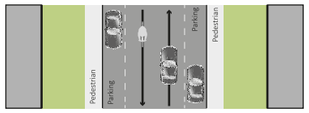
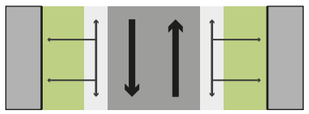
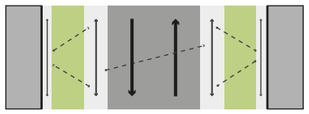
Consumption and production of building rows in Honselersdijk

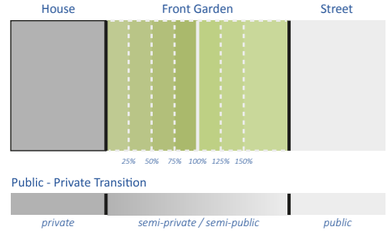
Environmental effects of the different scenarios on neighbourhood and on urban scale.

The Skin and phasing for different utilisation

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - ; 3 31.05.2014 Second Revision ; 2 29.04.2014 First Revision ; 1 03.03.2014 Initial Version
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: n.a.
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: URBAN PROPOSAL EXPLANATION	Drawing Code: GE-310

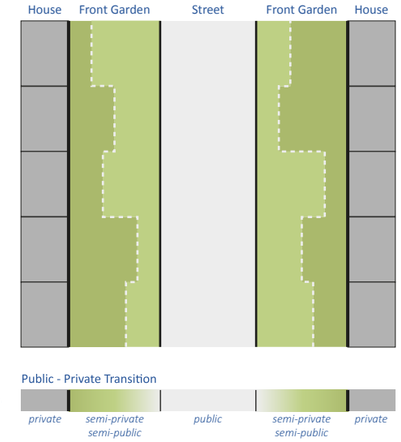
A3

Design Aspects	Variation	Representation	Remarks
A. Motor Vehicle Access	(01) Full		⊕ Easy automobile access and sufficient parking space for the households ⊖ Substantial part of the public space is being occupied by automobiles ⊖ Constant motorised vehicle on the street bringing traffic insecurity and pollution
Conceptual design toolbox according to mobility and public spaces	(02) Limited		⊕ Provision of additional space able to facilitate extra urban functions ⊕ Enhanced safety on the street ⊖ Loss of the unlimited access and visual control over the private automobiles
B. Mobility Flow	(01) Central Artery		⊕ Clear indication of the mobility flows on the street ⊕ Coherent organisation of the streetscape ⊖ Lack of flexibility of the movement circulation
	(02) Dispersed		⊕ Creation of movement hierarchy defined by paths with diverse characteristics ⊕ Higher flexibility in terms of street's functionality ⊖ Lack of coherence of the street's spatial organisation
C. Public Space	(01) Collective		⊕ Sufficient space for provision of public amenities independently of private ownership rights ⊕ Possibilities for locating public facilities which require larger spaces ⊖ Collective public spaces do not suit the profile / composition of every street
	(02) Scattered		⊕ Do not demand involvement of large amount of actors for their creation ⊕ Generic solution for the provision of public amenities ⊖ Possible visiual and functional conflicts between different residents
	(03) Mixed		⊕ Possibilities for creation of various public spaces in terms of functionality ⊕ A more flexible approach which can be adopted in large variety of streets



A. Individual

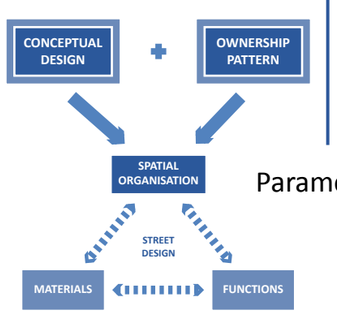
The 'Ownership Pattern' toolbox on individual and street scale



B. Collective

Conceptual design scenarios based on matrix principles between the different design aspects





Parametric design framework

Searching for collective urban typologies.

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: URBAN PROPOSAL EXPLANATION	

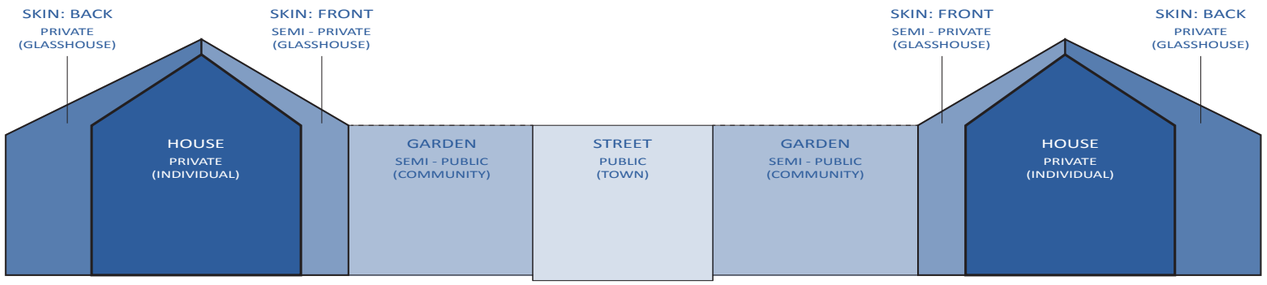
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	Initial Version

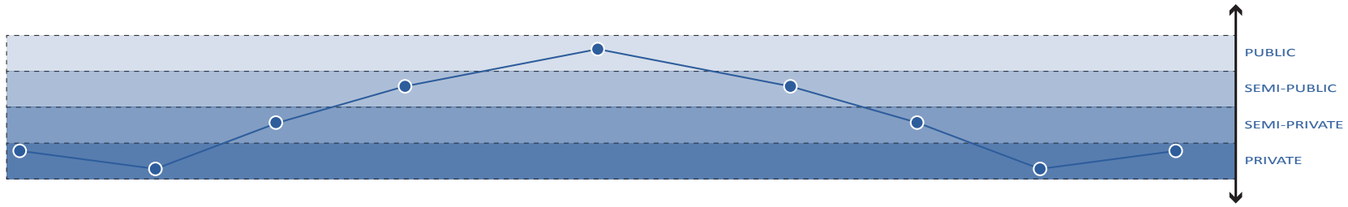
Paper Size: A3

Drawing Scale: n.a.

Drawing Code: **GE-311**

A3

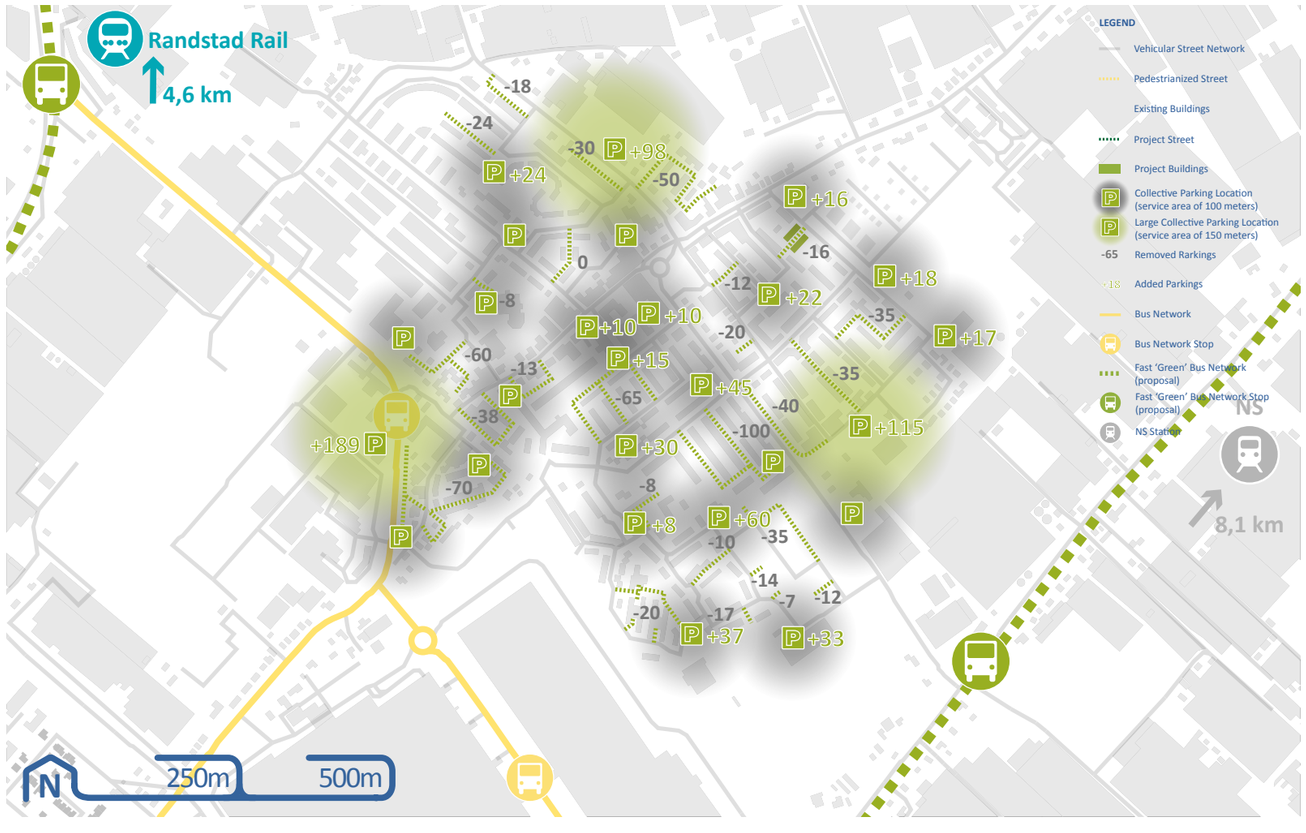




Transition between private and public zones

Street - Neighbourhood - Town

Collective parking network.



urban environment in a case of limited automobiles' access and local inhabitants maintain the private ownership over their front gardens



a case of limited automobiles' access, dispersed mobility flows with a highly diversed ownership pattern resulting on the formation of both collective and scatterd (semi-) public spaces



one large collective public space shared by the street's residents with limited automobiles' access and dispersed mobility flows



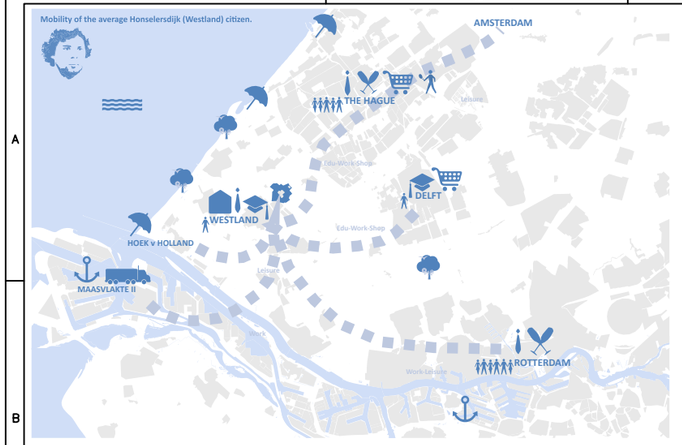
Community oriented environment

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: URBAN PROPOSAL EXPLANATION	
Paper Size: A3	
Drawing Scale: n.a.	
Drawing Code: GE-312	

Revisions		
4	--.--.----	-
3	31.05.2014	Second Revision
2	29.04.2014	First Revision
1	03.03.2014	Initial Version

A3



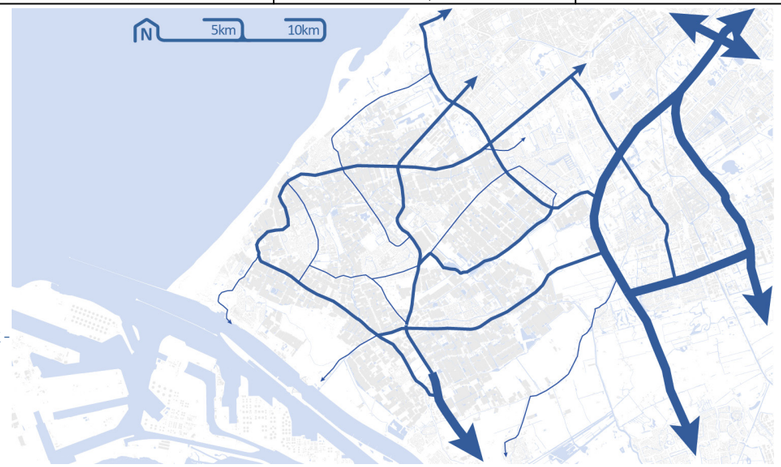


LEGEND

- motorway
- national road
- regional road

LEGEND

- primary network - regional mobility
- secondary network - local flow
- tertiary network - neighbourhoods



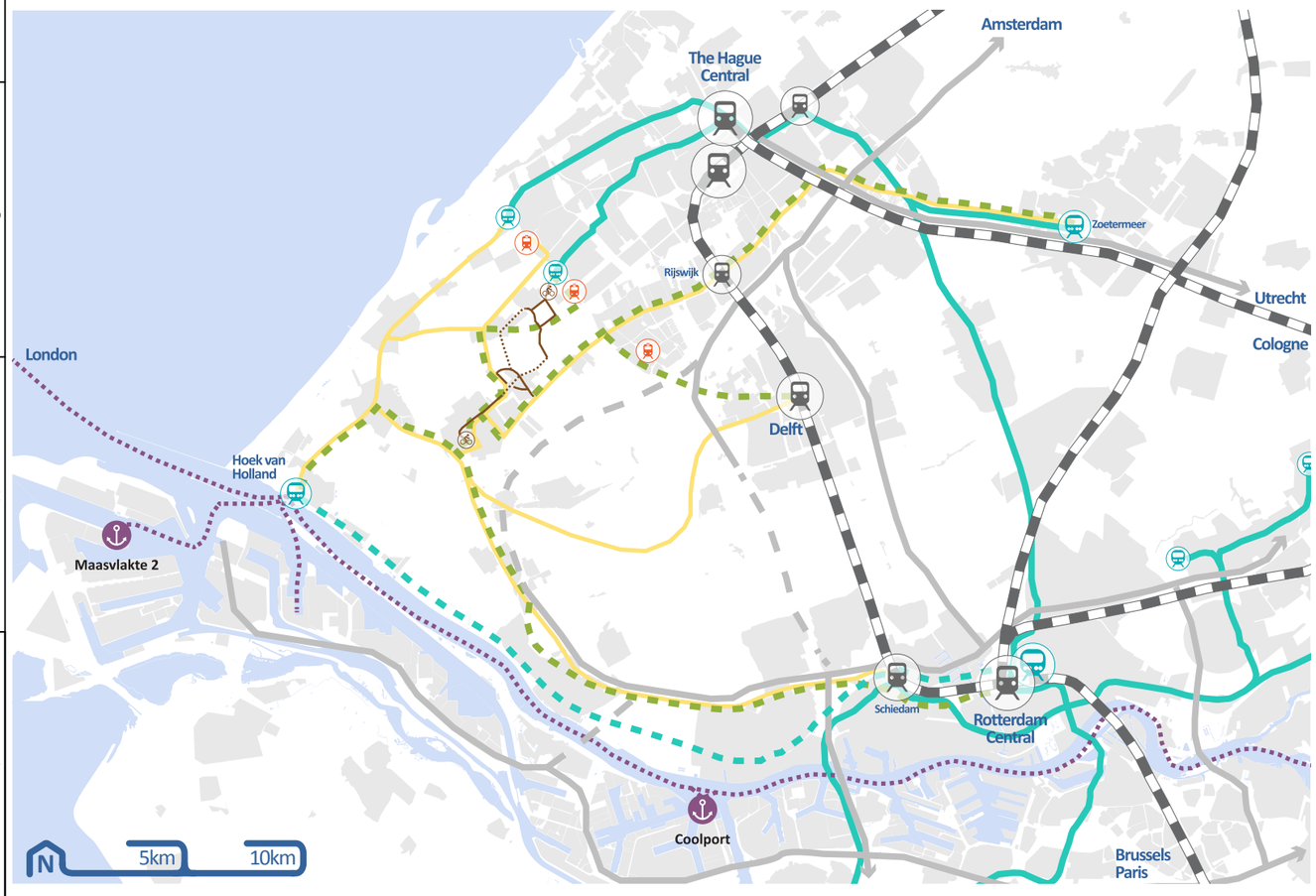
Major mobility network on urban (left) and metropolitan (right) scale

LEGEND

- Honselersdijk
- Highway Network
- NS Station
- Railroad Network
- Light Rail/Metro Station
- Light Rail/Metro Network
- Tram Network Station
- Bus Network
- Ferry Network
- Bicycle Network Honselersdijk
- Bike + Ride Station
- Bicycle Network Honselersdijk (proposal)
- Fast 'Green' Bus Network (proposal)
- Light Rail Network (proposal- modification)
- Highway Network (proposal)

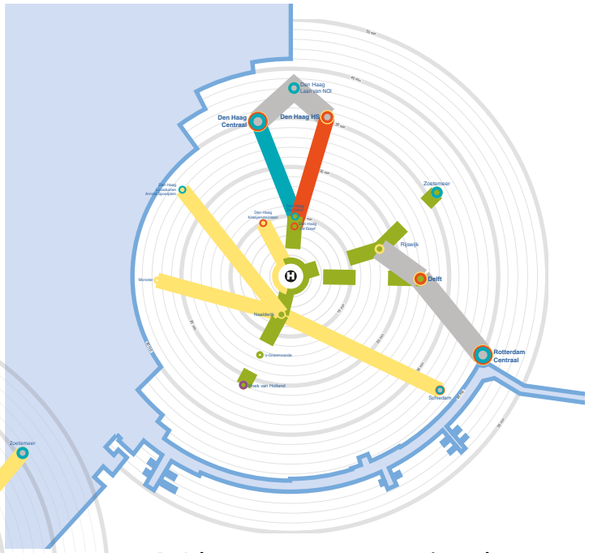
Conceptual illustration representing the major destinations of interest for the average Honselersdijk citizens within the Haaglanden Metropolitan Area

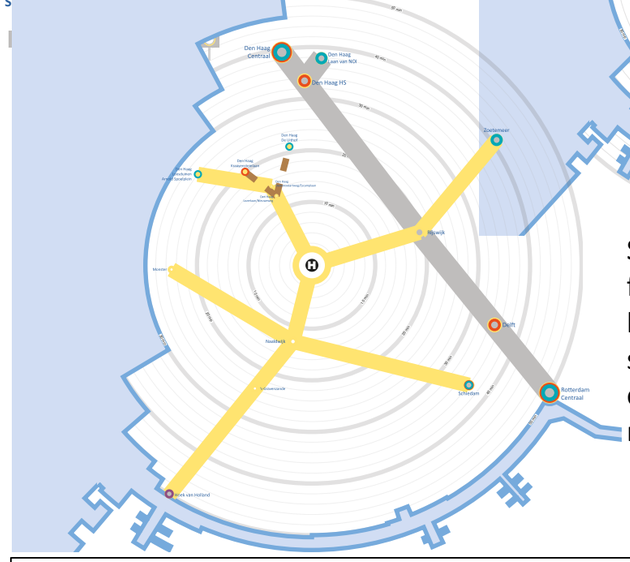
Public transportation network highlighting the connection between Honselersdijk and the surrounding cities



LEGEND

- Honselersdijk
- Railway Network
- Randstad Network
- Tram Network
- Fast 'Green' Bus Network
- Bus Network
- Ferry Network





Spider maps representing the fastest public transportation links between Honselersdijk and surrounding cities in respect to the existing (left) and proposed (right) mobility network

Regional network

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: URBAN PROPOSAL EXPLANATION	

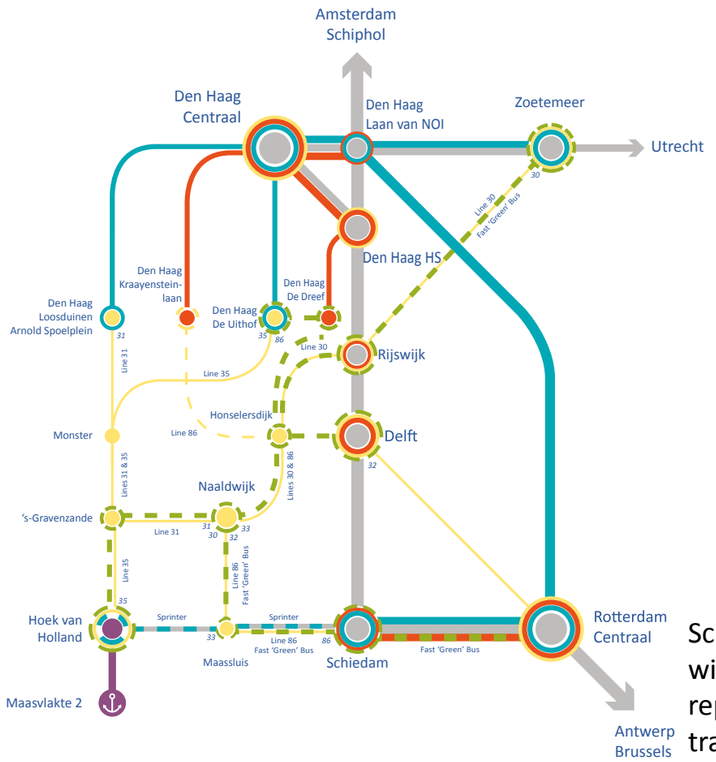
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size: A3

Drawing Scale: n.a.

Drawing Code: **GE-313**

A3



LEGEND

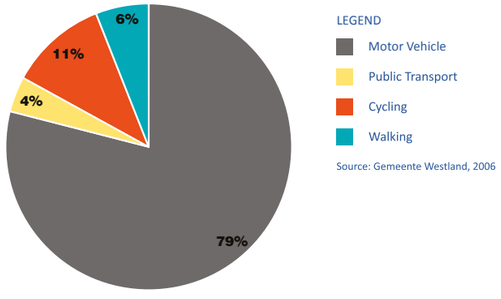
- Existing Network
- Proposed Network
- Railway Network
- Randstad Network
- Tram Network
- Fast 'Green' Bus Network
- Bus Network
- Ferry Network

Scheme of the connectivity network within the Honselersdijk region representing the major public transport nodes and routes including the team's propositions for further enhancement of the network.

Travel Route		Existing Network		Proposed Network	
		Time	Transport	Time	Transport
Honselersdijk	Naaldwijk	13 min		13 min (0)	
Honselersdijk	Rijswijk	19 min		17 min (-2)	
Honselersdijk	DH Kraayensteinlaan	20 min		10 min (-10)	
Honselersdijk	Den Haag De Uithof	21 min		10 min (-11)	
Honselersdijk	's-Gravenzande	24 min		15 min (-9)	
Honselersdijk	Monster	25 min		25 min (0)	
Honselersdijk	DH Arnold Spoelplein	26 min		26 min (0)	
Honselersdijk	Den Haag HS	33 min		31 min (-2)	
Honselersdijk	Delft	35 min		24 min (-11)	
Honselersdijk	Schiedam Centrum	36 min		36 min (0)	
Honselersdijk	DH Laan v NOI	38 min		36 min (-2)	
Honselersdijk	Den Haag Central	39 min		30 min (-9)	
Honselersdijk	Zoetemeer	42 min		32 min (-10)	
Honselersdijk	Rotterdam Central	50 min		40 min (-10)	
Honselersdijk	Hoek van Holland	50 min		22 min (-28)	

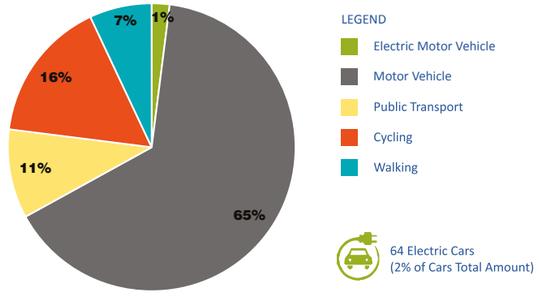
Travel time estimation of the existing and proposed networks

Modal Split (Existing)



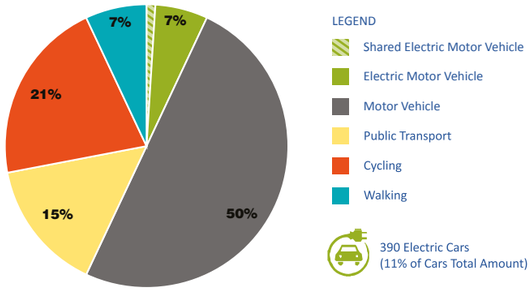
Source: Gemeente Westland, 2006

Modal Split (Phase I 2020)



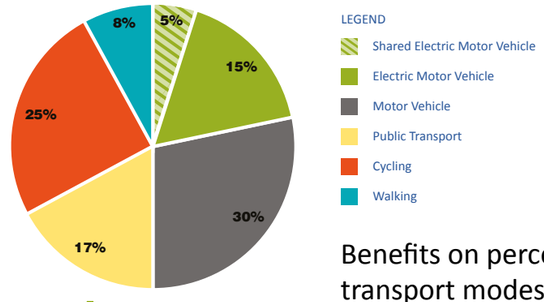
64 Electric Cars
(2% of Cars Total Amount)

Modal Split (Phase II 2025)



390 Electric Cars
(11% of Cars Total Amount)

Modal Split (Phase III 2030)



1038 Electric Cars
(40% of Cars Total Amount)

Benefits on percentage of transport modes in the different times

RANDSTAD_BUS
Sustainable Regional Transportion



36 km
54'
12 stops
2 units

26 km
46'
8 stops
2 units

42 km
52'
12 stops
2 units

System running between 7h to 10h and 15h to 22h

Financial return time and benefits of hybrid buses

	€	L/100km	€fuel/km	€/km
hybrid diesel	220,000	25	0.37	0.53
	110,000	30%	0,13	
	330,000	17.5	0.26	0.51

Return time 5,5 years

Regional network

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- -; 3 31.05.2014 Second Revision; 2 29.04.2014 First Revision; 1 03.03.2014 Initial Version
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: n.a.
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: URBAN PROPOSAL EXPLANATION	Drawing Code: GE-314

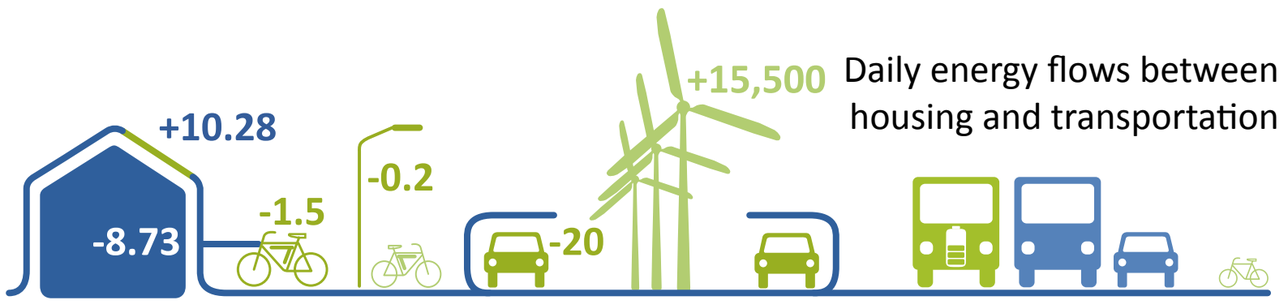
A3



LEGEND

- Vehicular Street Network
- Pedestrianized Street
- Existing Buildings
- Project Street
- Project Buildings
- Electric Microgrid Generator (service area of 500 meters)
- Collective Parking Location (service area of 100 meters)
- Large Collective Parking Location (service area of 150 meters)
- +18 Added Parkings
- +25 Electric Cars
- Bus Network
- Bus Network Stop
- Fast 'Green' Bus Network (proposal)
- Fast 'Green' Bus Network Stop (proposal)
- NS Station

Solar energy may cannot support the system alone, however, by combining renewable energy resources such as PVs with wind turbines, the self-sustaining future is achieveable.



Daily energy flows between housing and transportation

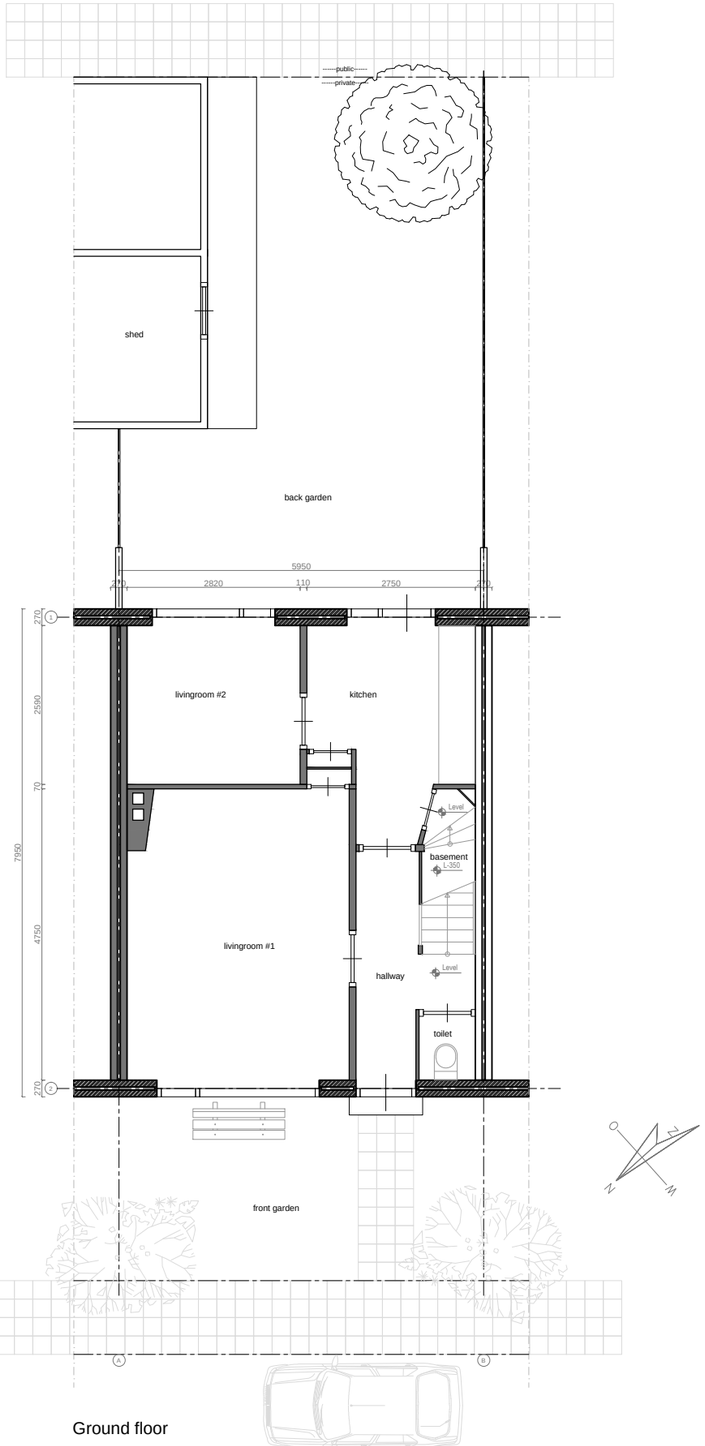
Energy flow of collective parking and smart grid as well as between housing and transportation

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: URBAN PROPOSAL EXPLANATION	

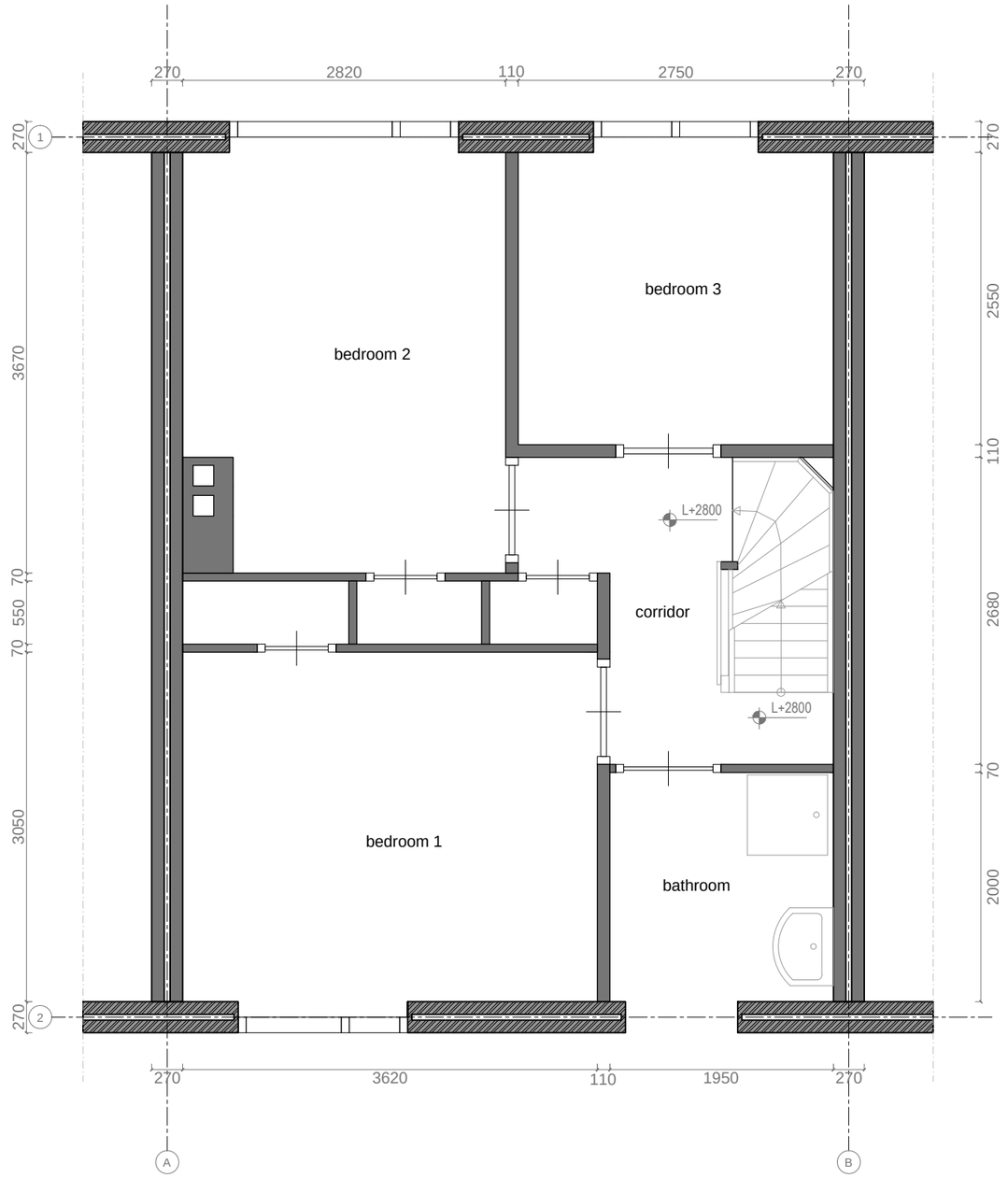
Revisions		
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	First Revision
1	03.03.2014	Initial Version

Paper Size: A3
Drawing Scale: n.a.
Drawing Code: **GE-315**

A3



Ground floor



First floor

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: STOMPERSDIJK, HONSELERSDIJK, NL	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: existing building drawings GROUND & FIRST FLOOR	

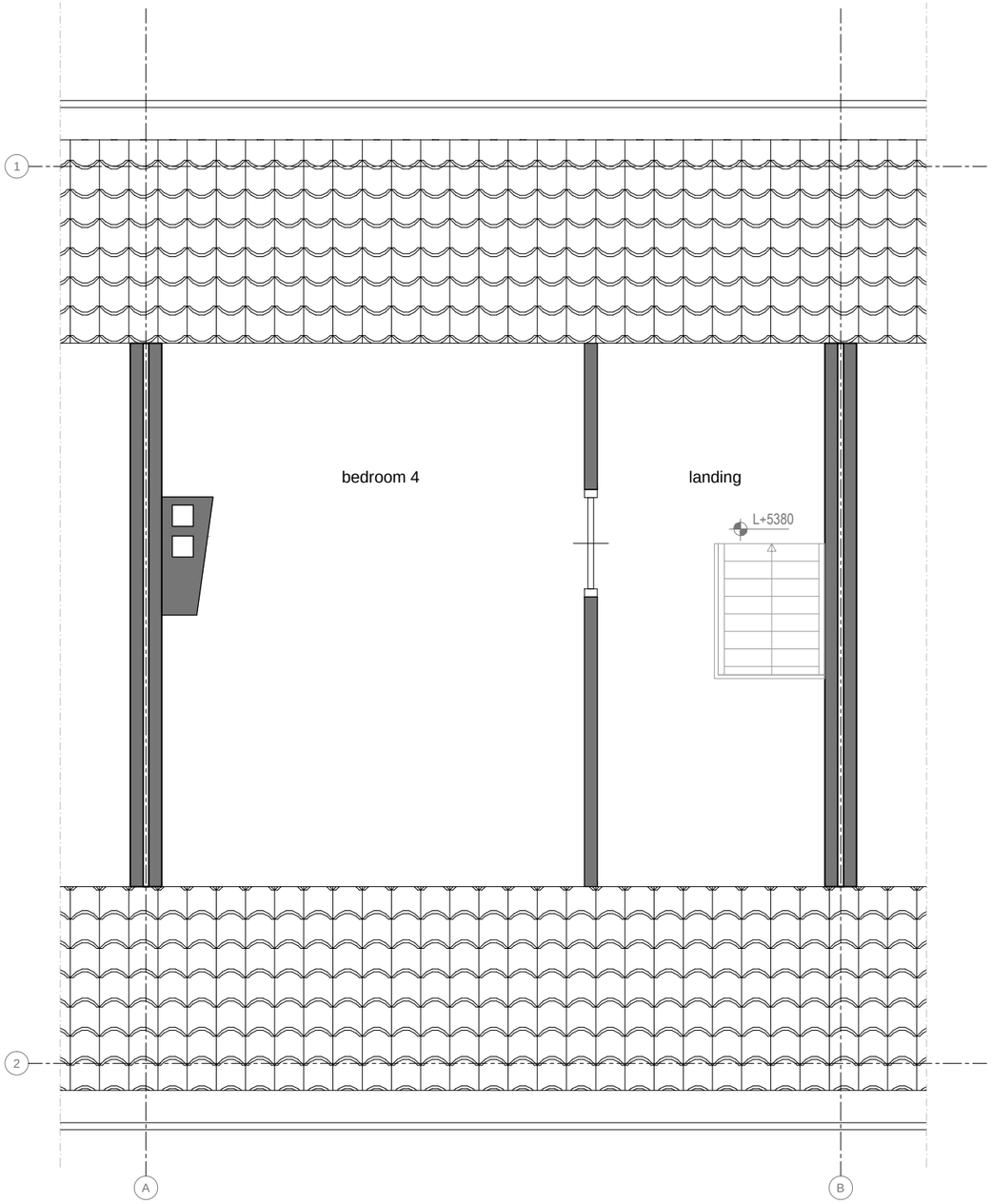
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100/50

Drawing Code: **GE-320**

A3



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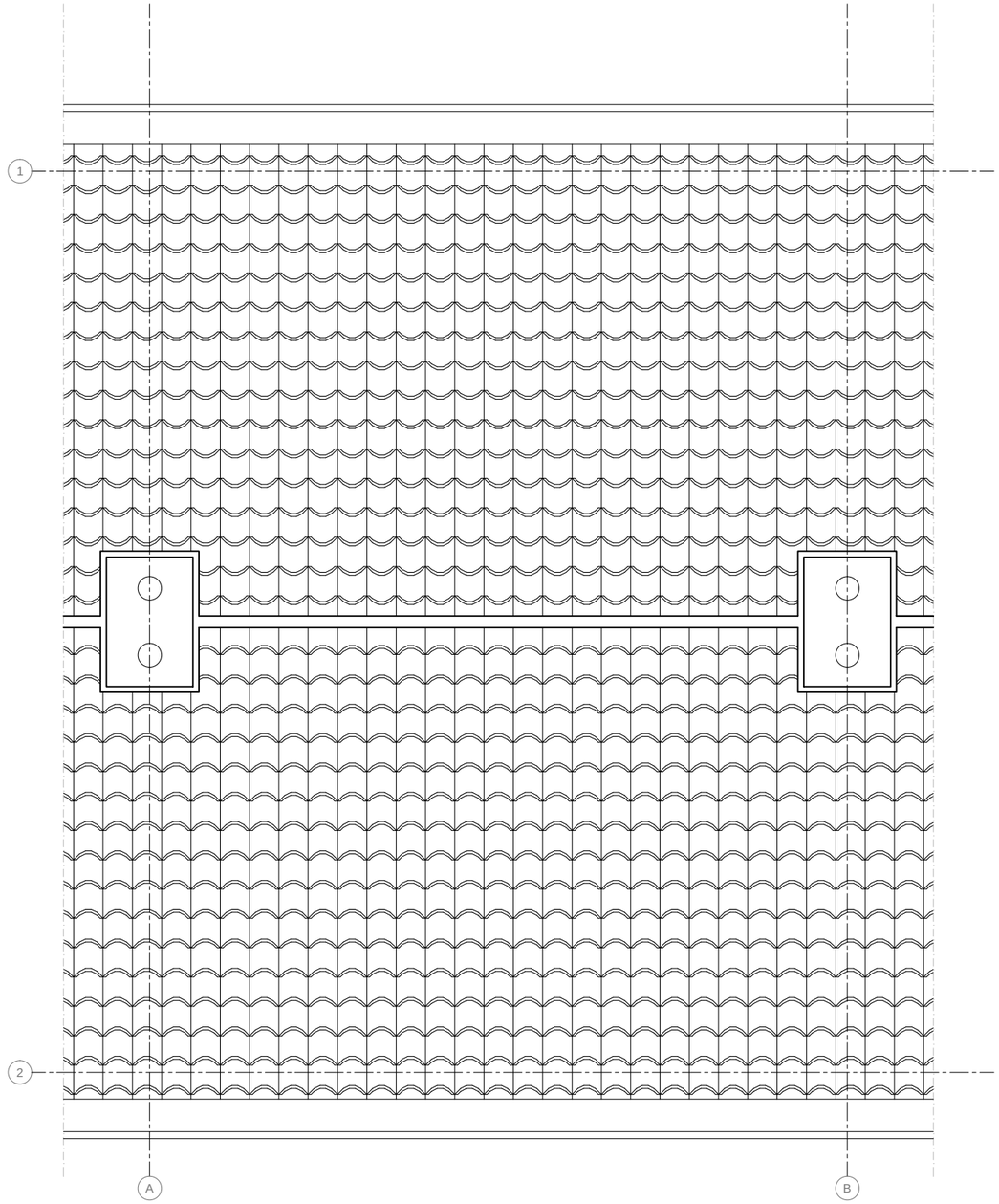


Roofplan

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger – Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: STOMPERSDIJK, HONSELERSDIJK, NL	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: existing building drawings ATTIC & ROOFPLAN	

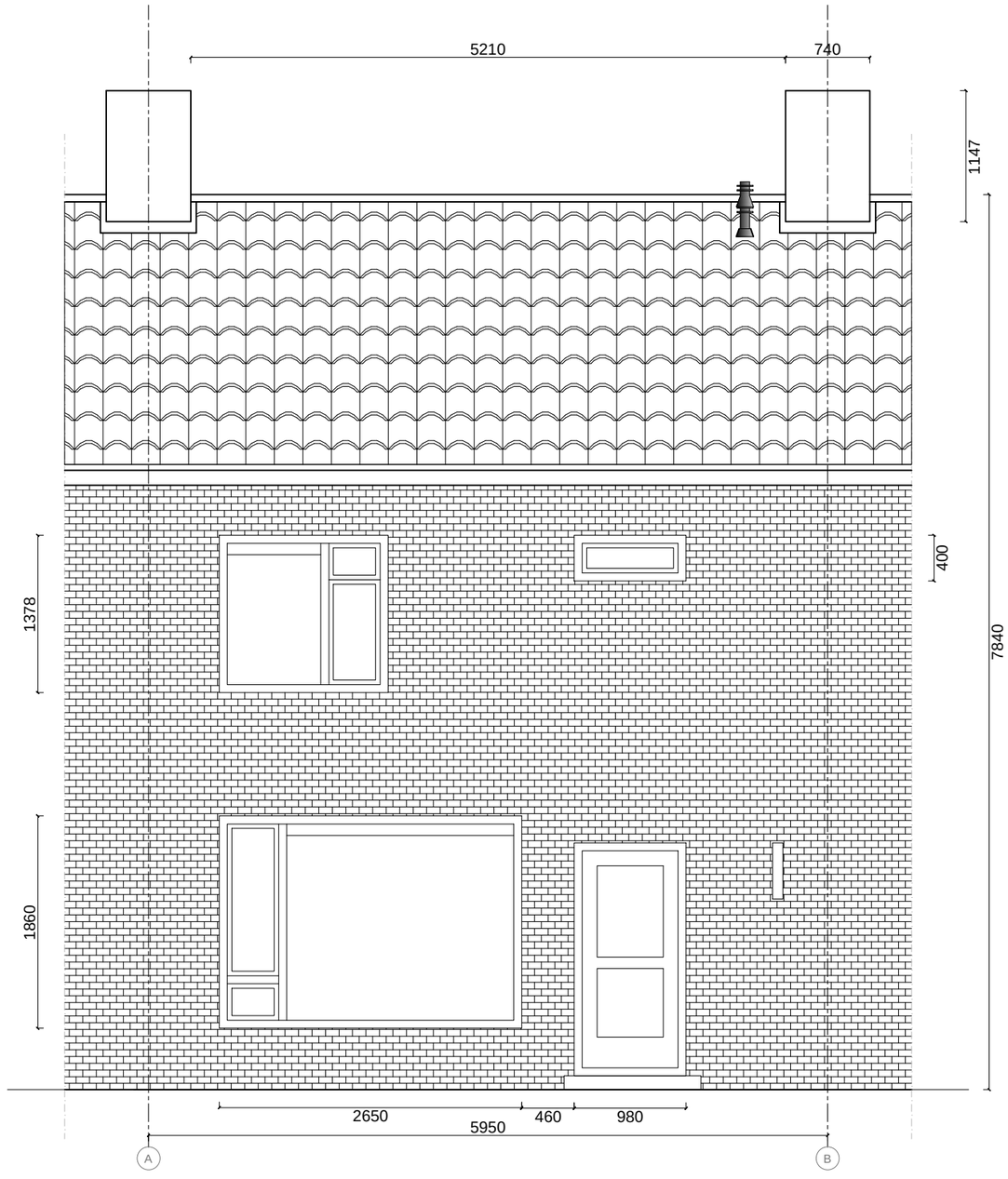
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

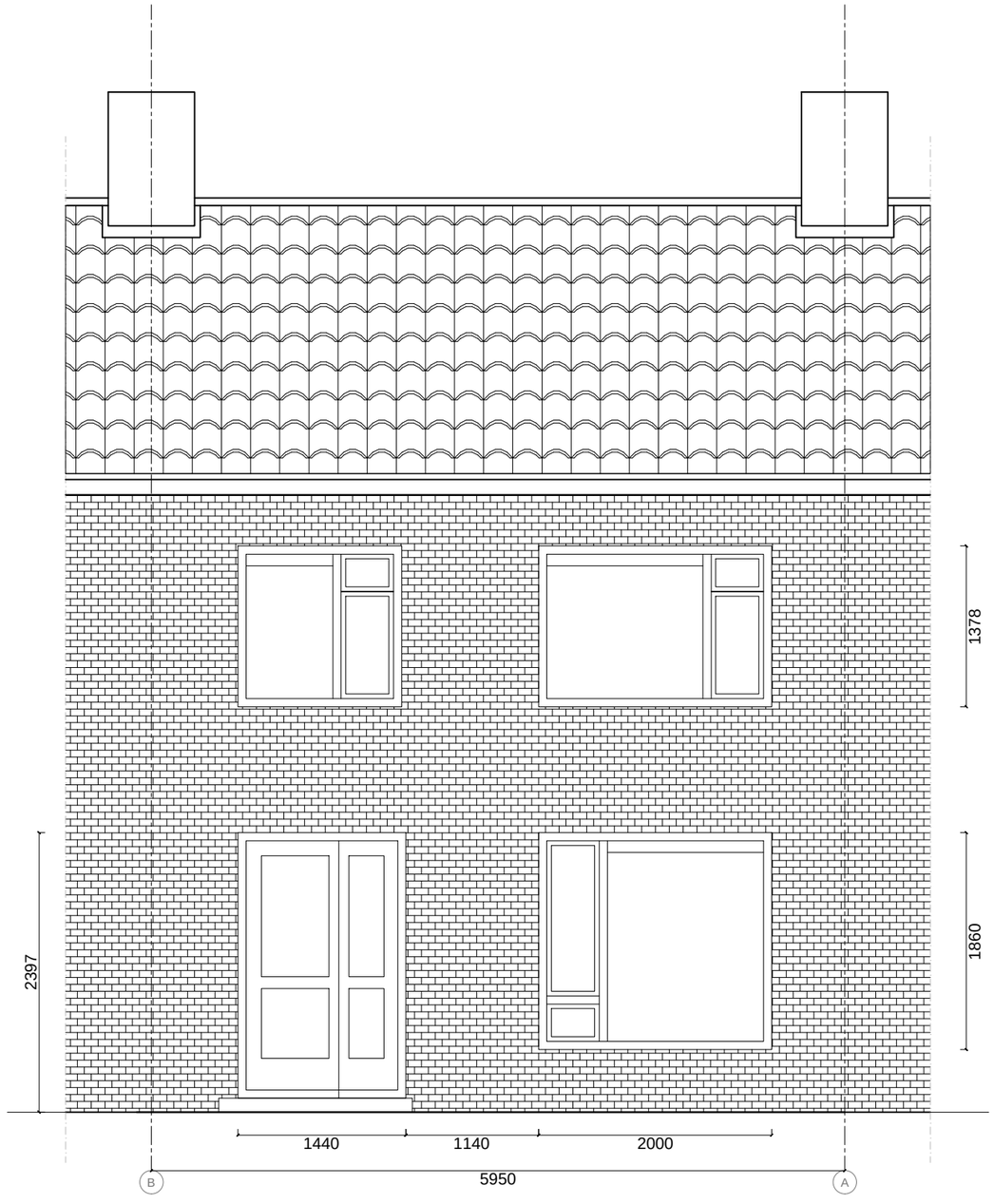
Drawing Scale: 1:50

Drawing Code: **GE-321**

A3



Front facade



Back facade

all measurements are in mm

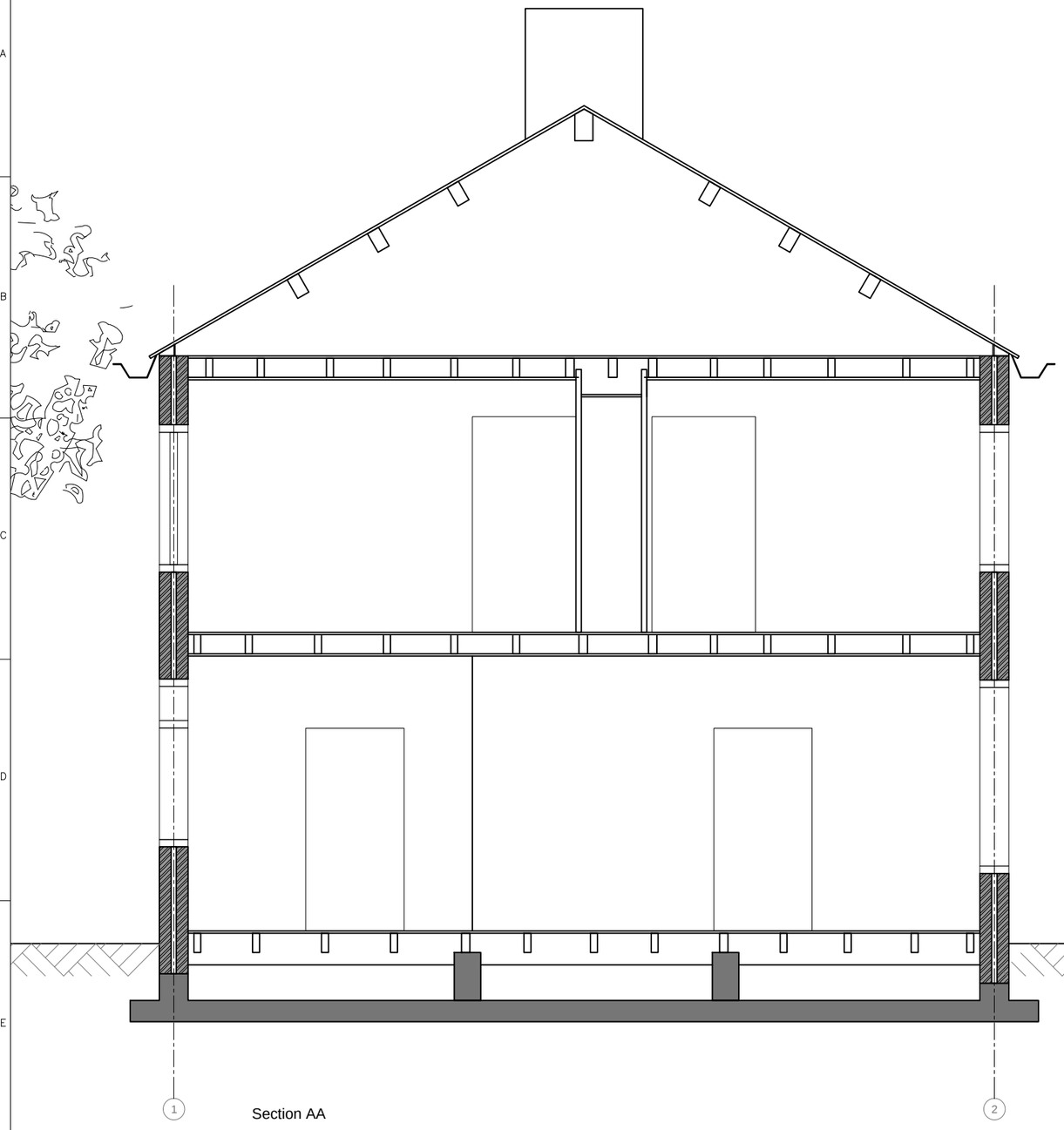
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: STOMPERSDIJK, HONSELERSDIJK, NL	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: existing building drawings FRONT & BACK ELEVATIONS	

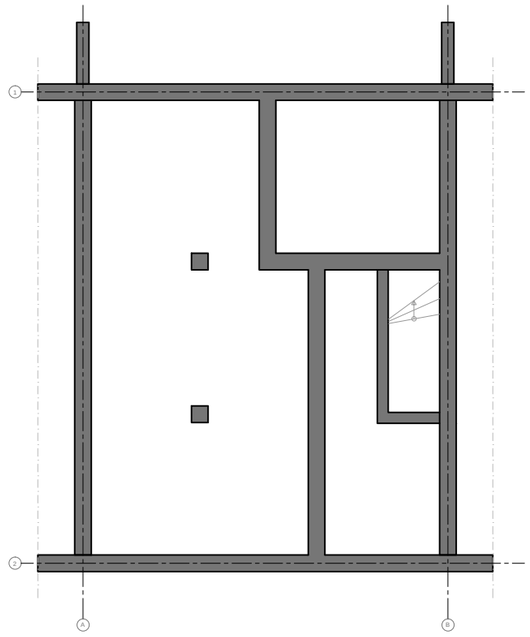
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	GE-322

A3



Section AA

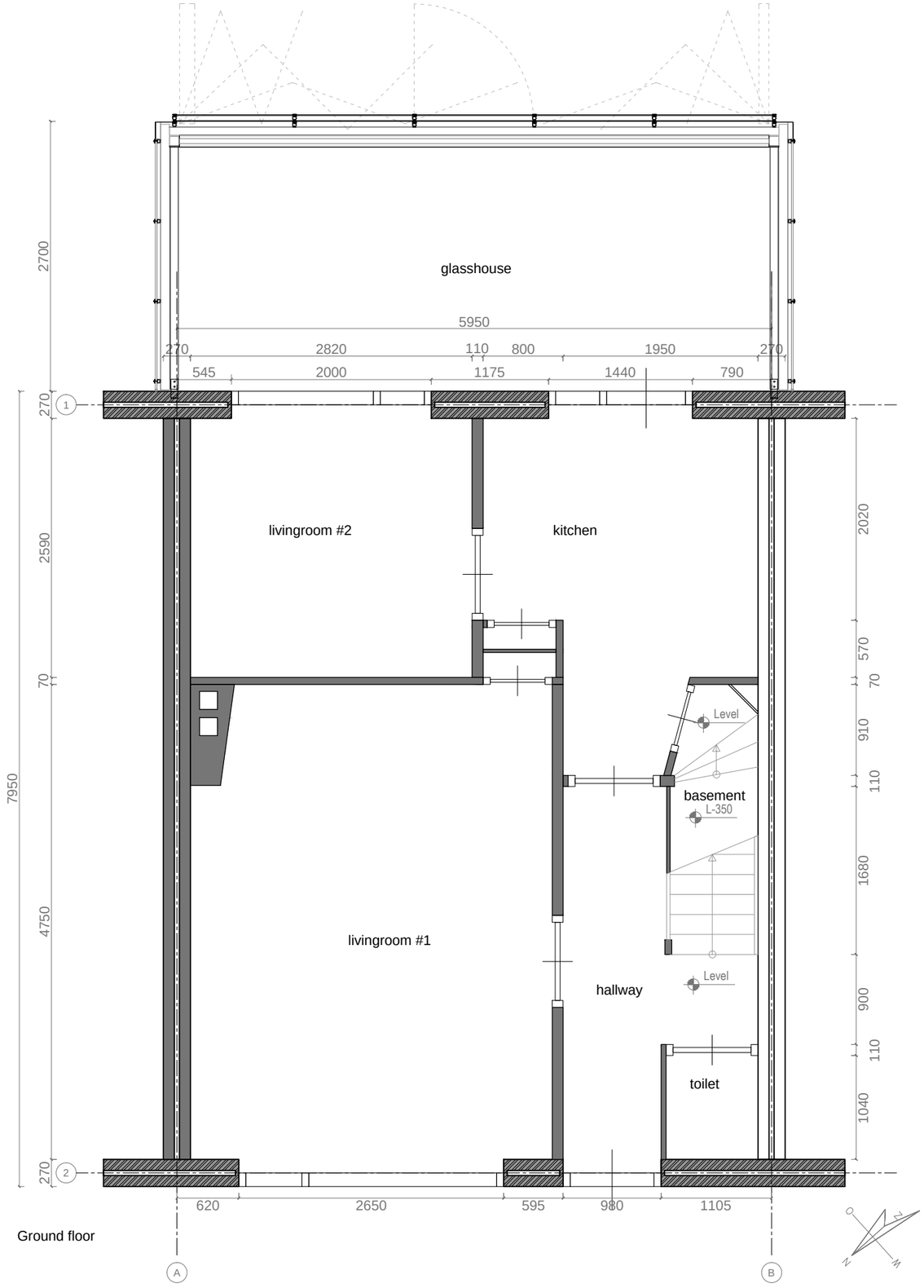


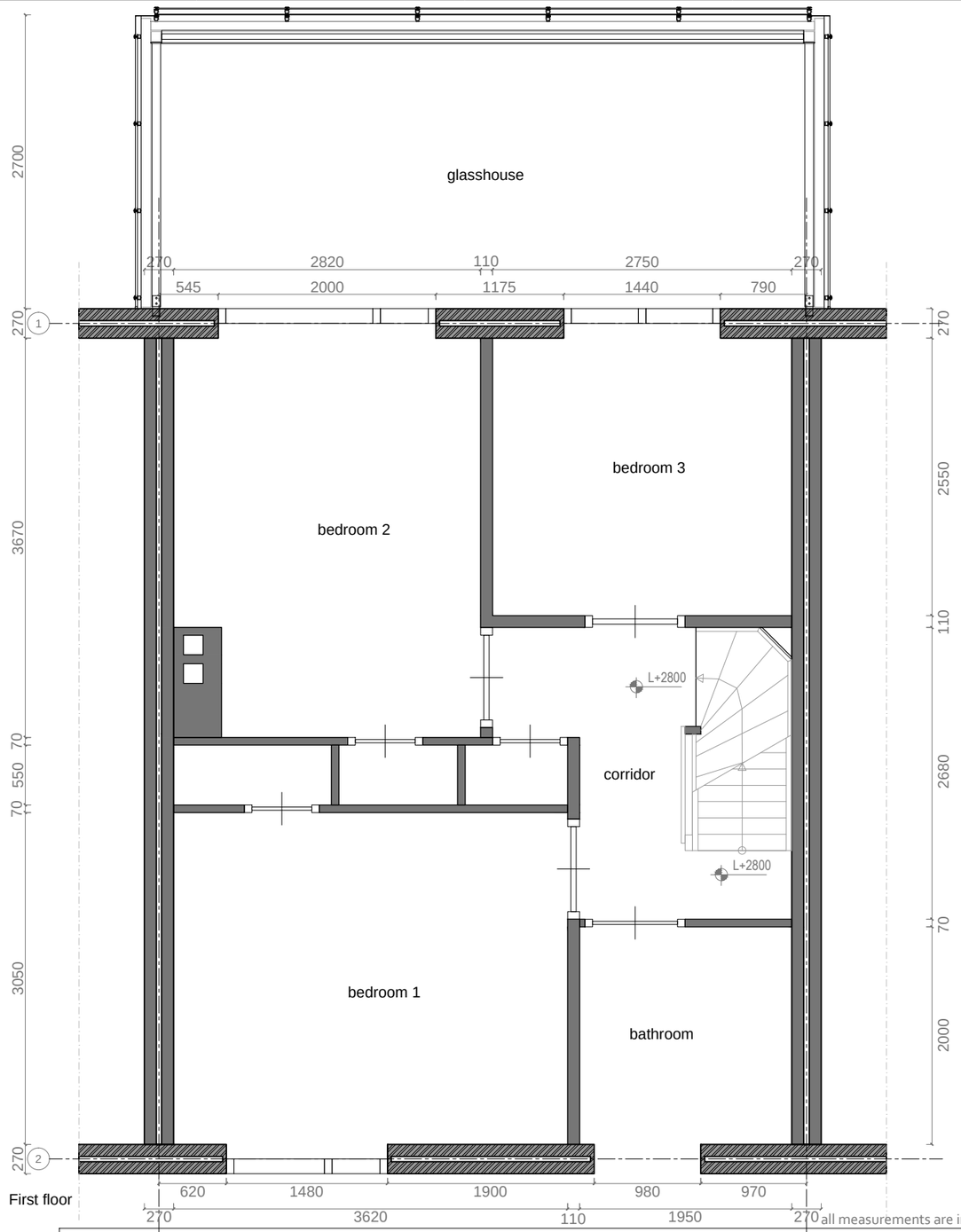
Fundation

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: STOMPERSDIJK, HONSELERSDIJK, NL	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 --.--.---- - / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:50/100
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: existing building drawings GROUND FLOOR	Drawing Code: GE-323

A3





all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	STOMPERSDIJK 10, HONSELERSDIJK, NL
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	House with SKIN GROUND & FIRST FLOOR

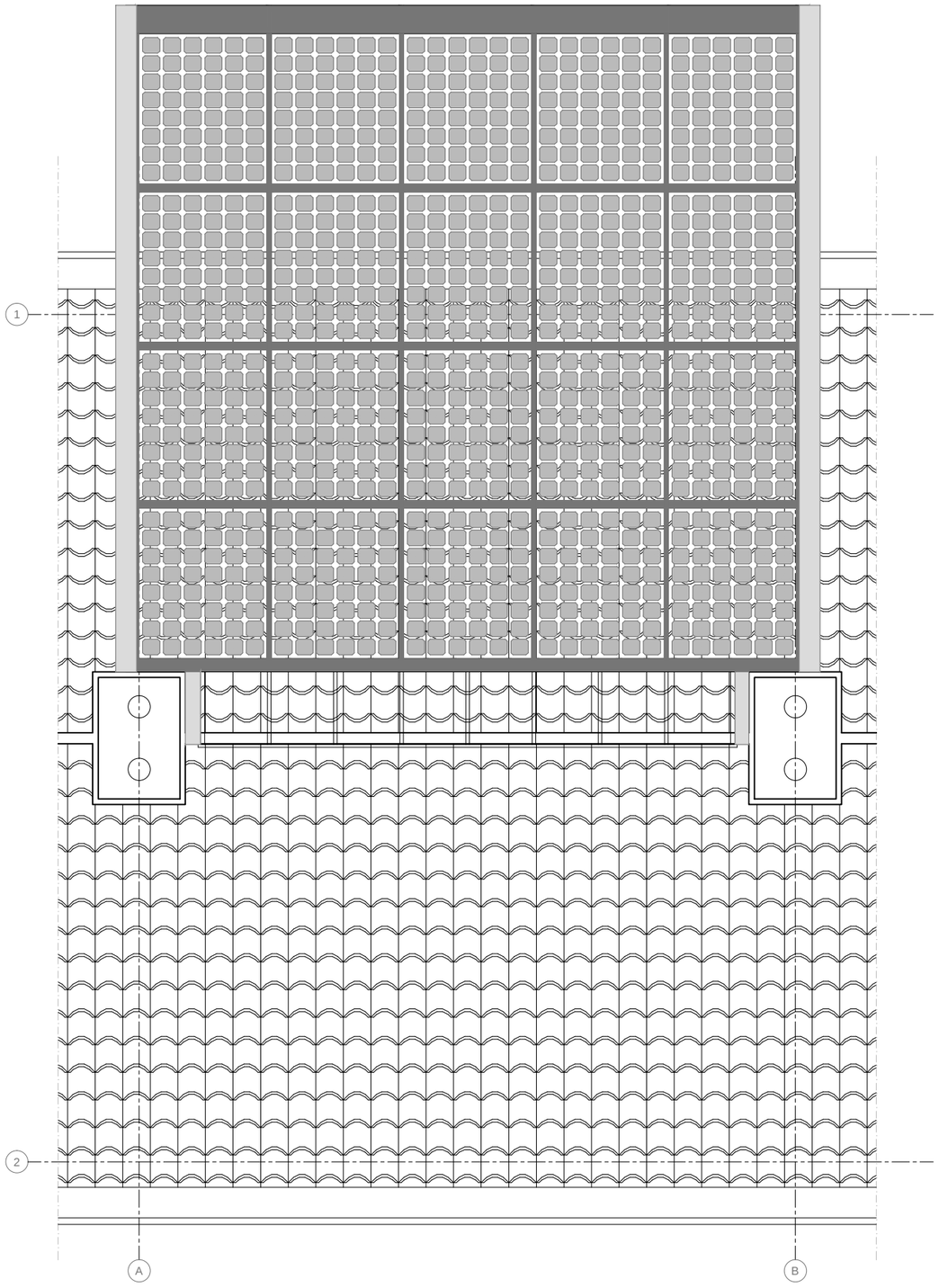
Revisions		
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	DEL #6
1	03.03.2014	DEL #4

Paper Size: A3

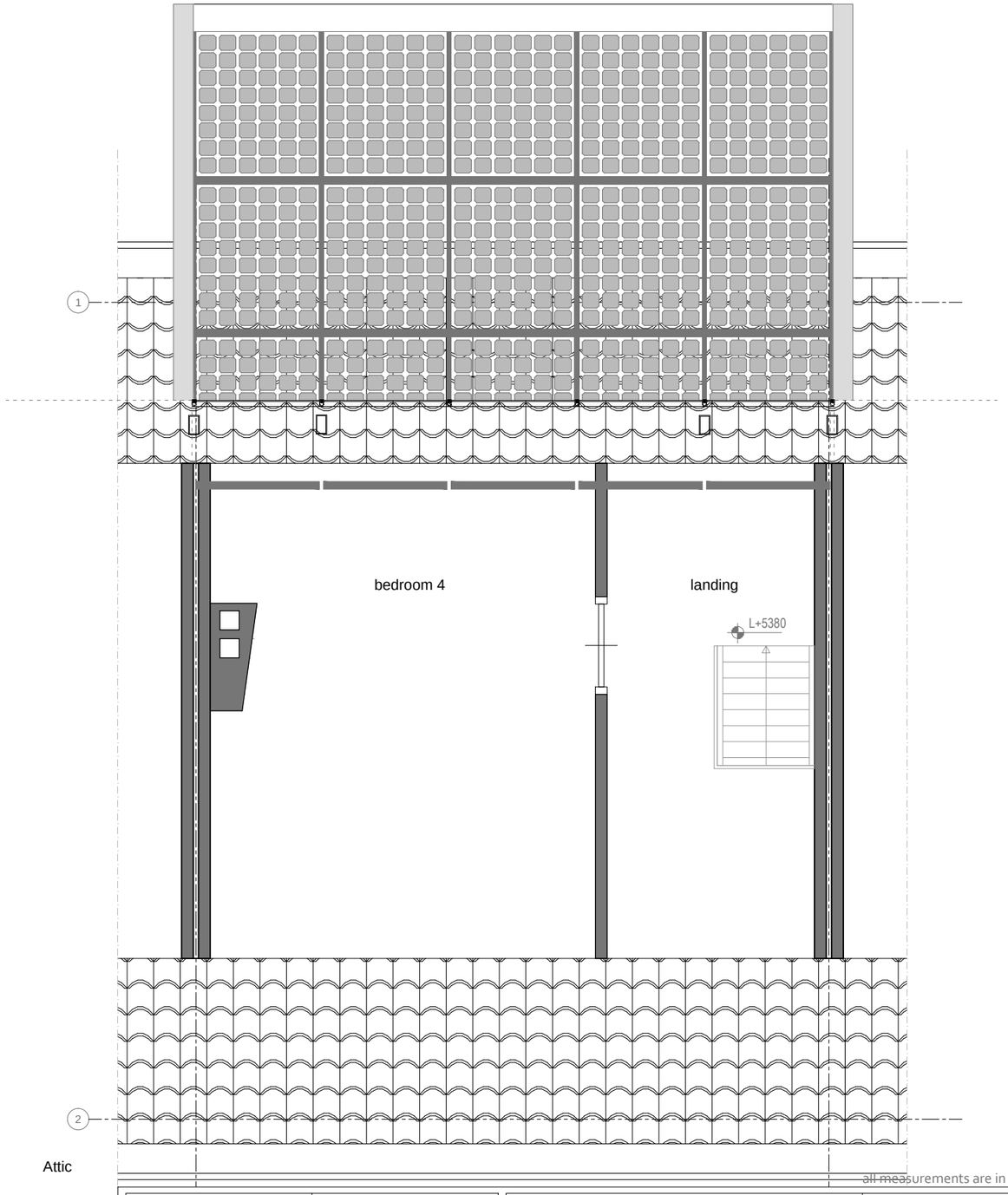
Drawing Scale: 1:50

Drawing Code: **GE-324**

A3



Roofplan

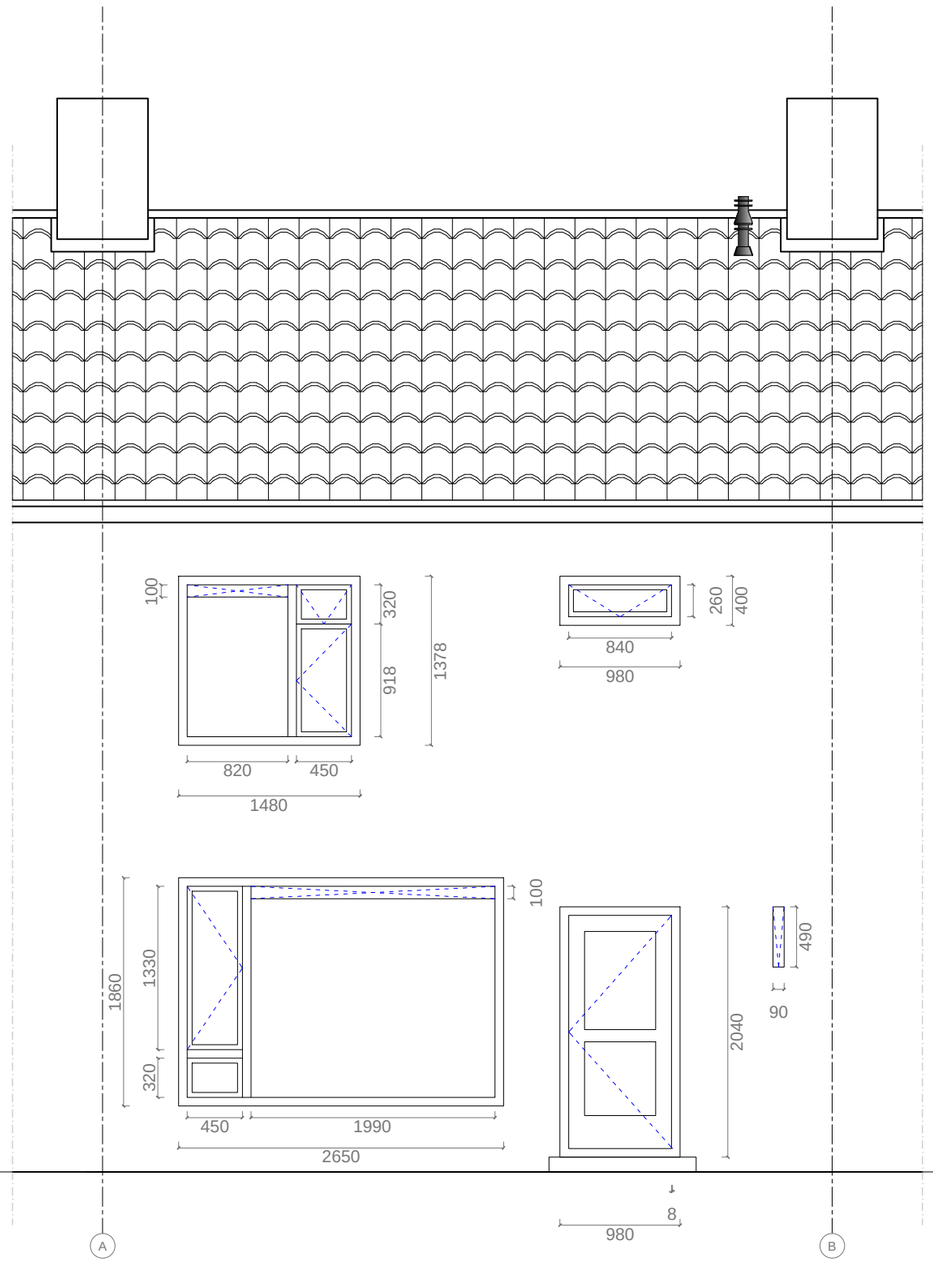


Attic

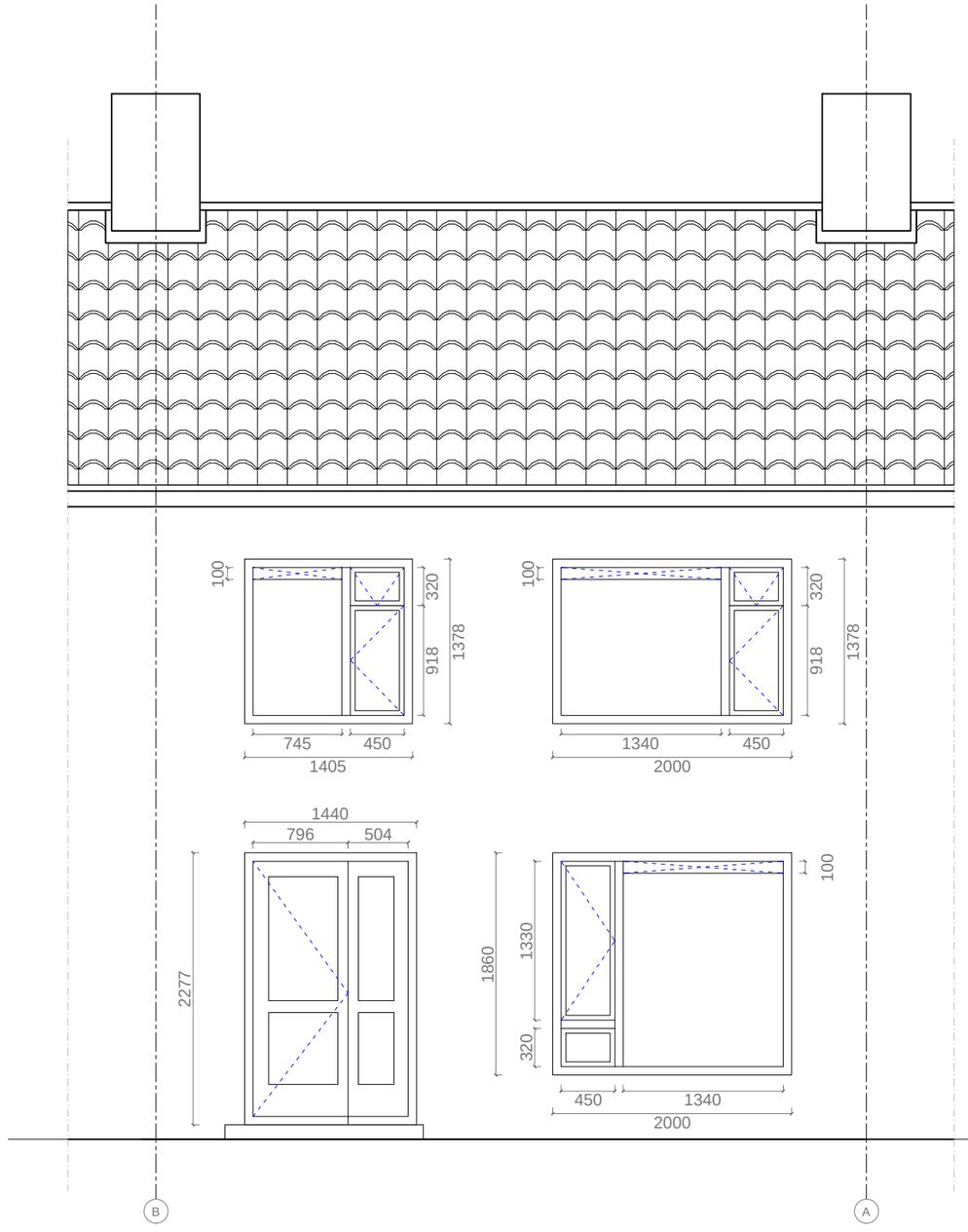
all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: STOMPERSDIJK 10, HONSELERSDIJK, NL	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 31.05.2014 DEL #6 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: House with SKIN ATTIC &ROOF PLAN	Drawing Code: GE-325

A3



Front facade (north-west)



Back facade (south-east)

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: STOMPERSDIJK 10, HONSELERSDIJK, NL	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: House with SKIN FRONT & BACK ELEVATIONS	

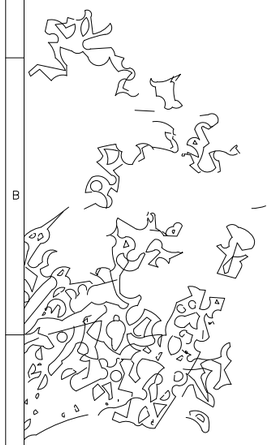
Revisions		
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	DEL #6
1	03.03.2014	DEL #4

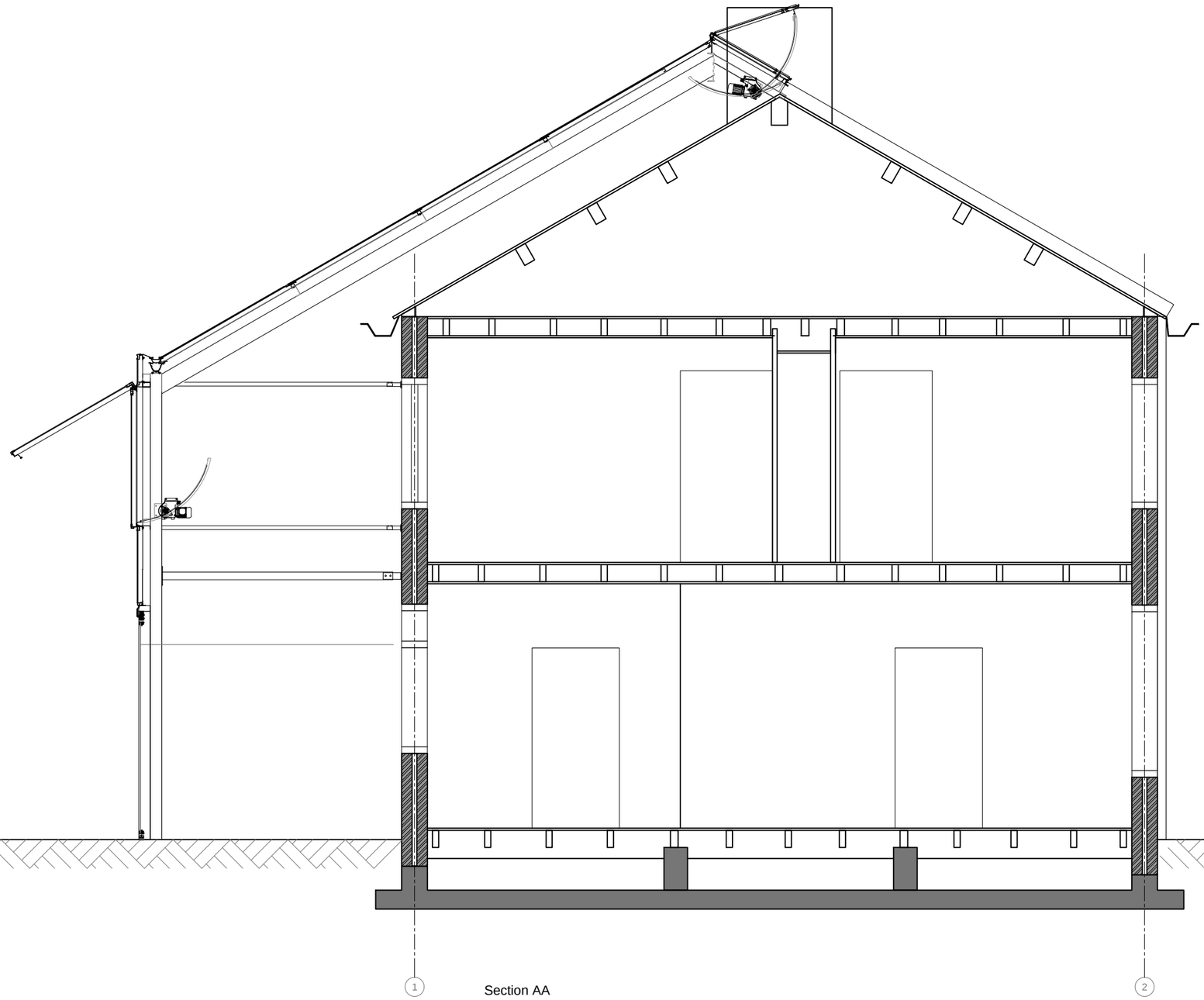
Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **GE-326**

A3





Section AA

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: STOMPERSDIJK 10, HONSELERSDIJK, NL	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: GENERAL DRAWINGS	
Drawing Subject: House with SKIN SECTION	

Revisions

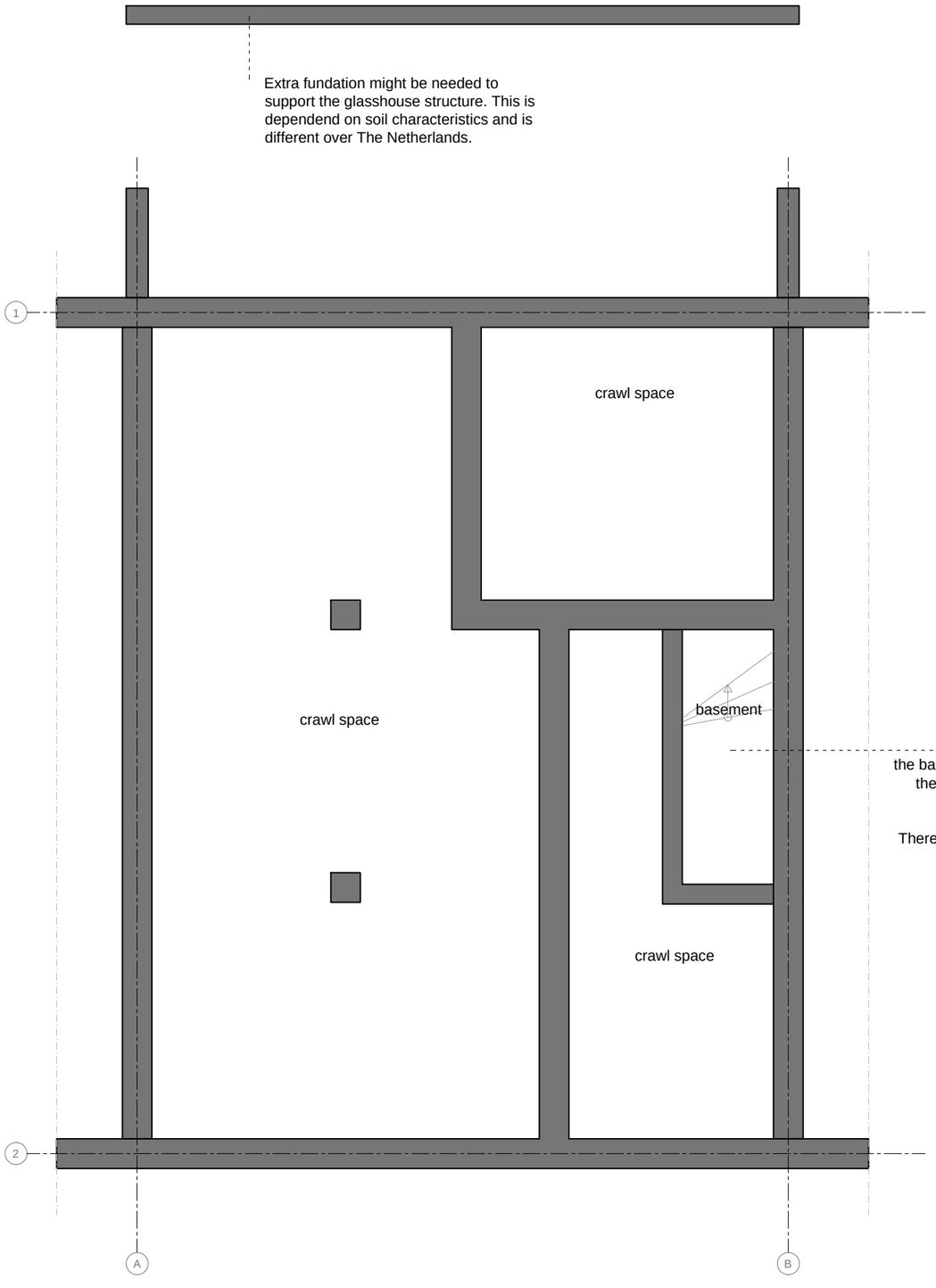
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	DEL #6
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **GE-327**

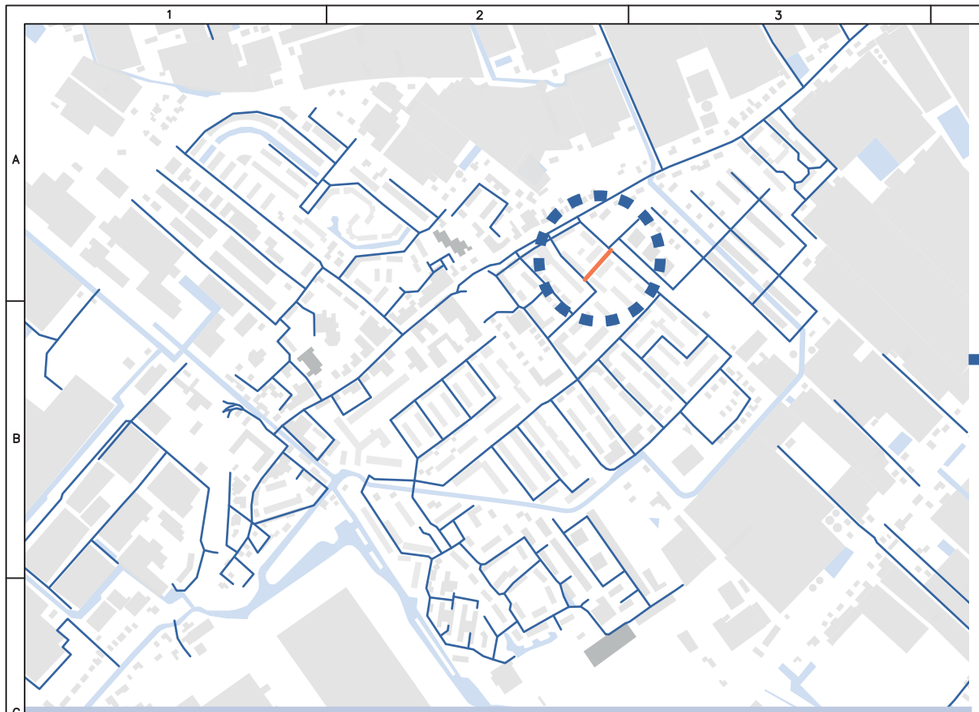
A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: STOMPERSDIJK 10, HONSELERSDIJK, NL	Revisions: 4 --.--.---- - ; 3 --.--.---- - ; 2 31.05.2014 DEL #6 ; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: House with SKIN FOUNDATION LEVEL	Drawing Code: GE-328

A3



The urban context is Honselerdijk a town in the Westland of Holland



Focussing on the street Stompersdijk: location of the case study



The home of Dennis his family

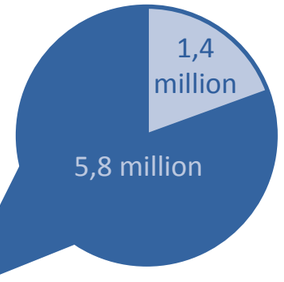
75% of building stock under skin

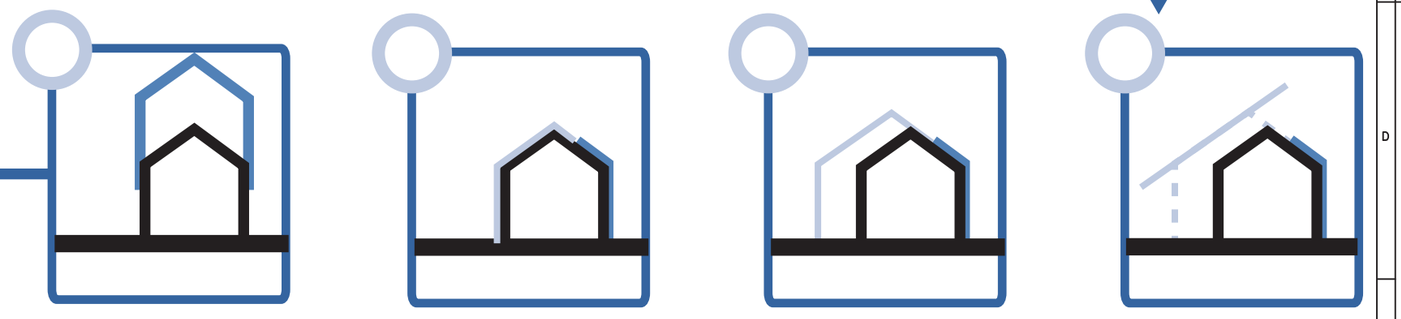
330 houses / neighbourhood
1316 houses / town

3,630 mWh/year /NEIGHBOURHOOD
14,500 mWh/year/TOWN
9,300 m3/year/NEIGHBOURHOOD
37,000 m3/year/TOWN



With the application of the ‘skin’ Honselersdijk becomes sustainable from a bottom-up approach: also to be implemented on the 1,4 million post-war Dutch row houses, facing the biggest sustainable challenge of Holland.





Putting over a skin: improving your house, preserving your home

Improving climate performance by designing with orientation

Improving spatial performance by creating extra space

Optimizing the overall performance by making it adaptable

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	COMPETITION DWELLING

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.a.
Drawing Code	GE-330

A3

1 The main difference between the competition pavilion and the original renovation in Honselersdijk is the materialization. The original house is made of brick, while the pavilion is constructed of prefab HSB panels. This is done to have it built in 10 days. In spite of this difference in material the pavilion visually represents the original building as much as possible, by applying brick slips to the HSB panels.

2 To show that the pavilion represents the row house of Honselersdijk, on both sides a part of the neighbour's house is presented: really showing a slice of a row house. On the inside of these walls, one can see the interior finishing and furniture of the neighbours in a typical Dutch interior style. Also the interior of the pavilion itself is designed in the style of a 'common' Dutch family. After all we present a sustainable solution that is affordable for the average Dutch family.

3 In the 'cut' sections on the side of the pavilion even the original detailing of the flooring is represented: wooden floors with wooden beams.

4 The original house in Honselersdijk contains a crawl space, which also plays an important role in the climate design. In the competition pavilion the crawl space is also presented by lifting the complete building, including the garden, 850mm.

5 The original house of Honselersdijk is down scaled in total tot comply with the competition rules and fit within the solar envelope. This resulted in removing one floor level. However the original facade design is respected as much as possible. Also the greenhouse is smaller than it would be in Honselersdijk.

6 One of the typical features of the post-war Dutch row house typology is the chimneys. In the renovation they are an essential element in the climate design. These elements are also presented in the competition pavilion and function in the same way.



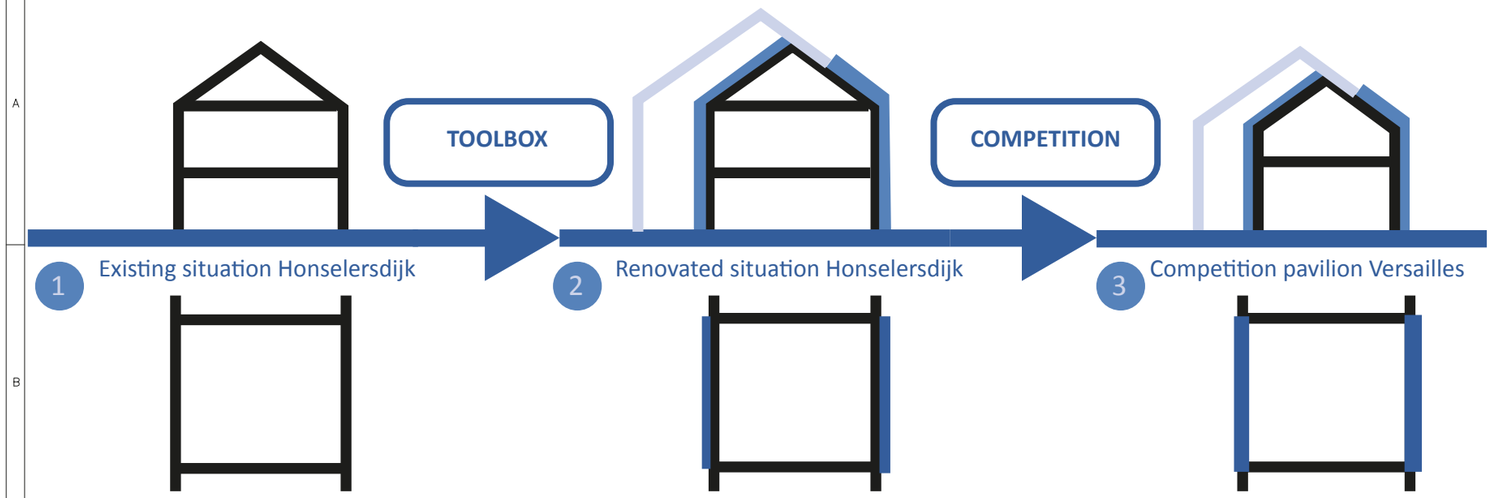


The overall approach of the project is from the exisitng situation in Honselersdijk (1). By creating a toolbox, people can compose their own renovation, so sustainability becomes attractive and the element of identity will be preserved. From this toolbox we picked one composition to show in Versailles: 'Home with a Skin.'(2) This exact story is also represented as much as possible by the competition pavilion. (3)

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

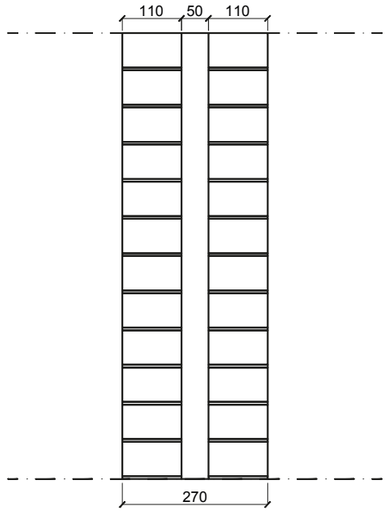
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- -; 3 --.--.---- -; 2 --.--.---- -; 1 03.03.2014 DEL #4
Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
Drawing Block: GENERAL DRAWINGS	Drawing Scale: n.a.
Drawing Subject: COMPETITION DWELLING	Drawing Code: GE-331

A3

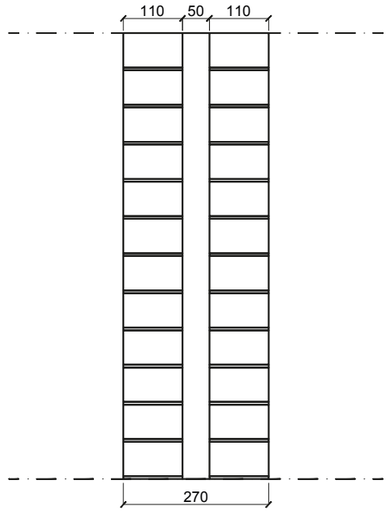


The overall approach of the project is from the exisitng situation in Honselersdijk (1). By creating a toolbox, people can compose their own renovation, so sustainability becomes attractive and the element of identity will be preserved. From this toolbox we picked one composition to show in Versailles: 'Home with a Skin.'(2) This exact story is also represented as much as possible by the competition pavilion. (3)

Sun side

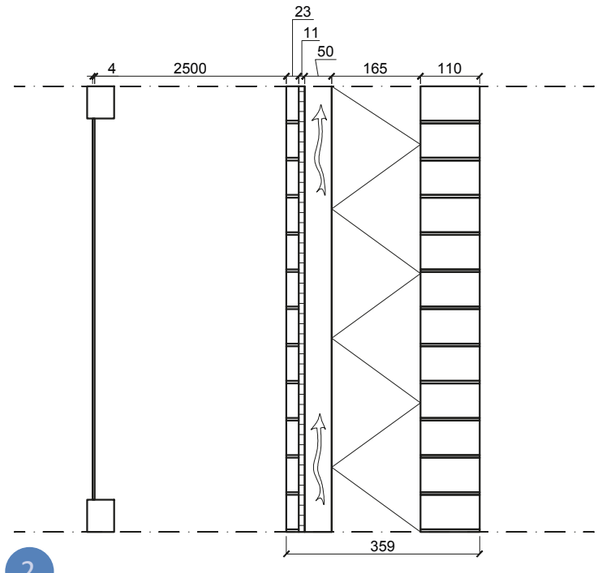


Cold side

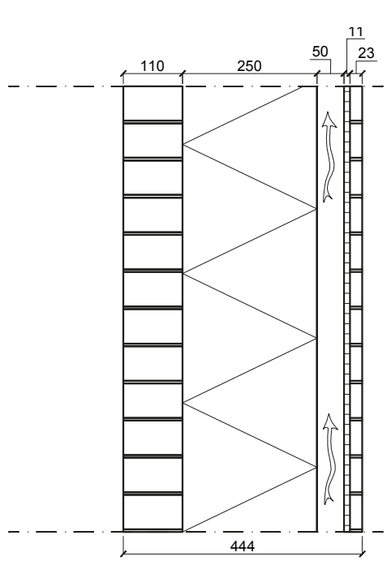


1 In the existing situation in Honselersdijk, the walls are uninsulated cavity walls of only 270 mm thickness.

Sun side

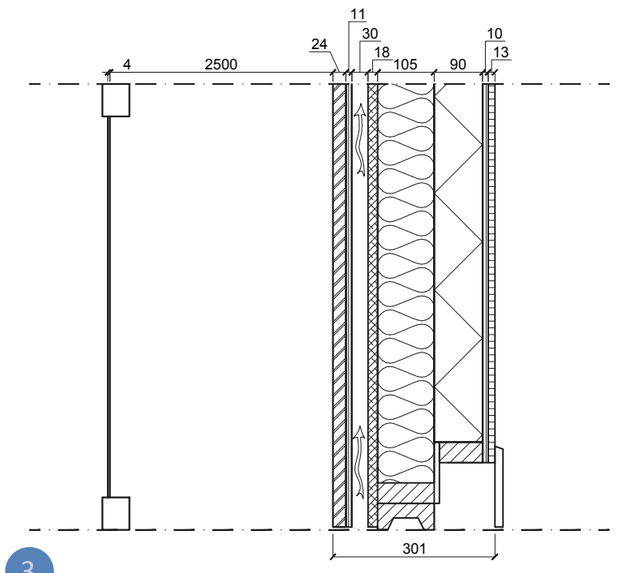


Cold side

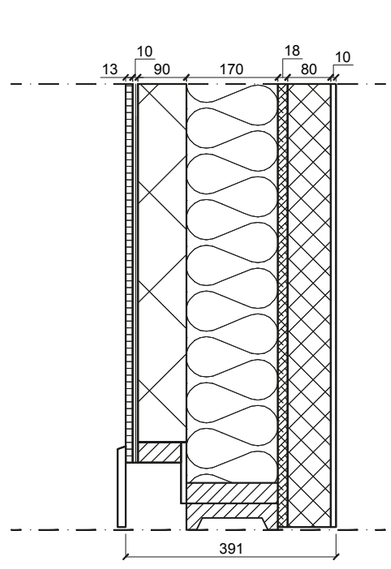


2 In the renovation in Honselersdijk the outer brick slips are removed and a layer of insulation is added to improve the climate performance of the house. On the sun side also a layer of single glazing is added to create a buffer zone and to provide extra space

Sun side



Cold side



3 In the competition pavilion this is visually represented in the detailing of the wall using brick slips and showing a difference in thickness between both walls, even though the materials are different: HSB.

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 --.--.---- - / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: n.a.
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: COMPETITION DWELLING	Drawing Code: GE-332

A3



Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	EXTERIOR RENDERINGS

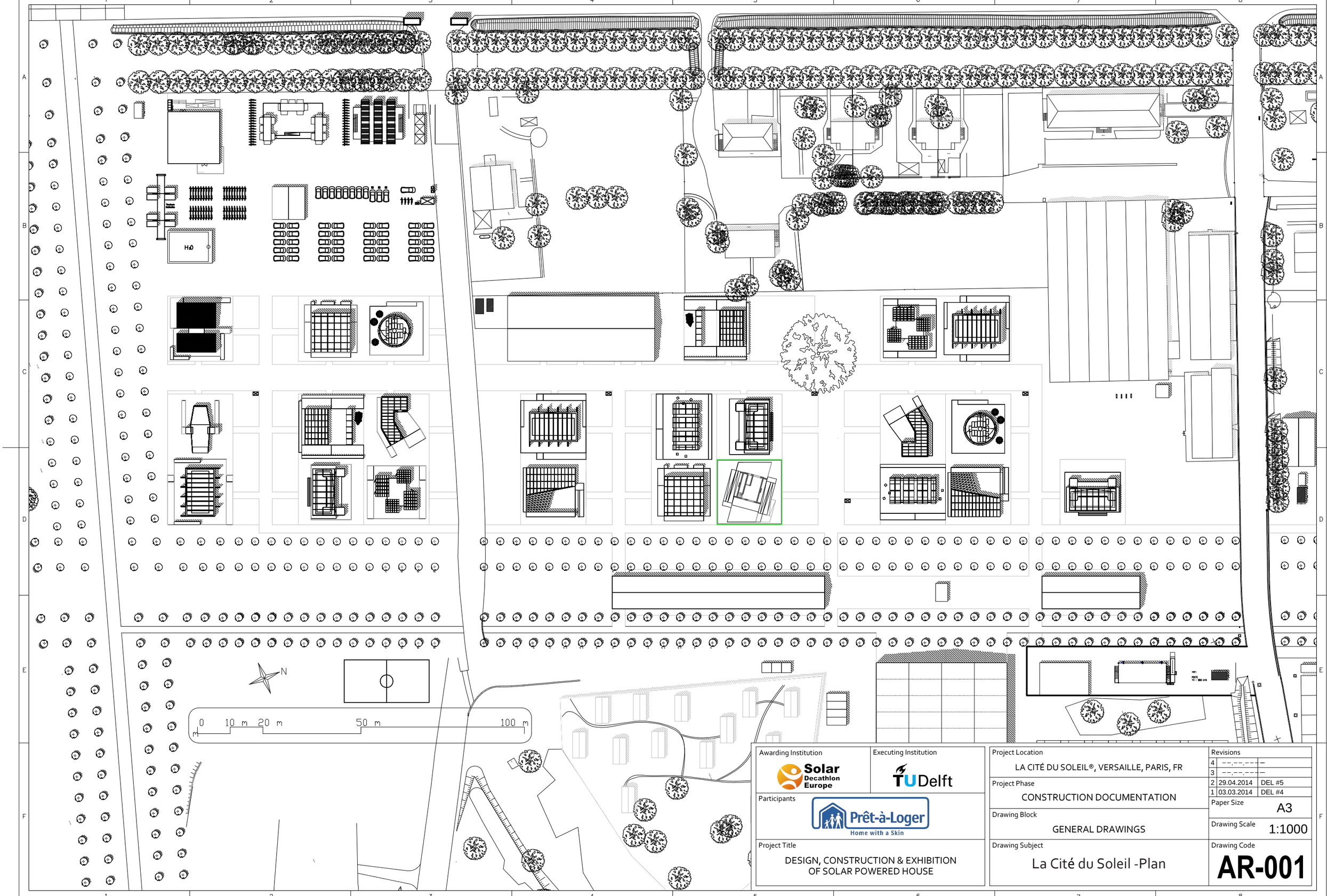
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: n.a.

Drawing Code: **GE-401**

A3



Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	La Cité du Soleil -Plan

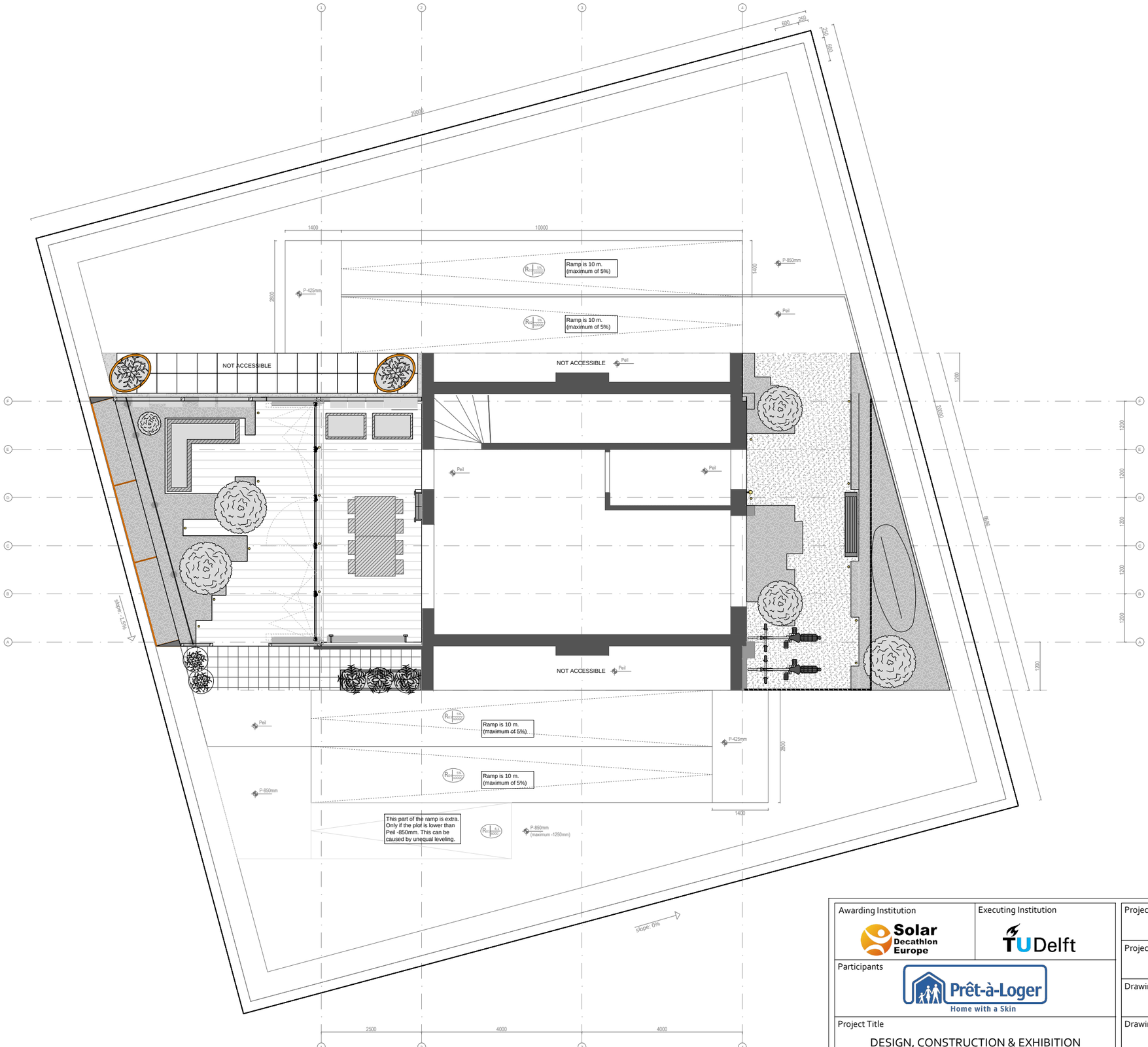
Revisions		
4	--.--.----	
3	--.--.----	
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:1000

Drawing Code: **AR-001**

A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: SITE PLAN	

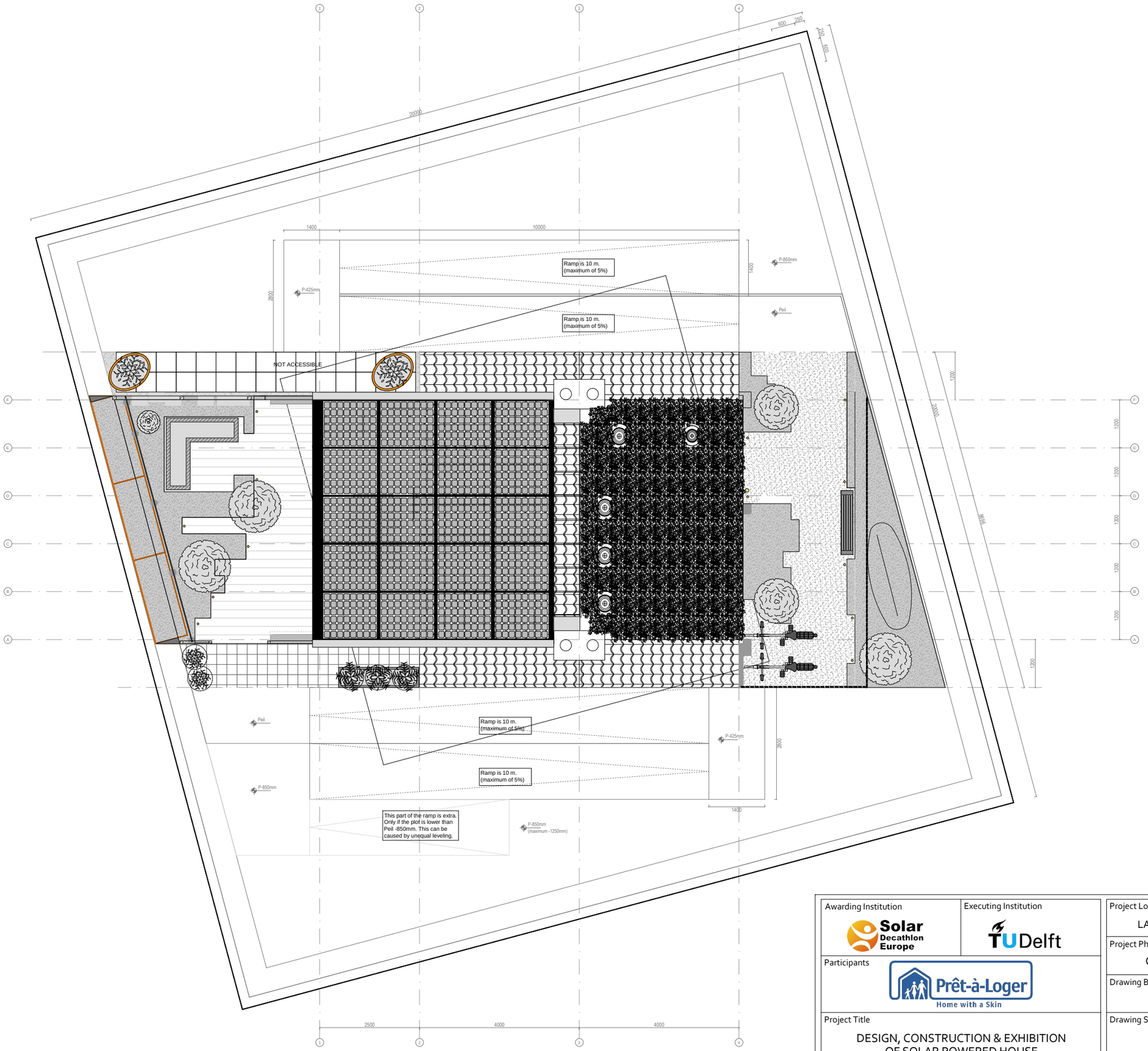
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

Drawing Code: **AR-002**

A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: SITE PLAN TOP VIEW	

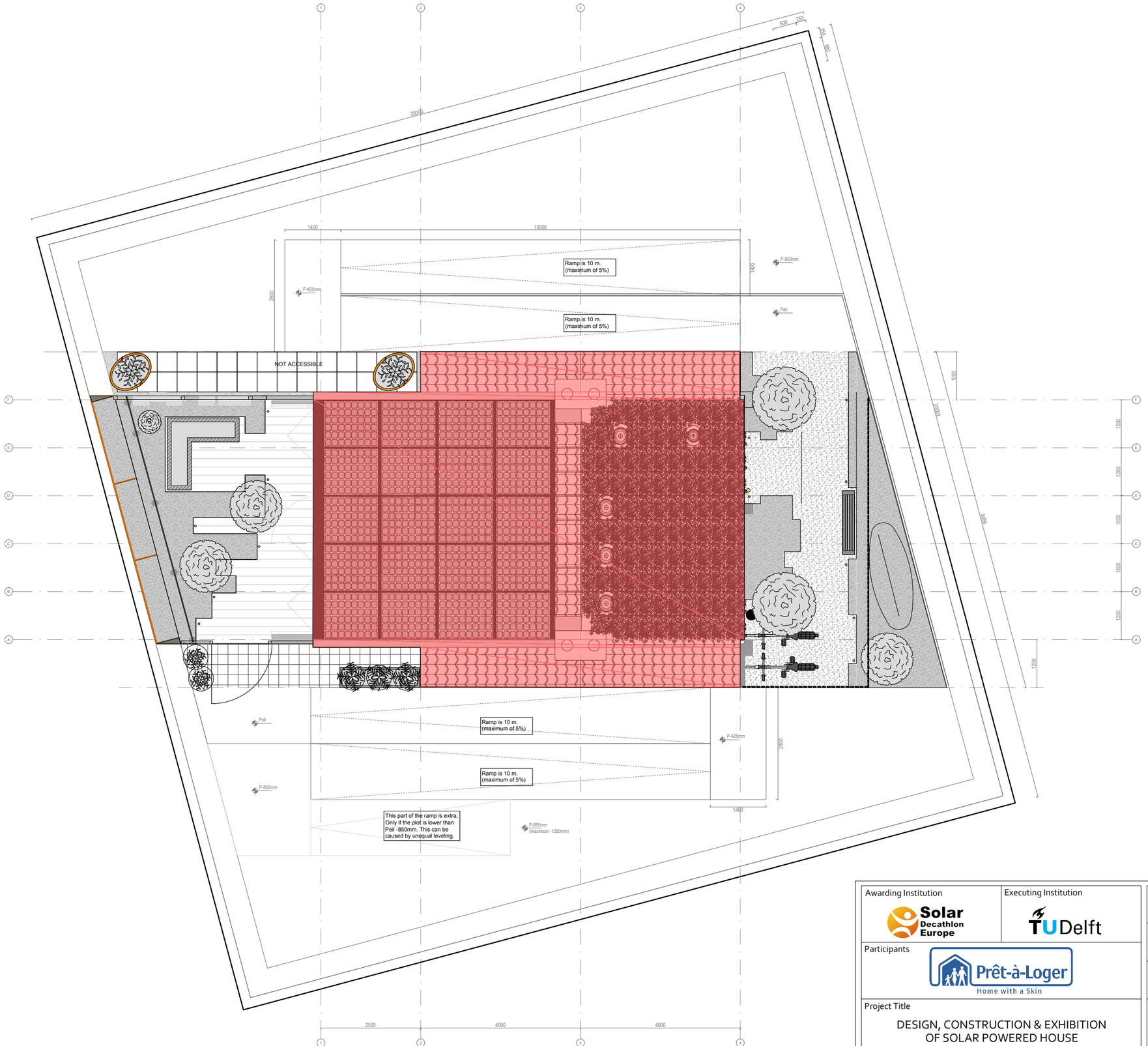
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

Drawing Code: **AR-003**

A3



---INFORMATION---

Architectural footprint:
85m2 <150m2

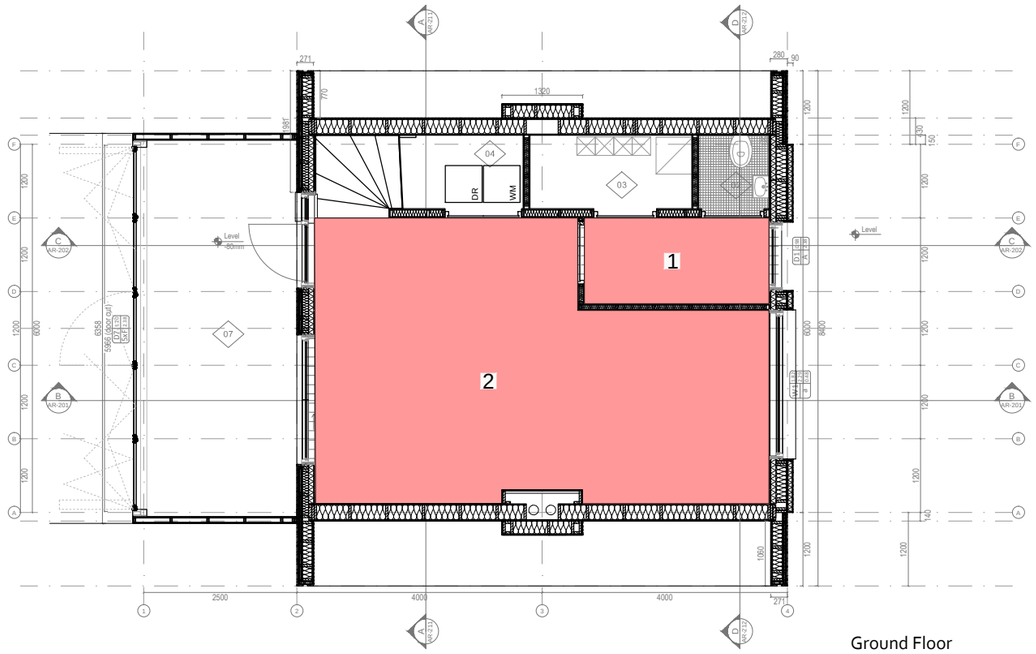
all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: ARCHITECTURAL FOOTPRINT	

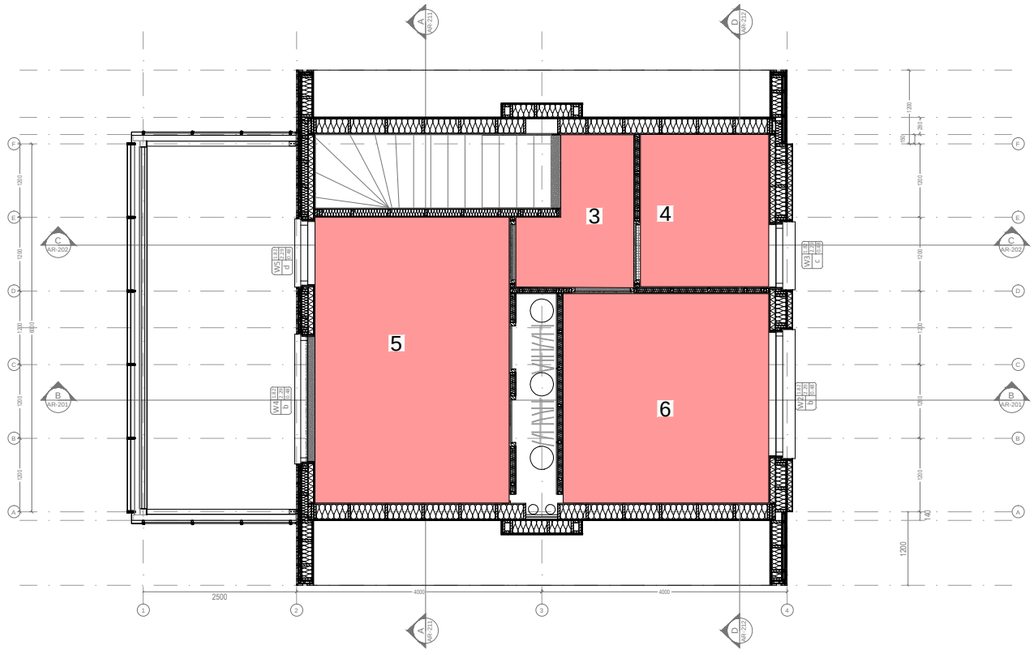
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3
Drawing Scale: 1:100
Drawing Code: AR-014

A3



Ground Floor



First Floor

---INFORMATION---

Ground floor

	Netto m²
1. Entrance	4,2
2. Livingroom	29,5
Total	33,7

First Floor

3. Hall	3,8
4. Bathroom	5,2
5. Bedroom 1	14,8
6. Modelroom	11,4
Total	35,2
TOTAL	68,9m²

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	MEASURABLE AREA

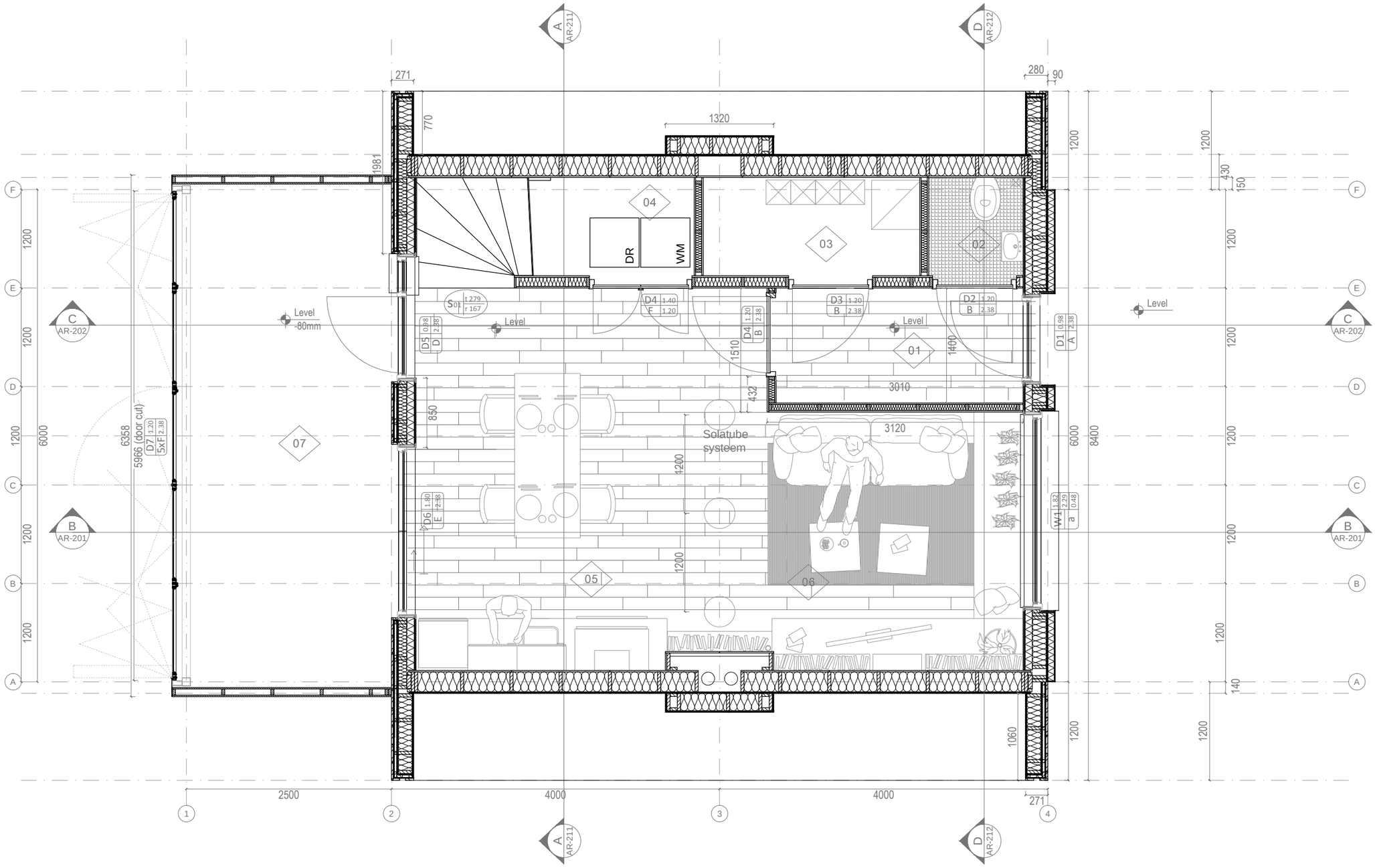
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

Drawing Code: **AR-017**

A3



---INFORMATION---

1. Entrance
2. Toilet
3. Monitoring room
4. Wash room
5. Kitchen
6. Livingroom
7. Greenhouse

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	GROUND FLOOR PLAN

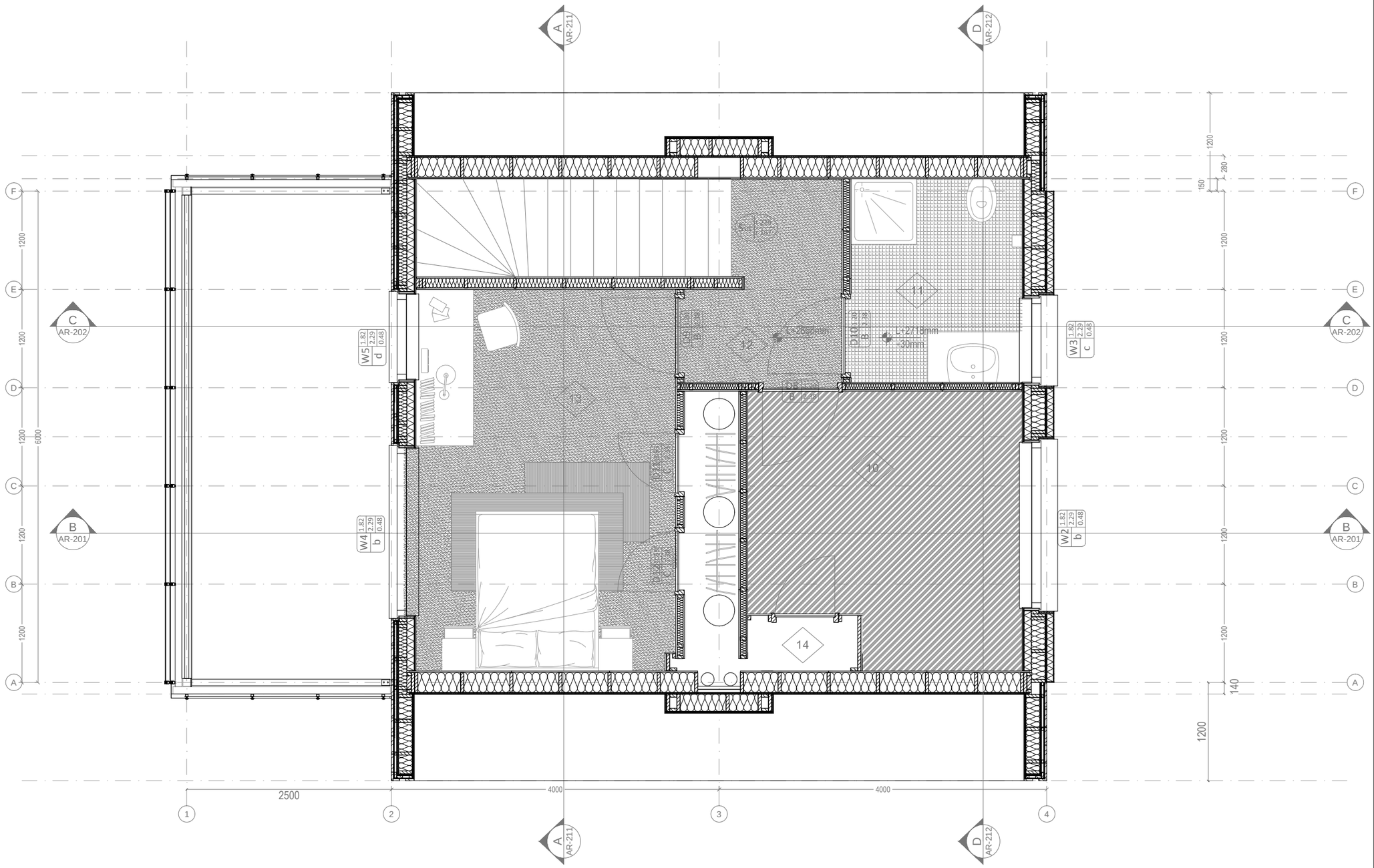
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-021**

A3



---INFORMATION---

10. Modelroom
11. Bathroom
12. Stairlanding
13. Bedroom 1
14. MVHR-storage

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: FIRST FLOOR PLAN	

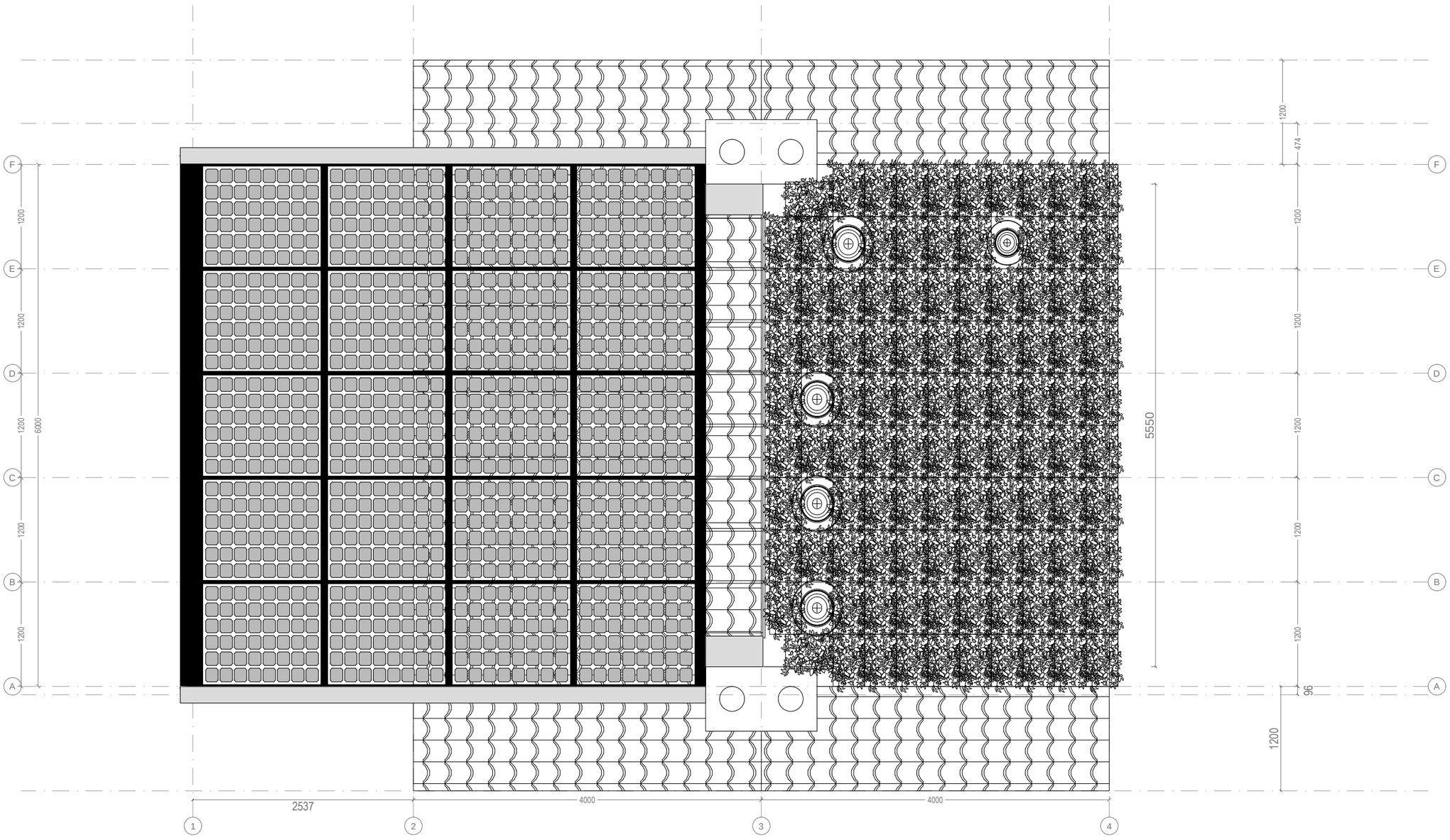
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-022**

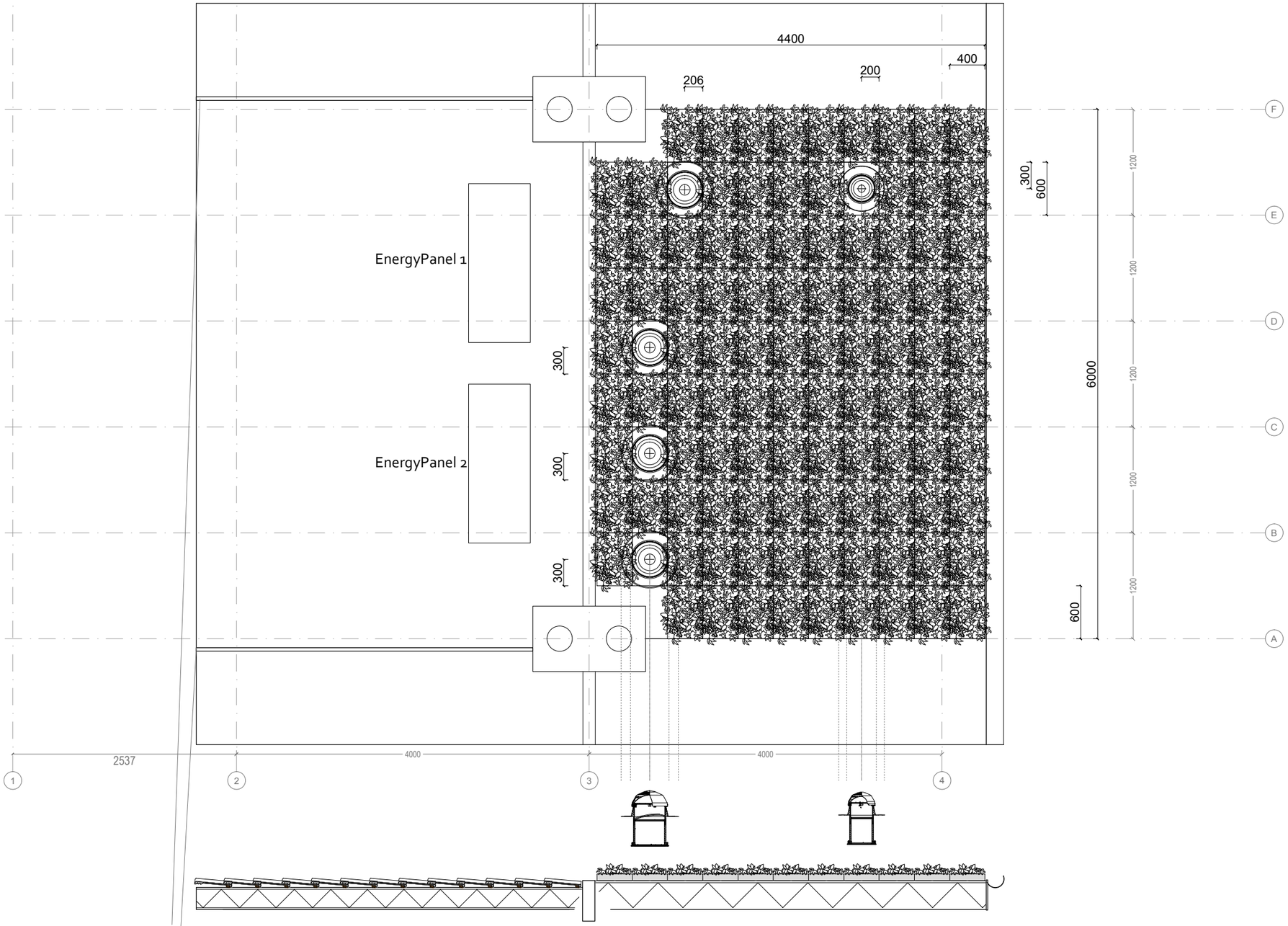
A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - ; 3 --.--.---- - ; 2 29.04.2014 DEL #5 ; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ROOF PLAN	Drawing Code: **AR-031**

A3



Two beams to connect side panels of greenhouse to roof.

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: ROOF PLAN PARALLEL PROJECTED	

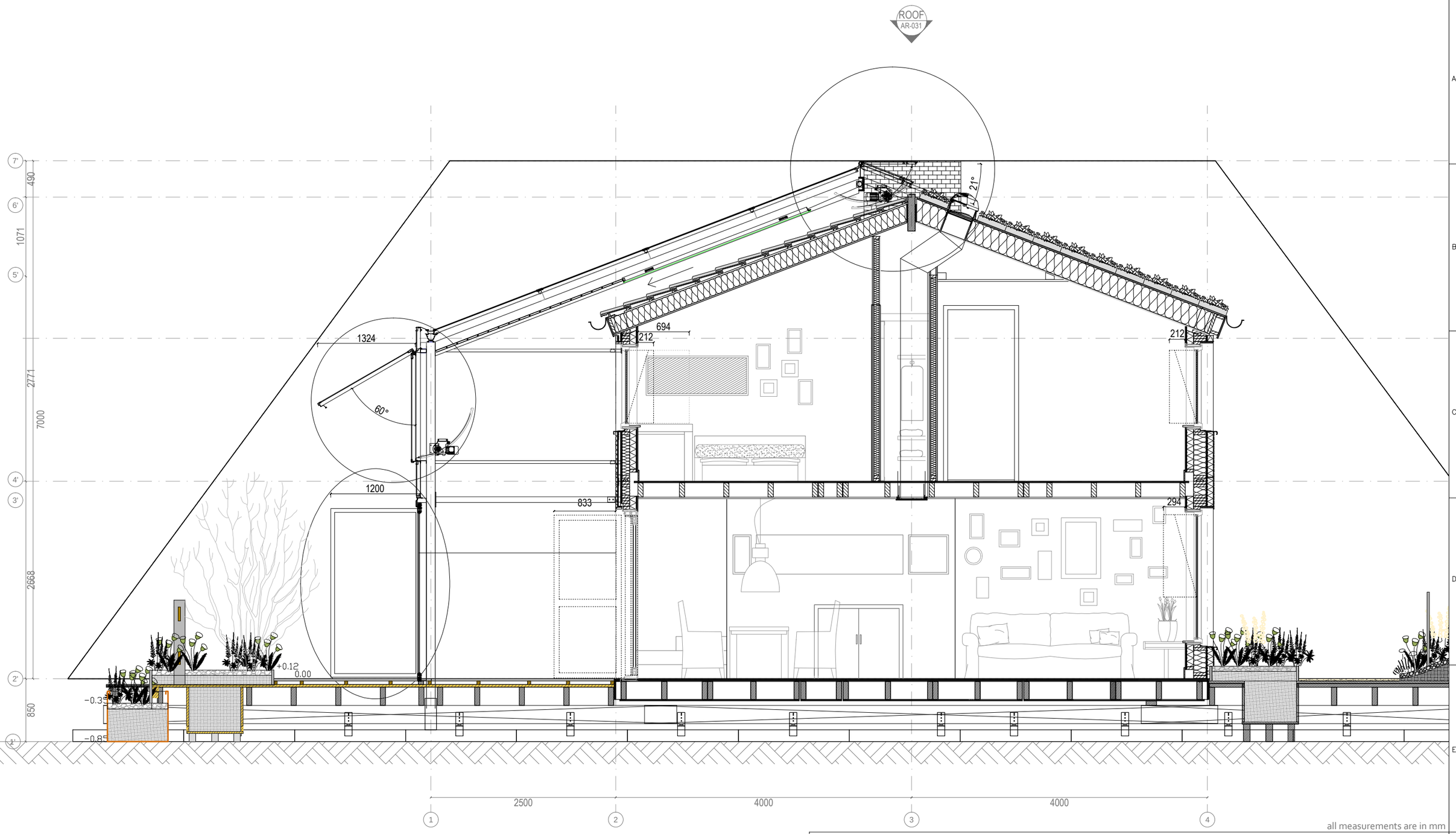
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-032**

A3



all measurements are in mm

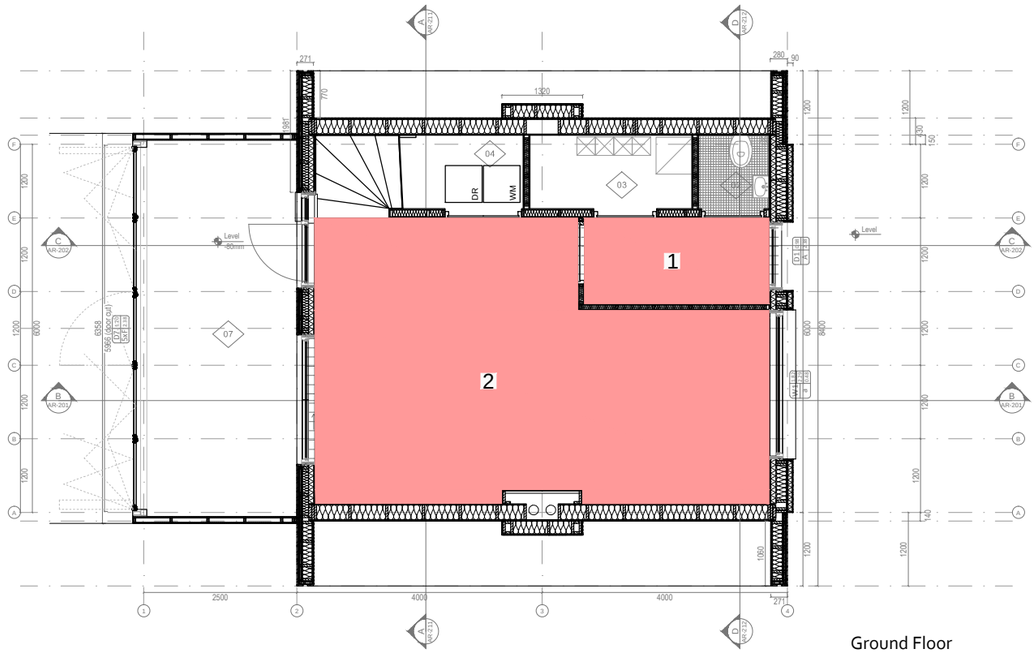
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: RECONFIGURABLE FEATURES	

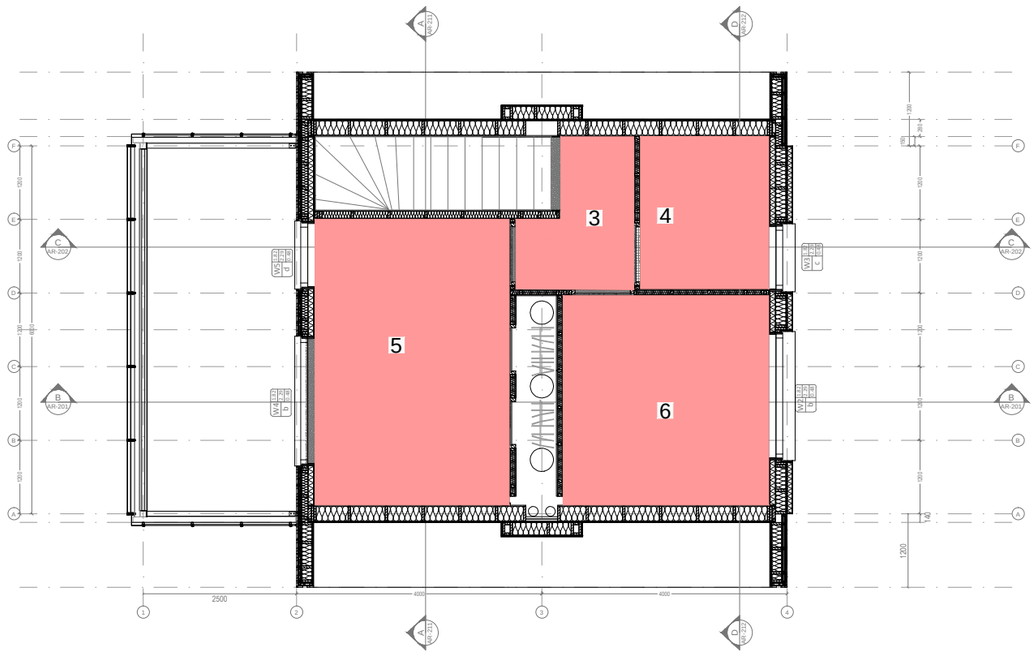
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	**AR-041**

A3



Ground Floor



First Floor

---INFORMATION---

Ground floor

	Netto m²
1. Entrance	4,2
2. Livingroom	29,5
Total	33,7

First Floor

3. Hall	3,8
4. Bathroom	5,2
5. Bedroom 1	14,8
6. Modelroom	11,4
Total	35,2
TOTAL	68,9m²

all measurements are in mm

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: ARCHITECTURAL DRAWINGS

Drawing Subject: MEASURABLE AREA

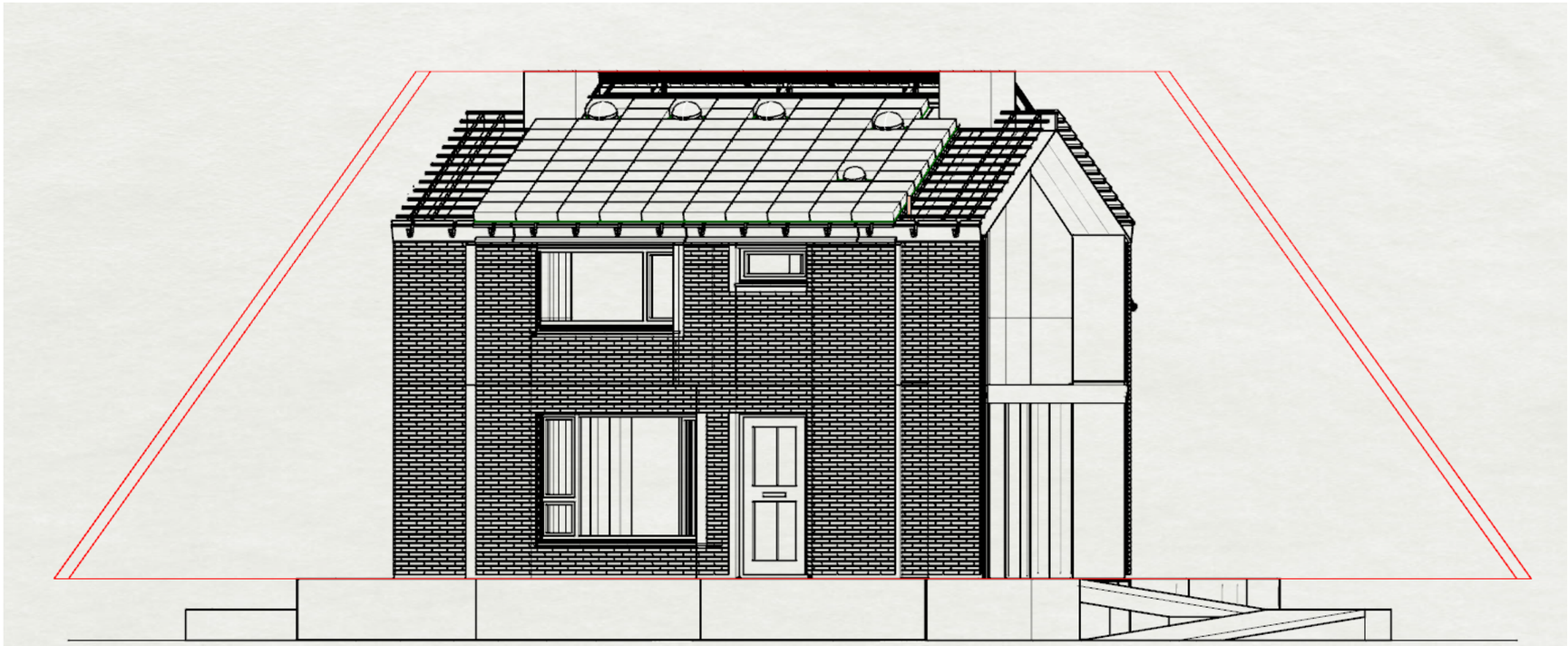
Revisions		
4	--.--.----	-
3	31.05.2014	DEL #6
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

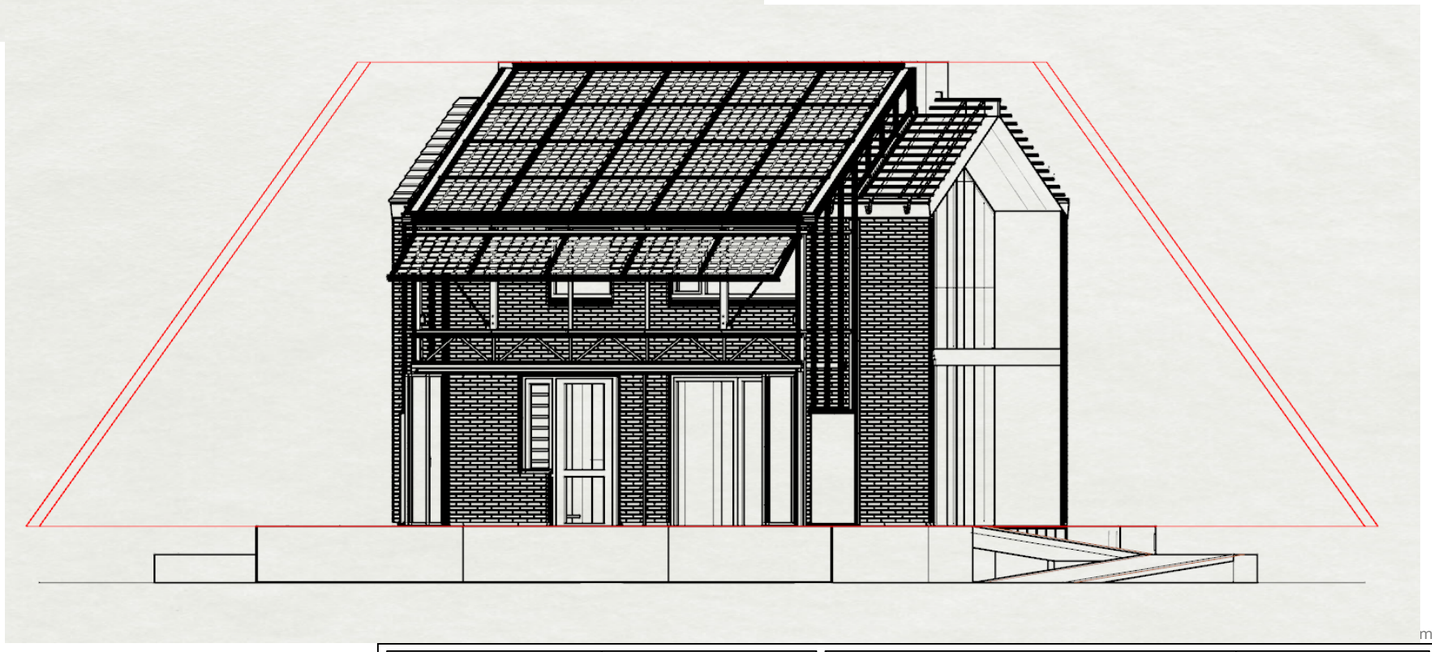
Drawing Code: **AR-051**

A3



South-East view

North-West view



Outer red line: solar envelope. Inner red line 100mm offset.

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	SITE ELEVATIONS

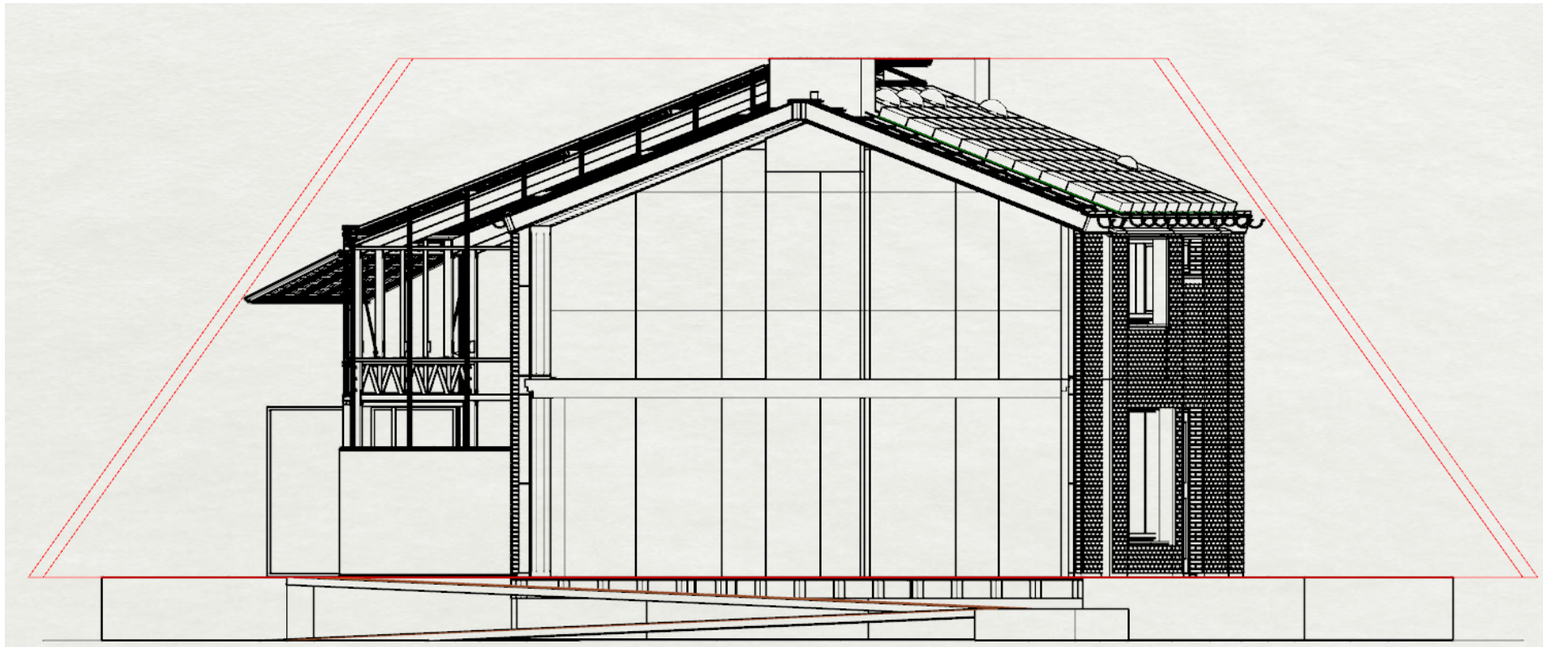
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

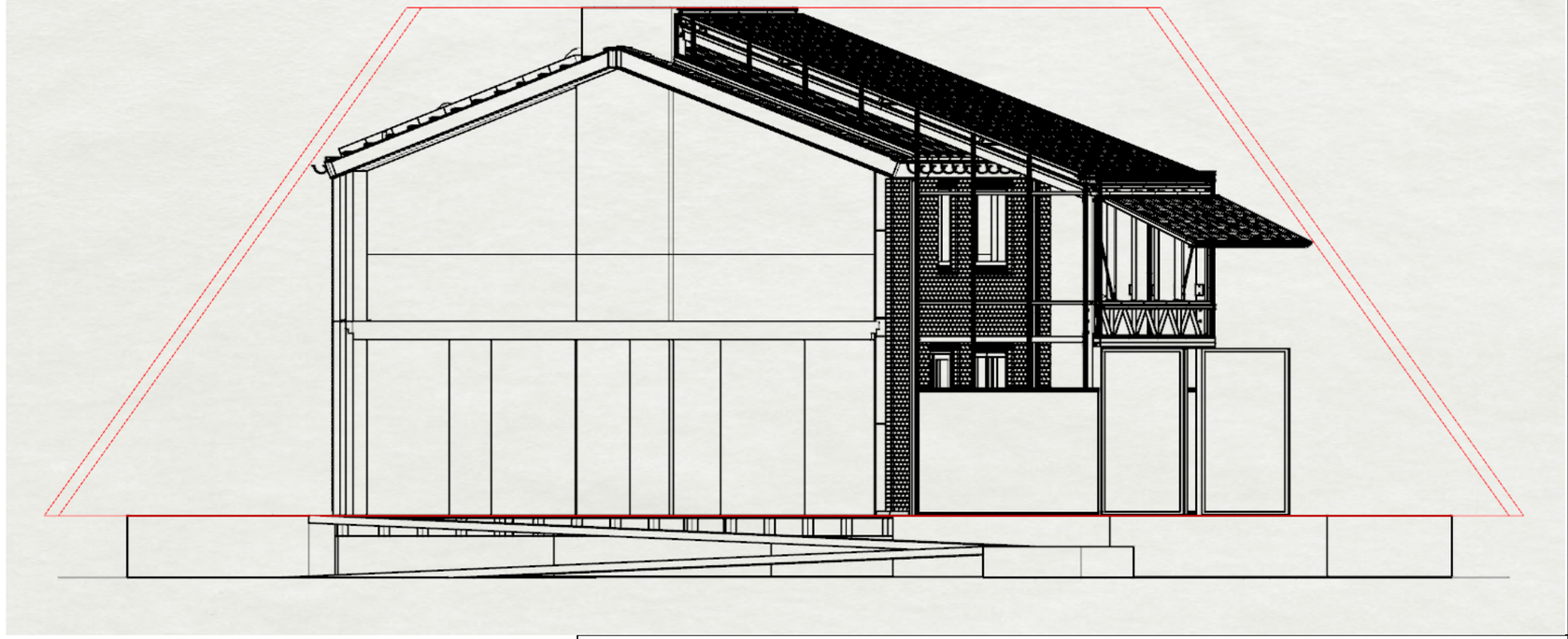
Drawing Scale: ____

Drawing Code: **AR-101**

A3



South-West view

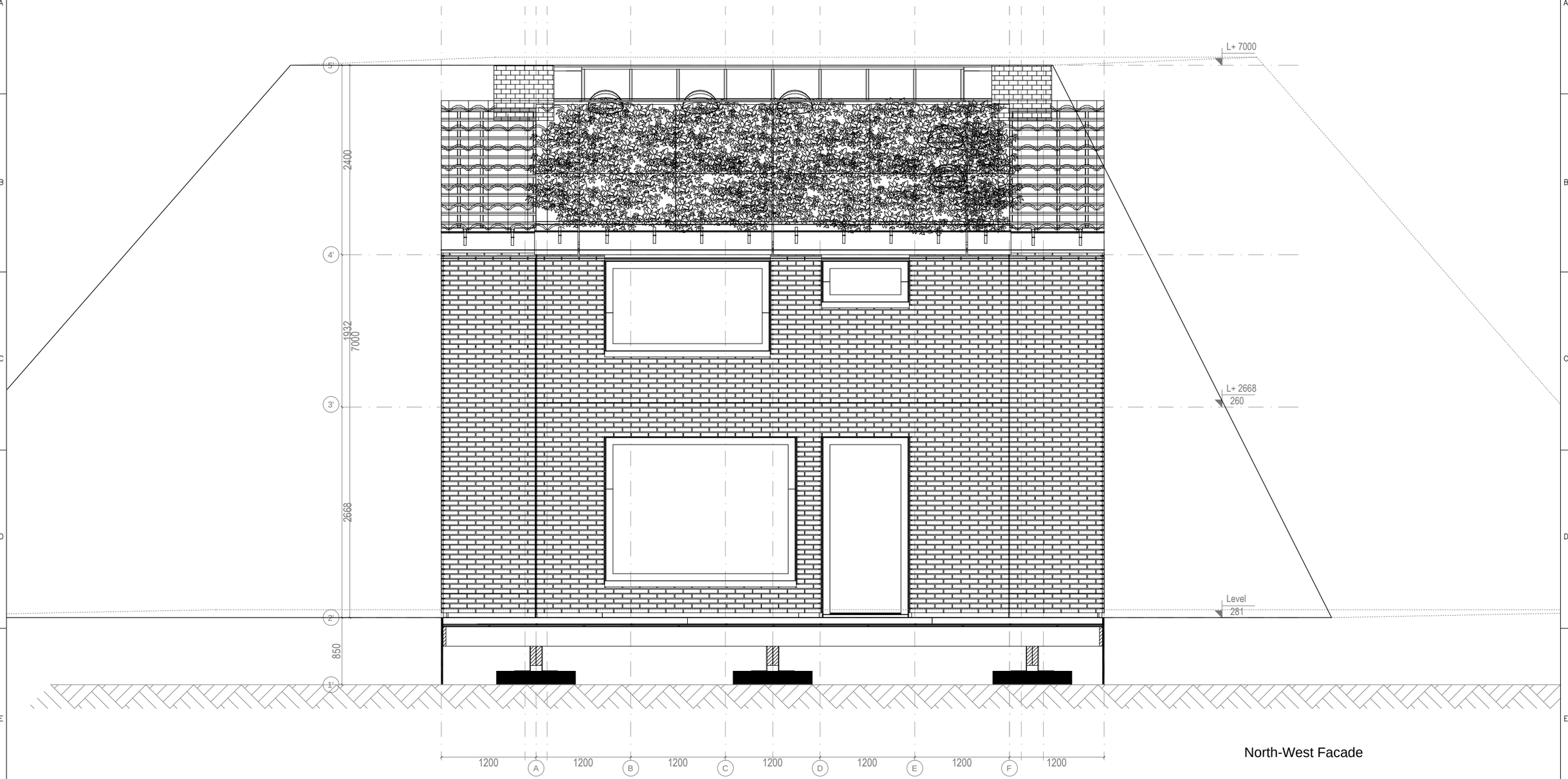


North-East view

Outer red line: solar envelope. Inner red line 100mm offset.

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	Drawing Subject: SITE ELEVATIONS
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - ; 3 --.--.---- - ; 2 29.04.2014 DEL #5 ; 1 03.03.2014 DEL #4
Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: ___
	Drawing Code: AR-102

A3



North-West Facade

all measurements are in mm

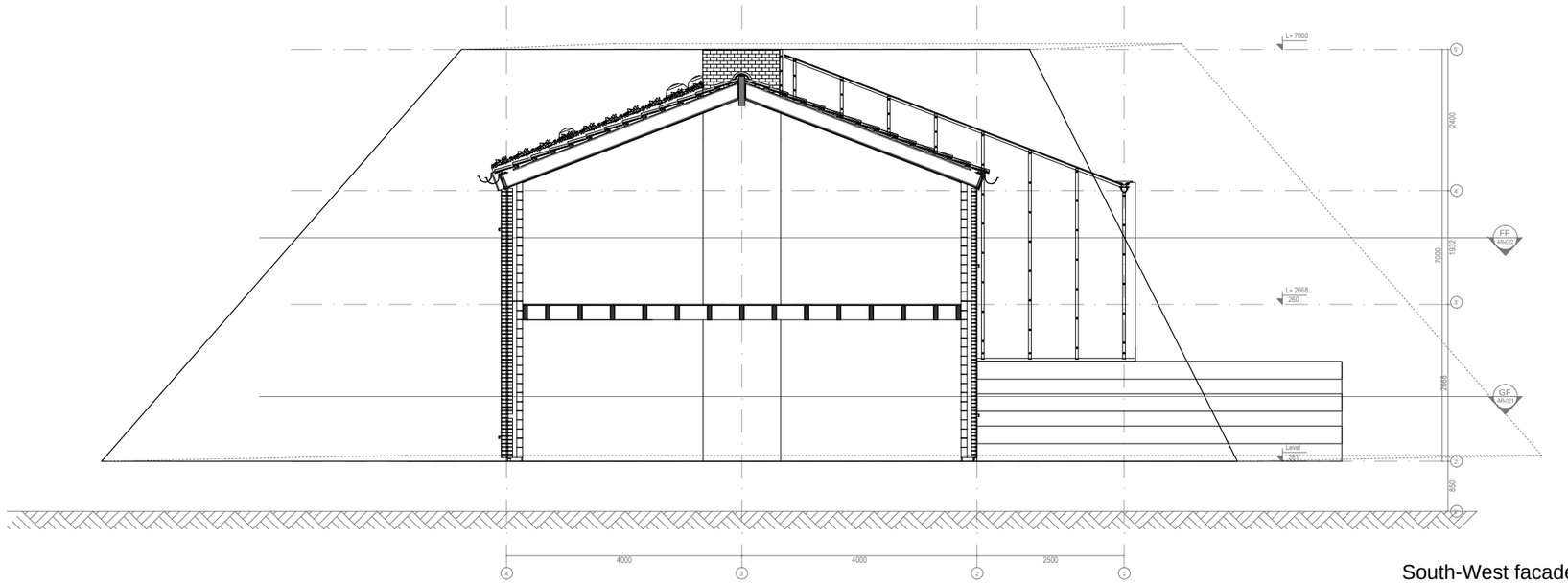
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	BUILDING ELEVATIONS

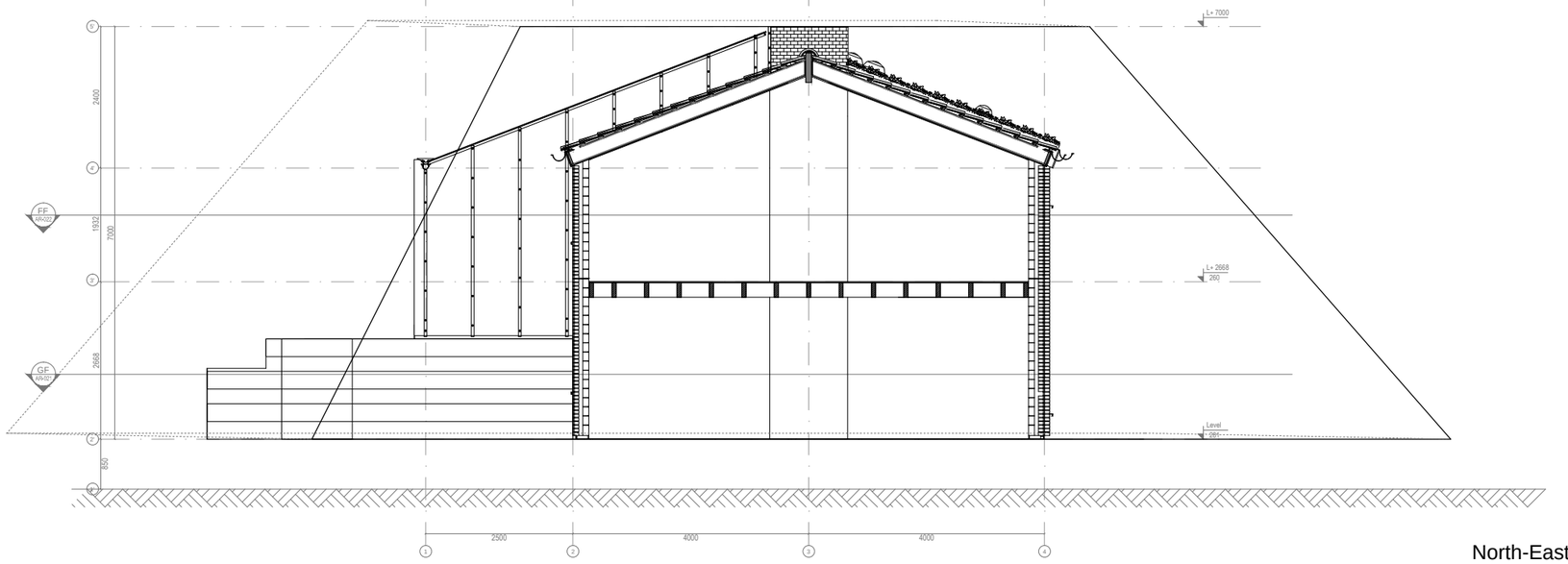
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	AR-111

A3



South-West facade

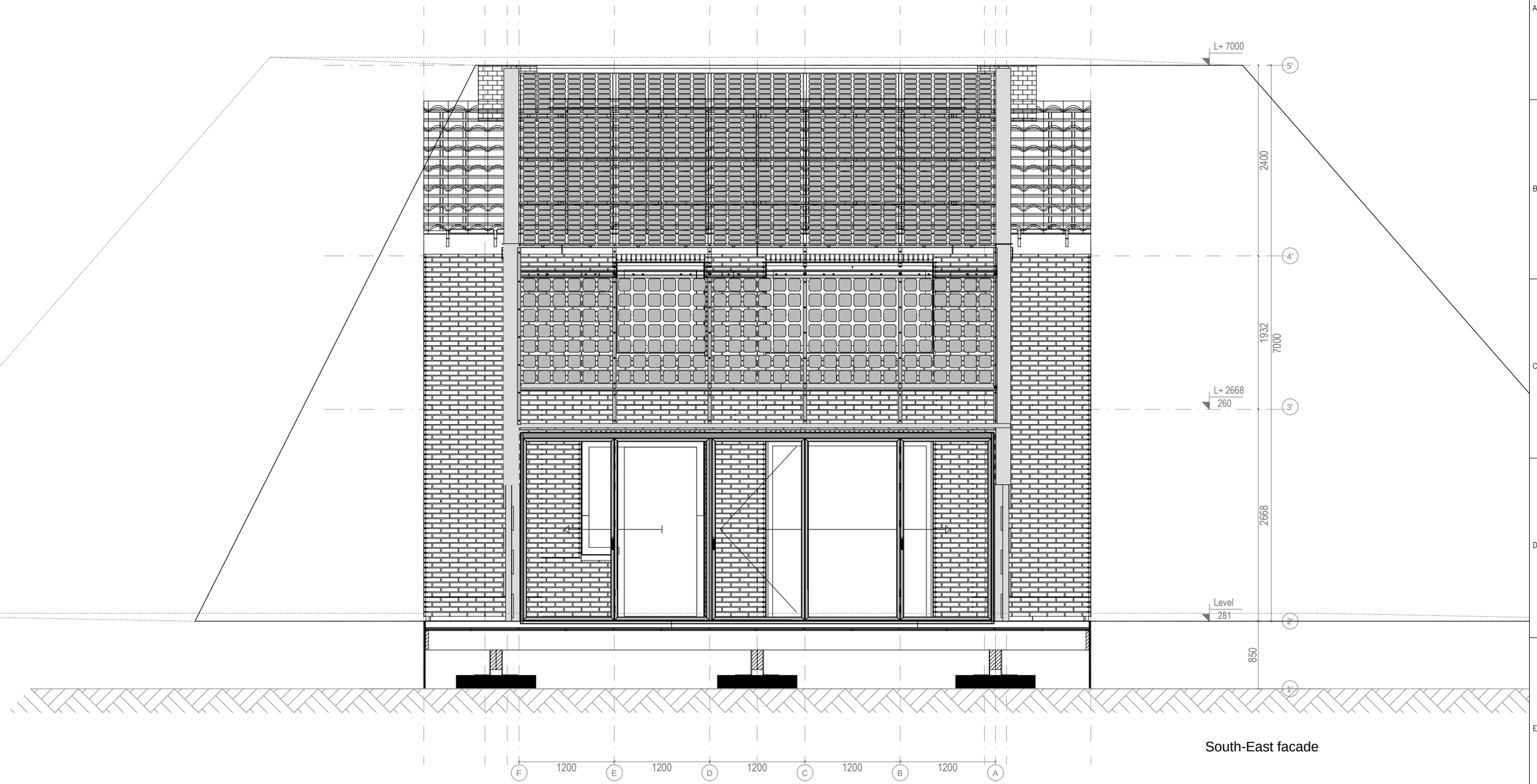


North-East facade

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 29.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:100
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: BUILDING ELEVATIONS	Drawing Code: AR-112

A3



South-East facade

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: BUILDING ELEVATIONS	

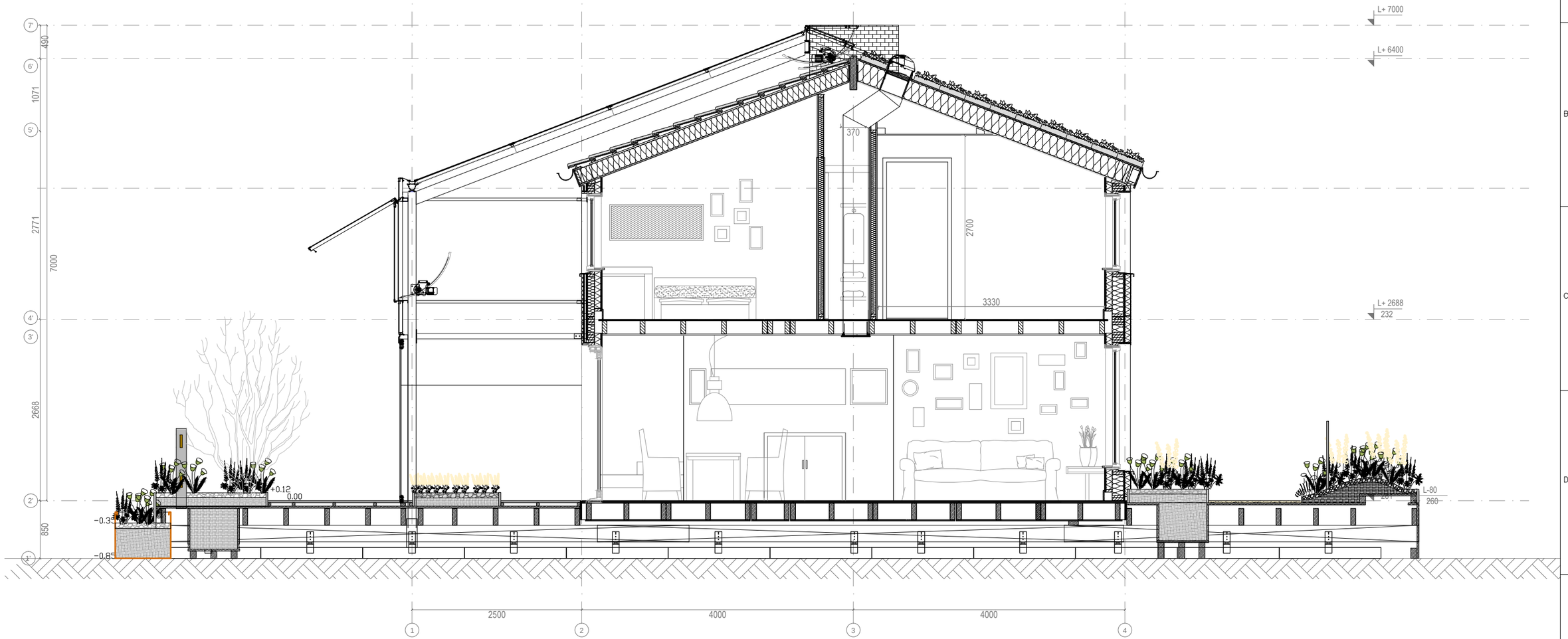
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-113**

A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: LONGITUDINAL SECTIONS BB	

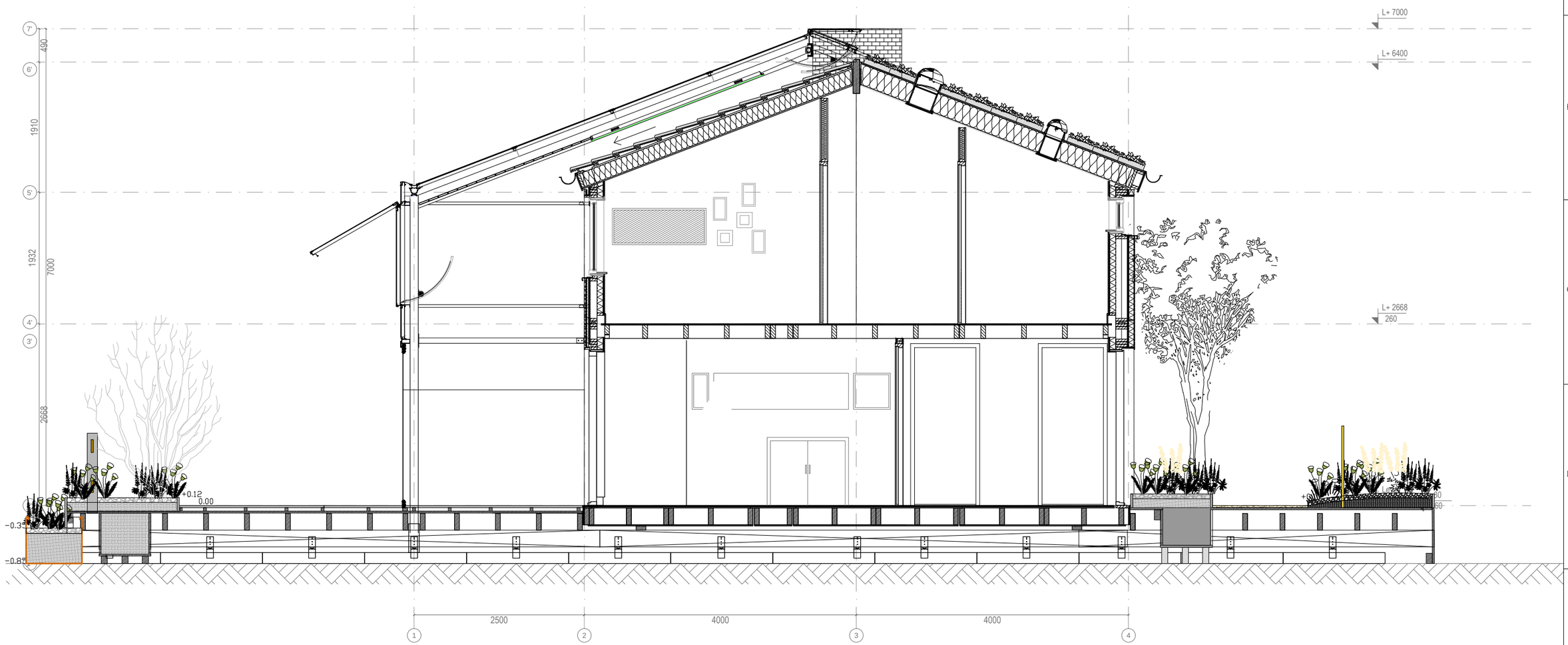
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-201**

A3



all measurements are in mm

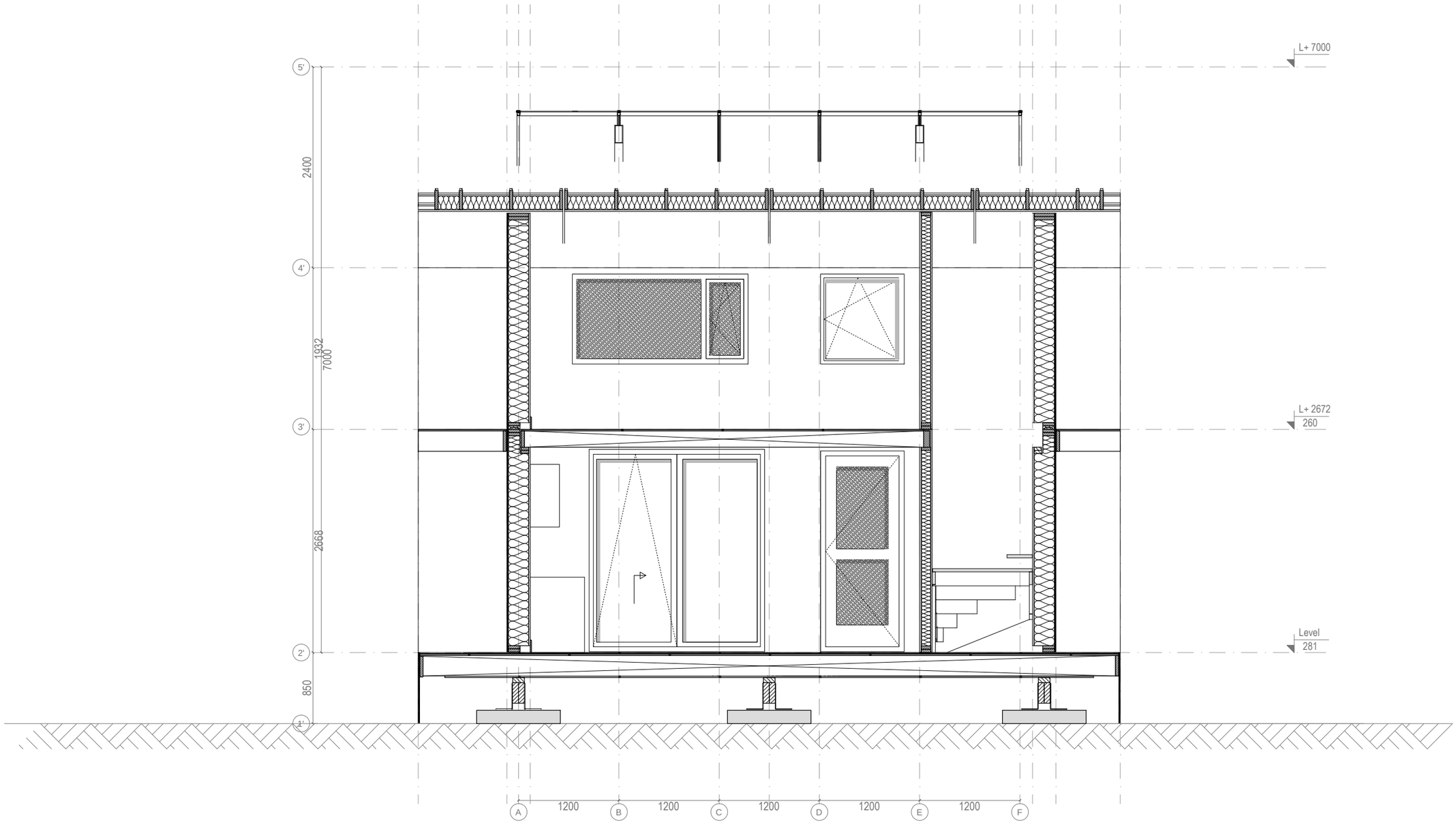
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: LONGITUDINAL SECTIONS CC	

Revisions		
4	--.--.----	-
3	01.11.2014	DEL #7
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:60
Drawing Code	AR-202

A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: TRANSVERSAL SECTIONS AA	

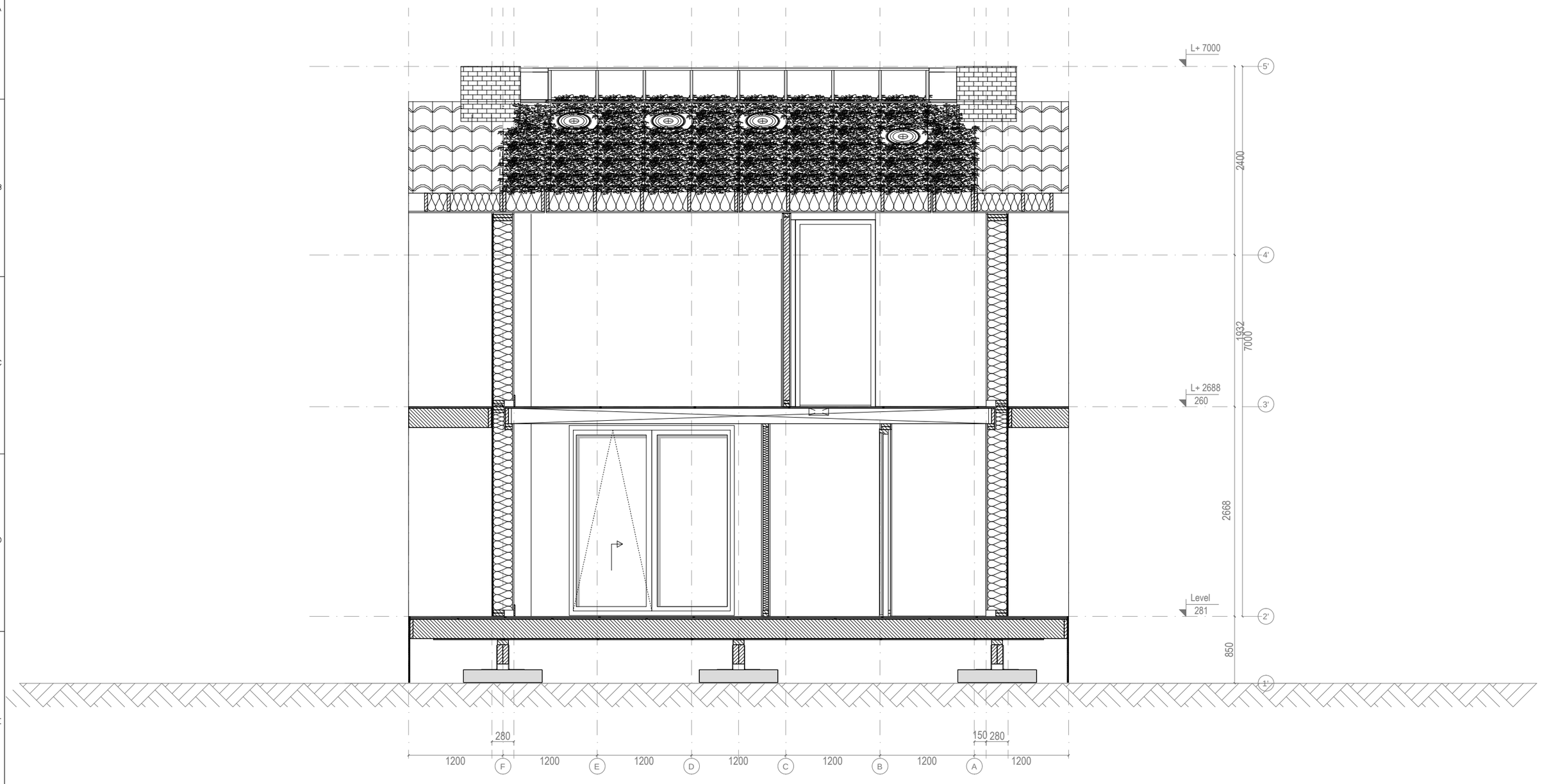
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **AR-211**

A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: TRANSVERSAL SECTIONS DD	

Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

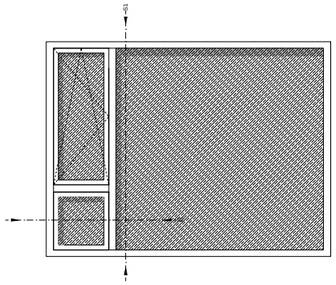
Paper Size	A3
Drawing Scale	1:50
Drawing Code	**AR-212**

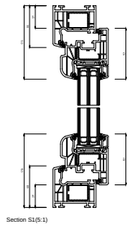
A3

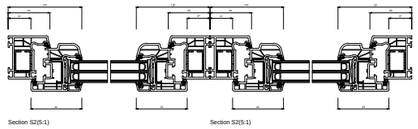
Window type a
Partly operable

Width windowframe:
Opening size 2360mm
(21k+v)

Height:
Opening size 1750 mm
(28L, layersize 62,5mm)



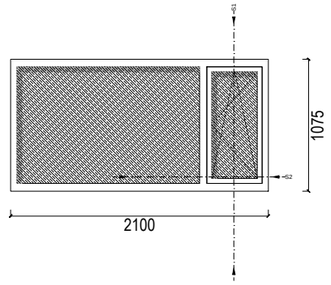


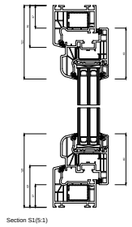


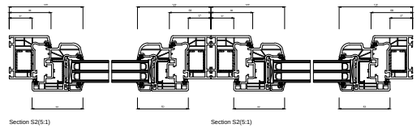
Window type b
Partly operable

Width windowframe:
Opening size 2100mm
(19k+v)

Height:
Opening size 1075mm



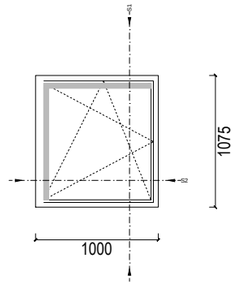


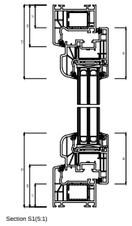


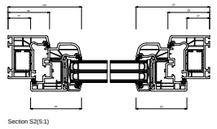
Window type d
Operable window

Width windowframe:
Opening size 1000mm
(9k+v)

Height:
Opening size 1075mm



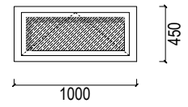


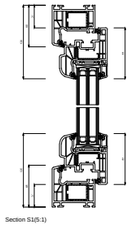


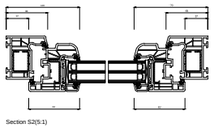
Window type c
Operable window

Width windowframe:
Opening size same as Door type A

Height:
Opening size 450mm







all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	WINDOW SCHEDULE AND DETAILS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

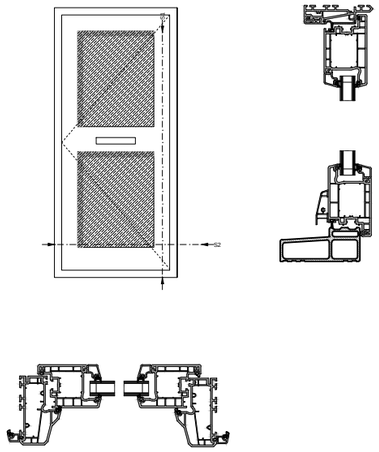
Paper Size	A3
Drawing Scale	1:50
Drawing Code	AR-301

A3

Door type A

Width:
Opening size 900mm
frame width: 1200mm

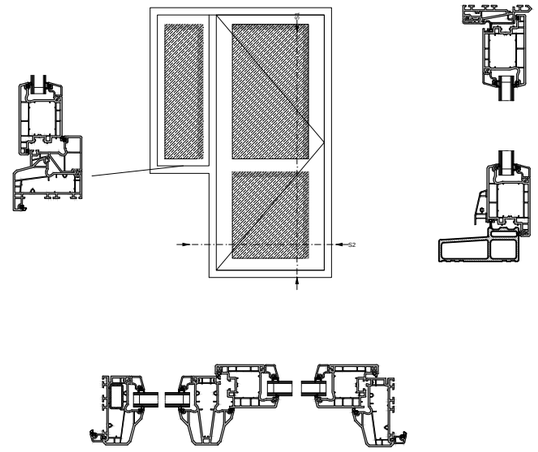
Height:
Door size 2300mm
Opening size 2400mm



Door type D
(so called 'melkmeisje', *dutch*)

Width:
Door size 900mm
frame opening 1480 / 1000mm

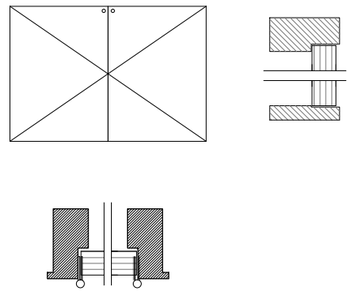
Height:
Door size 2300mm
Opening size 2400mm



Door type F
special made doors

Width:
Opening size 1300-1400mm

Height:
Opening size 1100 mm

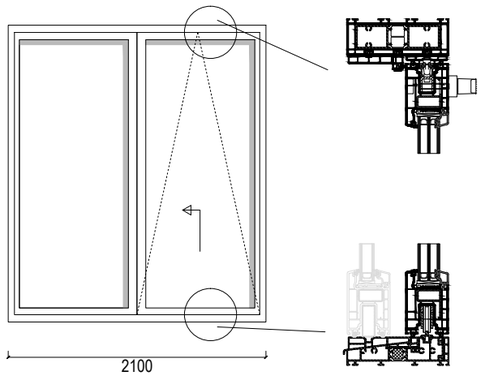


Door type E

Sliding door

Width windowframe:
Opening size 2100mm
(19k+v)

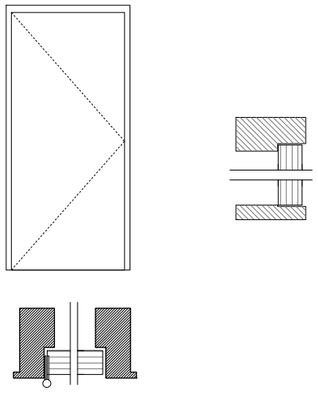
Height:
Door size 2300mm



Door type B
Interior

Width:
Door size 930mm

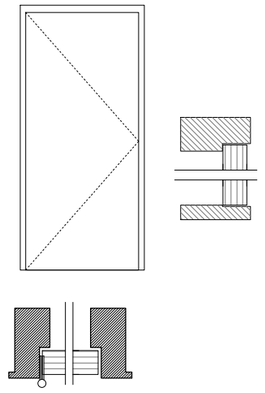
Height:
Door size 2300mm



Door type C
Interior (small)

Width:
Door size 790mm

Height:
Door size 2300mm



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: DOOR SCHEDULE AND DETAILS	

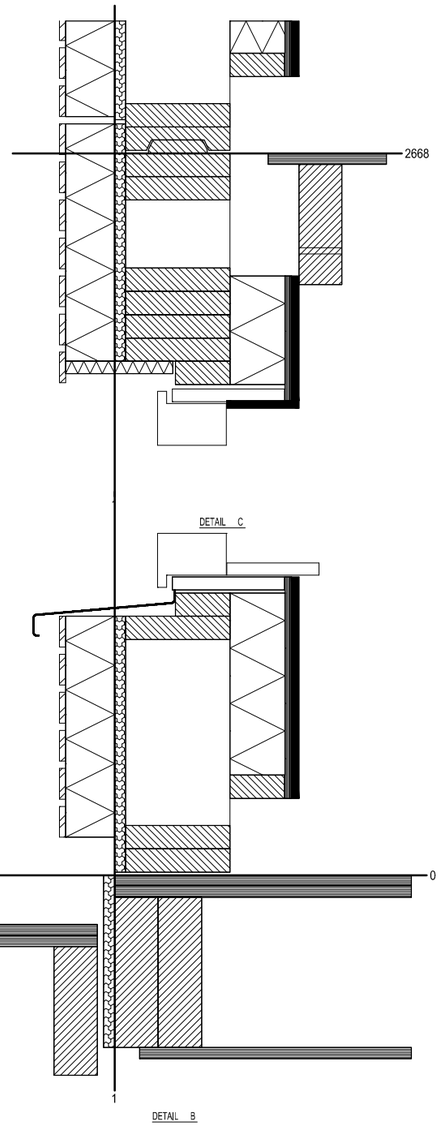
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

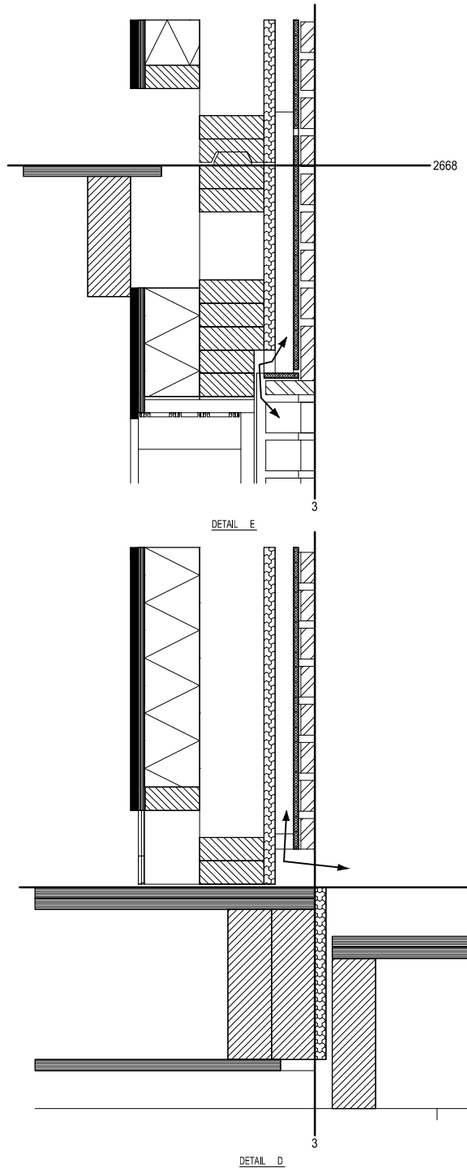
Paper Size: A3

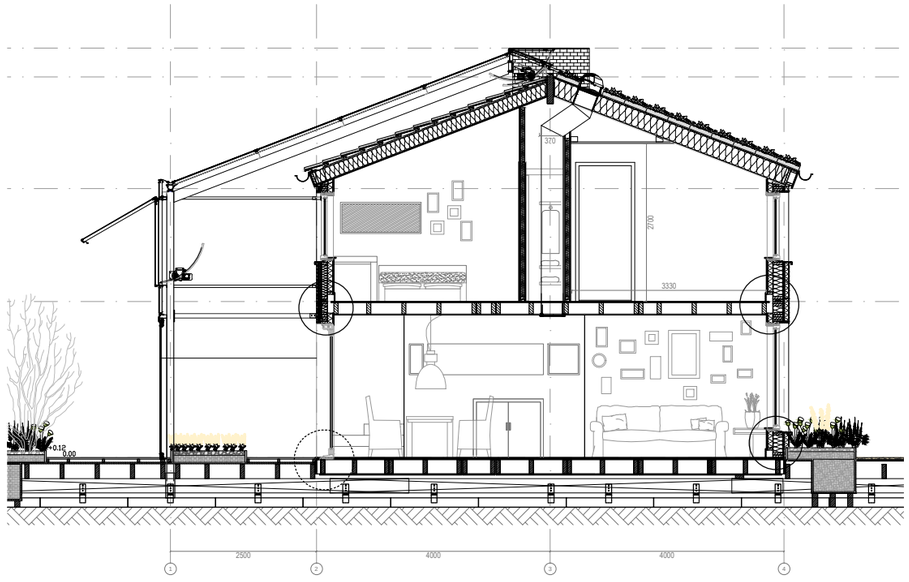
Drawing Scale: 1:50

Drawing Code: **AR-311**

A3



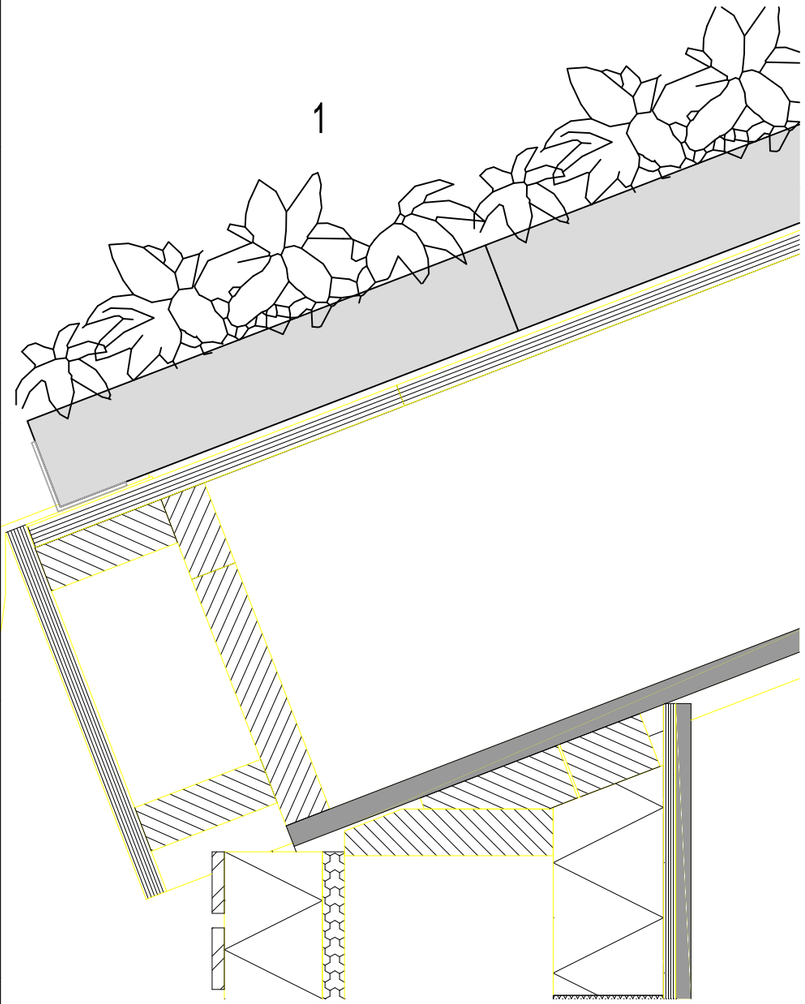




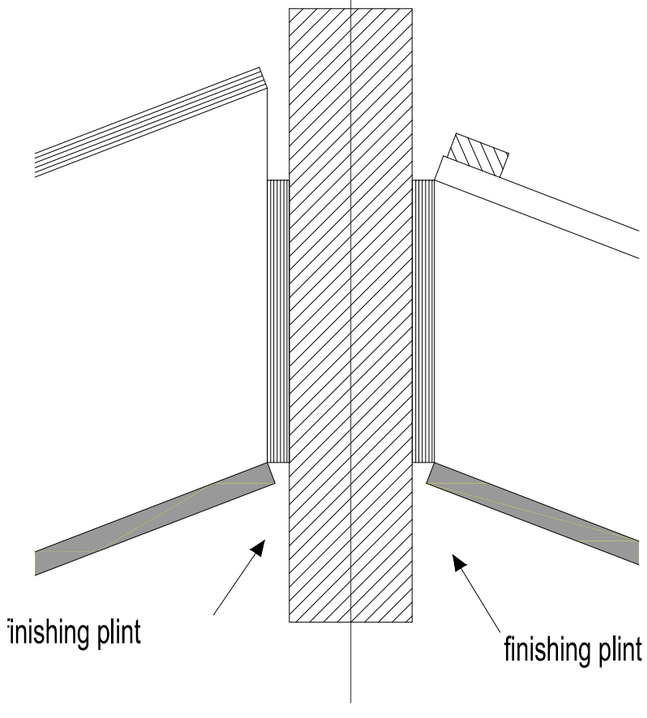
all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - ; 3 --.--.---- - ; 2 30.04.2014 DEL #5 ; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:10
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: FLOOR CONSTRUCTION DETAILS	Drawing Code: AR-321

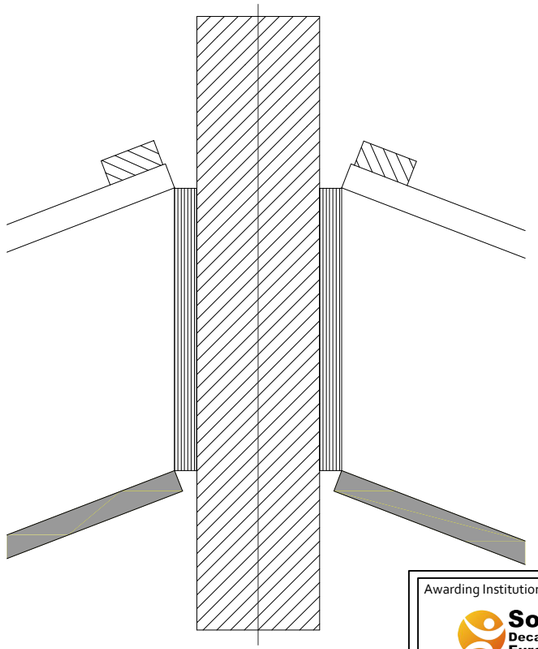
A3

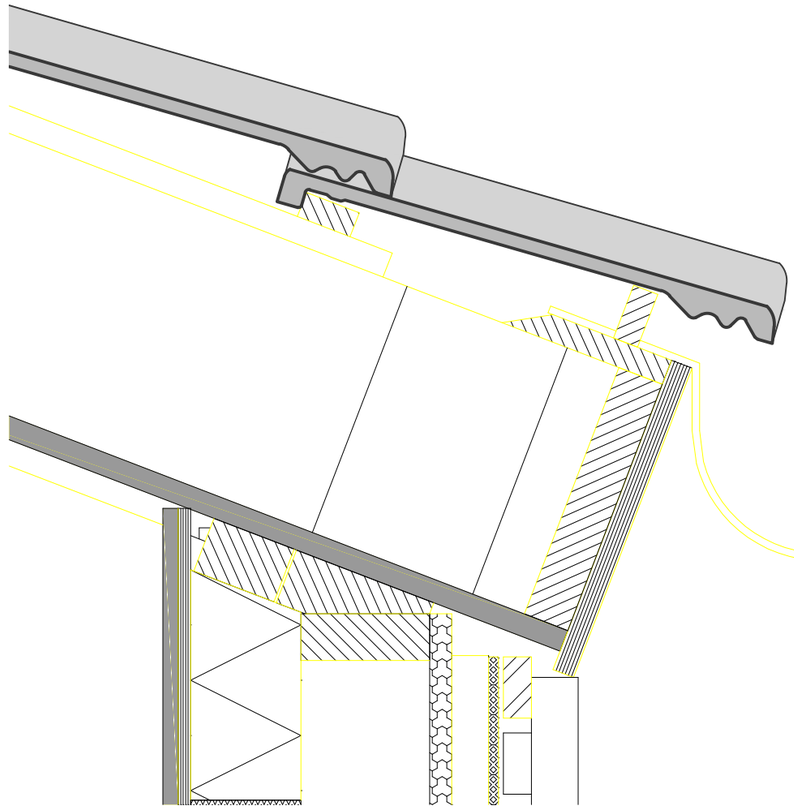


DETAIL F



DETAIL H



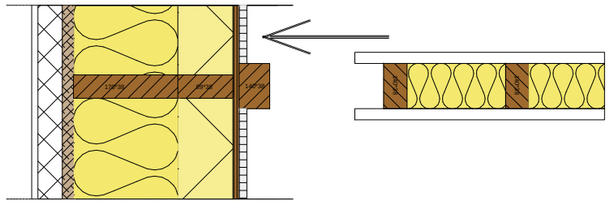


DETAIL G

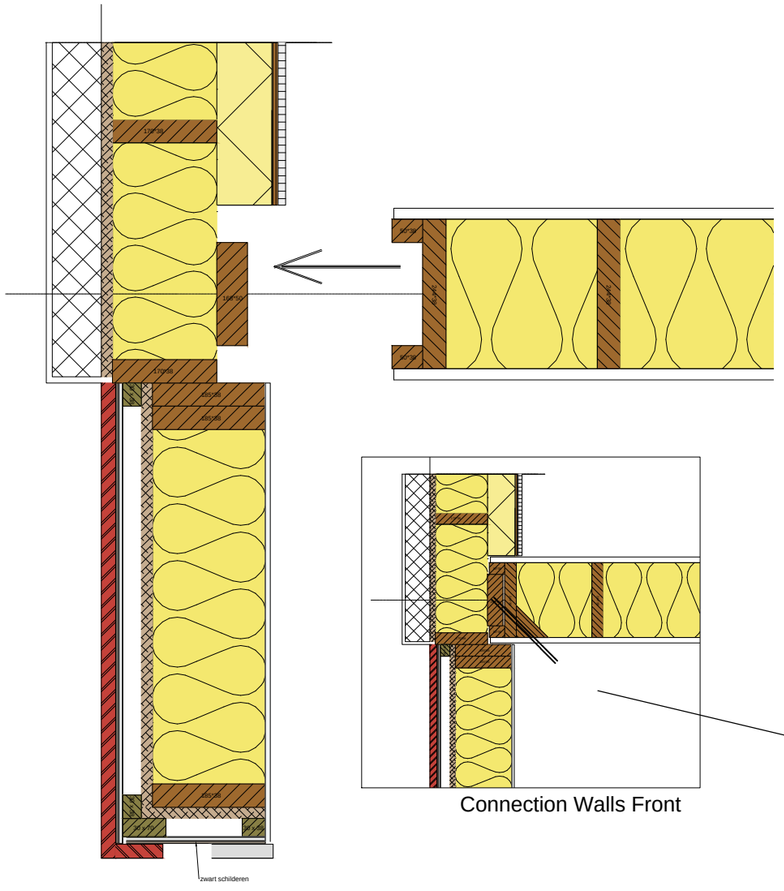
all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- -; 3 --.--.---- -; 2 30.04.2014 DEL #5; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ROOF CONSTRUCTION DETAILS	Drawing Code: AR-331

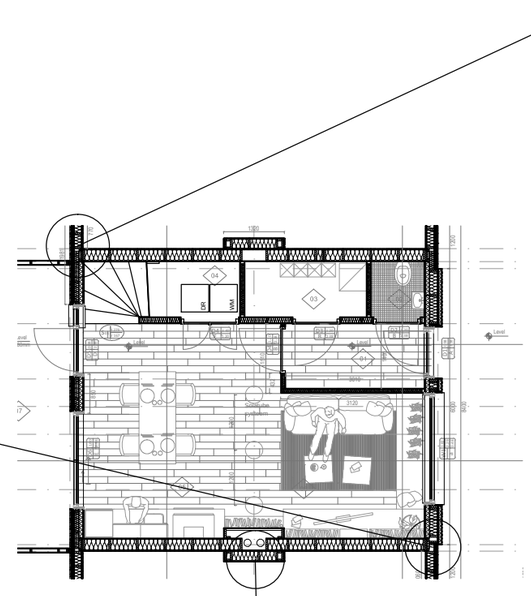
A3



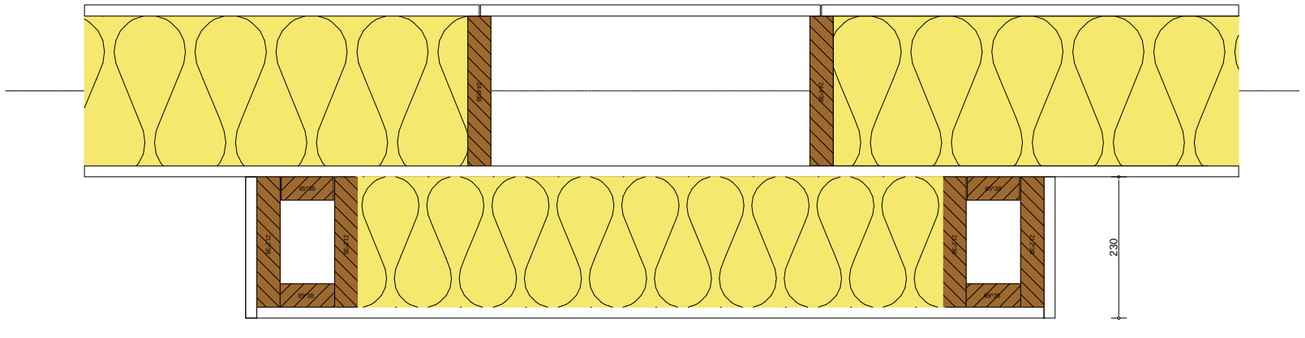
Partition Wall Connection

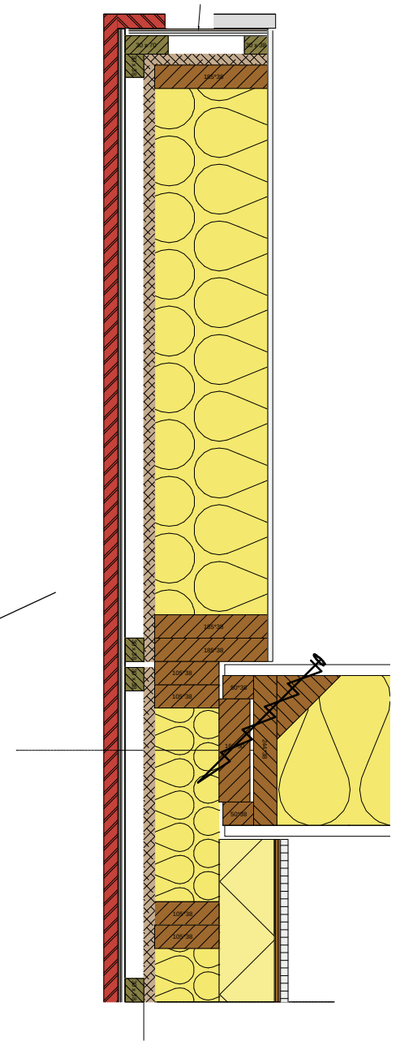


Connection Walls Front

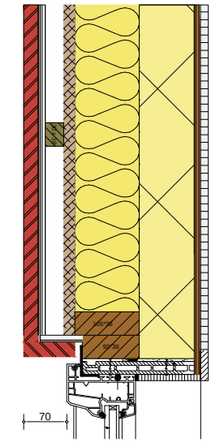


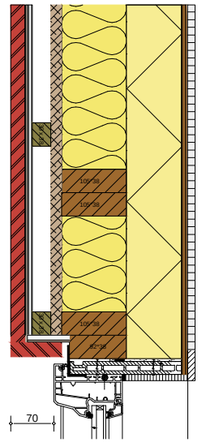
Chimney Representation





Connection Walls Front





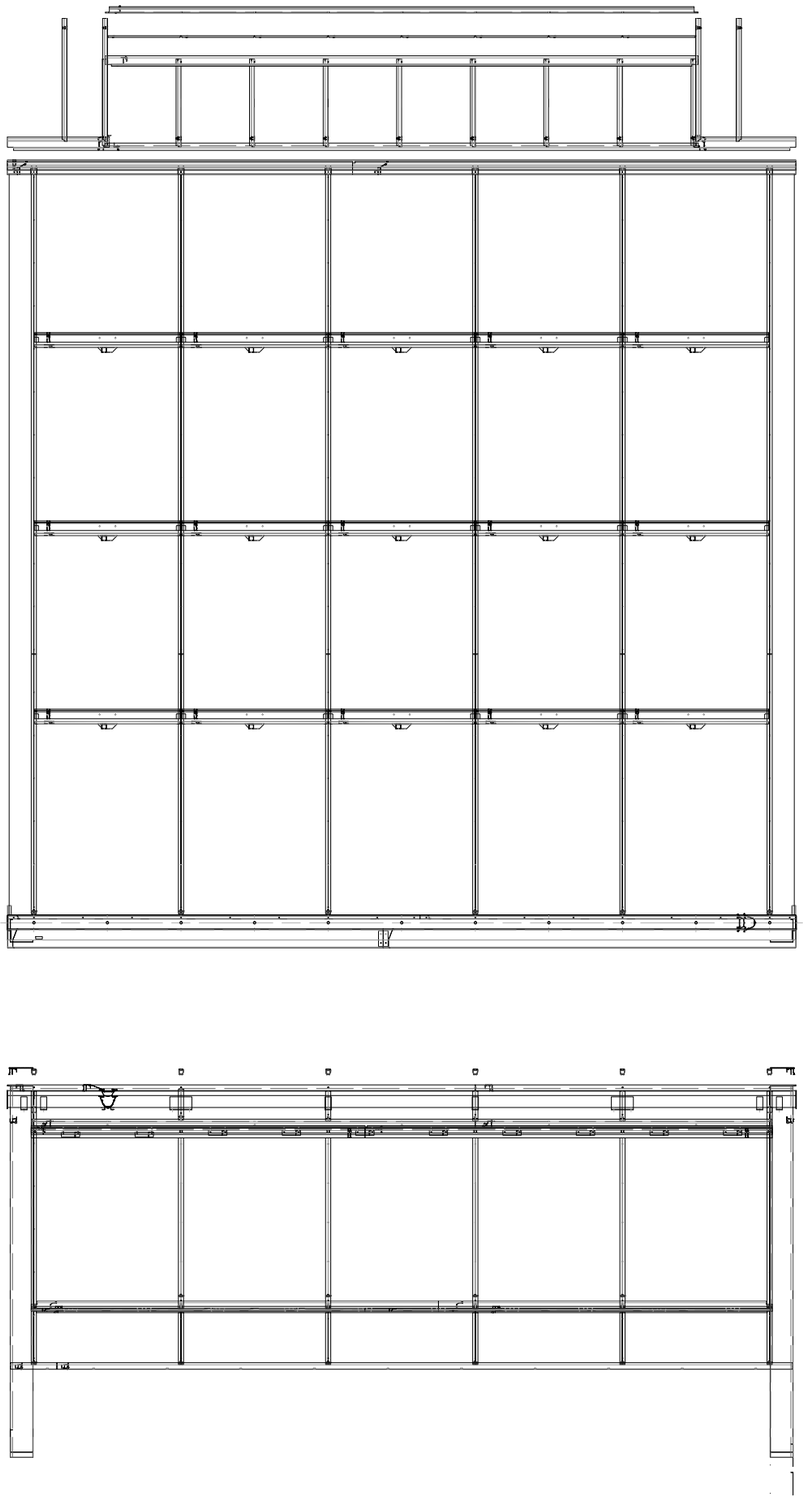
Window Frames Detail
Vertical

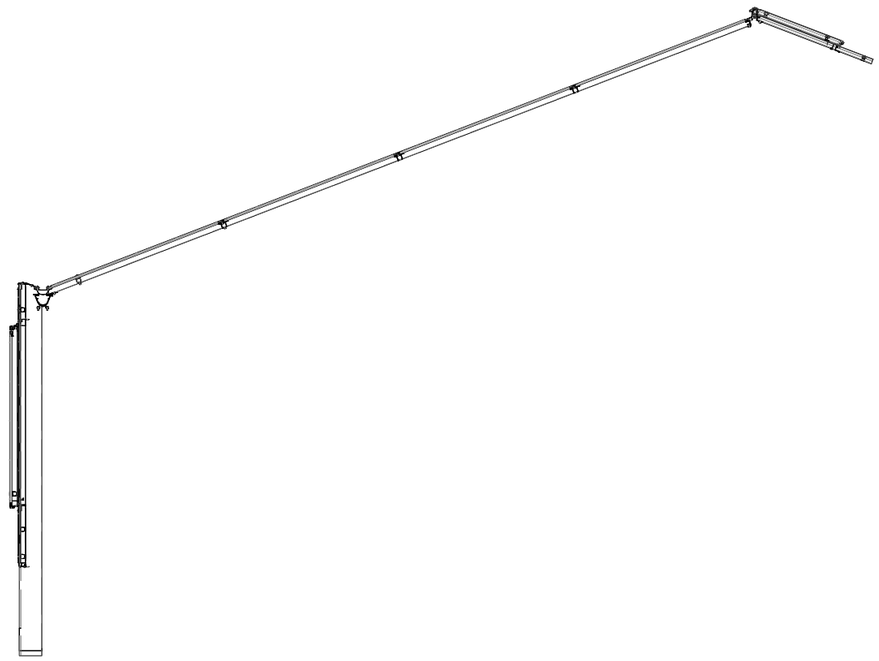
Window Frames Detail
Horizontal

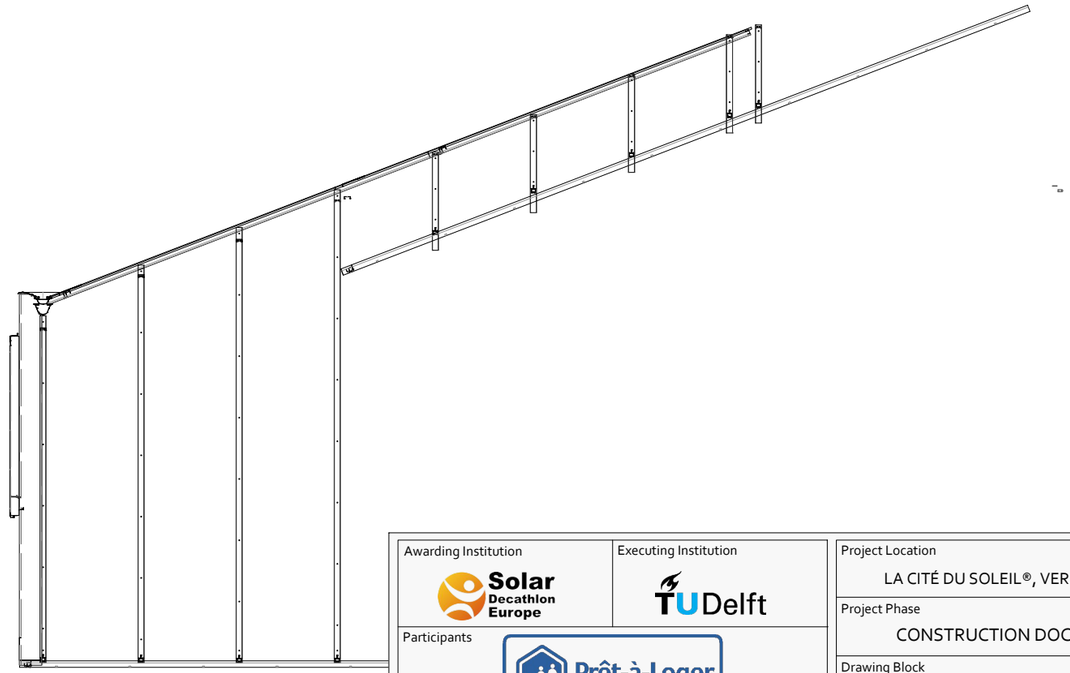
all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 30.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:10
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: WALL SECTIONS AND CONSTRUCTION DETAILS	Drawing Code: AR-341

A3





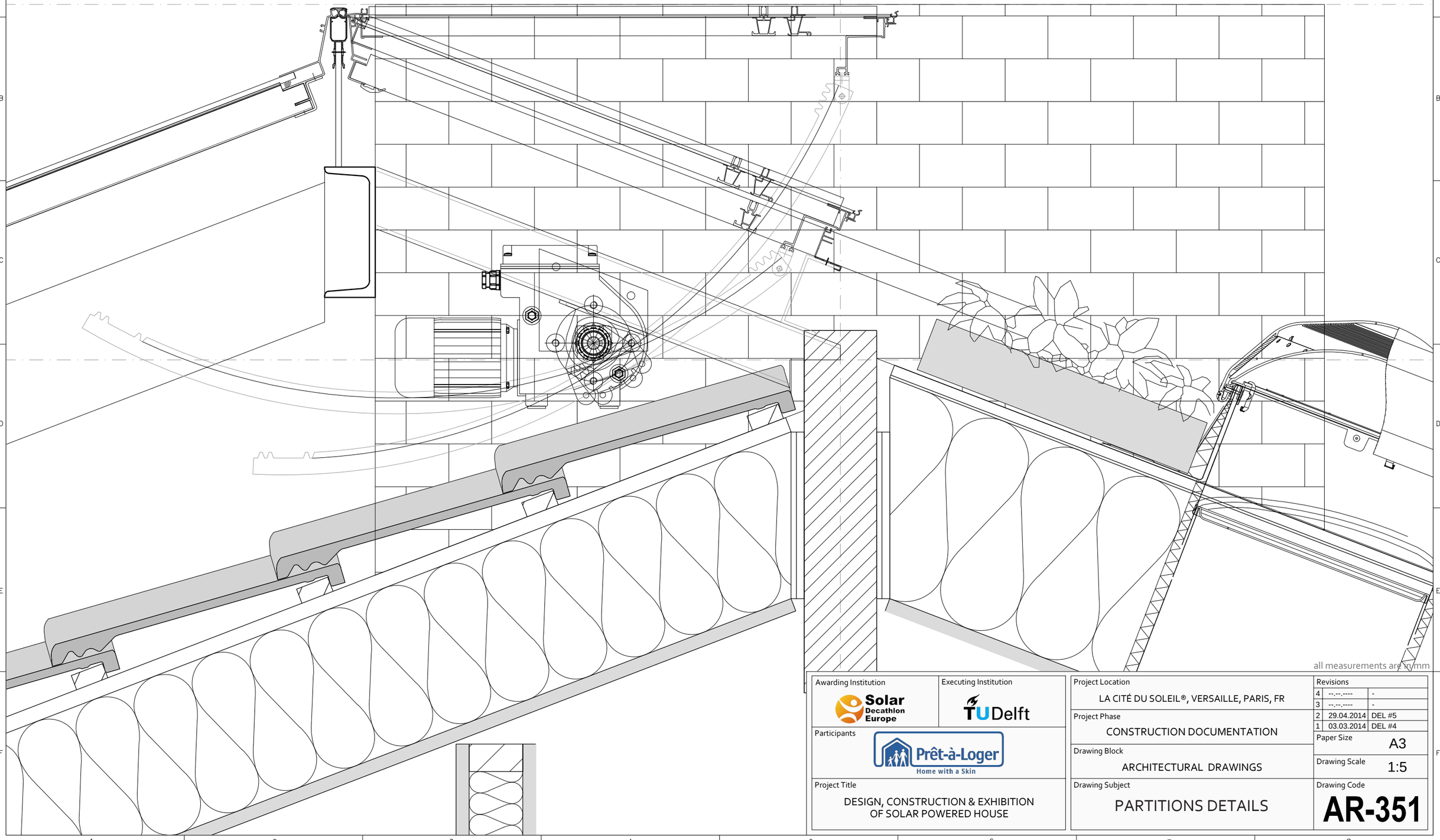


---INFORMATION---

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 30.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: ARCHITECTURAL DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: GREENHOUSE SYSTEM	Drawing Code: AR-342

A3



all measurements are in mm

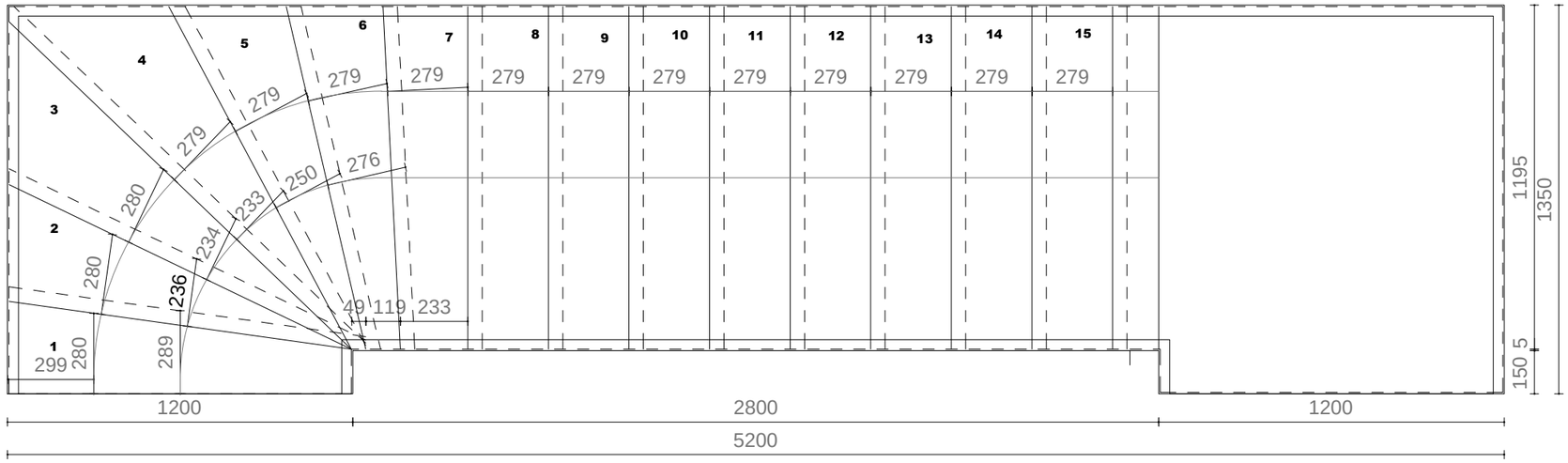
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	PARTITIONS DETAILS

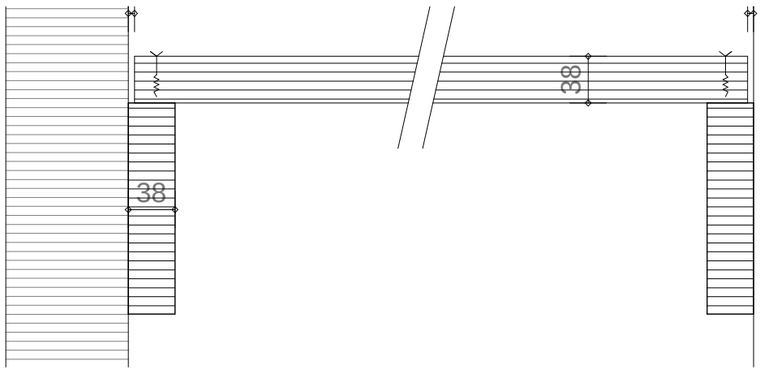
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

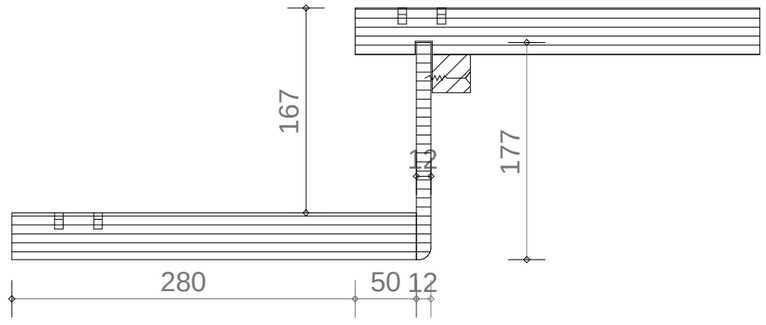
Paper Size	A3
Drawing Scale	1:5
Drawing Code	AR-351

A3

S01 | t 279 / r 167







all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ARCHITECTURAL DRAWINGS	
Drawing Subject: STAIR DETAILS	

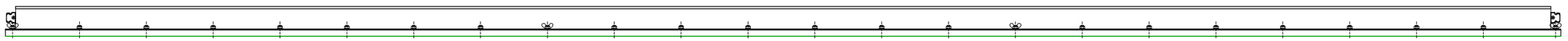
Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:20

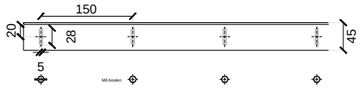
Drawing Code: **AR-361**

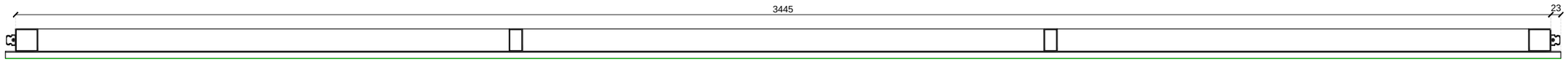
A3



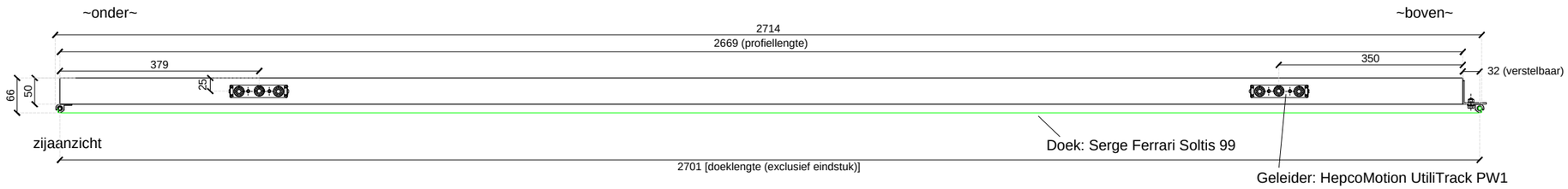
zijaanzicht 2

4 vlindermoeren om doek te stellen. Daarna met moeren vastzetten (zelfklemmende bouten)
Hoekprofiel is voorzien van slobgaten om te kunnen stellen





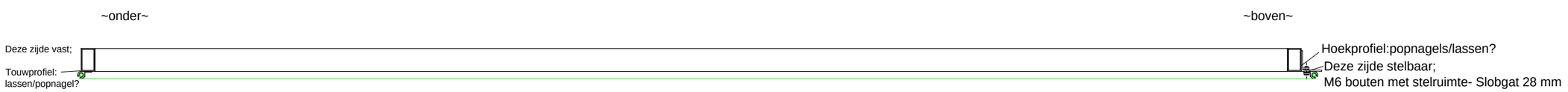
dwars doorsnede AA



zijaanzicht

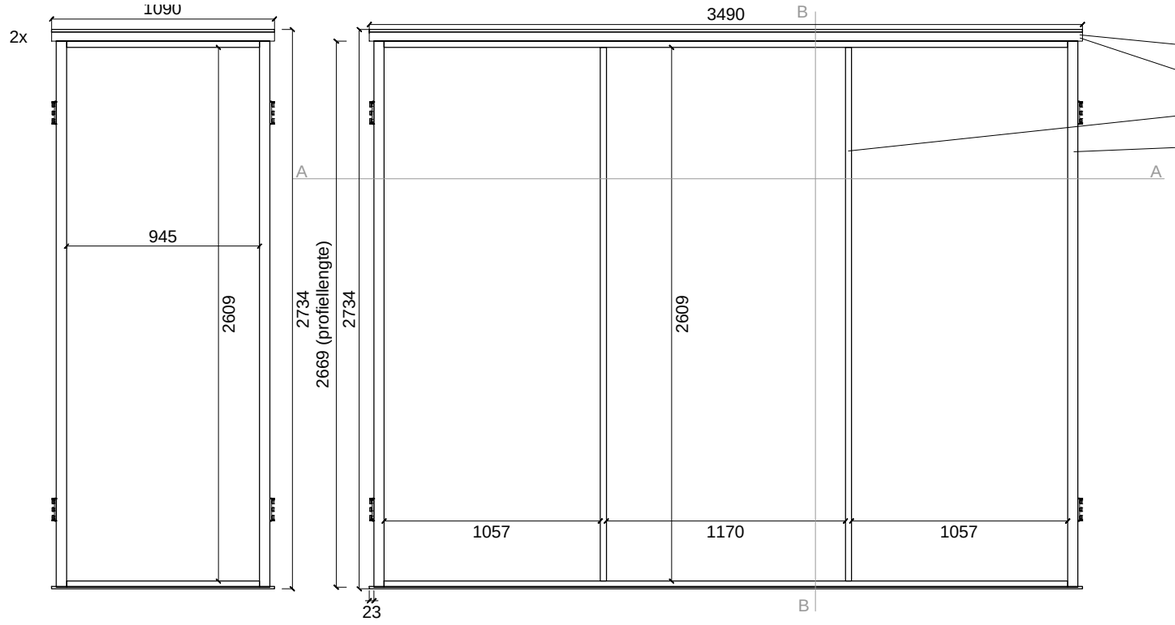
Doek: Serge Ferrari Soltis 99

Geleider: HepcoMotion UtiliTrack PW1



lengte doorsnede BB

1:10



1:30

Touwprofiel (6x totaal)
Hoekprofiel Alu 45*45*3 (3x totaal)
Kokerprofiel Alu 50*30*2 (8x totaal)
Kokerprofiel Alu 50*50*2 (6x totaal)

2x doekbreedte 1090mm (lengte nader te bepalen)

Voor middelste systeem:
1145mm, 1200mm,1145mm (lengte nader te bepalen)

exclusief overlappende naden!

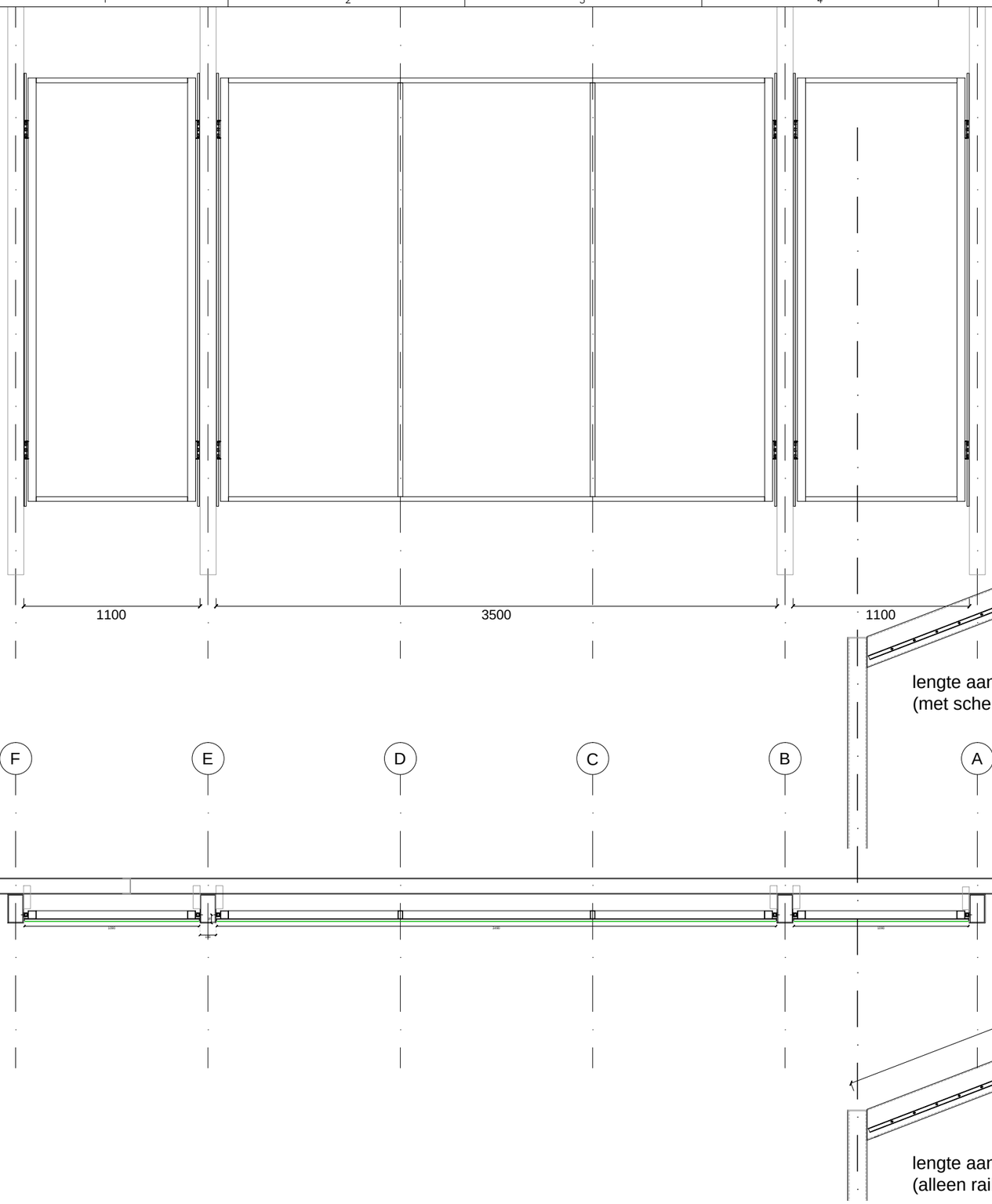
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ARCHITECTURAL DRAWINGS
Drawing Subject	SUNSHADING PANEL

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	13.04.2014	V.O.

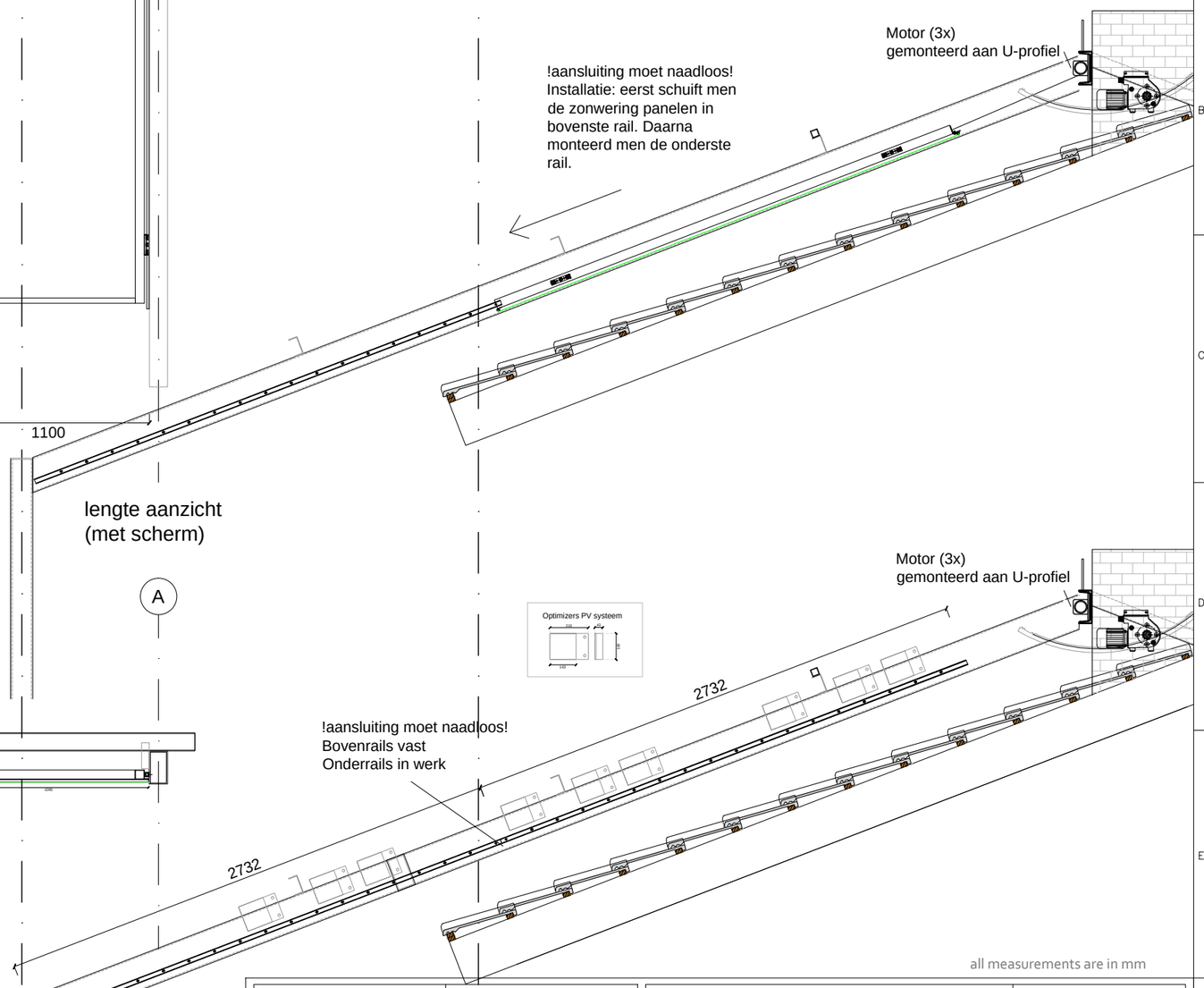
Paper Size: A3
Drawing Scale: va
Drawing Code: **AR-362**

A3



lengte aanzicht
(met scherm)

lengte aanzicht
(alleen rails)



all measurements are in mm

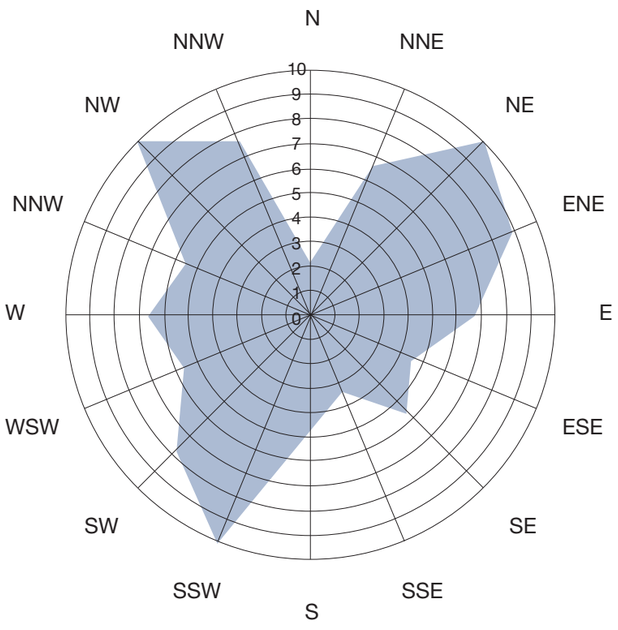
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 --.--.---- - / 1 13.04.2014 V.O.
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:30
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: SUNSHADING SYSTEM	Drawing Code: AR-363

A3

Wind speed & Wind direction (year)

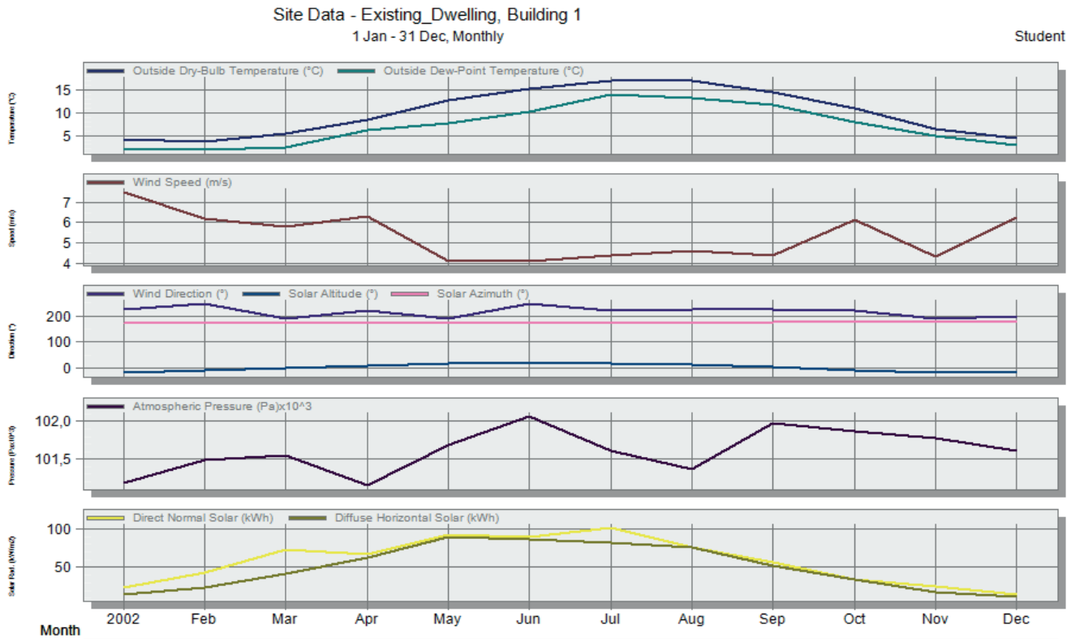
Month of year	Jan 01	Feb 02	Mar 03	Apr 04	May 05	Jun 06	Jul 07	Aug 08	Sep 09	Oct 10	Nov 11	Dec 12	SUM 1-12
Dominant Wind dir.							n/a	n/a	n/a	n/a	n/a	n/a	
Wind probability >= 4 Beaufort (%)	1	4	9	4	0	0	n/a	n/a	n/a	n/a	n/a	n/a	3
Average Wind speed (kts)	4	5	5	3	3	2	n/a	n/a	n/a	n/a	n/a	n/a	3
Average air temp. (°C)	3	3	5	10	13	17	n/a	n/a	n/a	n/a	n/a	n/a	8
Select month (Help)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year

Maassluis



EnergyPlus Output

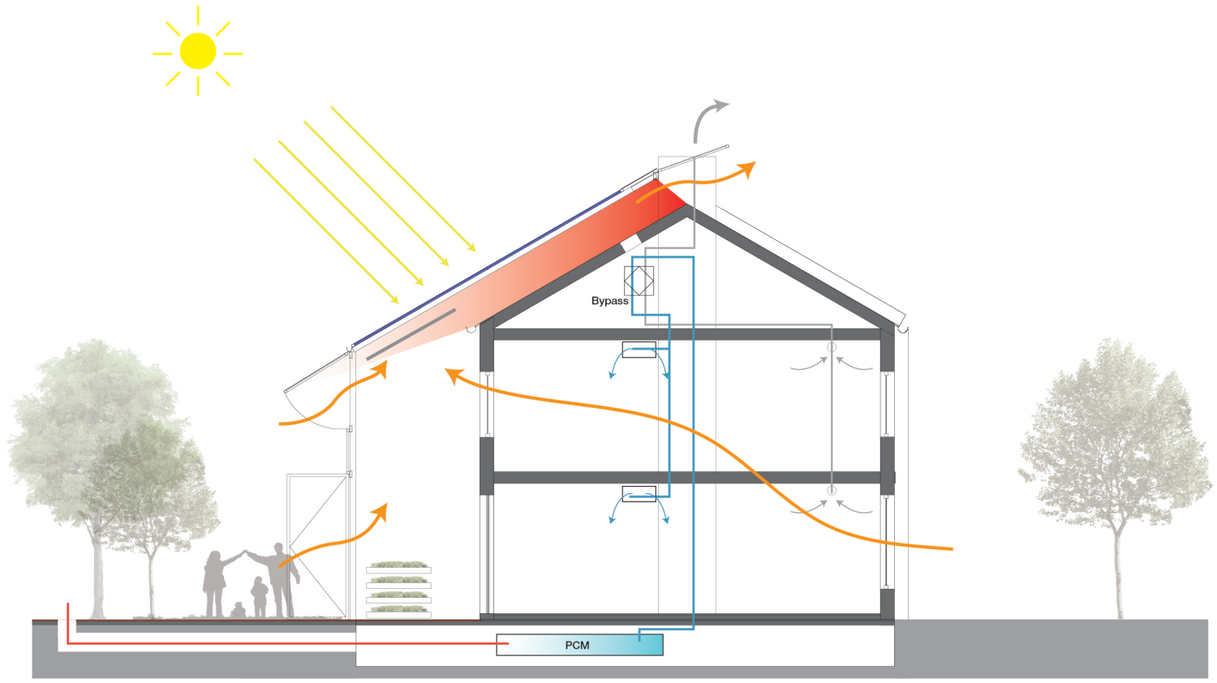
Annual temperature (Holland)



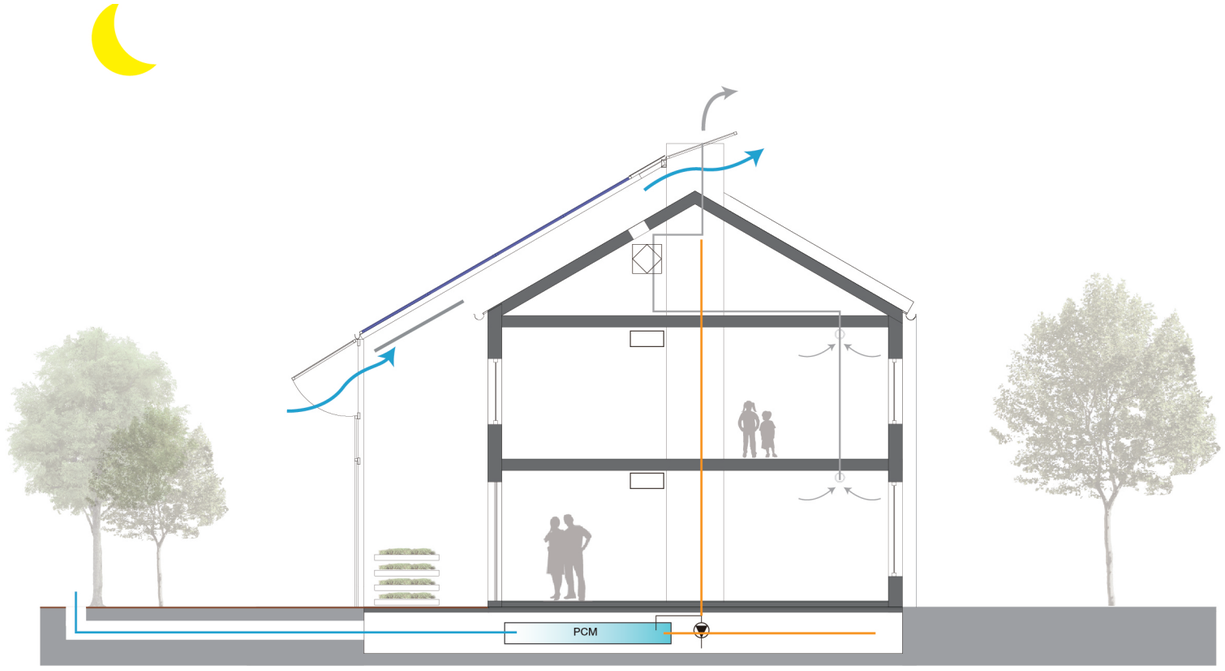
	2002	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Outside Dry-Bulb Temperature (°C)	4,20	3,70	5,32	8,45	12,73	15,20	16,91	17,14	14,41	10,85	6,49	4,44
Outside Dew-Point Temperature (°C)	2,21	1,75	2,42	6,19	7,66	10,27	14,11	13,20	11,75	7,98	4,82	2,80
Wind Speed (m/s)	7,52	6,17	5,81	6,30	4,13	4,08	4,42	4,62	4,41	6,14	4,36	6,27
Wind Direction (°)	226,65	245,90	188,97	220,64	188,68	248,54	222,16	224,12	223,76	222,02	189,99	198,42
Solar Altitude (°)	-18,33	-11,47	-1,78	8,48	16,50	20,27	18,70	12,22	2,73	-7,56	-16,07	-20,23
Solar Azimuth (°)	171,61	170,45	171,59	173,56	174,45	173,57	172,31	172,67	174,77	176,98	177,23	174,82
Atmospheric Pressure (Pa)x10^3	101,19	101,49	101,54	101,14	101,68	102,07	101,62	101,36	101,97	101,87	101,77	101,61
Direct Normal Solar (kWh)	23,64	43,73	73,80	66,57	91,84	89,41	102,15	76,48	56,94	34,24	24,73	15,30
Diffuse Horizontal Solar (kWh)	14,20	23,11	42,12	62,69	88,78	86,13	81,50	76,25	51,40	34,62	17,58	11,10

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger Home with a Skin		Project Phase: ENERGY EFFICIENCY	Paper Size: A3
		Drawing Block: BIOCLIMATE ANALYSIS	Drawing Scale: 1 : 50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: LOCAL CLIMATE ANALYSIS	Drawing Code: BA-001

A3



SUMMER (DAY TIME)



SUMMER (NIGHT TIME)

---INFORMATION---

Inlet

Outlet

Heat exchanger

Heated Air

Warmed Air

Cool Air

Exhausted Air

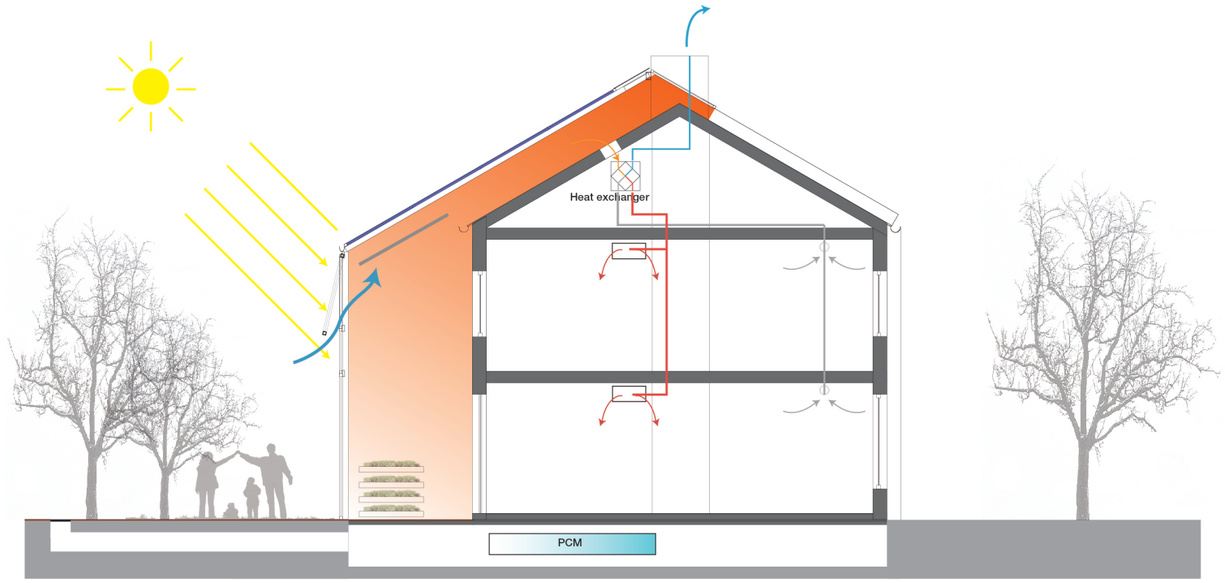
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	ENERGY EFFICIENCY
Drawing Block	BIO CLIMATE ANALYSIS
Drawing Subject	BIOCLIMATE DRAWINGS SUMMER(DAY,NIGHT TIME)

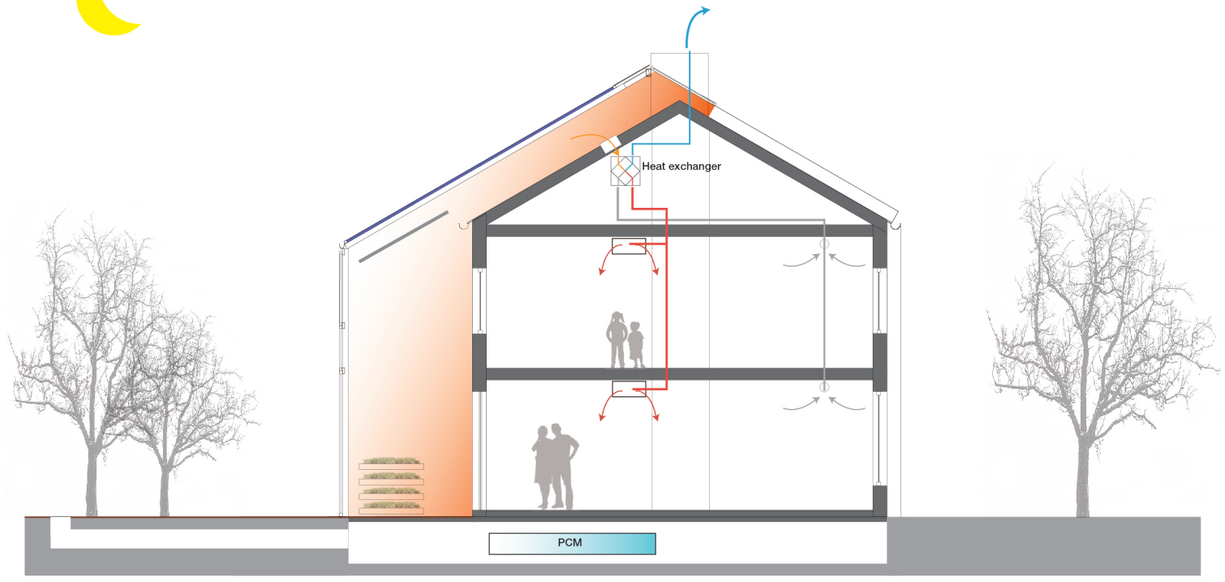
Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size	A3
Drawing Scale	1 : 50
Drawing Code	BA-011

A3



WINTER (DAY TIME)



WINTER (NIGHT TIME)

---INFORMATION---

- Inlet
- Outlet
- Heat exchanger
- Heated Air
- Warmed Air
- Cool Air
- Exhausted Air

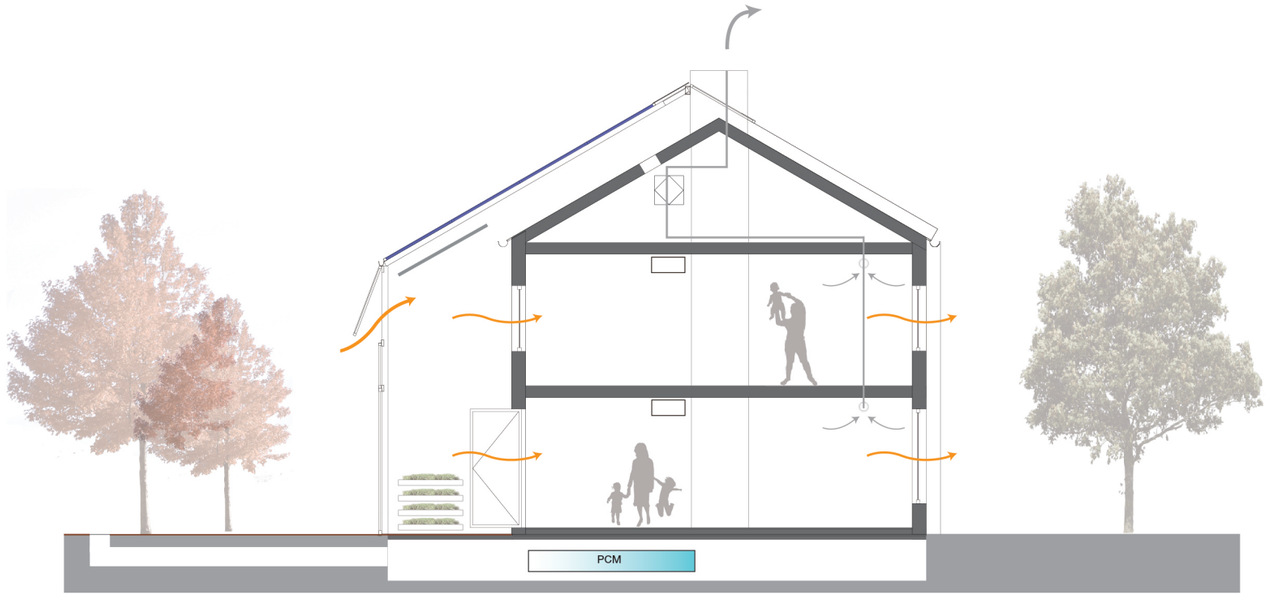
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	ENERGY EFFICIENCY
Drawing Block	BIO CLIMATE ANALYSIS
Drawing Subject	BIOCLIMATE DRAWINGS WINTER(DAY,NIGHT TIME)

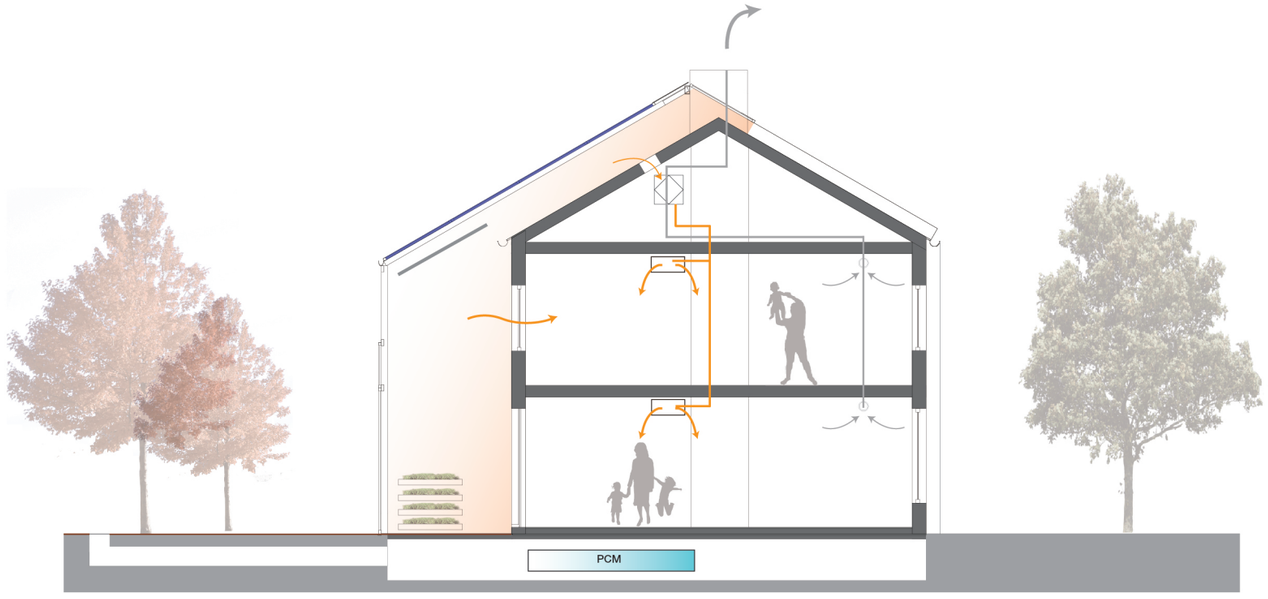
Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size	A3
Drawing Scale	1 : 50
Drawing Code	BA-012

A3



SPRING & AUTUMN (DAY TIME)



SPRING & AUTUMN (NIGHT TIME)

---INFORMATION---

Inlet

Outlet

Heat exchanger

Heated Air

Warmed Air

Cool Air

Exhausted Air

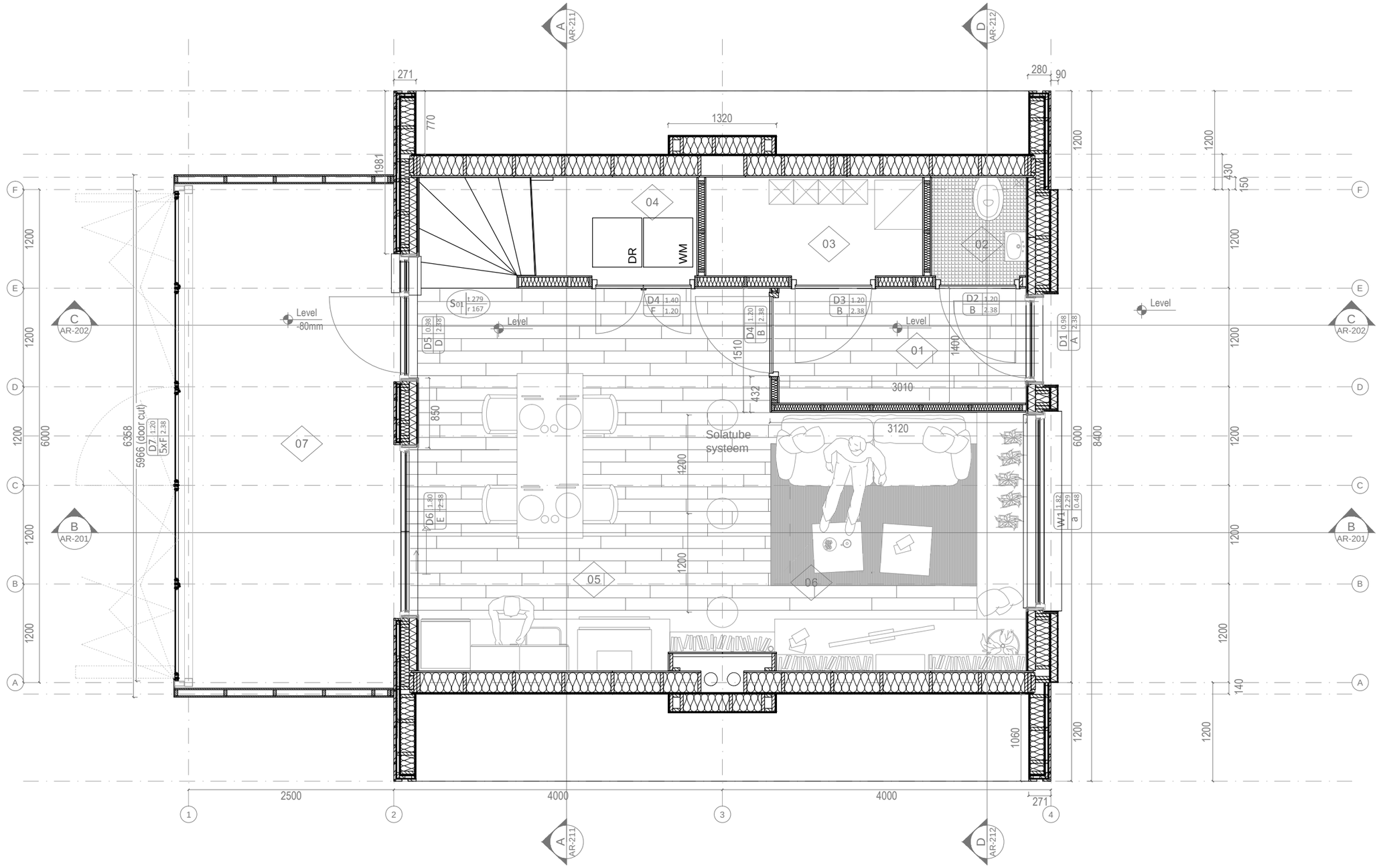
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	ENERGY EFFICIENCY
Drawing Block	BIO CLIMATE ANALYSIS
Drawing Subject	BIOCLIMATE DRAWINGS SPRING & AUTUMN

Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size	A3
Drawing Scale	1 : 50
Drawing Code	BA-013

A3



---INFORMATION---

1. Entrance
2. Toilet
3. Monitoring room
4. Wash room
5. Kitchen
6. Livingroom
7. Greenhouse

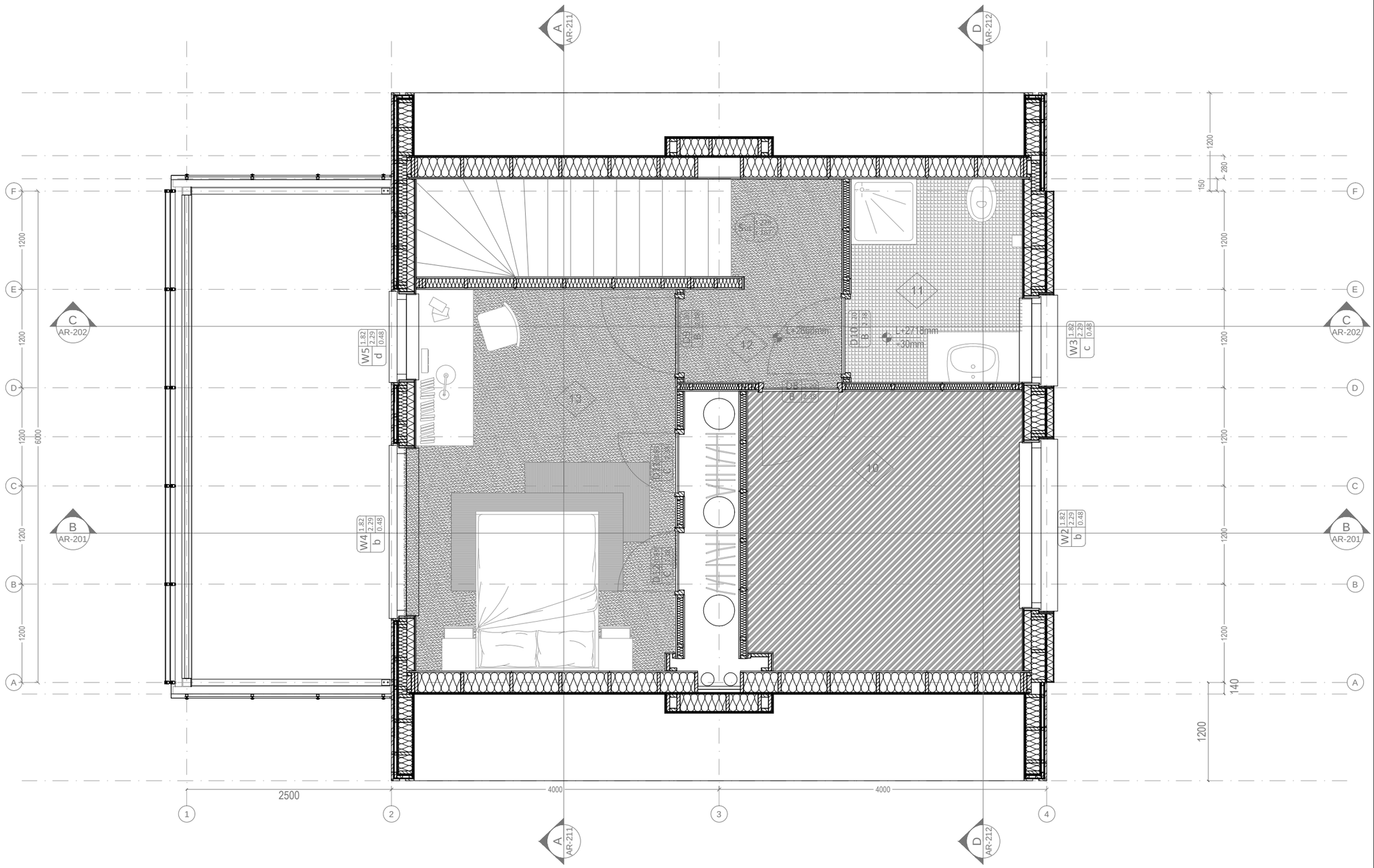
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	INTERIOR DRAWINGS
Drawing Subject	GROUND FLOOR PLAN

Revisions		
4	--.--.----	-
3	--.--.----	-
2	29.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	IN-001

A3



---INFORMATION---

10. Modelroom
11. Bathroom
12. Stairlanding
13. Bedroom 1

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: INTERIOR DRAWINGS	
Drawing Subject: FIRST FLOOR PLAN	

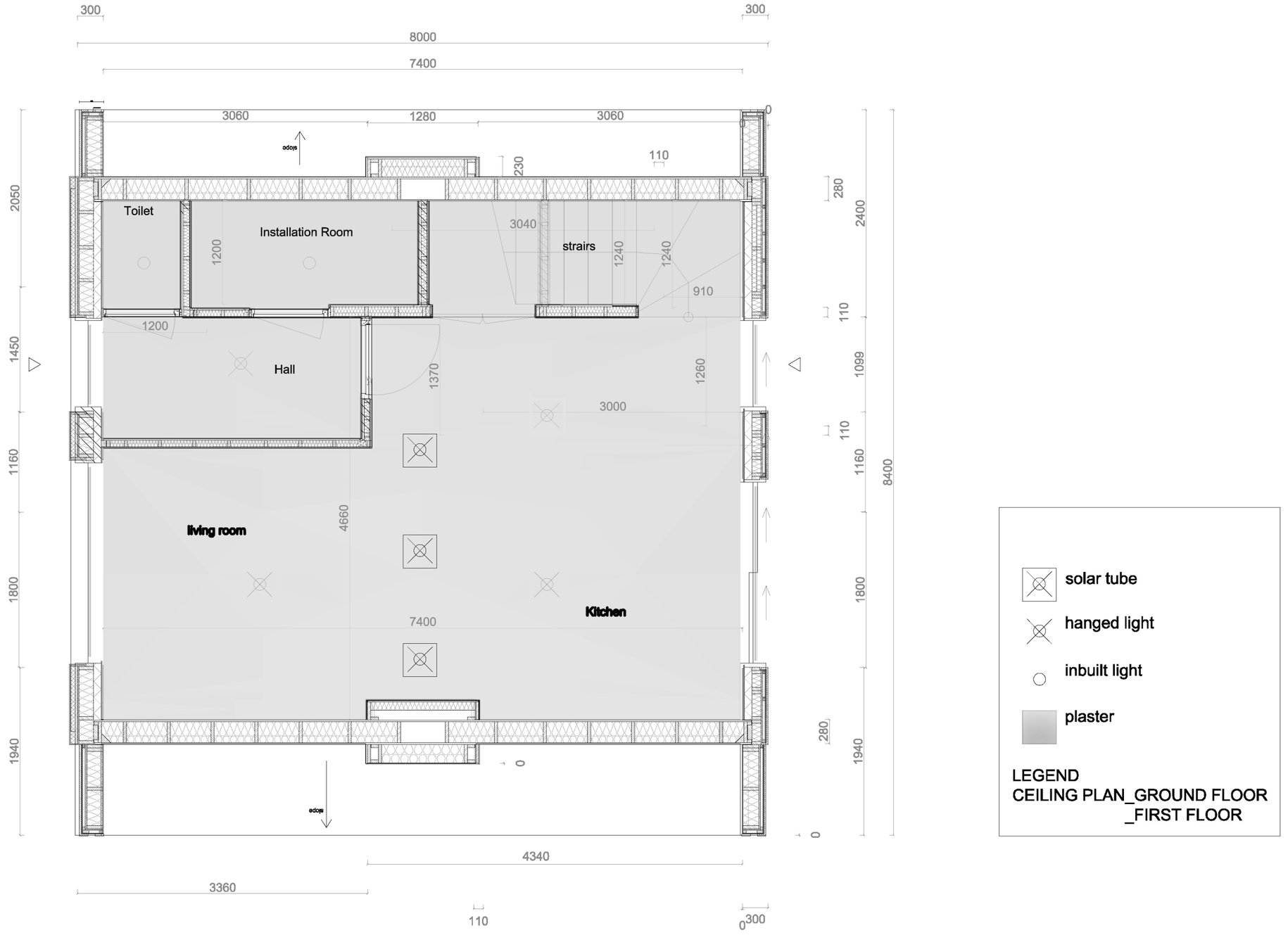
Revisions		
4	--.--.----	-
3	--.--.----	-
2		
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

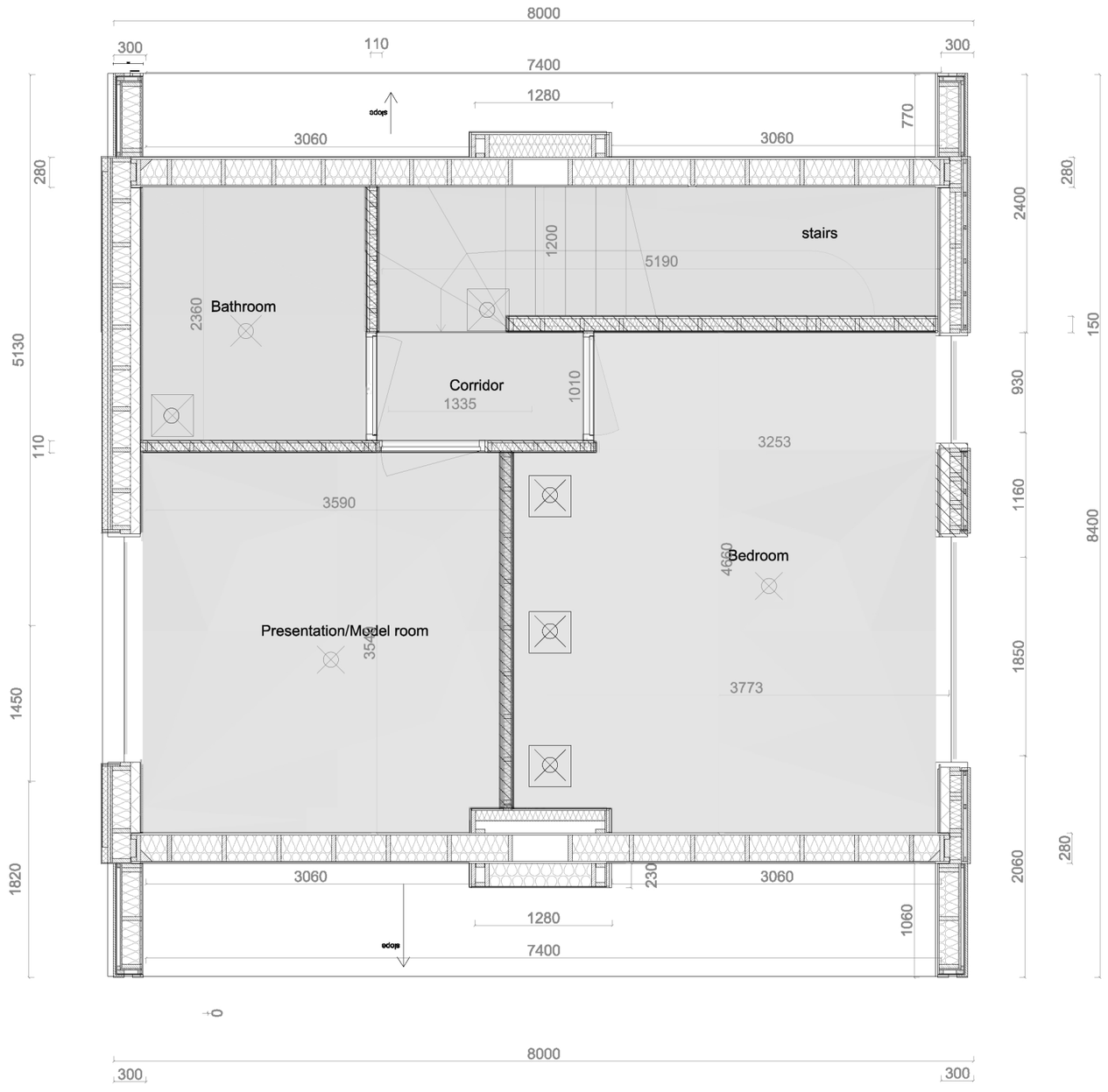
Drawing Code: **IN-002**

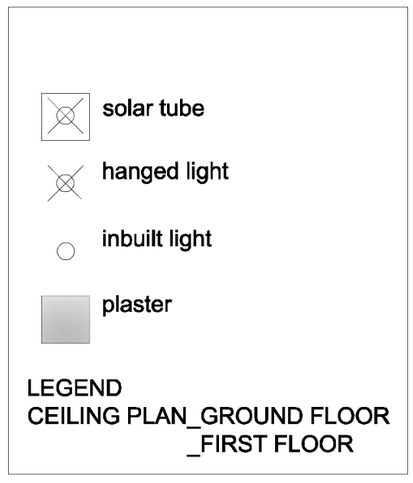
A3



Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: DESIGN DOCUMENTATION DOCUMENTATION	Paper Size: A3
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Block: GENERAL DRAWINGS	Drawing Scale: -
		Drawing Subject: REFLECTED CEILING PLAN GROUNDFLOOR	Drawing Code: IN-101

A3





Awarding Institution: Solar Decathlon Europe	Suporting Institution: TUDelft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 03.03.2014 — Del. 4
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: DESIGN DOCUMENTATION DOCUMENTATION	Paper Size: A3
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Block: GENERAL DRAWINGS	Drawing Scale: -
		Drawing Subject: REFLECTED CEILING PLAN FIRST FLOOR	Drawing Code: IN-102

A3

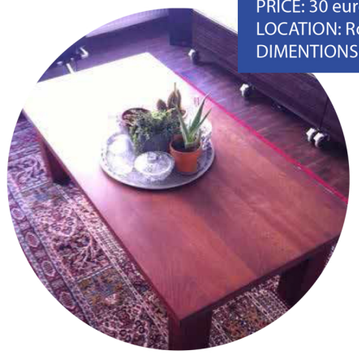
OBJECT: Shoes box
PRICE: 10 euros
LOCATION: Heinkenszand



OBJECT: Sofa
PRICE: free
LOCATION: Rotterdam
DIMENTIONS: 200/250 x 75/100 cm



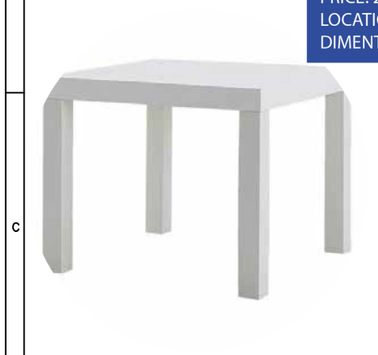
OBJECT: Low table
PRICE: 30 euros
LOCATION: Rotterdam
DIMENTIONS: 50/75 x 50/100 x 100/150 cm



OBJECT: 4 Chairs
PRICE: free
LOCATION: Papendrech



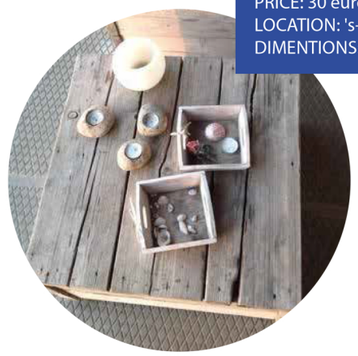
OBJECT: Bedside table (Ikea style)
PRICE: 2,5 euros
LOCATION: Ridderkerk
DIMENTIONS: 45/60 x 55 cm



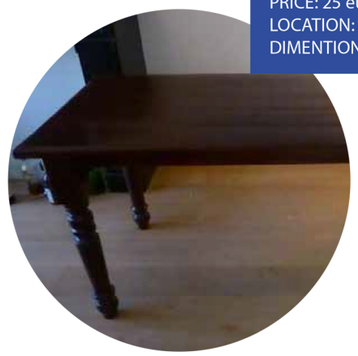
OBJECT: Book Set
PRICE: 4 euros
LOCATION: Apeldoorn

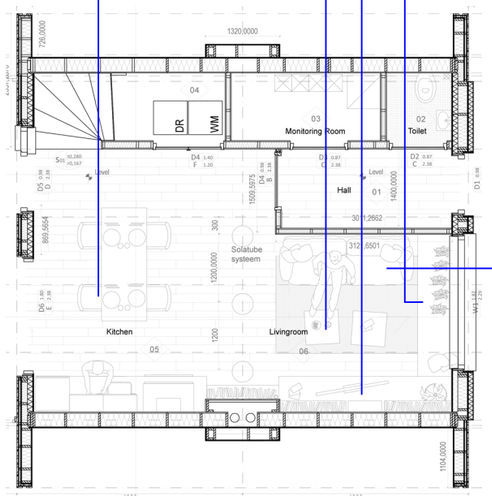


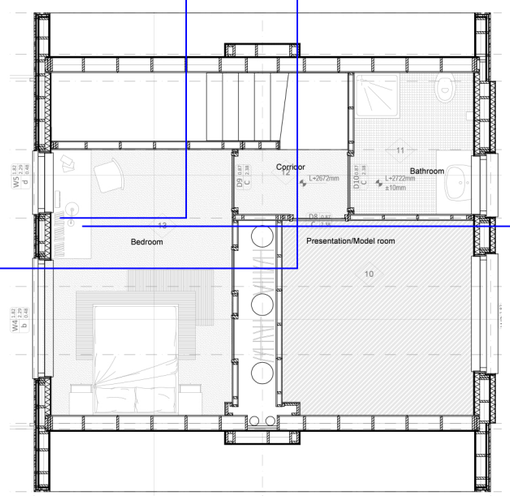
OBJECT: 2 Little wooden table (exterior)
PRICE: 30 euros
LOCATION: 's-Gravenhage
DIMENTIONS: 50/100 x 50/100 cm



OBJECT: Old style wooden table
PRICE: 25 euros
LOCATION: 's-Gravenhage
DIMENTIONS: 50/100 x 150/200 cm







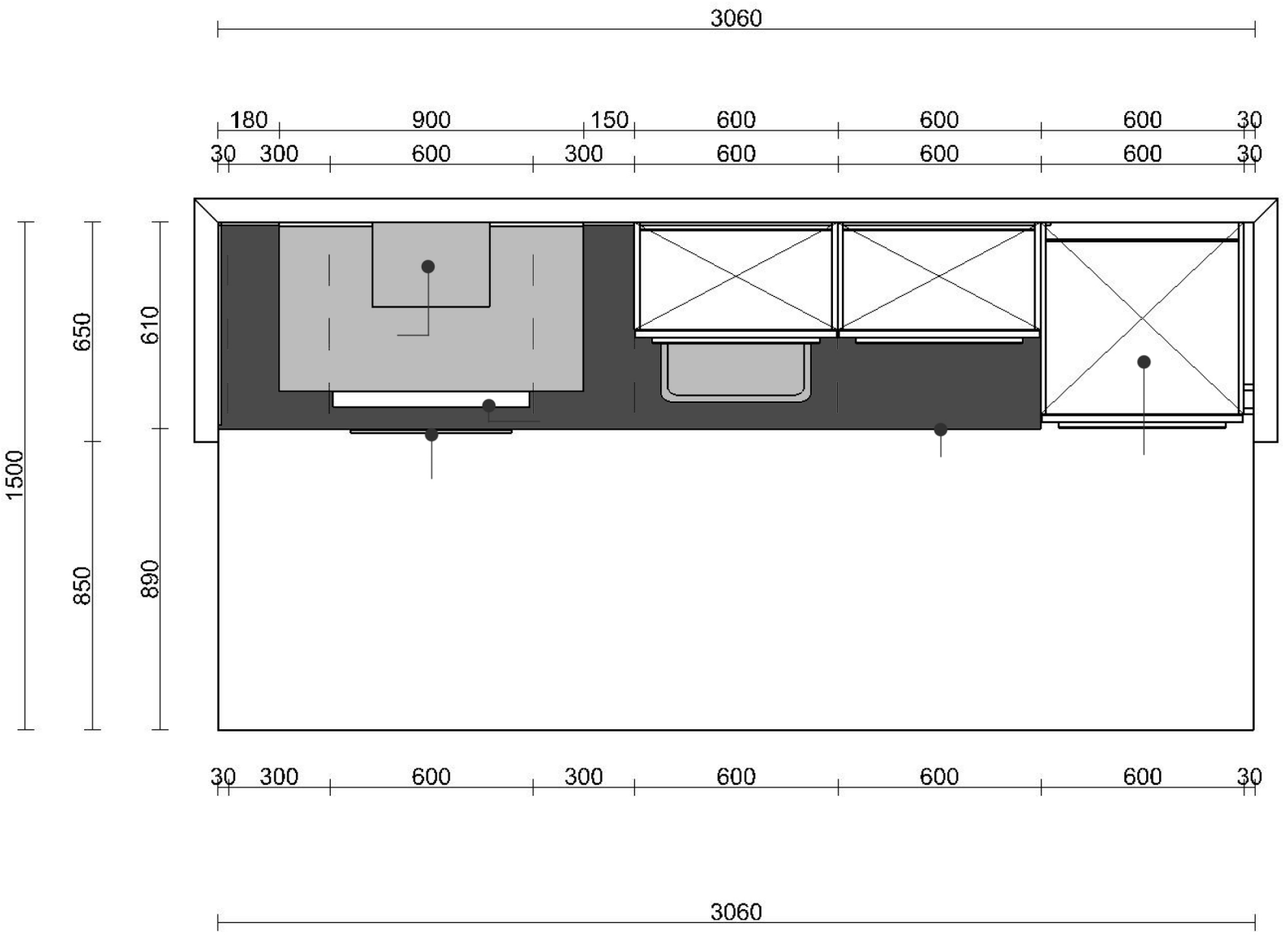
Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft
Contestant: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	DESIGN DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	FURNISHINGS FIRST FLOOR

Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size	A3
Drawing Scale	-
Drawing Code	IN-301

A3



KITCHEN : BRUYNZEEL KEUKENES

www.bruynzeel keukenes .nl

KITCHEN MATERIALS AND FINISHING

Kitchen worktop : Beton Licht (concrete light)

Cabinets: Toscana XGDO018 / white W112 wit

Sink: PRO 112

Tap: Excellent

Crane: solid aqua premiu

KITCHEN APPLIANCES

1. Oven : HBA63B151S, company : Bosch, Energy label: A-30%, Dimension : 90x60
2. Hard plates : NVF645H15E, company : Bosch , Dimension : 560 x 490 x 400
3.
4. Waching Machine : WAE28266NL, company : Bosch , Dimension : 84.8 x 60.
5. Refrigerator : KGE36MW40, company : Bosch, Energy label: A+++, Dimension : 186x60x65

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 03.03.2014 — Del. 4
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: -
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: KITCHEN PLAN	Drawing Code: IN-401

A3



KITCHEN : BRUYNZEEL KEUKENES

www.bruynzeel keukenes .nl

KITCHEN MATERIALS AND FINISHING

Kitchen worktop : Beton Licht (concrete light)

Cabinets: Toscana XGDO018 / white W112 wit

Sink: PRO 112

Tap: Excellent

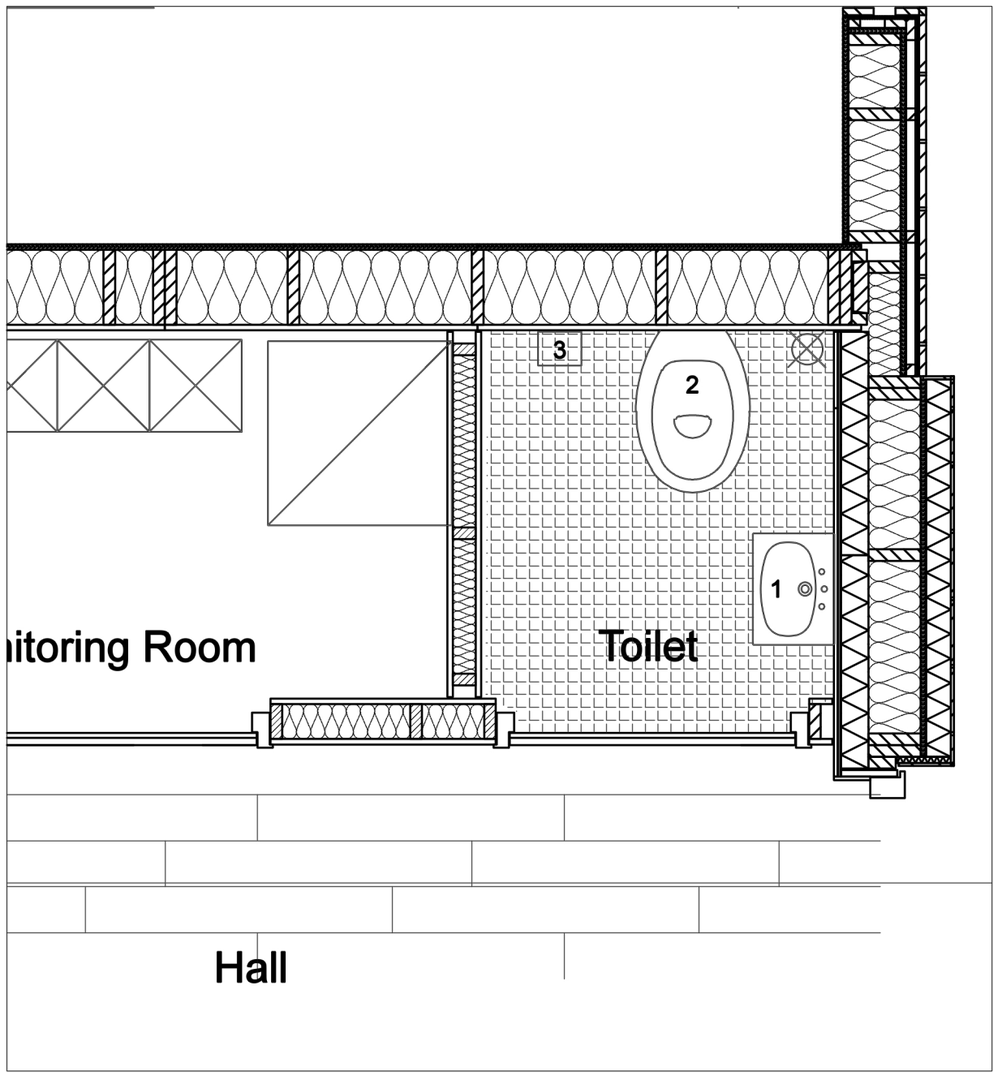
Crane: solid aqua premiu

KITCHEN APPLIANCES

1. Oven : HBA63B151S, company : Bosch, Energy label: A-30%, Dimension : 90x60
2. Hard plates : NVF645H15E, company : Bosch , Dimension : 560 x 490 x 400
3.
4. Waching Machine : WAE28266NL, company : Bosch , Dimension : 84.8 x 60.
5. Refrigerator : KGE36MW40, company : Bosch, Energy label: A+++, Dimension : 186x60x65

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger Home with a Skin		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: -
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: KITCHEN ELEVATION	Drawing Code: IN-411

A3



BATHROOM FIXTURES

1. compact sink : O.novo fontein compact
company : Villeroy and Boch
dimension : 360x275x40 mm

. mirror : ENUDDEN
company : ikea
dimension : 400x580 mm

2. toilet : wc combi-pack
company : Villeroy and Boch
dimension : 360x275x40 mm

3. Toilet roll holder : BALDER
company : ikea
dimension : 170x130x100 mm

BATHROOM FINISHING

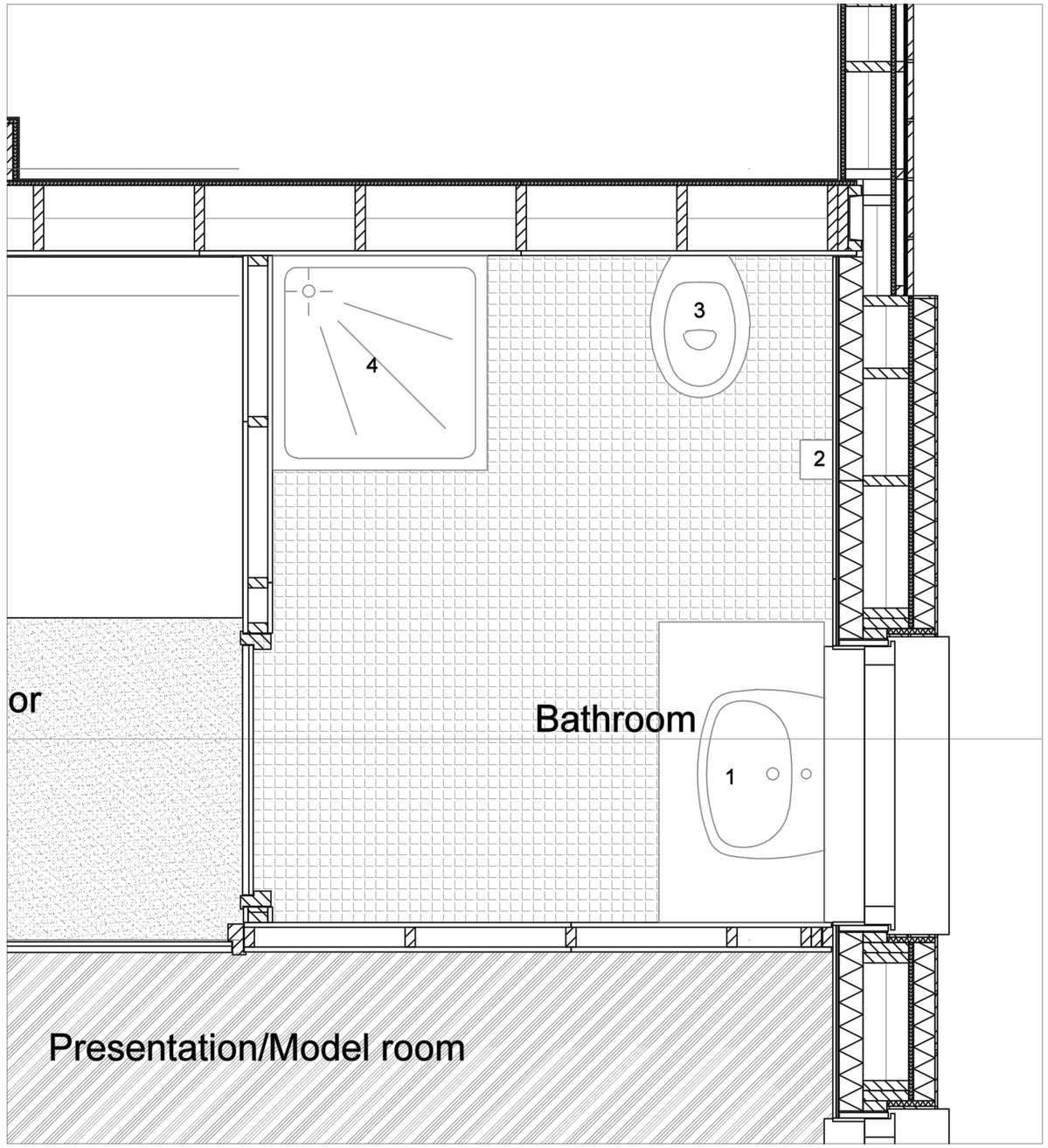
cladding : chipboard painted 180mm

cladding : chipboard painted 180mm

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 –.–.— -; 3 –.–.— -; 2 –.–.— -; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Side		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: INTERIOR DRAWINGS	Drawing Scale: 1:20
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: GROUND FLOOR BATHROOM PLAN	Drawing Code: IN-501

A3



BATHROOM FIXTURES

1. Sink :	WASTAFEL
	company : Villeroy and Boch
	dimension : 600x490x150 mm
.thermostat tap/mixer :	COSTAL
	company : Villeroy and Boch
	dimension : 600x490x150 mm
.Sink Cabinets :	GODMORGON/ ODENSVIK
	company : ikea
	dimension : 120x49x64 cm
. sink mirror :	ENUDDEN
	company : ikea
	dimension : 400x580 mm
2. Toilet roll holder :	BALDER
	company : ikea
	dimension : 170x130x100 mm
3. toilet :	COMBI-PACK
	company : Villeroy and Boch
	dimension : 680x705x385 mm
. duelflush	GEBERIT ACTUATOR PLATE SIGMA 01
	company : Geberit
	dimension : 240x160x10 mm
4. shower plat :	O.NOVO UDA0806DEN1V
	comapny: Villeroy and Boch
	dimension : 600x600x80 mm
.thermostat mixer	GROHTHERM 1000
	company : Grohe
.shower carrier	FERR DOUCHEB OND MINI
	company : Ferroplast
.shower set	GROHE TEMP;NG GLIJSTC II60
	company Grhoe

.

BATHROOM FINISHING

cladding : chipboard painted 180mm

cladding : chipboard painted 180mm

all measurements are in mm

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: INTERIOR DRAWINGS

Drawing Subject: FIRST FLOOR BATHROOM PLAN

Revisions

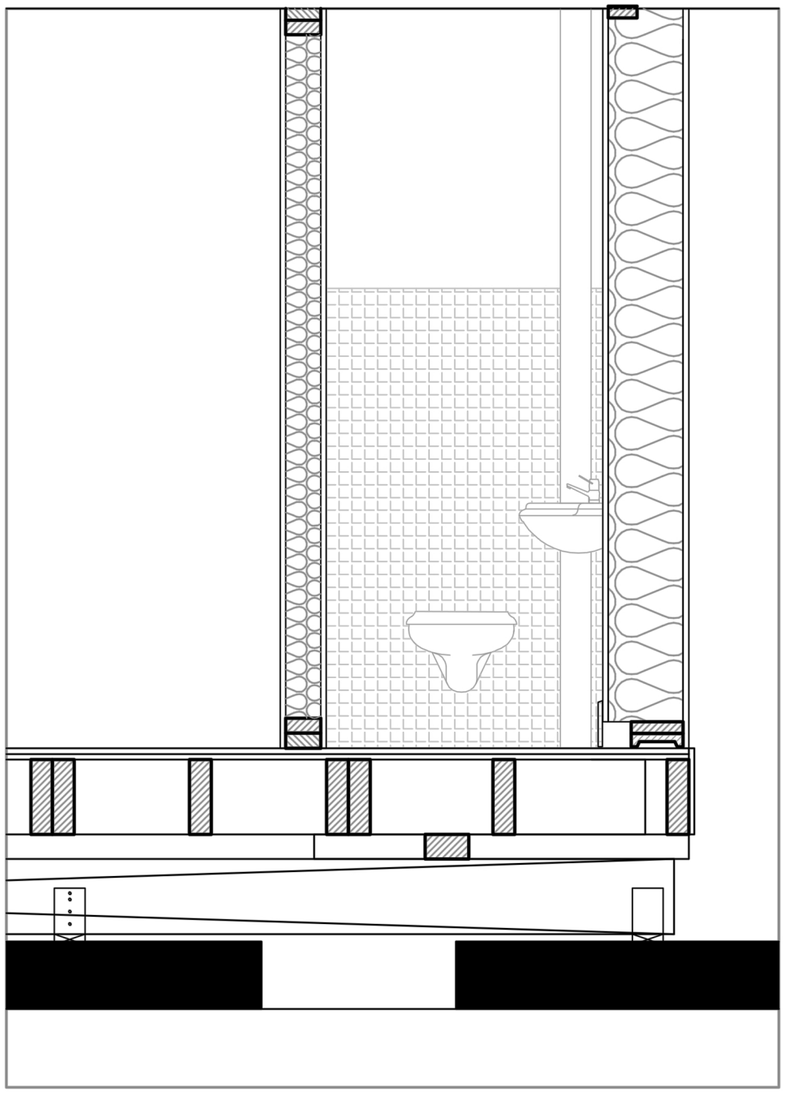
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:20

Drawing Code: IN-502

A3

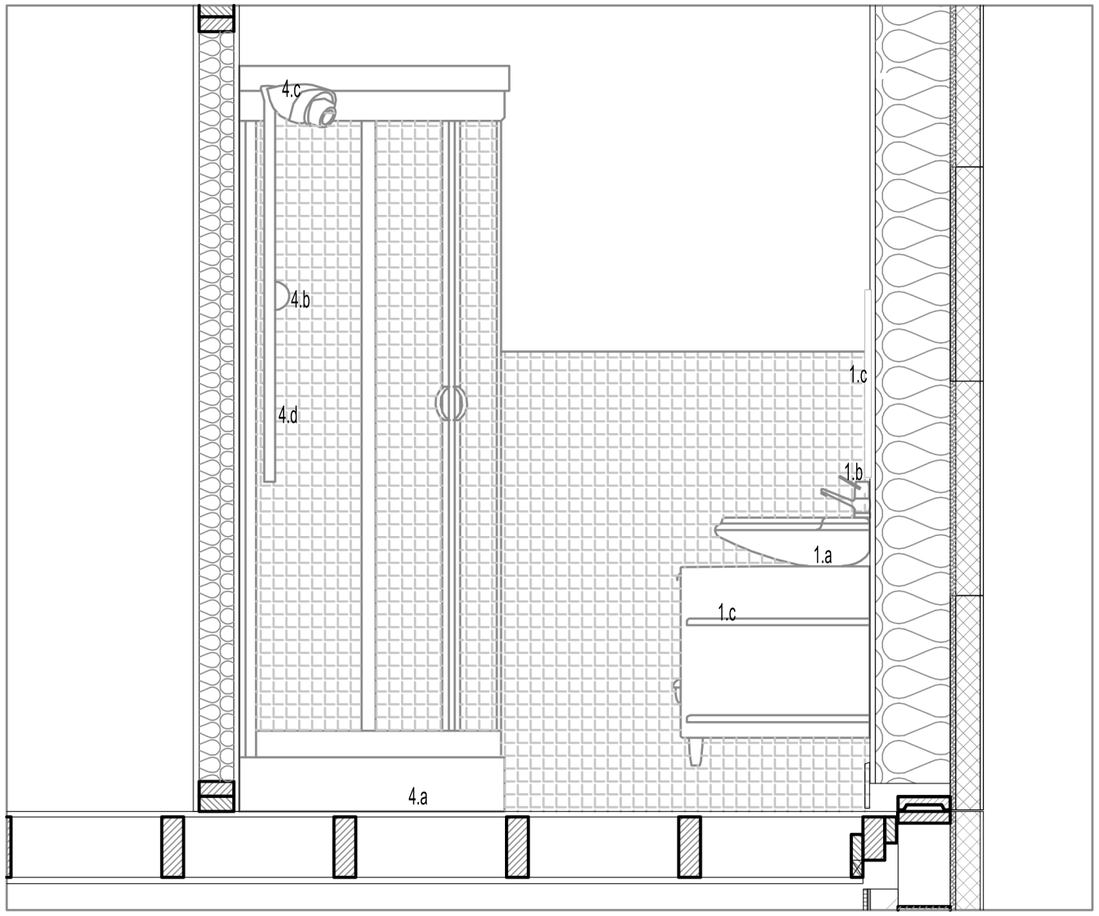


BATHROOM FIXTURES

BATHROOM FINISHING

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft
Contestant: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Project Phase: DESIGN DOCUMENTATION DOCUMENTATION	Paper Size: A3
Drawing Block: GENERAL DRAWINGS	Drawing Scale:
Drawing Subject: BATHROOM ELEVATION GROUNDFLOOR	Drawing Code: IN-511

A3



BATHROOM FIXTURES

1.a Sink :	WASTAFEL
	company : Villeroy and Boch
	dimension : 600x490x150 mm
b .thermostat tap/mixer :	COSTAL
	company : Villeroy and Boch
	dimension : 600x490x150 mm
c .Sink Cabinets :	GODMORGON/ ODENSVIK
	company : ikea
	dimension : 120x49x64 cm
d . sink mirror :	ENUDDEN
	company : ikea
	dimension : 400x580 mm
2. Toilet roll holder :	BALDER
	company : ikea
	dimension : 170x130x100 mm
3.a toilet :	COMBI-PACK
	company : Villeroy and Boch
	dimension : 680x705x385 mm
b . duelflush	GEBERIT ACTUATOR PLATE SIGMA 01
	company : Geberit
	dimension : 240x160x10 mm
4.a shower plat :	O.NOVO UDA0806DEN1V
	comapny: Villeroy and Boch
	dimension : 600x600x80 mm
b .thermostat mixer	GROHTHERM 1000
	company : Grohe
c .shower carrier	FERR DOUCHEB OND MINI
	company : Ferroplast
d .shower set	GROHE TEMP;NG GLIJSTC II60
	company Grhoe
	dimension :600 mm

.

BATHROOM FINISHING

cladding : chipboard painted 180mm

cladding : chipboard painted 180mm

Awarding Institution	Suporting Institution	Project Location	Revisions
Solar Decathlon Europe	TUDelft	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	4 | 3 | 2 | 1 | 03.03.2014 | Del. 4
Contestant		Project Phase	Paper Size
Prêt-à-Loger Home with a Skin		DESIGN DOCUMENTATION DOCUMENTATION	A3
Project Title		Drawing Block	Drawing Scale
DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		GENERAL DRAWINGS	-
		Drawing Subject	Drawing Code
		BATHROOM ELEVATION FIRST FLOOR	IN-512

A3



Awarding Institution	Suporting Institution
Solar Decathlon Europe	TU Delft
Contestant	
Prêt-à-Loger — Home with a Skin	
Project Title	
DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	DESIGN DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	INTERIOR RENDERING - KITCHEN IMPRESSION

Revisions		
4		
3		
2		
1	03.03.2014	Del. 4
Paper Size	A3	
Drawing Scale	-	
Drawing Code	IN-601	

A3



Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	STOMPERSDIJK, HONSELERSDIJK, NL
Project Phase	DESIGN DOCUMENTATION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	INTERIOR RENDERING- SUMMER IMPRESSION

Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size: A3

Drawing Scale: -

Drawing Code: **IN-602**

A3



Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	STOMPERSDIJK, HONSELERSDIJK, NL
Project Phase	DESIGN DOCUMENTATION DOCUMENTATION
Drawing Block	INTERIOR DRAWINGS
Drawing Subject	INTERIOR RENDERING- SUMMER IMPRESSION

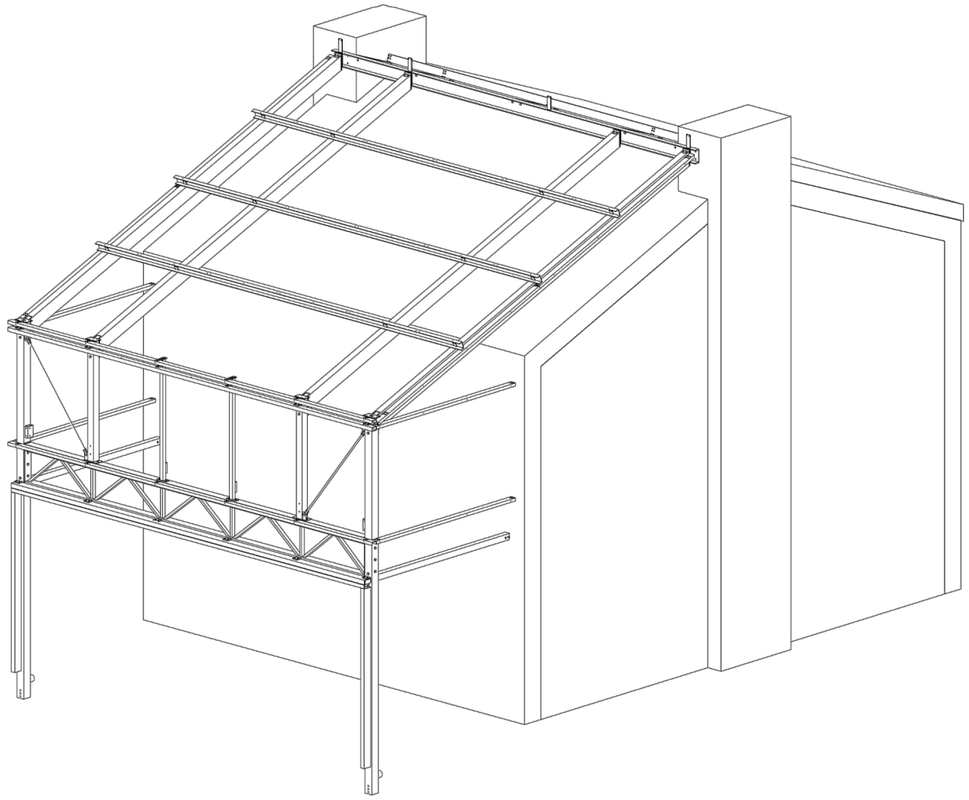
Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

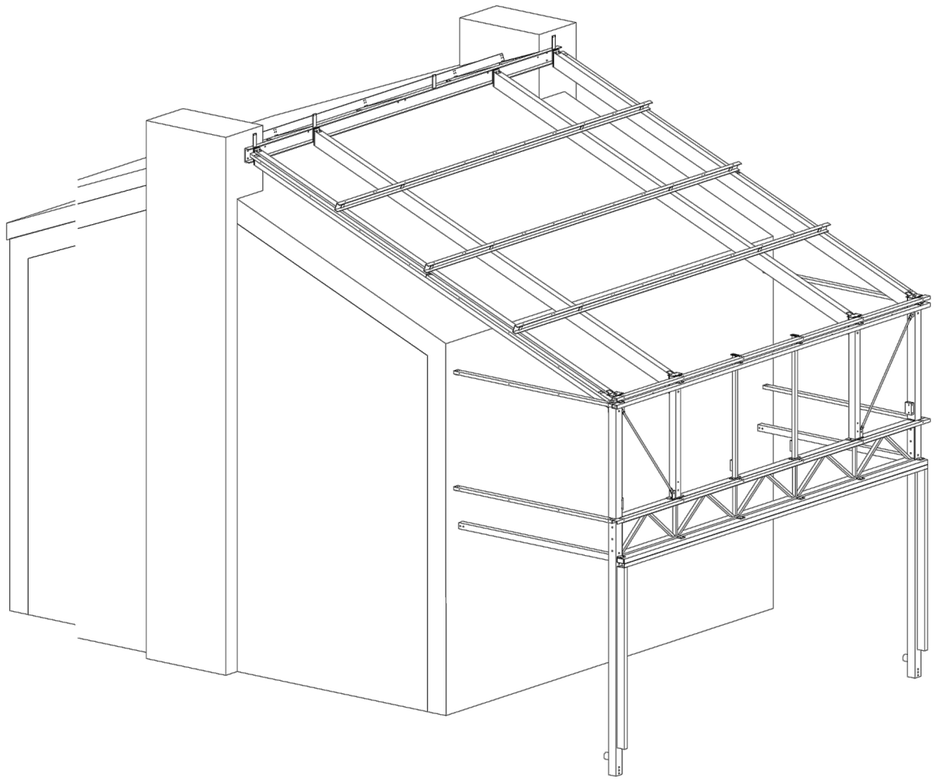
Paper Size: A3

Drawing Scale: -

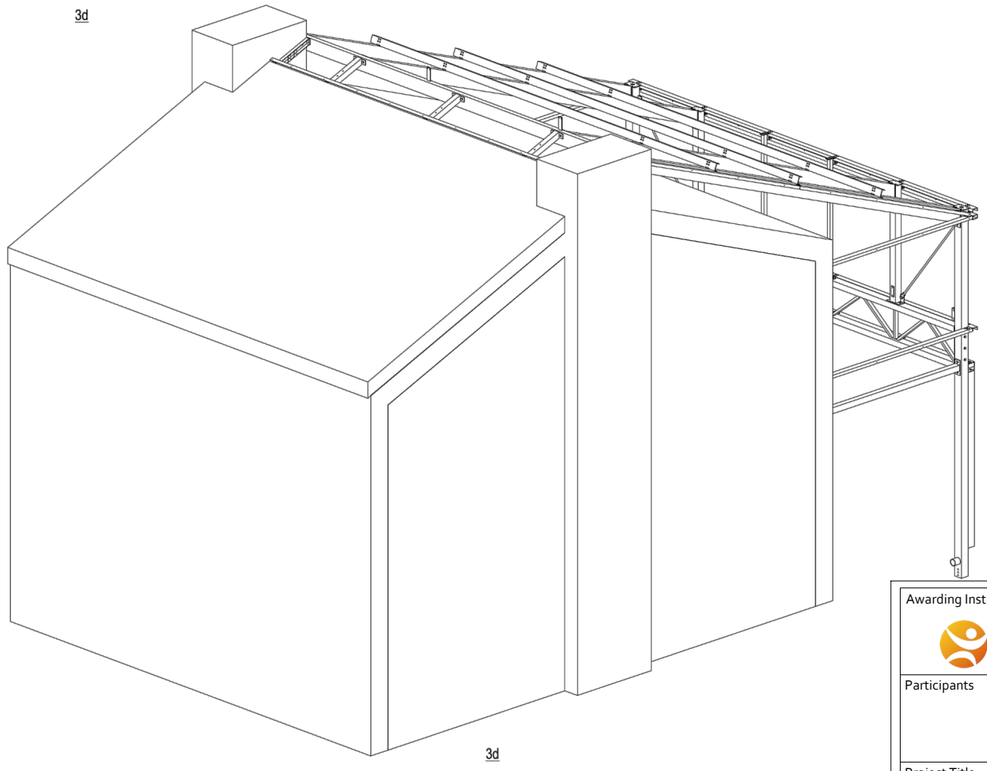
Drawing Code: **IN-603**

A3





3d



3d

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: Structural plans	
Drawing Subject: Glasshouse - overview	

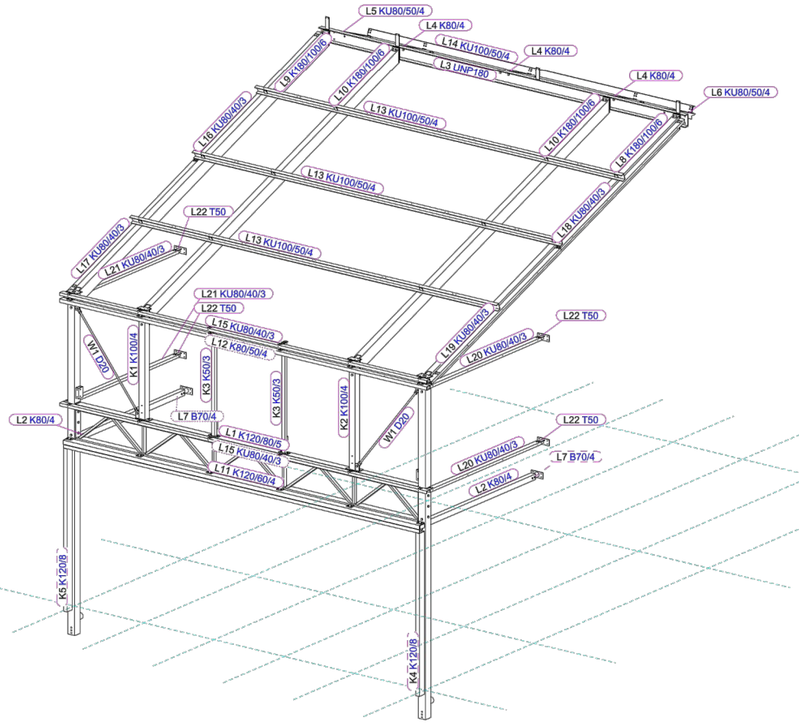
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

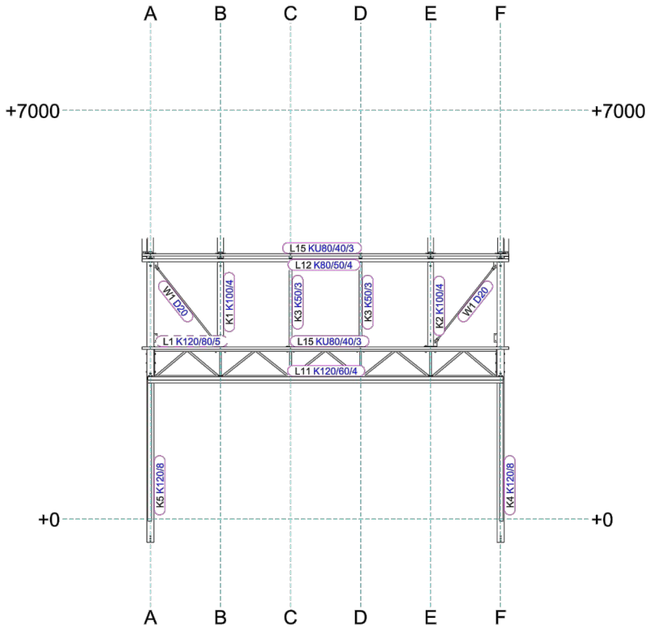
Paper Size: A3

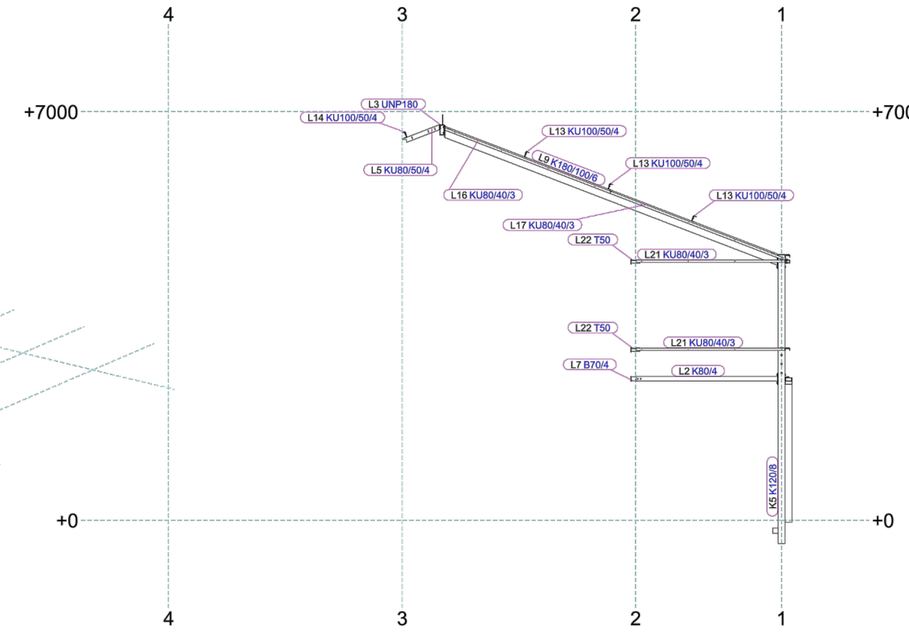
Drawing Scale: 1:100

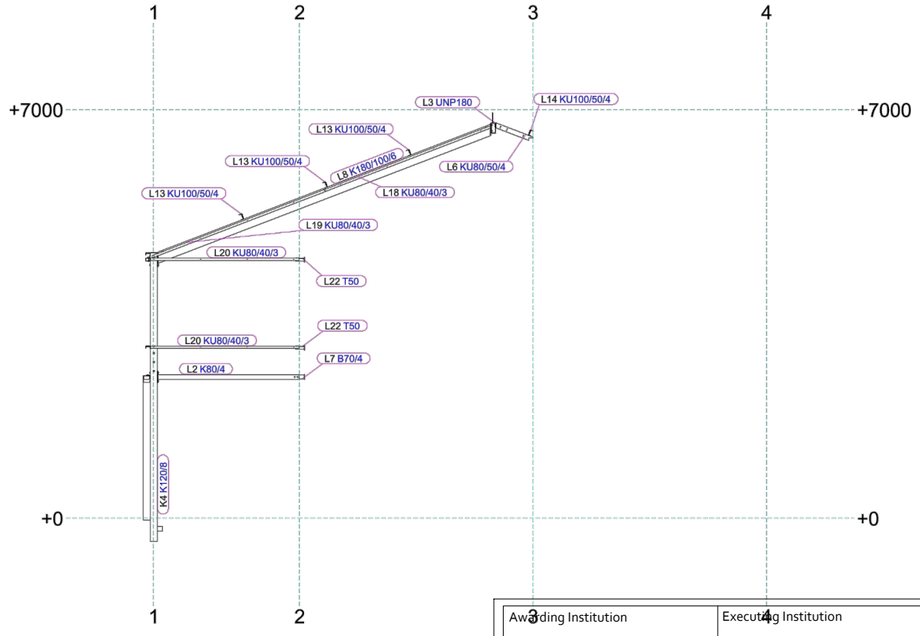
Drawing Code: **ST-202**

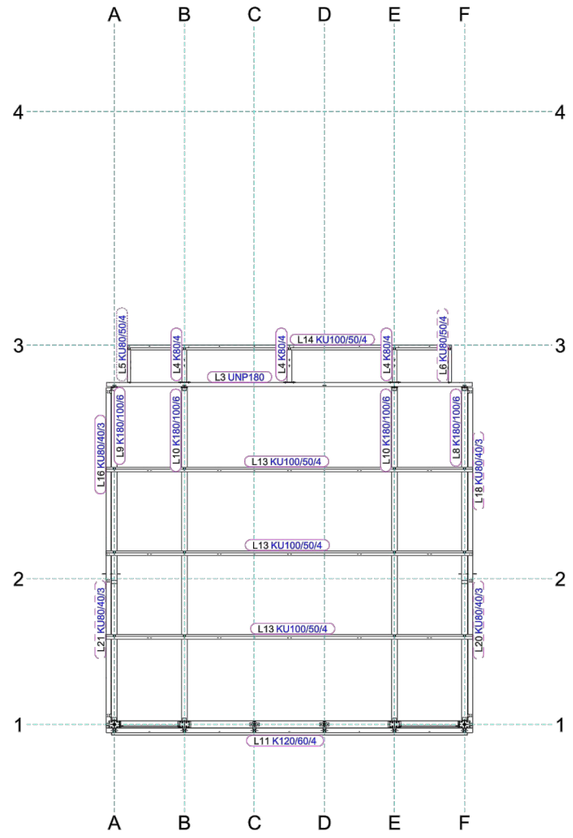
A3











Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: Structural plans	
Drawing Subject: Glasshouse - structural sections overview	

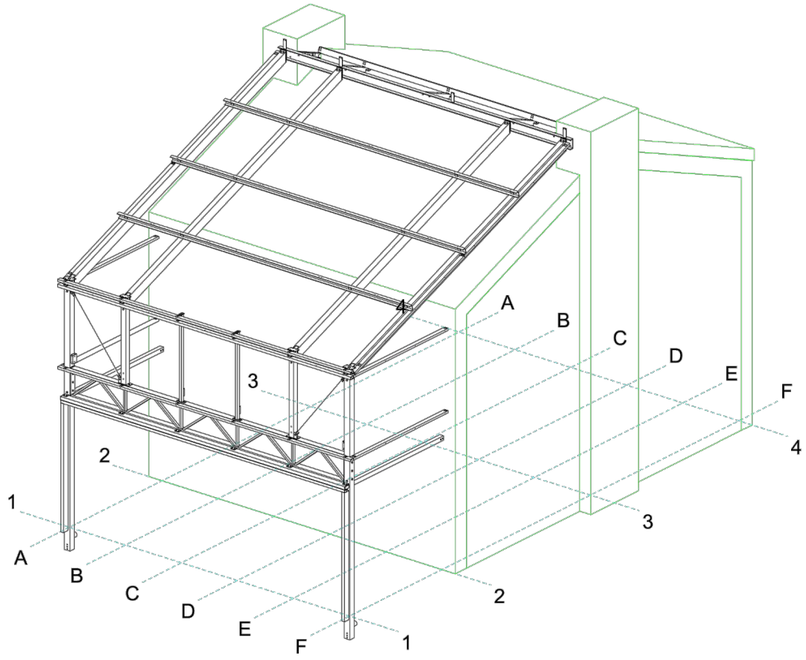
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

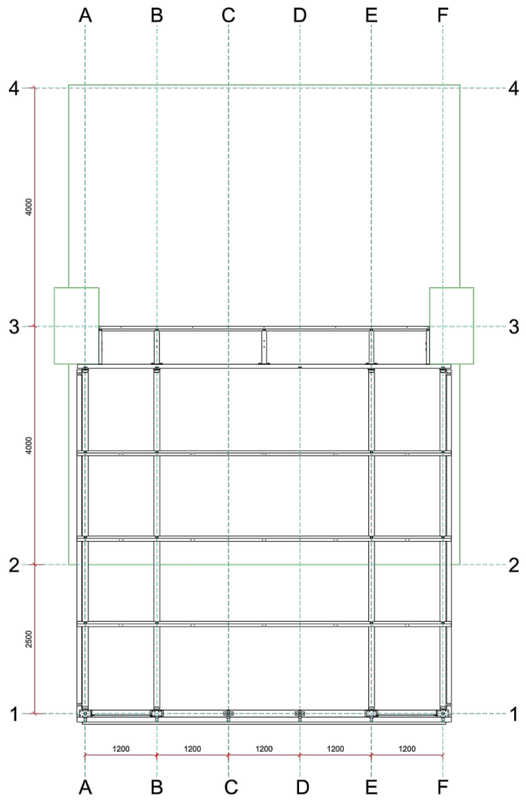
Drawing Scale: 1:100

Drawing Code: **ST-203**

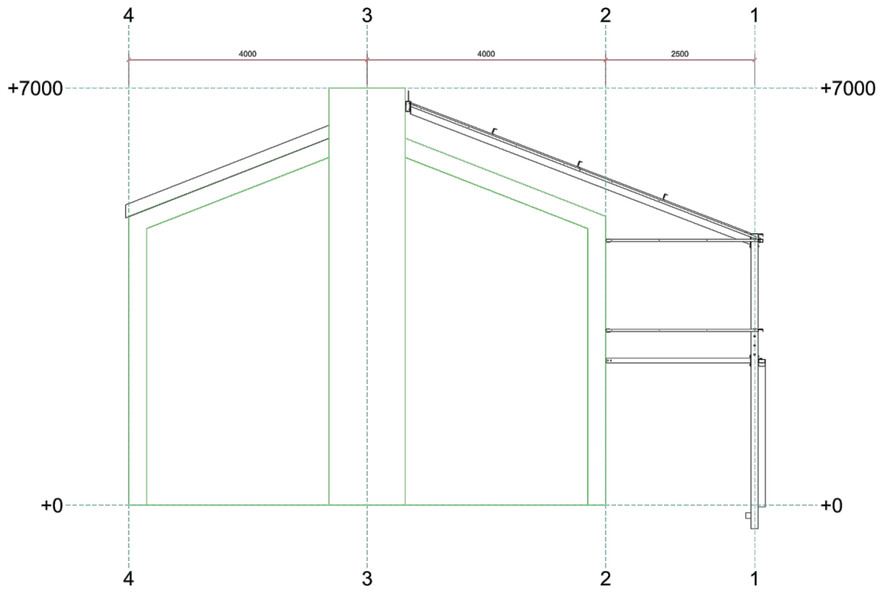
A3



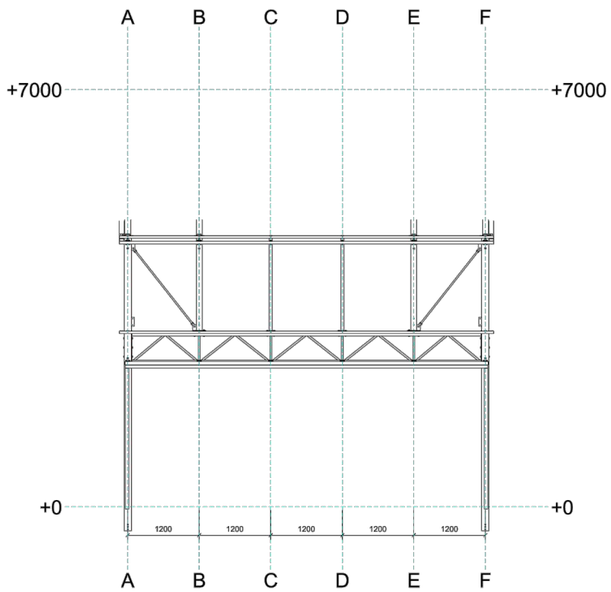
3d



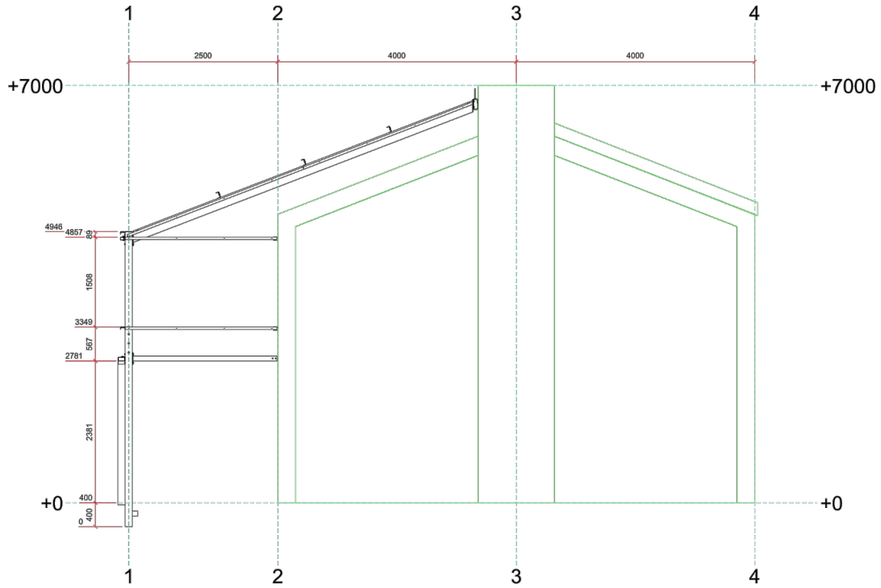
Plan



Section A



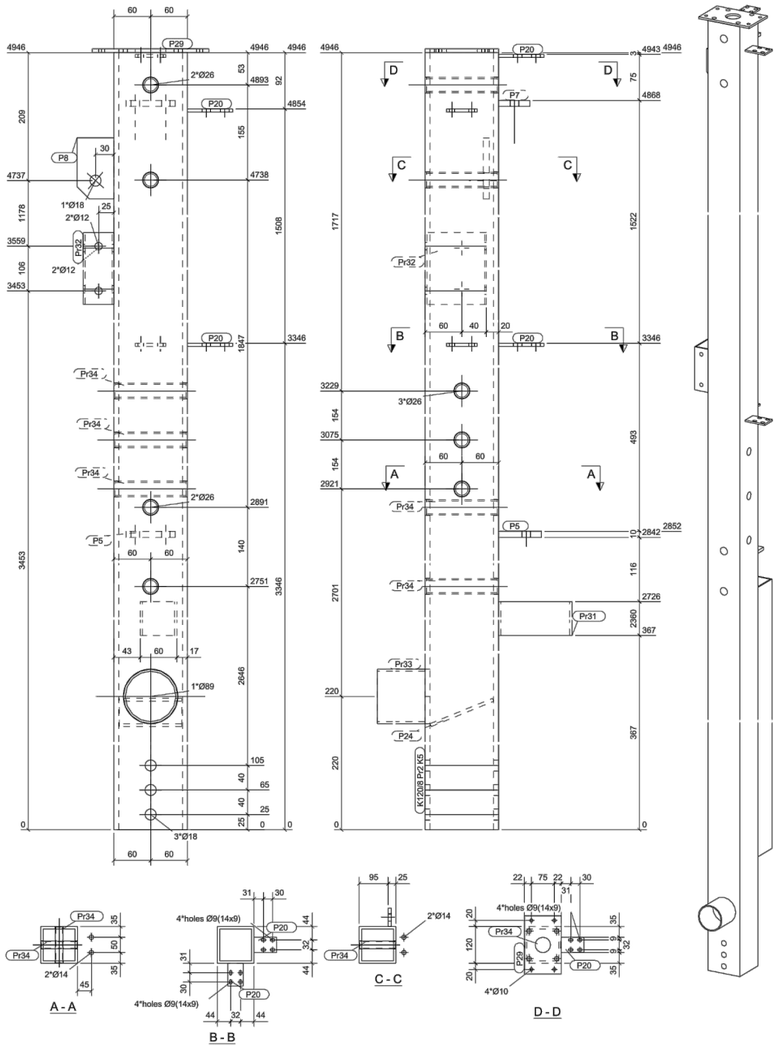
Section 1

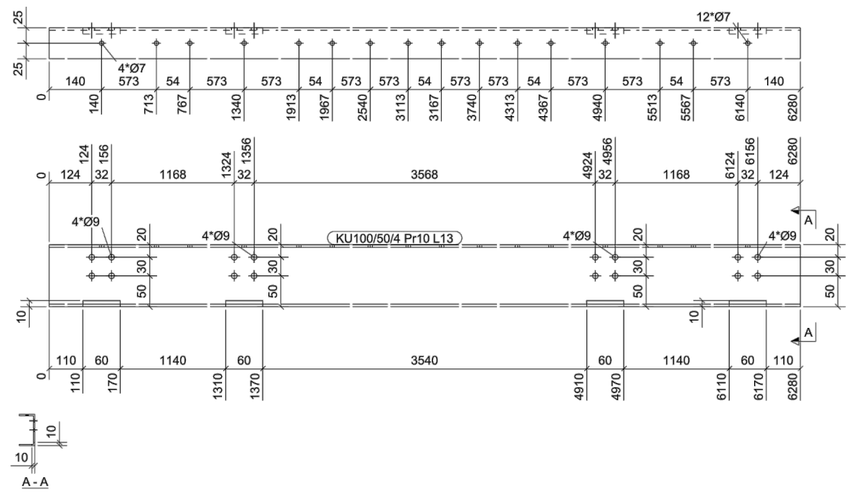


Section F

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 ; 3 ; 2 28.04.2014 DEL #5 ; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: Structural plans	Drawing Scale: 1:125
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: Glasshouse - dimensioning	Drawing Code: ST-204

A3





Component list	Element: L13		length (mm): 6280 Amount: 3	
Pos	Profile	Material	Amount	Length (mm)
Pr10	KU100/50/4 Cold formed U profile	S235JR	1	6280

Component list	Element: K5		length (mm): 4952 Amount: 1	
Pos	Profile	Material	Amount	Length (mm)
P5	STRIP10*70	S235JR	1	80
P7	STRIP10*80	S235JR	1	51
P8	STRIP10*60	S235JR	1	100
P20	STRIP5*50	S235JR	4	74
P24	STRIP5*110	S235JR	1	102
P29	STRIP6*120	S235JR	1	190
Pr2	K120/8	S235JR	1	4946
Pr31	K120/60/4	S235JR	1	2360
Pr32	K100/50/3	S235JR	1	150
Pr33	B88.9/3.2	S235JR	1	90
Pr34	B25/2	S235JR	7	116

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger – Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: Structural plans

Drawing Subject: Glasshouse - main details

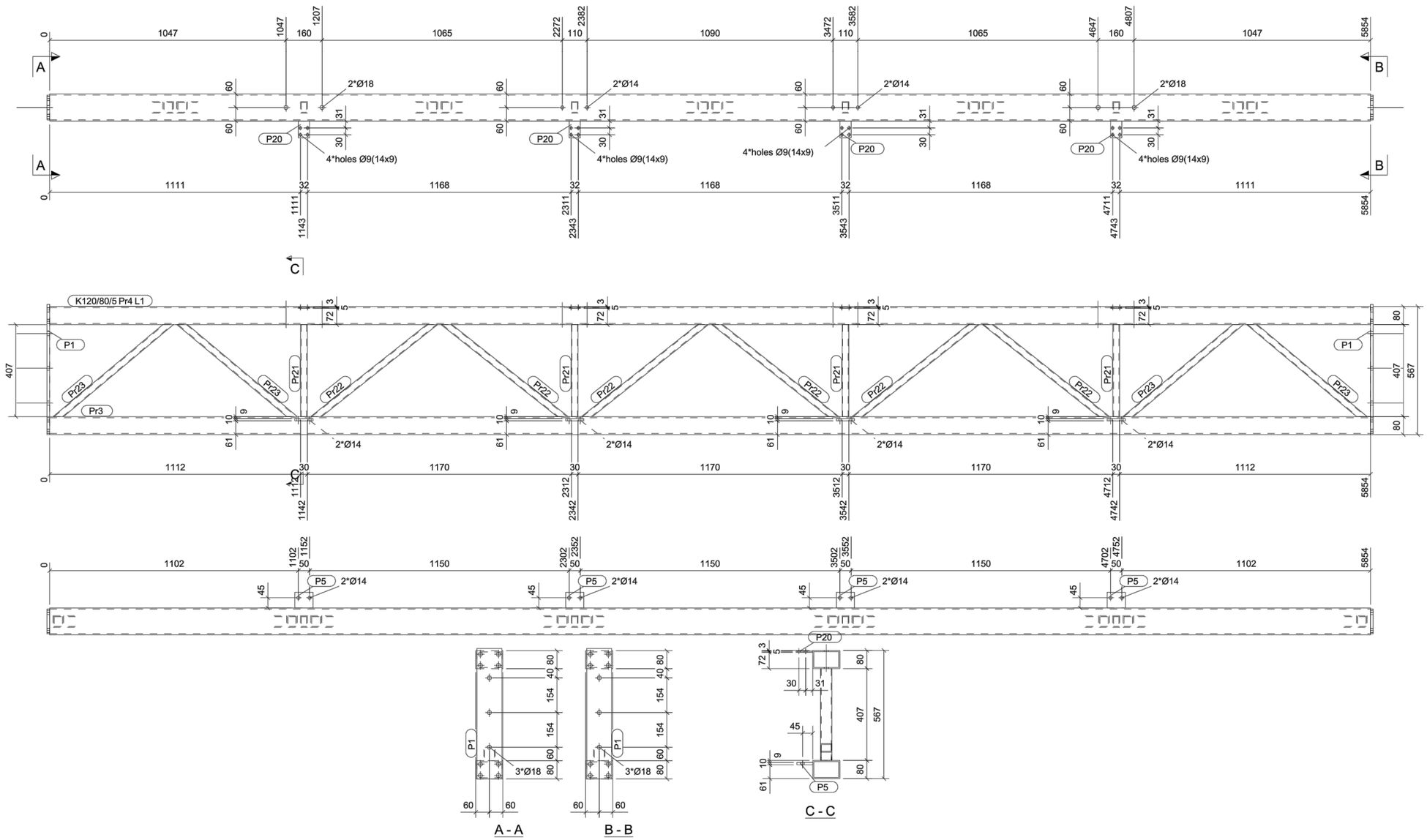
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:10

Drawing Code: **ST-303**

A3



Component list	Element: L1		Length (mm): 5878 Amount: 1	
Pos	Profile	Material	Amount	Length (mm)
P1	STRIP12*110	S235JR	2	577
P5	STRIP10*70	S235JR	4	80
P20	STRIP5*50	S235JR	4	74
Pr3	K120/80/5 (RHS)	S235JR	1	5854
Pr4	K120/80/5 (RHS)	S235JR	1	5854
Pr21	K50/30/3 (RHS)	S235JR	4	407
Pr22	K50/30/3 (RHS)	S235JR	6	694
Pr23	K50/30/3 (RHS)	S235JR	4	671

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: Structural plans

Drawing Subject: Glasshouse - frame details

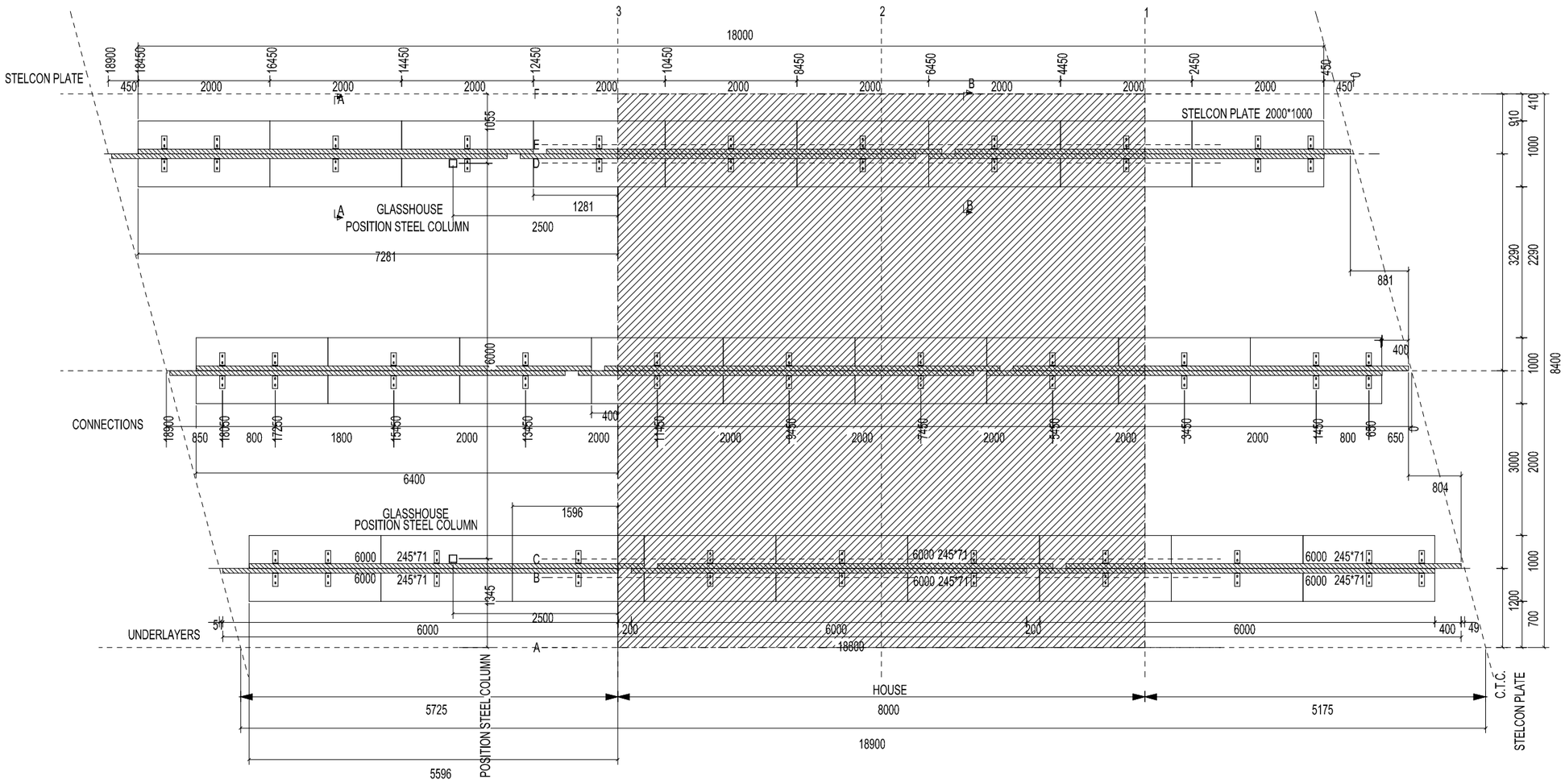
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

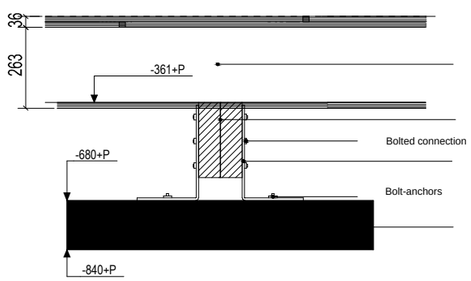
Paper Size: A3

Drawing Scale: 1:20

Drawing Code: **ST-304**

A3





Timber frame
ground floor panels
245mm height

2 Timber beams -
245x71

2 steel L-shaped
connection elements
300x190x80
11mm thickness

Stelcon N-plaat code
AA 1000x2000mm
160mm thickness

---INFORMATION---

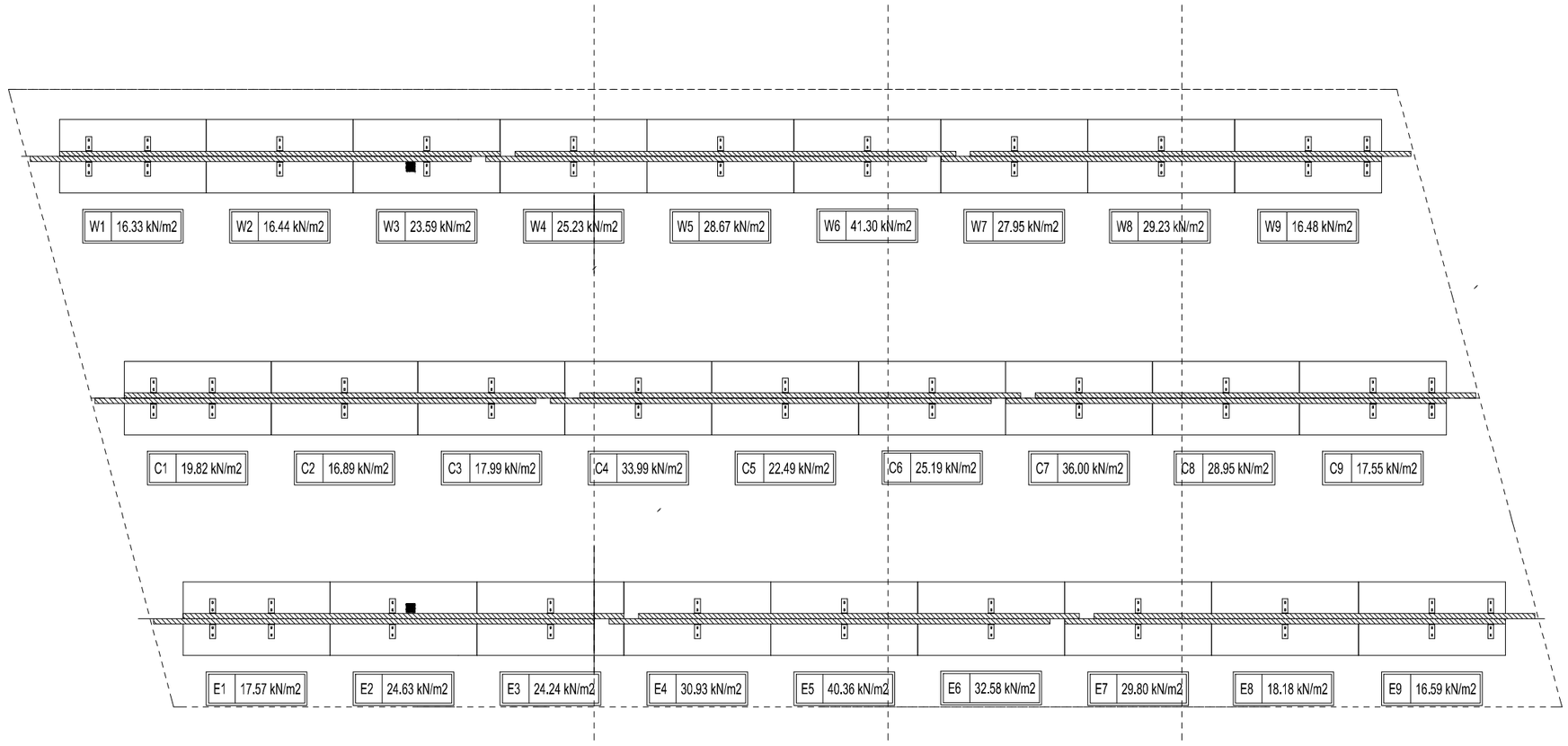
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Foundation Plan and Details

Revisions			
4			
3			
2	28.04.2014	DEL #5	
1	03.03.2014	DEL #4	

Paper Size: A3
Drawing Scale: 1:75
Drawing Code: **ST-001**

A3

---INFORMATION---



Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Load Bearing Pressure Plan (max)

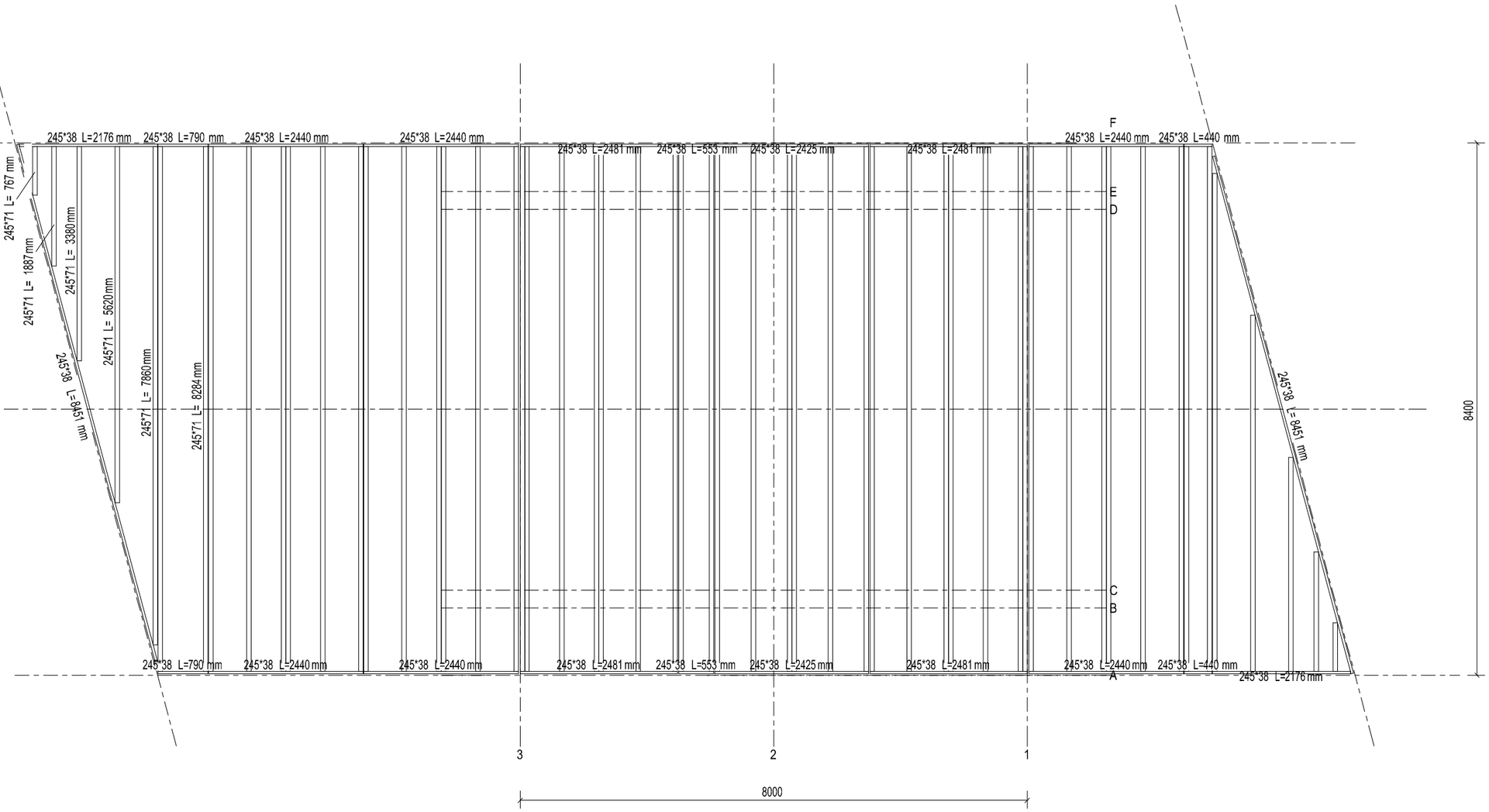
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:75

Drawing Code: **ST-002**

A3



---INFORMATION---

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Ground Floor Plan

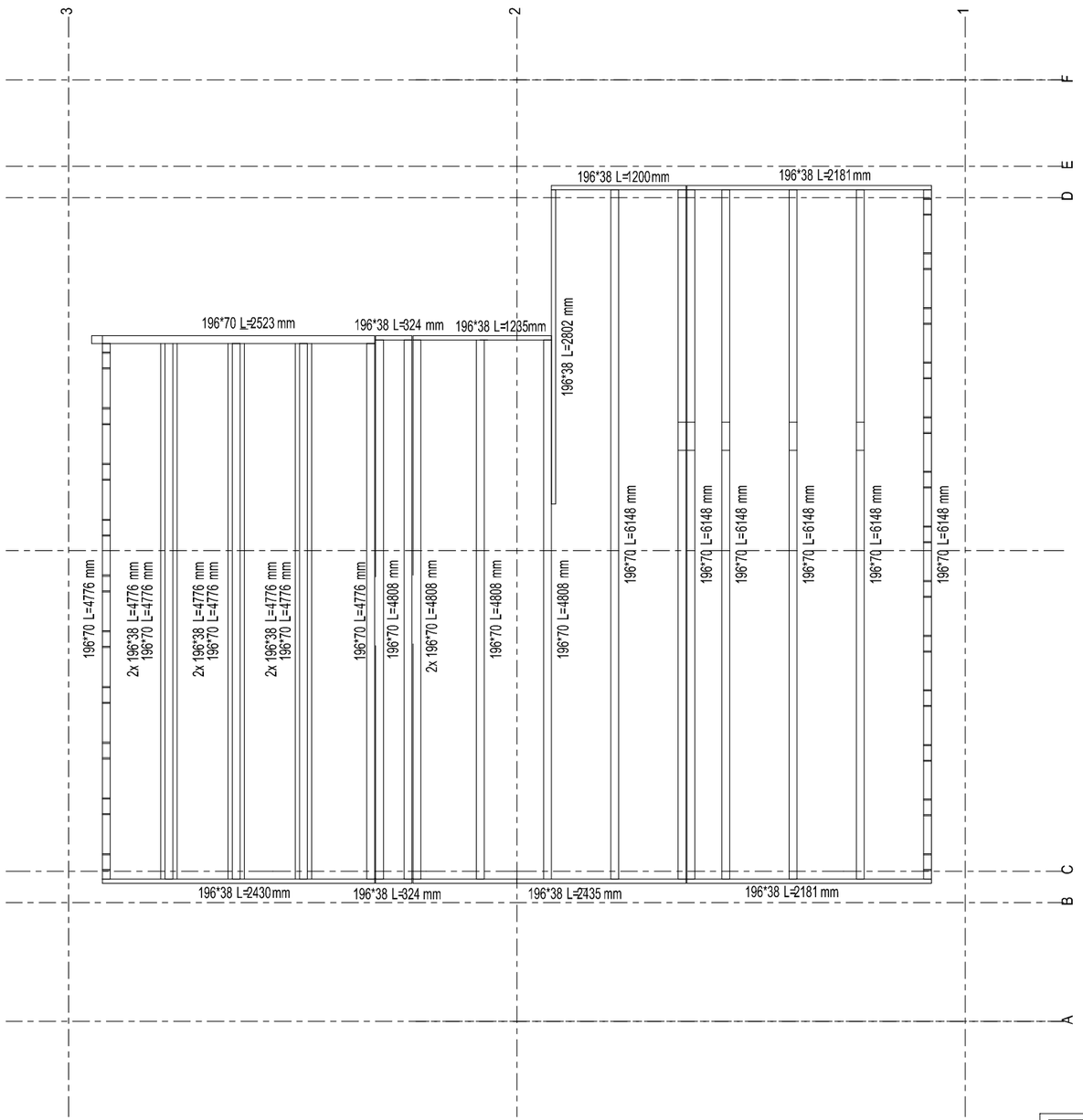
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:75

Drawing Code: **ST-011**

A3



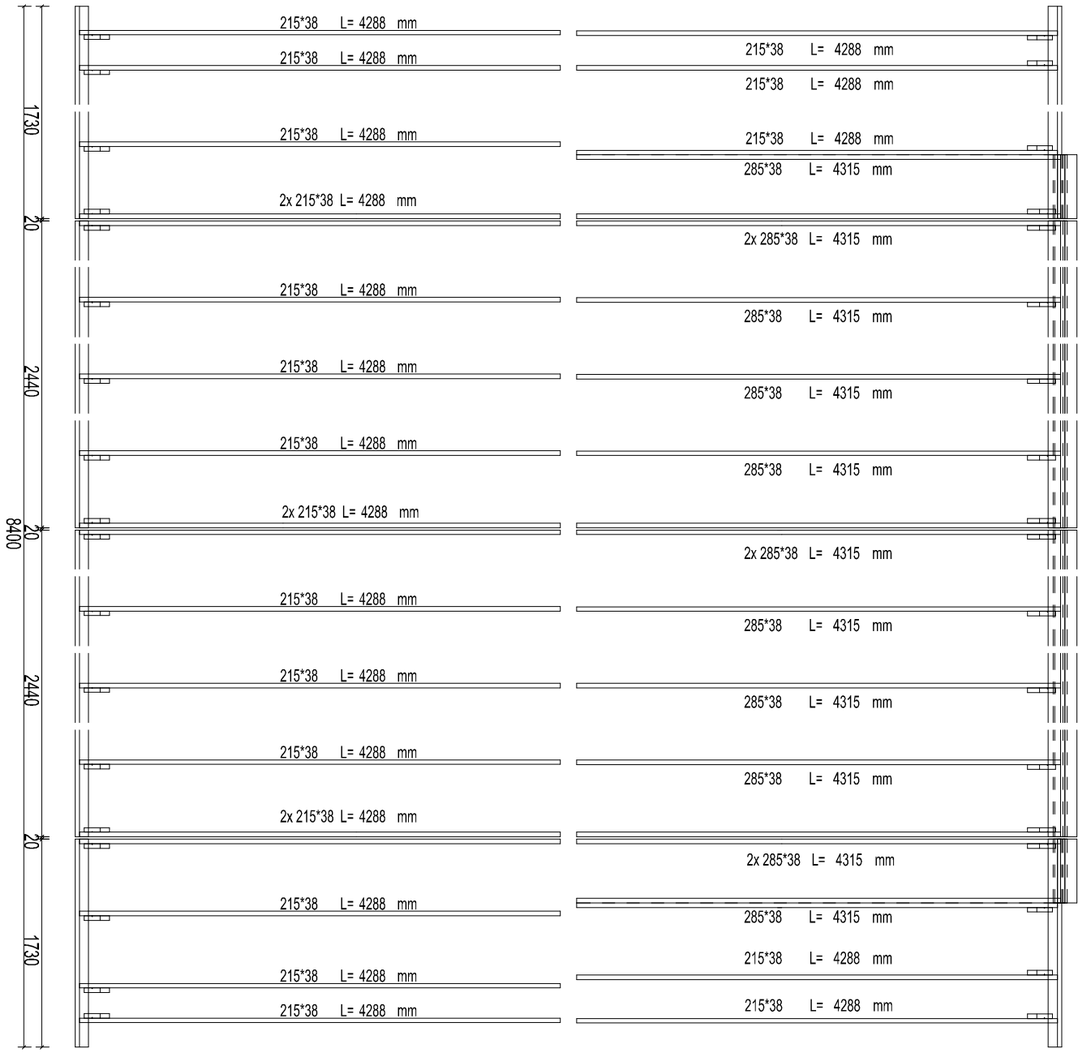
---INFORMATION---

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural First Floor Plan

Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	**ST-012**

A3



---INFORMATION---

Awarding Institution	Executing Institution
Solar Decathlon Europe	TU Delft
Participants	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Roof Plan

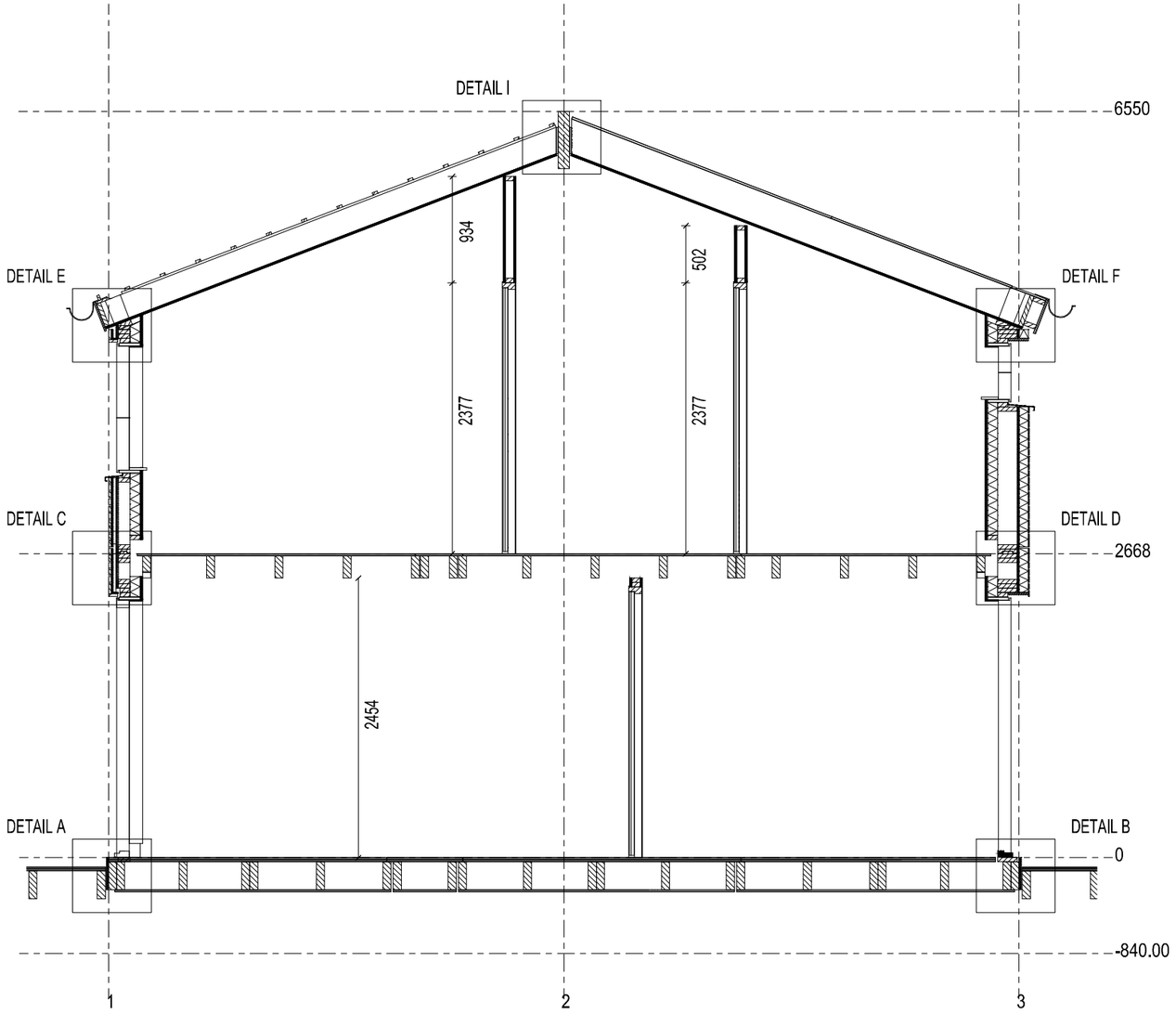
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ST-021**

A3



---INFORMATION---

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Longitudinal Section CC

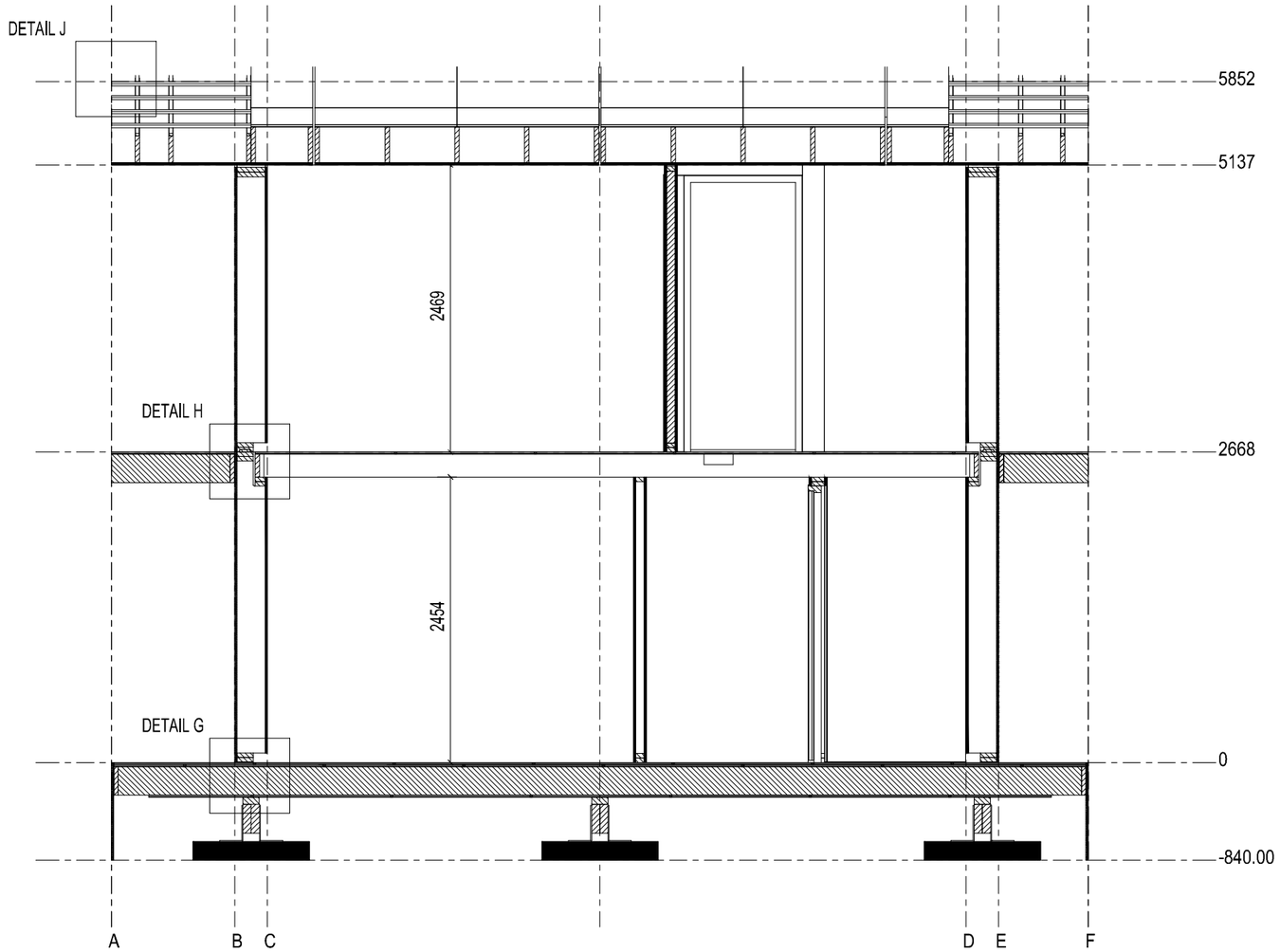
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ST-101**

A3



---INFORMATION---

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Transverse Section DD

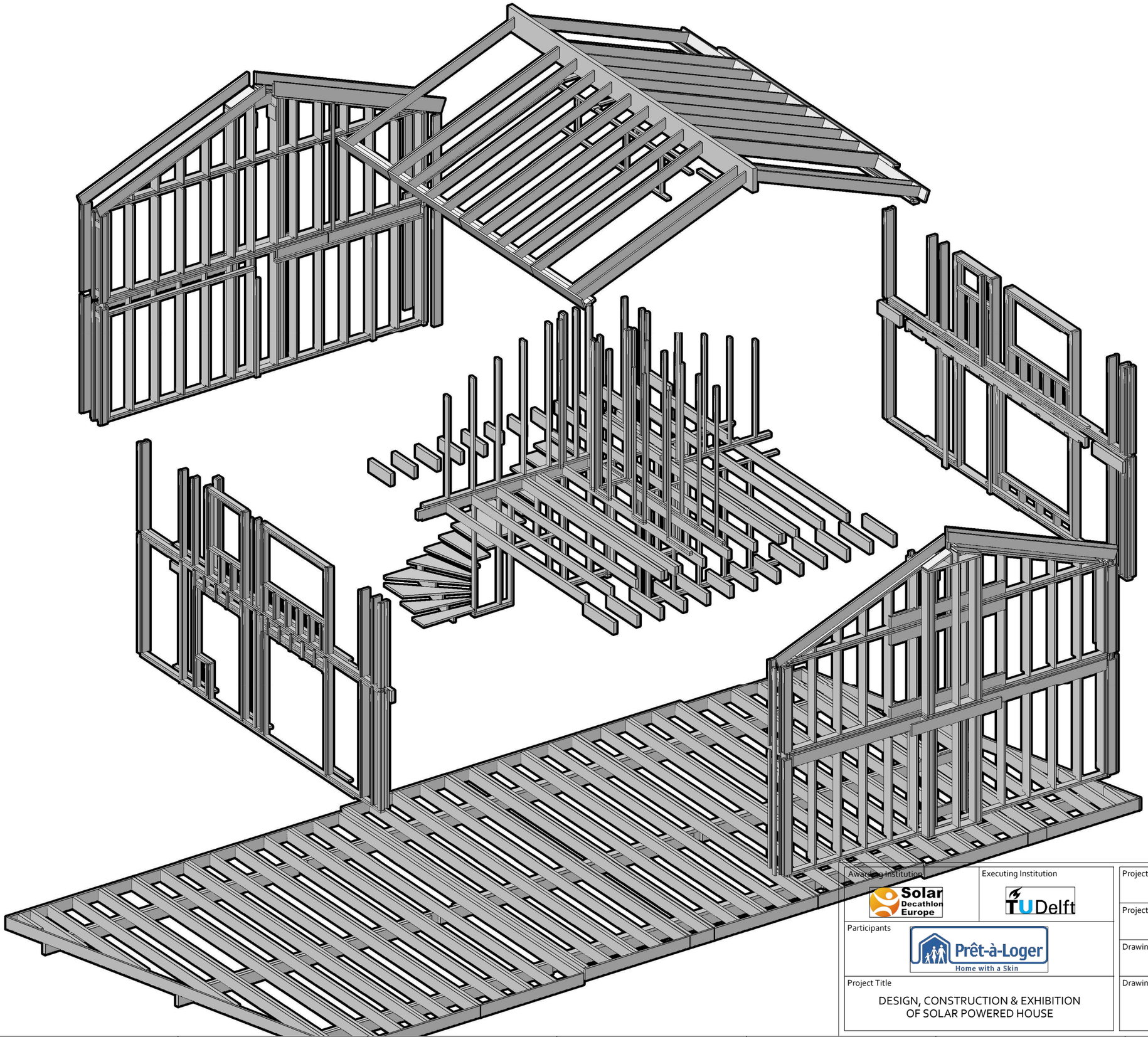
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ST-111**

A3



---INFORMATION---

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Blow up

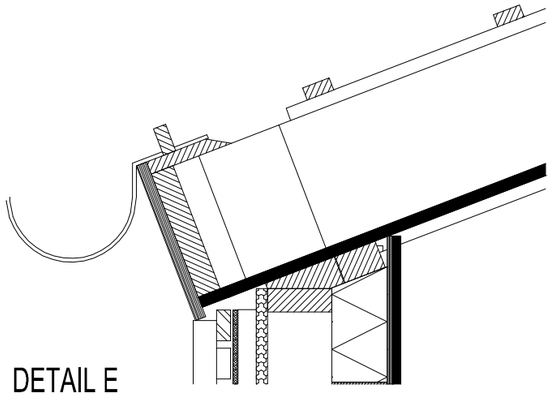
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

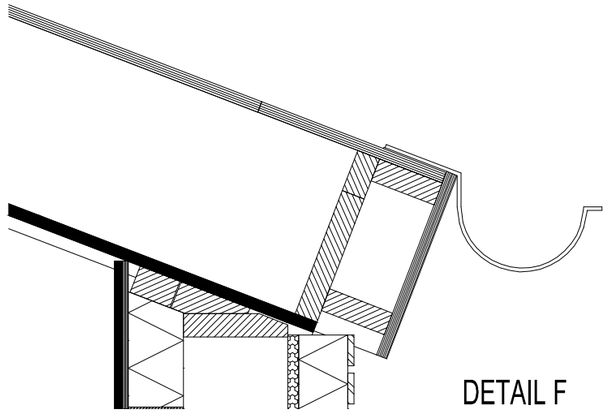
Drawing Scale: 1:75

Drawing Code: **ST-201**

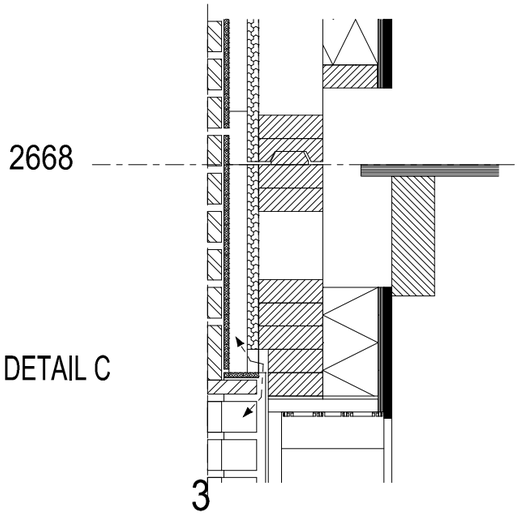
A3



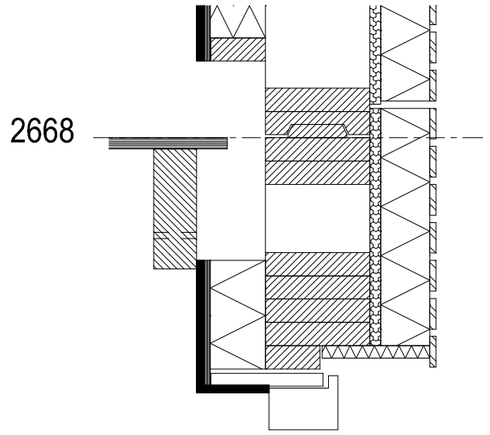
DETAIL E



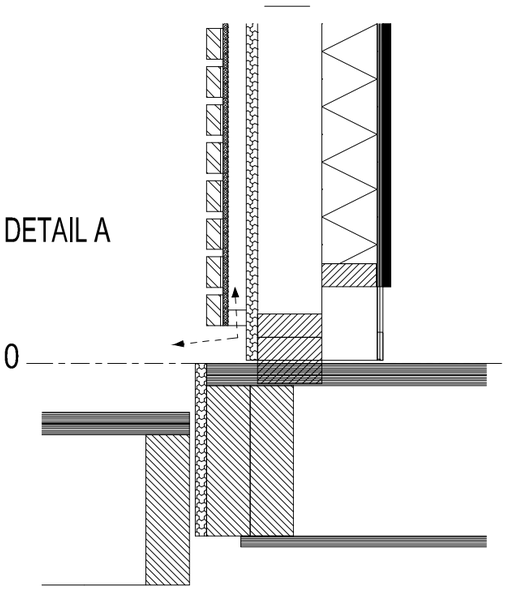
DETAIL F



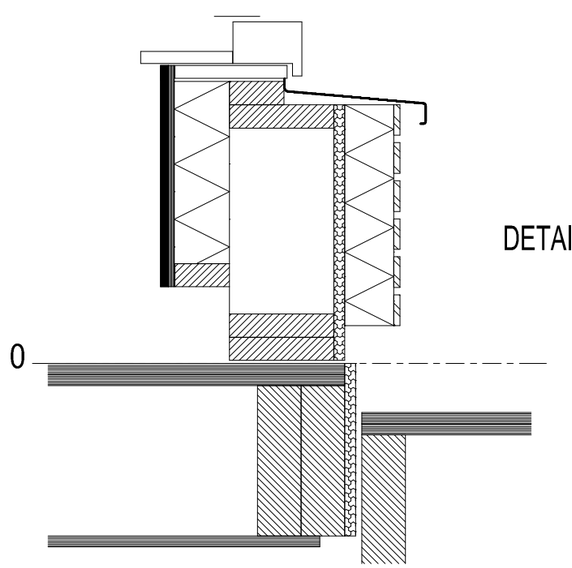
DETAIL C



DETAIL D



DETAIL A



DETAIL B

---INFORMATION---

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	Structural plans
Drawing Subject	Structural Details - House

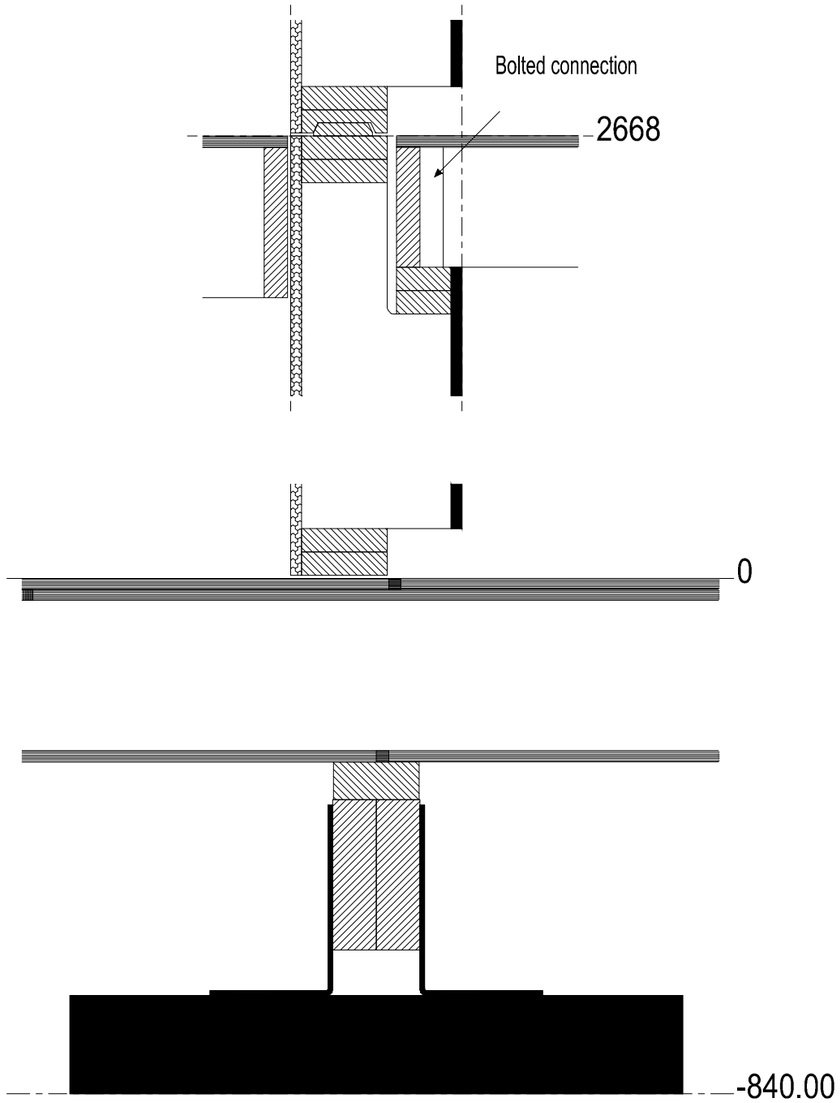
Revisions		
4		
3		
2	28.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:10

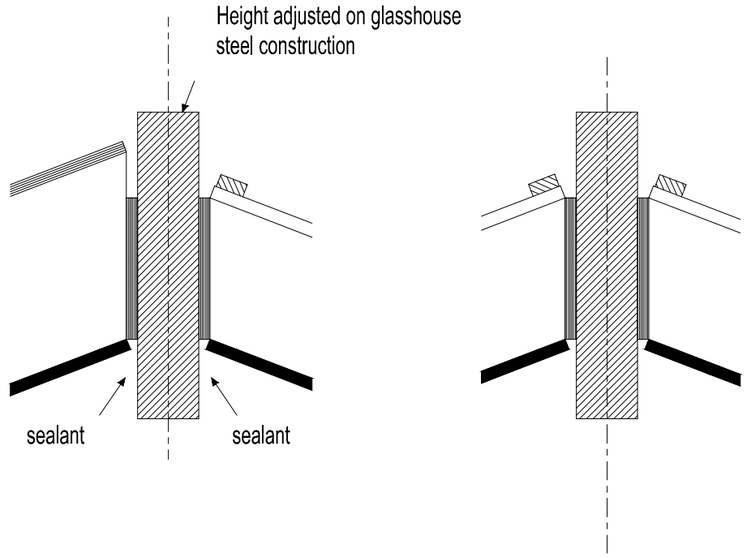
Drawing Code: **ST-301**

A3



DETAIL H

DETAIL G



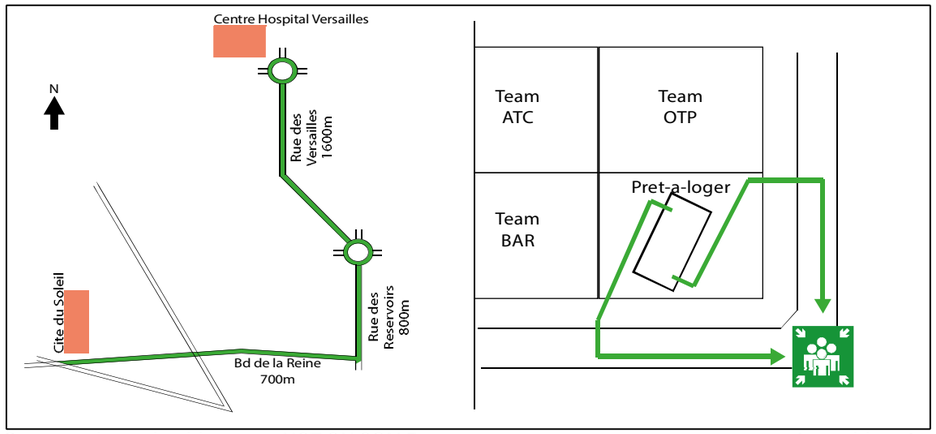
DETAIL I

DETAIL J

---INFORMATION---

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 28.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: Structural plans	Drawing Scale: 1:10
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: Structural Details - House	Drawing Code: ST-302

A3



Route to closest health center; NOT ON SCALE

Assembly point

Procedures in case of re:

ON DISCOVERY OR SUSPICION OF FIRE

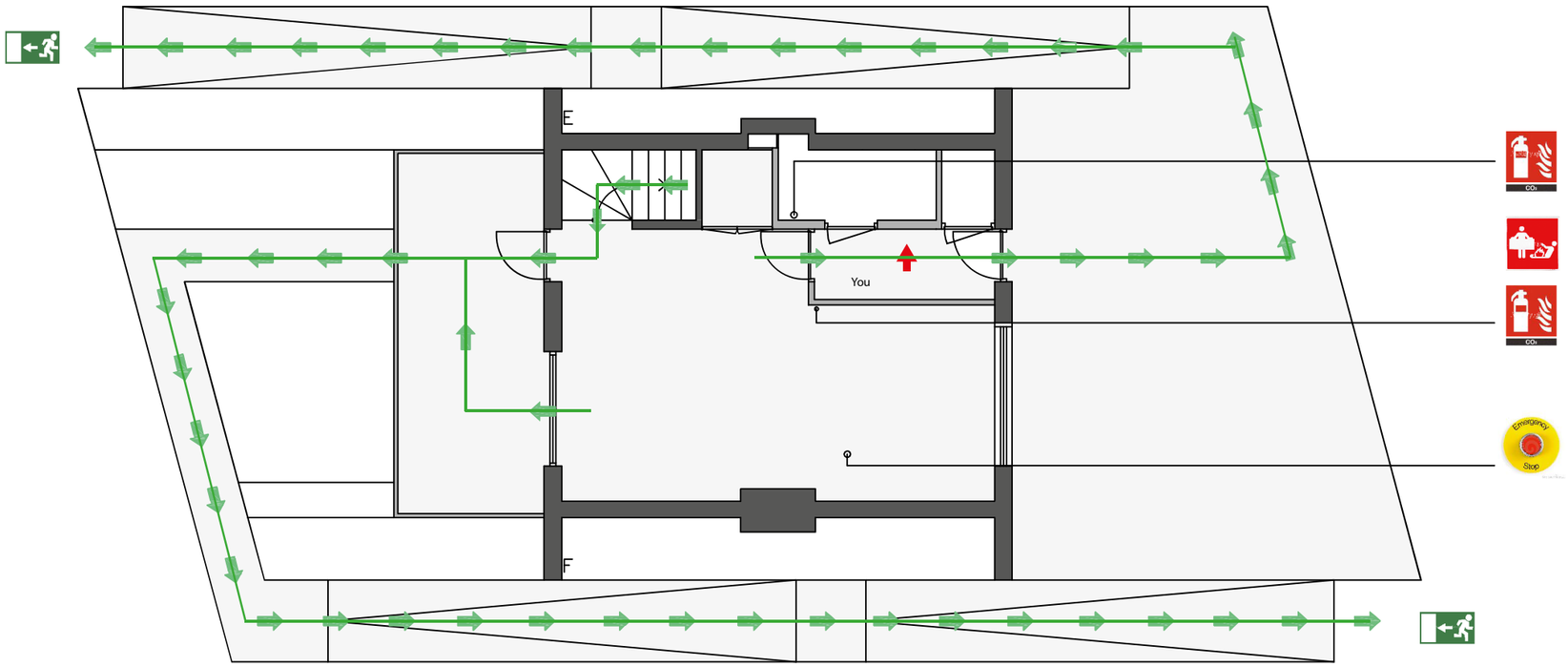
- Operate the nearest re alarm call point
- Dial 112; re brigade
- Attack re using available appliance
- Evacuate
- Proceed to the assembly point.

Assembly point:

Emergency numers France:

SOS - Fire brigade, police, ambulance	112
SOS - Fire brigade, police, ambulance (hearing assistence)	114
Emergency Shelter	115
Medical help/SAMU	15
Police/Police Nationale (Gendarmerie)	17
Fire & accident/Sapeurs Pompiers	18

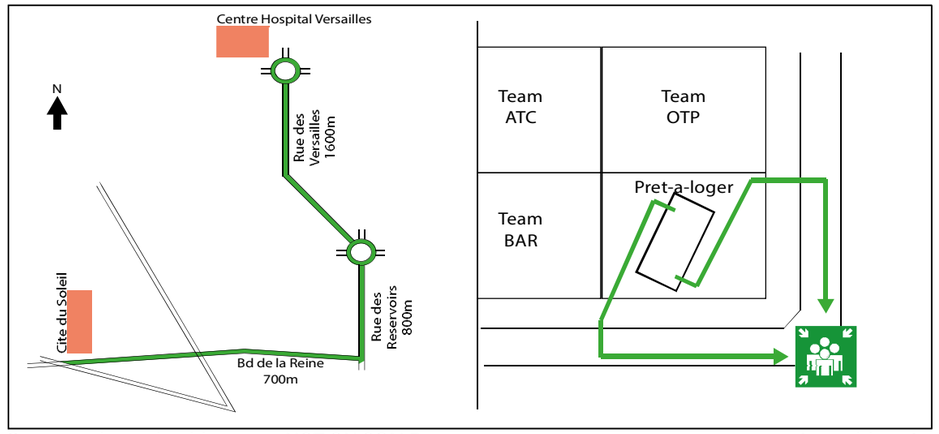
Procedures & Emergency numbers



- exit route
- fire blanket
- CO2 fire extinguisher (electrical board)
- Fire extinguisher/ 6L 21A-113B efficiency
- emergency stop switch
- exit route

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 –.–.— -; 3 –.–.— -; 2 –.–.— -; 1 04.11.2014 DKL
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:100
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: FIRE SAFETY GROUND FLOOR	Drawing Code: FP-001

A3



Route to closest health center; NOT ON SCALE

Assembly point

Procedures in case of re:

ON DISCOVERY OR SUSPICION OF FIRE

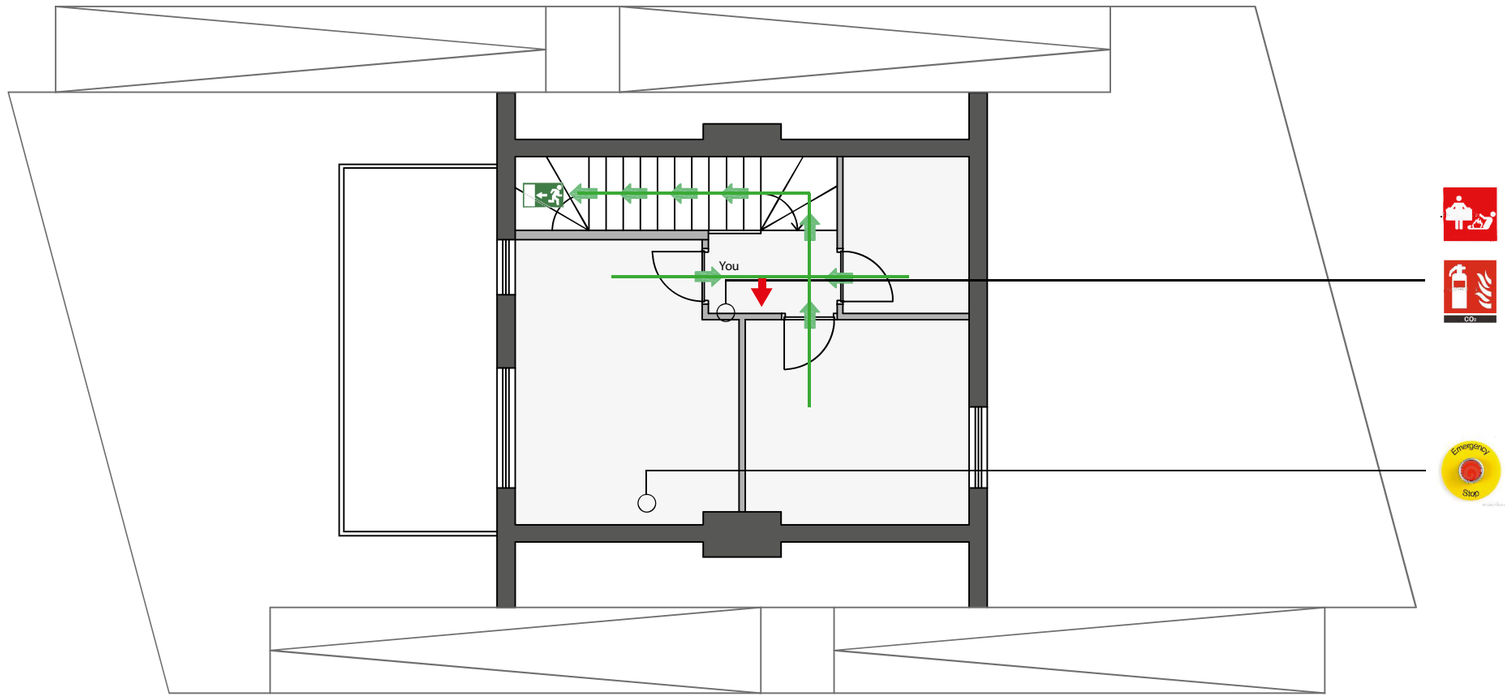
- Operate the nearest re alarm call point
- Dial 112; re brigade
- Attack re using available appliance
- Evacuate
- Proceed to the assembly point.

Assembly point:

Emergency numers France:

SOS - Fire brigade, police, ambulance	112
SOS - Fire brigade, police, ambulance (hearing assistence)	114
Emergency Shelter	115
Medical help/SAMU	15
Police/Police Nationale (Gendarmerie)	17
Fire & accident/Sapeurs Pompiers	18

Procedures & Emergency numbers



exit route

fire blanket

CO2 fire extinguisher (electrical board)

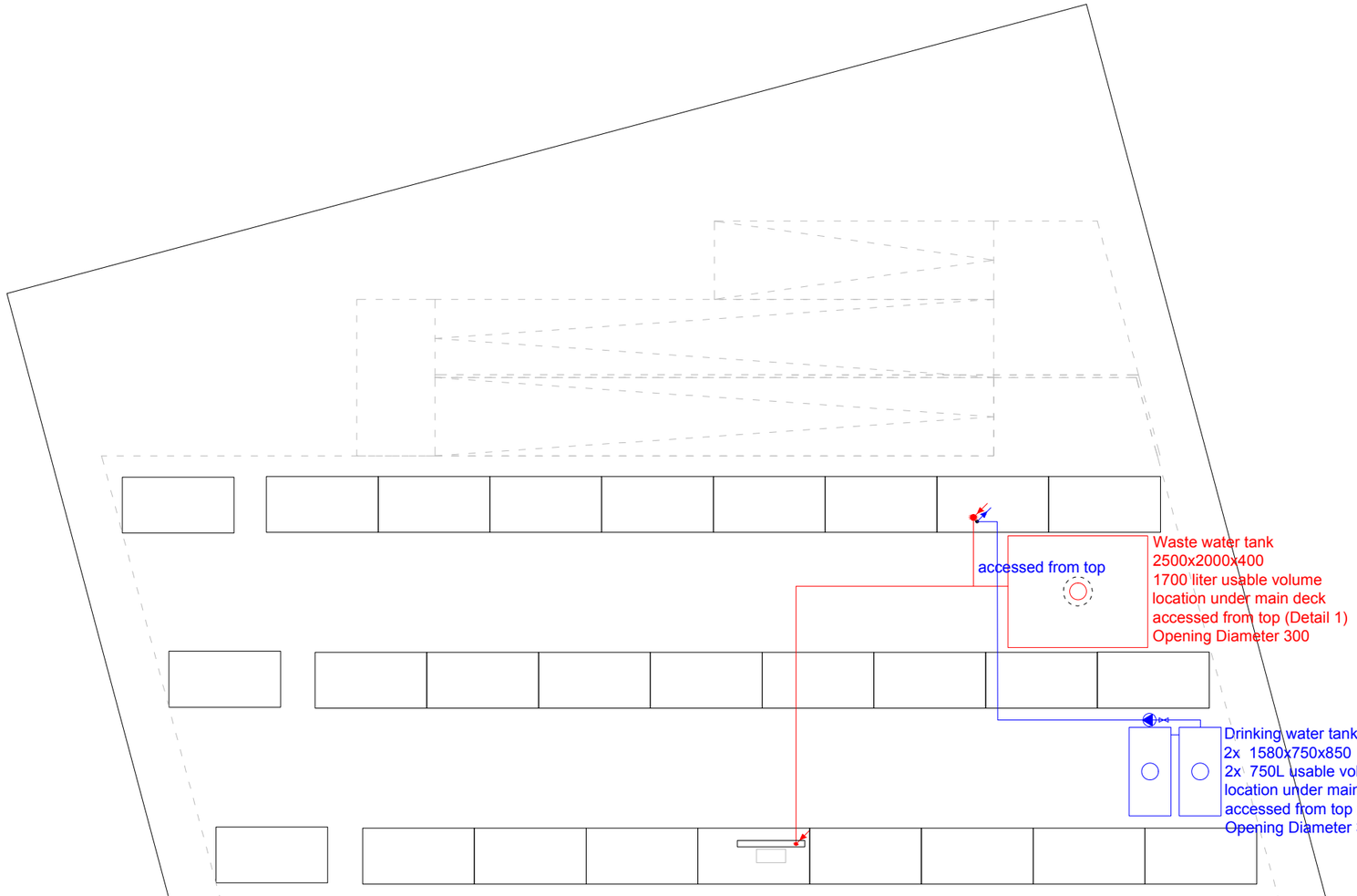
Fire extinguisher/ 6L 21A-113B efficiency

emergency stop switch

exit

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	
Participants: Prêt-à-Loger Home with a Skin		
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 –.–.— -; 3 –.–.— -; 2 –.–.— -; 1 04.11.2014 DEL #4	
Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3	
Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:100	
Drawing Subject: FIRE SAFETY FIRST FLOOR	Drawing Code: FP-002	

A3

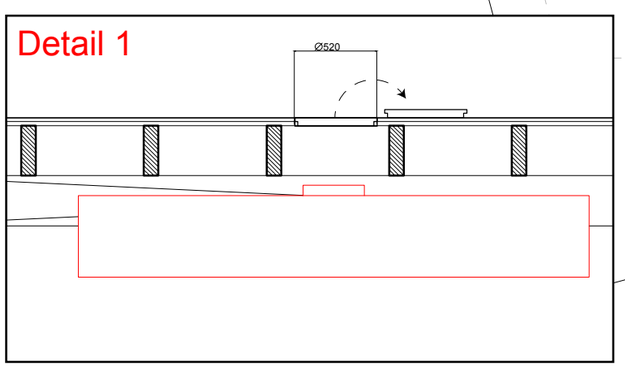


---INFORMATION---

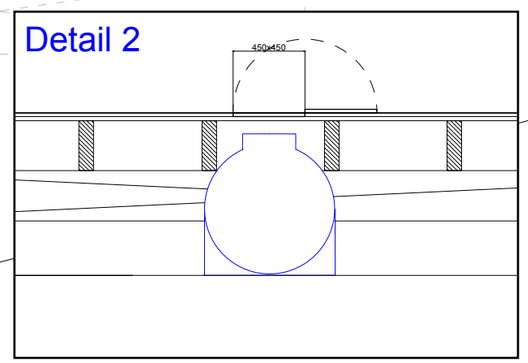
- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

Detail 1



Detail 2



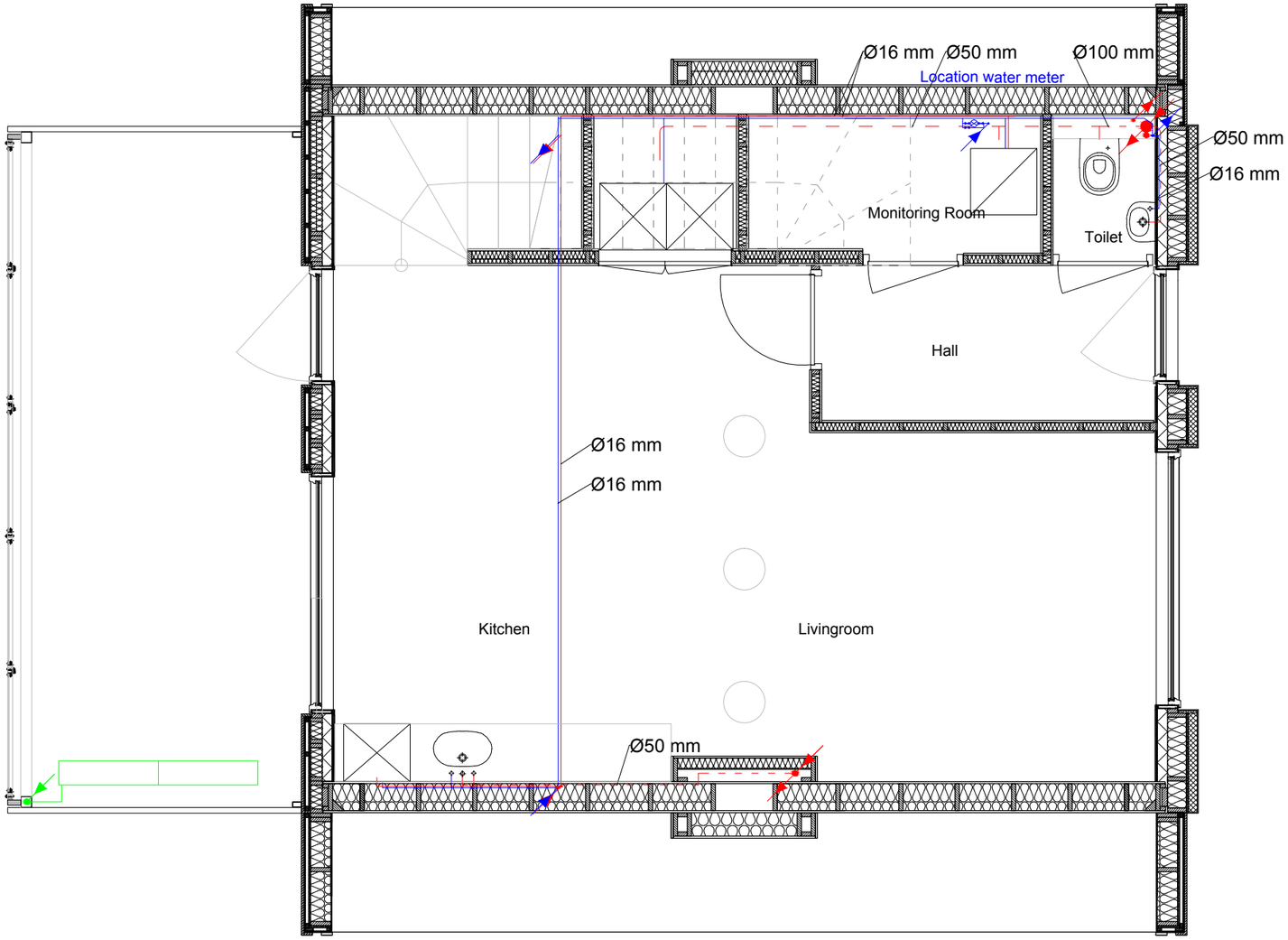
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC-GRAY-WASTE WATER BASEMENT

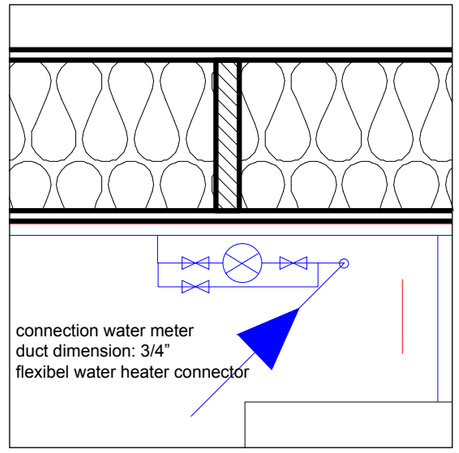
Revisions		
4	--.--.----	-
3	01.06.2014	Second Revision
2	30.04.2014	FIrst Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:100/50
Drawing Code	PL-001

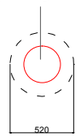
A3



Detail watermeter connection scale 1:10



Removal waste water
Opening Diameter 300



Suply drinking water
Opening Diameter 300



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

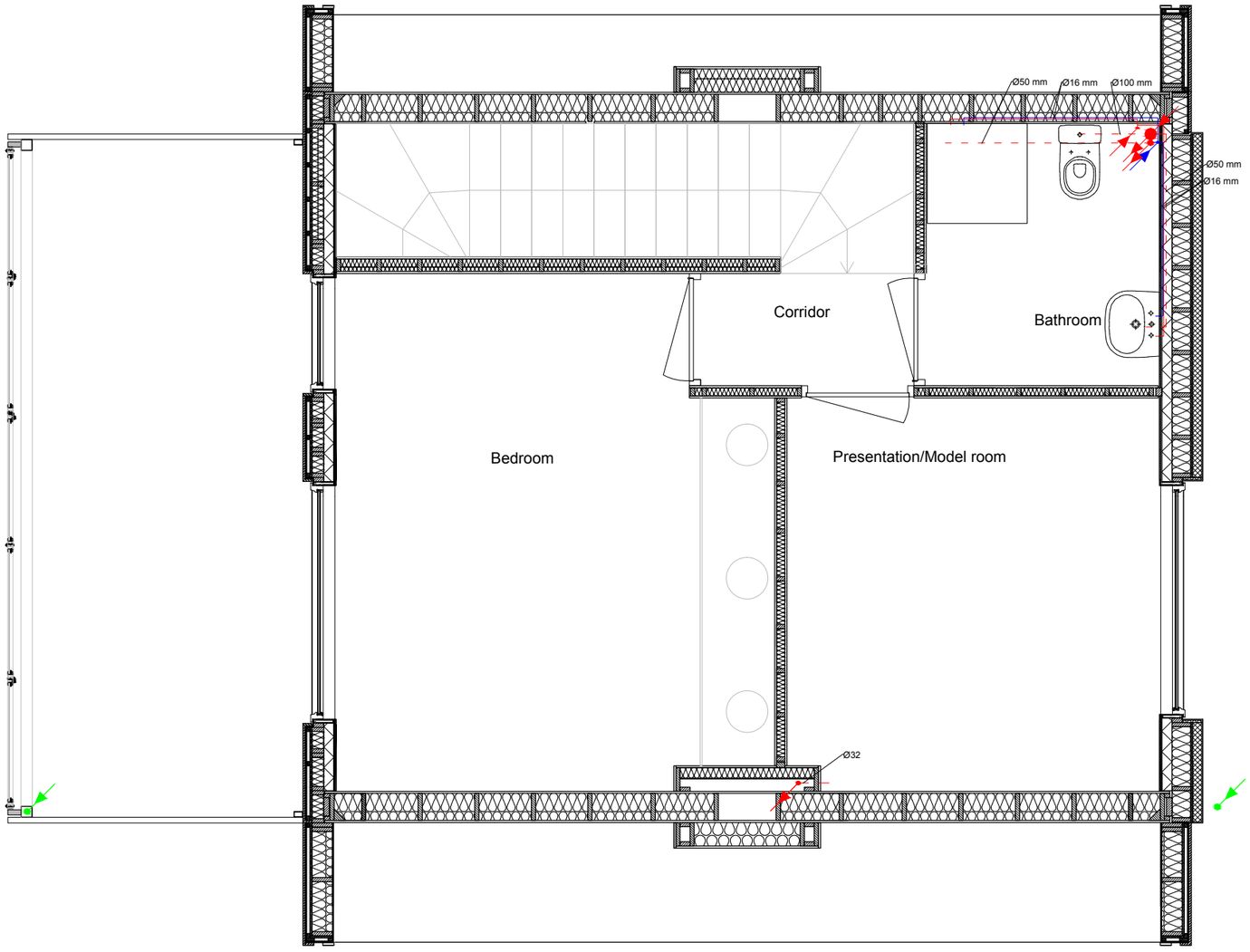
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC-GRAY-WASTE WATER GROUND FLOOR

Revisions		
4	--.--.----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-002

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

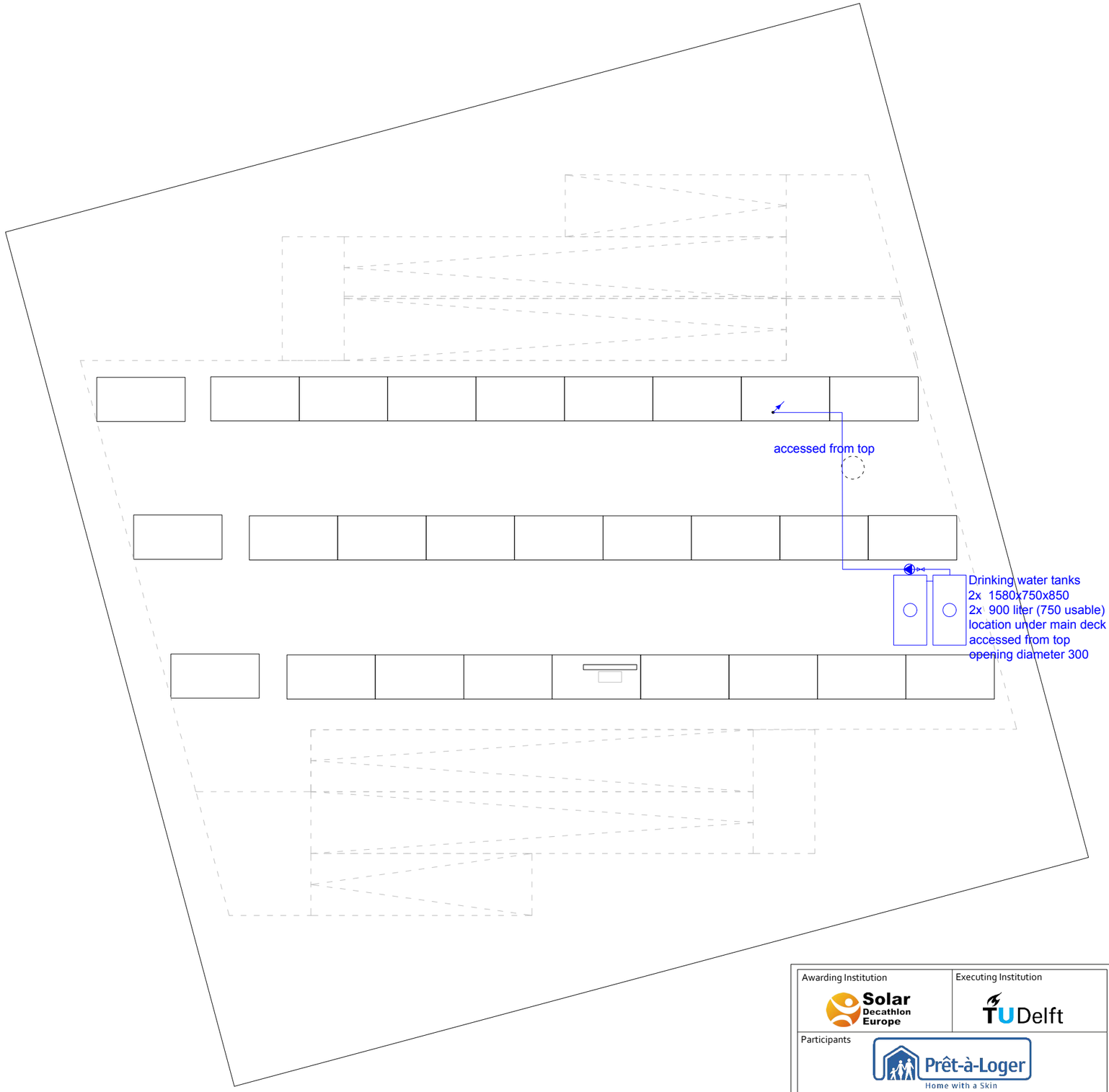
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC-GRAY-WASTE WATER FIRST FLOOR

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-003

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

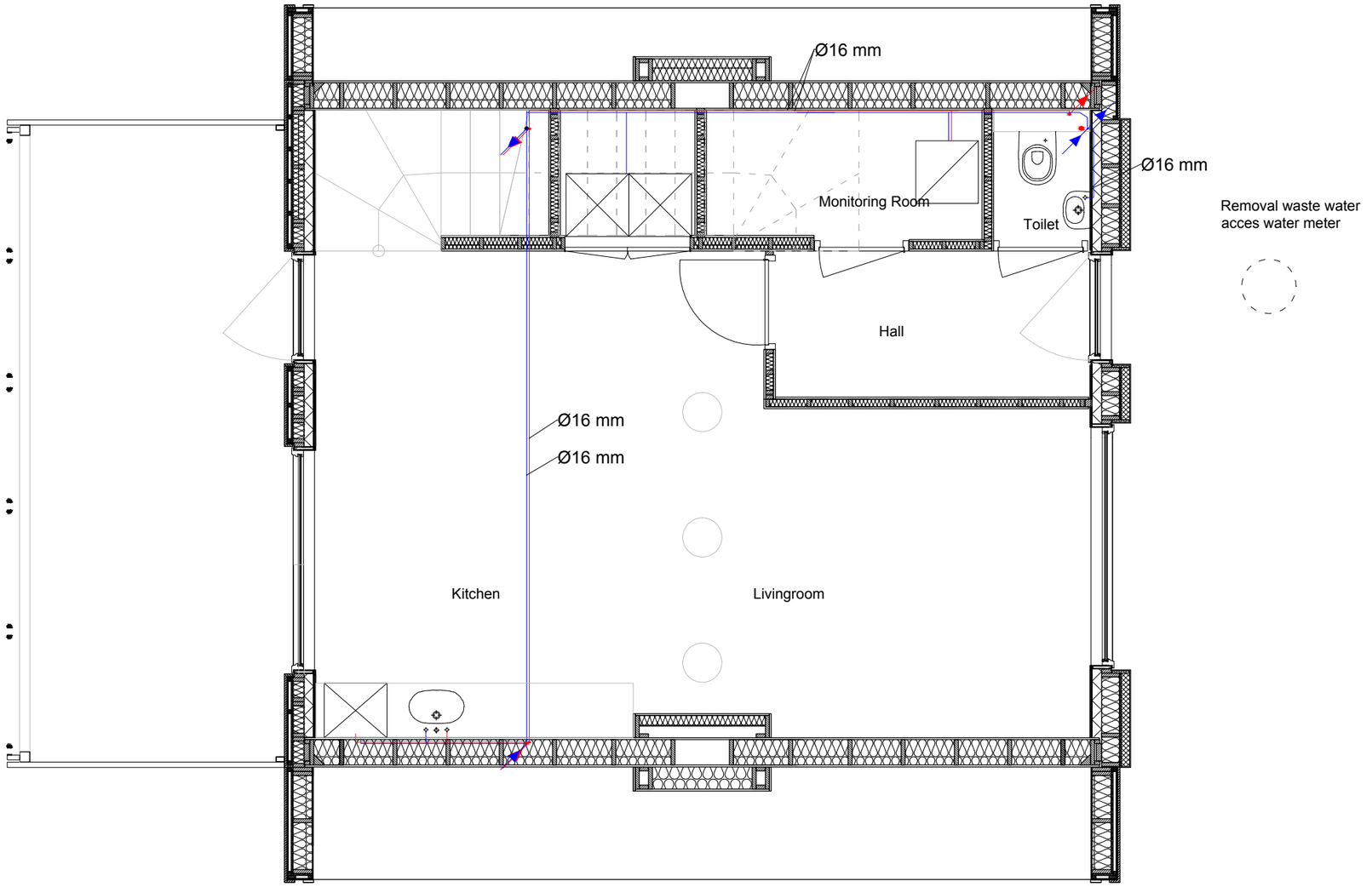
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC WATER BASEMENT

Revisions		
4	--.--.----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:100
Drawing Code	PL-004

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

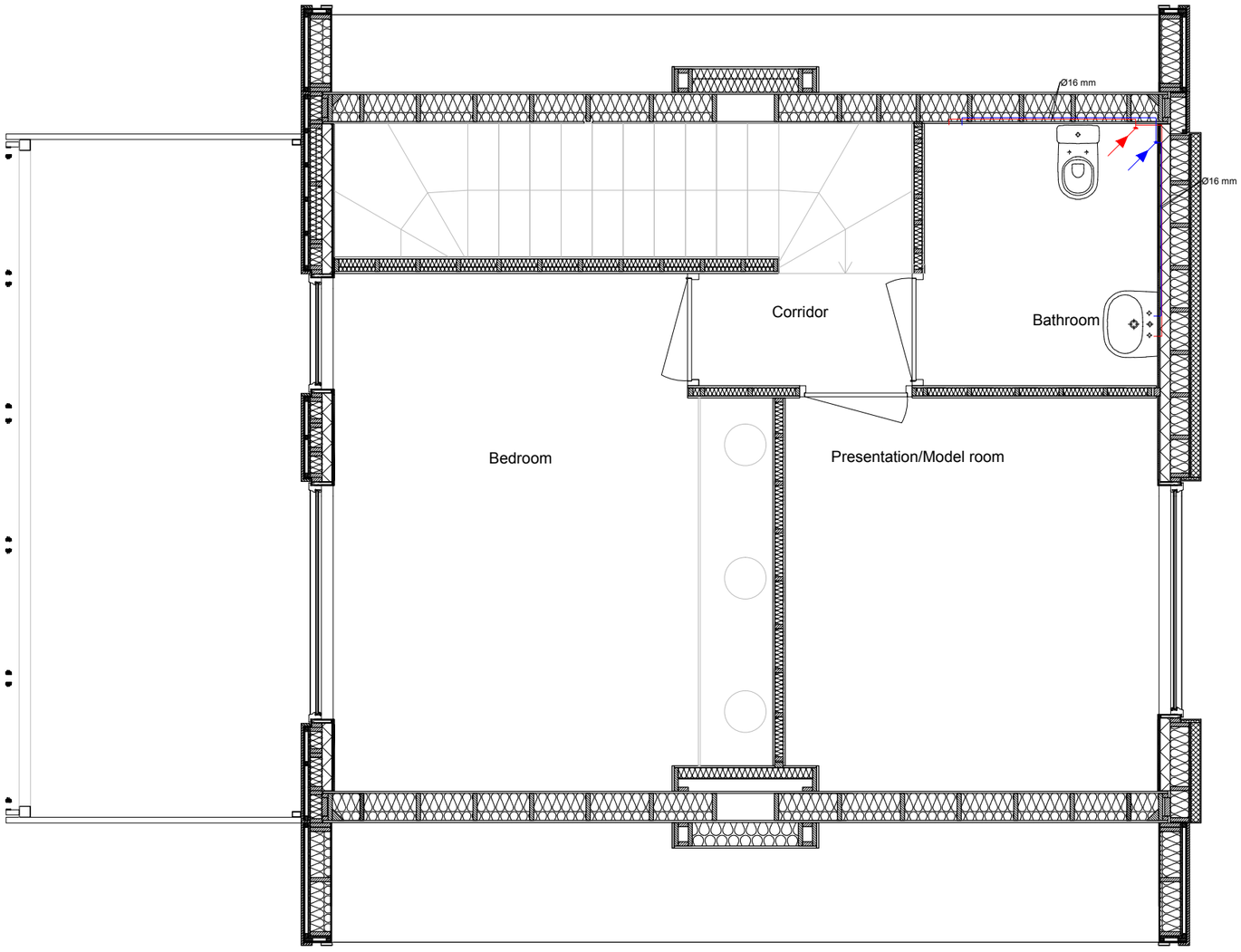
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC WATER GROUND FLOOR

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-005

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

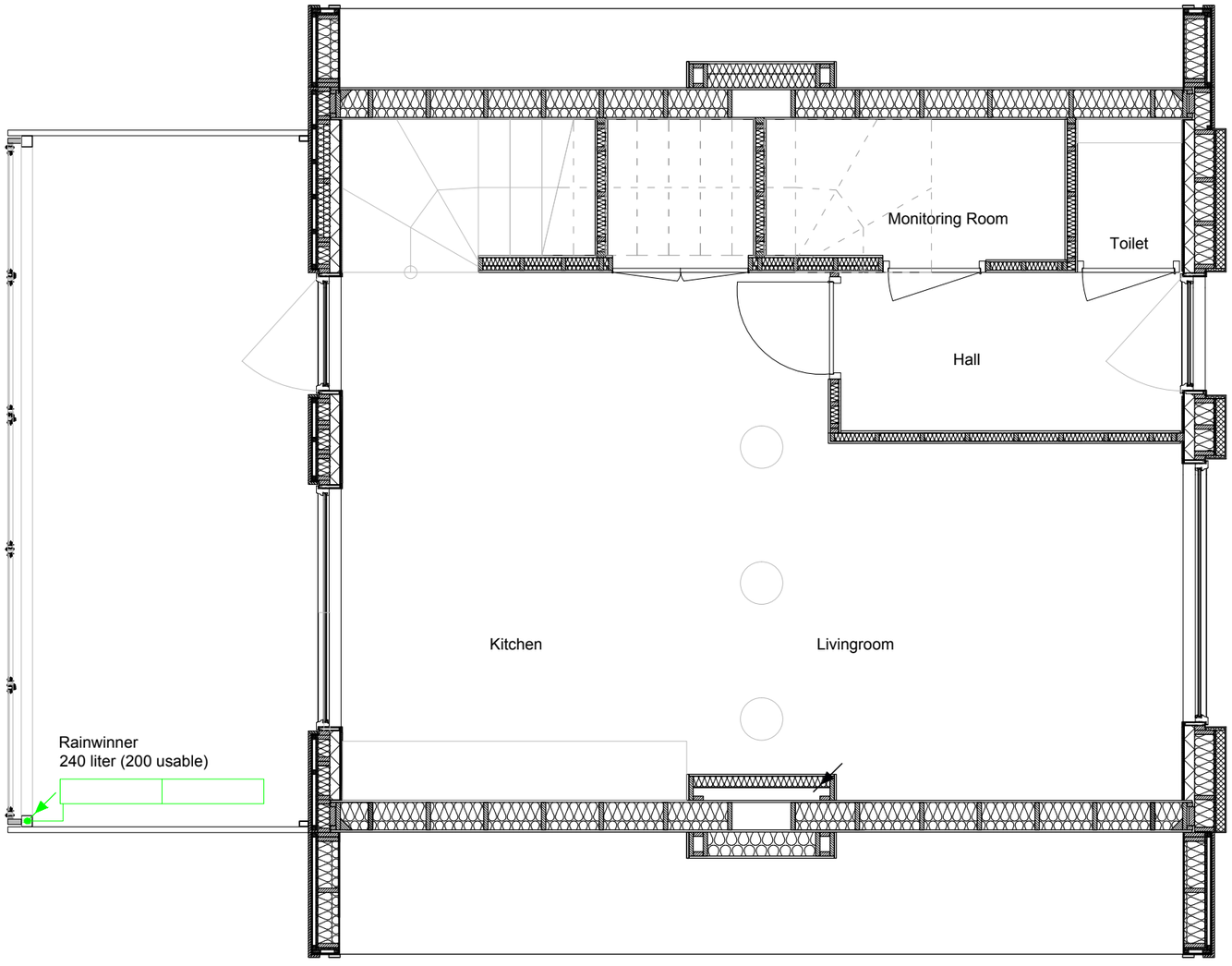
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	DOMESTIC WATER FIRST FLOOR

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-006

A3



---INFORMATION---

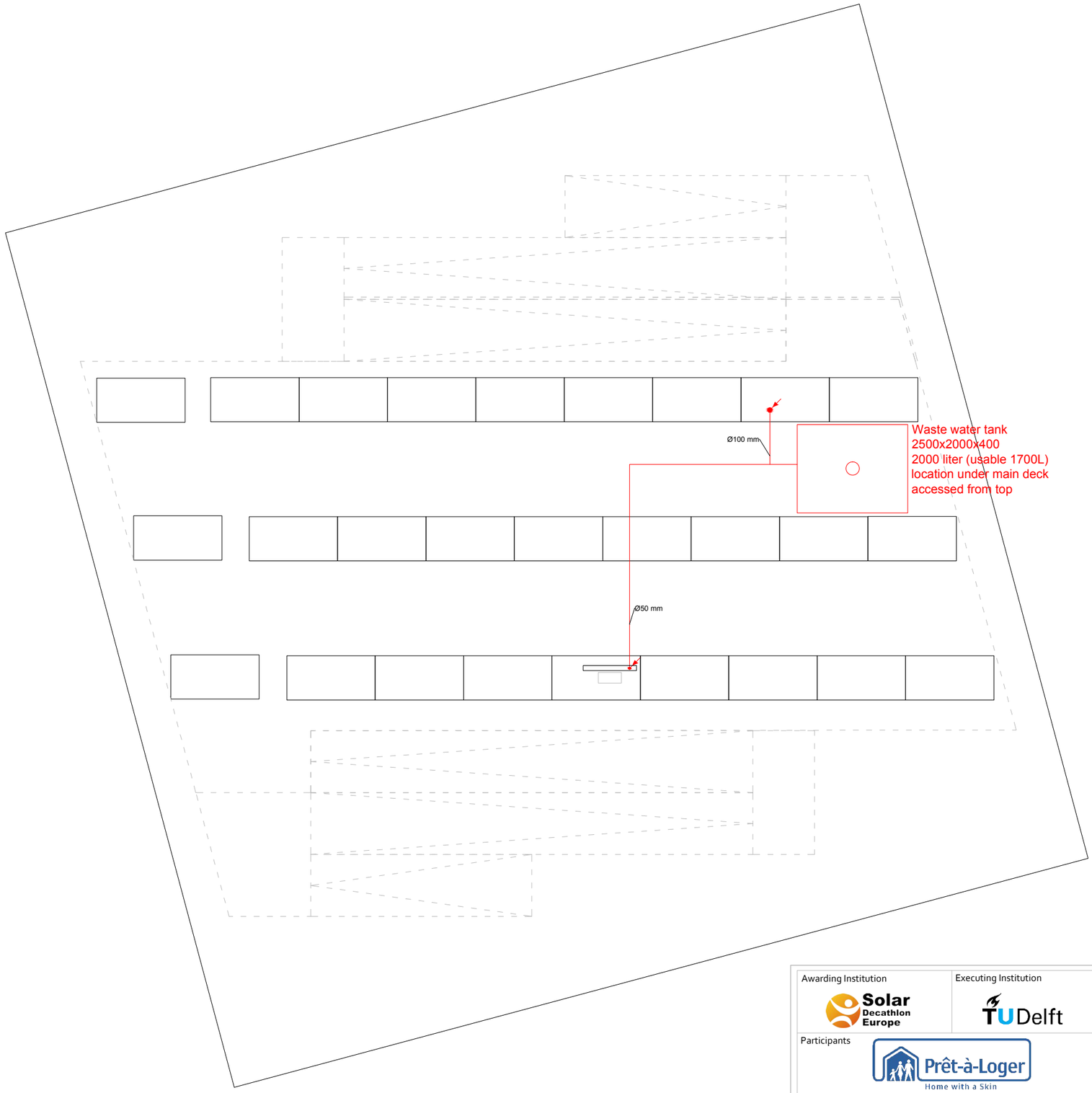
- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 -- -- ---- -; 3 01.06.2014 Second Revision; 2 30.04.2014 First Revision; 1 03.03.2014 Initial Version
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: PLUMBING DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: GREY WATER GROUND FLOOR	Drawing Code: PL-011

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

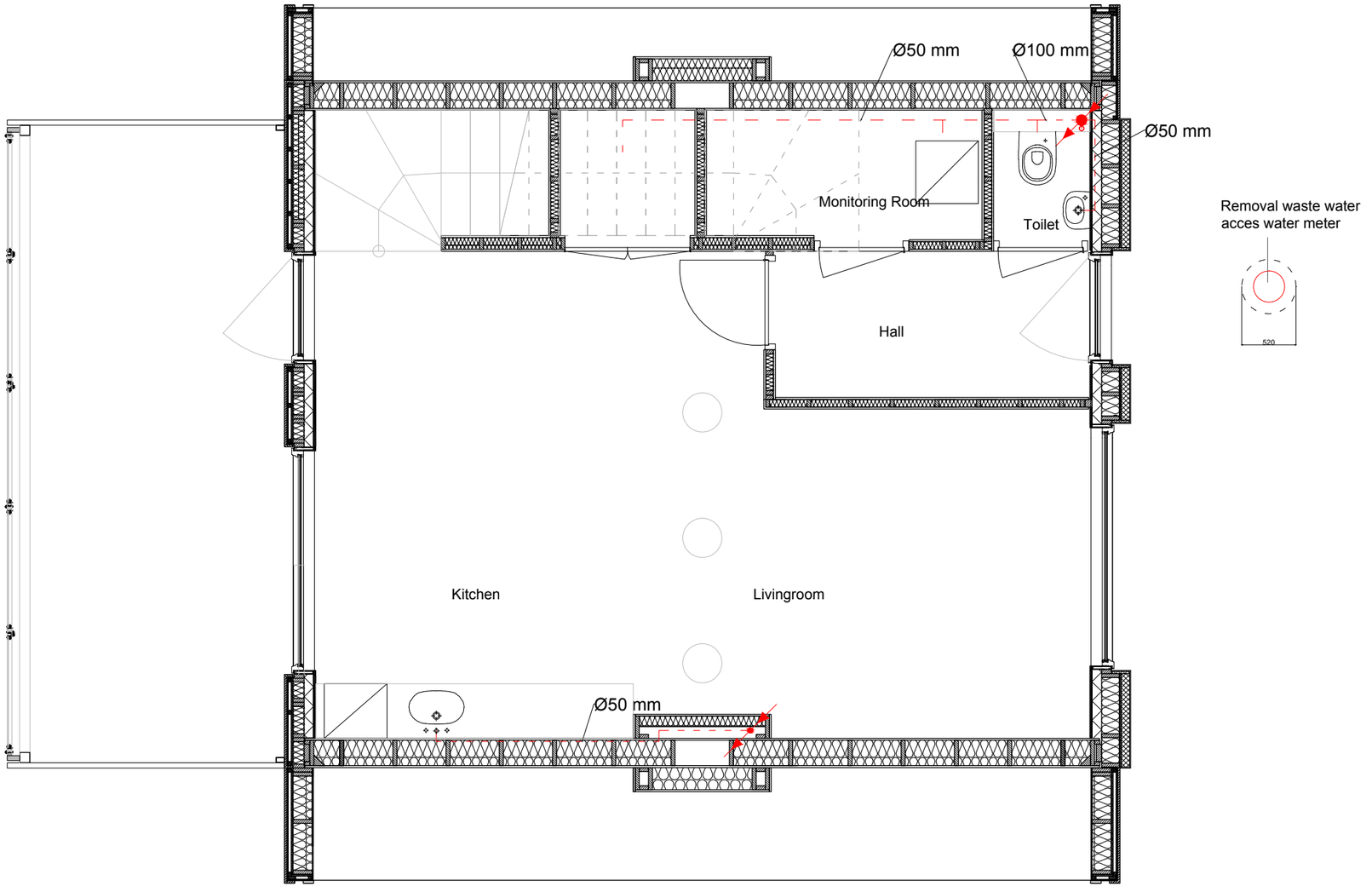
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	WASTE WATER CRAWLING SPACE

Revisions		
4	--.--.----	-
3	01.06.2014	Second Revison
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:100
Drawing Code	PL-021

A3



Removal waste water
acces water meter

---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

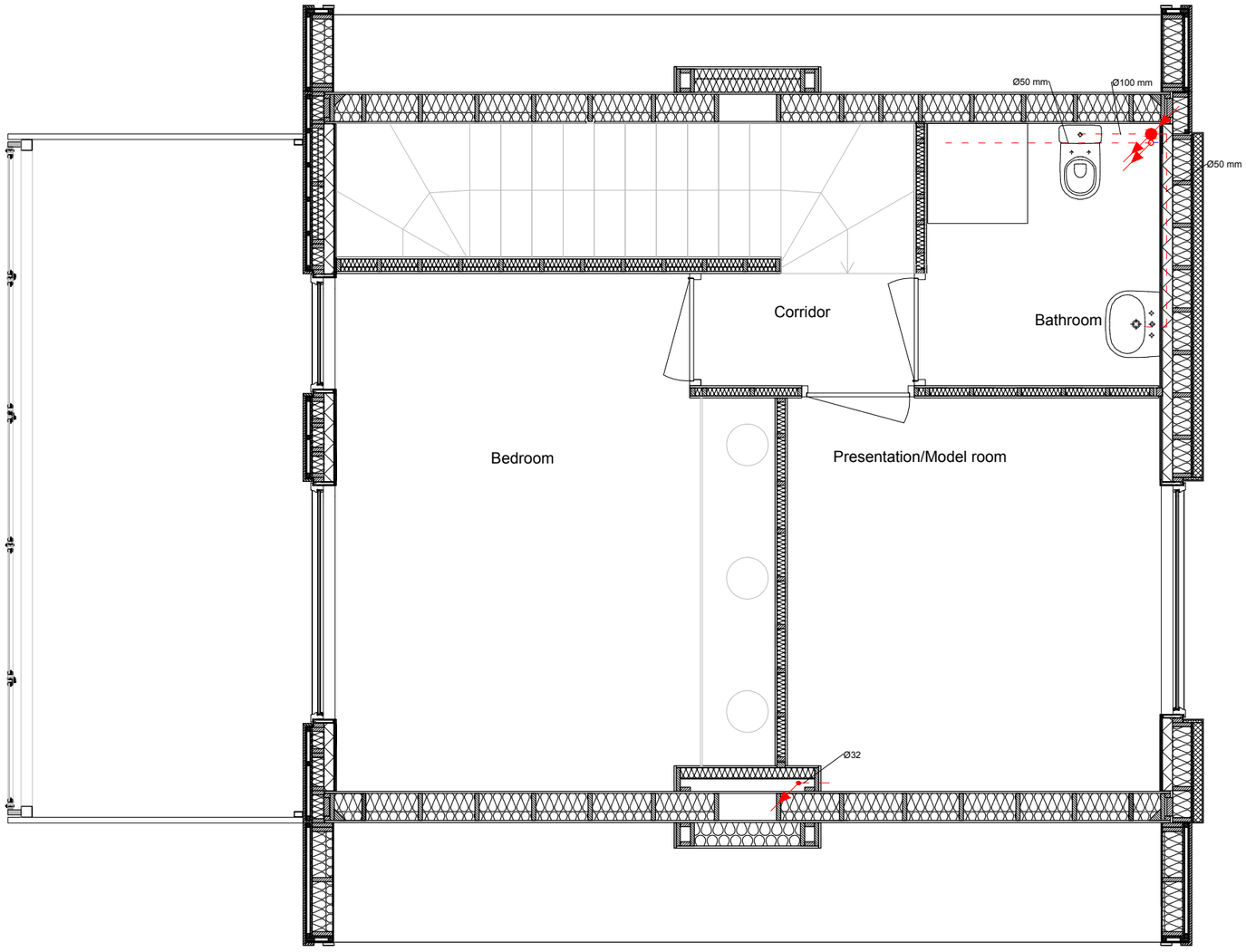
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	WASTE WATER GROUND FLOOR

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-022

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

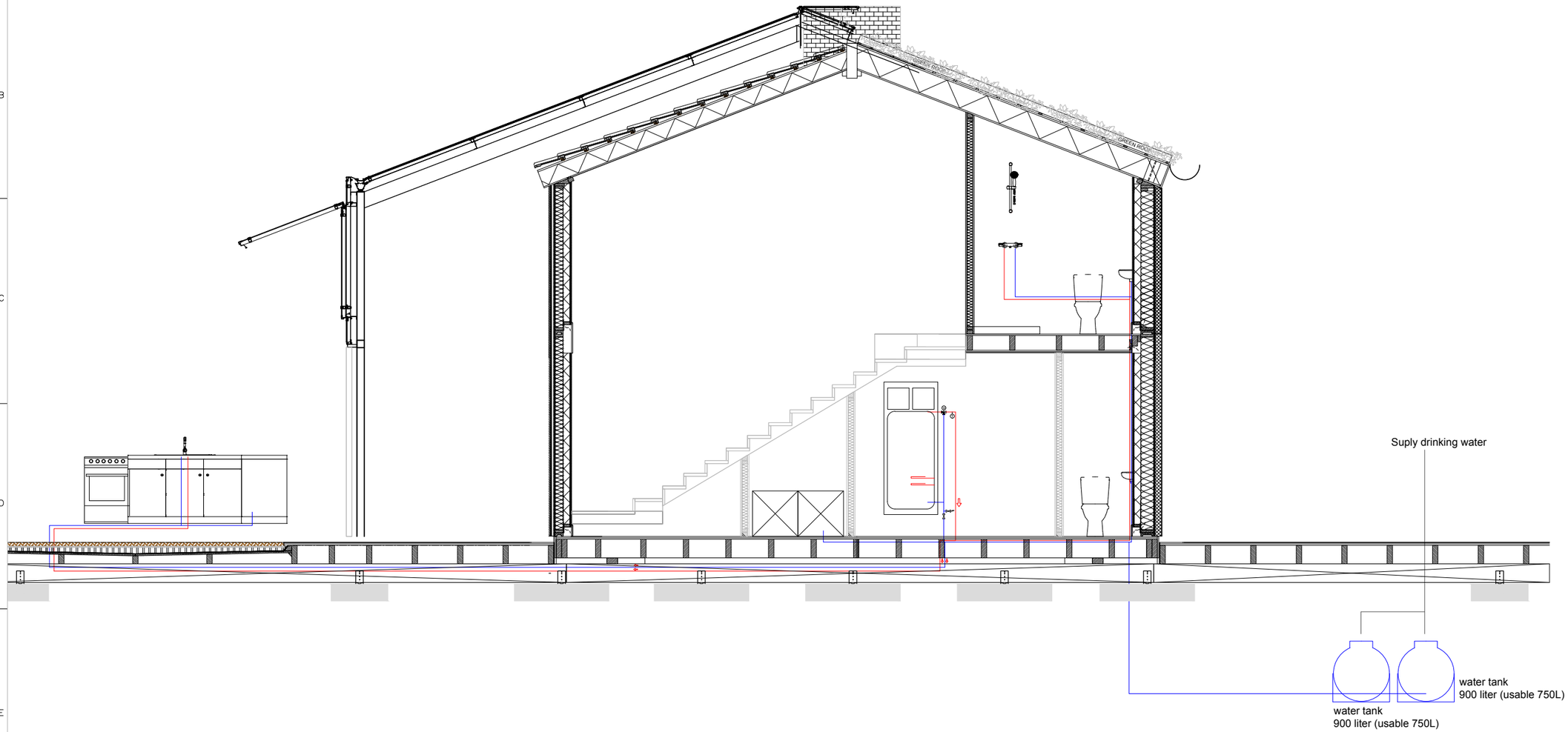
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	WASTE WATER FIRST FLOOR

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	1:50
Drawing Code	PL-023

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

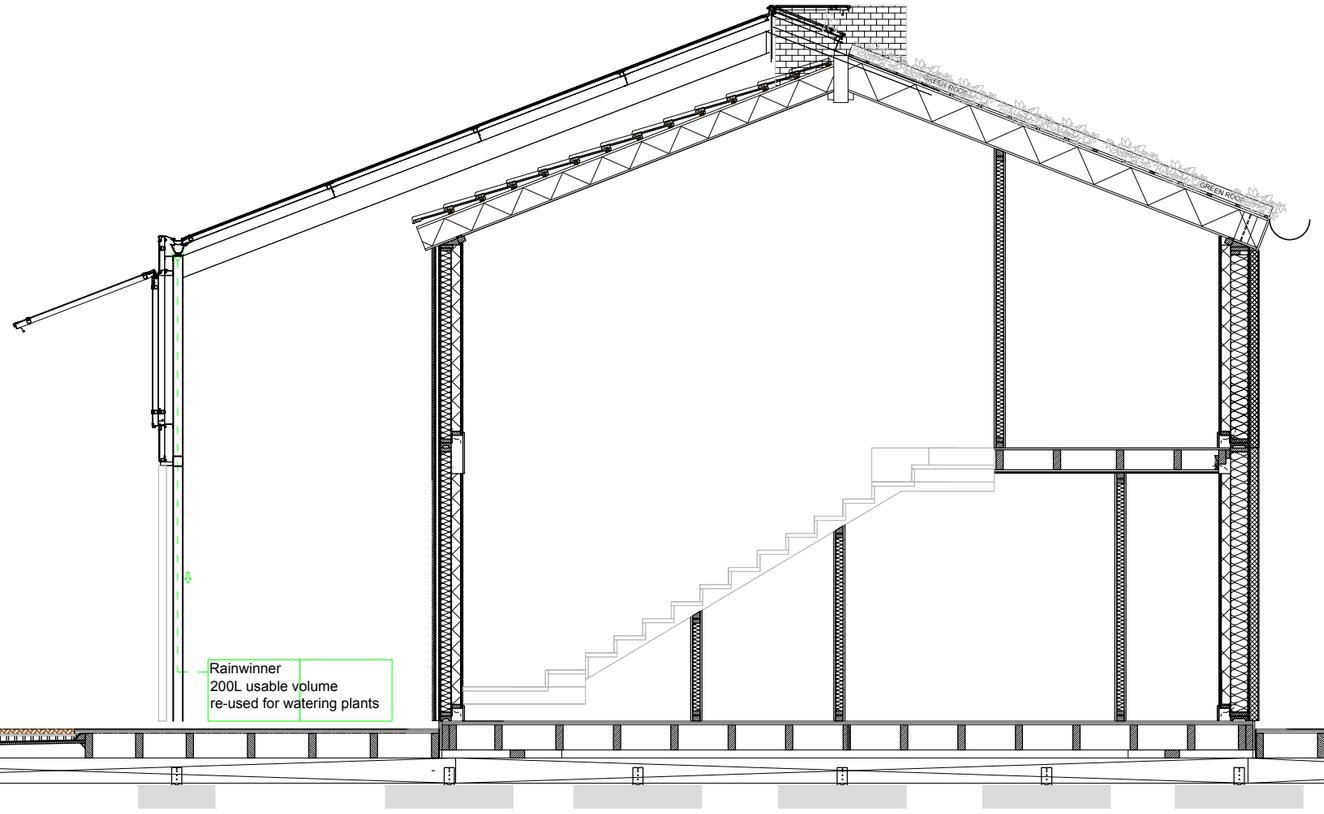
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWING
Drawing Subject	SCHEMATIC DIAGRAM DOMESTIC WATER

Revisions		
4	--.--.----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	n/a
Drawing Code	PL-101

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

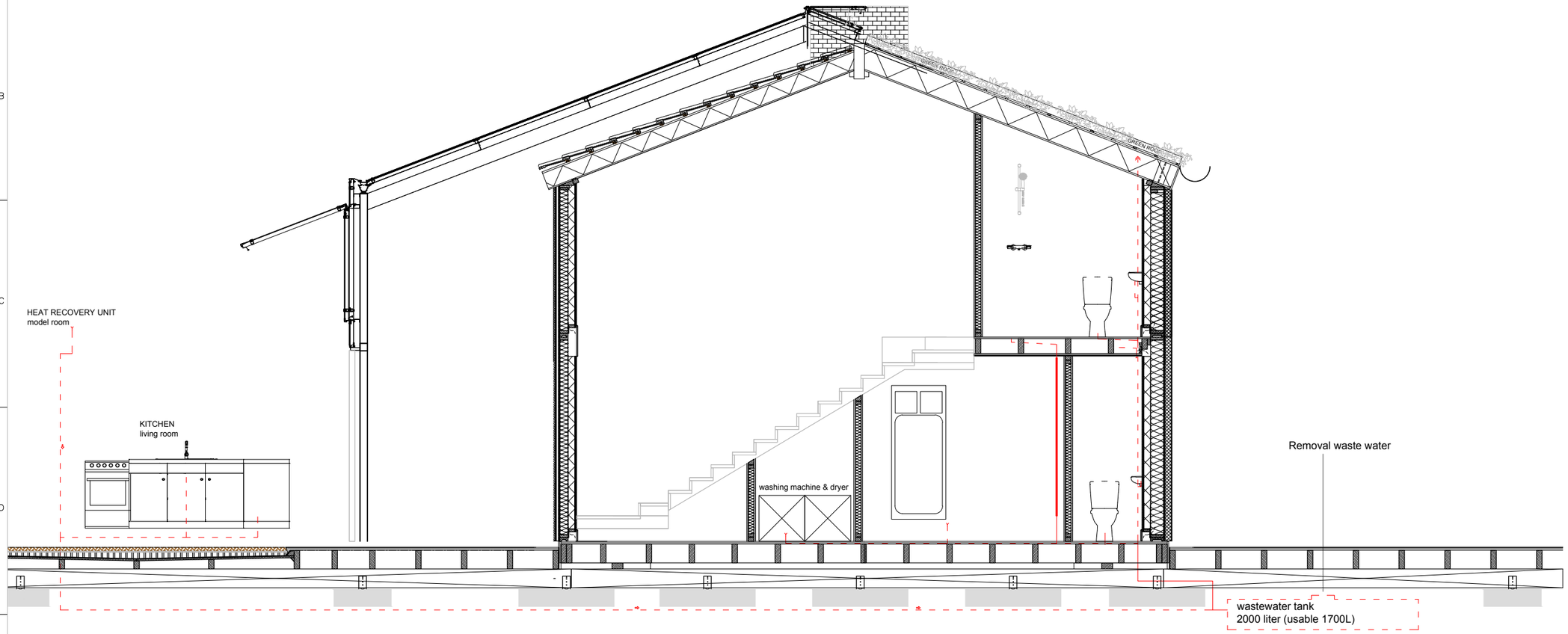
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	SCHEMATIC DIAGRAM GREY WATER

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n/a
Drawing Code	PL-102

A3



---INFORMATION---

- hot water
- cold water
- waste water
- rain water suply
- rain water return
- Motorized 3-port valve
- Drainage valve
- Shut-off valve
- Non-return valve
- Water meter
- Pump
- Showerwater heat exchanger
- Showerwater heat exchanger
- Spillway
- Roof vent

note: toilets will not be connected in Versailles

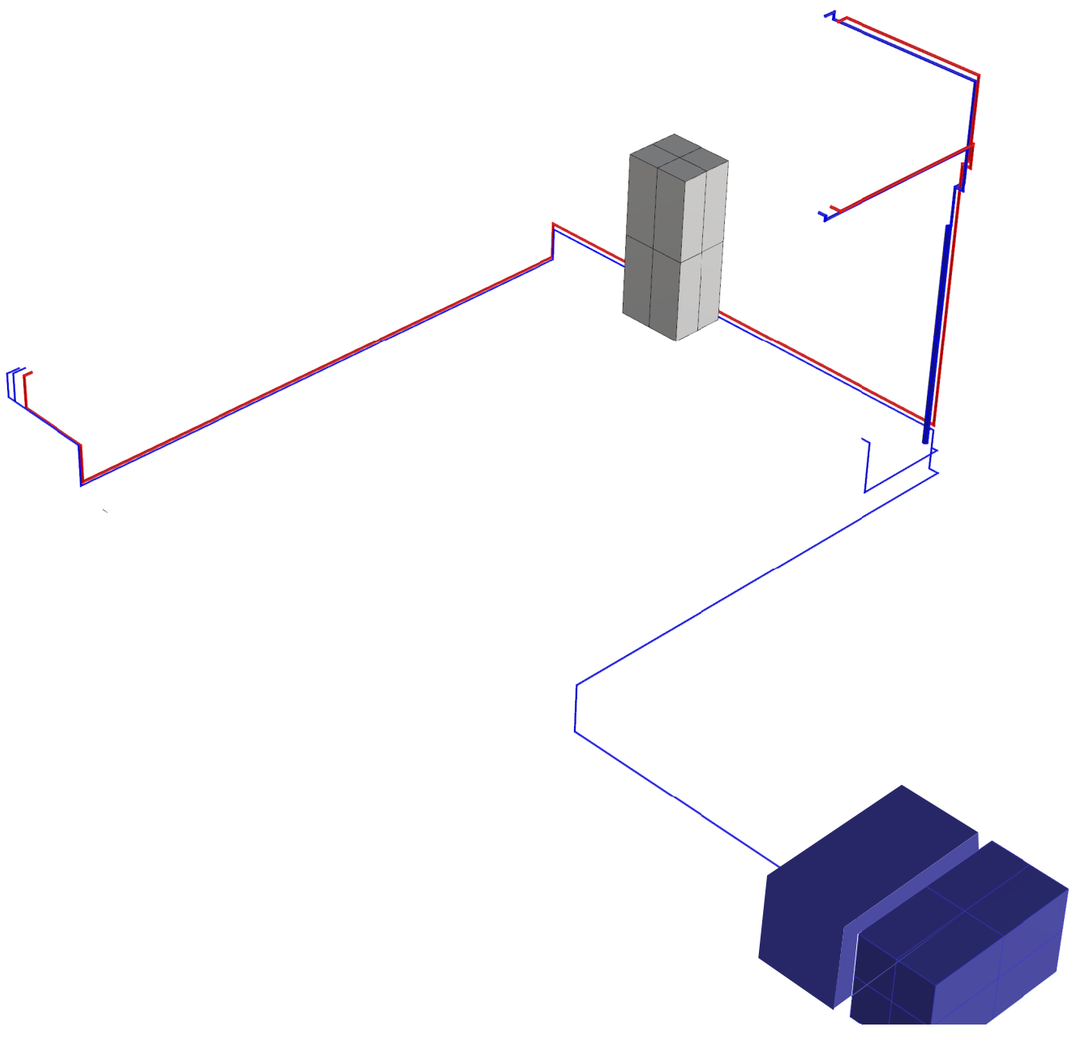
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING DRAWINGS
Drawing Subject	SCHEMATIC DIAGRAM WASTE WATER

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	n/a
Drawing Code	PL-103

A3

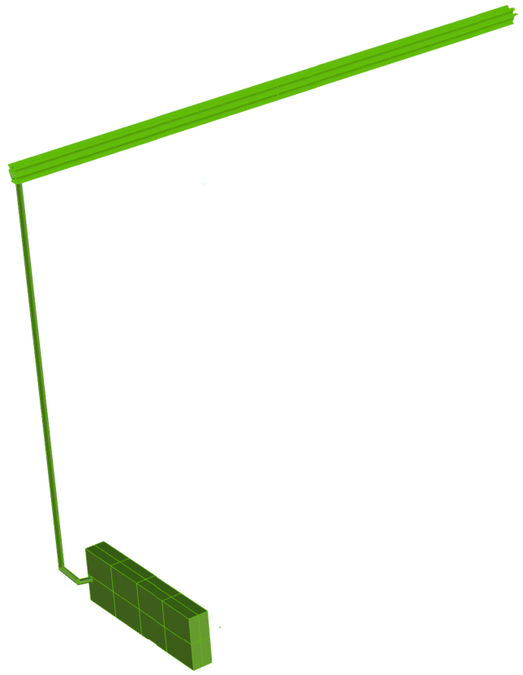


---INFORMATION---

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions
Participants: Prêt-à-Loger – Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	4 --.--.---- - 3 01.06.2014 Second Revision 2 30.04.2014 First Revision 1 03.03.2014 Initial Version
		Drawing Block: PLUMBING DRAWINGS	Paper Size: A3
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ISOMETRIC DOMESTIC WATER	Drawing Scale: n/a
			Drawing Code: **PL-201**

A3



---INFORMATION---

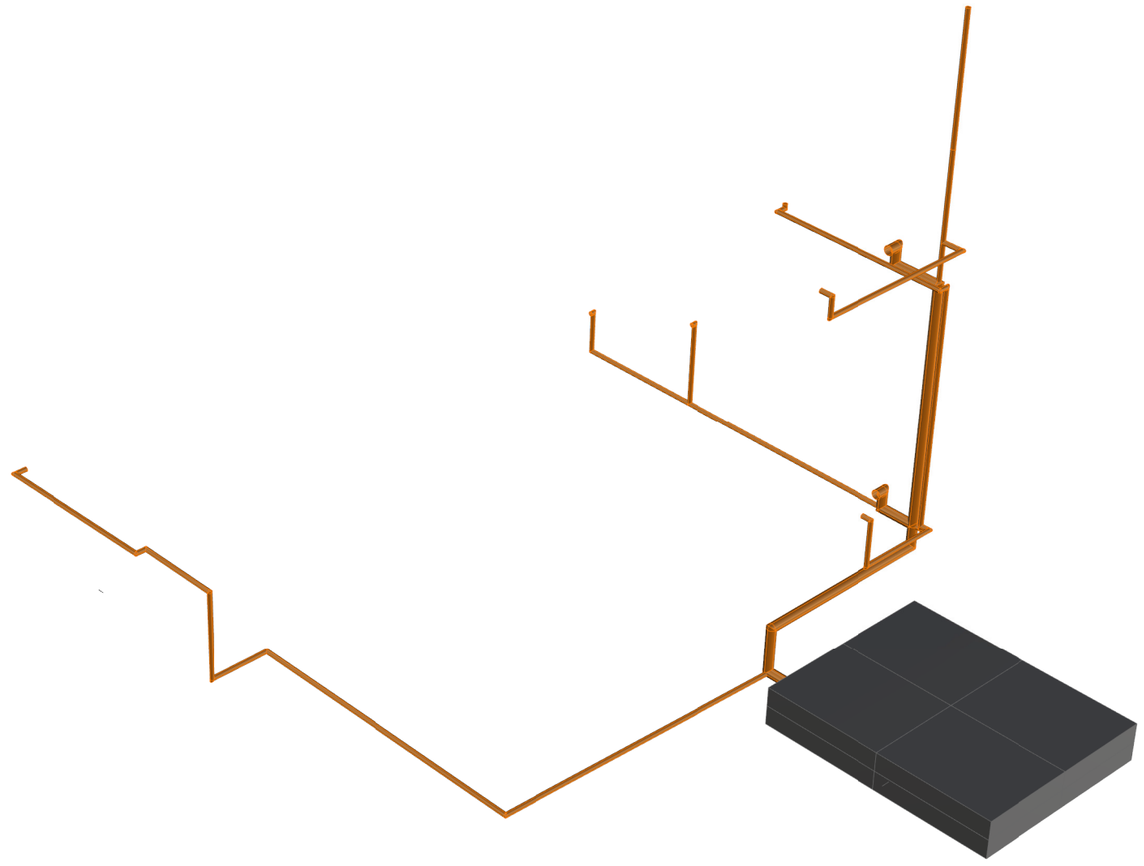
all measurements are in mm

Awarding Institution	Solar Decathlon Europe	Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin		
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR		
Project Phase	CONSTRUCTION DOCUMENTATION		
Drawing Block	PLUMBING DRAWINGS		
Drawing Subject	ISOMETRIC GREY WATER		

Revisions		
4	-- -- ----	-
3	01.06.2014	Second Revision
2	30.04.2014	First Revision
1	03.03.2014	Initial Version

Paper Size	A3
Drawing Scale	n/a
Drawing Code	**PL-211**

A3

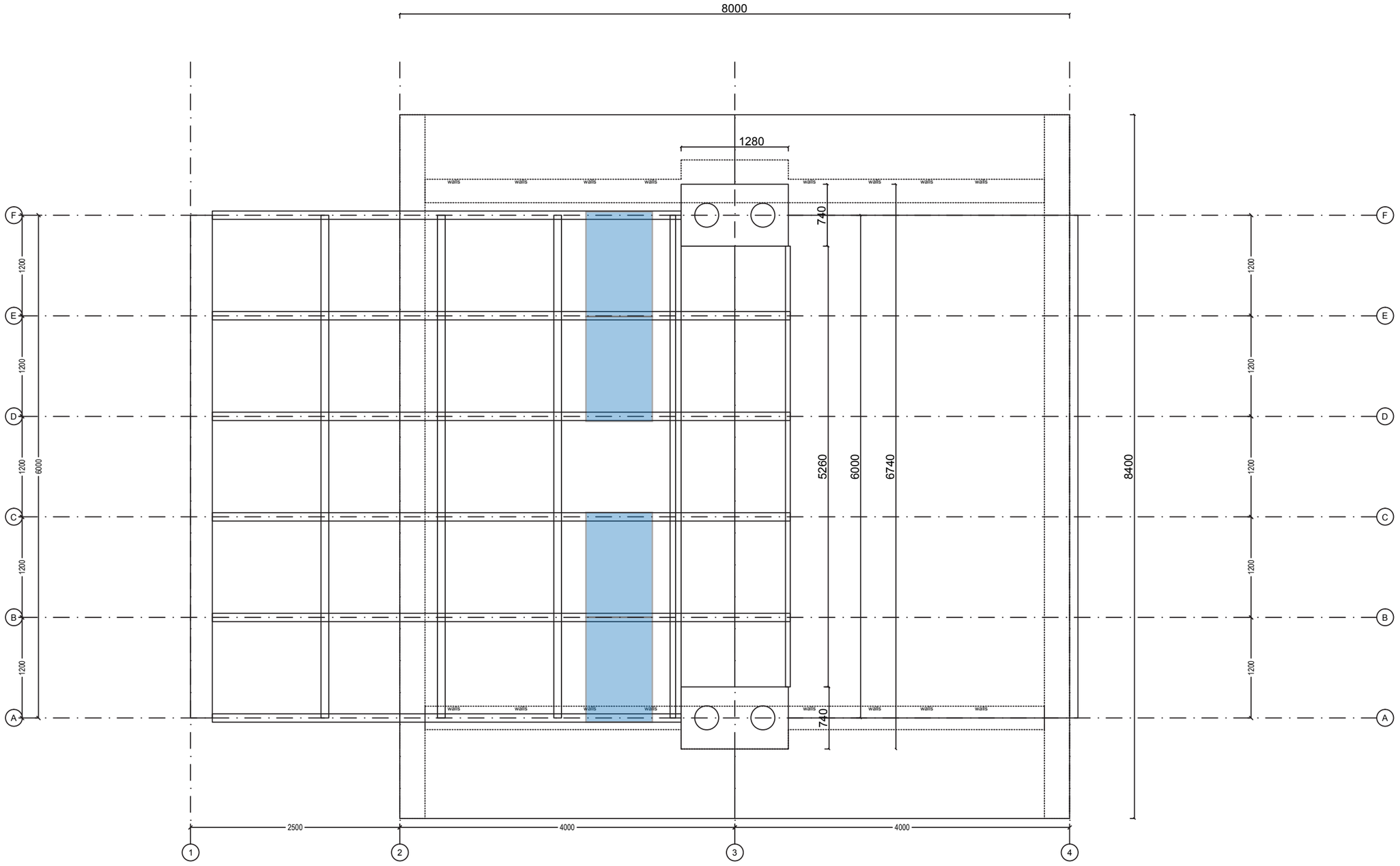


---INFORMATION---

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 -- -- ---- - ; 3 01.06.2014 Second Revision ; 2 30.04.2014 First revision ; 1 03.03.2014 Initial Version
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: PLUMBING DRAWINGS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ISOMETRIC WASTE WATER	Drawing Code: **PL-221**

A3

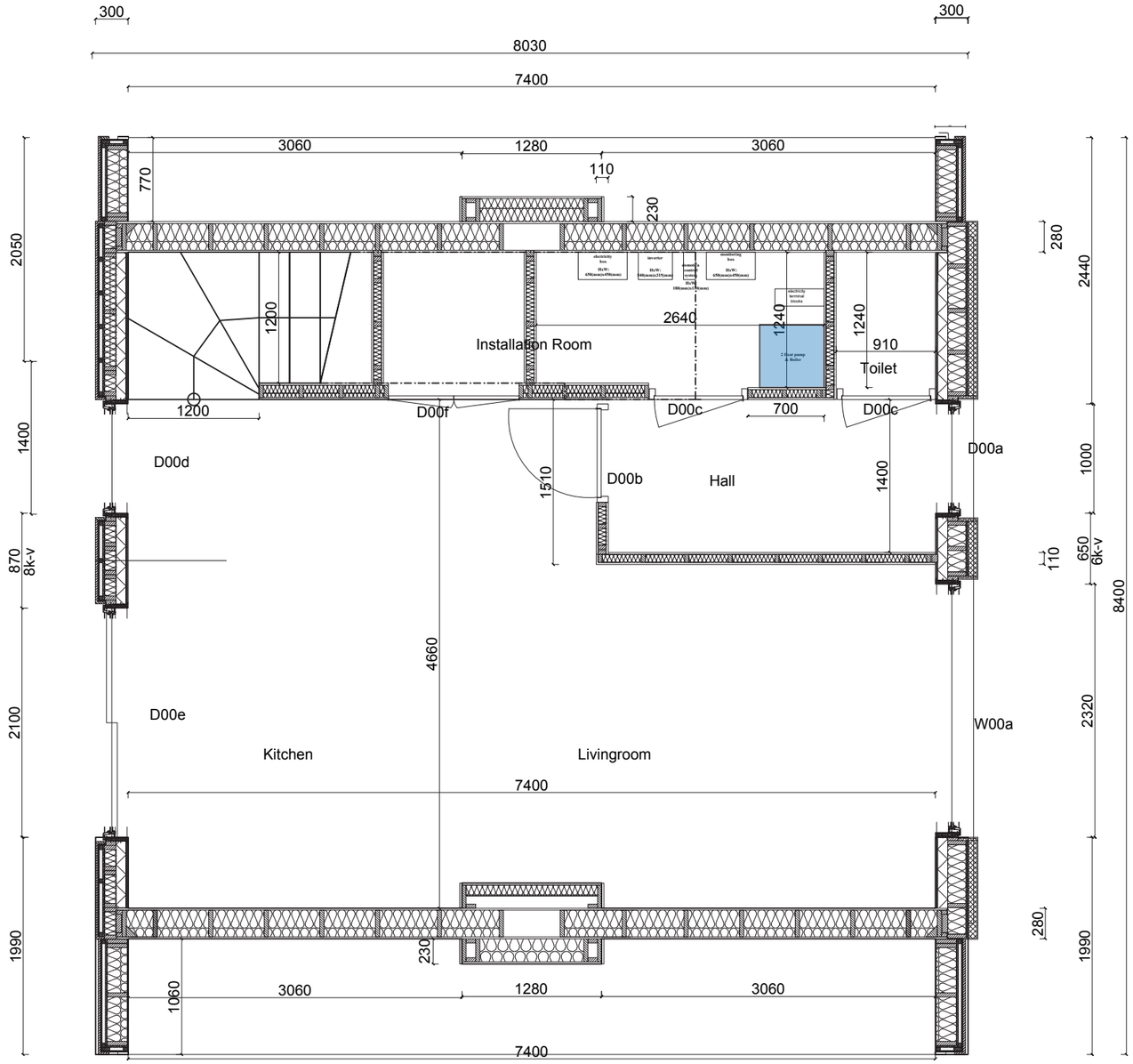


Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	ENERGY EFFICIENCY
Drawing Block	SOLAR WATER HEATING
Drawing Subject	SOLAR WATER HEATING PLAN

Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

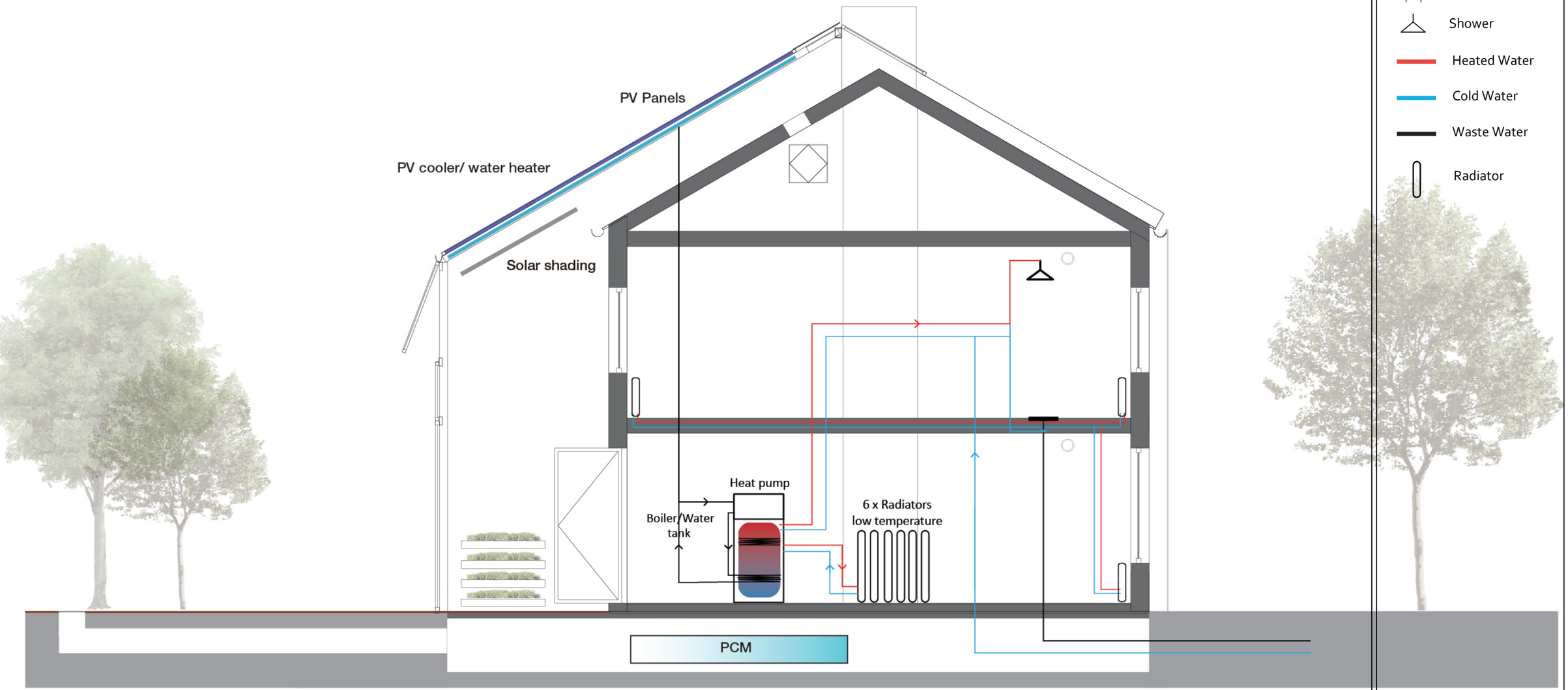
Paper Size	A3
Drawing Scale	1 : 50
Drawing Code	SW-001

A3



Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 ; 3 ; 2 ; 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: ENERGY EFFICIENCY	Paper Size: A3
		Drawing Block: SOLAR WATER HEATING	Drawing Scale: 1 : 50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: SOLAR WATER HEATING PLAN	Drawing Code: SW-002

A3



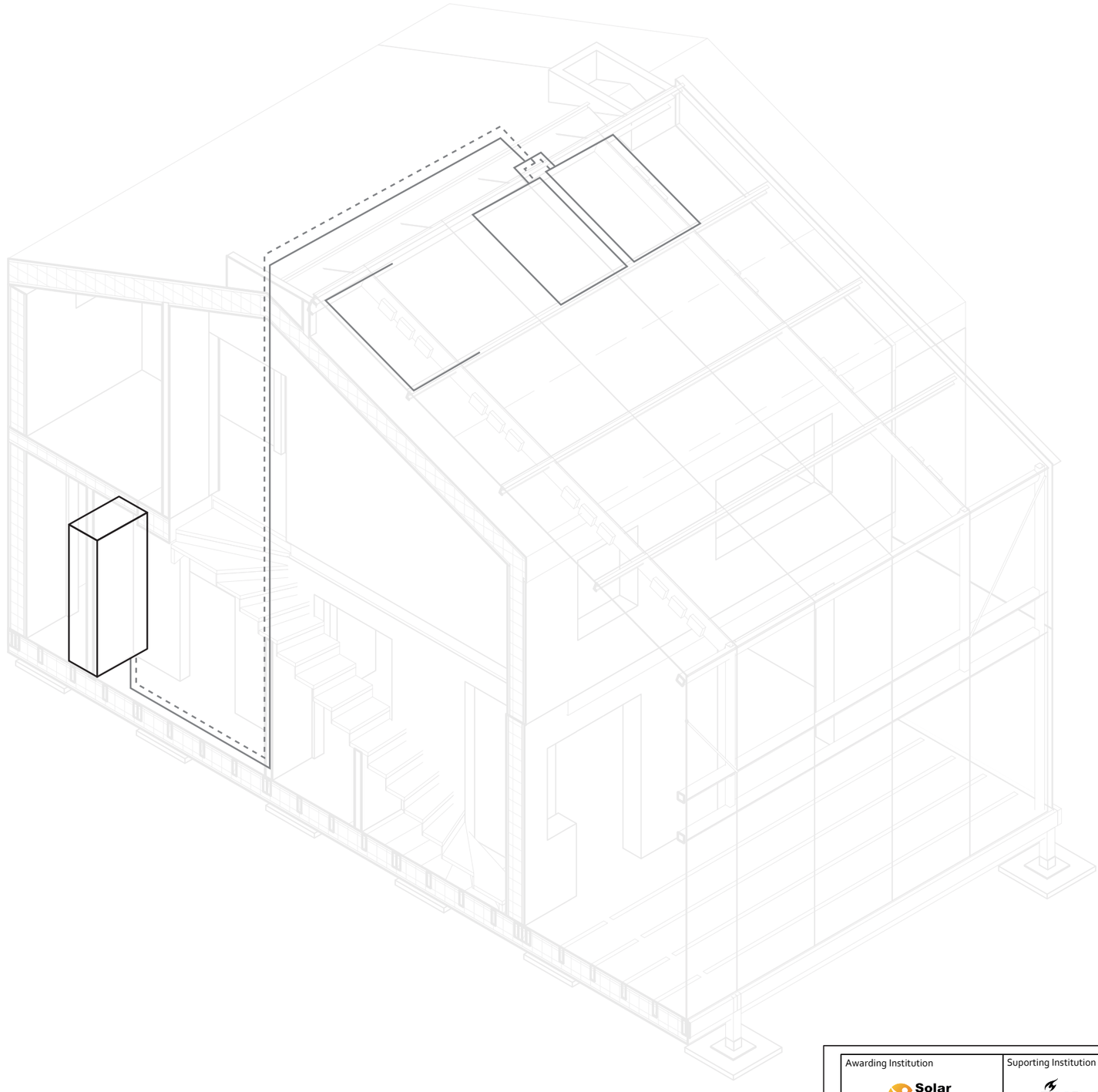
---INFORMATION---

- Inlet
- Outlet
- Heat exchanger
- Shower
- Heated Water
- Cold Water
- Waste Water
- Radiator

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	ENERGY EFFICIENCY
Drawing Block	SOLAR WATER HEATING
Drawing Subject	SOLAR WATER HEATING PLAN
Revisions	4 / 3 / 2 / 1 — 03.03.2014 — Del. 4
Paper Size	A3
Drawing Scale	1 : 50
Drawing Code	SW-003

A3



---INFORMATION---

- cold water
- hot water
- waste water
- rain water suply
- rain water return
- heating suply
- heating return
- ventilation shaft
- Spillway
- Suply and removal
- Ventilation inlet/outlet
- Ventilation grill
- PCM Box
- Heatrecovery unit
- Mechenical van
- Shower
- Dishwasher
- Dryer
- Washing machine
- Sink
- Toilet
- Water tank
- Waste water tank
- Rain water tank
- Radiator
- Energy panel

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Suporting Institution	TU Delft
Contestant	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL DRAWINGS
Drawing Subject	SOLAR WATER ISOMETRIC

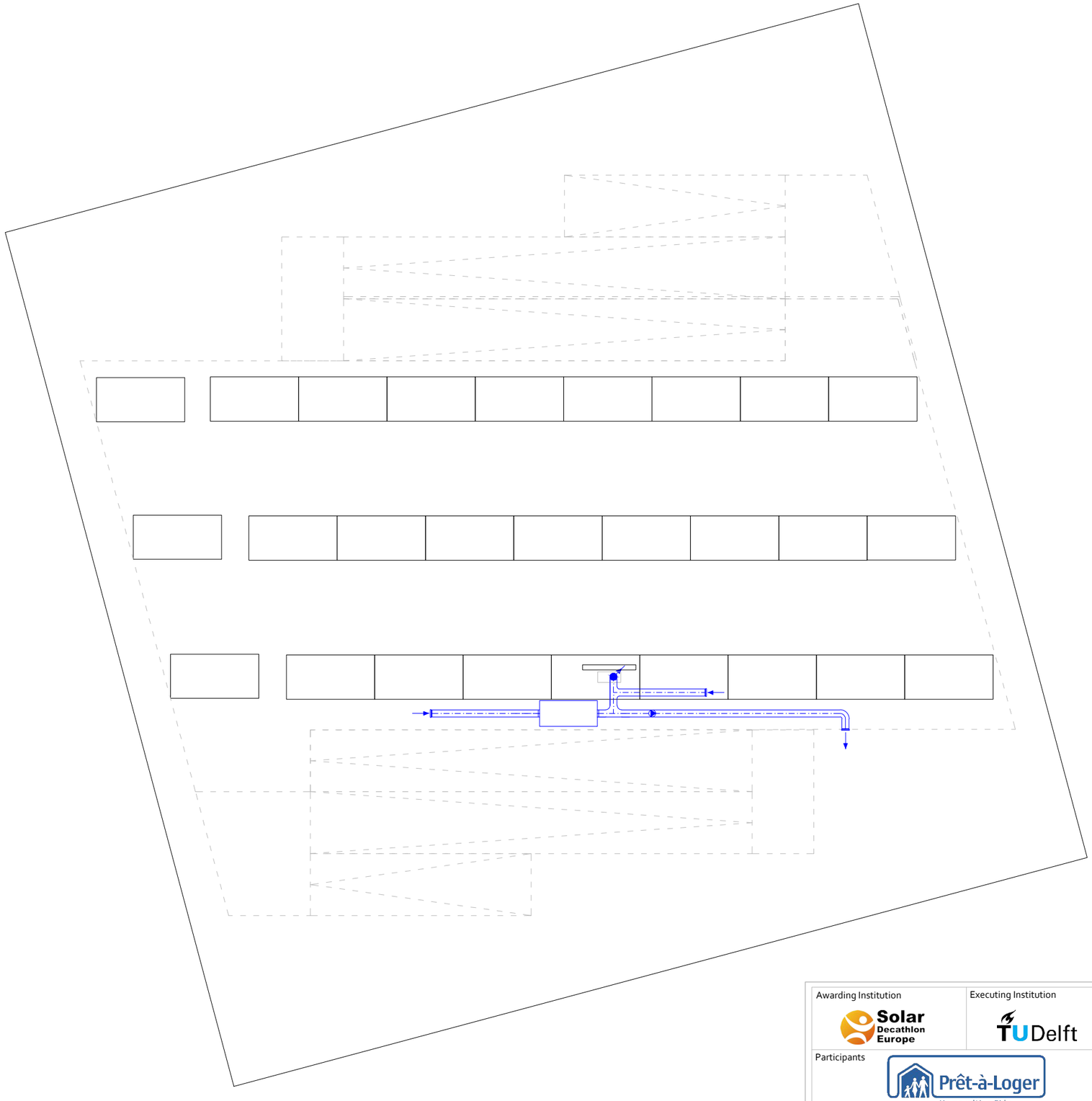
Revisions		
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size: A3

Drawing Scale: 1 : 50

Drawing Code: **SW-101**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

all measurements are in mm

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: PLUMBING PLAN

Drawing Subject: HVAC DISTRIBUTION PLAN CRAWLING SPACE

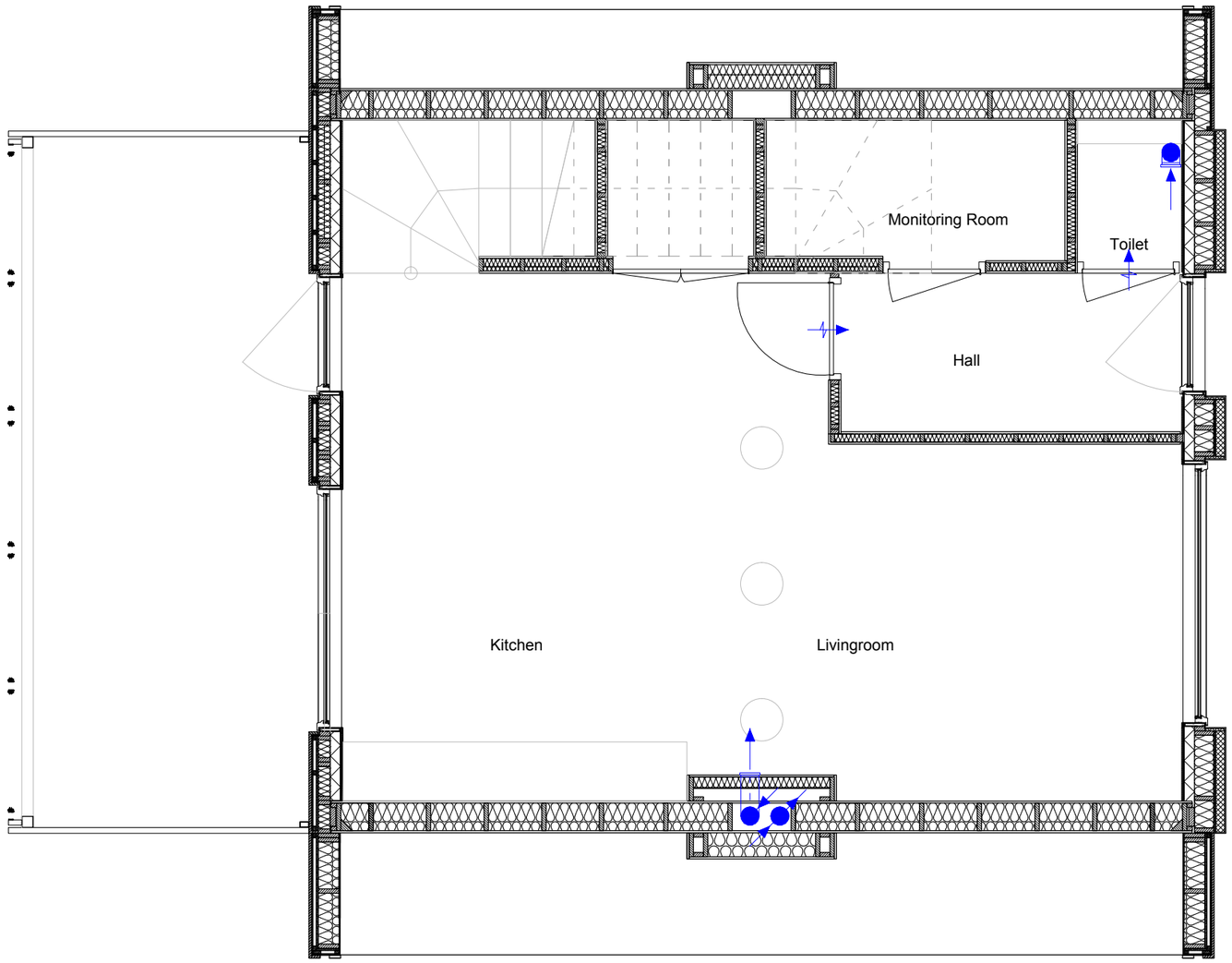
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

Drawing Code: **ME-001**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

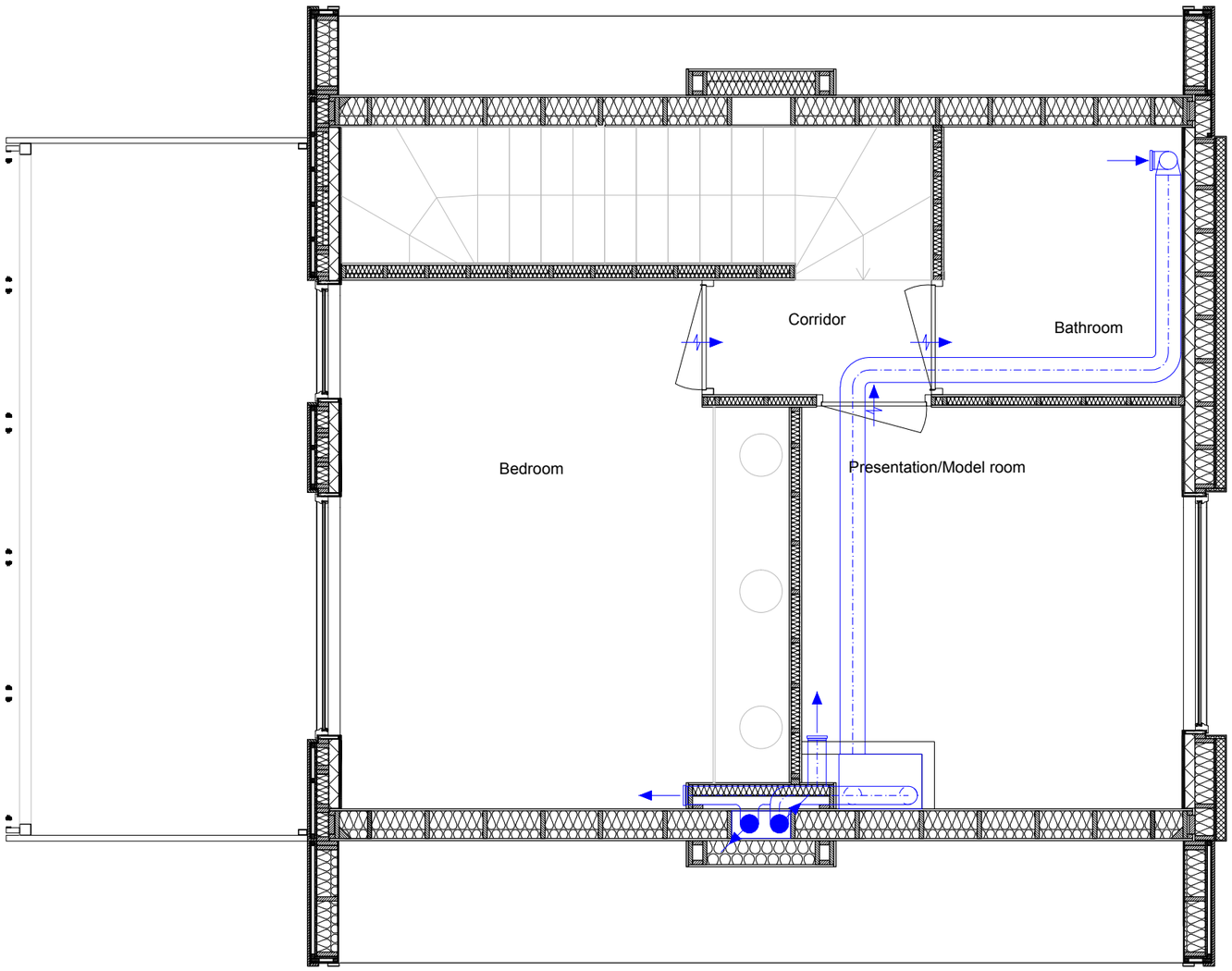
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING PLAN
Drawing Subject	HVAC DISTRIBUTION PLAN FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	ME-002

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

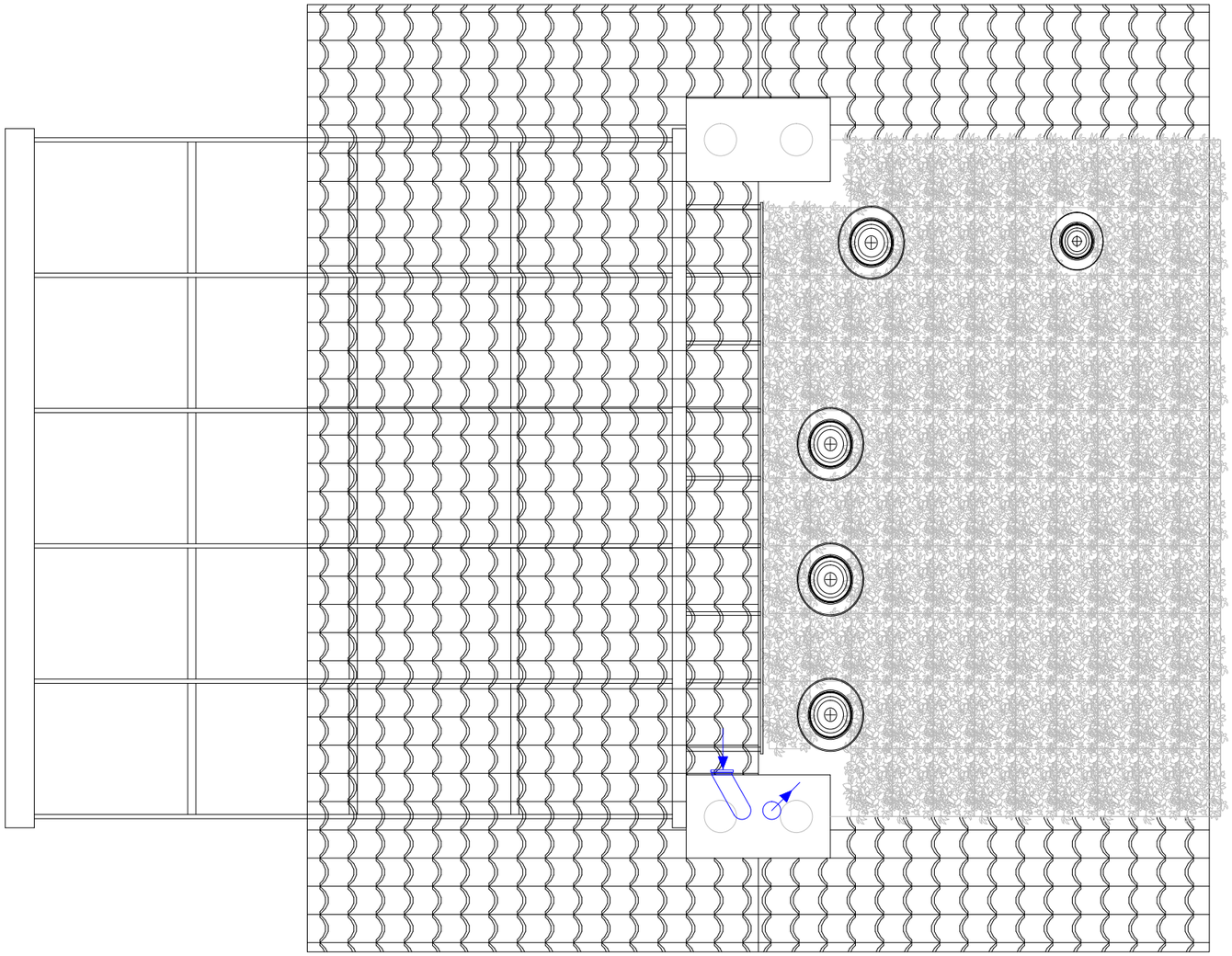
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING PLAN
Drawing Subject	HVAC DISTRIBUTION PLAN FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-003

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

all measurements are in mm

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: PLUMBING PLAN

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Drawing Subject: HVAC DISTRIBUTION PLAN ROOF

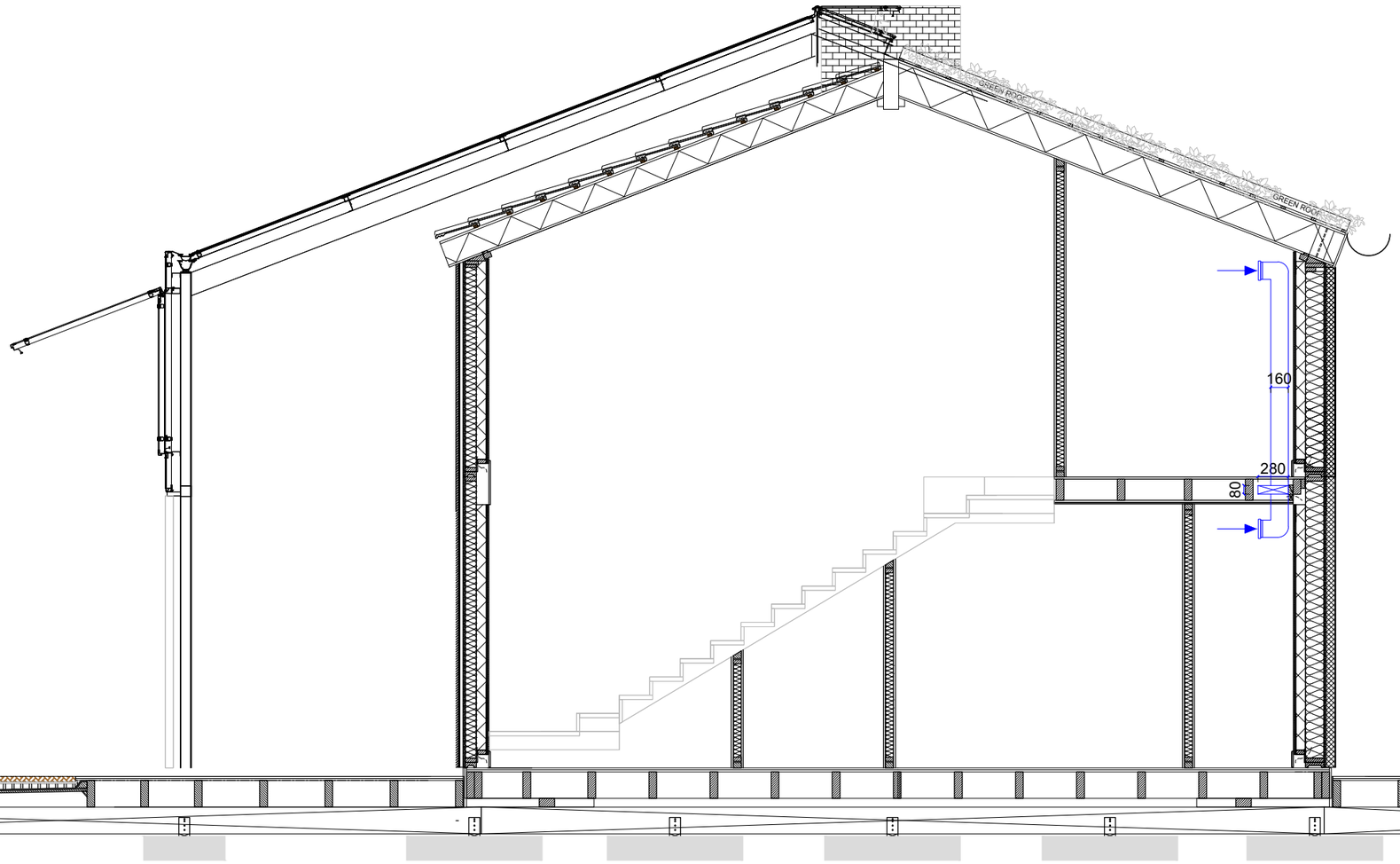
Revisions		
4	-- -- ----	-
3	-- -- ----	-
2	-- -- ----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ME-004**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

all measurements are in mm

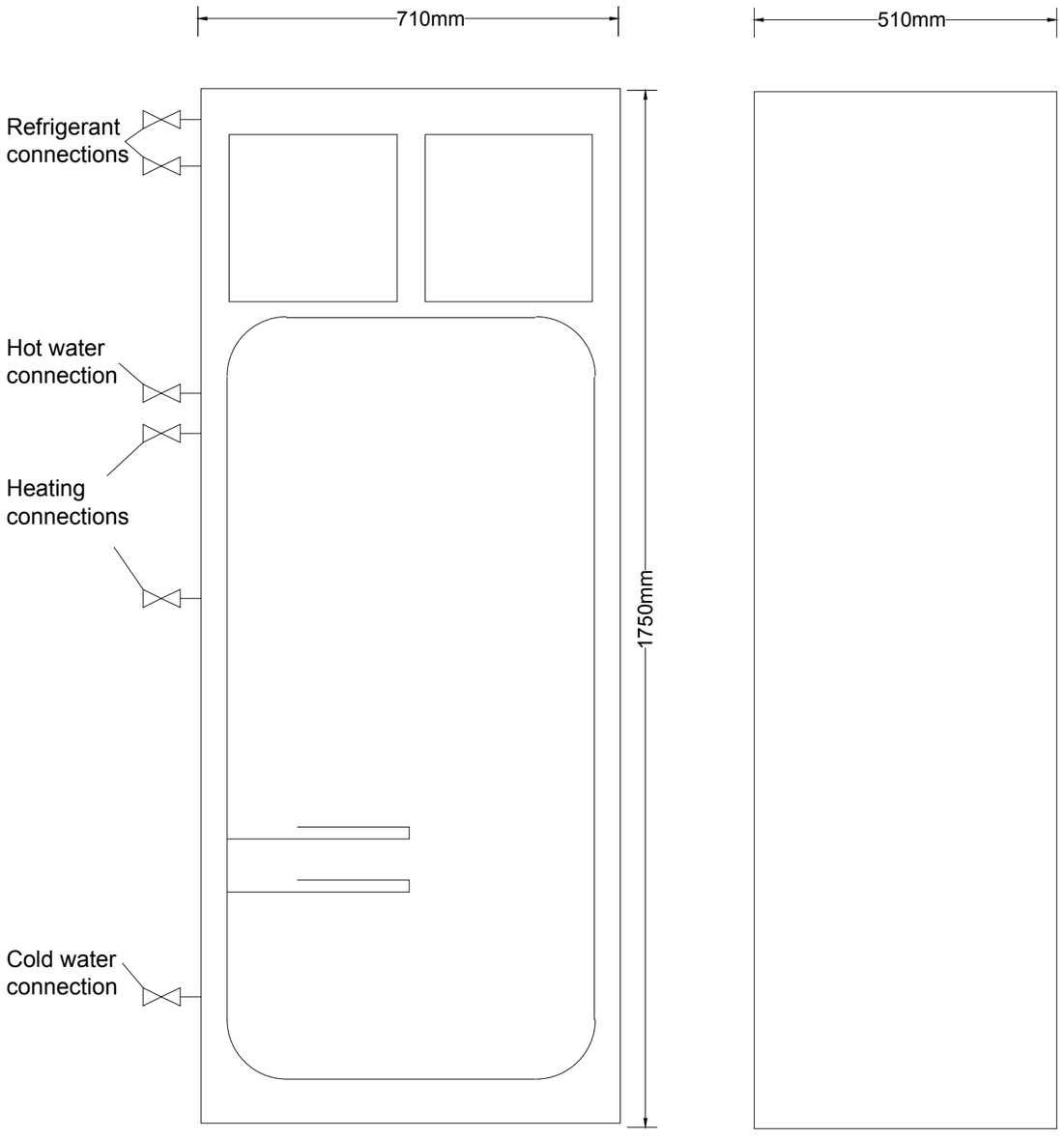
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING PLAN
Drawing Subject	HVAC DISTRIBUTION PLAN SECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

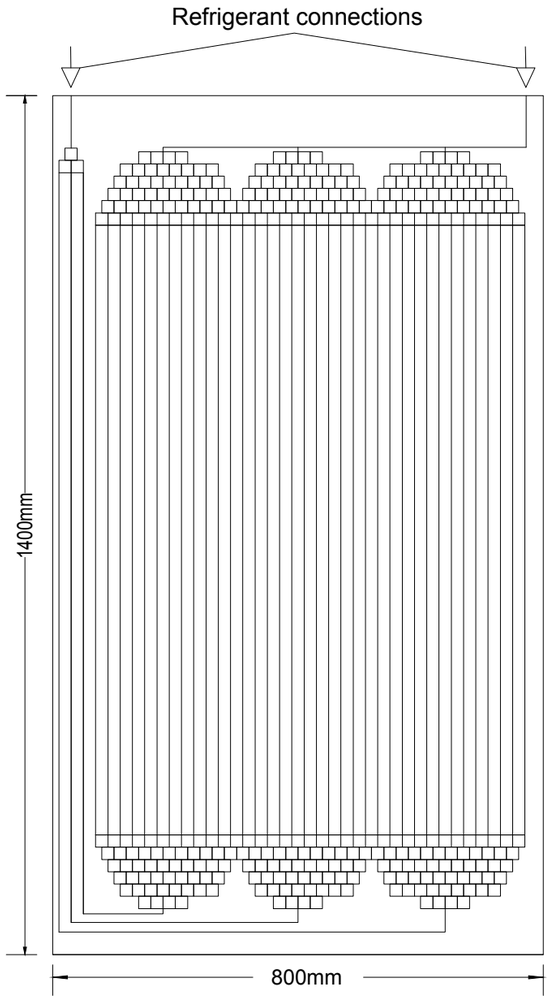
Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-005

A3

Solar Compleet
Thermodynamic boiler
capacity: 4kW



Solar Compleet
Thermodynamic panel
capacity: 500W



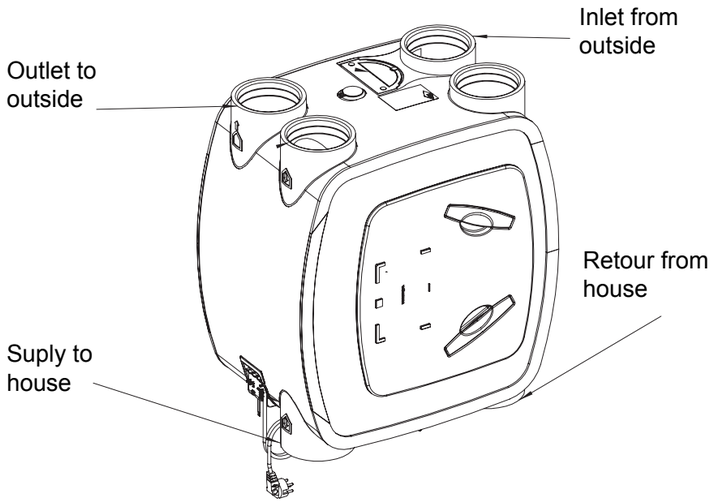
---INFORMATION---

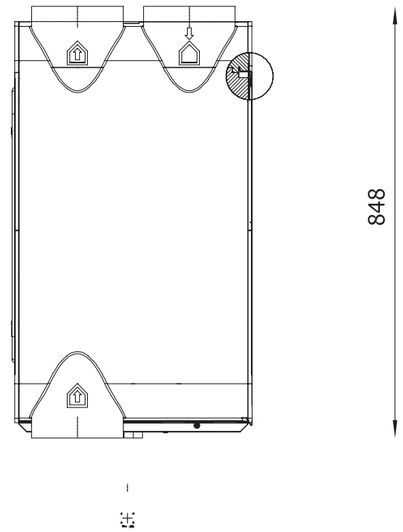
all measurements are in mm

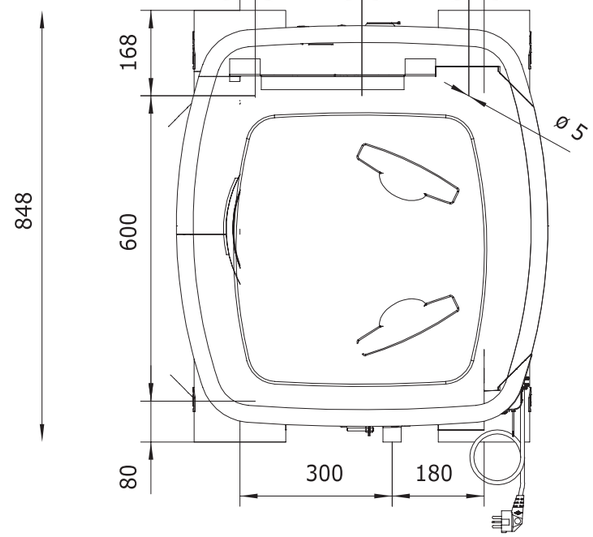
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- -; 3 --.--.---- -; 2 --.--.---- -; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: MECHENICAL	Drawing Scale: 1:10
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: HVAC EQUIPMENT HEATING	Drawing Code: ME-011

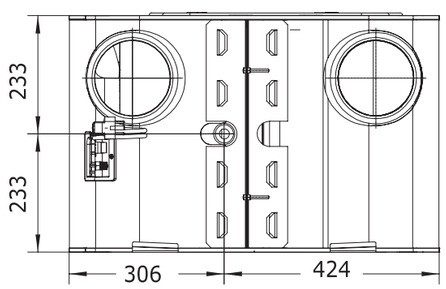
A3

Heat recovery unit
HRU ECO-fan 3
efficiency: 96%

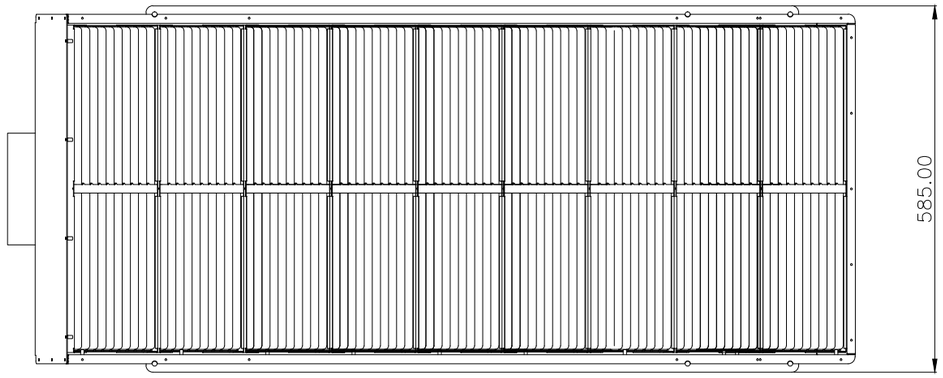


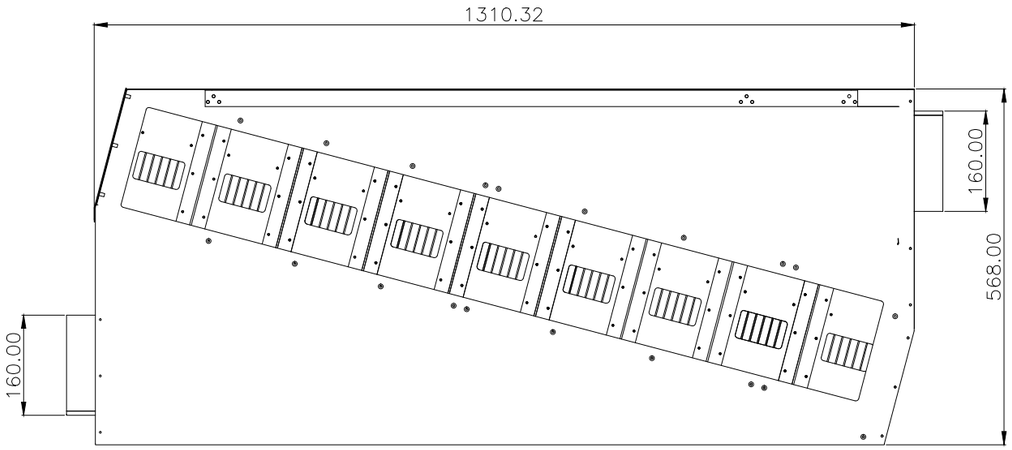






PCM Box
DCC-90 Housecooler
PCM 23





---INFORMATION---

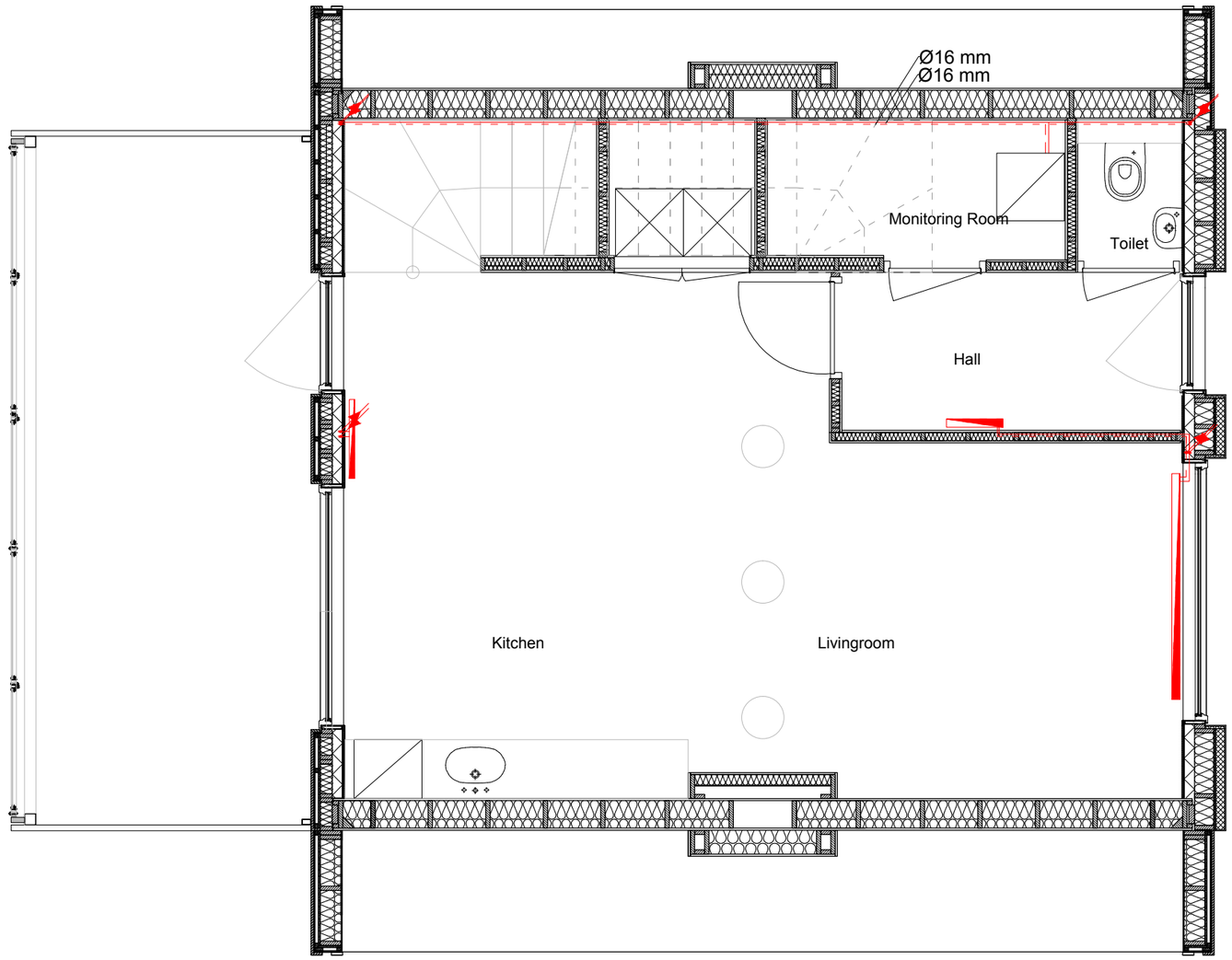
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HVAC EQUIPMENT COOLING AND VENTILATION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3
Drawing Scale: 1:10
Drawing Code: **ME-012**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

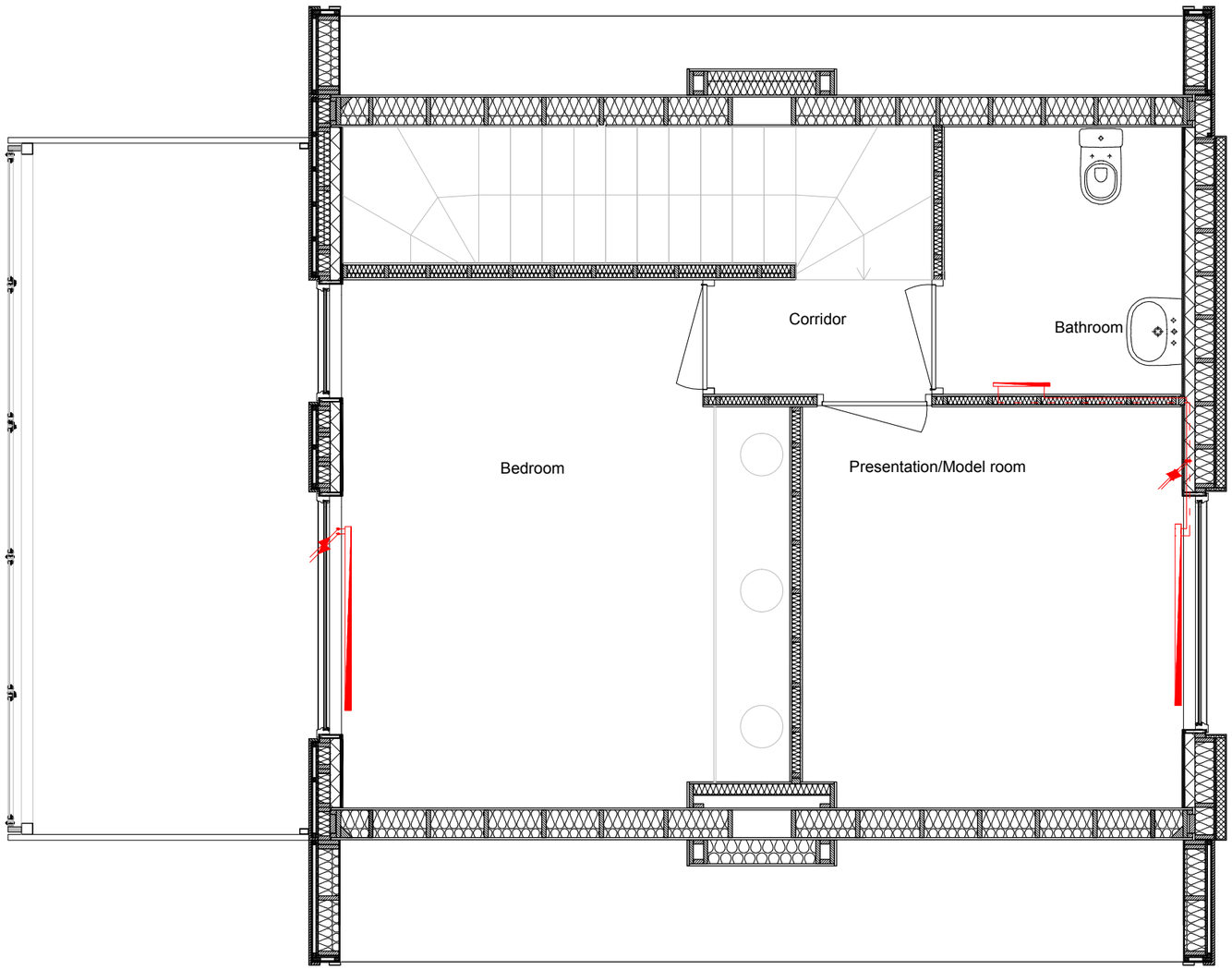
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HEATING FLOOR PLAN

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-021

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

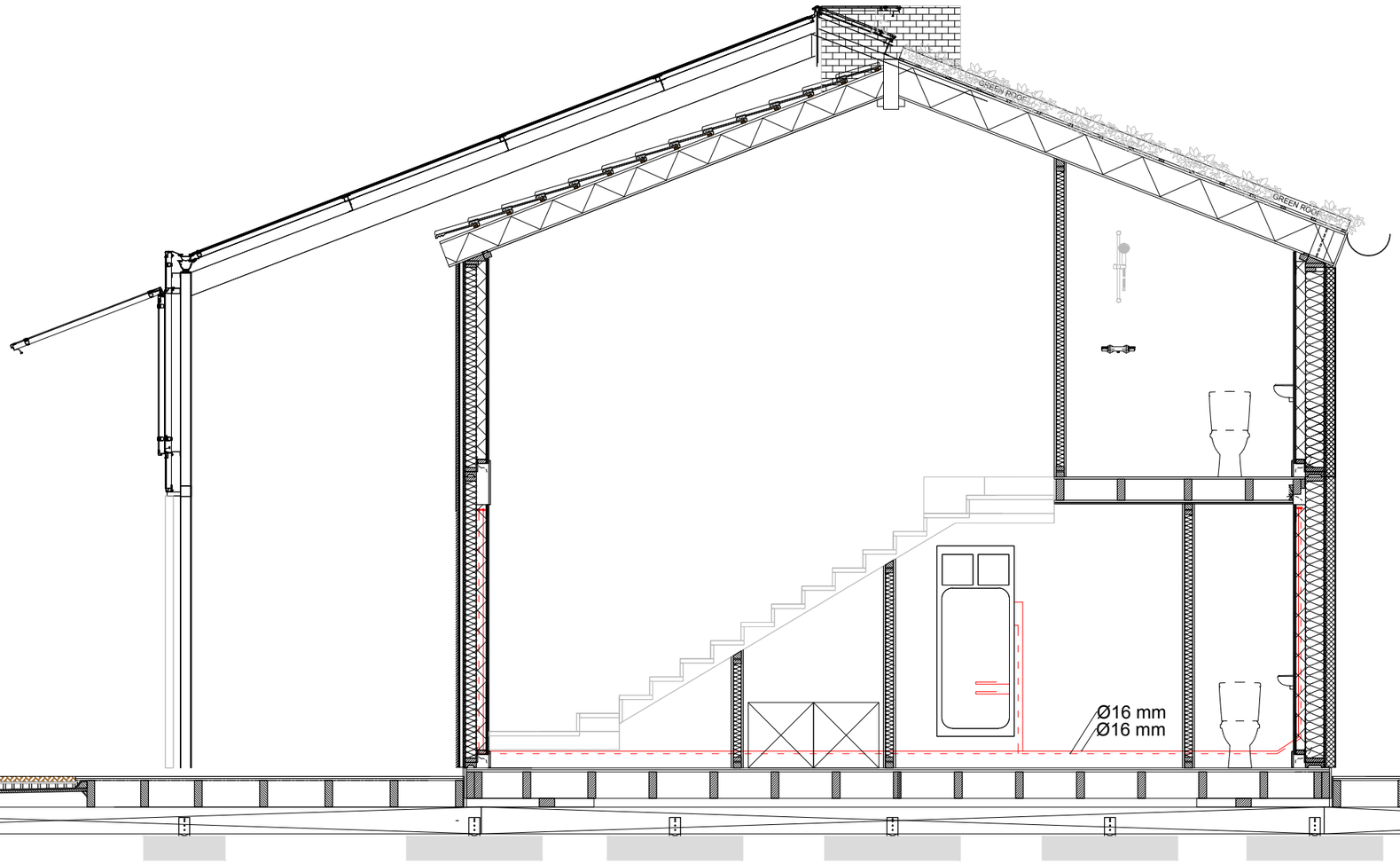
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HEATING FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-022

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

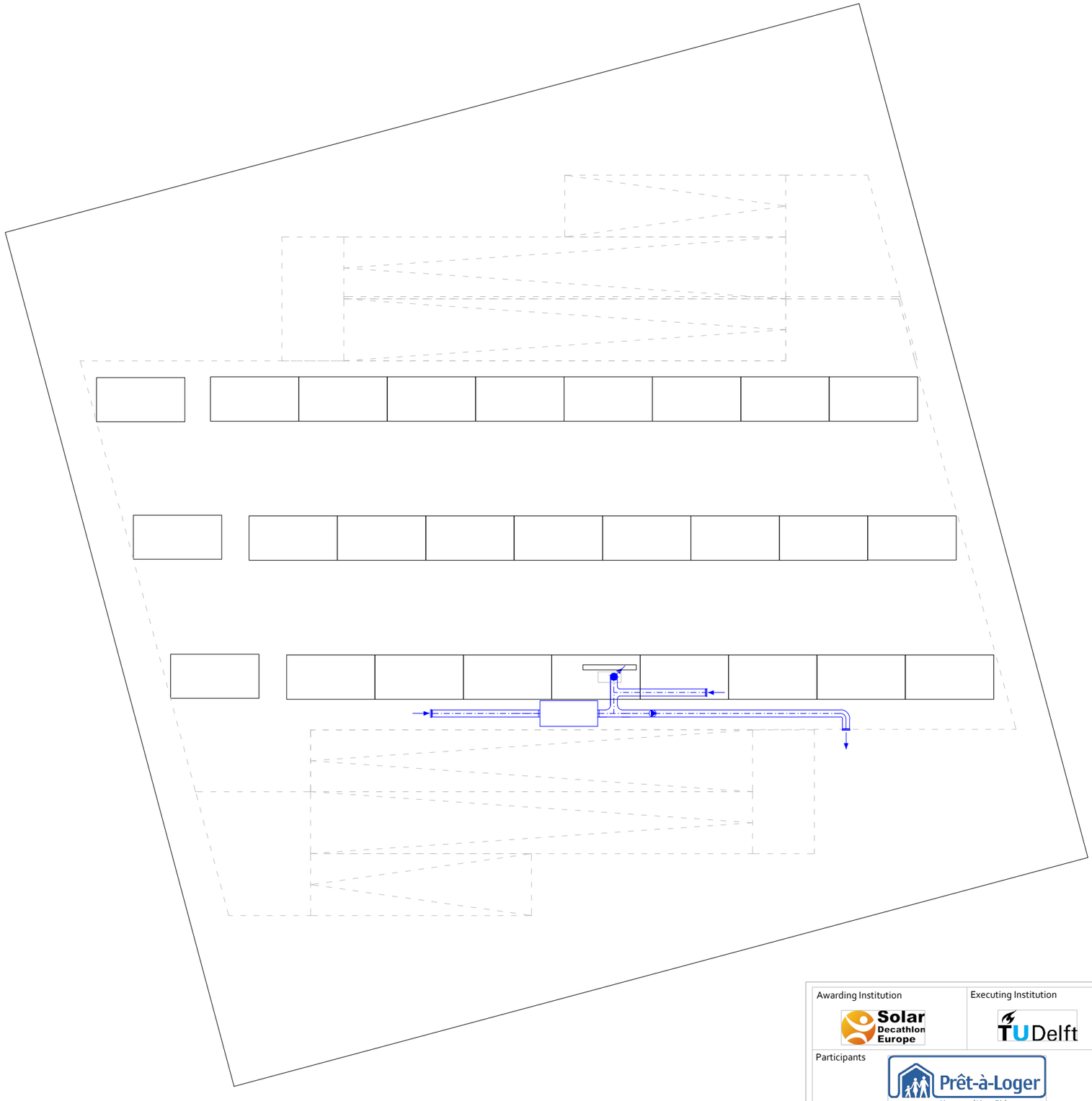
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HEATING SECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-023

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING PLAN
Drawing Subject	COOLING CRAWLING SPACE

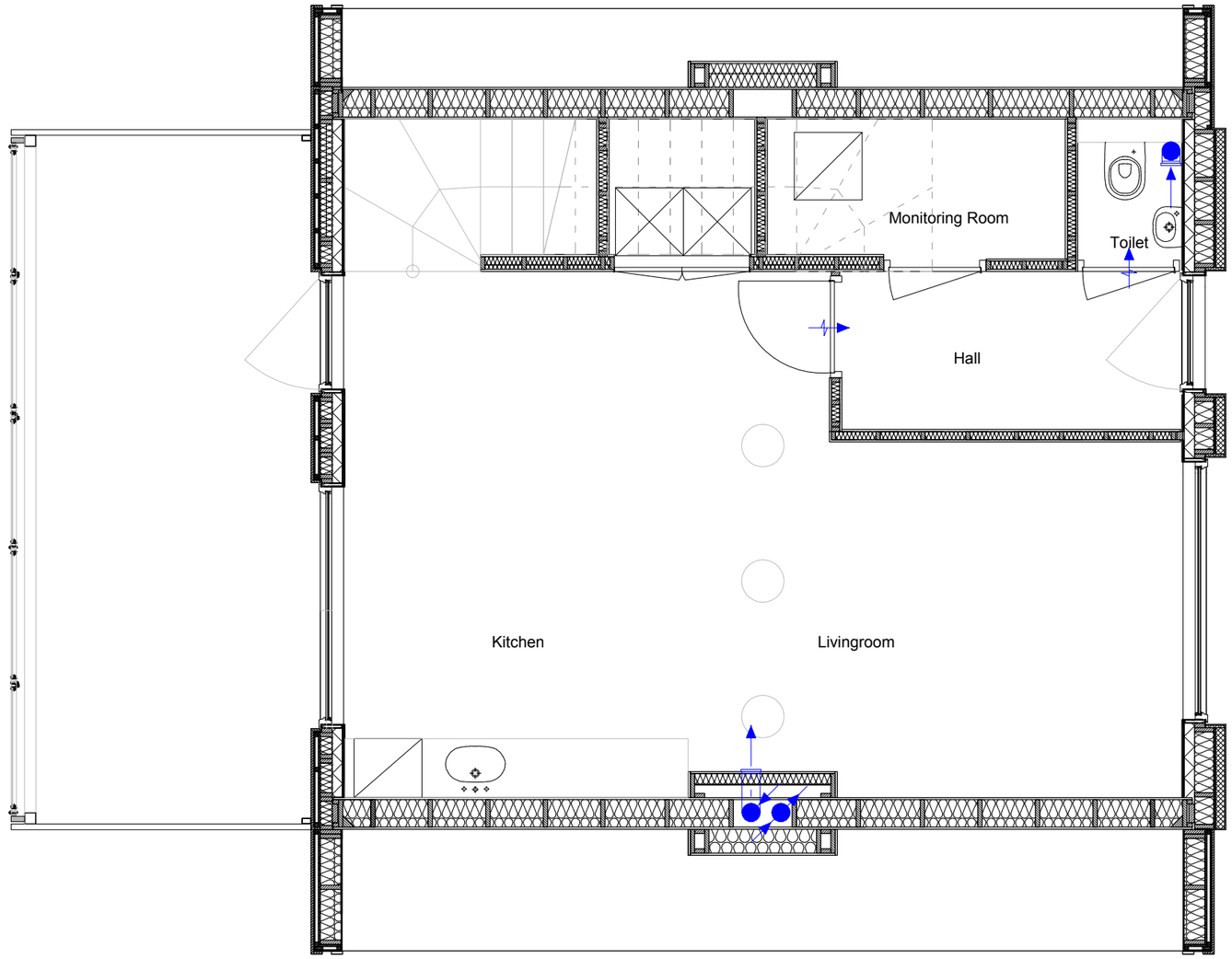
Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: 1:100

Drawing Code: **ME-031**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

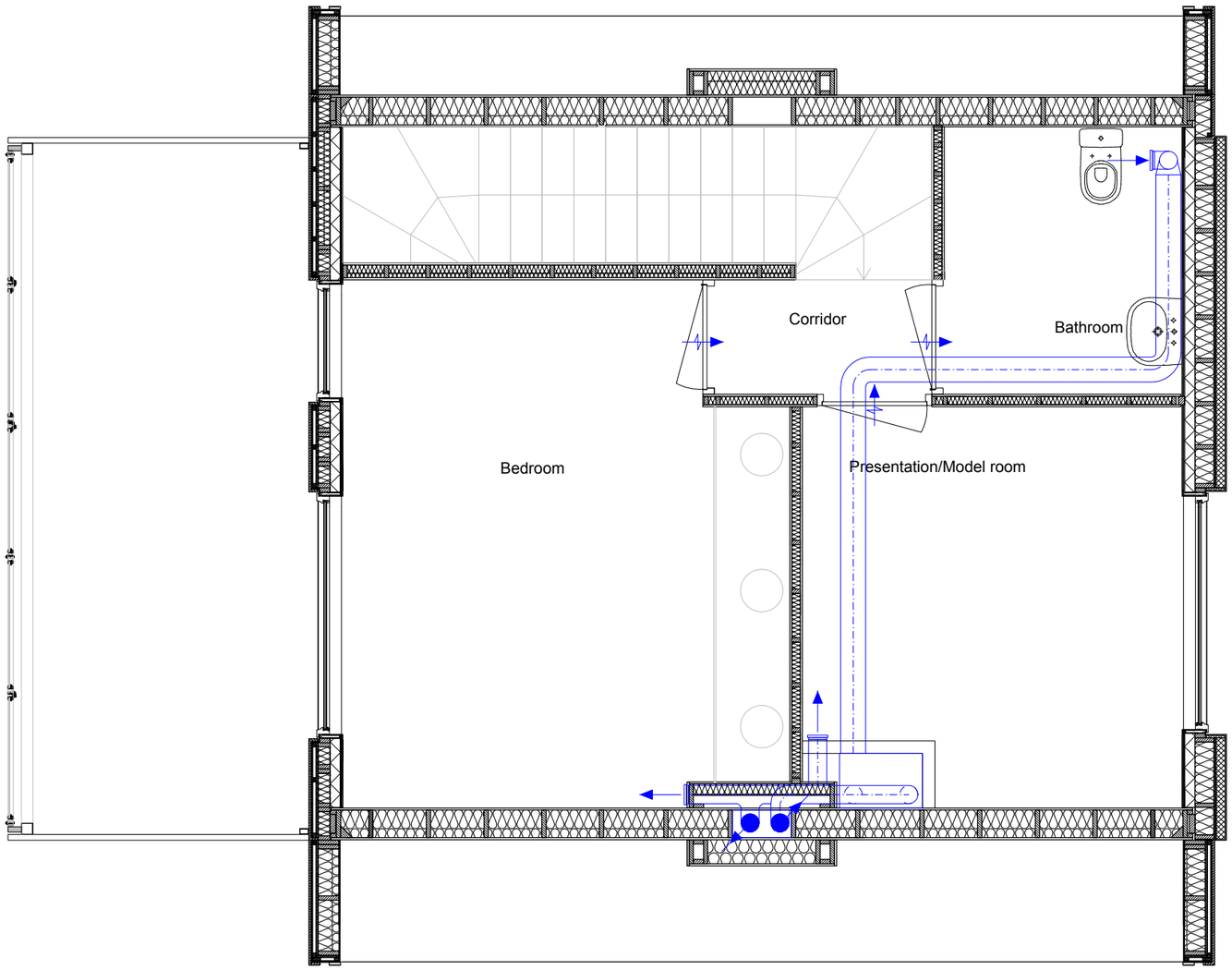
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	COOLING FLOOR PLAN

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-032

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

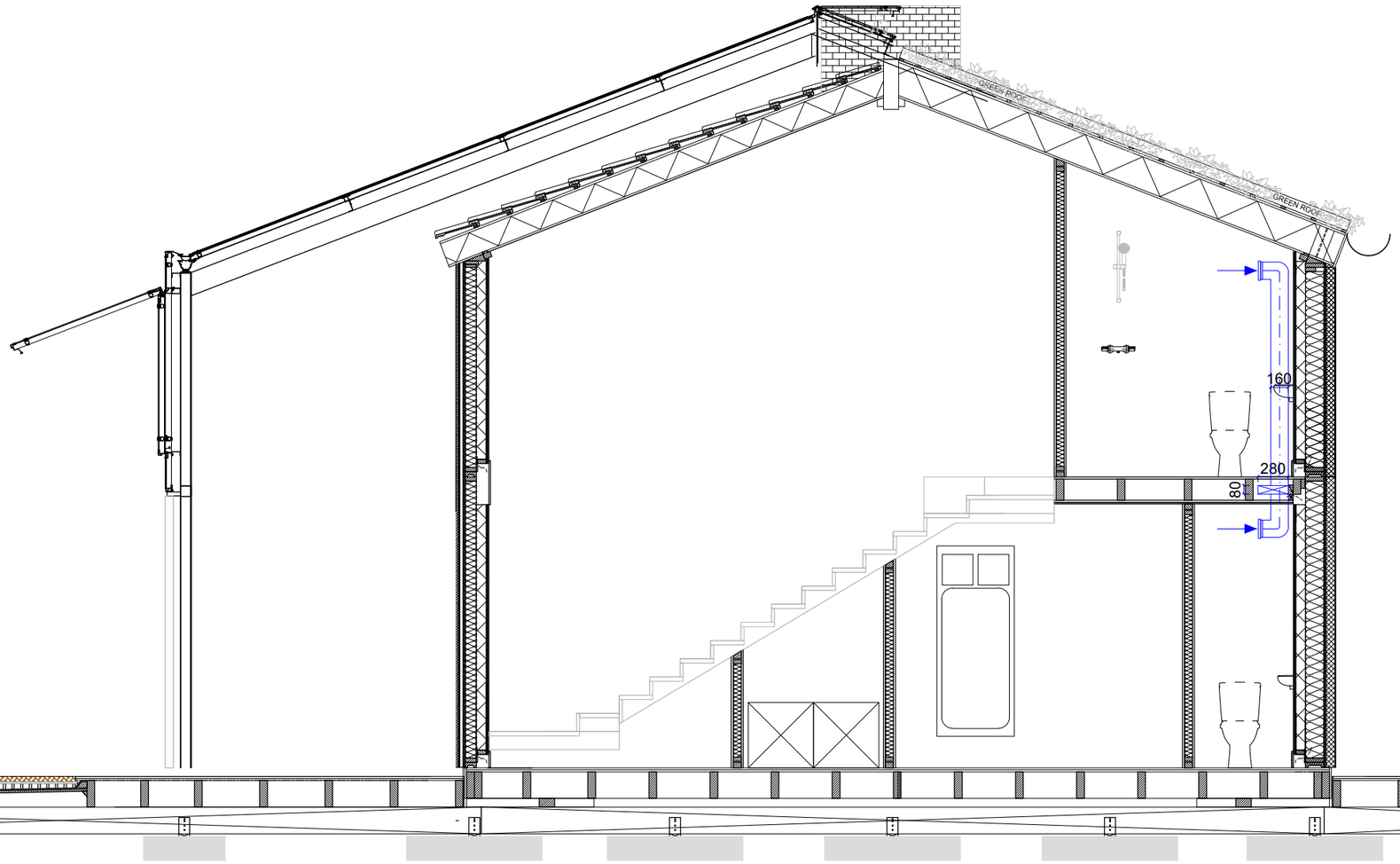
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	COOLING FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-033

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

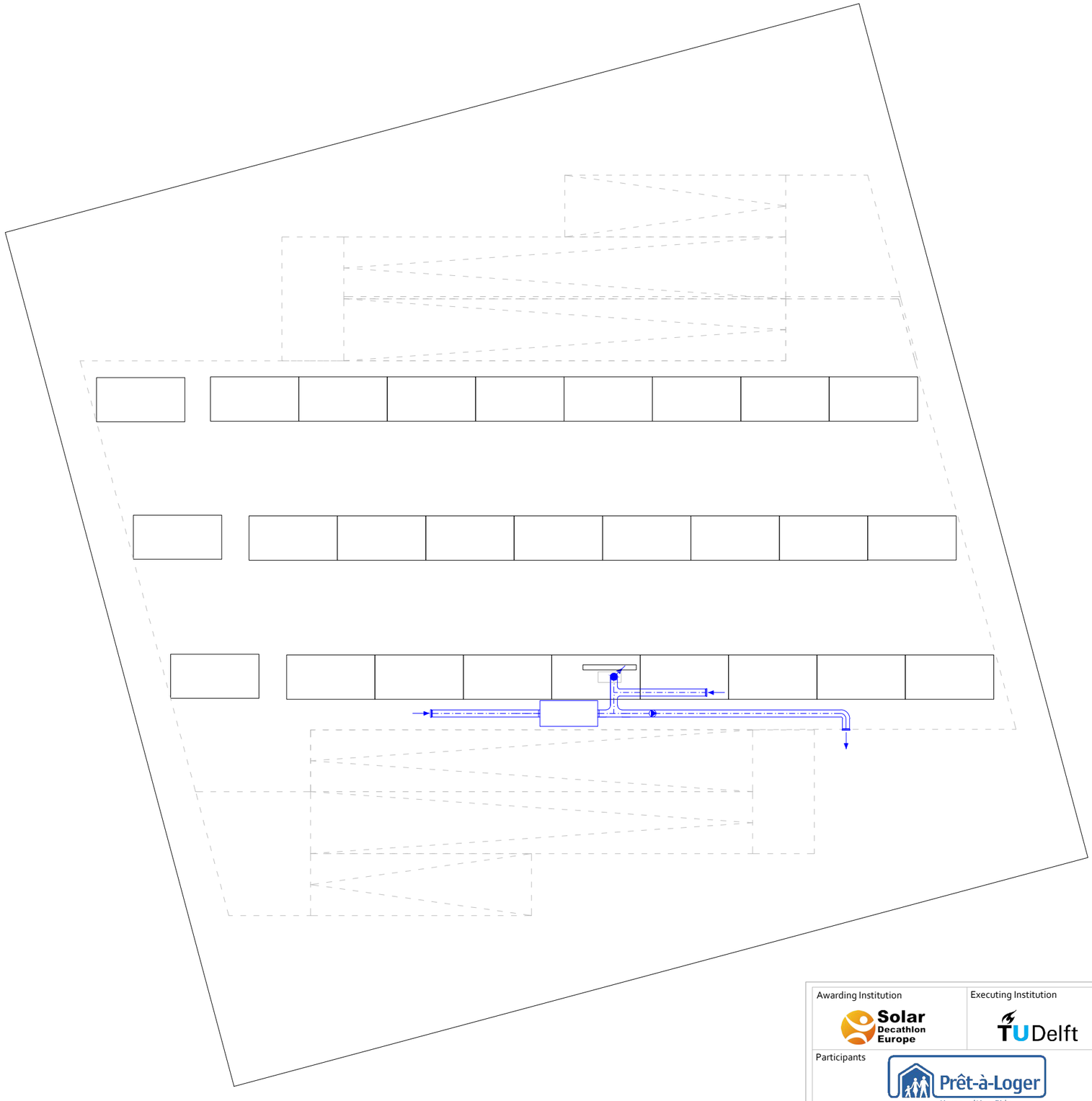
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	COOLING SECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-034

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

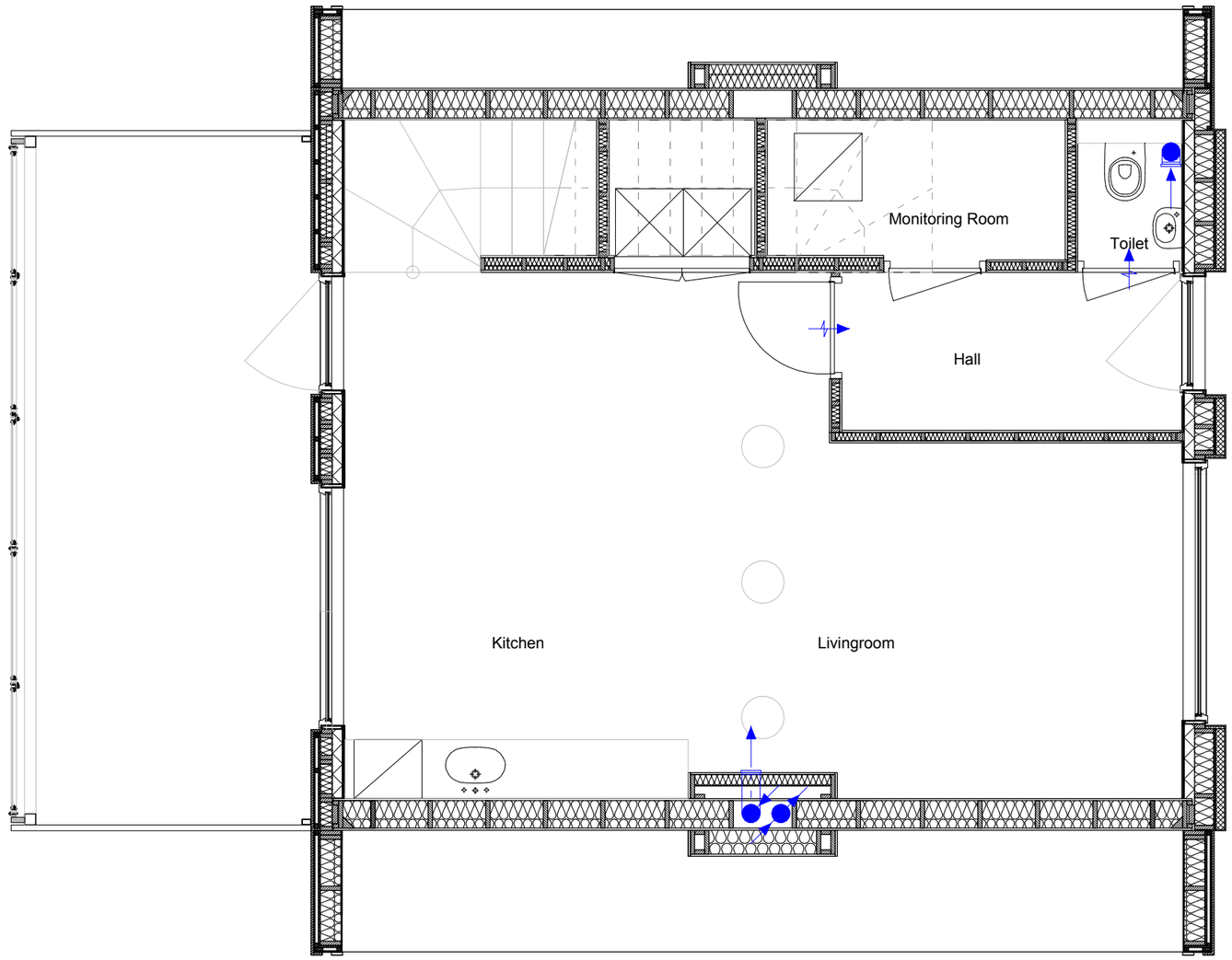
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	PLUMBING PLAN
Drawing Subject	VENTILATION CRAWLING SPACE

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	ME-041

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

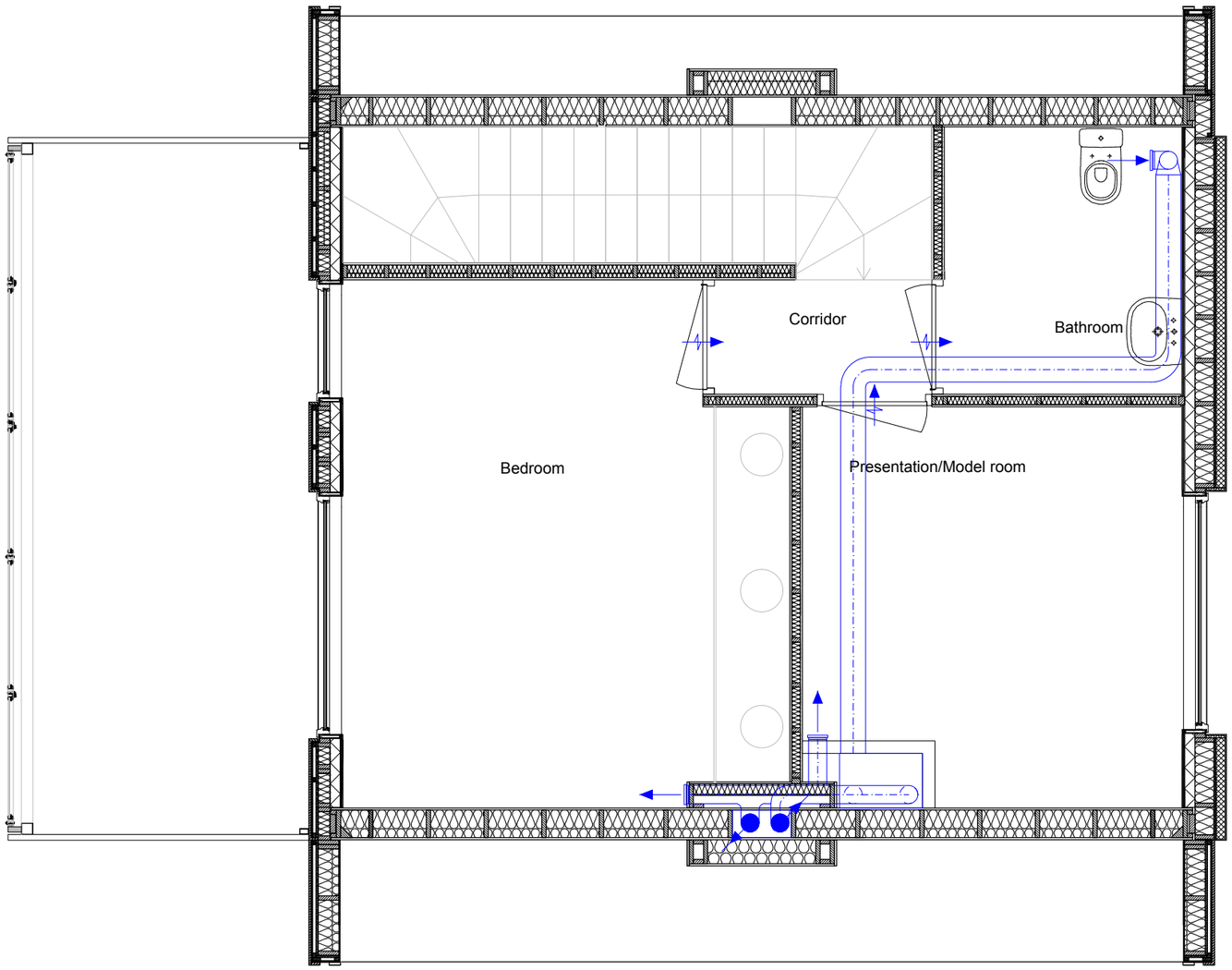
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	VENTILATION FLOOR PLAN

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-042

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

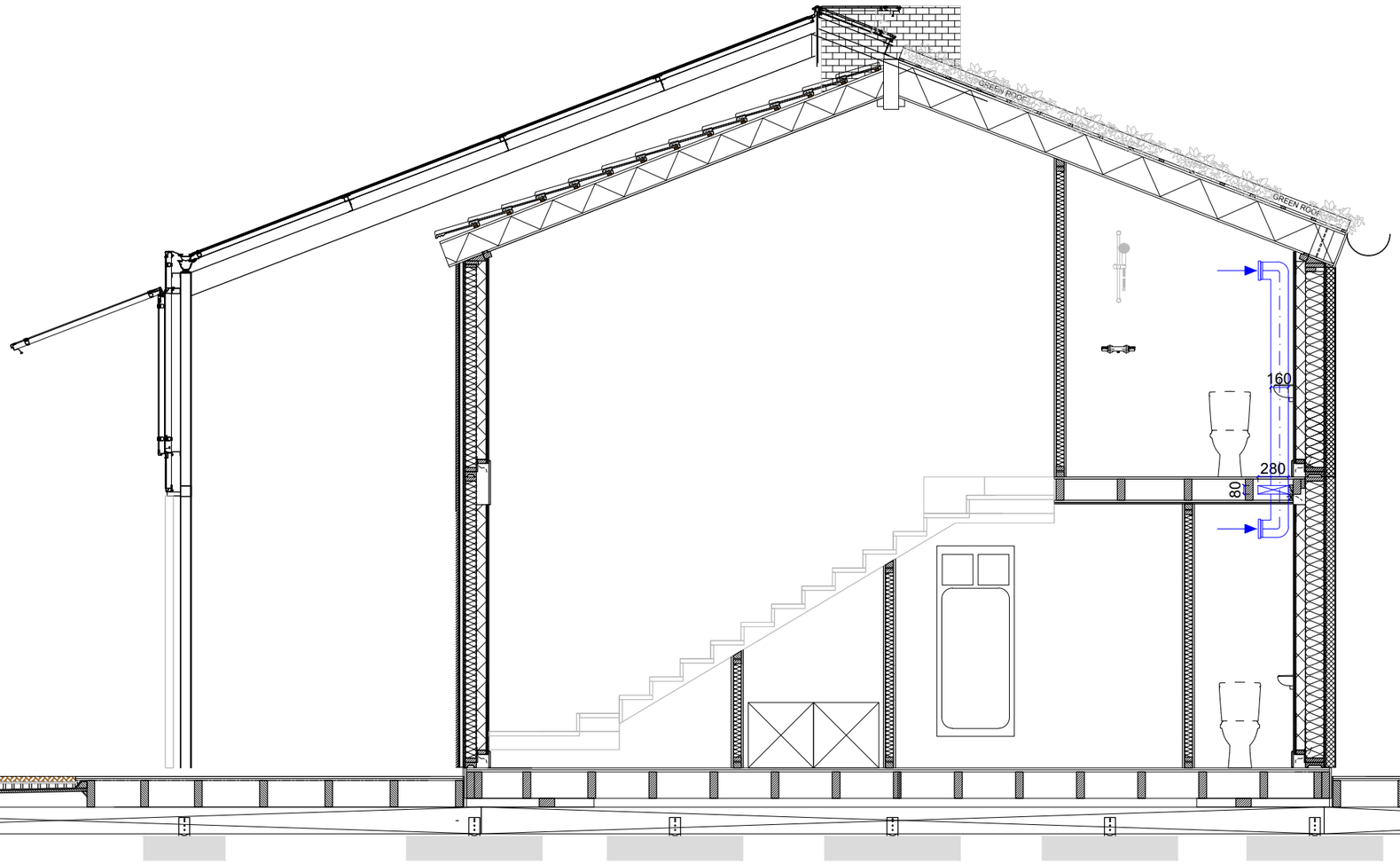
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	VENTILATION FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-043

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

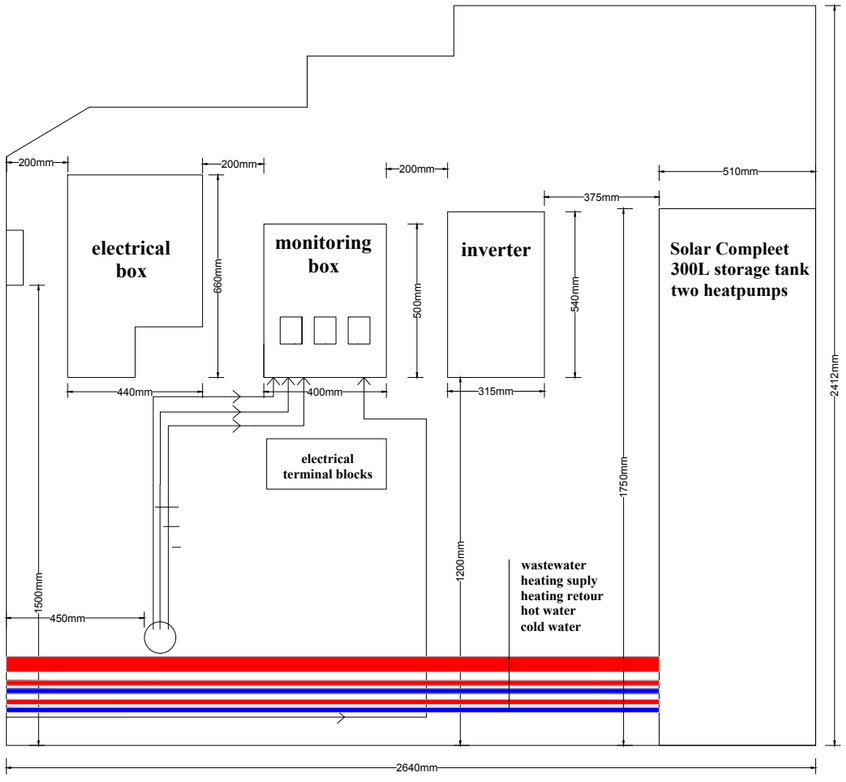
all measurements are in mm

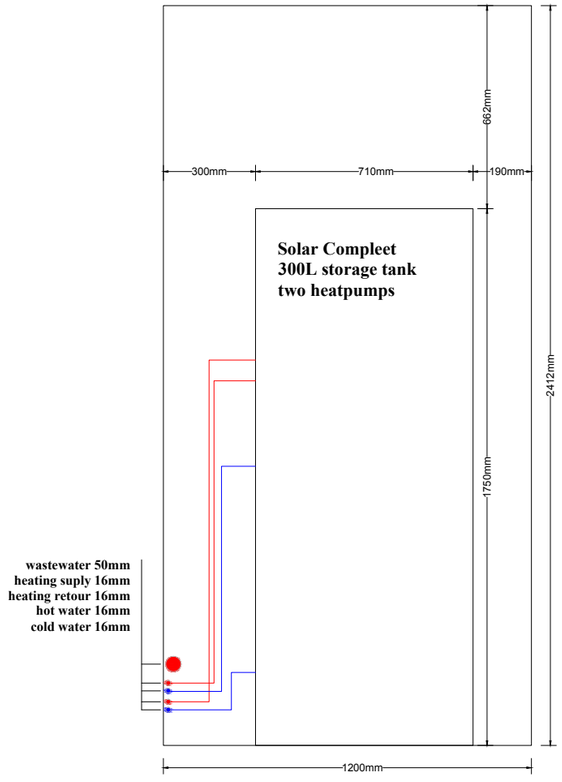
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	VENTILATION SECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	ME-044

A3





Mechanical room wall elevation

---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

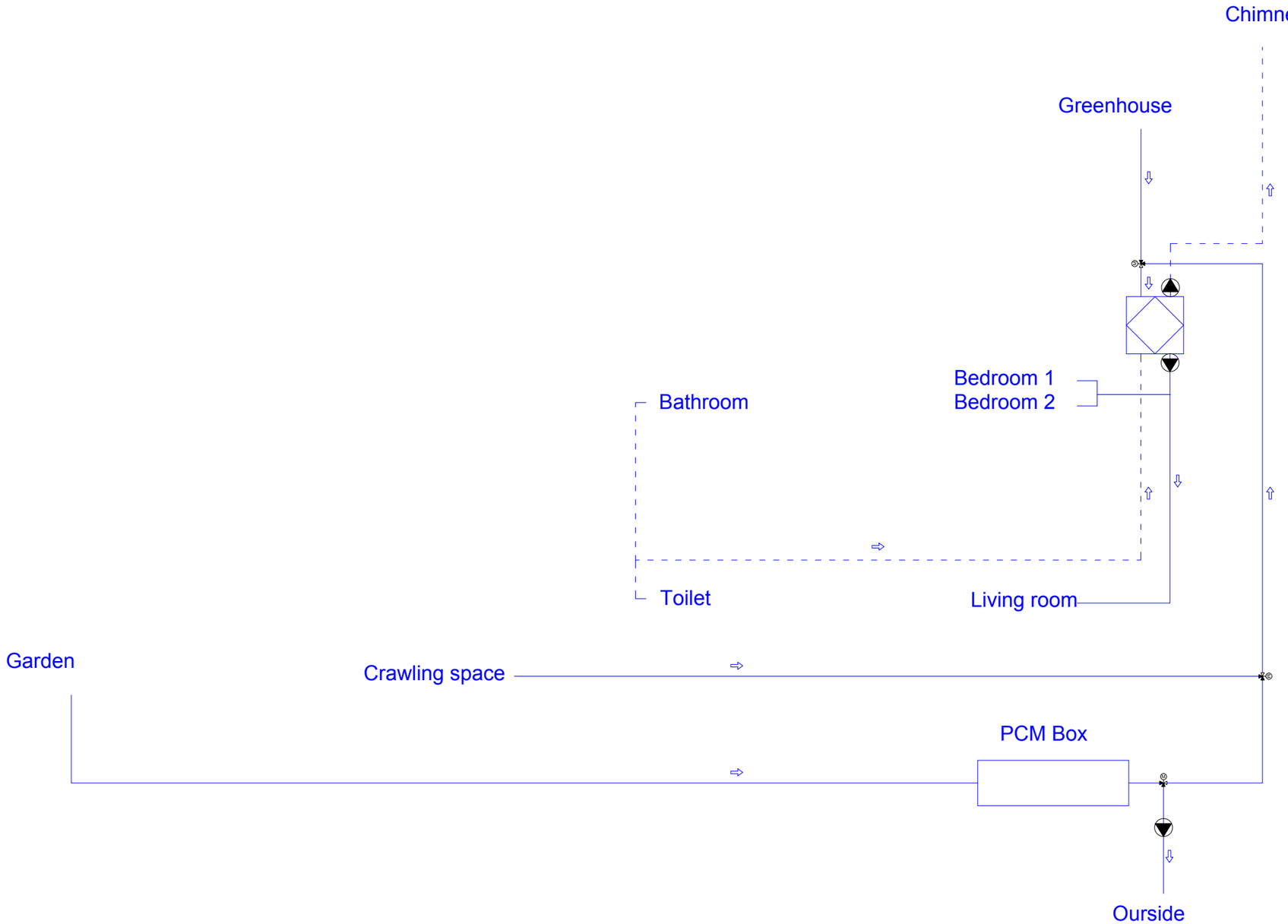
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	MECHANICAL ROOM ELEVATION

Revisions		
4	-- -- ----	-
3	-- -- ----	-
2	-- -- ----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:20
Drawing Code	ME-101

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

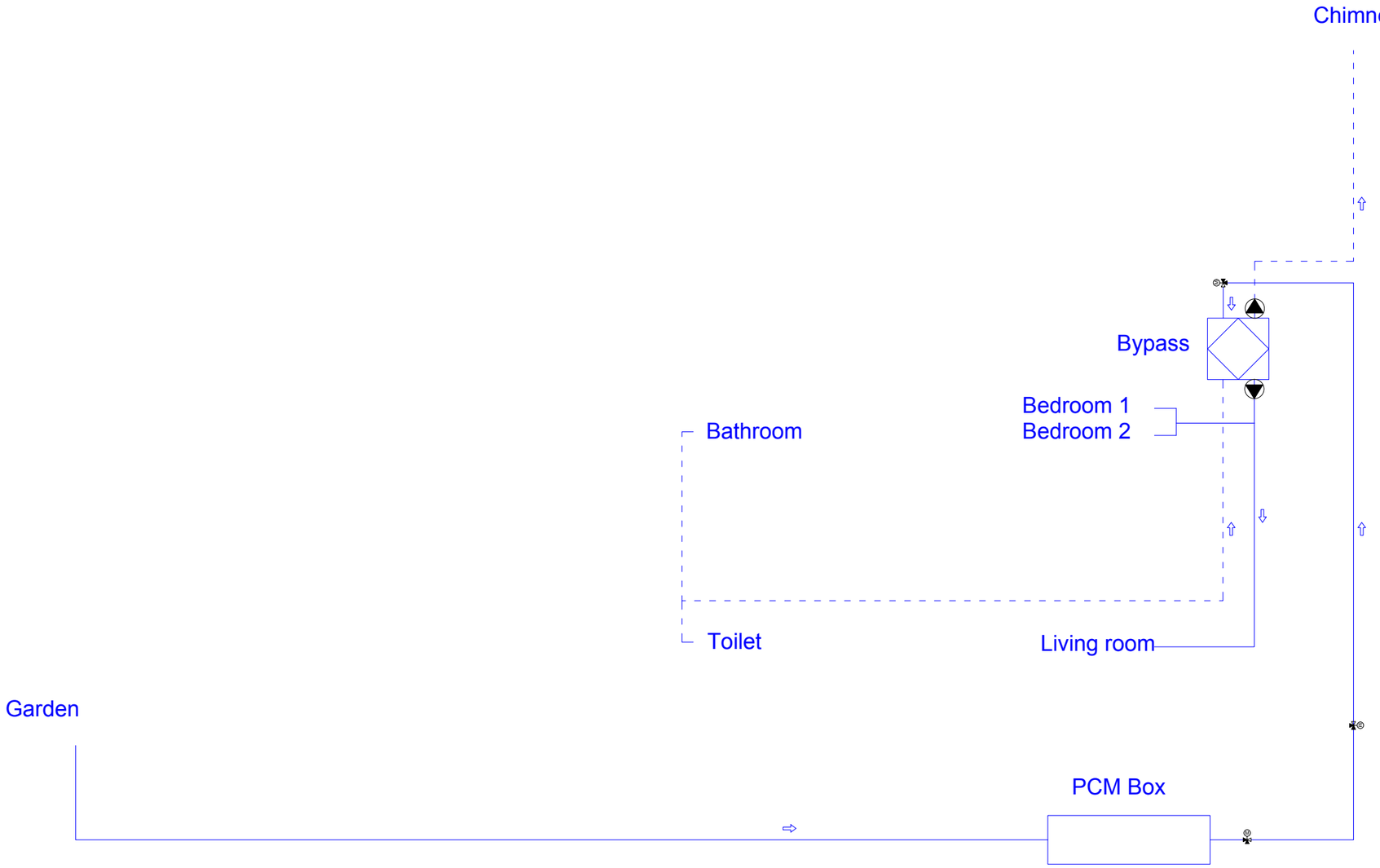
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HVAC SYSTEM SCHEMETIC DRAWINGS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	ME-201

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

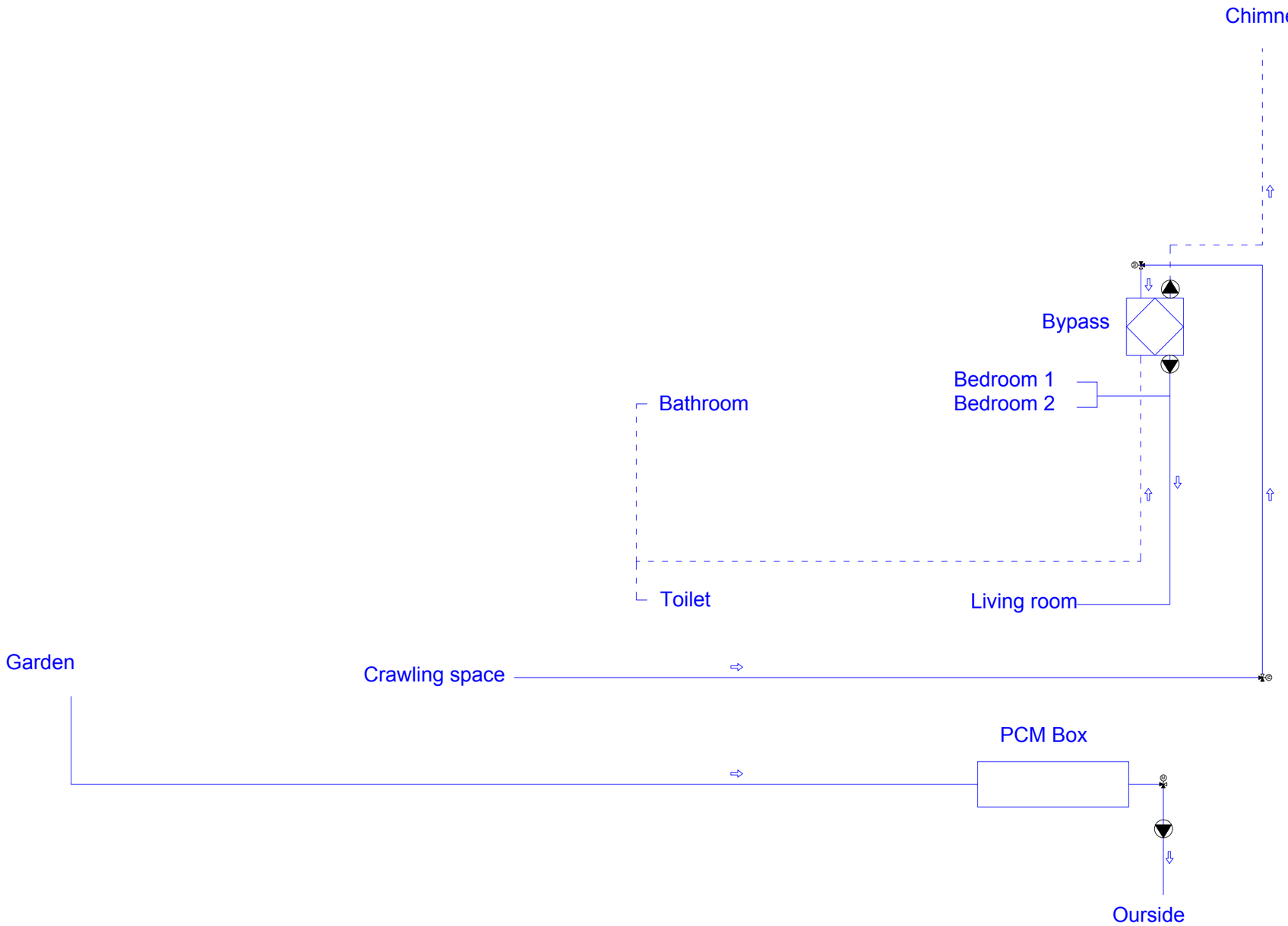
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HVAC SUMMER SCHEMETIC DRAWINGS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	ME-202

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

all measurements are in mm

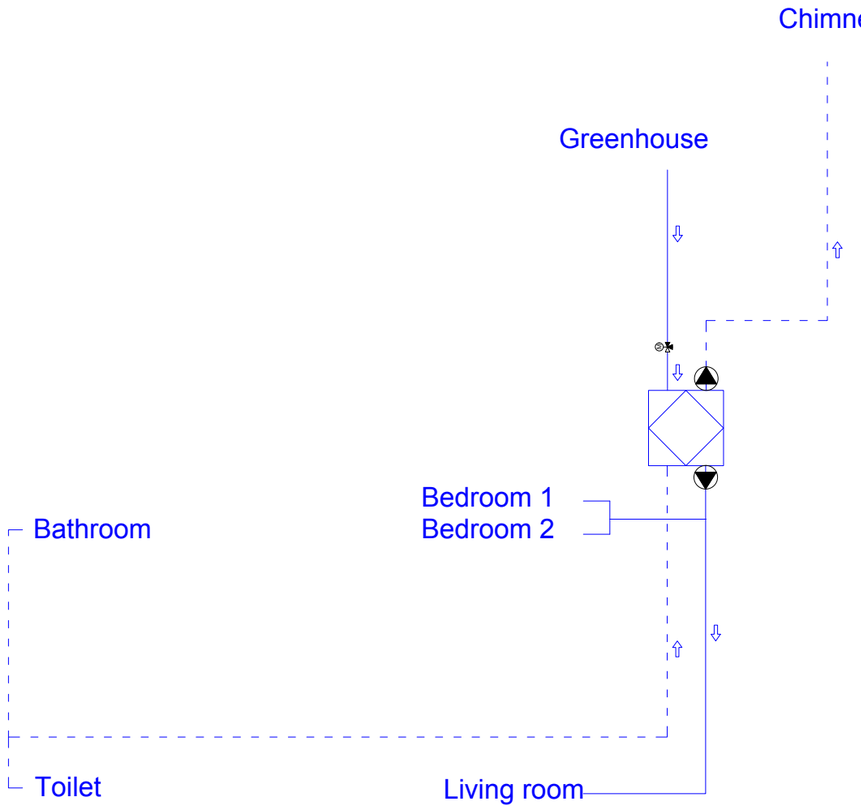
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HVAC SUMMER NIGHT SCHEMETIC DRAWINGS

Revisions

4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	ME-203

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

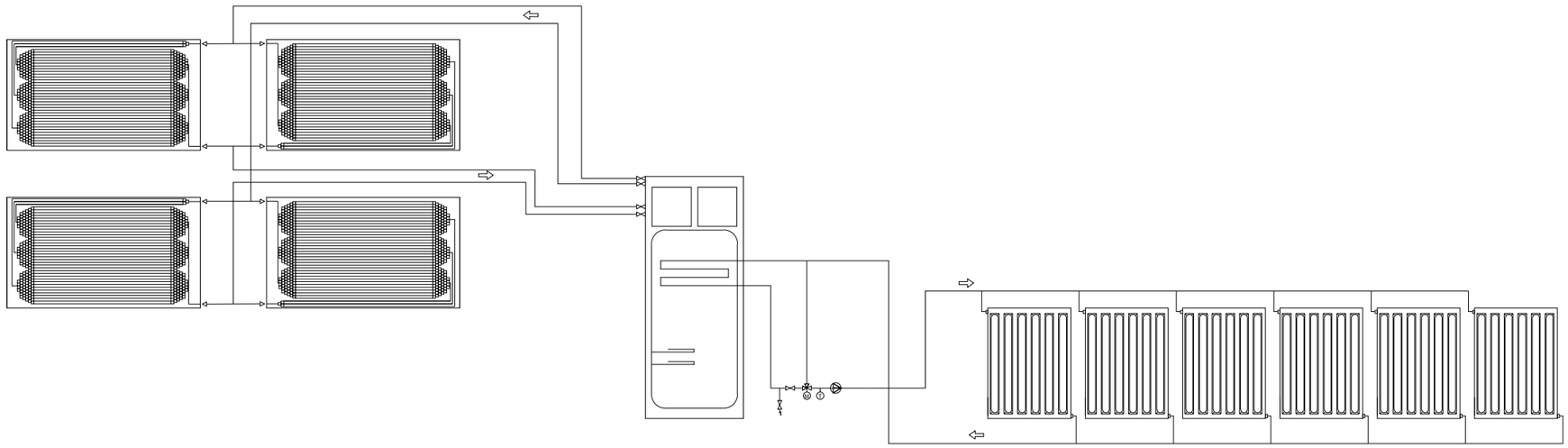
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HVAC WINTER SCHEMETIC DRAWINGS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	ME-204

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van
- direction airflow
- ventilation grill
- opening for airflow

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	HEATING MODE SCHEMETIC DRAWINGS

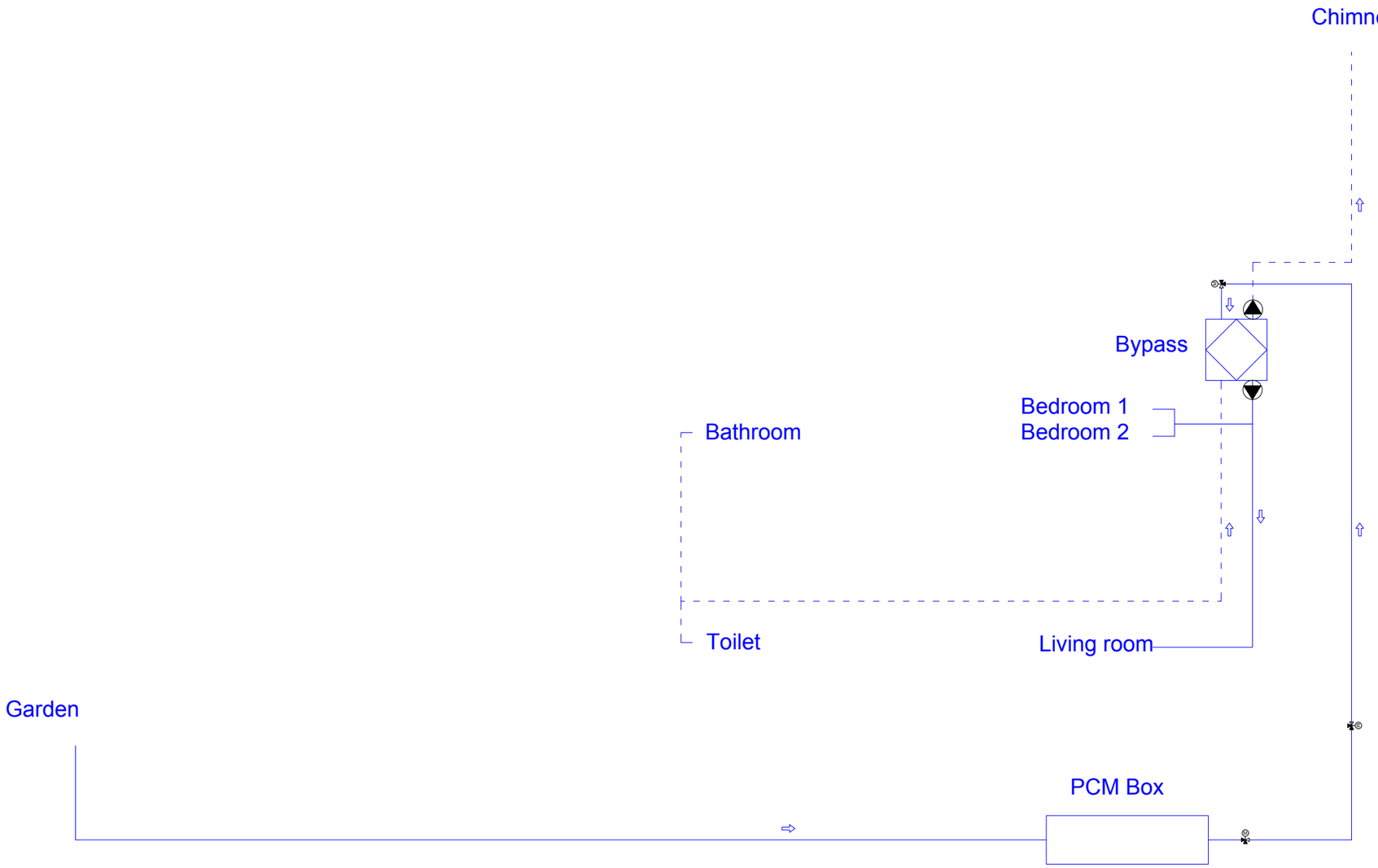
Revisions		
4	-- -- ----	-
3	-- -- ----	-
2	-- -- ----	-
1	03.03.2014	DEL #4

Paper Size: A3

Drawing Scale: n.v.t.

Drawing Code: **ME-211**

A3



---INFORMATION---

- ventilation suply
- ventilation return
- heating suply
- heating return
- radiator
- heat exchanger air-air
- recirculation box
- hot water tank
- PCM box
- motorized 3-port valve
- mechenical van / pump
- expansion reservoir
- overflow valve
- Drainage valve
- Shut-off valve
- Non-return valve
- direction flow
- ventilation grill
- opening for airflow

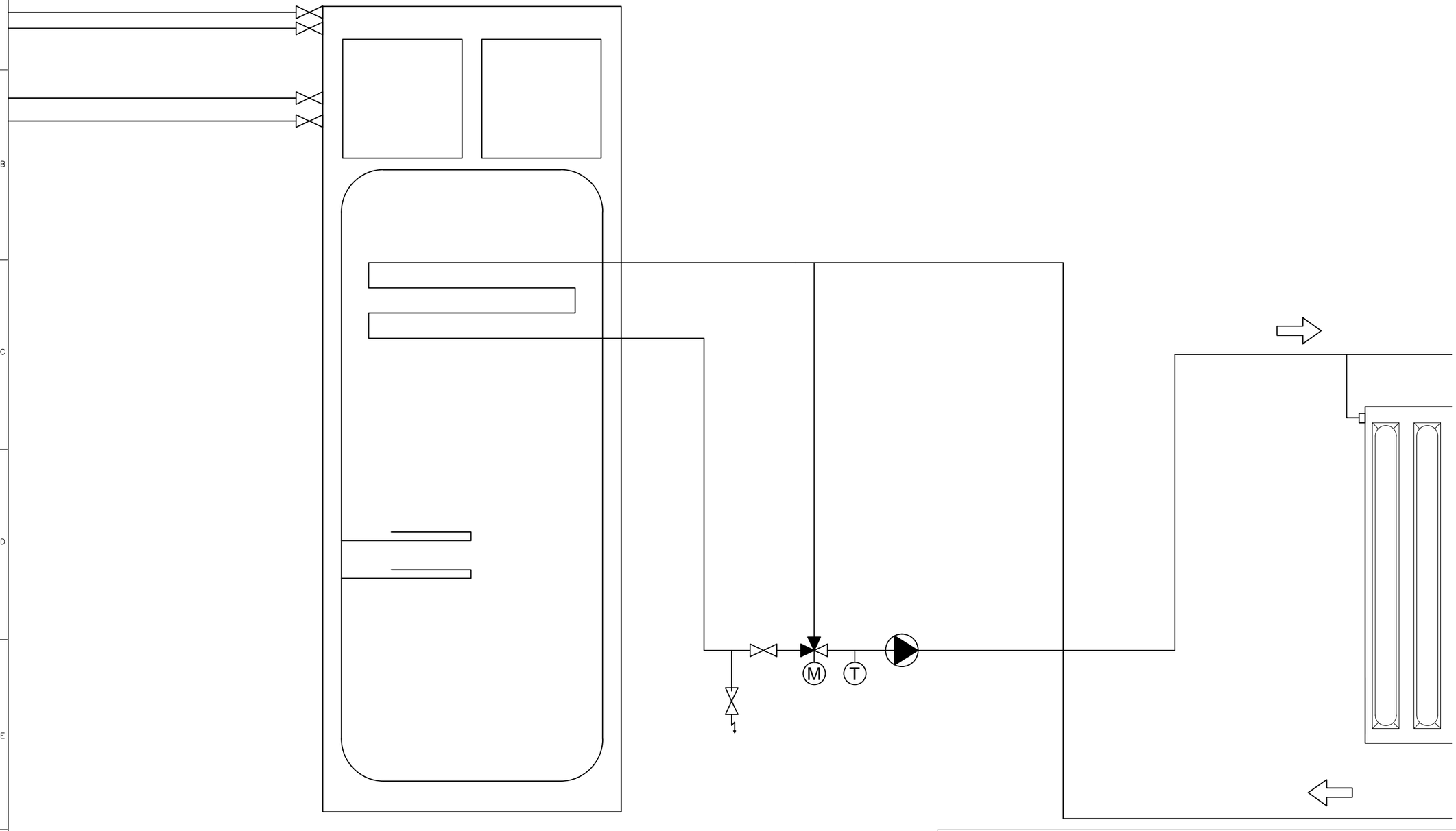
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	COOLING MODE SCHEMETIC DRAWINGS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	ME-221

A3



---INFORMATION---

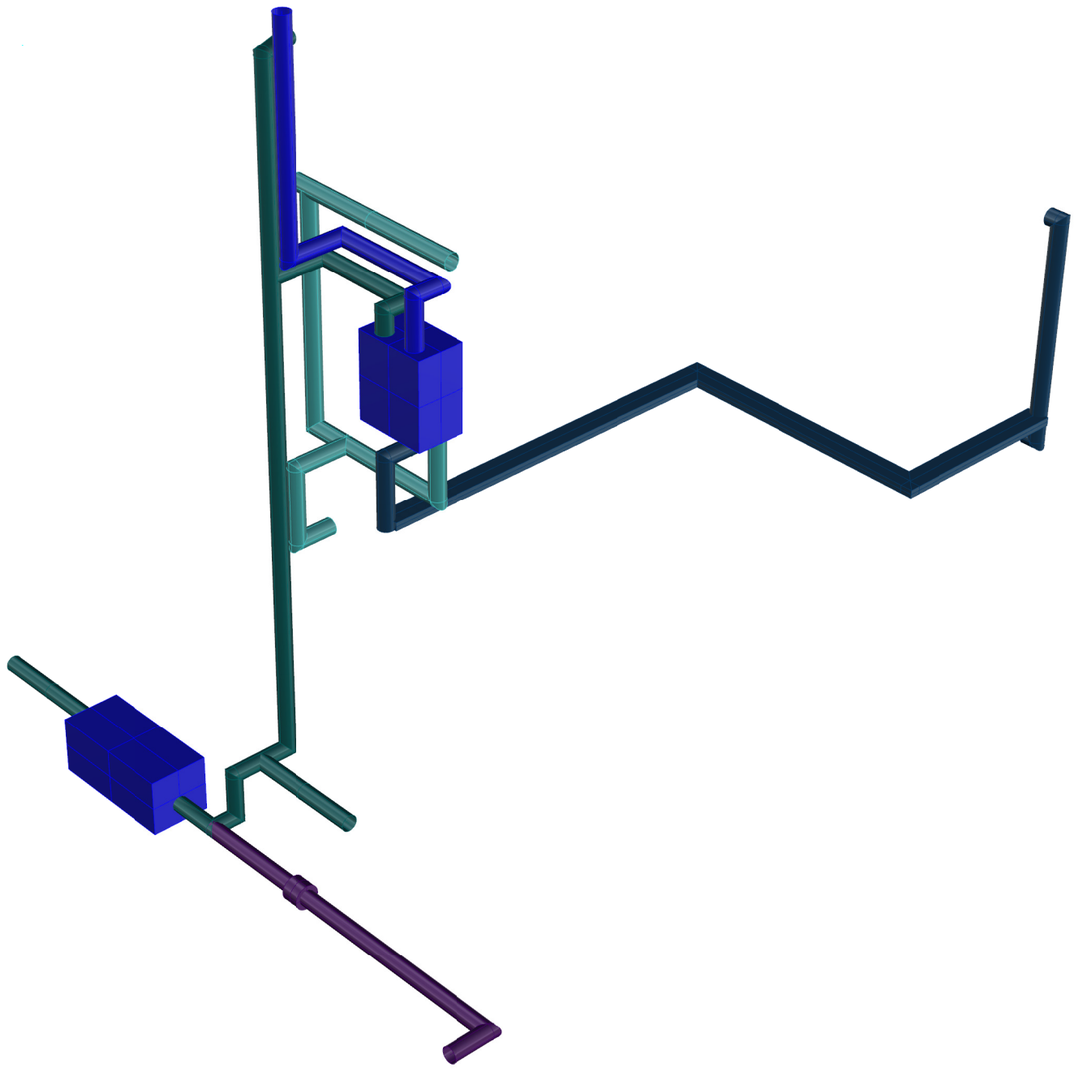
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	CONTROLS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	**ME-231**

A3



---INFORMATION---

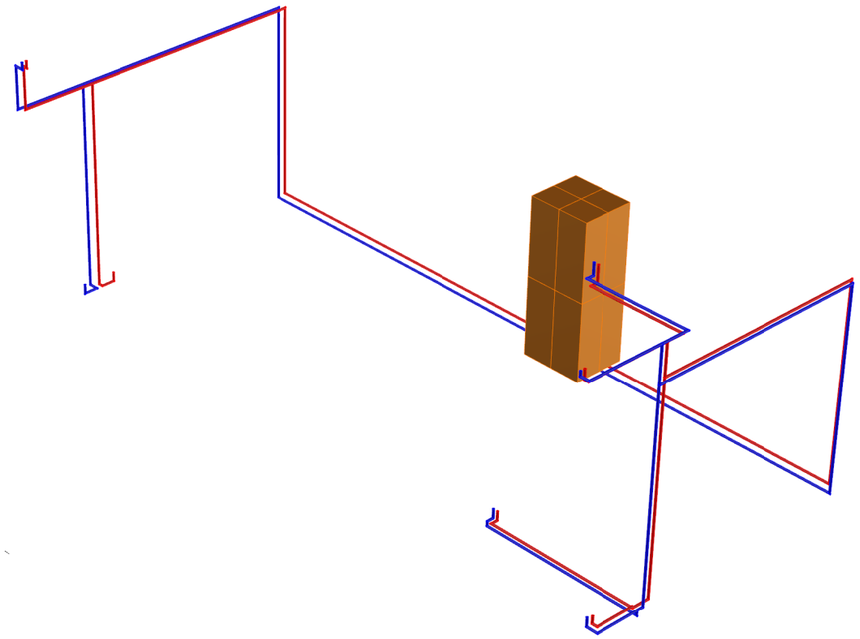
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	ISOMETRIC DISTRIBUTION VENTILATION AND COOLING

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	**ME-301**

A3



---INFORMATION---

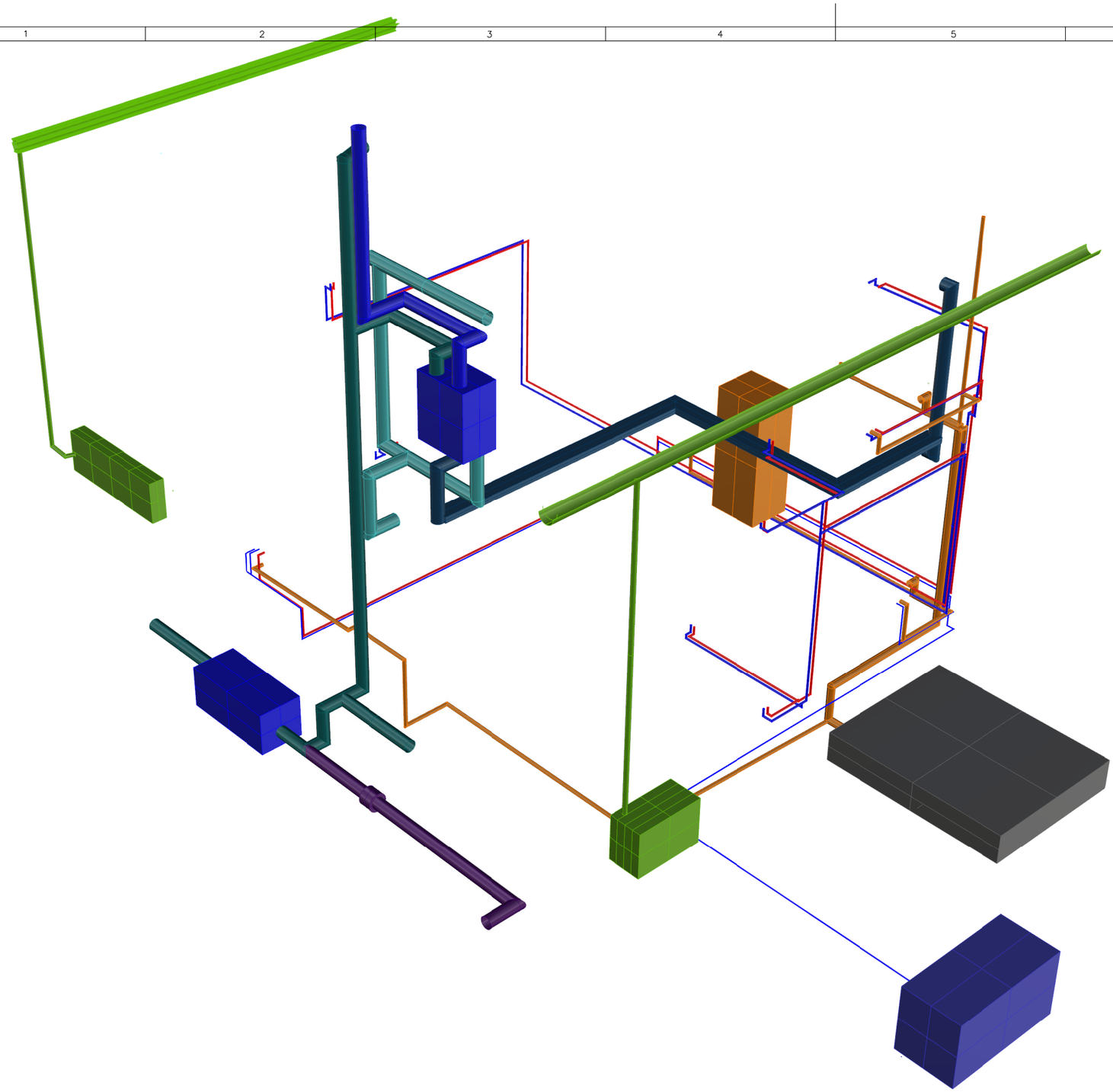
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	ISOMETRIC DISTRIBUTION HEATING

Revisions		
4	-- -- ----	-
3	-- -- ----	-
2	-- -- ----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	**ME-302**

A3



---INFORMATION---

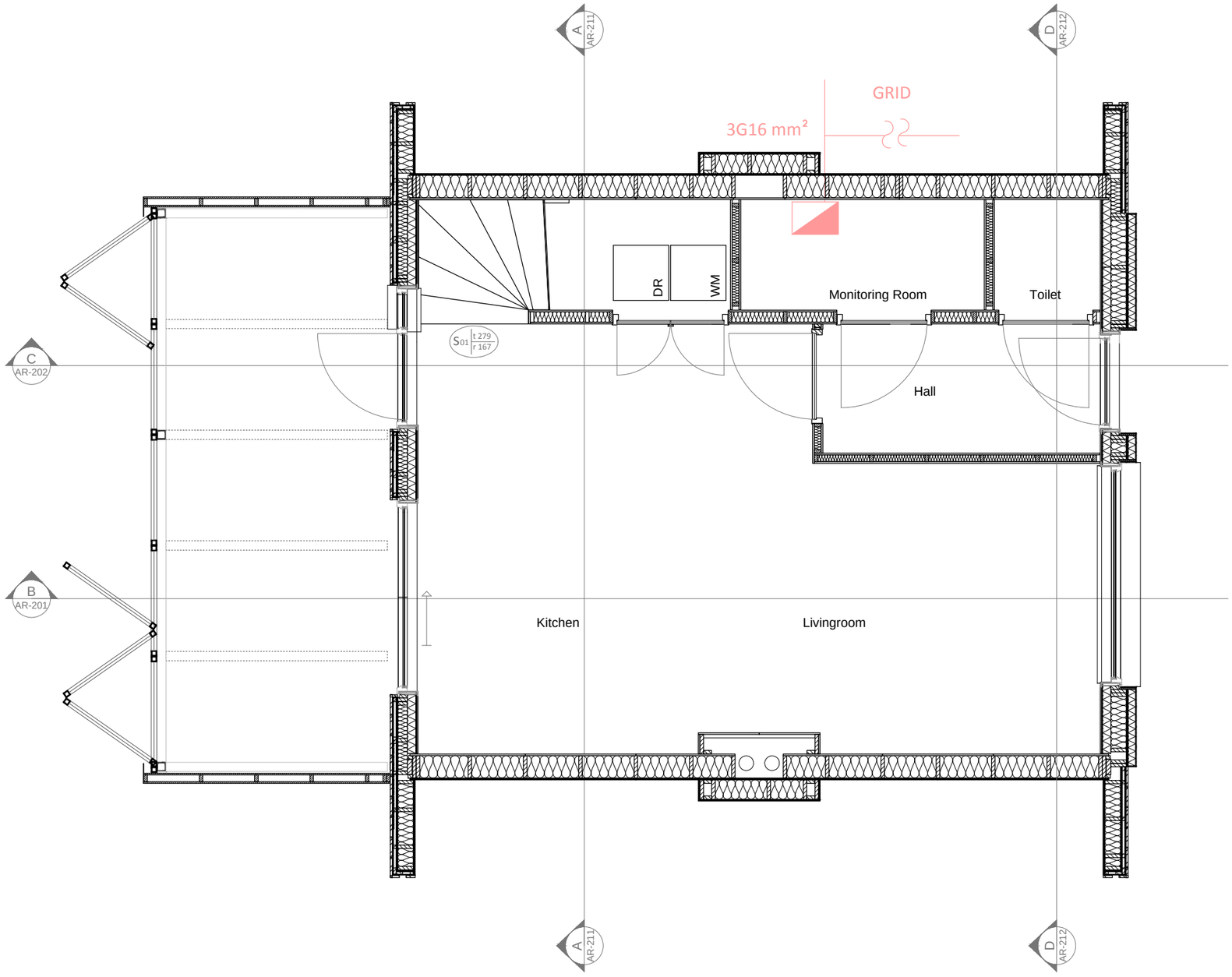
all measurements are in mm

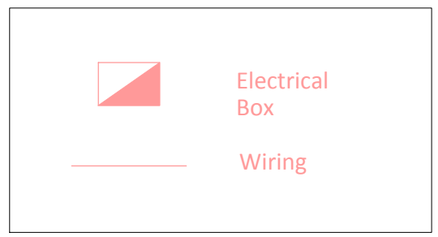
Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	MECHENICAL
Drawing Subject	ISOMETRIC DISTRIBUTION ALL INSTALLATIONS

Revisions		
4	--.--.----	-
3	--.--.----	-
2	--.--.----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	n.v.t.
Drawing Code	**ME-303**

A3





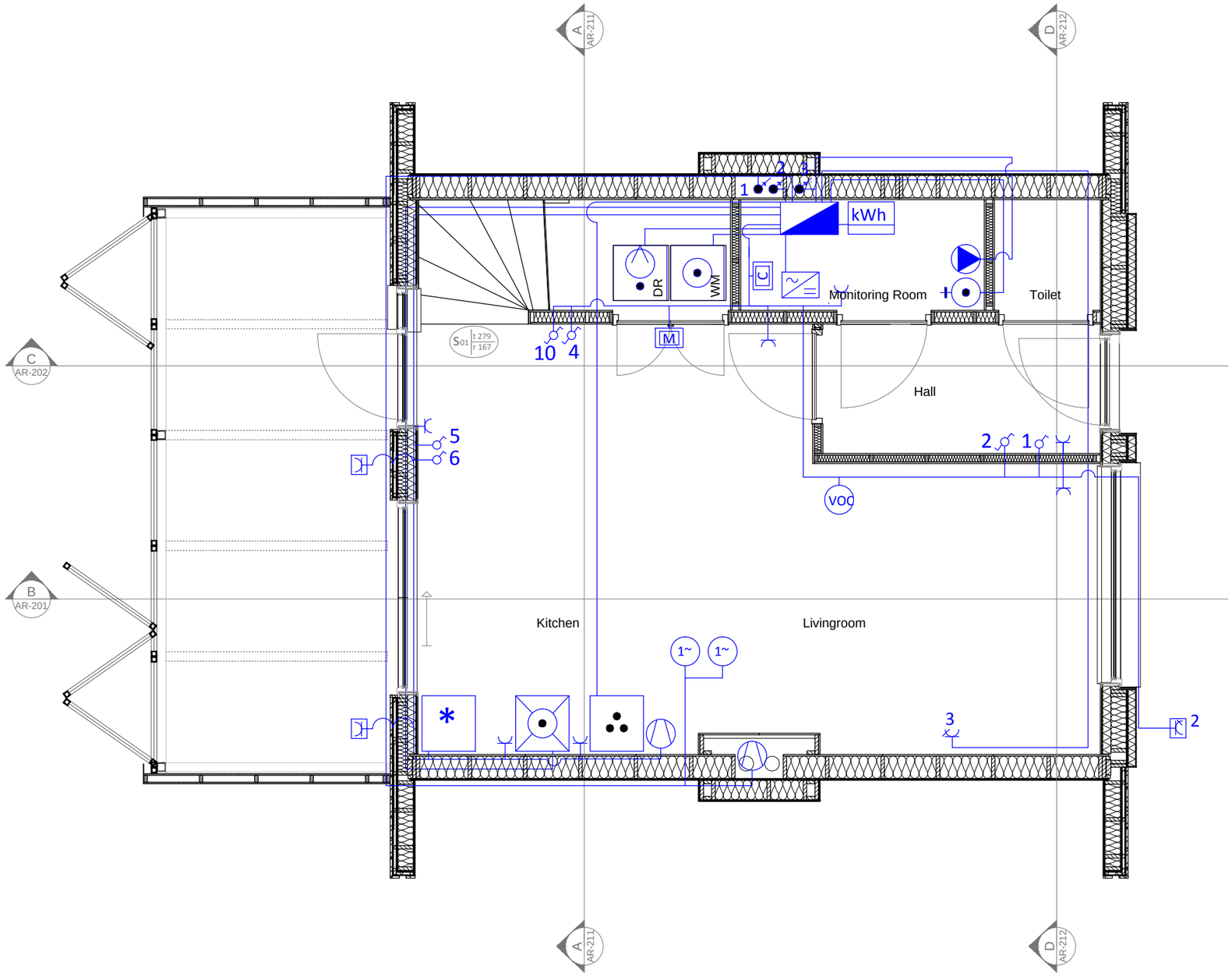
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	GRID INTERCONNECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size	A3
Drawing Scale	1:50
Drawing Code	EL-001

A3



- Electrical Box
- Wiring
- Internal Socket
- Double Internal Socket
- Triple Internal Socket
- External Socket
- Double external Socket
- Monitoring Box
- Oven with stoves on top (seperate lines for oven and stoves)
- Washing Machine
- Dryer
- Combined fridge and refrigerator
- Dishwasher
- Wire continuing from the bottom floor
- Wire continuing from the bottom floor and going to the upper floor
- Wire going to the upper floor
- Domotica Control Box
- Domotica LCD panel
- Inverter
- Electrical fan
- Single phase motor
- Electrical water pump
- Heat exchanger
- Boiler - Hot water production
- VOC sensor
- Single light switch for light with number X (check EL-401 and EL-402 drawings)
- Two way light switch for light with number X (check EL-401 and EL-402 drawings)

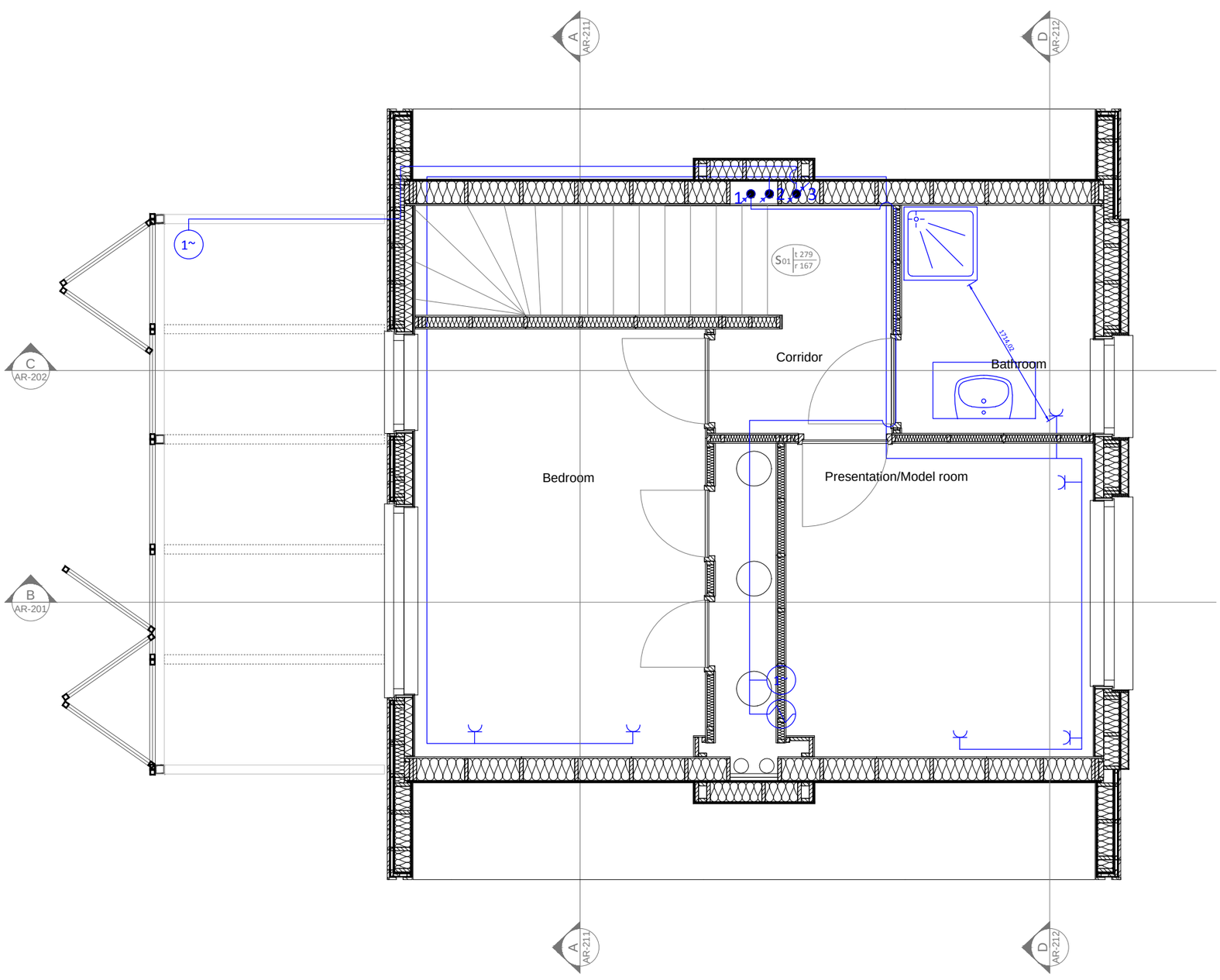
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	POWER PLAN - GROUND FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #7

Paper Size	A3
Drawing Scale	1:50
Drawing Code	EL-301

A3



- Electrical Box
- Wiring
- Internal Socket
- Double Internal Socket
- Triple Internal Socket
- External Socket
- Double external Socket
- Monitoring Box
- Oven with stoves on top (seperate lines for oven and stoves)
- Washing Machine
- Dryer
- Combined fridge and refrigerator
- Dishwasher
- Wire continuing from the bottom floor
- Wire continuing from the bottom floor and going to the upper floor
- Wire going to the upper floor
- Domotica Control Box
- Domotica LCD panel
- Inverter
- Electrical fan
- Single phase motor
- Electrical water pump
- Heat exchanger
- Boiler - Hot water production
- VOC sensor
- Single light switch for light with number X (check EL-401 and EL-402 drawings)
- Two way light switch for light with number X (check EL-401 and EL-402 drawings)

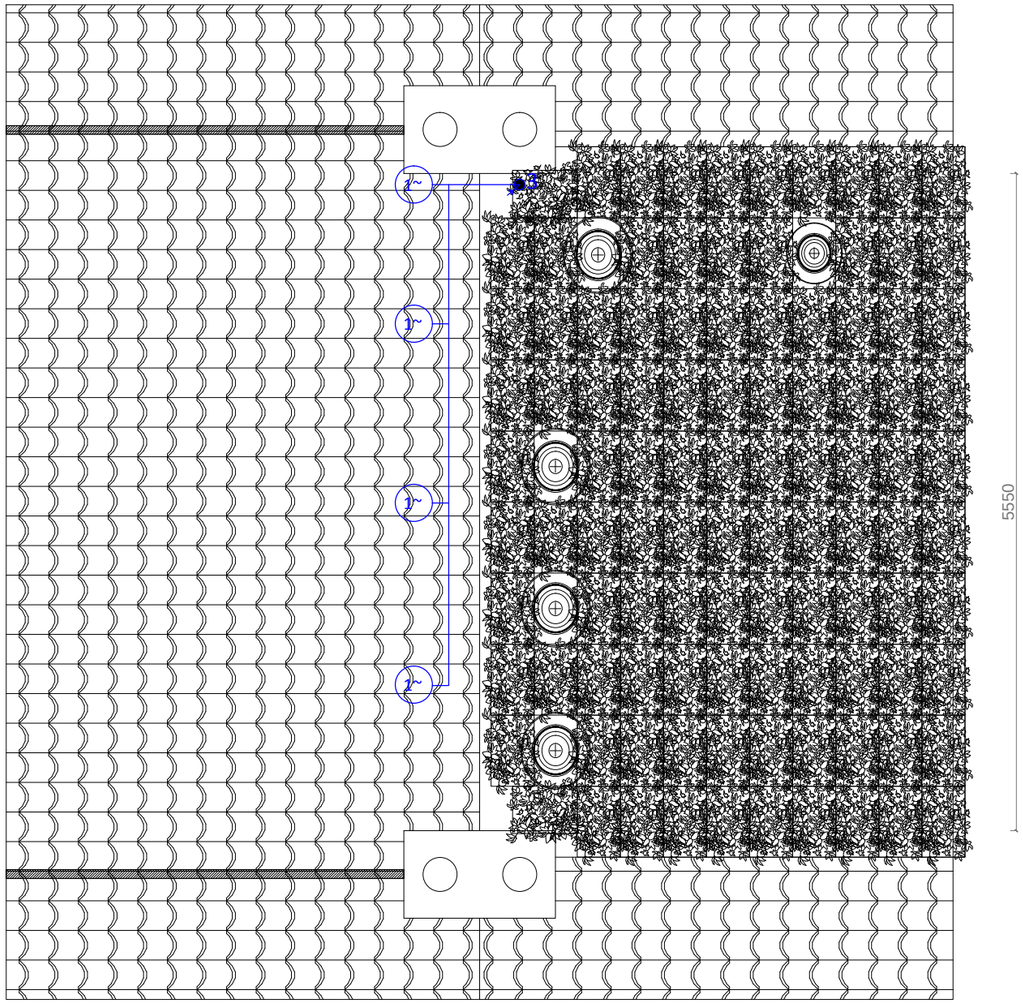
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	POWER PLAN - FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size	A3
Drawing Scale	1:50
Drawing Code	EL-302

A3



Electrical Box

Wiring

Internal Socket

Double Internal Socket

Triple Internal Socket

External Socket

Double external Socket

Monitoring Box

Oven with stoves on top (seperate lines for oven and stoves)

Washing Machine

Dryer

Combined fridge and refrigerator

Dishwasher

Wire continuing from the bottom floor

Wire continuing from the bottom floor and going to the upper floor

Wire going to the upper floor

Domotica Control Box

Domotica LCD panel

Inverter

Electrical fan

Single phase motor

Electrical water pump

Heat exchanger

Boiler - Hot water production

VOC sensor

Single light switch for light with number X (check EL-401 and EL-402 drawings)

Two way light switch for light with number X (check EL-401 and EL-402 drawings)

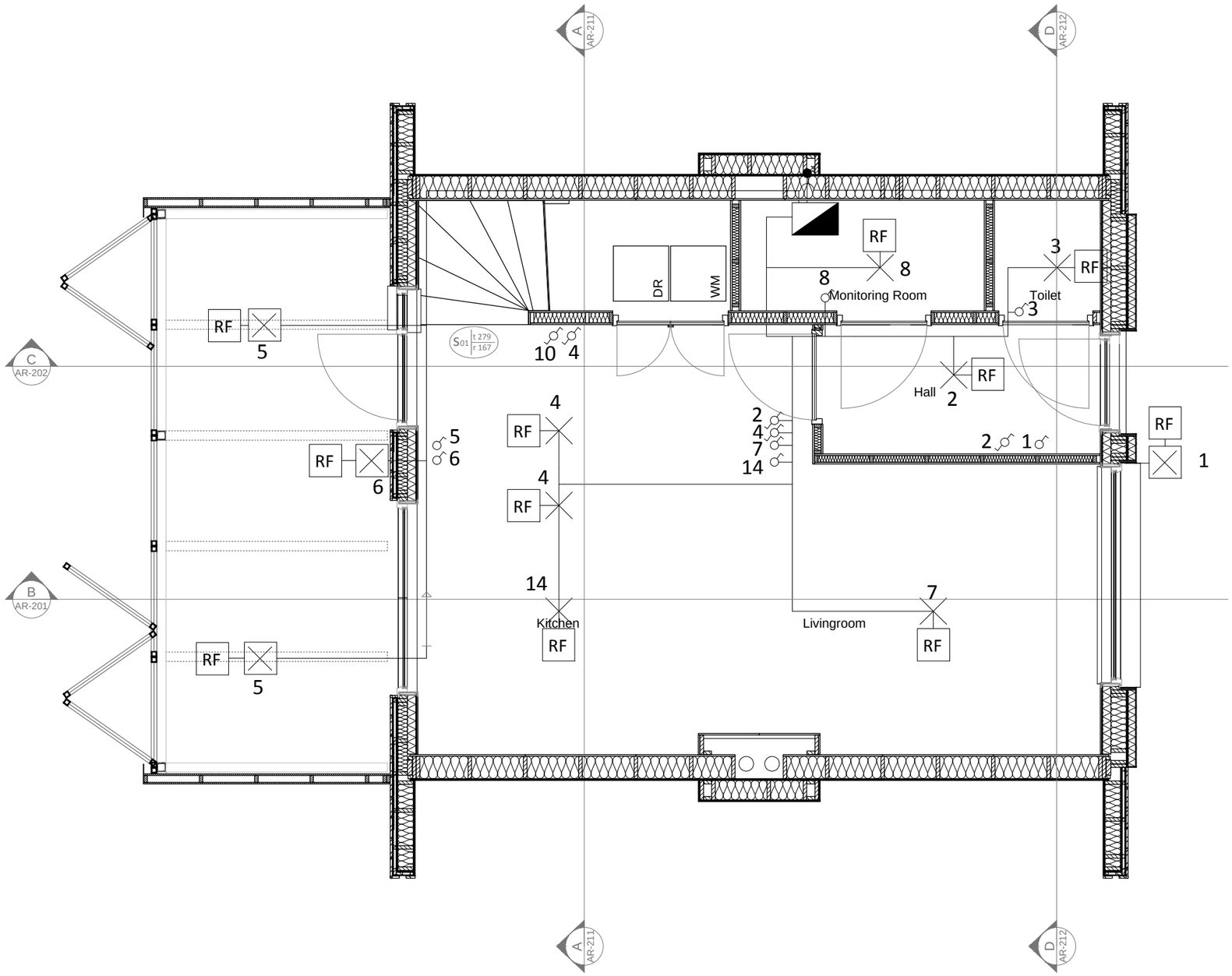
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	[redacted]
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	POWER PLAN - ROOF

Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size	A3
Drawing Scale	1:50
Drawing Code	EL-303

A3



- Electrical Box
- Wiring
- Single light switch
- Two way light switch
- Internal light spot
- Wire going to the upper floor
- Wire continuing from the bottom floor
- RF — RF receiver
- External light spot
- CO2 — CO2 sensor

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ELECTRICAL DRAWINGS	
Drawing Subject: LIGHTING PLAN GROUND FLOOR	

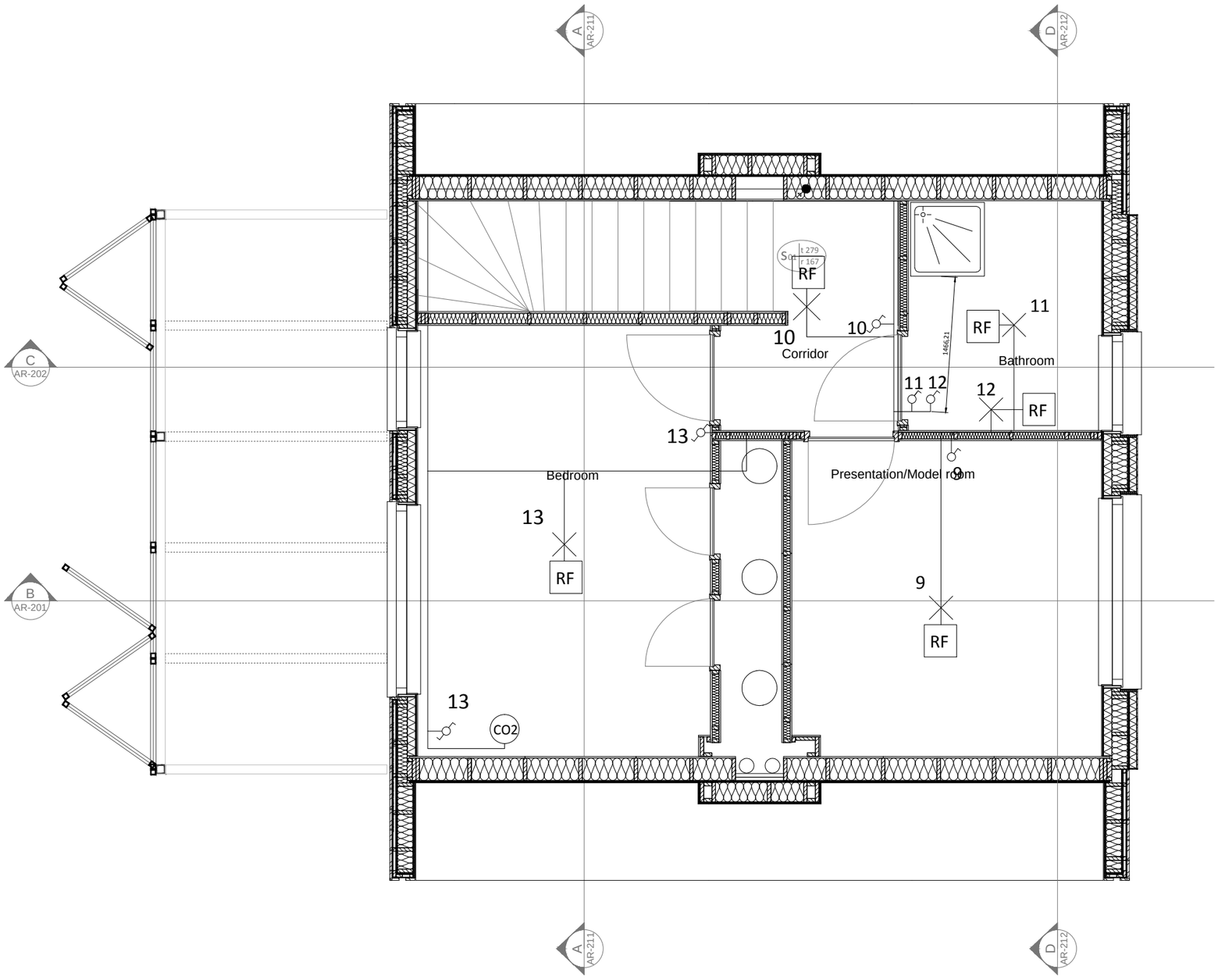
Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **EL-401**

A3



- Electrical Box
- Wiring
- Single light switch
- Two way light switch
- Internal light spot
- Wire going to the upper floor
- Wire continuing from the bottom floor
- RF receiver
- External light spot
- CO2 sensor

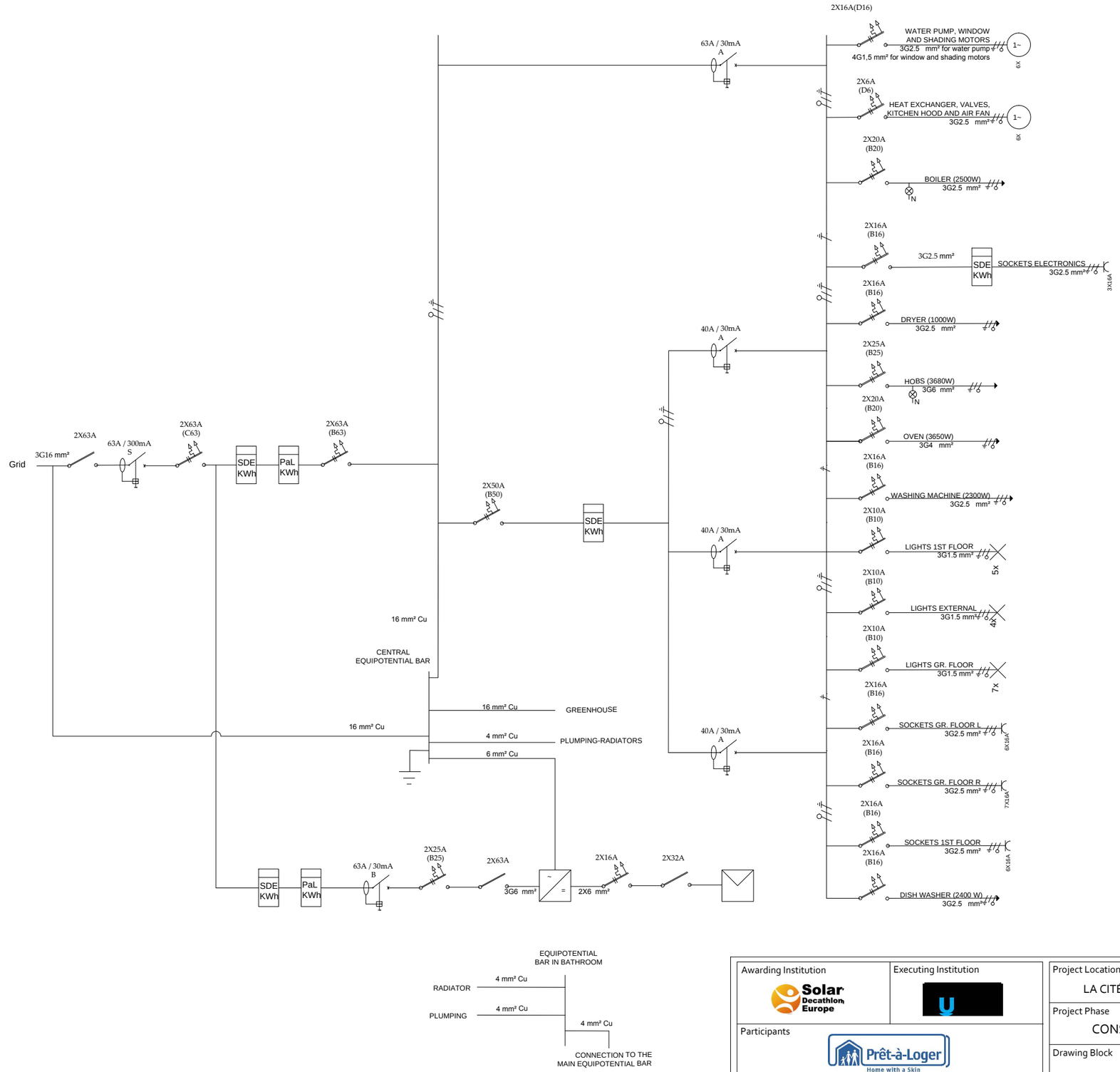
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger, Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	LIGHTING PLAN FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size	A3
Drawing Scale	1:50
Drawing Code	EL-402

A3



---LEGEND---

- Isolator
- Circuit Breaker with magnetothermic protection
- SDE KWh — Meter installed by the Solar Decathlon Organization
- PaL KWh — Meter installed by Pret-a-Loger
- Socket
- Light
- 1~ — 1-phase ac motor
- Residual Current Device
- Inverter
- PV Modules

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	[redacted]
Participants	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	SINGLE LINE DRAWING

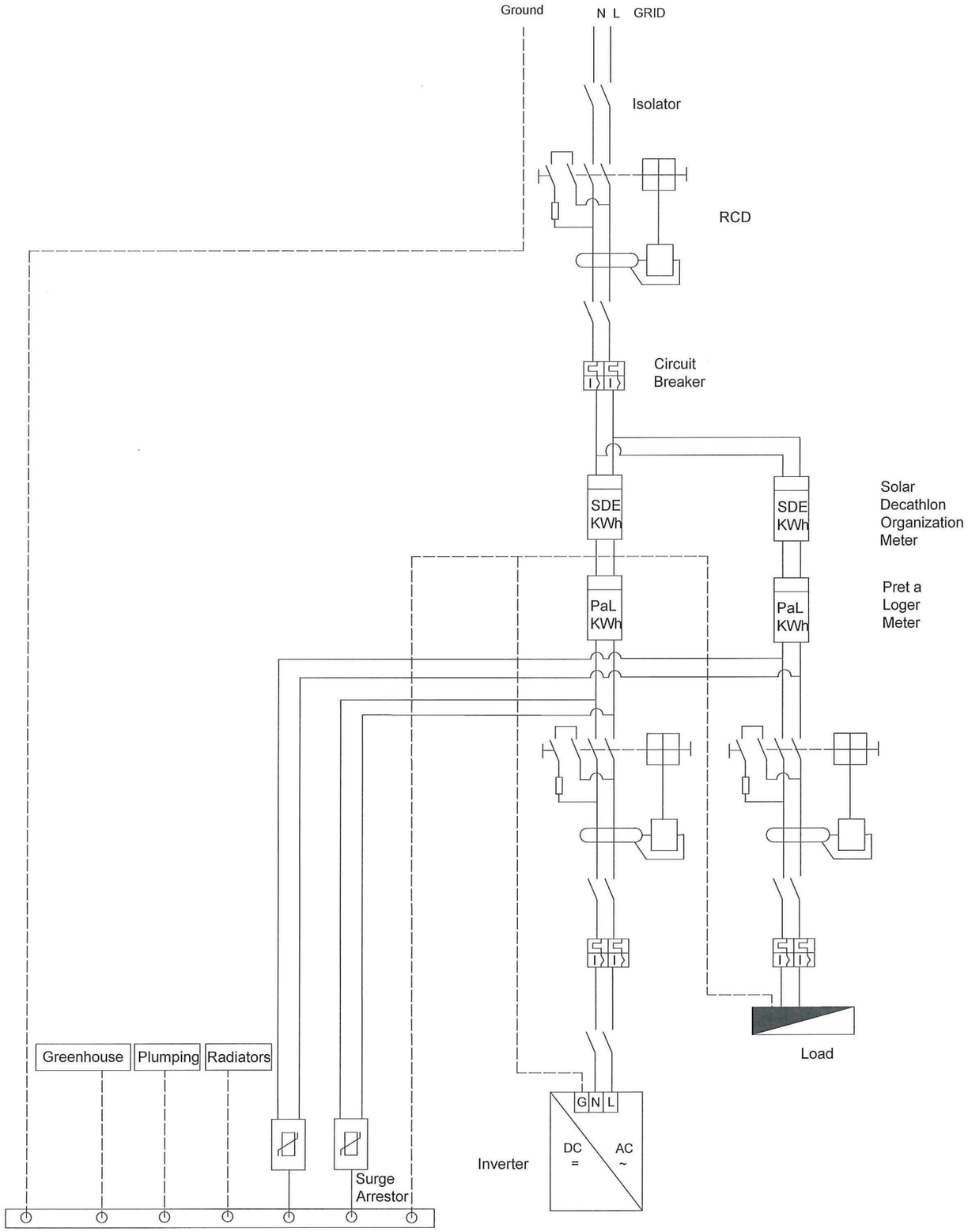
Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.05.2014	DEL #6

Paper Size: A3

Drawing Scale: n/a

Drawing Code: **EL-501**

A3



Groothuis wonen

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

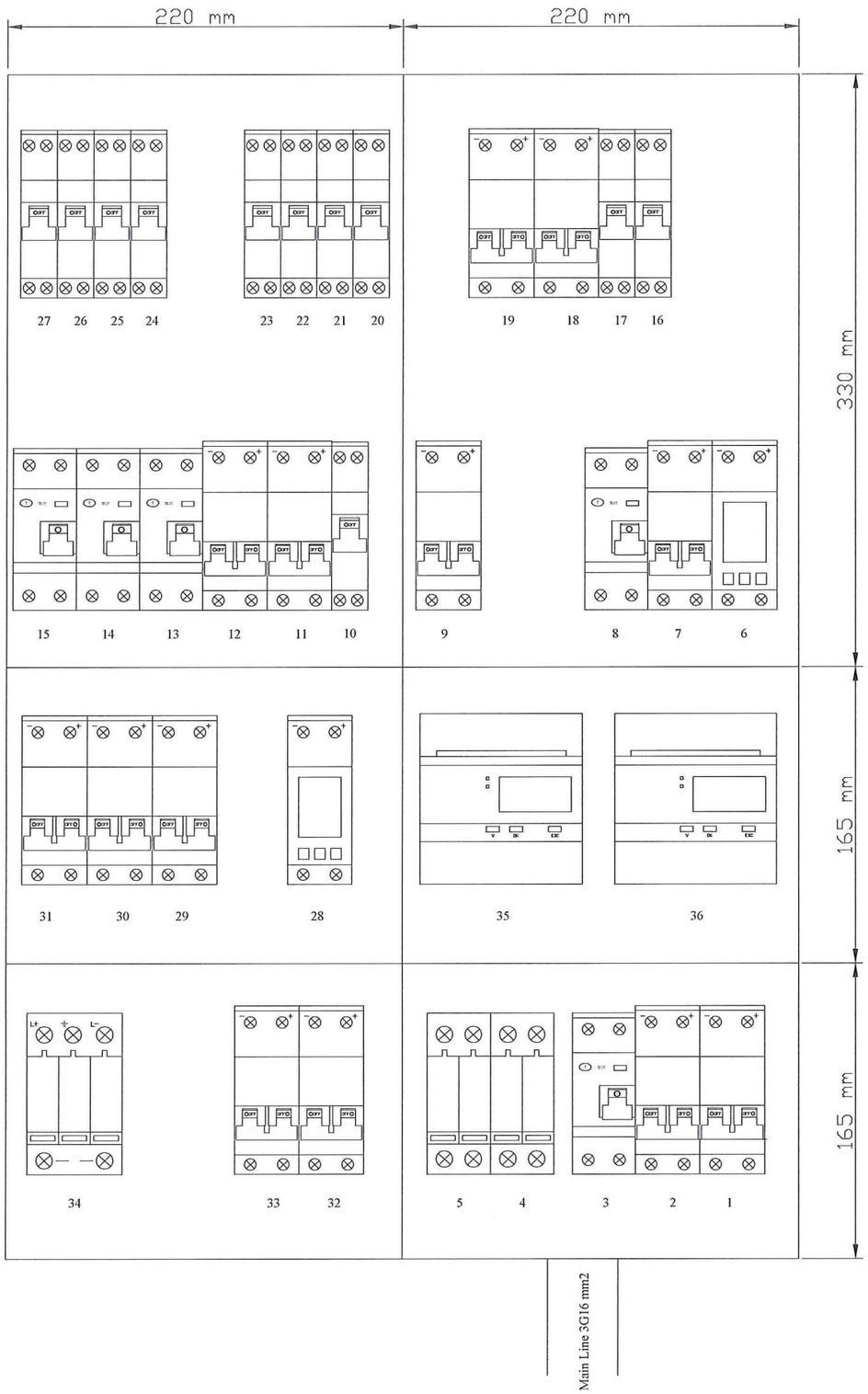
Project Location: LA CITÈ DU SOLIEL®, VERSAILLES, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: ELECTRICAL DRAWINGS	
Drawing Subject: AC CIRCUIT LAYOUT	

Revisions		
4	--.--.----	-
3	--.--.----	-
2	28.05.2014	First Revision
1	30.04.2014	Initial Version

Paper Size	A3
Drawing Scale	n/a
Drawing Code	EL-601

A3

Electrical Box
Size (HxW):660(mm)x440(mm)



1	Main switch
2	Residual Current Device 63A/ 300mA Selective type A
3	Circuit breaker with magnetothermic protection 2x63A C- characteristic, group 1
4	Surge arrestor house
5	Surge arrestor PV AC
6	kWh-meter for monitoring TU Delft
7	Residual Current Device 63A/ 30mA type A
8	Circuit breaker with magnetothermic protection 2x63A B- characteristic, group 2
9	Circuit breaker with magnetothermic protection 2x50A B- characteristic, group 3
10	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 4 boiler
11	Circuit breaker with magnetothermic protection 2x64 D- characteristic, group 5 heat exchanger and air fan
12	Circuit breaker with magnetothermic protection 2x16A D- characteristic, group 6 water pums, kitchen hood and motors
13	Residual Current Device 40A/ 30mA type A
14	Residual Current Device 40A/ 30mA type A
15	Residual Current Device 40A/ 30mA type A
16	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 7 sockets ground floor
17	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 8 sockets first fluor
18	Circuit breaker with magnetothermic protection 2x25A B- characteristic, group 16 hobs
19	Circuit breaker with magnetothermic protection 2x20A B- characteristic, group 9 oven
20	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 10 dryer
21	Circuit breaker with magnetothermic protection 2x10A B- characteristic, group 12 lights external
22	Circuit breaker with magnetothermic protection 2x10A B- characteristic, group 13 lights ground floor
23	Circuit breaker with magnetothermic protection 2x10A B- characteristic, group 14 lights first floor
24	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 15 washing machine
25	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 11 dish washer
26	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 15 washing machine
27	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 11 dish washer
28	kWh-meter for monitoring TU Delft
29	Residual Current Device 63A/ 300mA type B
30	Circuit breaker with magnetothermic protection 2x25A B- characteristic, group 19 PV system AC side
31	PV AC isolator
32	PV DC isolator
33	Circuit breaker with magnetothermic protection 2x16A B- characteristic, group 20 PV system DC side
34	Surge arrestor PV DC
35	kWh-meter for monitoring SDE
36	kWh-meter for monitoring SDE

Groothuis wonen

all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÈ DU SOLIEL®, VERSAILLES, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	ELECTRICAL DRAWINGS
Drawing Subject	ELECTRICAL BOX LAYOUT

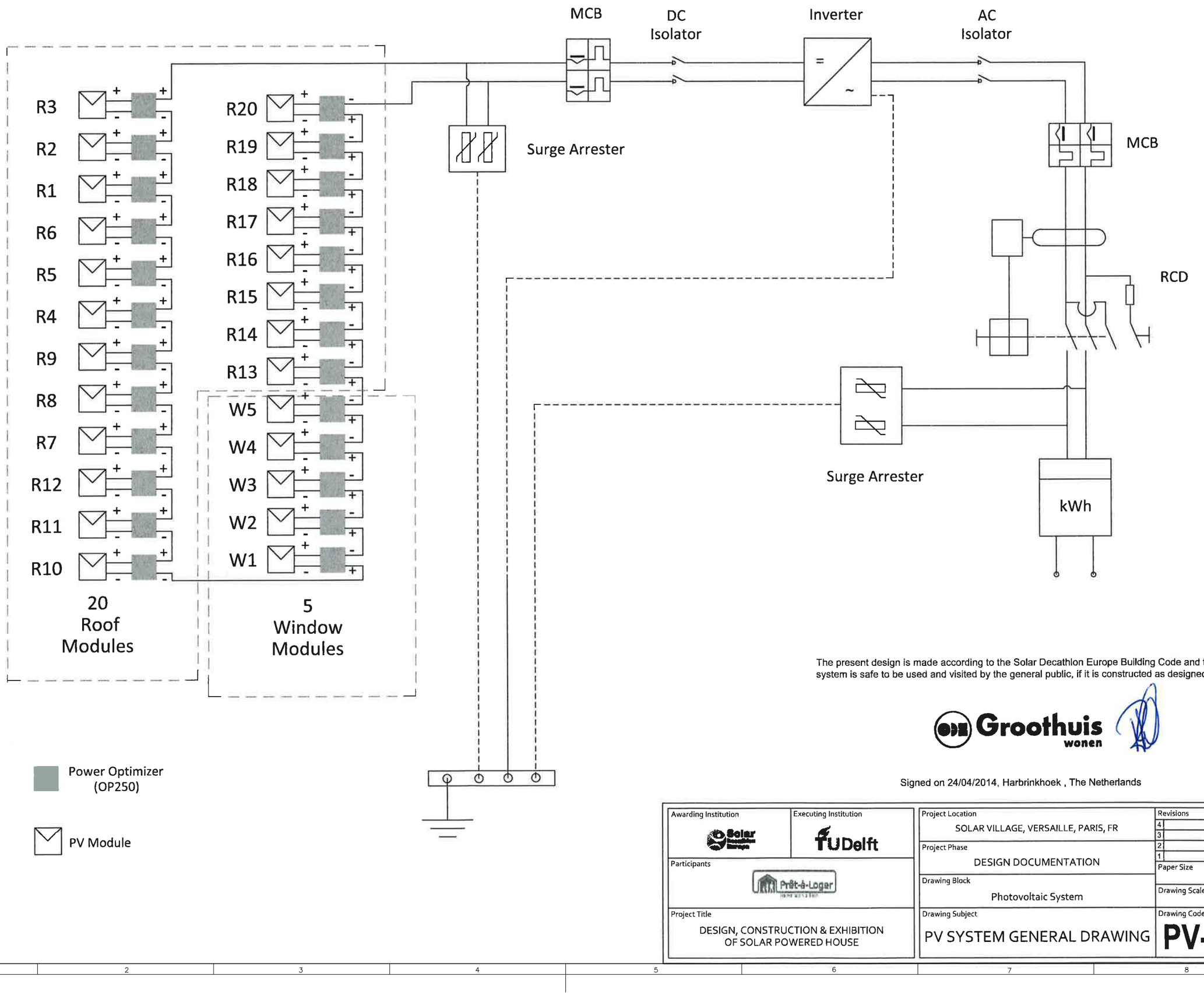
Revisions		
4	--.--.----	--
3	--.--.----	--
2	28.05.2014	First Revision
1	30.04.2014	Initial Version

Paper Size: A3

Drawing Scale: 1 : 2.5

Drawing Code: EL-602

A3



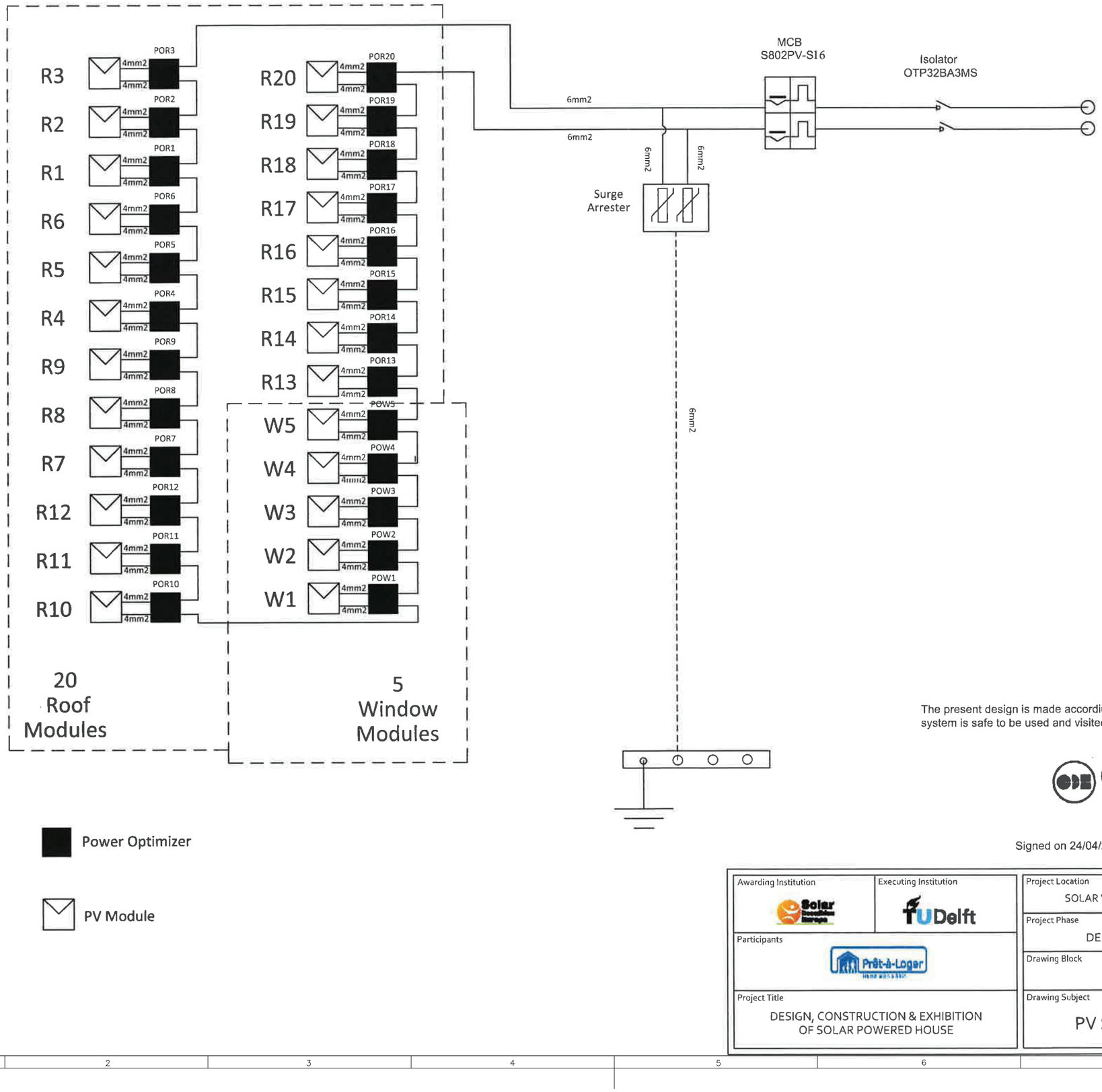
The present design is made according to the Solar Decathlon Europe Building Code and the PV system is safe to be used and visited by the general public, if it is constructed as designed.

Groothuis wonen

Signed on 24/04/2014, Harbrinkhoek , The Netherlands

Awarding Institution: Solar Decathlon Europe	Executing Institution: fU Delft	Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1
Participants: Prêt-à-Loger		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: Photovoltaic System	Drawing Scale:
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: PV SYSTEM GENERAL DRAWING	Drawing Code: PV-001

A3



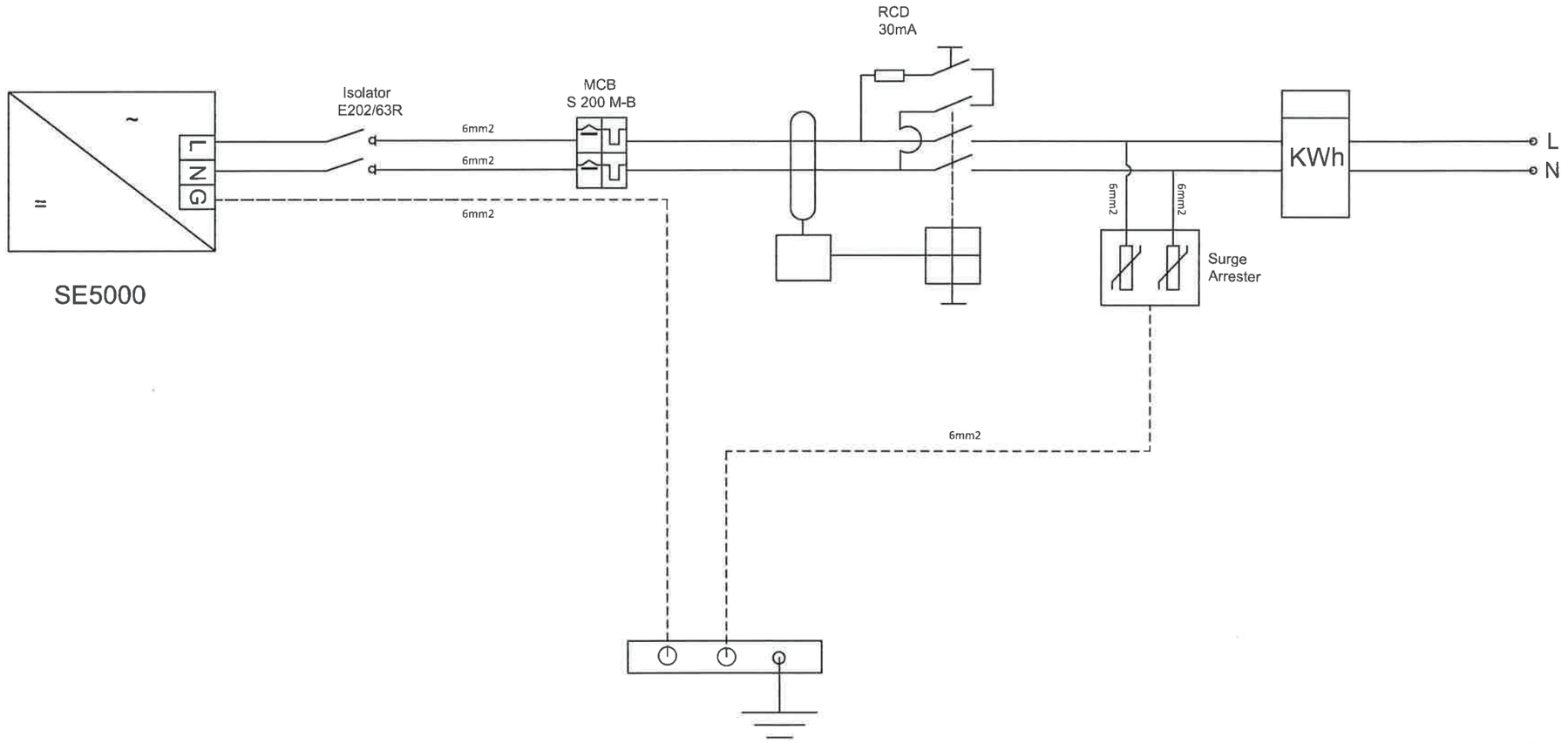
The present design is made according to the Solar Decathlon Europe Building Code and the PV system is safe to be used and visited by the general public, if it is constructed as designed.

Groothuis wonen

Signed on 24/04/2014, Harbrinkhoek , The Netherlands

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 01.07.2013 initial version
Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
Drawing Block: Photovoltaic System	Drawing Scale:
Drawing Subject: PV SYSTEM DC PART	Drawing Code: PV-011

A3



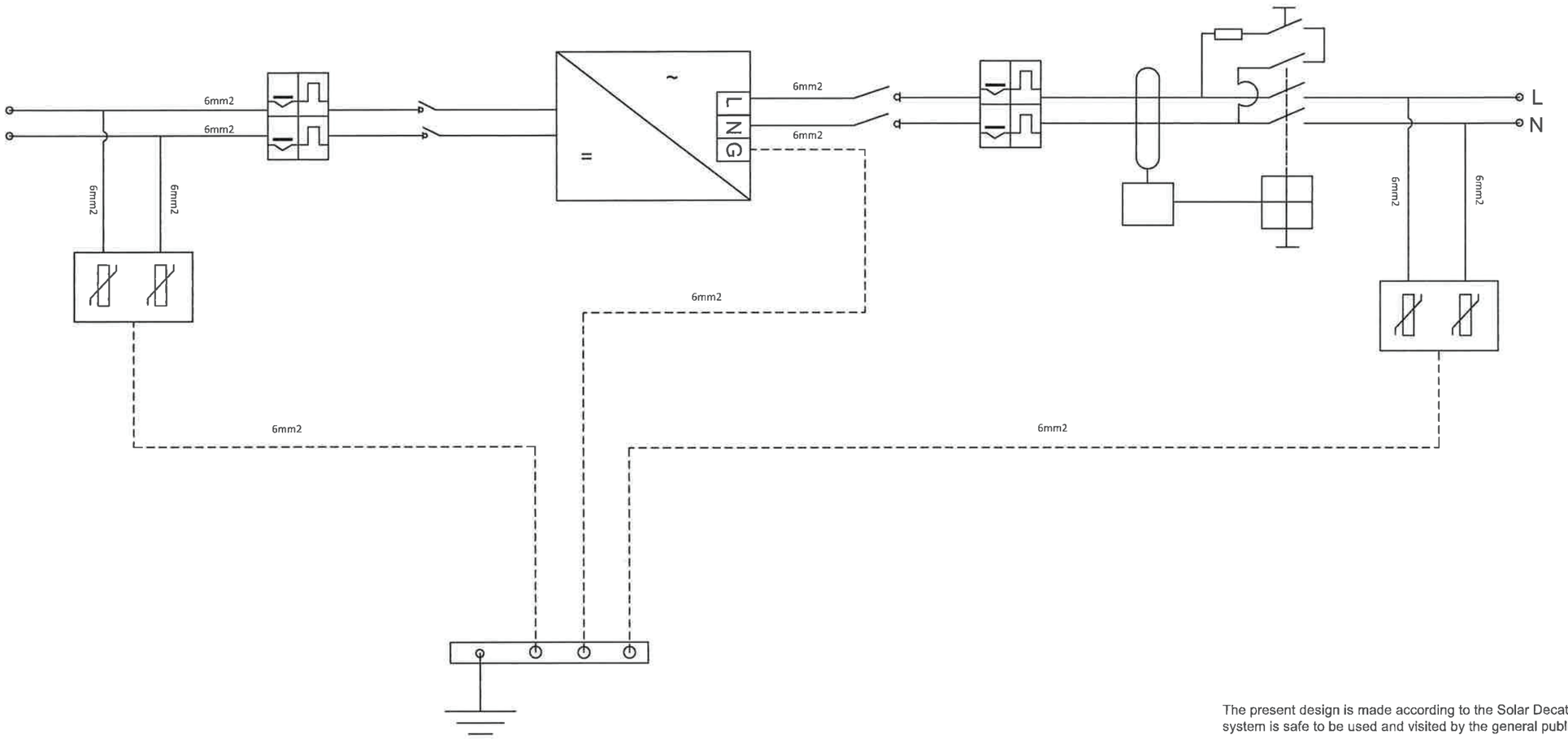
The present design is made according to the Solar Decathlon Europe Building Code and the PV system is safe to be used and visited by the general public, if it is constructed as designed.

Groothuis wonen

Signed on 24/04/2014, Harbrinkhoek, The Netherlands

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1
Participants: Prêt-à-Loger		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: Photovoltaic System	Drawing Scale:
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: PV SYSTEM AC PART	Drawing Code: PV-021

A3



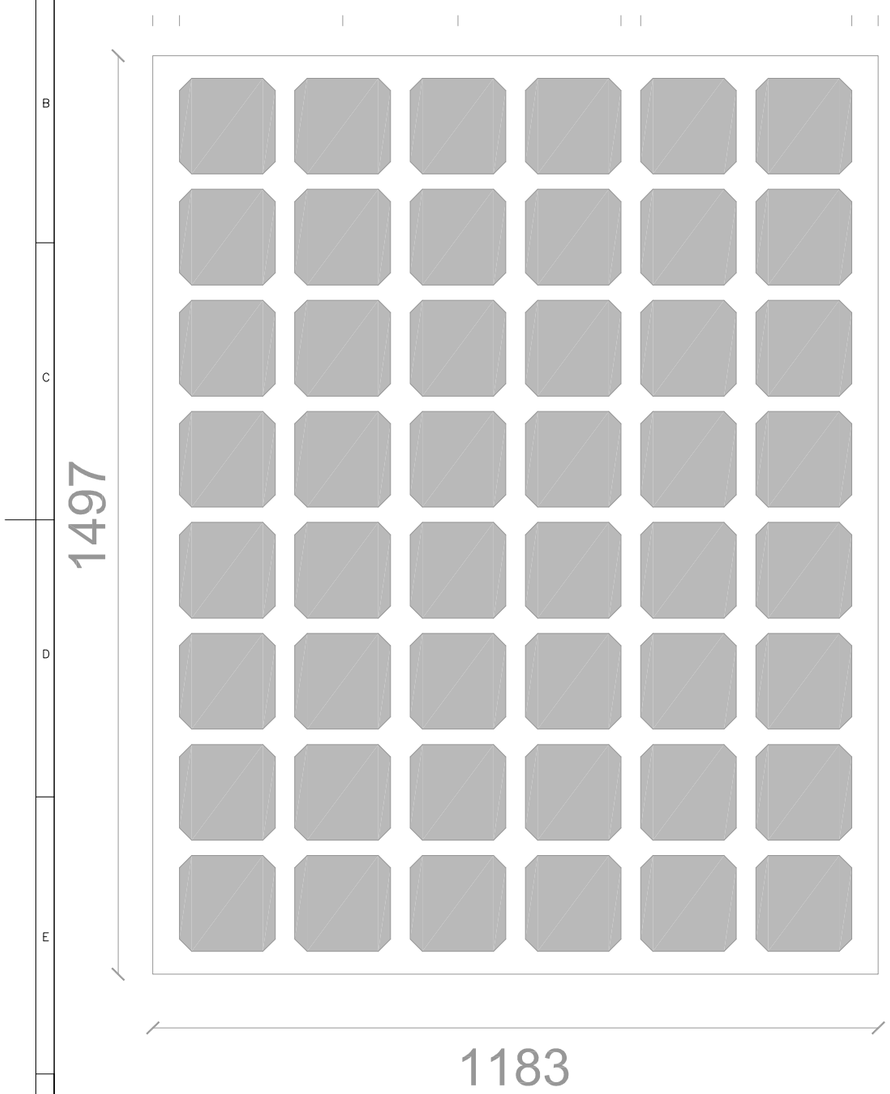
The present design is made according to the Solar Decathlon Europe Building Code and the PV system is safe to be used and visited by the general public, if it is constructed as designed.

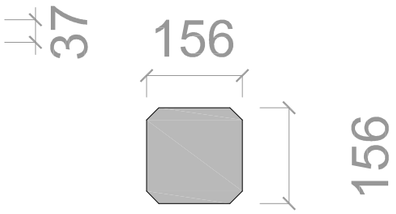
Groothuis wonen

Signed on 24/04/2014, Harbrinkhoek , The Netherlands

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1
Participants: Prêt-à-Loger		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: Photovoltaic System	Drawing Scale:
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: PV SYSTEM GROUNDING	Drawing Code: PV-031

A3





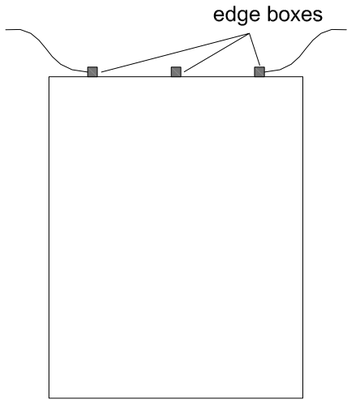
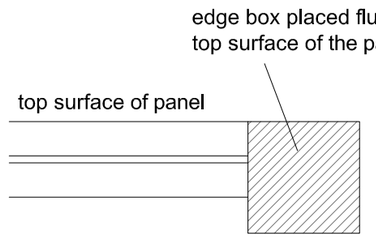


Diagram for the position of the edge boxes



Panel type A
Amount: 27

Specifications

Description:	Monocrystalline silicon solar cells integrated in transparent glass panel
Panel size:	width x length=1183x1497 mm
Panel thickness:	8.8 mm
Amount of cells:	48 cells
Cell type:	Mono 6" 3 BUS BARS
Cable thickness:	4mm²
Cable length:	3500 mm
Connector type:	MC4

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4, 3, 2, 1
Participants: Prêt-à-Loger – Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: PHOTOVOLTAIC SYSTEM	Drawing Scale:
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: PV MODULES TYPE A	Drawing Code: **PV-041**

A3

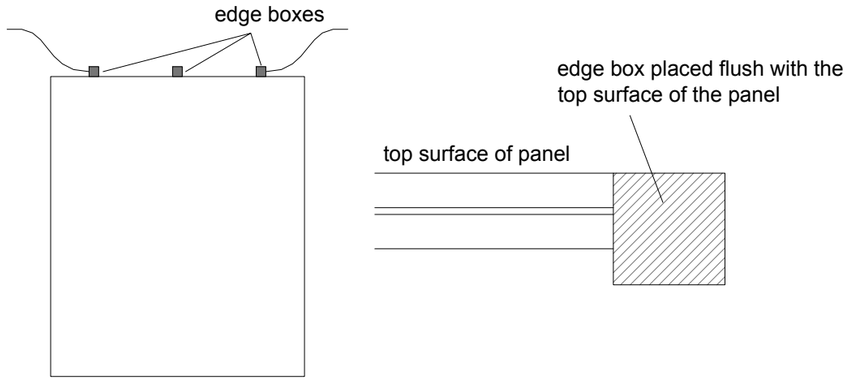
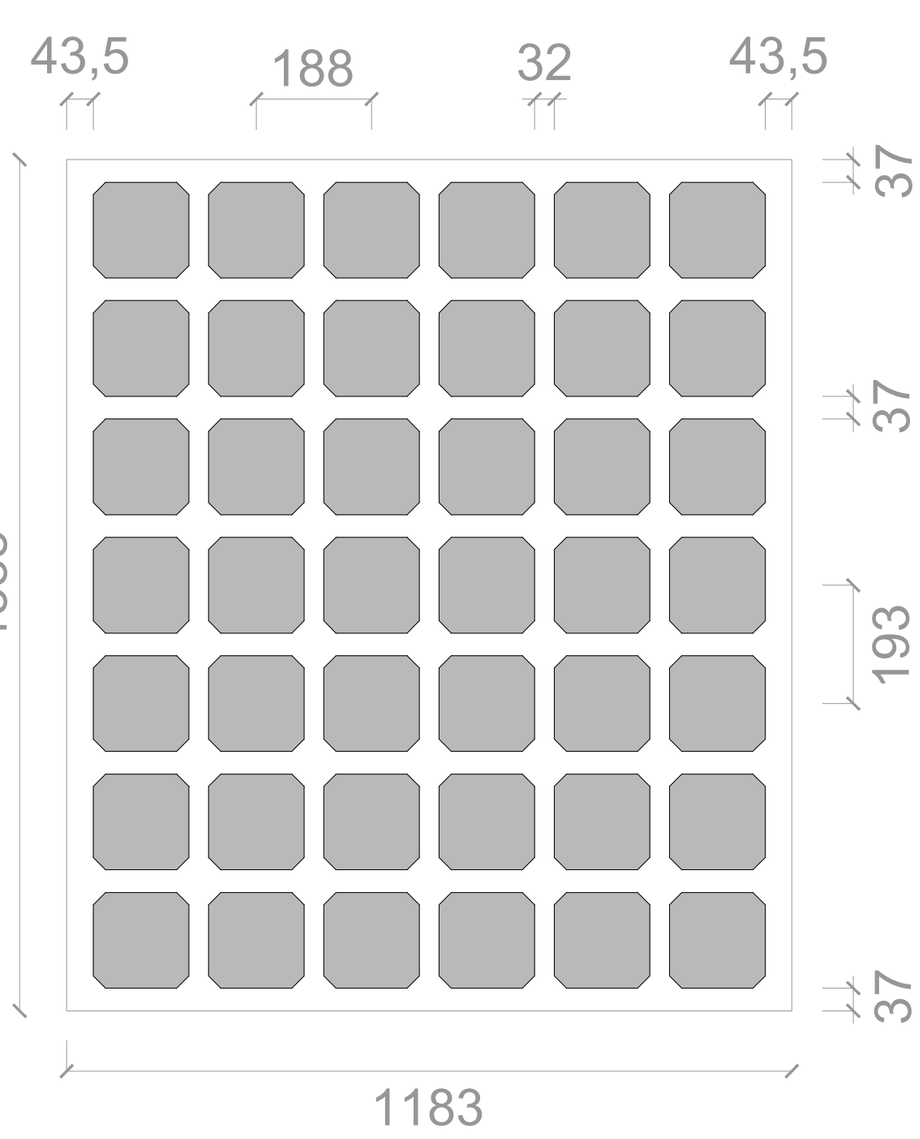
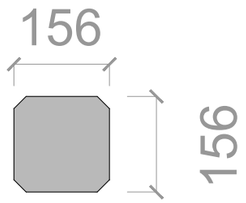


Diagram for the position of the edge boxes





Panel type B
Amount: 8

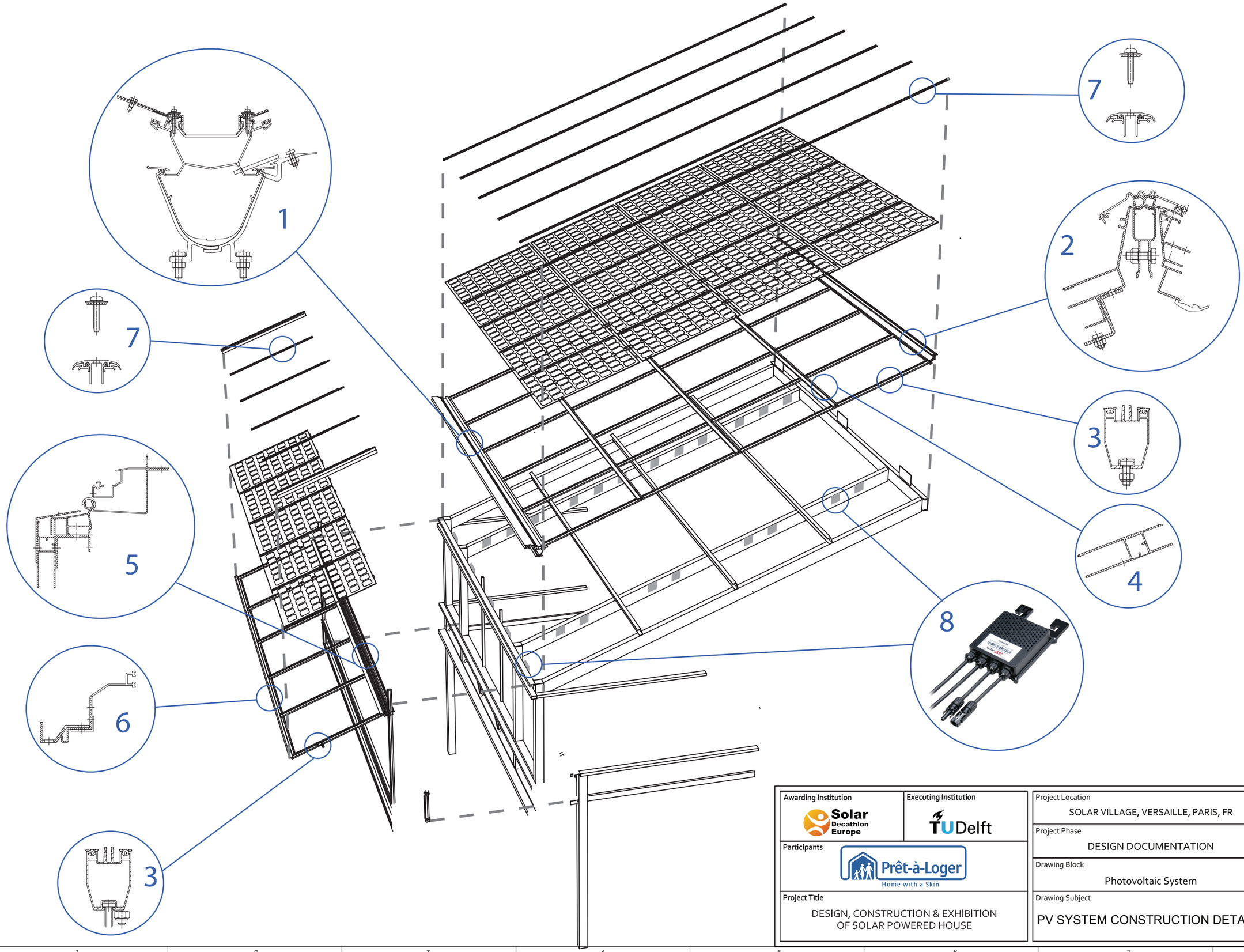
Specifications

Description:	Monocrystalline silicon solar cells integrated in transparent glass panel
Panel size:	width x length=1183x1388 mm
Panel thickness:	8.8 mm
Amount of cells:	42 cells
Cell type:	Mono 6" 3 BUS BARS
Cable thickness:	4mm²
Cable length:	3500 mm
Connector type:	MC4

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4, 3, 2, 1
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: PHOTOVOLTAIC SYSTEM	Drawing Scale
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: PV MODULES TYPE B	Drawing Code: **PV-051**

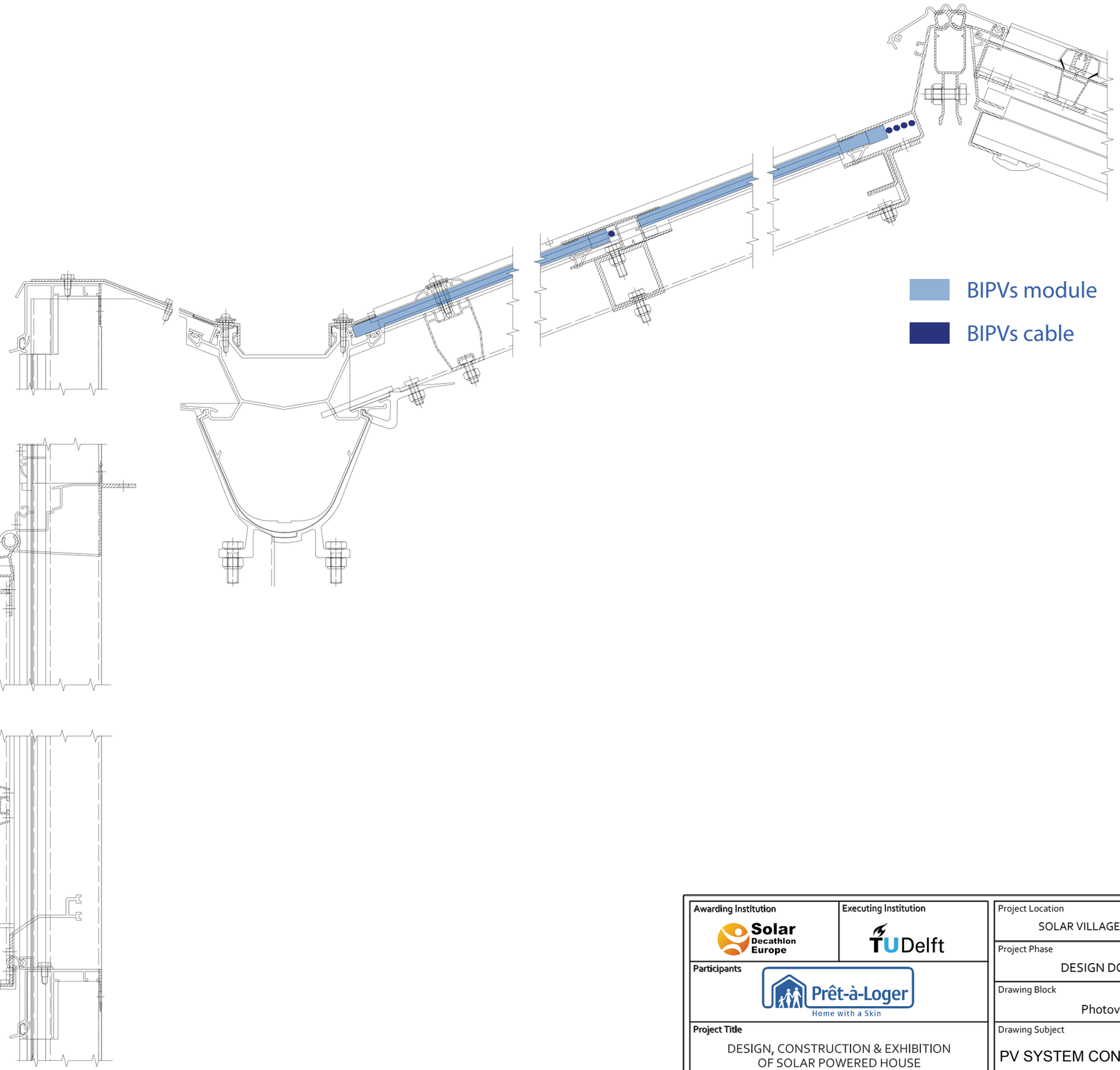
A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1
Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
Drawing Block: Photovoltaic System	Drawing Scale:
Drawing Subject: PV SYSTEM CONSTRUCTION DETAILS	Drawing Code: **PV-061**

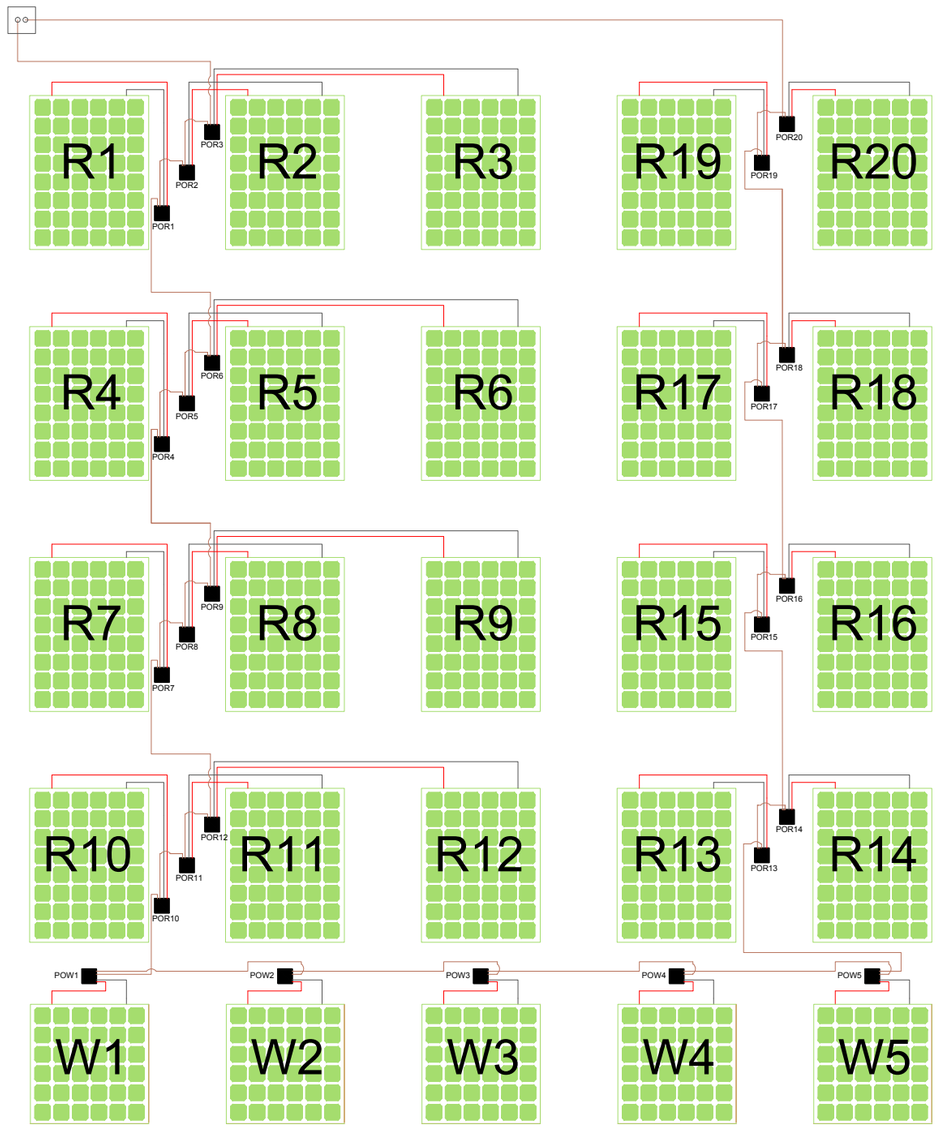
A3



all measurements are in mm

Awarding Institution Solar Decathlon Europe	**Executing Institution** TU Delft	Project Location SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions 4 3 2 1
Participants Prêt-à-Loger Home with a Skin		Project Phase DESIGN DOCUMENTATION	Paper Size A3
		Drawing Block Photovoltaic System	Drawing Scale
Project Title DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject PV SYSTEM CONSTRUCTION DETAILS	Drawing Code **PV-071**

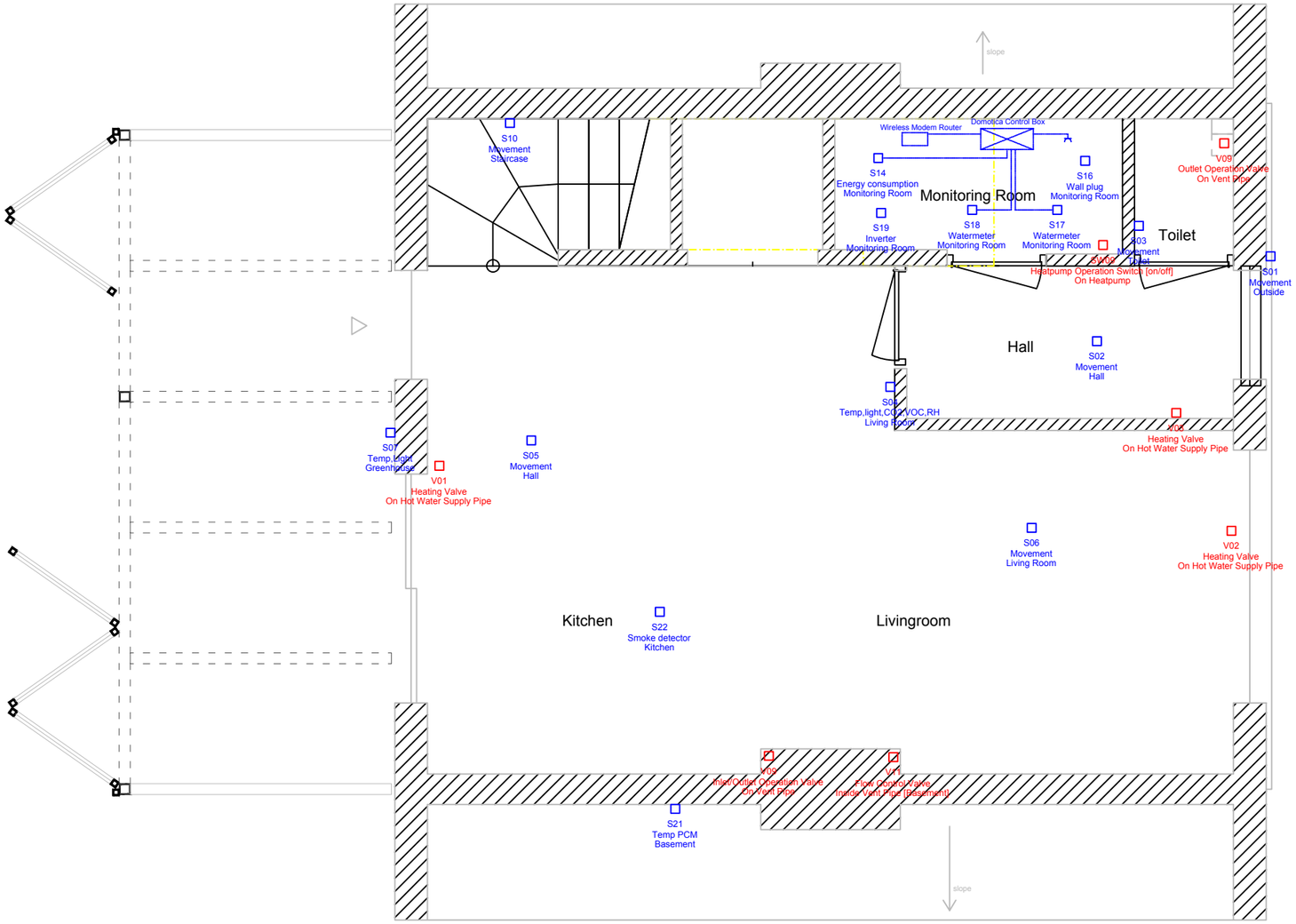
A3



all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: SOLAR VILLAGE, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1
Participants: Prêt-à-Loger — Home with a Skin		Project Phase: DESIGN DOCUMENTATION	Paper Size: A3
		Drawing Block: Photovoltaic System	Drawing Scale:
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: Roof Wiring	Drawing Code: PV- 081

A3



RED Sensors

RED Actors

all measurements are in mm

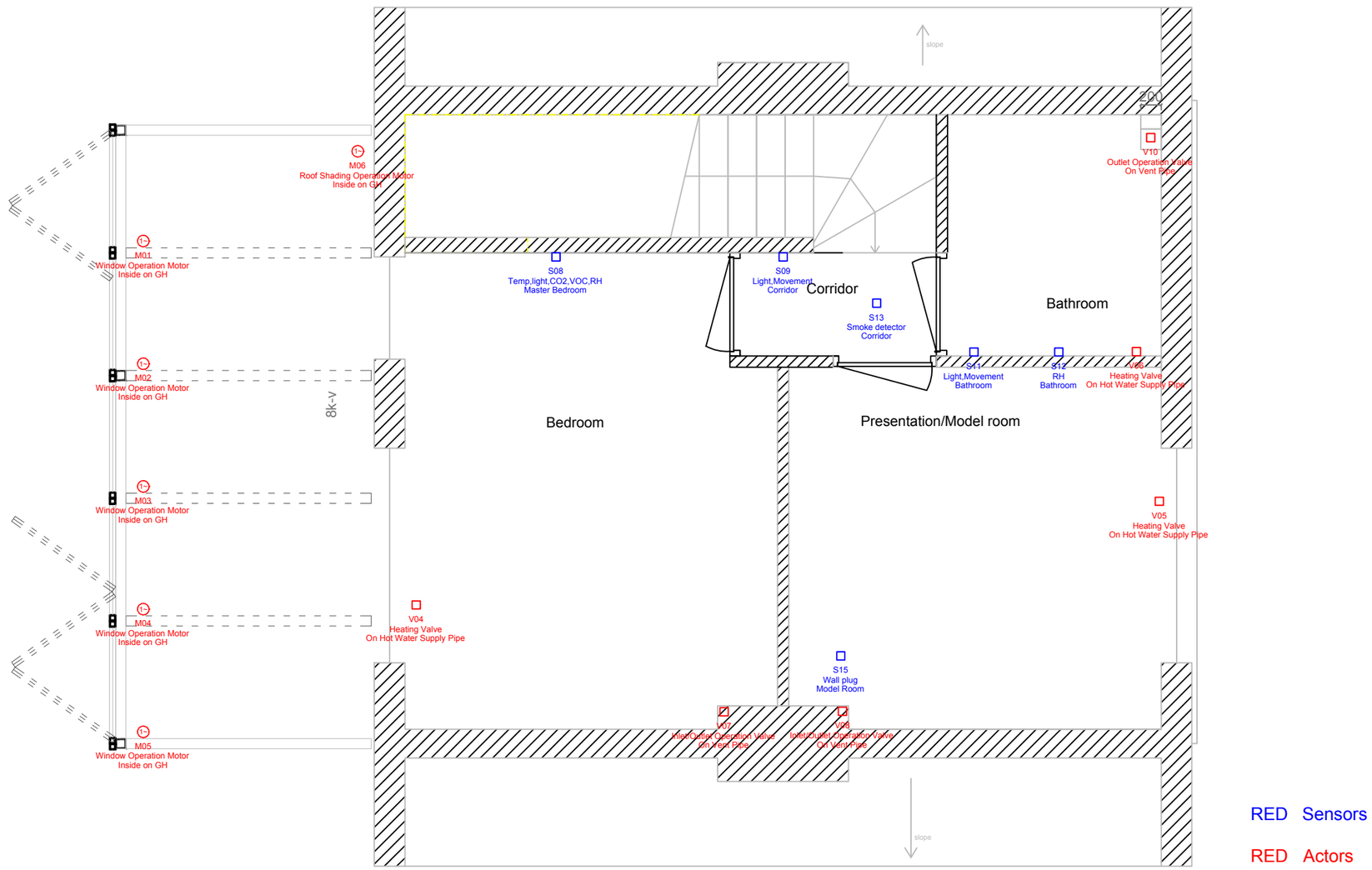
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: TELECOMMUNICATIONS AND BAS	
Drawing Subject: WIRING PLAN - GROUND FLOOR	

Revisions		
4	-- -- ----	-
3	-- -- ----	-
2	-- -- ----	-
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:50
Drawing Code	BAS-001

A3



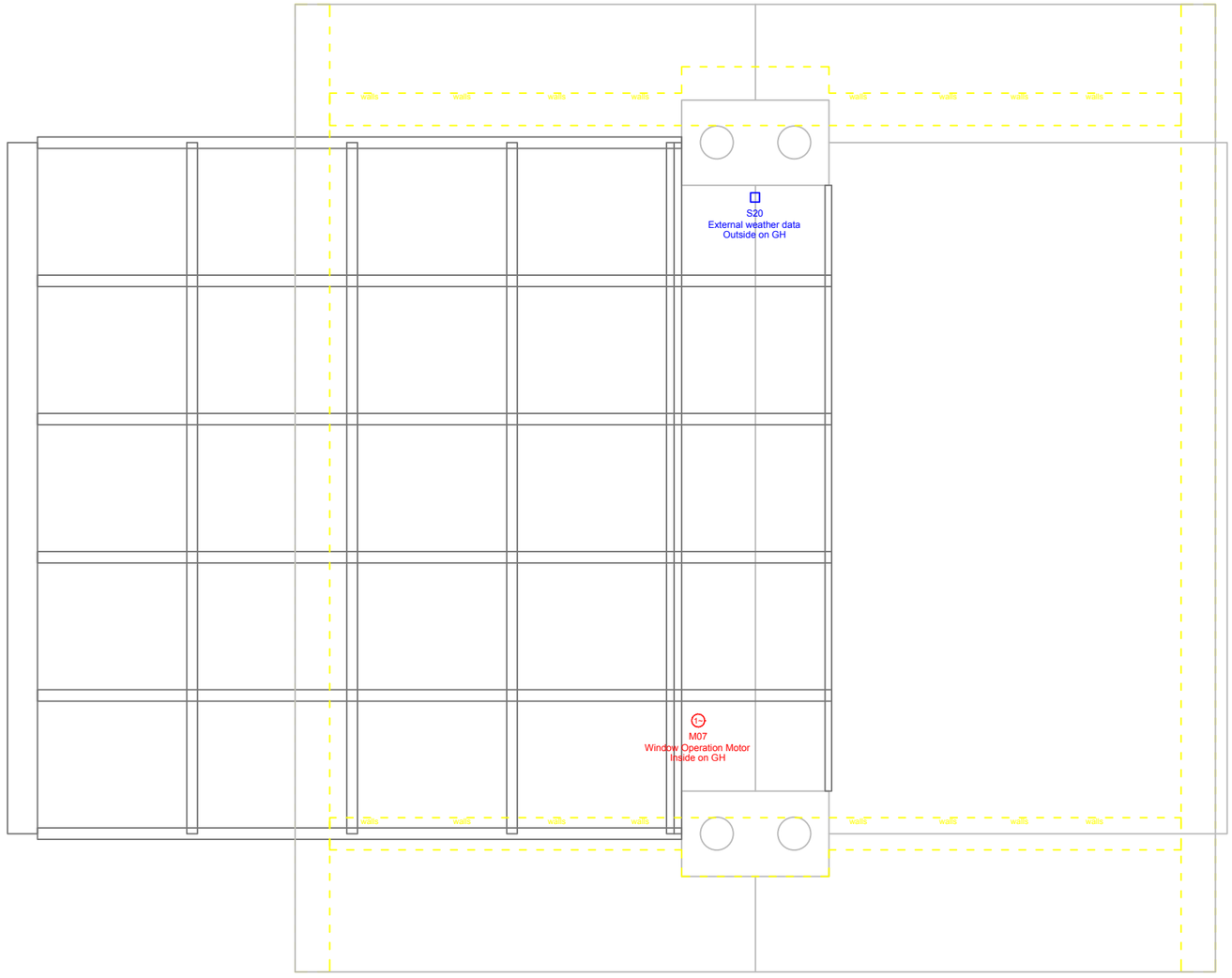
RED Sensors

RED Actors

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 ---.---.---- -; 3 ---.---.---- -; 2 ---.---.---- -; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: TELECOMMUNICATIONS AND BAS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: WIRING PLAN - FIRST FLOOR	Drawing Code: BAS-002

A3



RED Sensors

RED Actors

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 -- -- ---- ; 3 -- -- ---- ; 2 -- -- ---- ; 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: TELECOMMUNICATIONS AND BAS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: WIRING PLAN - ROOF	Drawing Code: BAS-003

A3

Actionlist & feedback

Theme	No.	Device controlled	Position	Functionality	Sensor(s), switch(sw)	Notebook interface	Specifications
Light	1	Lighting fixture	Outside front door	on/off	s1		
Light	2	Lighting fixture	Hallway	on/off	s2		
Light	3	Lighting fixture	Toilet	on/off	s3		
Light	4	Lighting fixture	Livingroom	on/off/dimmer	s4b,s5, sw4	Manuel control	
Light	5	Lighting fixture	Greenhouse	on/off/dimmer	s7b, sw5	Manuel control	
Light	6	Lighting fixture	Greenhouse	on/off/dimmer	s7b,sw6	Manuel control	
Light	7	Lighting fixture	Livingroom	on/off/dimmer	s4b,s6,sw7	Manuel control	
Light	8	Lighting fixture	Technical Room	on/off	sw8		
Light	9	Lighting fixture	Model Room	on/off	sw9	Manuel control	
Light	10	Light Solatube	Overloop	on/off	s9,s10		
Light	11	Light Solatube	Bathroom	on/off	s11		
Light	12	Lighting fixture	Bathroom	on/off	sw12		
Light	13	Lighting fixture	Master Bedroom	on/off/dimmer	s8b, sw13	Manuel control	
Light	14	Lighting fixture	Kitchen	on/off		Manuel control	
Sunshading	1	Motor sunshade GH roof	Green House inside	open/close	s4a,4b,7a,7b,20,sw14	Manuel control	
Natural Ventilation	1	Motor	windows GH roof	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Natural Ventilation	2	Motor	windows GH roof	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Natural Ventilation	3	Motor	windows GH roof	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Natural Ventilation	4	Motor	windows GH roof	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Natural Ventilation	5	Motor	windows GH roof	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Natural Ventilation	6	Motor	windows GH roof North fa	open/close	s4a,4c,4d,4e,7a,8c,8d,8e	Manuel control	
Ventilation & cooling	1	Mech. Van.	Basement	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	2	WTW mech valve	WTW room	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	3	WTW mech valve	WTW room	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	4	WTW mech valve	WTW room	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	5	WTW mech valve	WTW room	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	6	WTW mech valve	WTW room	off/stand1/2/3	s3,4a,4c,4d,4e,7a,8a,8c,8d,8e,11,12,20	Manuel control	
Ventilation & cooling	7	Valve	Basement	Stand1 air in house/stand2 air bypass outside nightventilation	s4a,8a,20,21		
Heating	1	OpenTherm	Technical Room	Communication to heating system, on/off	s4a,8a	Manuel control	
Heating	2	valve	Livingroom	on/off	s4a,8a	Manuel control	
Heating	3	valve	Hallway	on/off	s4a,8a	Manuel control	
Heating	4	valve	Kitchen	on/off	s4a,8a	Manuel control	
Heating	5	Valve	Bathroom	on/off	s4a,8a	Manuel control	
Heating	6	Valve	Presentation room	on/off	s4a,8a	Manuel control	
Heating	7	Valve	Bedroom	on/off	s4a,8a	Manuel control	
Feedback & interface	2	Energy consumption	-	Overview energy consumption total and 2 wall plugs [kwh]	s14,15,16	Graph	
Feedback & interface	3	Water consumption	-	Overview water consumption cold and warm water [L]	s17,18	Graph	
Feedback & interface	4	Fire alarm	Corridor	Alarm+notification on notebook	s14		
Feedback & interface	5	Im away	-	Lights off, temp set, ventilation set, etc		Manuel control	
Feedback & interface	6	Fish in aquarium interface	-	In stead of numbers and graphs, make a fish to communicate data			LINK

Awarding Institution: Solar Decathlon Europe

Suporting Institution: TU Delft

Contestant: Prêt-à-Loger, Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: TELECOMMUNICATIONS & BAS

Drawing Subject: EQUIPMENT

Revisions

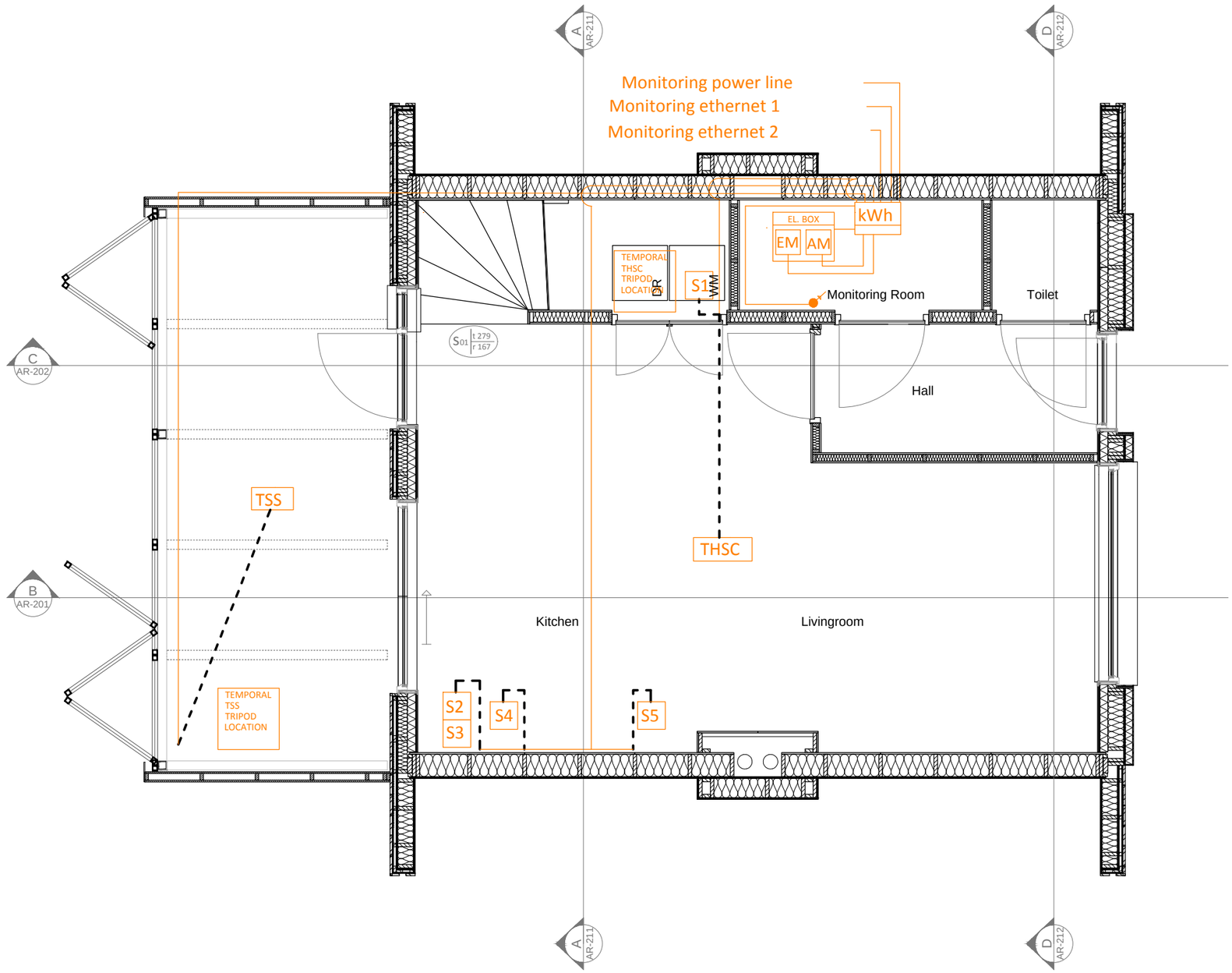
4		
3		
2		
1	03.03.2014	Del. 4

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: BAS-201

A3



EL. BOX — Electrical Box

kWh — Monitoring Box

Channeled wiring

Non-Channeled wiring

THSC — Temperature and humidity sensor for the competition (11m wire length, 19mm2 channeling diameter)

TSC — Temperature sensor for the competition (16m wire length, 19mm2 channeling diameter)

TSS — Temperature sensor for scientific purposes (19m wire length, 19mm2 channeling diameter)

S1 — Washing machine sensor (7m wire length, 19mm2 channeling diameter)

S2 — Fridge sensor (15m wire length, 32mm2 channeling diameter)

S3 — Refrigerator sensor (15m wire length, 32mm2 channeling diameter)

S4 — Dishwasher sensor (14m wire length, 32mm2 channeling diameter)

S5 — Oven sensor (13m wire length, 32mm2 channeling diameter)

EM — Home Electronics meter (4m cable length to monitoring panel)

AM — (Appliances+ligthing+BAS) meter (4m cable length to monitoring panel)

Wire going to the upper floor

Wire continuing from the bottom floor

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: SDE INSTRUMENTATION DRAWINGS	
Drawing Subject: GENERAL MONITORING GROUND FLOOR	

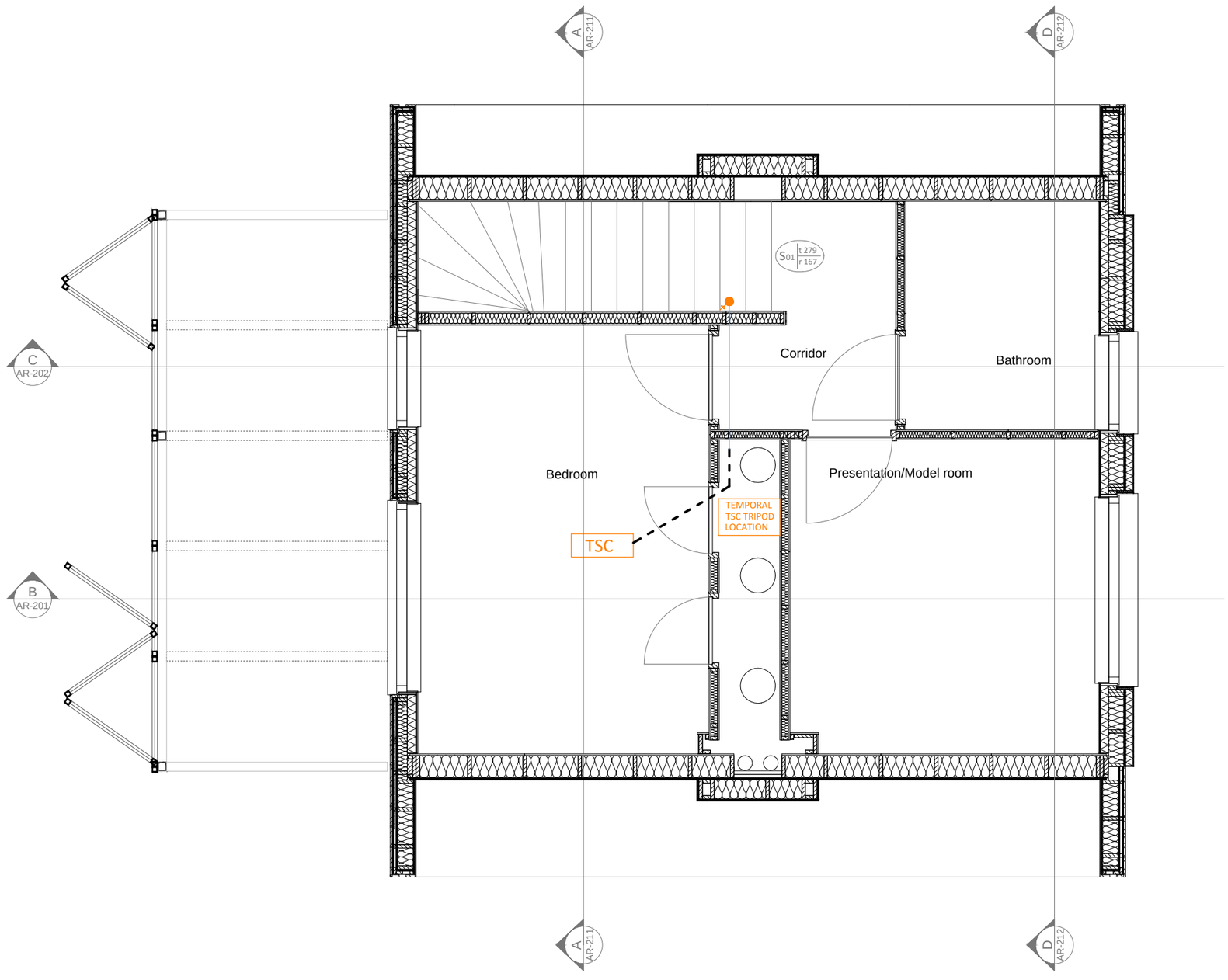
Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.04.2014	DEL #5

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ID-001**

A3



EL BOX — Electrical Box

kWh — Monitoring Box

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EM — Home Electronics meter (4m cable length to monitoring panel)

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Wire going to the upper floor

Wire continuing from the bottom floor

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger — Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: SDE INSTRUMENTATION DRAWINGS	
Drawing Subject: GENERAL MONITORING FIRST FLOOR	

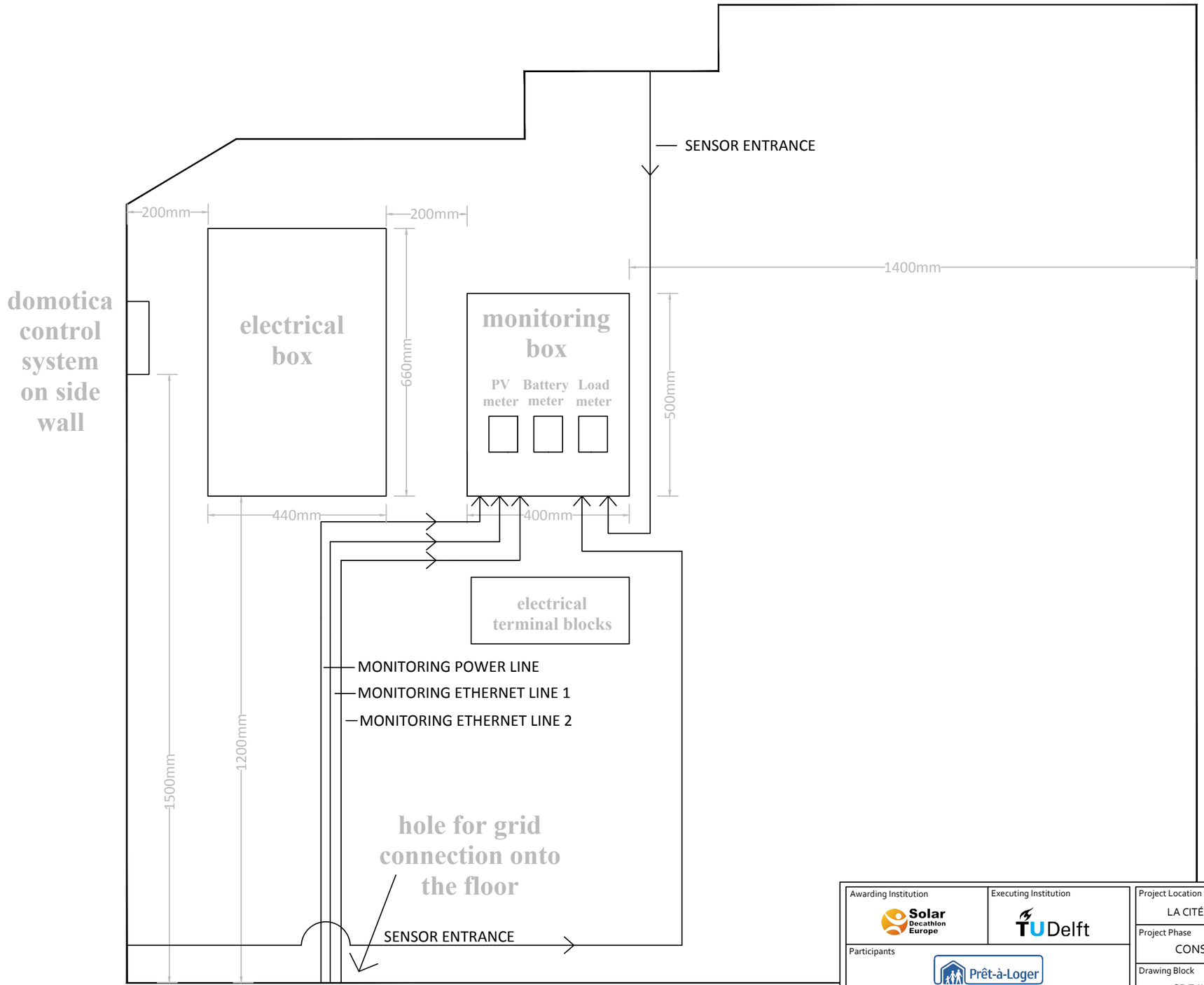
Revisions		
4	--.--.----	-
3	--.--.----	-
2	01.11.2014	DEL #7
1	28.04.2014	DEL #5

Paper Size: A3

Drawing Scale: 1:50

Drawing Code: **ID-001**

A3



Monitoring room wall elevation

all measurements are in mm

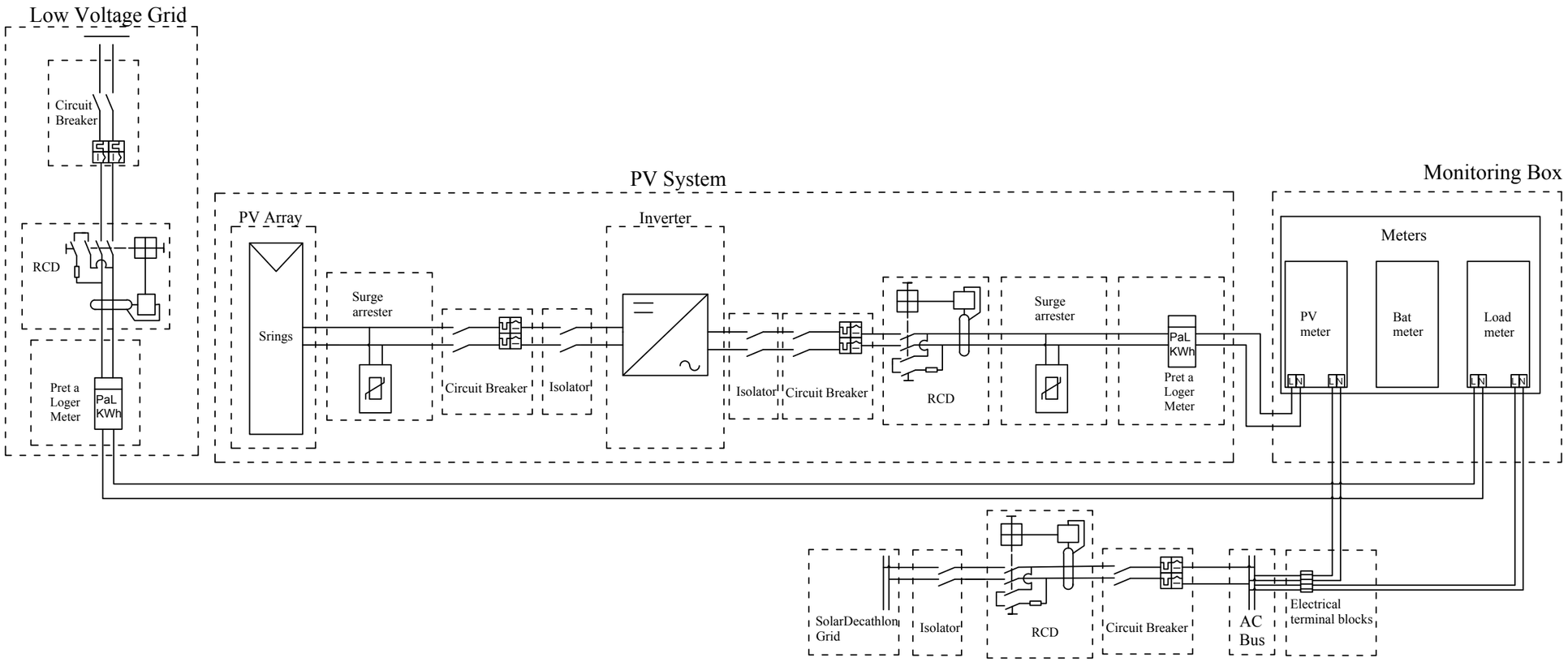
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft
Participants: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: SDE INSTRUMENTATION DRAWINGS	
Drawing Subject: MONITORING PANEL ROOM DIAGRAM	

Revisions		
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	First Revision
1	30.04.2014	Initial Version

Paper Size: A3

Drawing Scale: 1:10

Drawing Code: **ID-002**



all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	SDE INSTRUMENTATION DRAWINGS
Drawing Subject	ELECTRICITY METERS TOPOLOGY

Revisions		
4	--.--.----	-
3	--.--.----	-
2	31.05.2014	First Revision
1	28.04.2014	Initial Version

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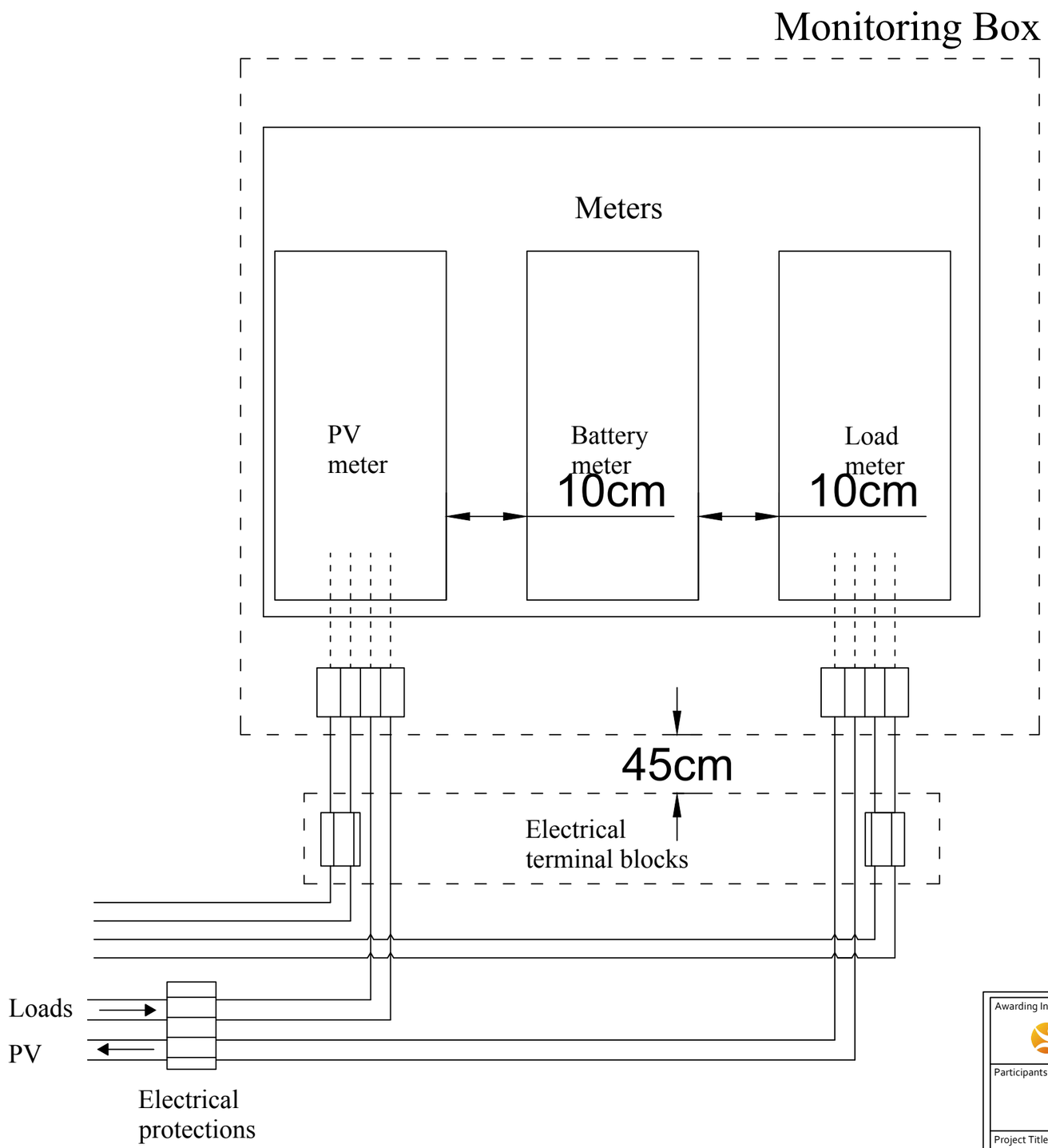
Drawing Scale	n/a
Drawing Code	ID-003

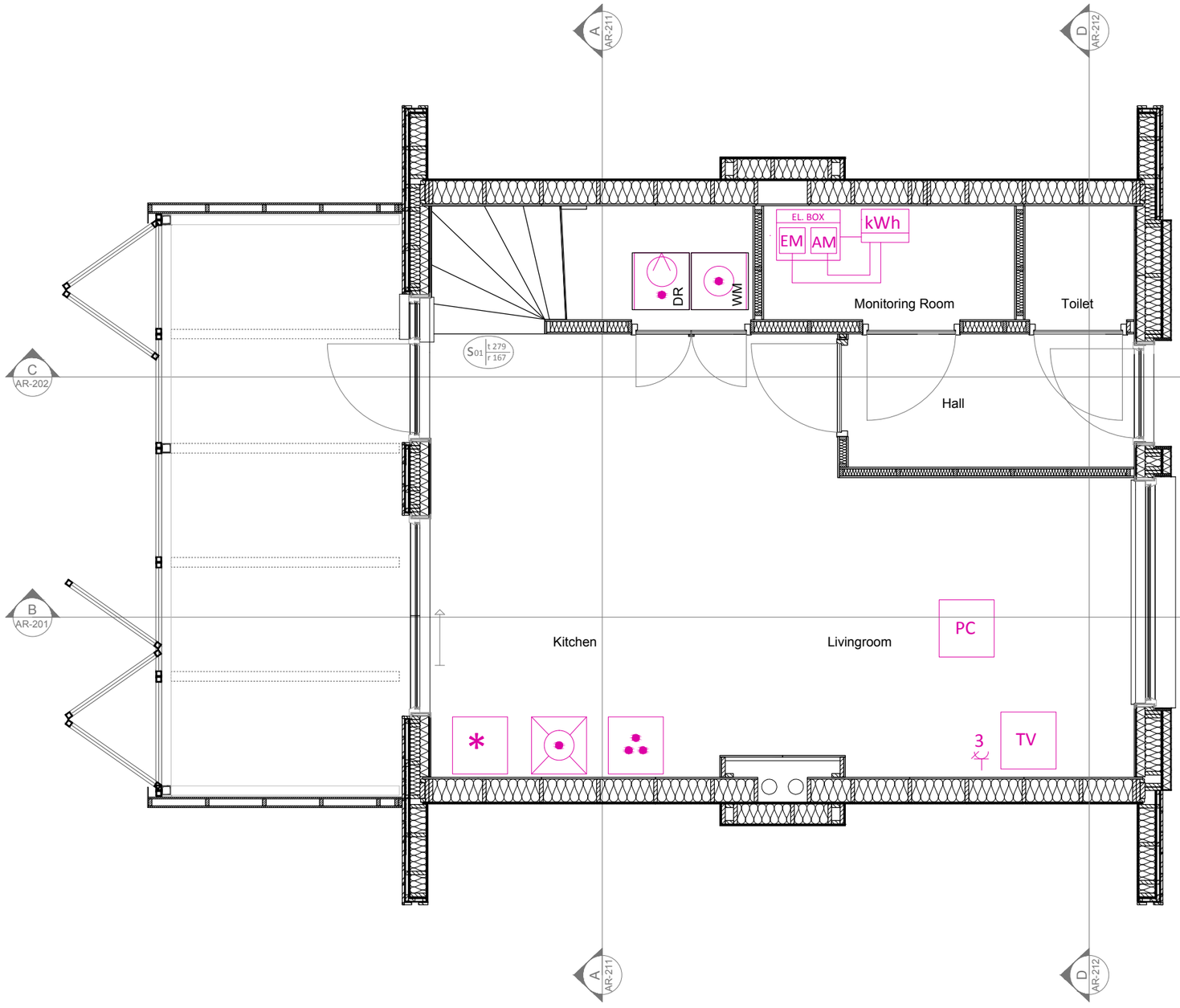


all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger — Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	SDE INSTRUMENTATION DRAWINGS
Drawing Subject	ELECTRICITY METERS CONNECTION

Revisions		
4	--.--.----	-
3	--.--.----	-
2	30.05.2014	First Revision
1	28.04.2014	Initial Version

Paper Size	A3
Drawing Scale	n/a
Drawing Code	ID-004

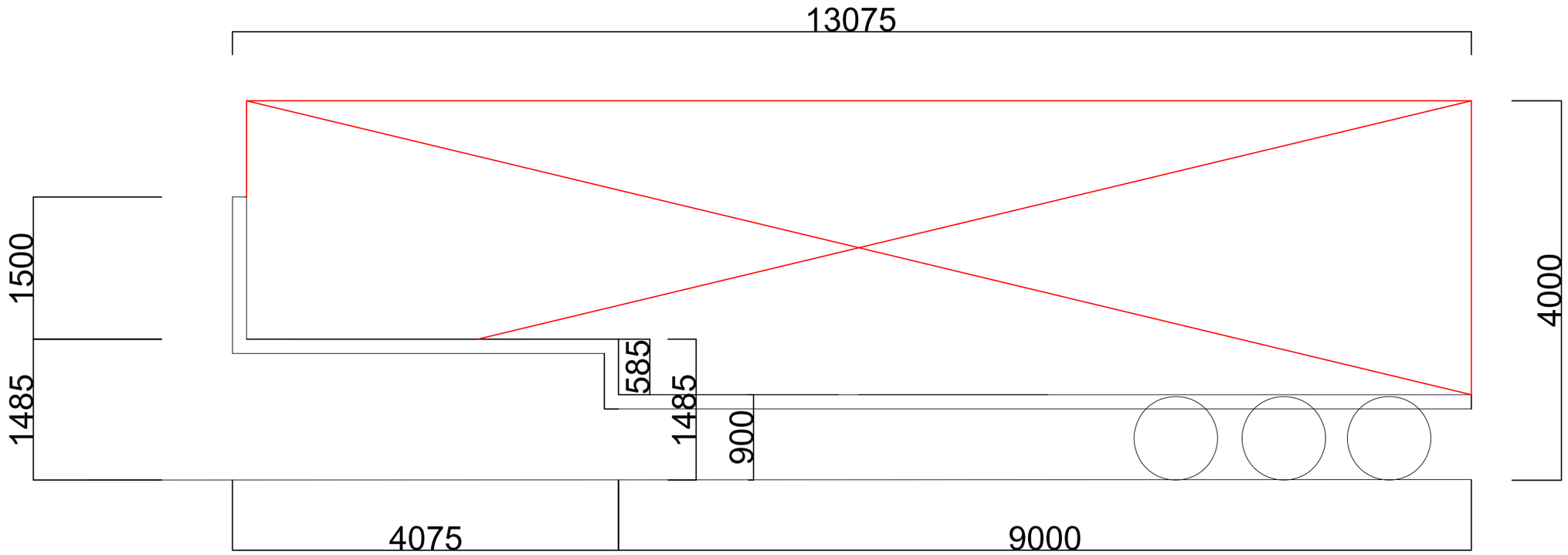


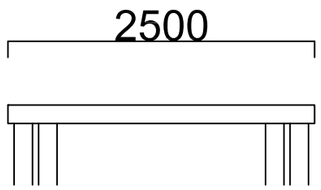
EL. BOX	Electrical Box
kWh	Monitoring Box with PV meter, Load meter installed into it
	Washing Machine Bosch WAY28770NL
	Dryer Bosch WTY88782NL
*	Combined fridge and refrigerator Bosch KIS86AD40
	Dishwasher Bosch SBV99T10NL
	Oven Bosch HBG36B650 with hot plates on top Bosch PIA611F18E
TV	Television with integrated video playback feature Samsung UE28H4000
PC	Laptop MacBook Pro
EM	Home Electronics meter (4m cable length to monitoring panel)
AM	(Appliances+ligthing+BAS) meter (4m cable length to monitoring panel)
3	Triple Internal Socket for the home electronics

all measurements are in mm

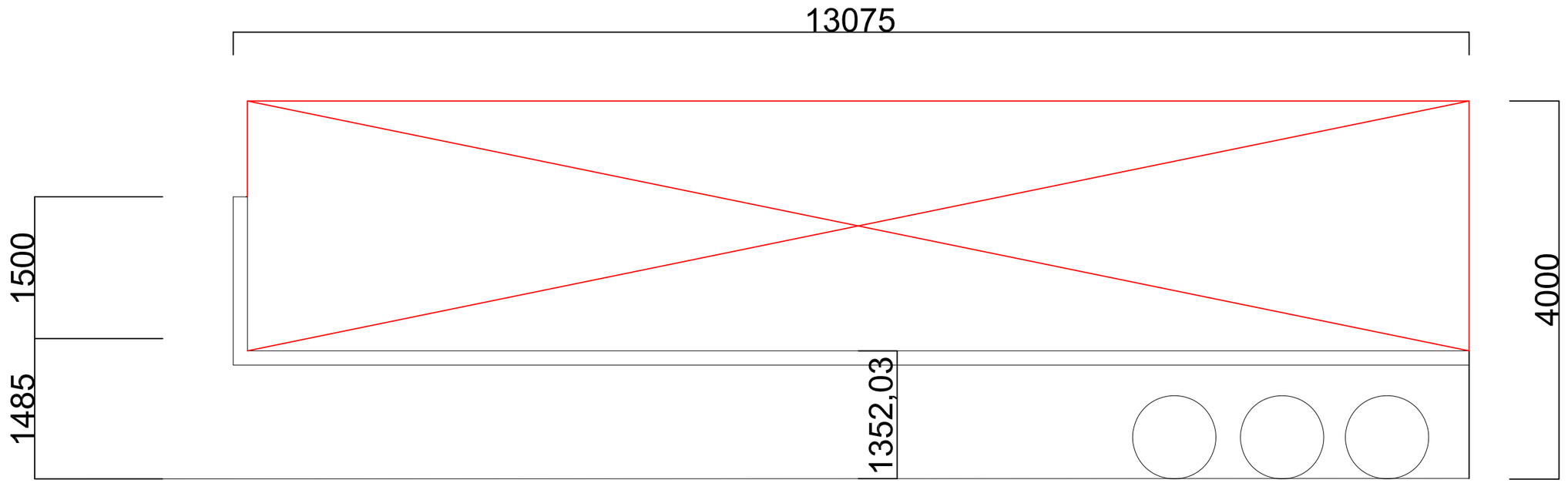
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - ; 3 --.--.---- - ; 2 31.05.2014 First Revision ; 1 28.04.2014 Initial Version
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SDE INSTRUMENTATION DRAWINGS	Drawing Scale: 1:50
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: HOUSE APPLIANCES GROUND FLOOR	Drawing Code: ID-005

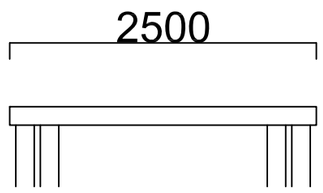
A3





Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: N/A
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK DIMENSIONS TRUCK 1	Drawing Code: **S0-001**





Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
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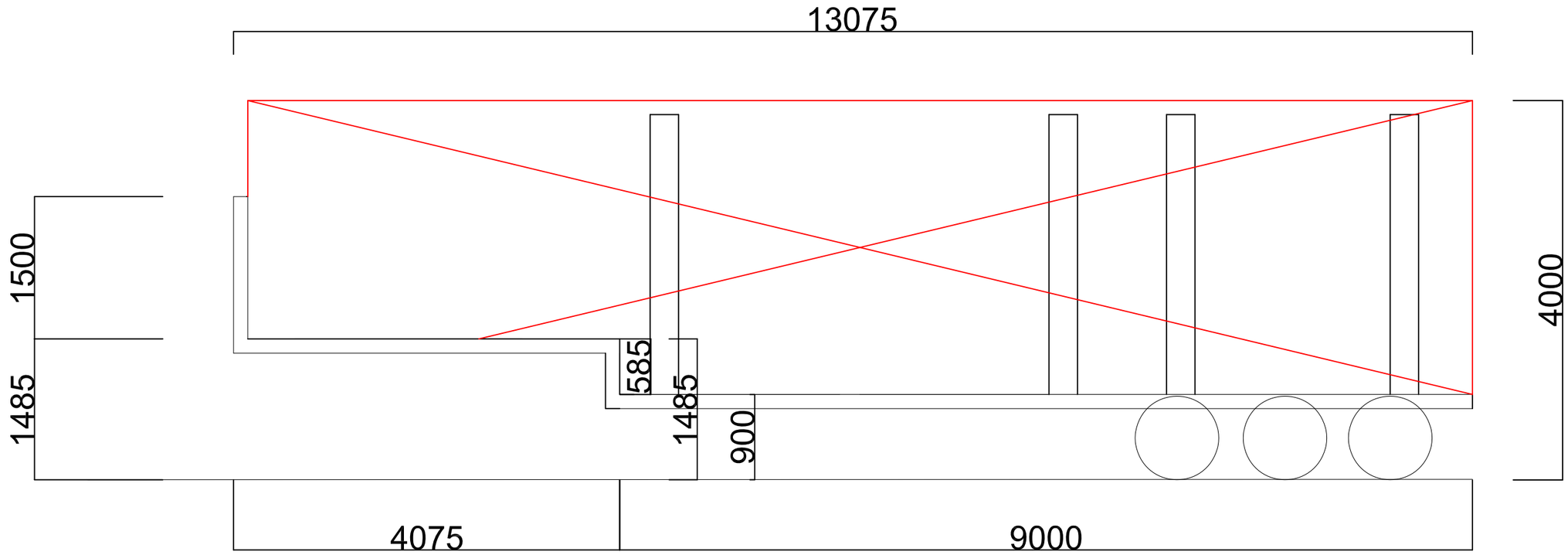
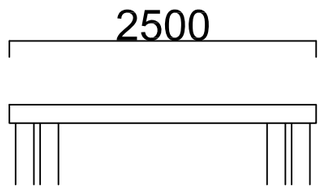
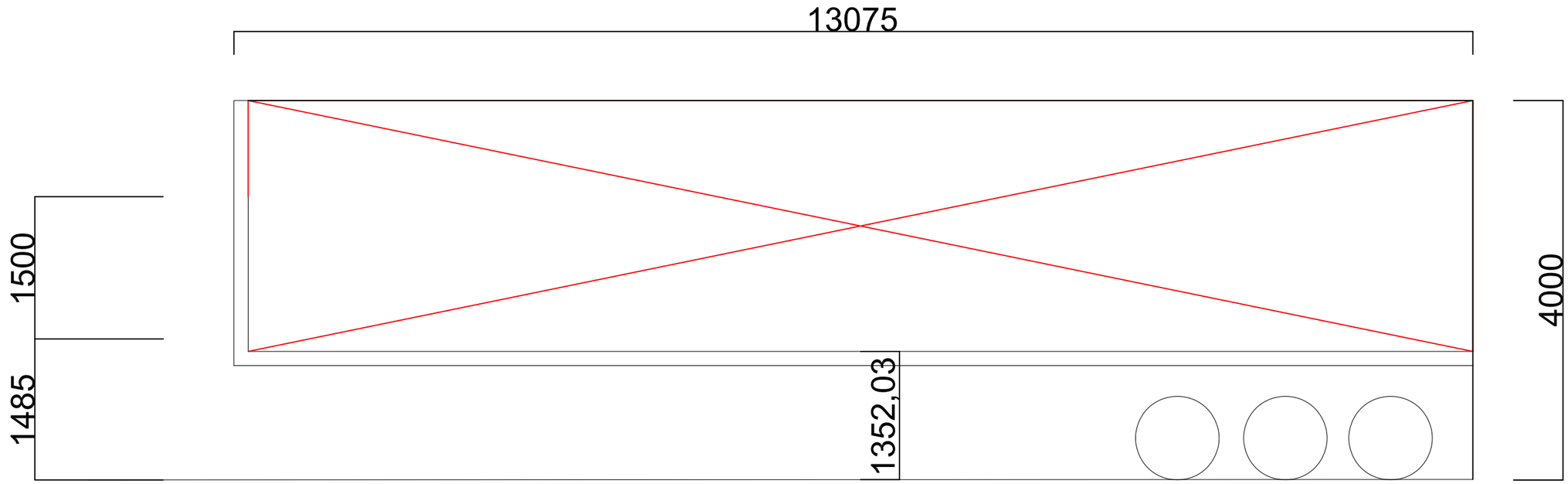
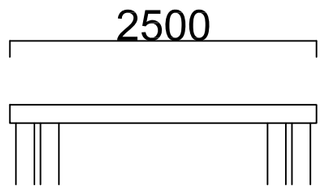
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK DIMENSIONS TRUCK 2	Drawing Code: **S0-002**





Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: N/A
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK DIMENSIONS TRUCK 3	Drawing Code: **S0-003**





Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
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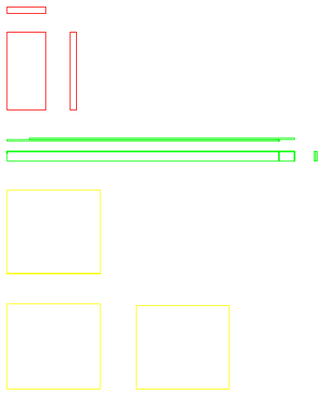
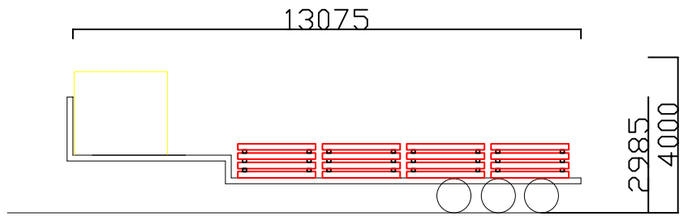
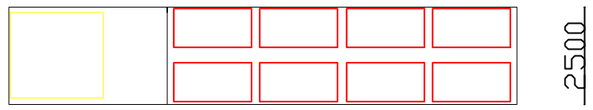
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK DIMENSIONS TRUCK 4	Drawing Code: **S0-004**





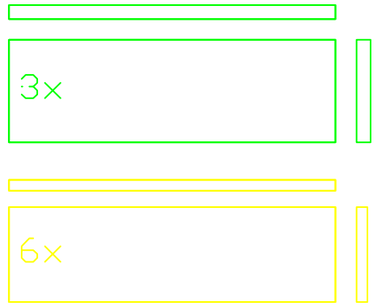
Side View Truck

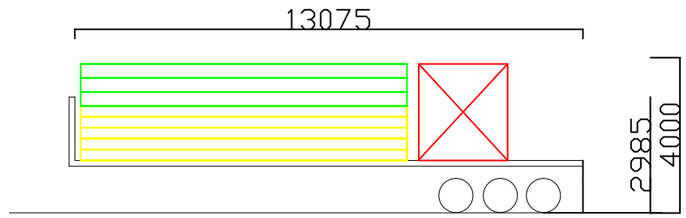


Top View Truck

Wooden Beams (6x [6000 x 71 x 245])
Container (1x [2400 x 2200 x 2150])
Stelcon Plates (32x [1000 x 2000 x 160])
Extra on truck: Steal L's (78x),
Equipment in Container, Adjusting Blocks

Truck 1
Empty Truck: 13 tons Full Truck: 30 tons





Side View Truck



Top View Truck

Foundation Panels House (3x [2645 x 8400 x 360])
Foundation Panels Garden (6x [2440 x 8400 x 280])
Fences

Truck 2
Empty Truck: 13 tons Full Truck: 15 ton

Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
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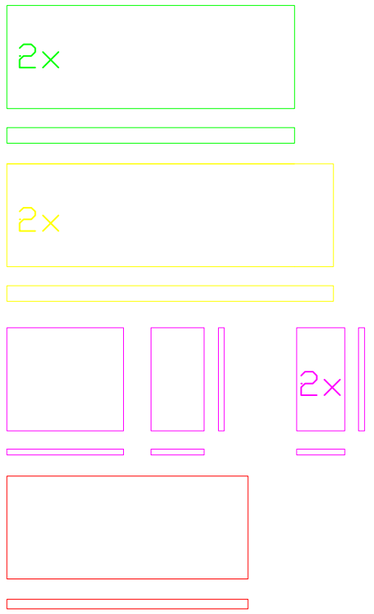
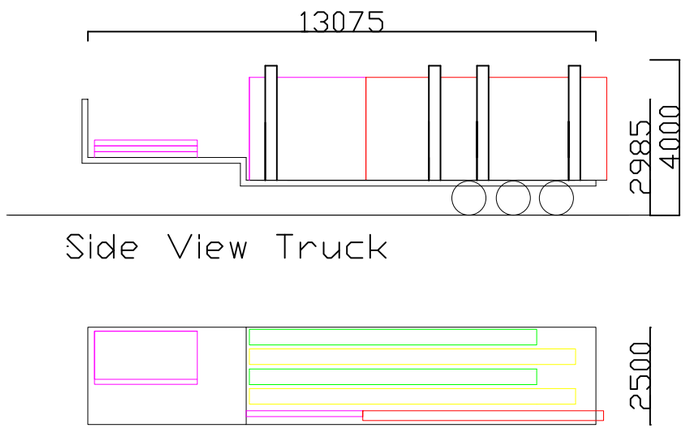
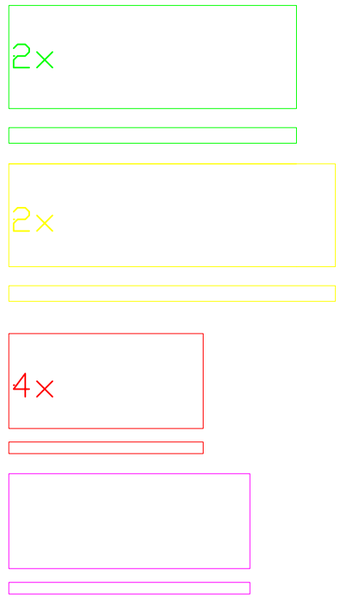
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK LOAD TRUCK 1 and 2	Drawing Code: **S0-005**

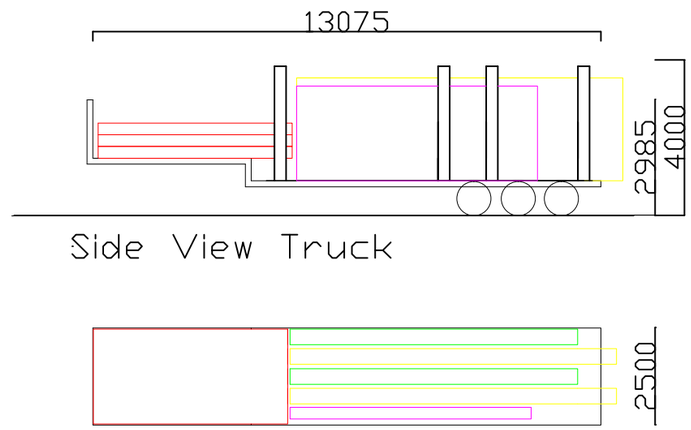




Side Walls Ground Floor (2x [7400 x 2650 x 400])
Brick Walls Ground Floor (2x [8400 x 2650 x 400])
Interior Wall Ground Floor I (1x [6200 x 2600 x 268])
Interior Walls Ground Floor (4x [2600 x 2600 x 155])

Truck 3
Empty Truck: 13 tons Full Truck: 24 ton:





Side Walls First Floor (2x [7400 x 2650 x 400])
Brick Walls First Floor (2x [8400 x 2650 x 400])
Floor I (3x [5000 x 2400 x 370])
Floor II (1x [6200 x 2400 x 370])

Truck 4
Empty Truck: 13 tons Full Truck: 24 ton:

Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
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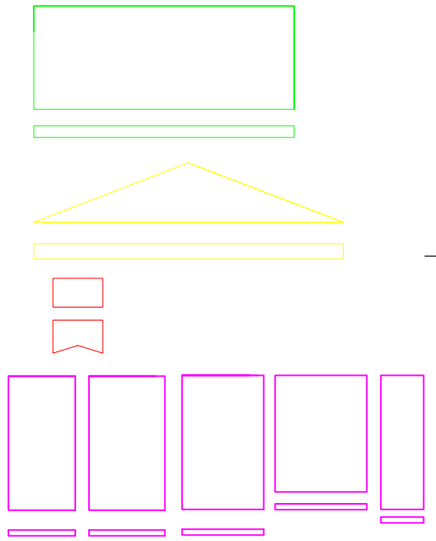
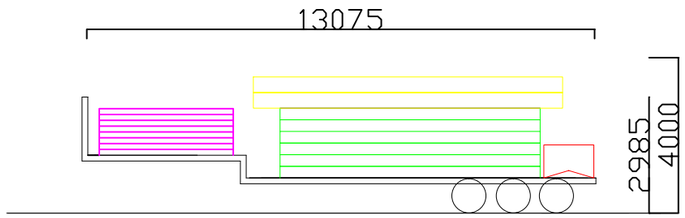
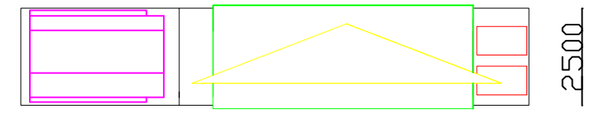
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK LOAD TRUCK 3 and 4	Drawing Code: **S0-006**





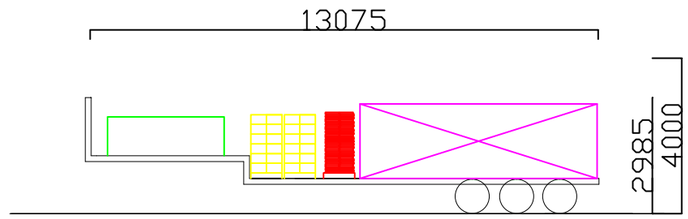
Side View Truck



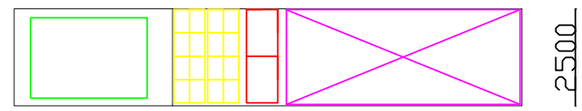
Top View Truck

Roof (6x [6800 x 2650 x 330])
Side Wall Roof (2x [7950 x 1500 x 400])
Chimney (2x [1280 x 800 x 760])
Interior Walls First Floor (8x [3000 x 2360 x 155])

Truck 5
Empty Truck: 13 tons Full Truck: 30 ton:



Side View Truck

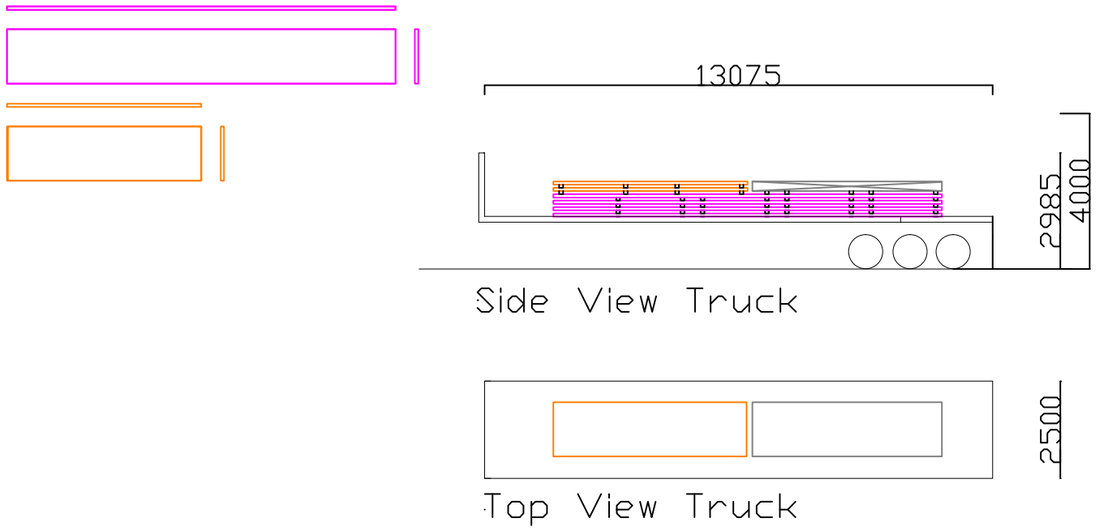


Top View Truck

PV Panels (25x)
Green Roof
Roof Tiles
Skin

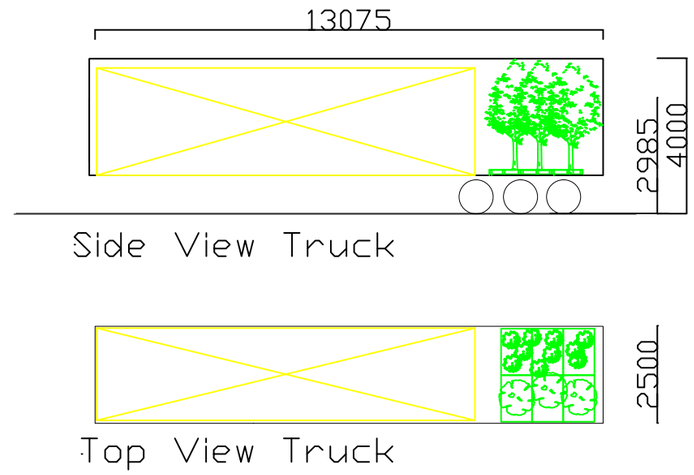
Truck 6
Empty Truck: 13 tons Full Truck: 30 ton:

Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: N/A
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK LOAD TRUCK 5 and 6	Drawing Code: **S0-007**



Ramp part I (4x [10000 x 1400 x 85])
Ramp part II (2x [5000 x 1400 x 85])
Ramp part III Platforms 2x [])

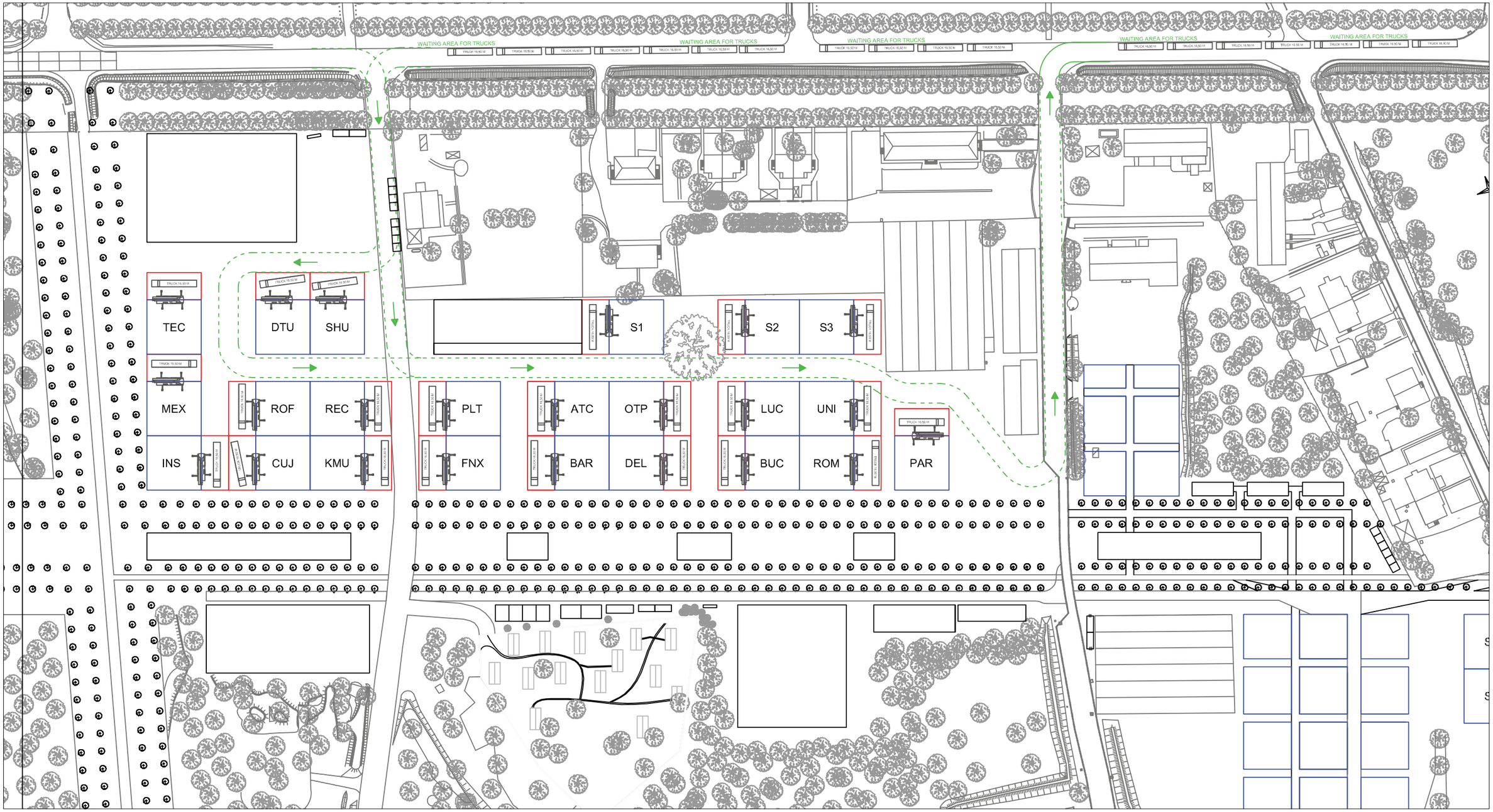
Truck 7
Empty Truck: 13 tons Full Truck: 30 ton:



Trees (3x), Bushes (3x)
Room for furniture and kitchen

Truck 8
Empty Truck: 13 tons Full Truck: 30 ton:

Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: N/A
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: TRUCK LOAD TRUCK 7 and 8	Drawing Code: **S0-008**



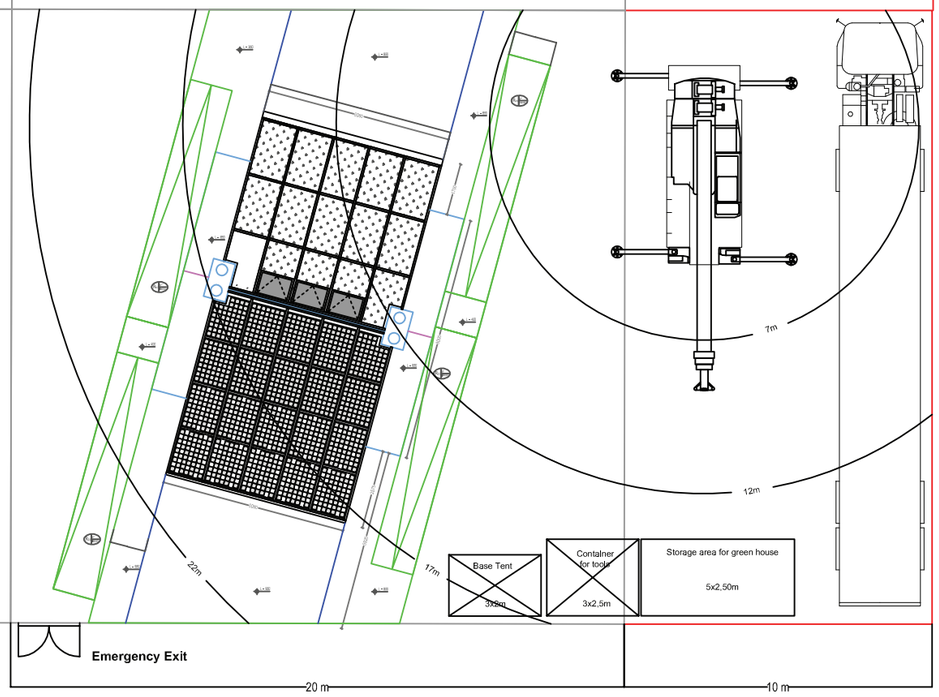
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft
Contestant: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
Drawing Block: SITE OPERATIONS	Drawing Scale: 1:1500
Drawing Subject: LA CITÉ DU SOLEIL	Drawing Code: **S0-101**

Team ATC
France

Team OTP
Germany

Team BAR
Spain



Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
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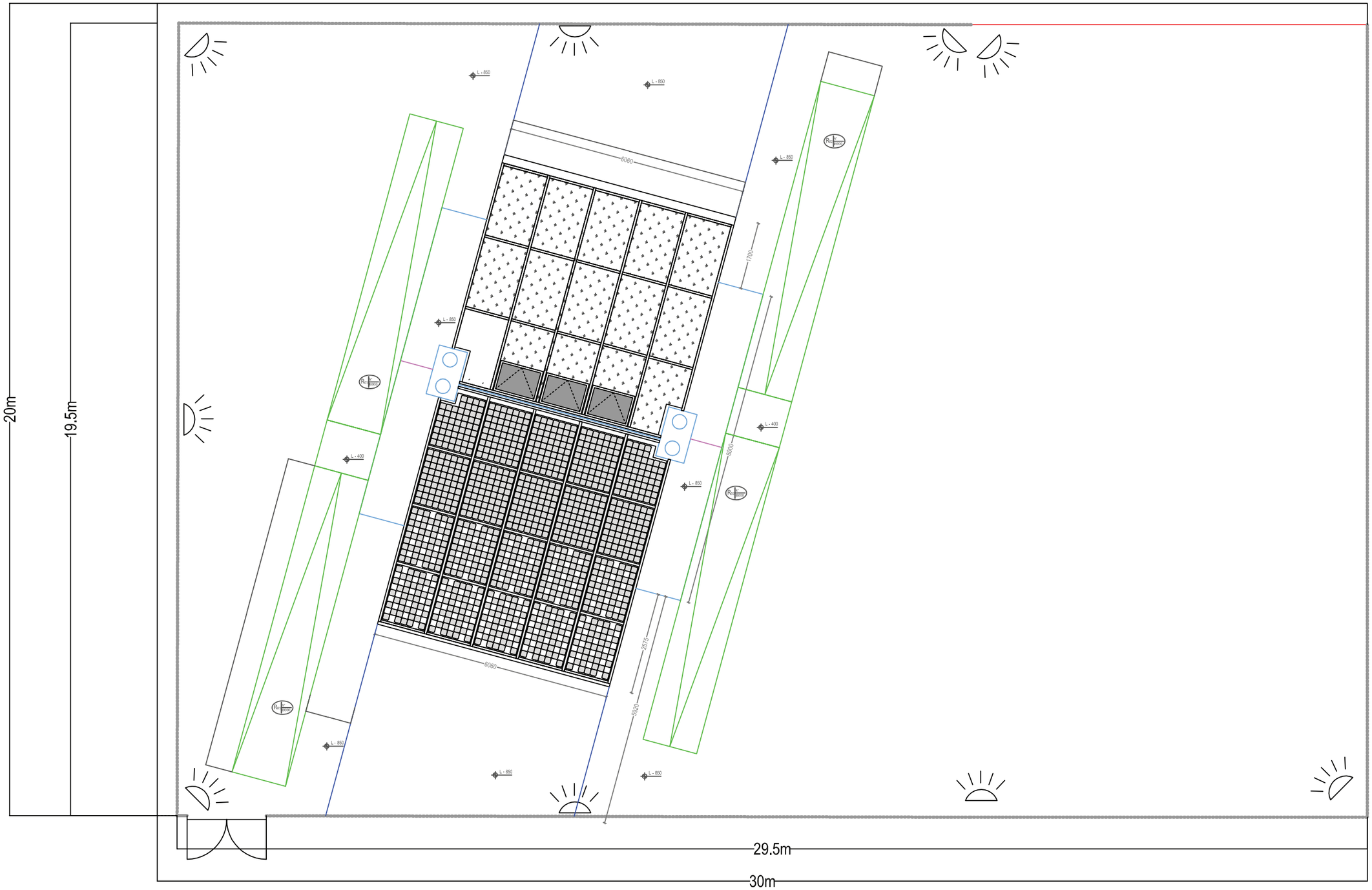
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: LOT PLAN ORIENTATION	Drawing Code: **S0-102**

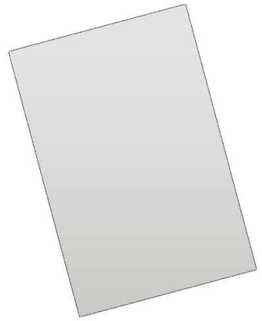


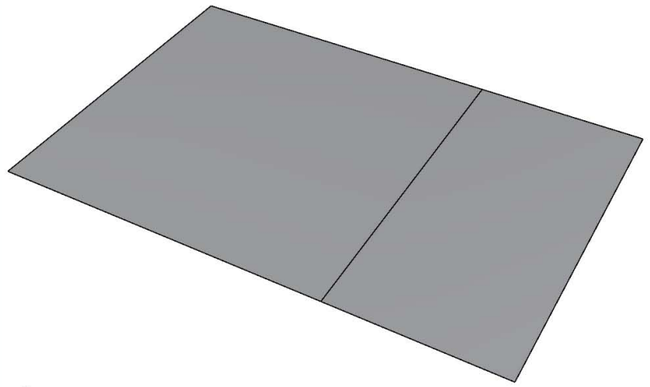
Lights

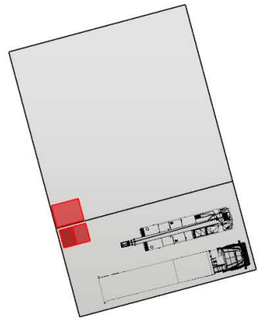
Emergency Exit

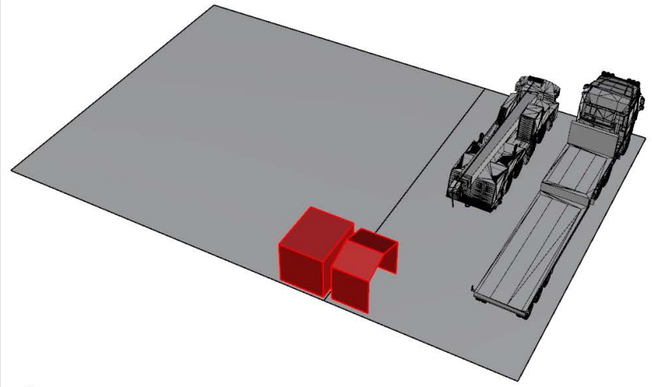
Fence

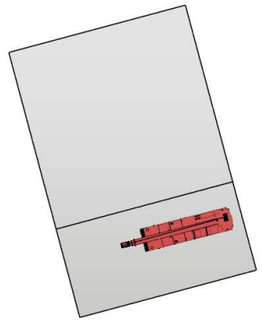
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft
Contestant: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	
Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4; 3; 2; 1 — 20.04.2014 — Del. 5
Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
Drawing Block: SITE OPERATIONS	Drawing Scale: 1:100
Drawing Subject: LOT PLAN FENCES AND LIGHT	Drawing Code: **S0-103**

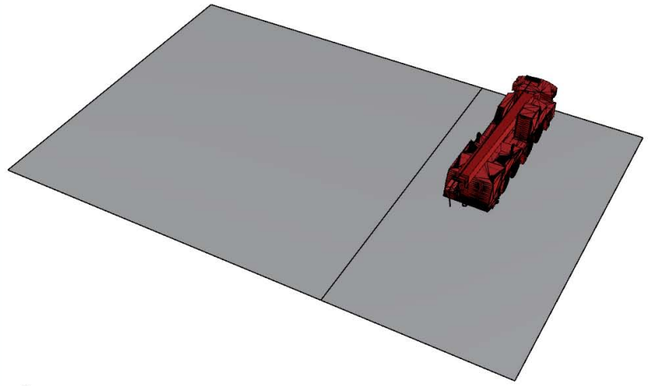


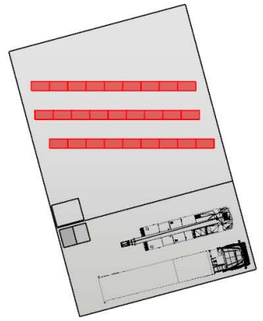


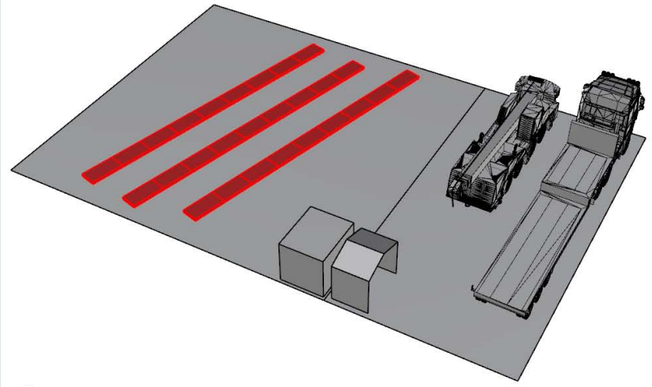


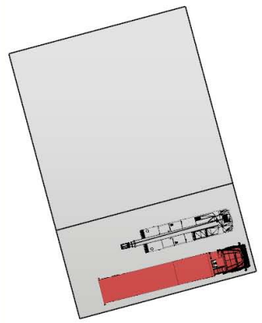


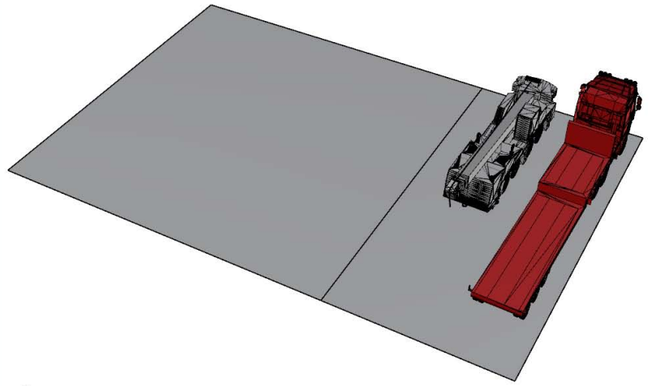


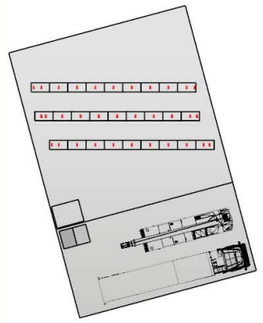


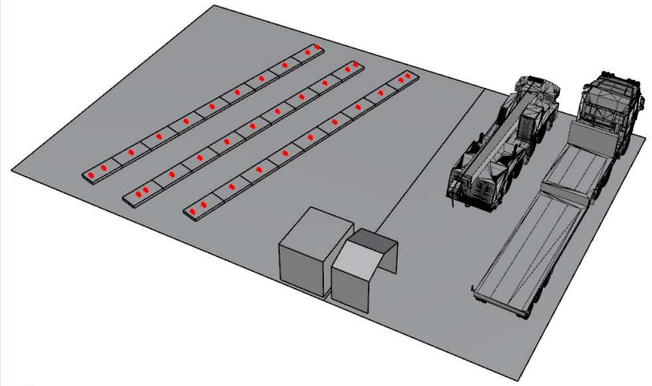




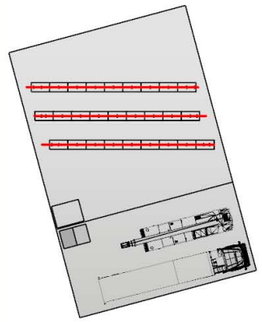


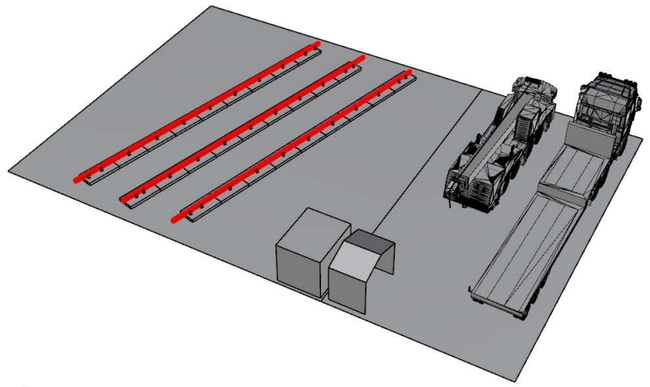


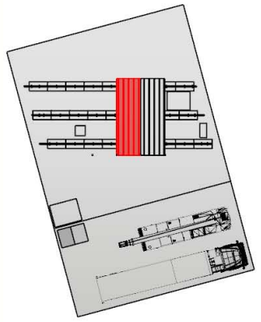


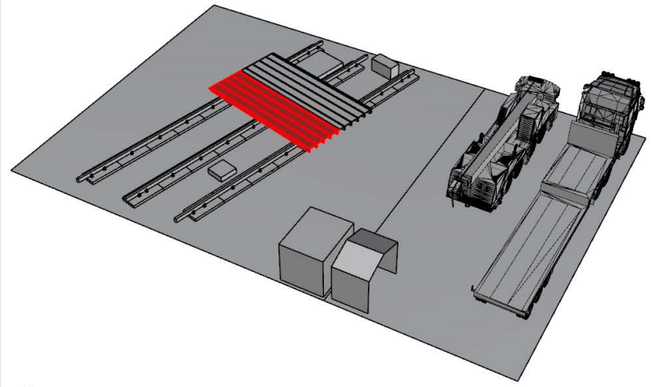


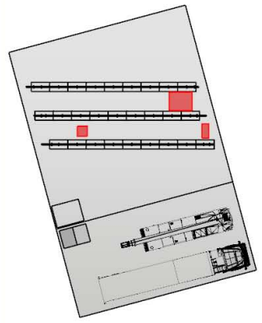
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY SETUP AND START FOUNDATION	Drawing Code: **S0-201**

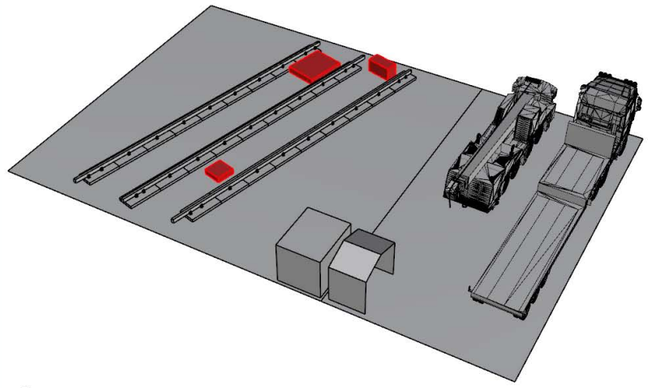


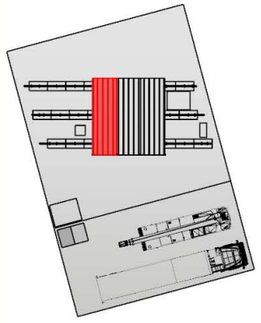


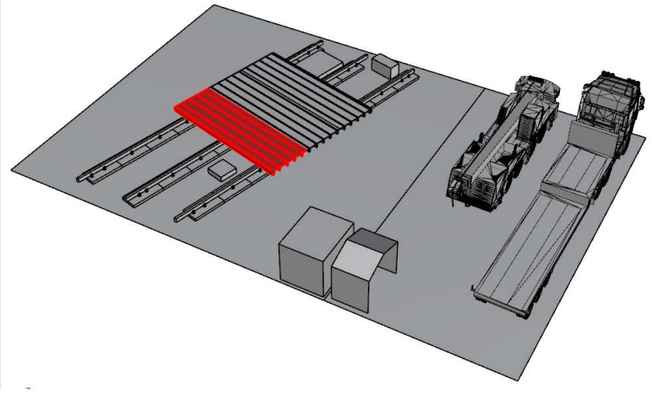


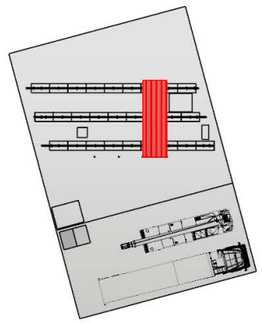


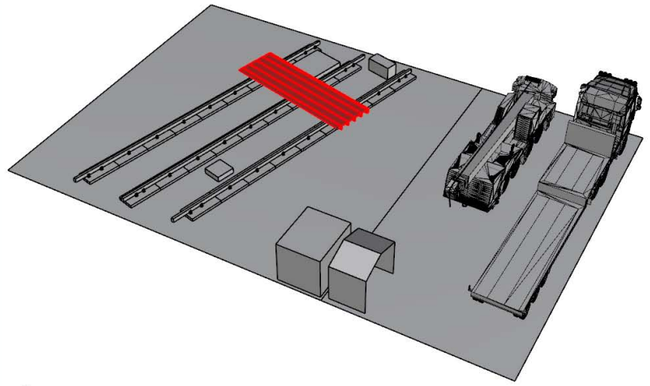


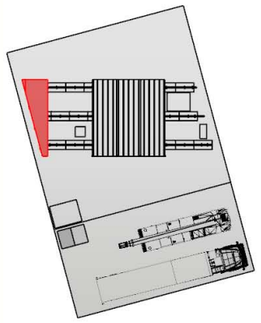


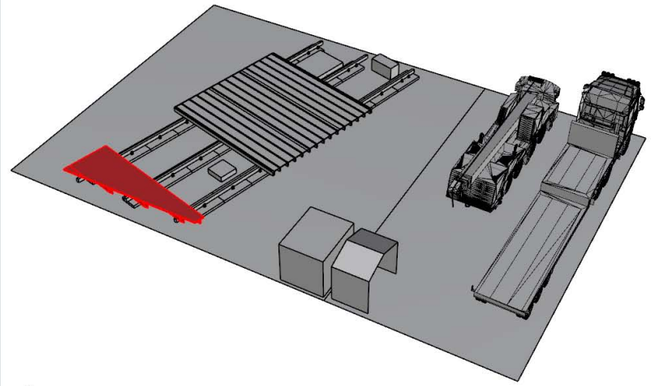




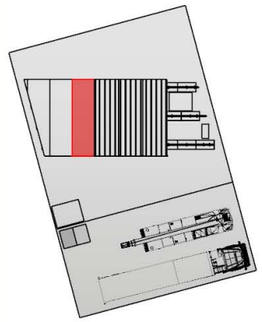


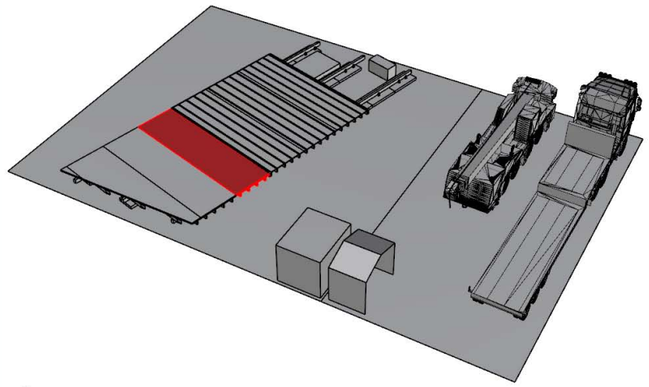


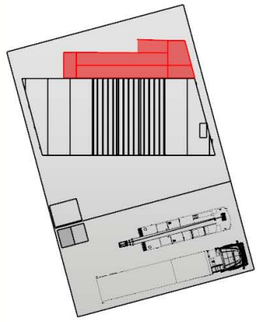


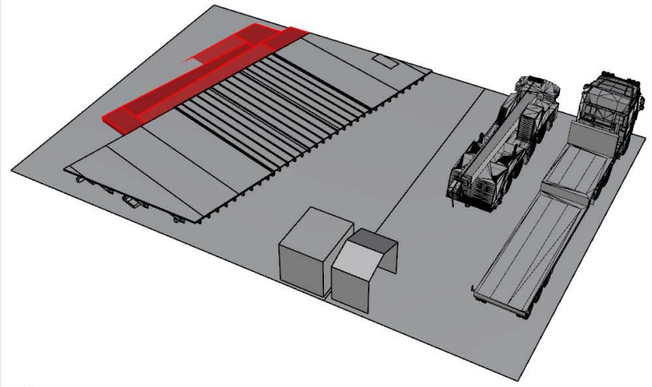


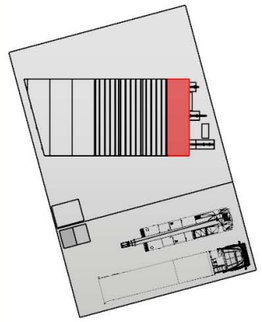
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY FOUNDATION	Drawing Code: **S0-202**

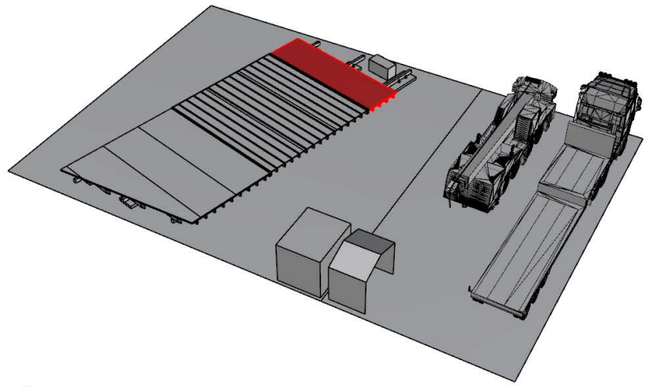


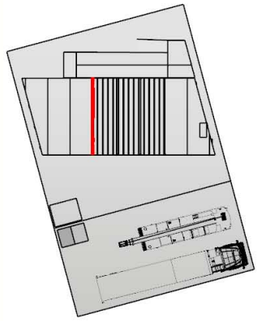


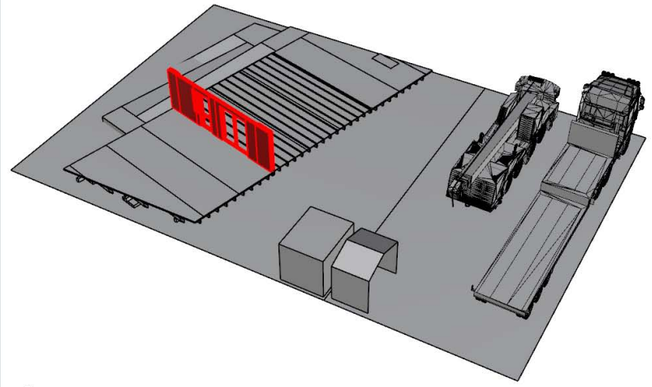


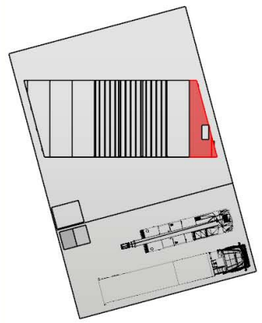


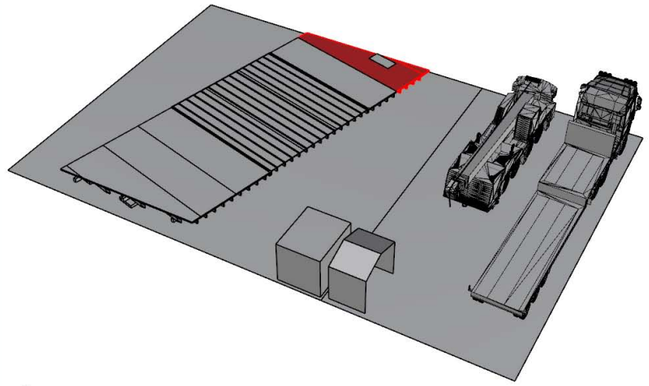


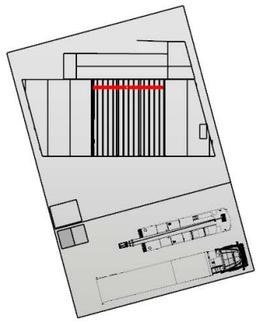


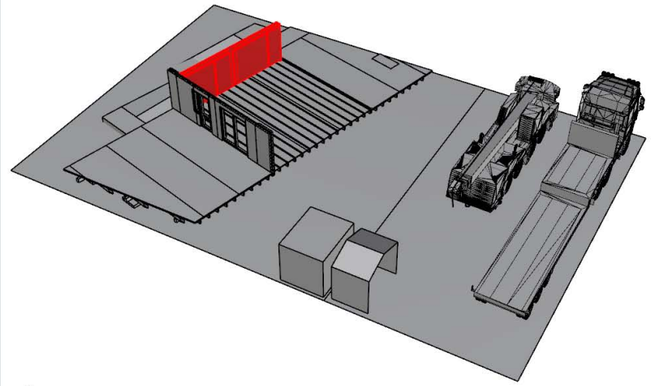




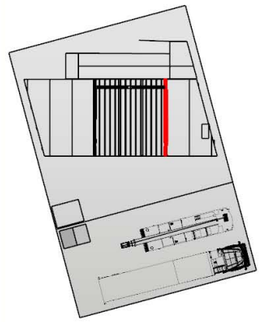


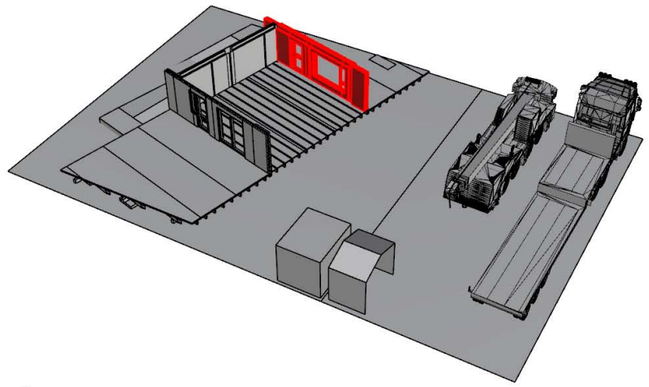


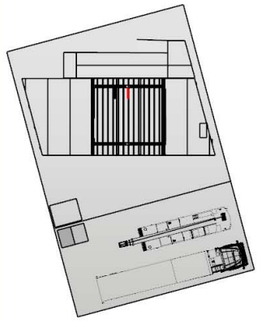


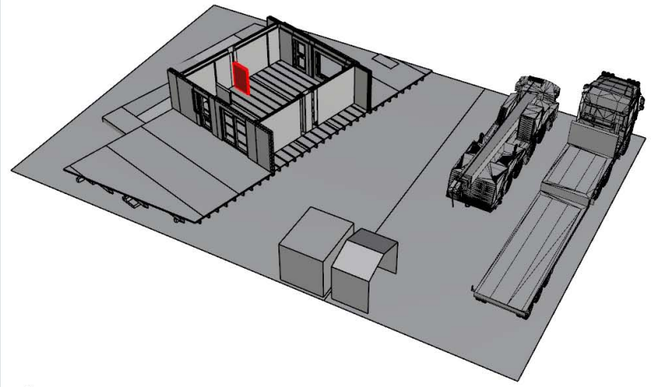


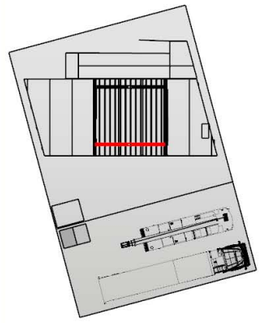
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY FOUNDATION AND WALLS	Drawing Code: **S0-203**

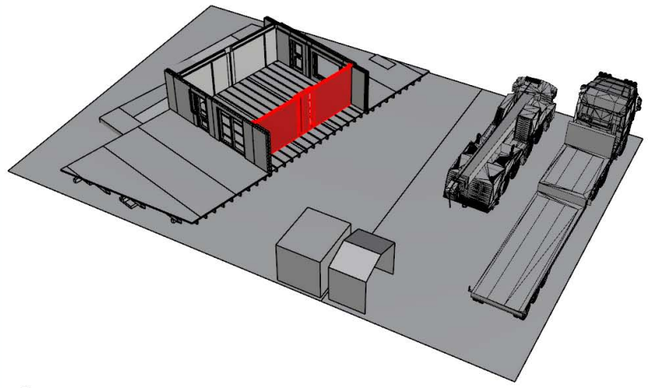


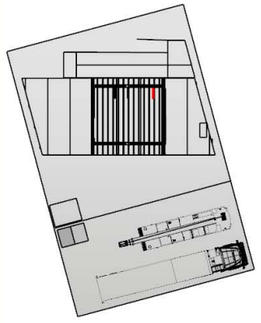


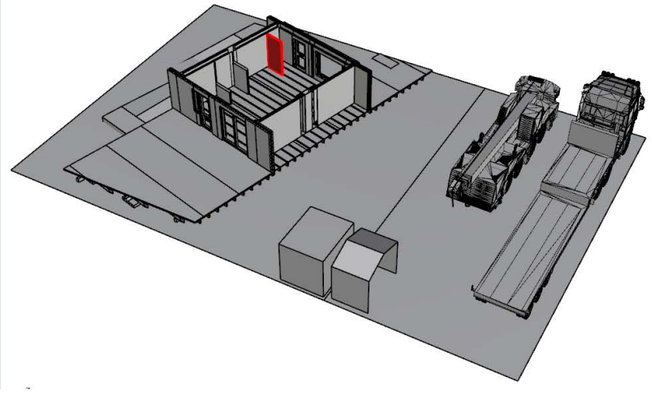


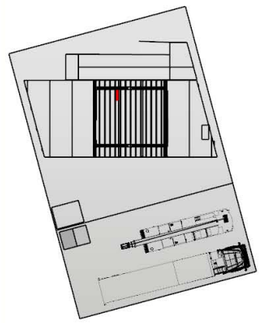


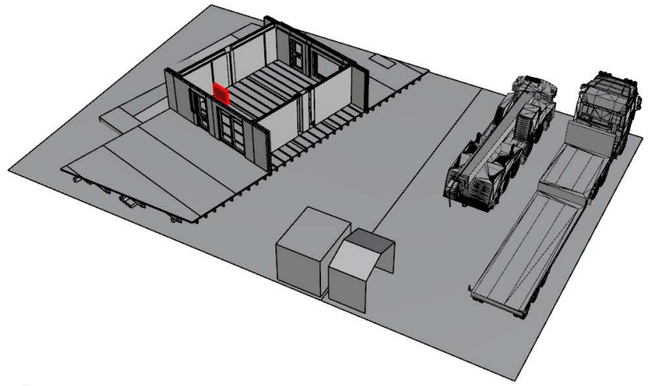


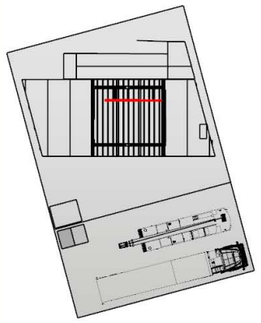


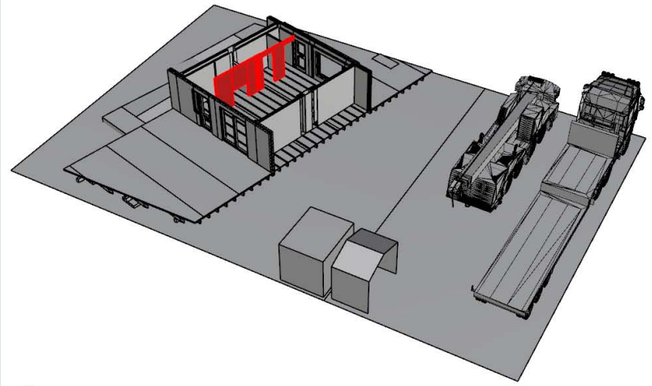




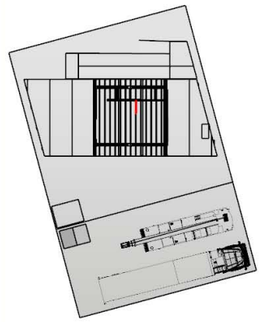


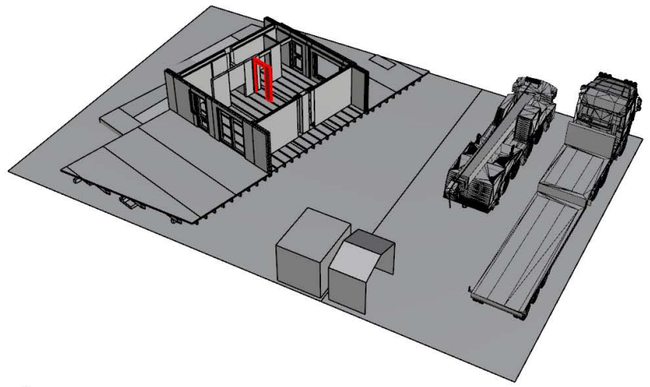


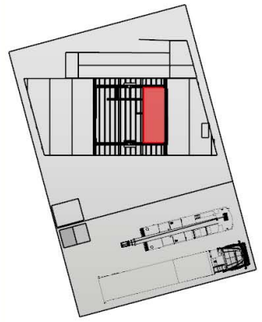


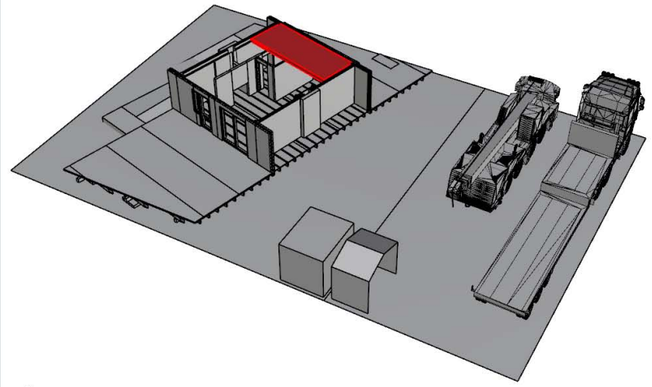


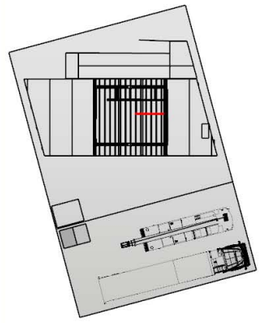
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY WALLS	Drawing Code: **S0-204**

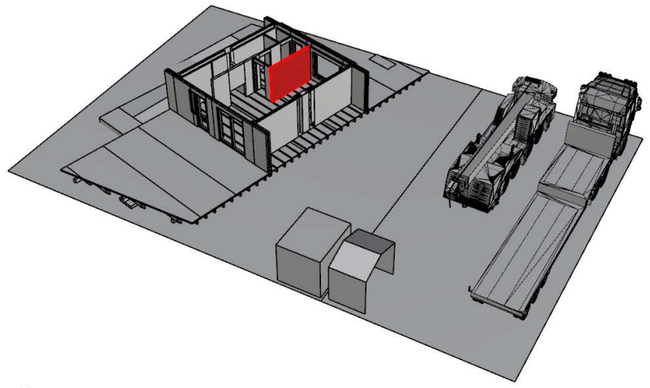


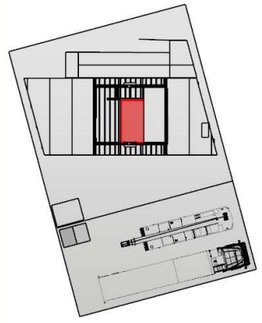


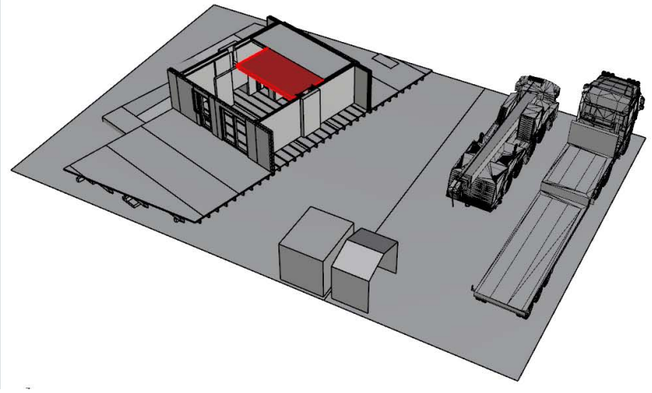


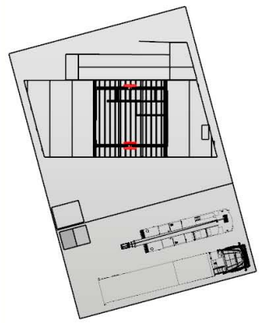


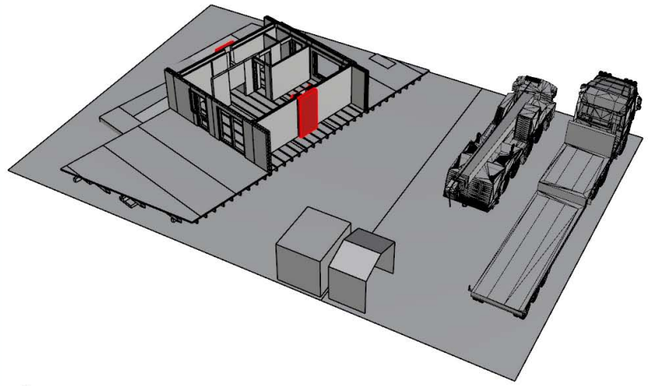


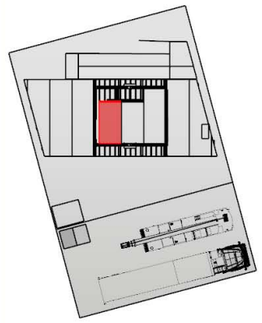


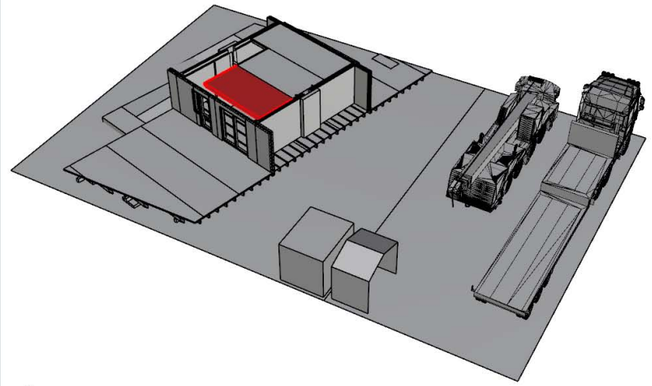




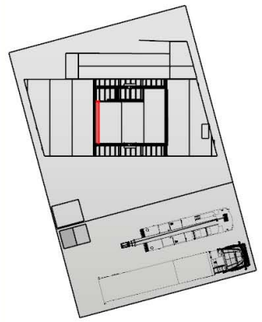


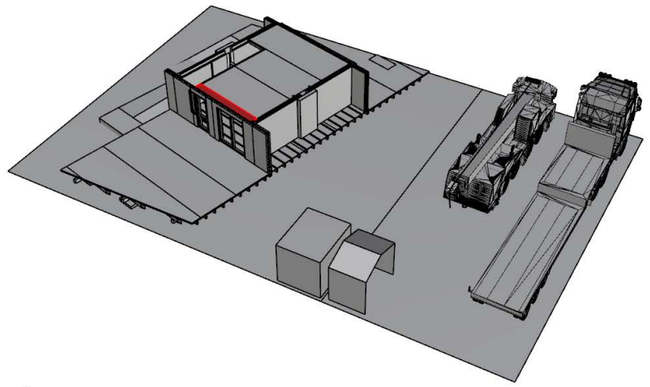


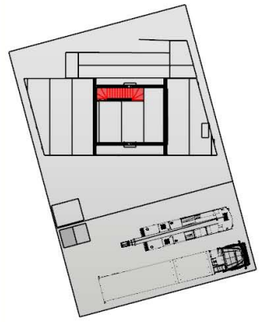


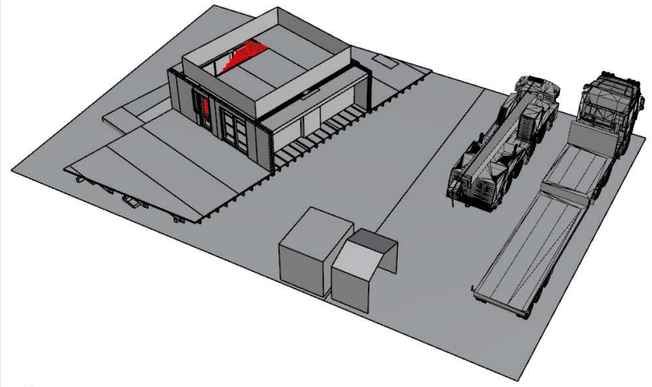


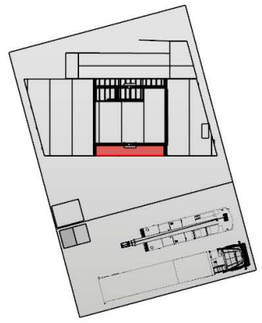
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY WALLS	Drawing Code: **S0-205**

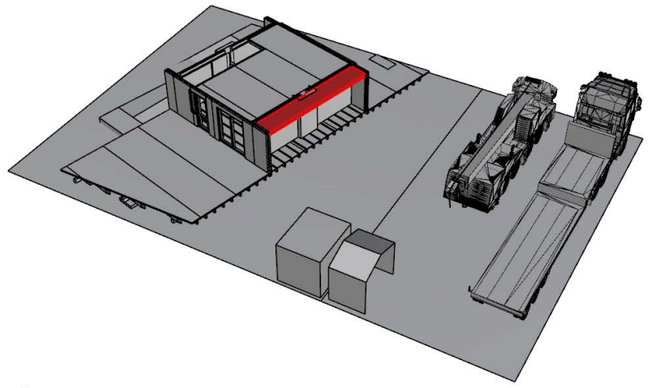


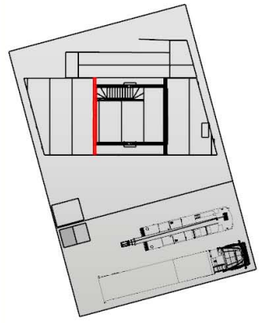


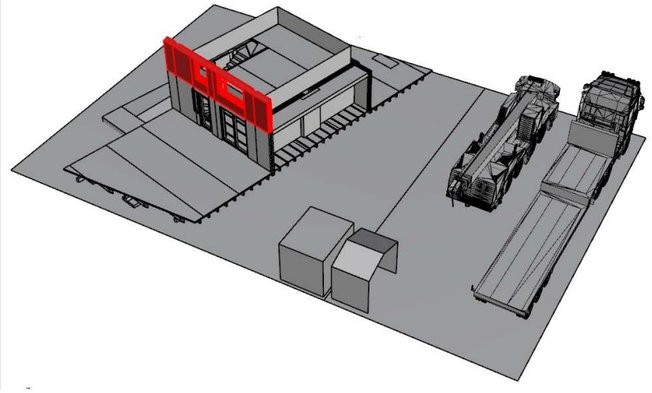


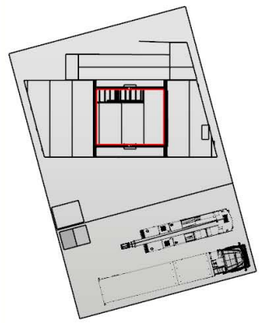


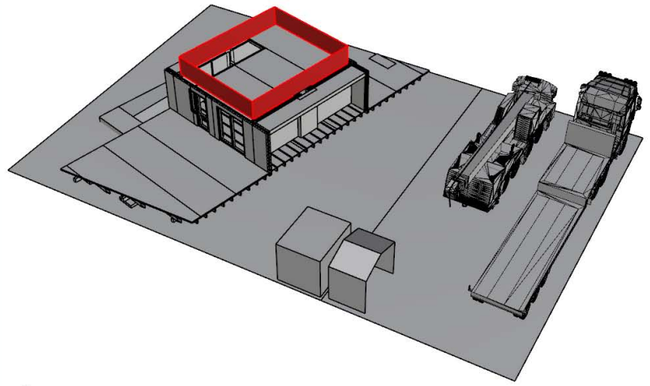


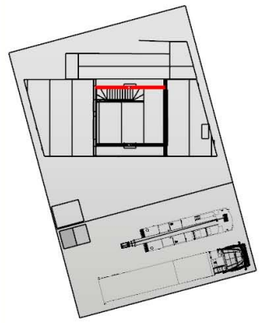


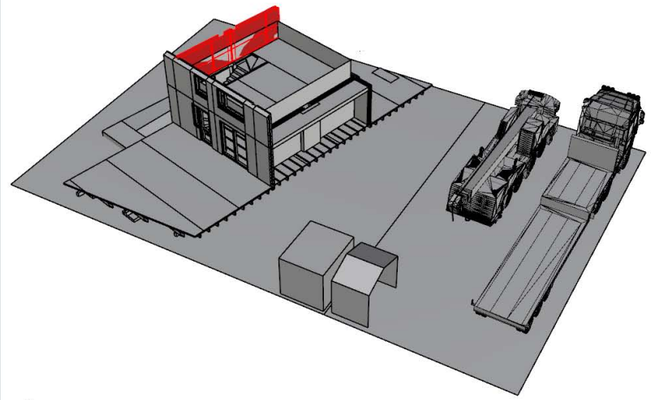








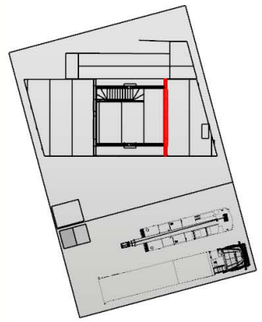


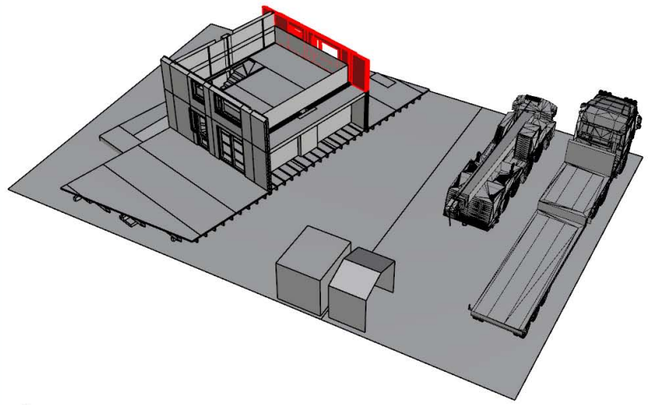


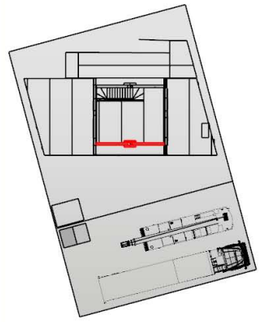
Awarding Institution	Suporting Institution
Solar Decathlon Europe 2014	TU Delft
Contestant	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

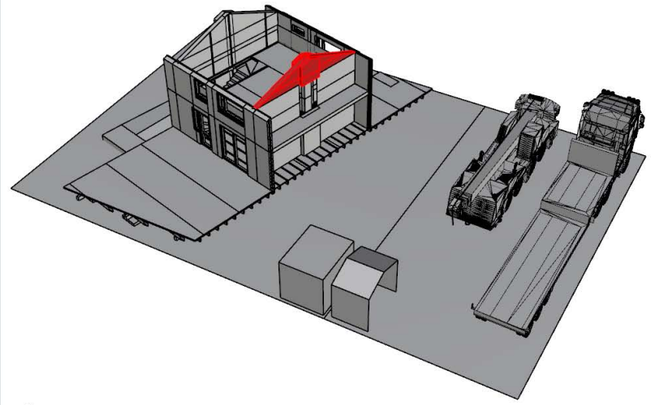
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	SITE OPERATIONS
Drawing Subject	ASSEMBLY FLOOR STAIRS WALLS

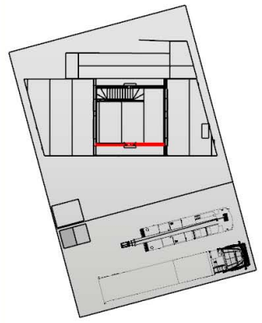
Revisions		
4		
3		
2		
1	20.04.2014	Del. 5
Paper Size	A3	
Drawing Scale	n/a	
Drawing Code	S0-206	

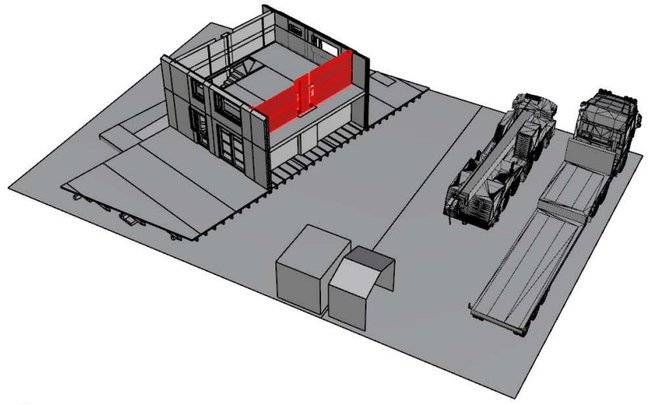


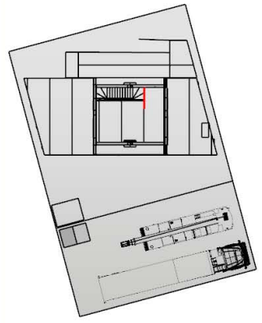


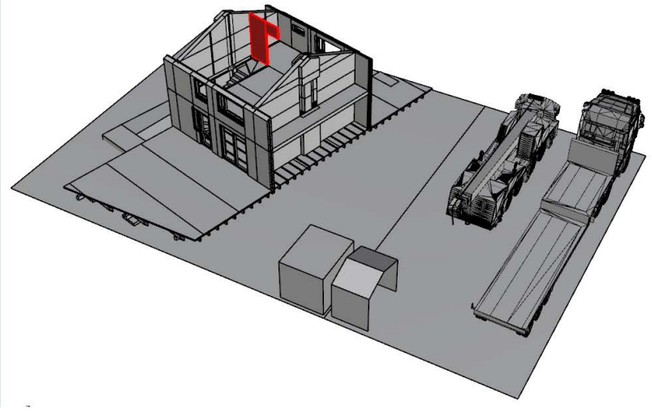


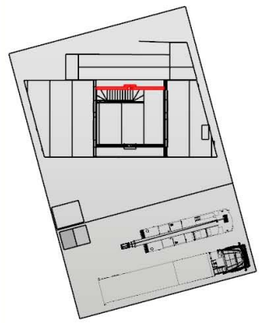


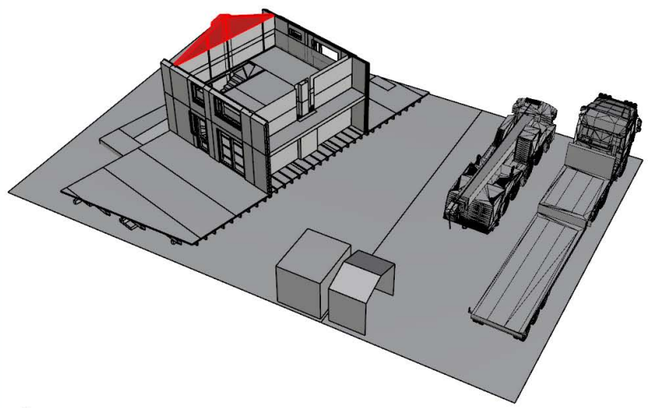


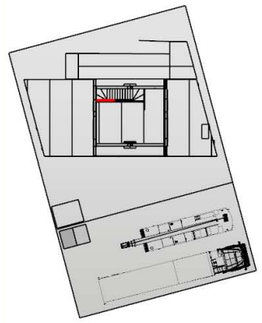


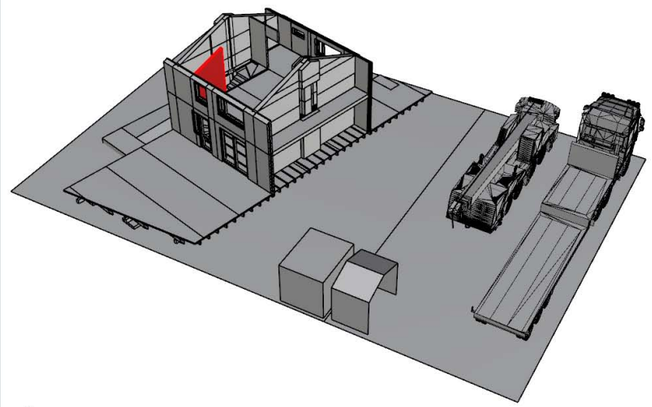




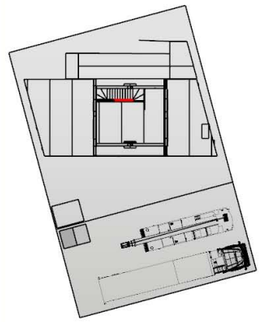


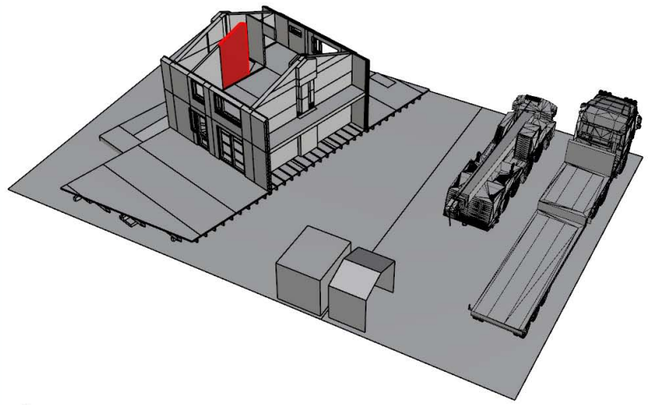


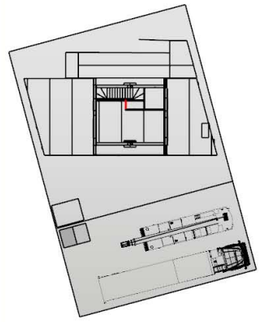


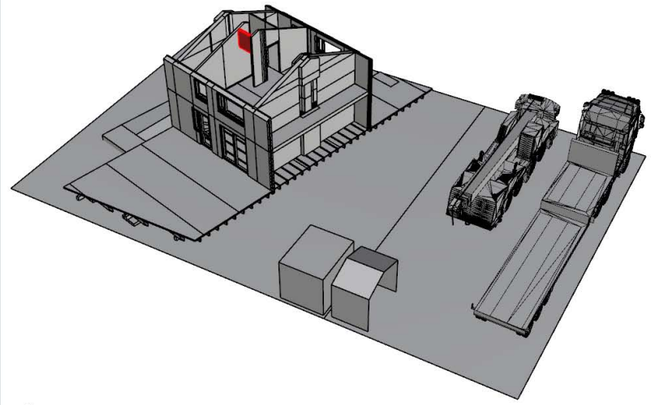


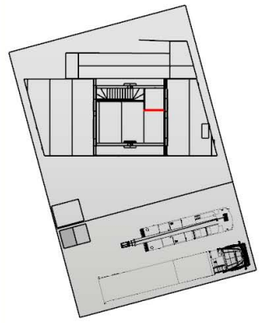
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY WALLS	Drawing Code: **S0-207**

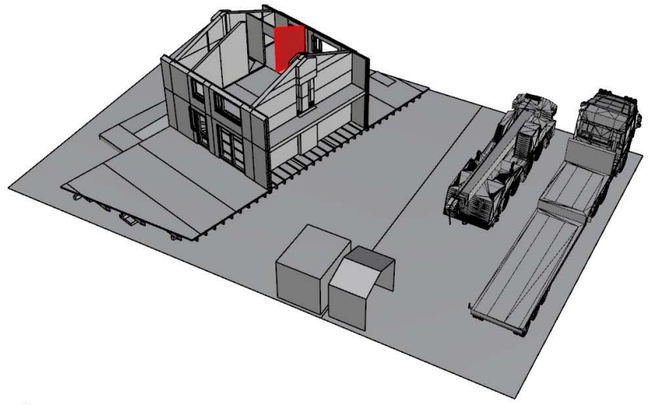


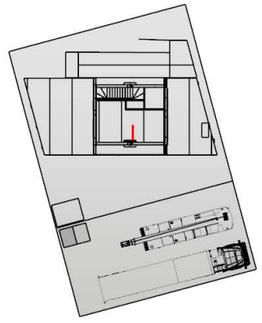


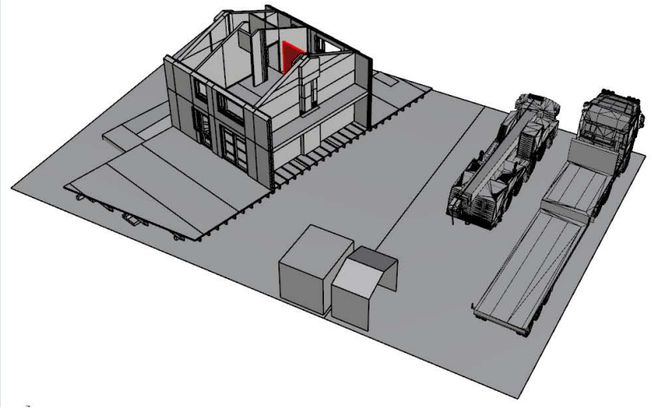


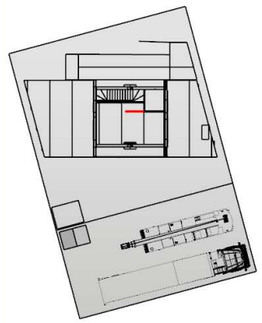


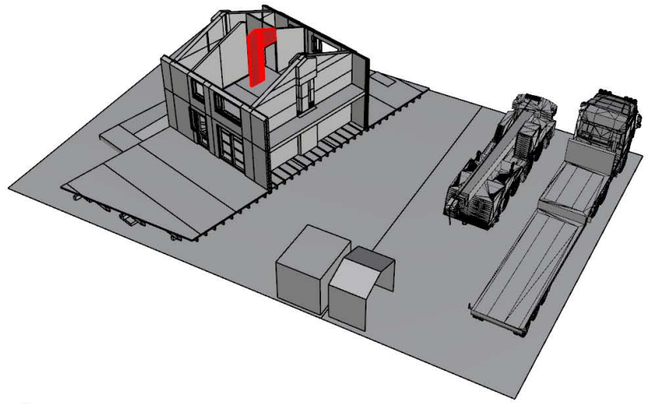


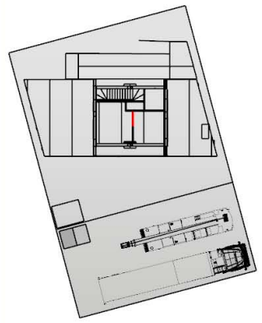


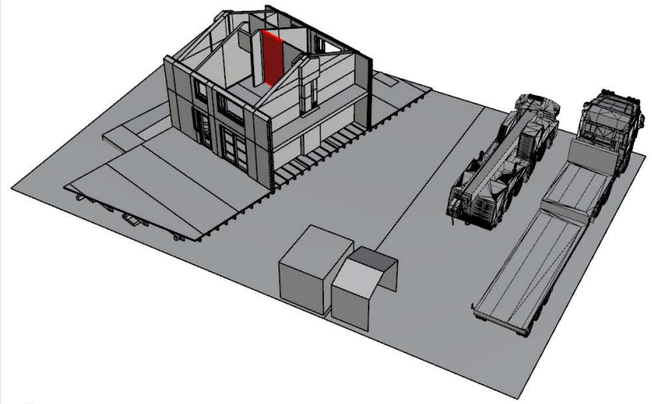




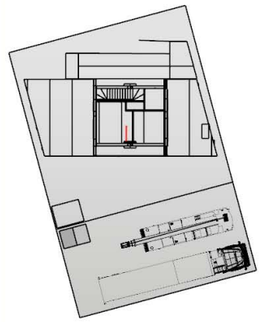


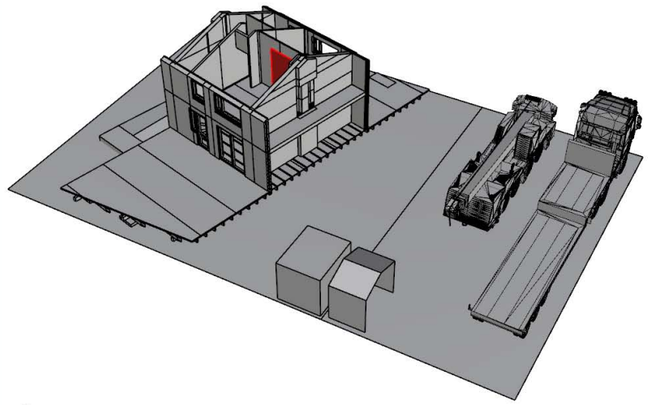


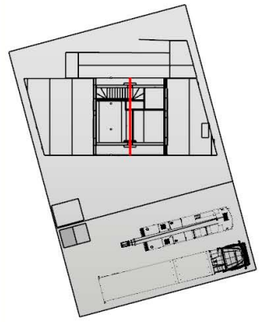


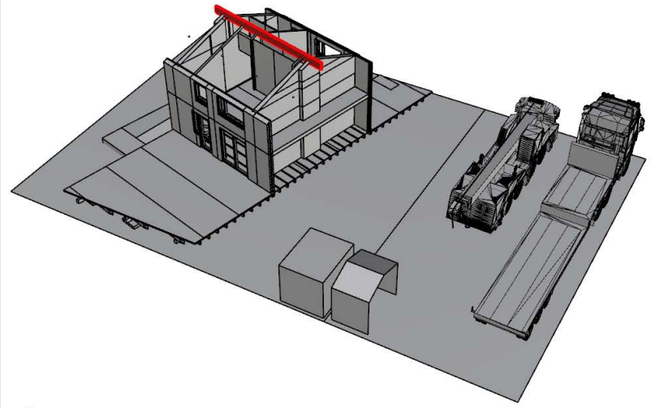


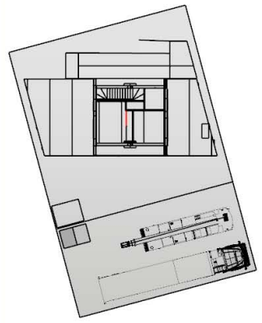
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY WALLS	Drawing Code: **S0-208**

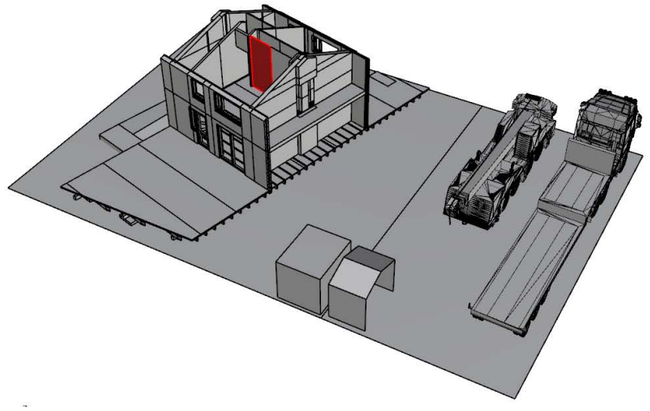


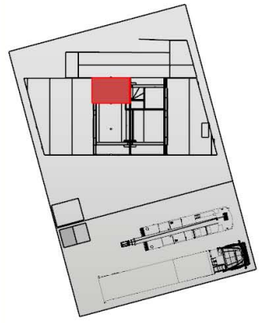


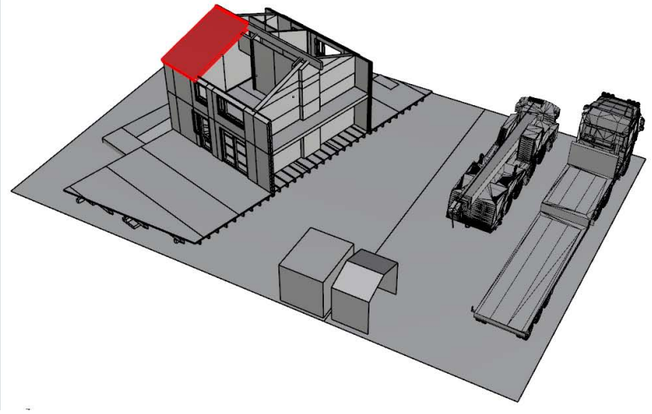


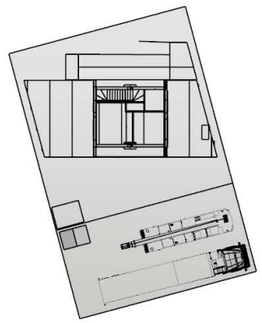


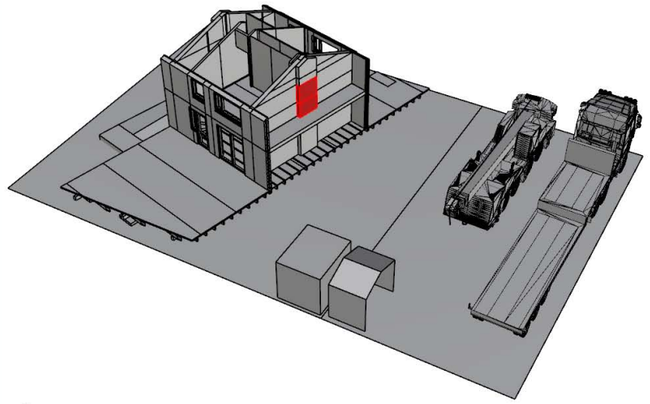


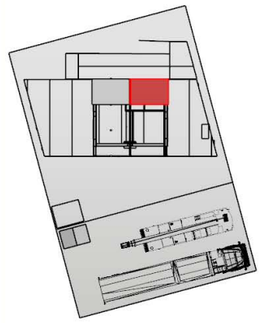


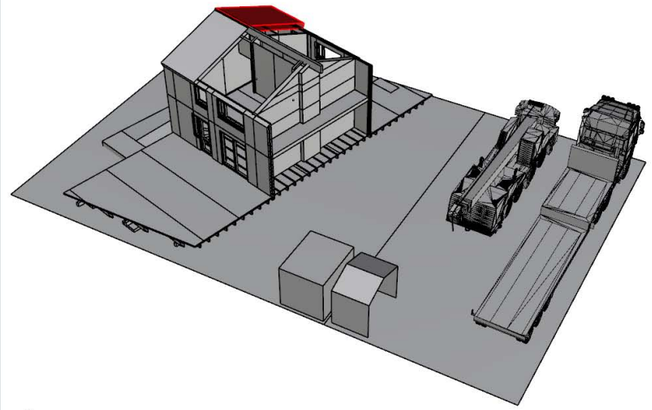




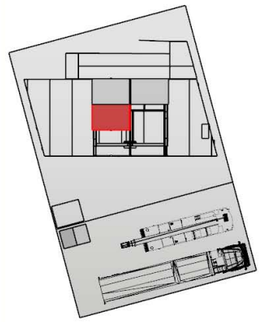


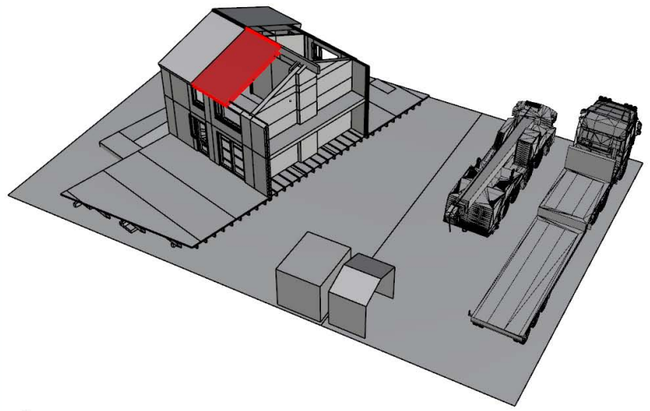


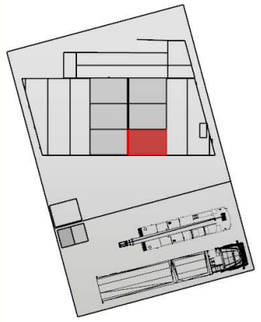


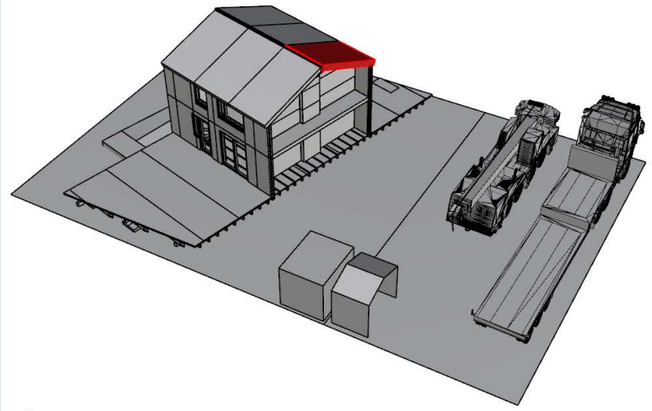


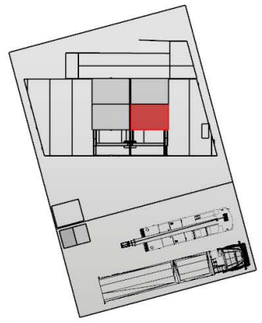
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY WALLS ROOF	Drawing Code: **S0-209**

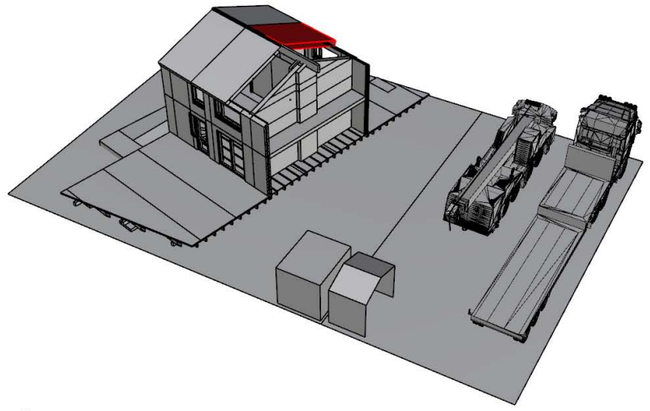


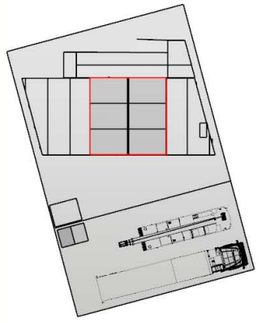


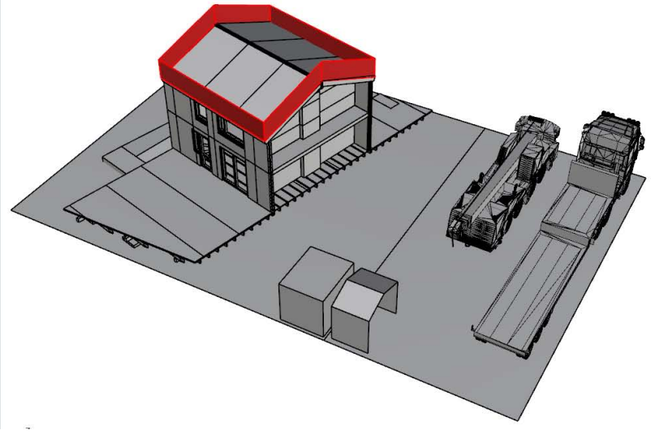


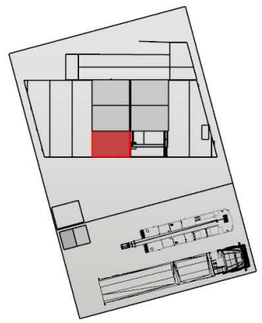


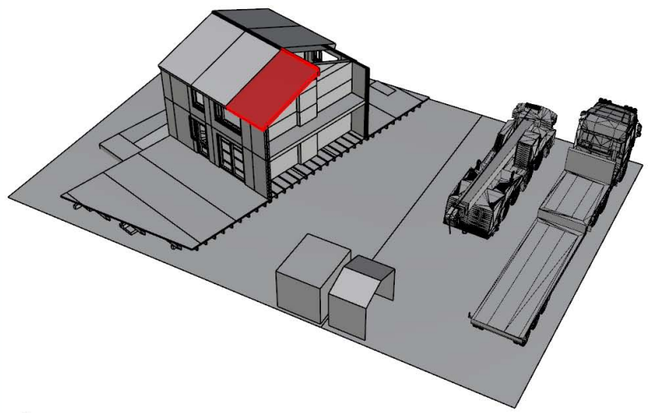


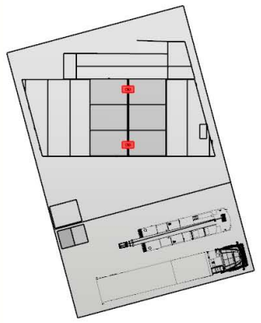


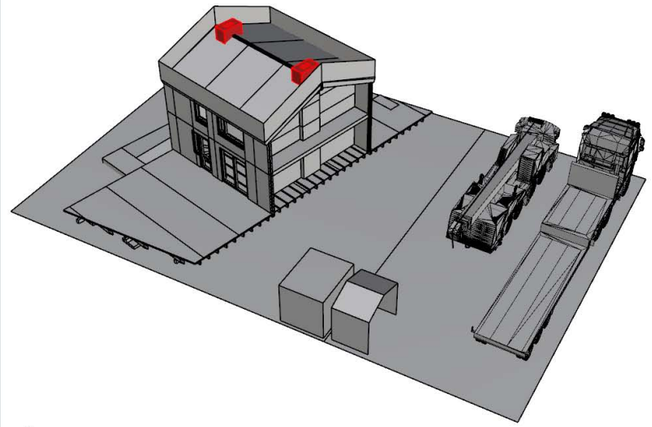




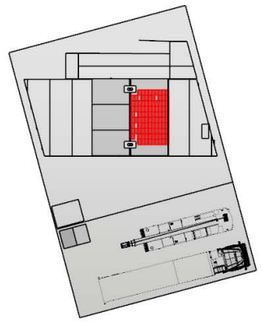


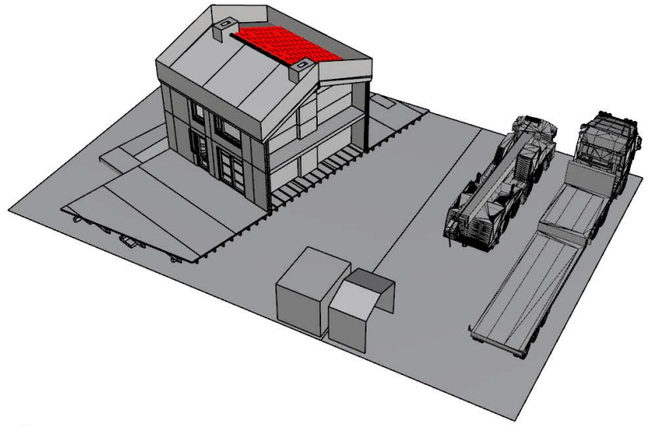


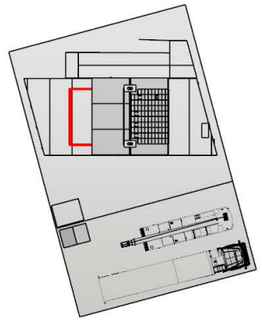


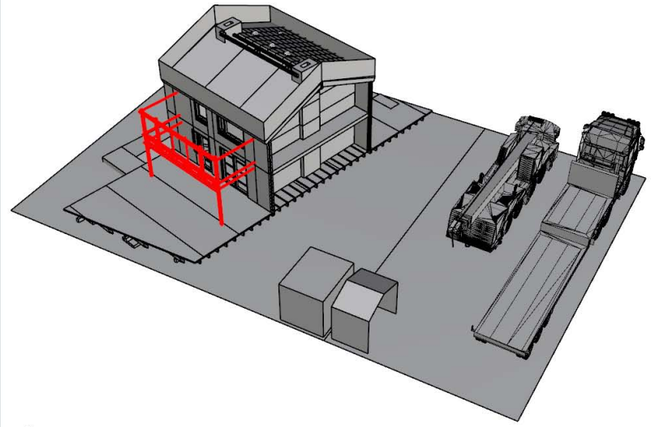


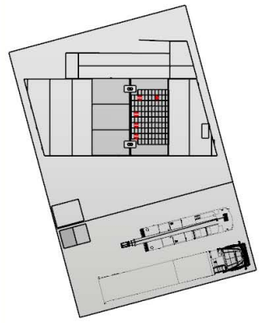
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY ROOF	Drawing Code: **S0-210**

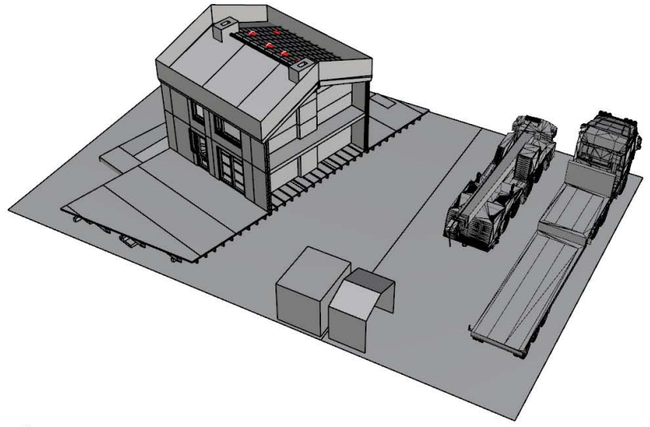


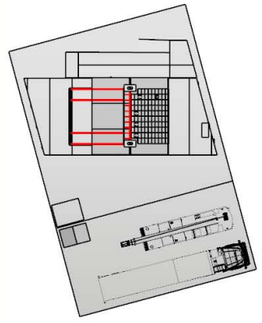


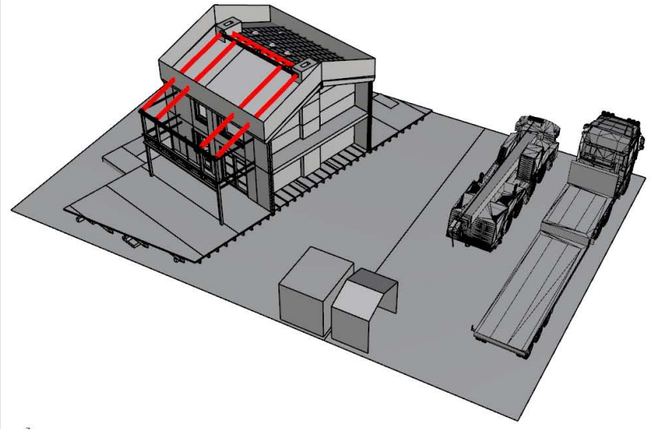


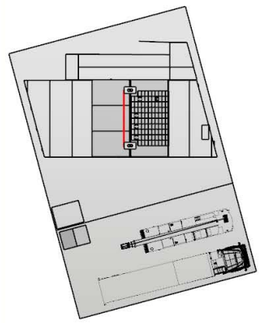


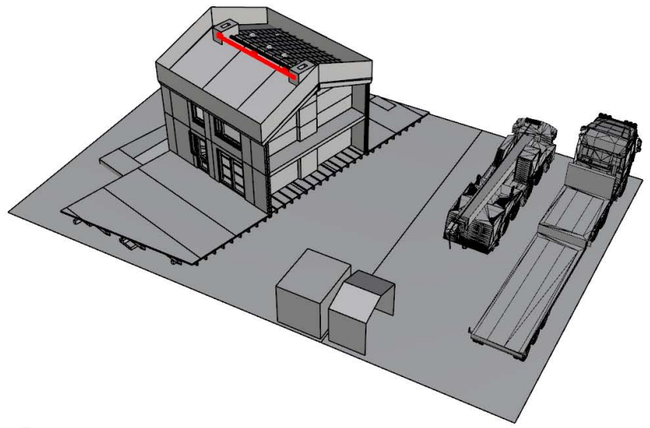


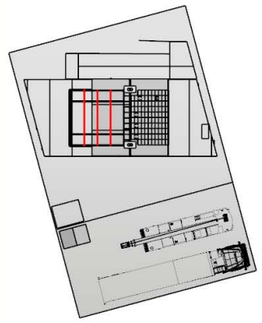


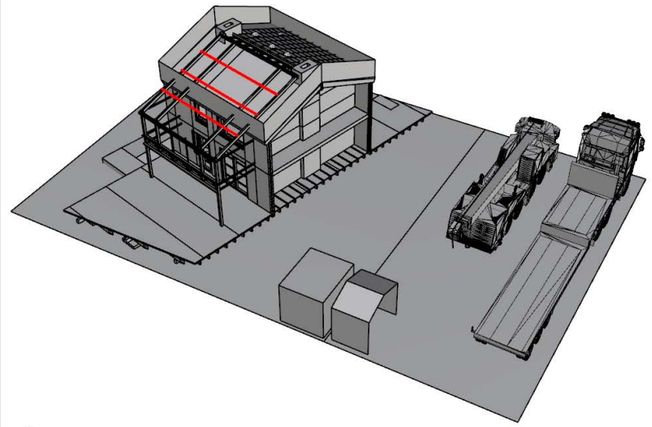




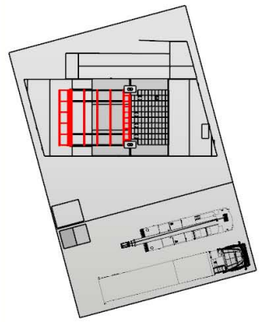


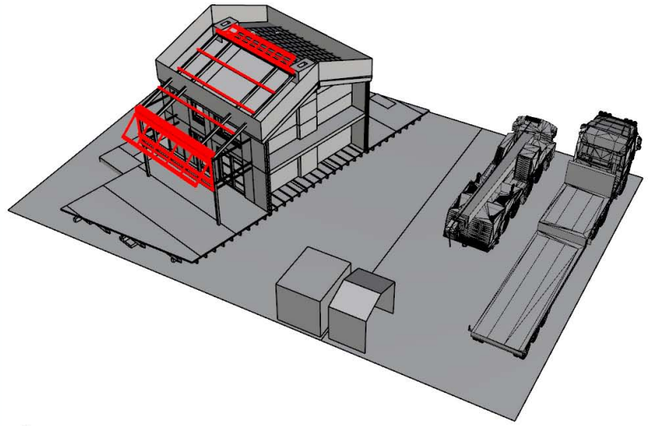


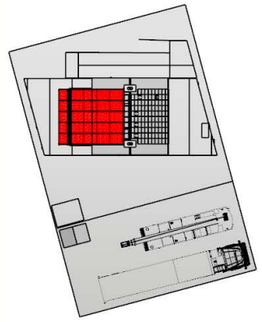


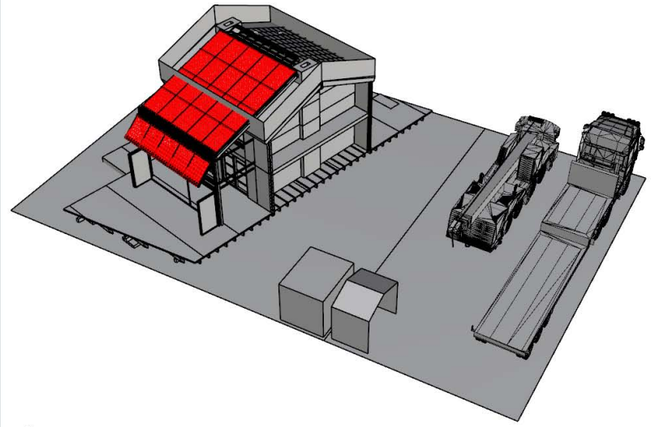


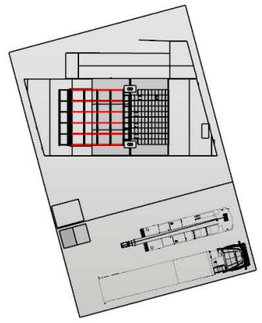
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY ROOF FRAME	Drawing Code: **S0-211**

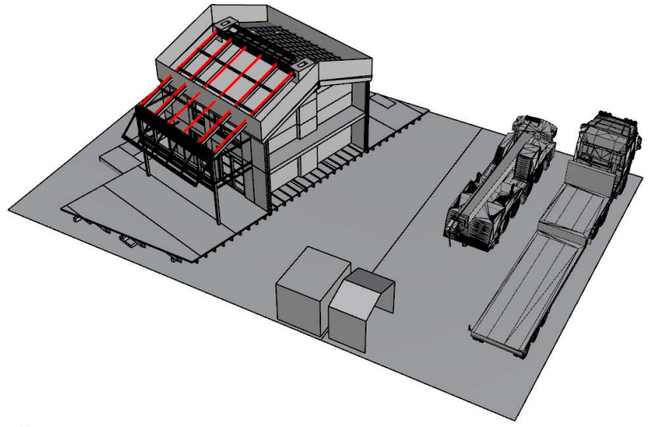


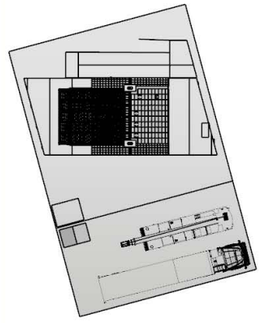


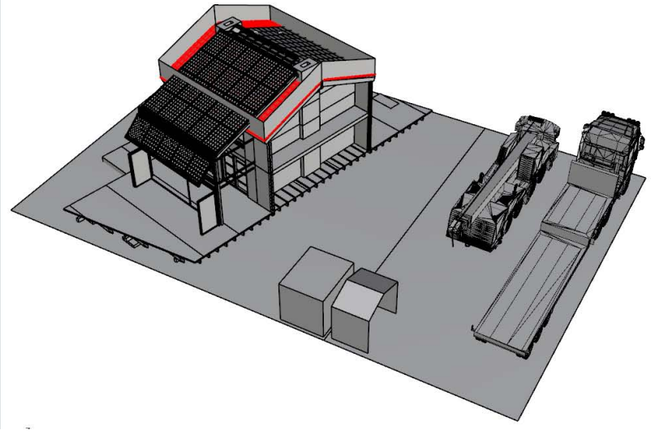


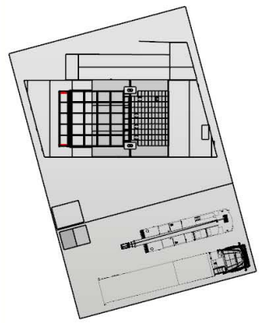


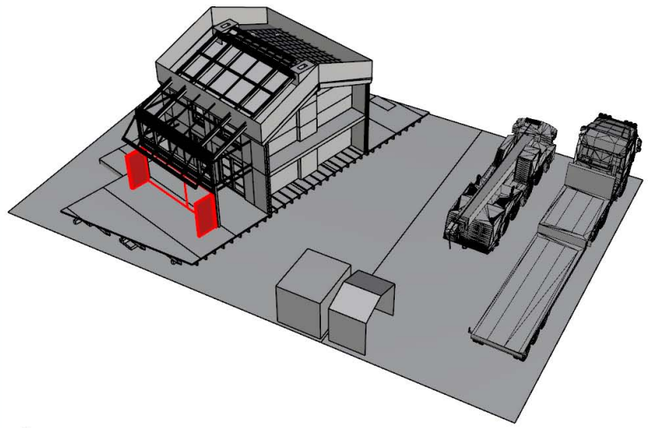


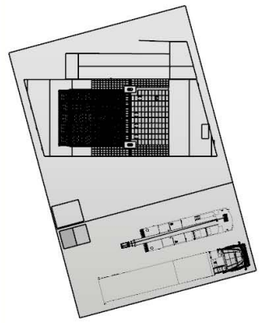


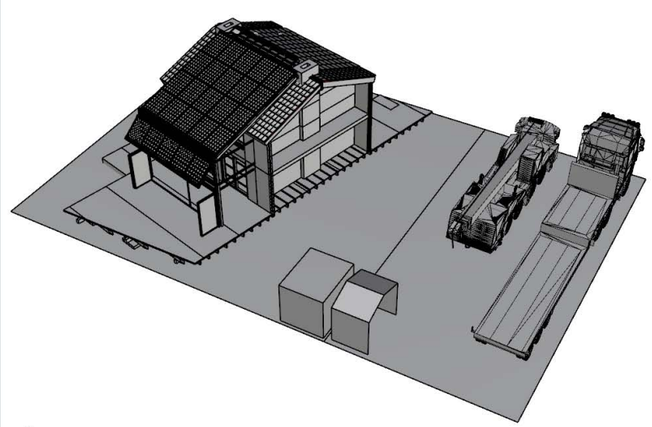




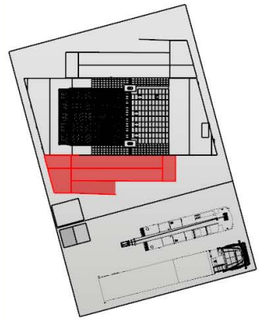


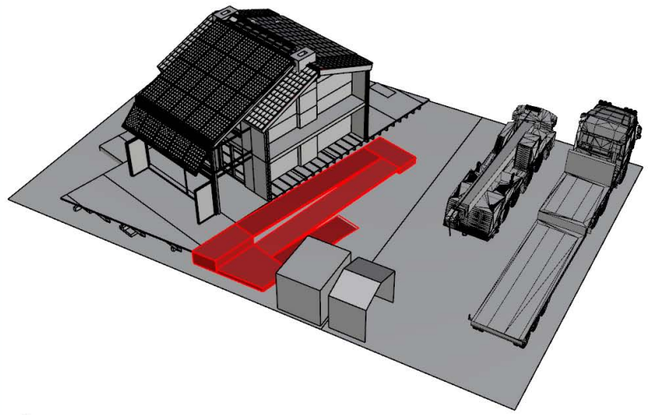


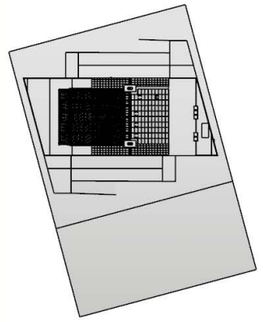


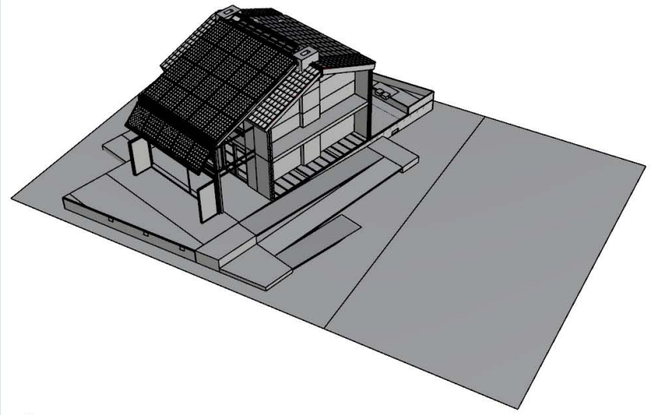


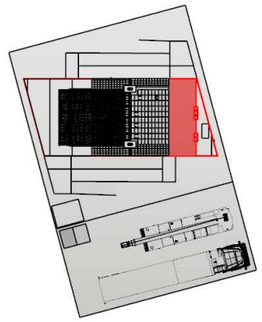
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY FRAME	Drawing Code: **S0-212**

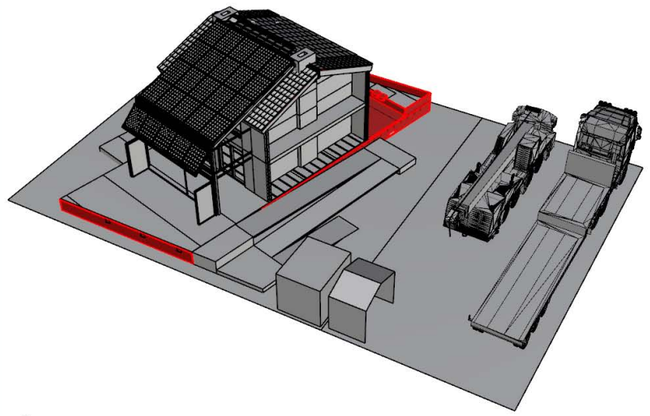


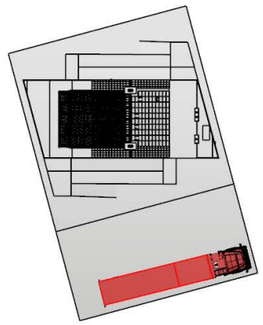


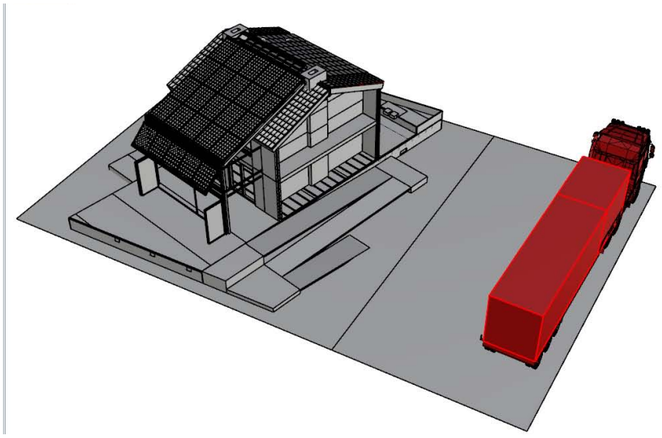


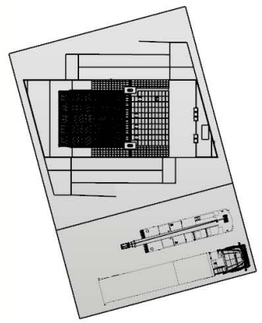


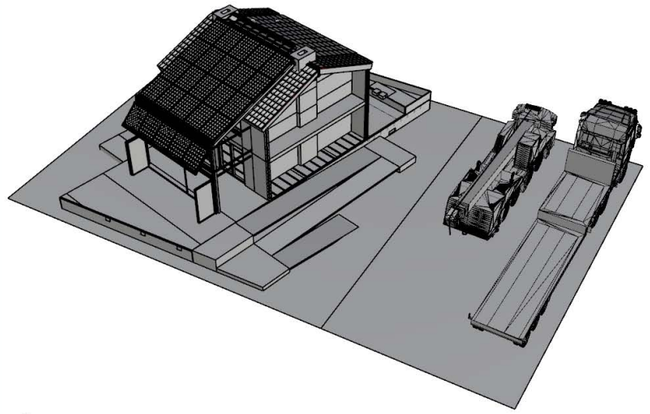




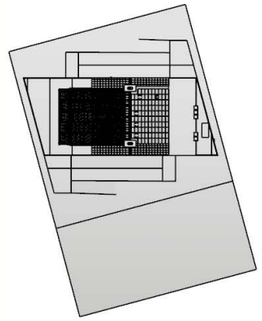


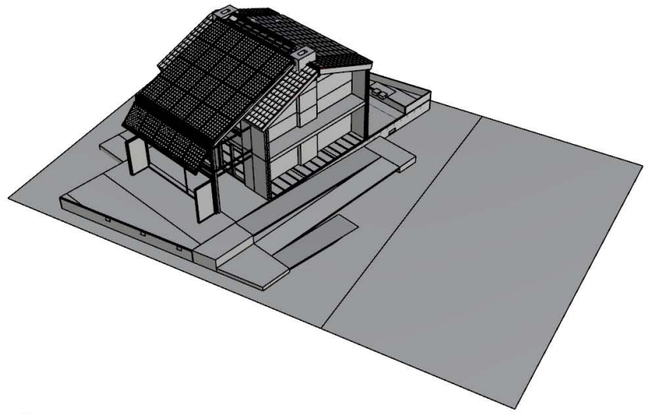


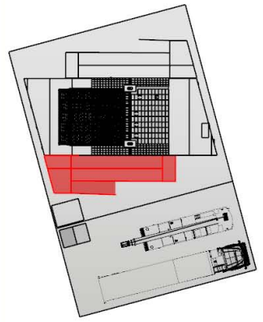


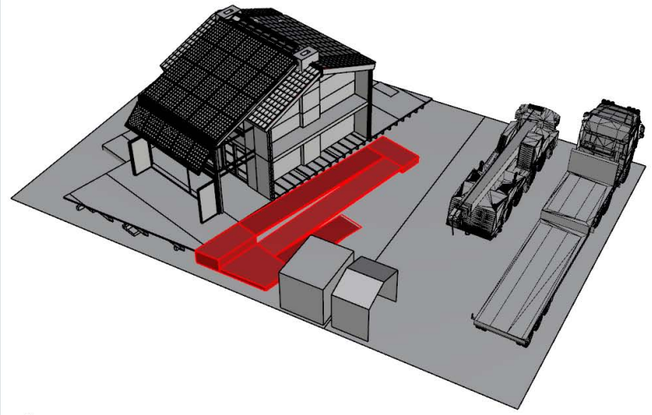


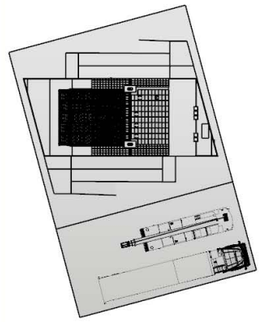
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY RAMPS CLEARING	Drawing Code: **S0-213**

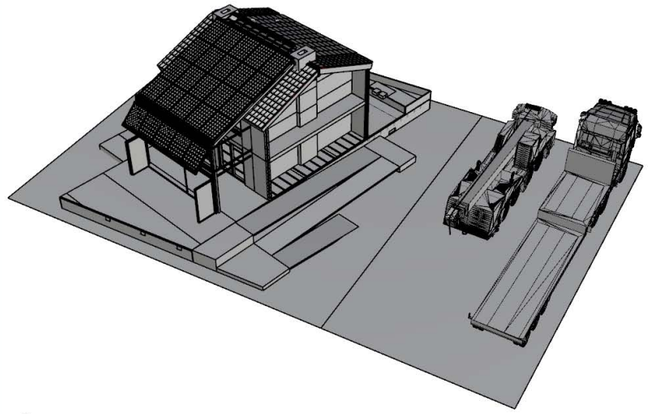


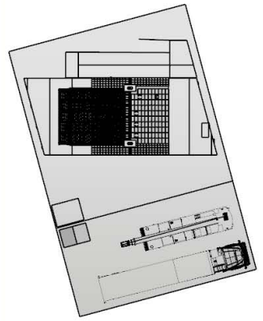


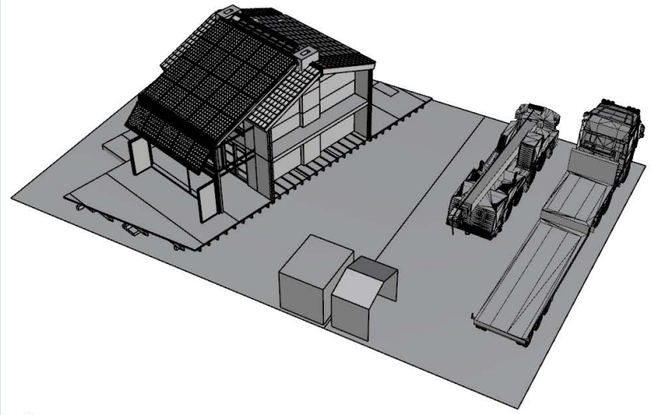


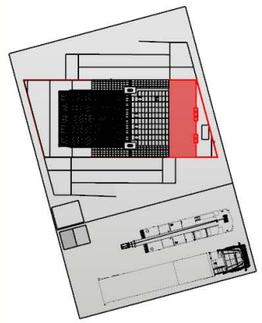


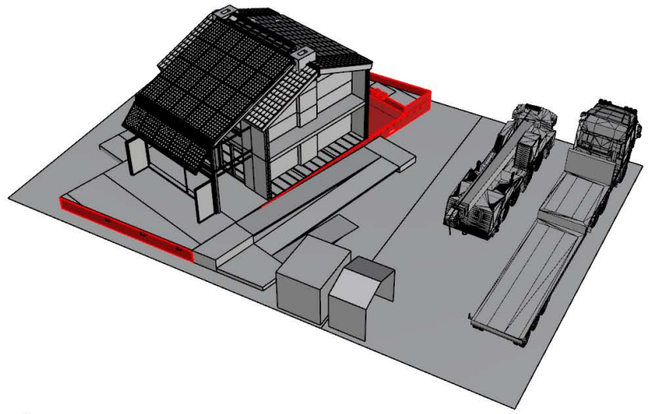


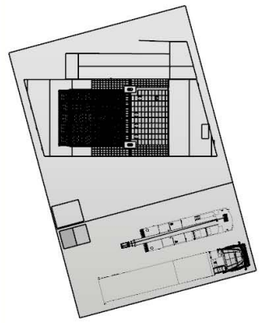


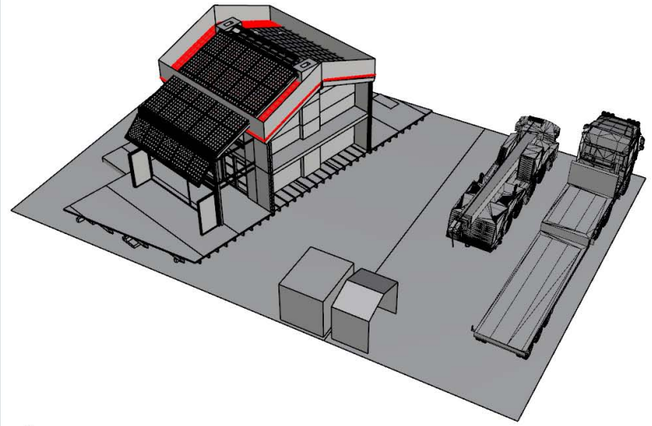




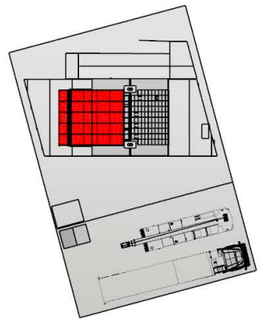


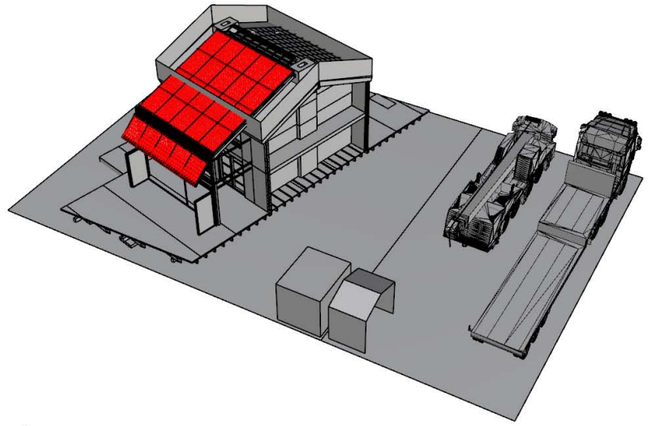


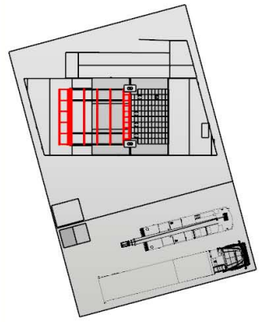


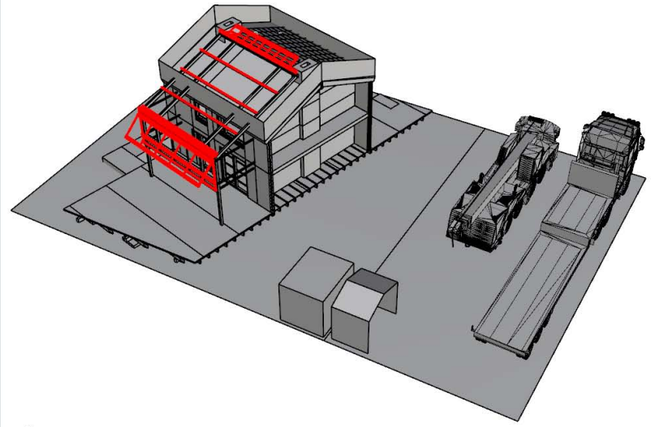


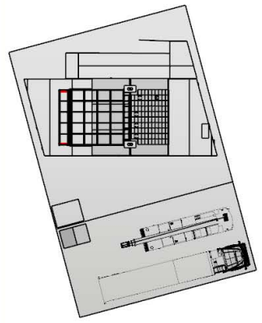
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY SETUP AND ROOF	Drawing Code: **S0-214**

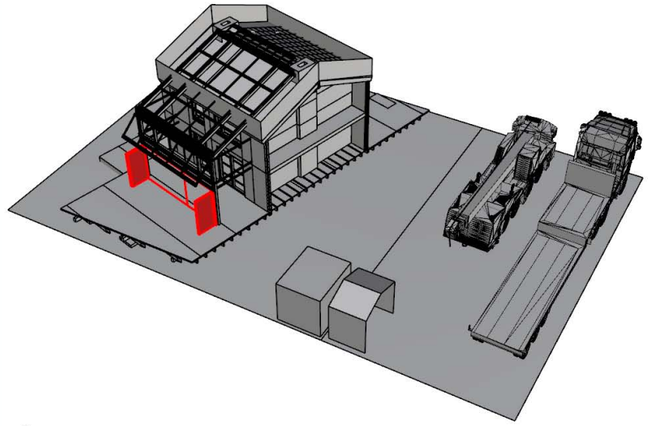


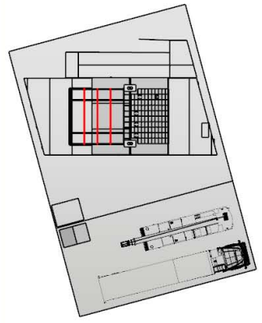


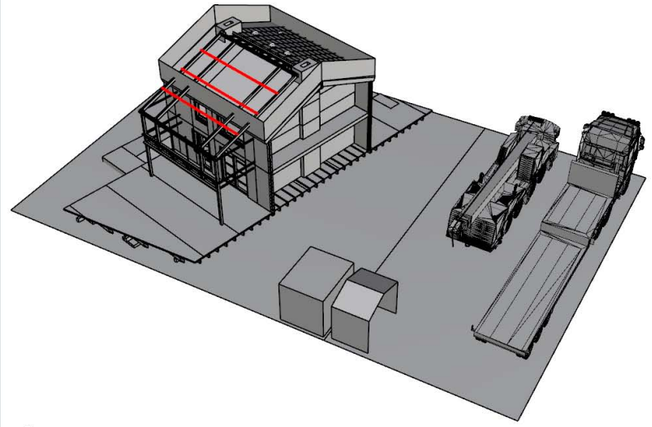


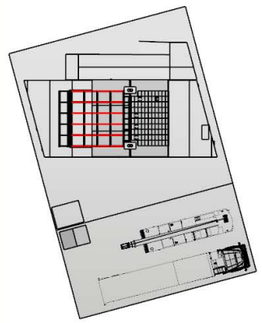


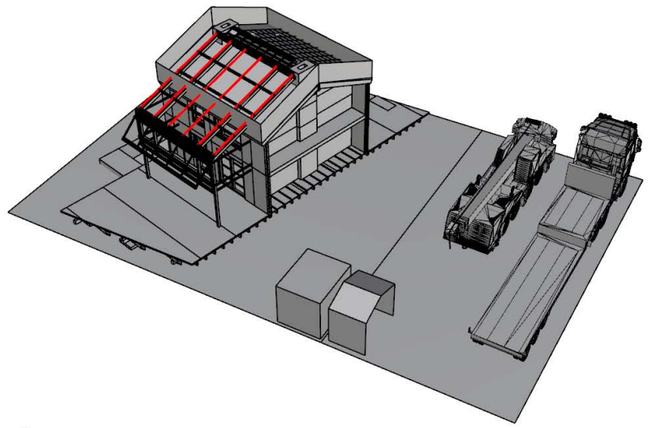


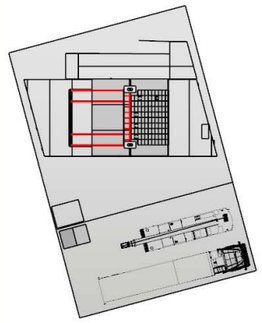


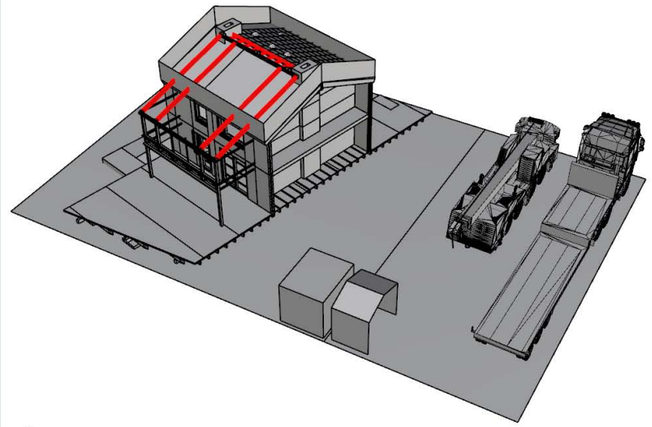




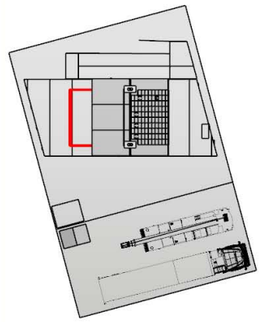


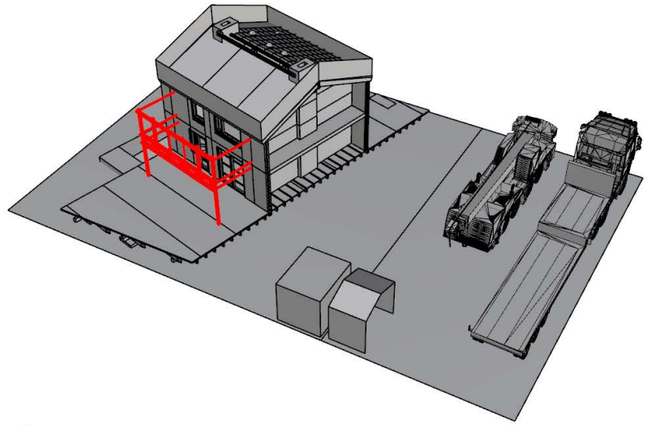


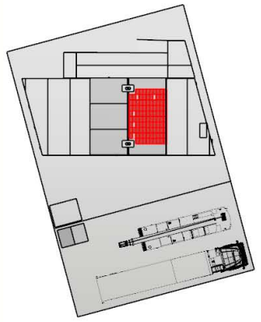


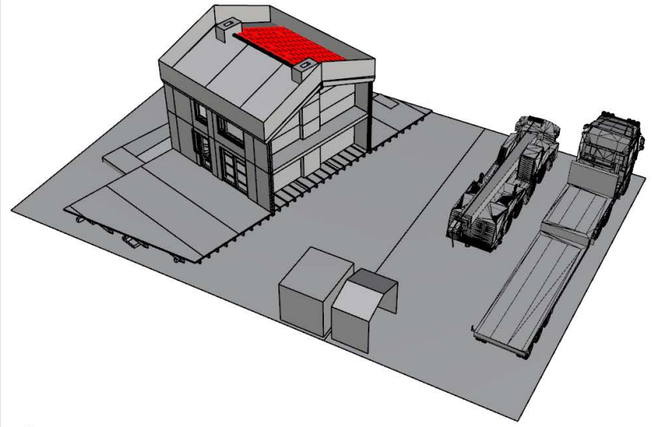


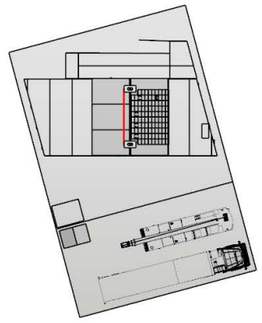
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY SKIN	Drawing Code: **S0-215**

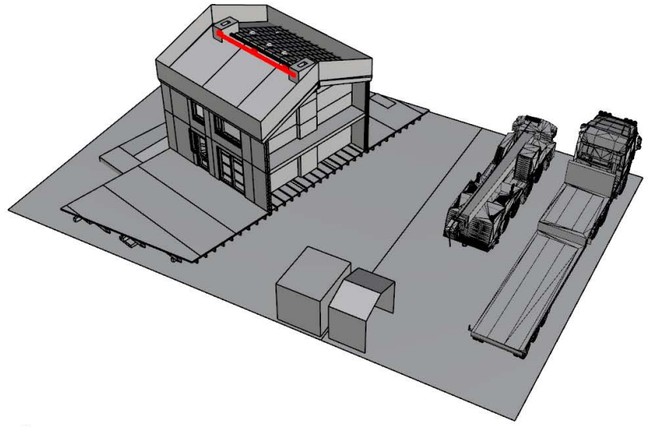


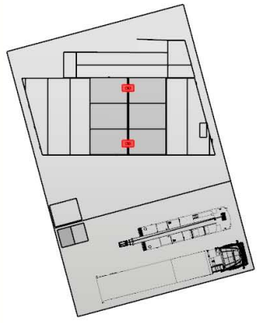


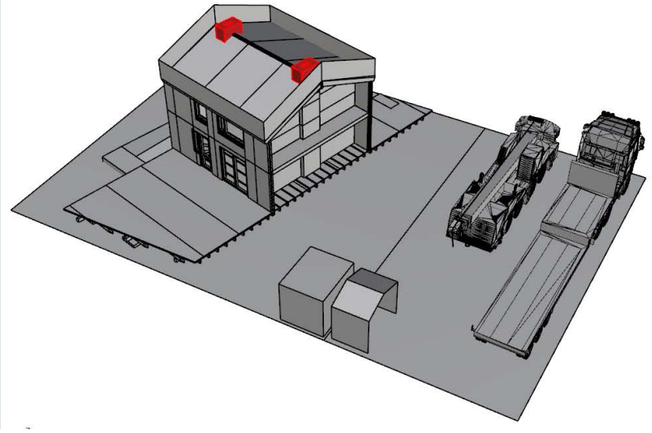


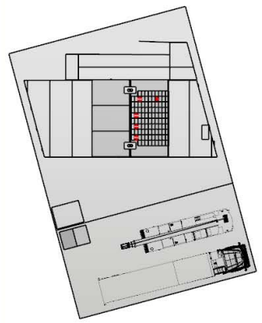


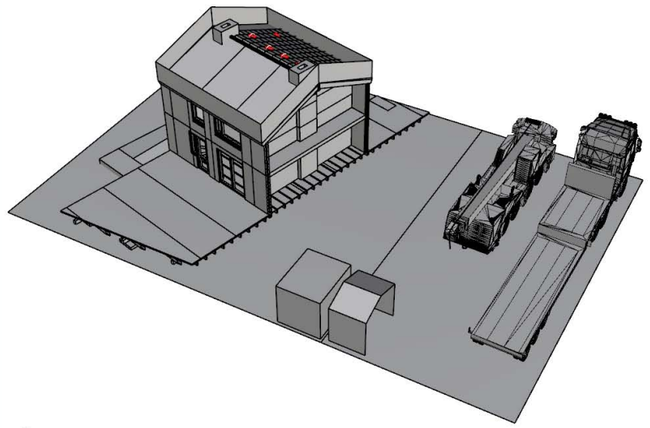


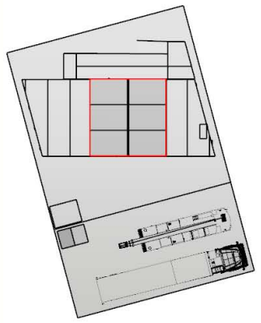


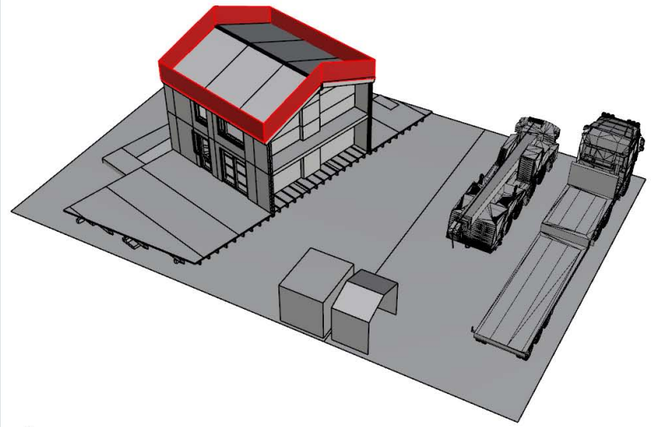




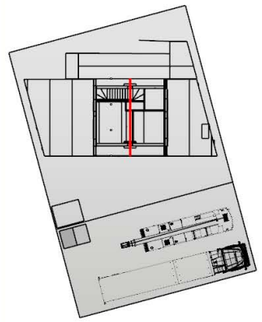


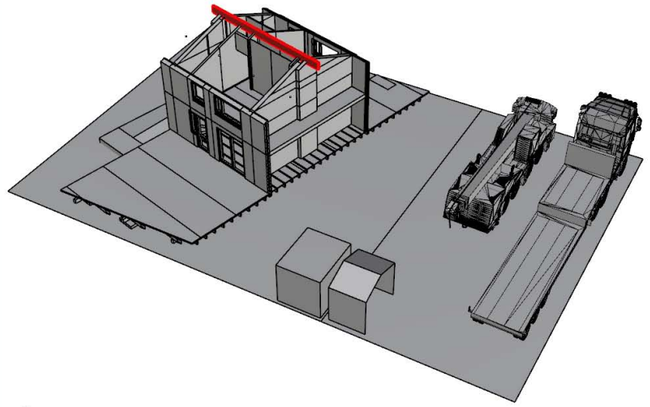


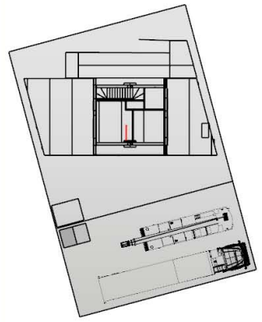


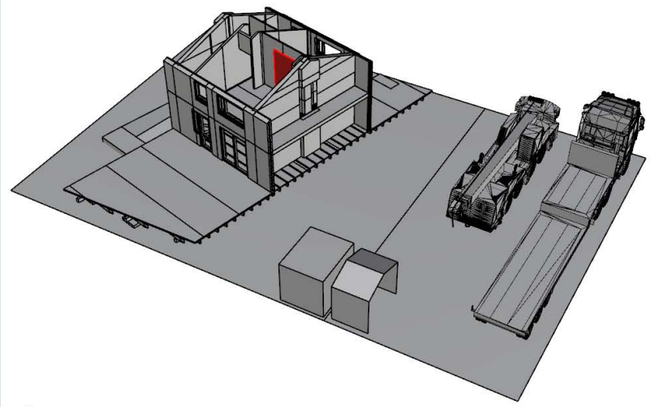


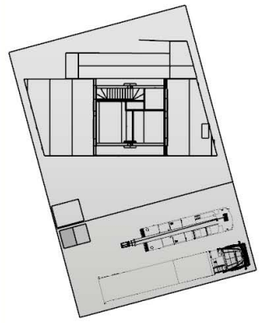
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY SKIN AND ROOF	Drawing Code: **S0-216**

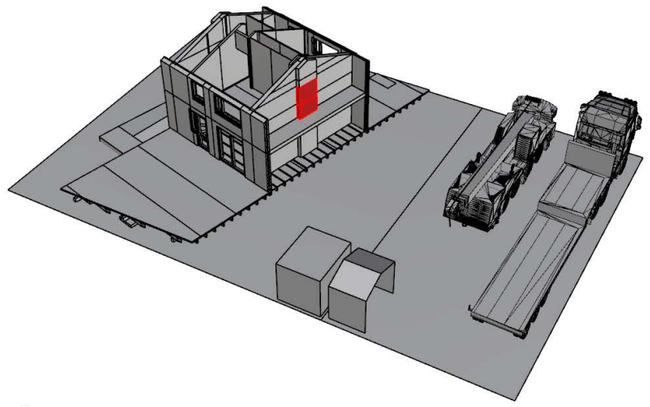


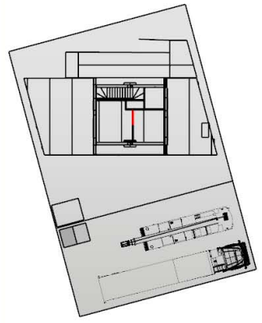


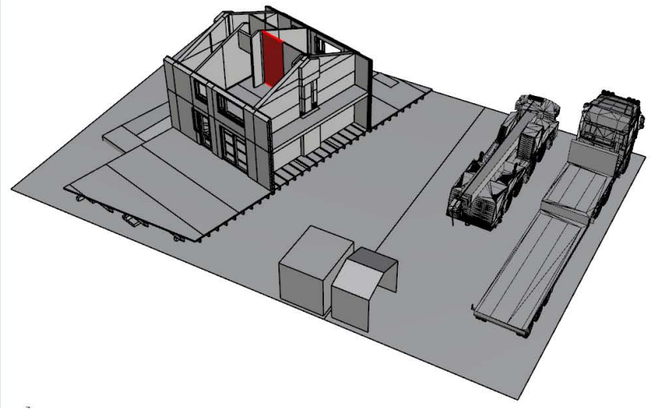


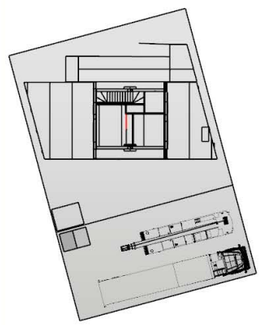


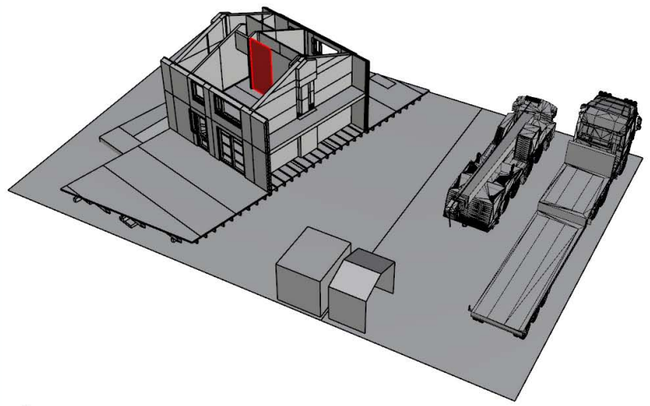


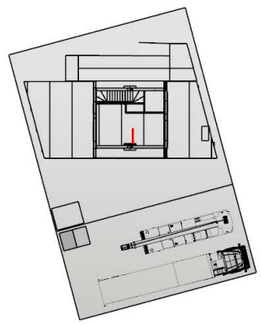


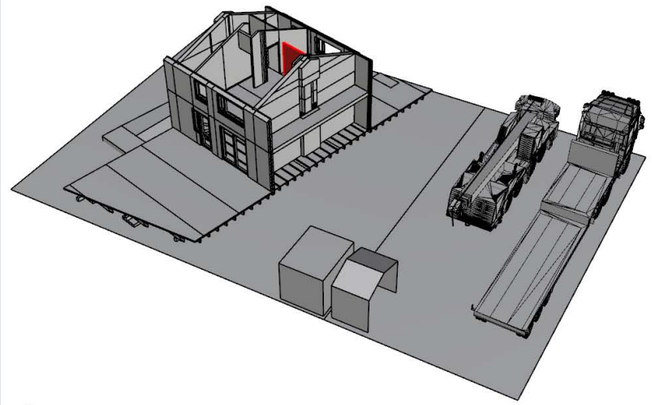




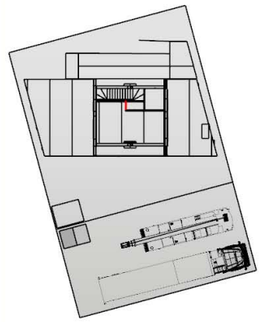


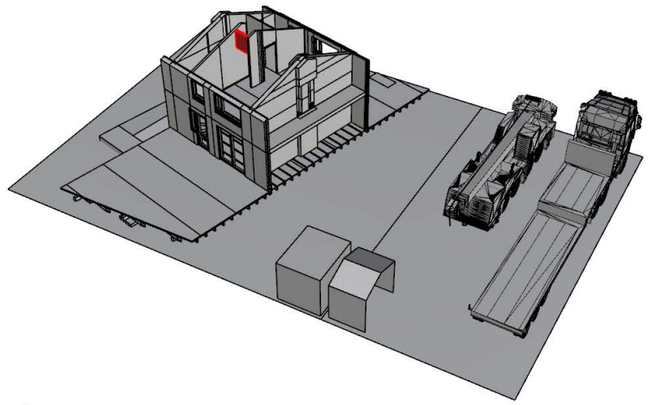


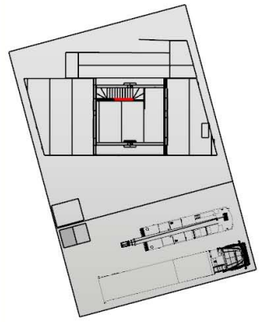


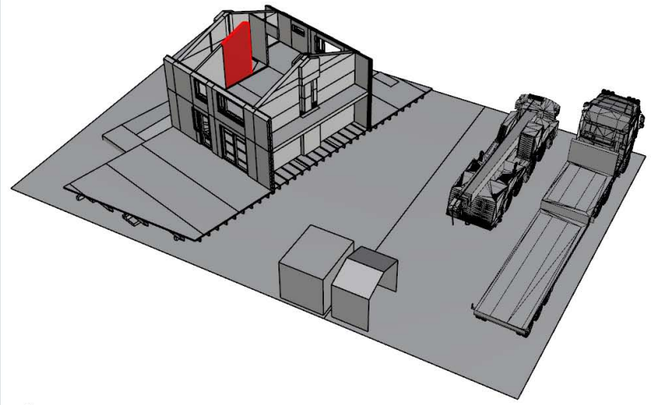


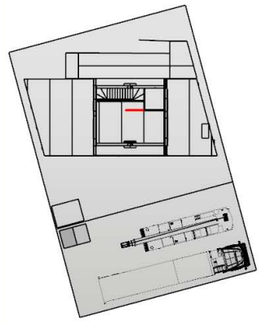
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS	Drawing Code: **S0-217**

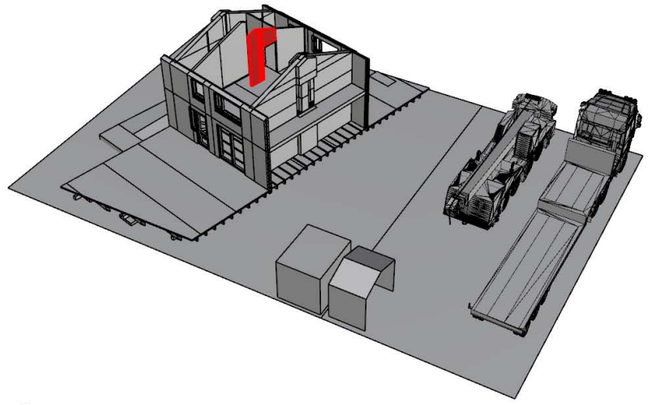


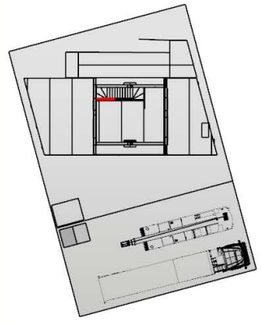


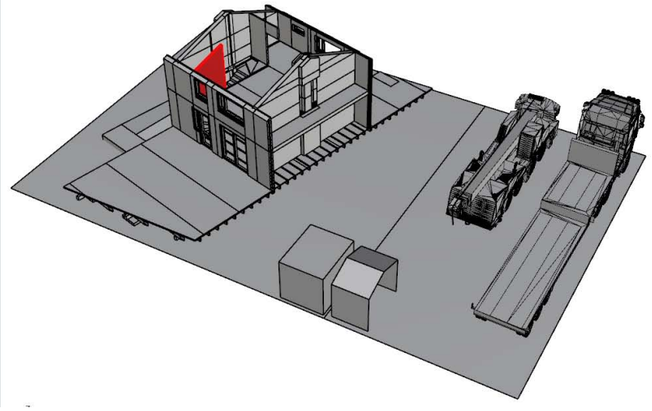


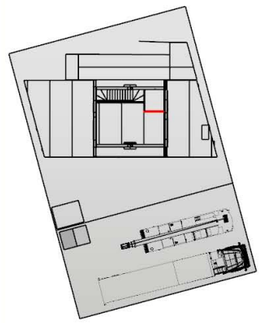


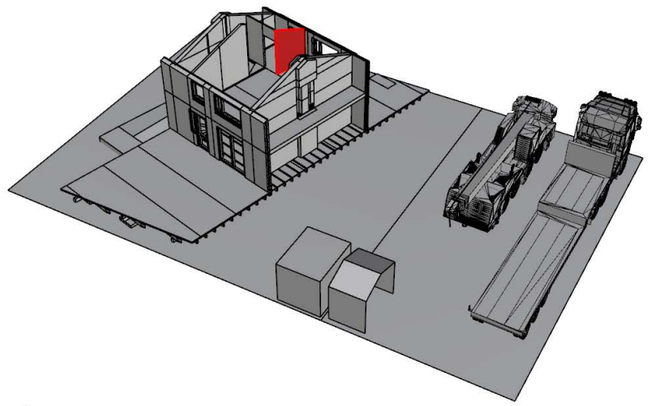


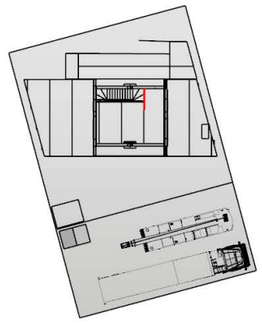


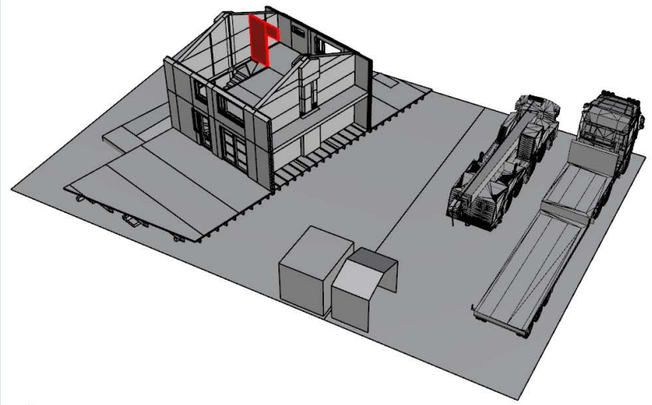




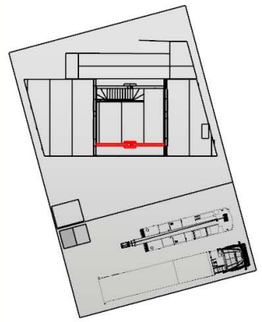


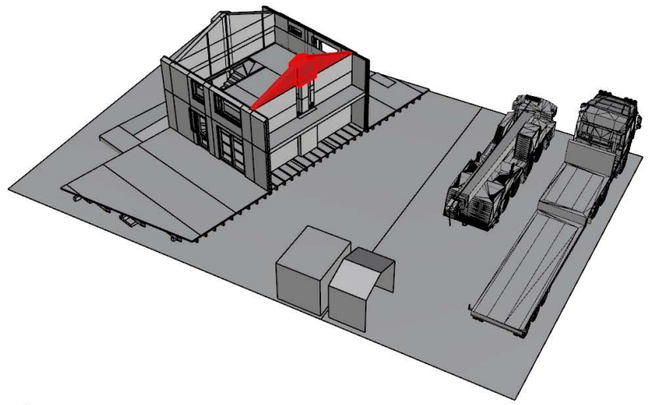


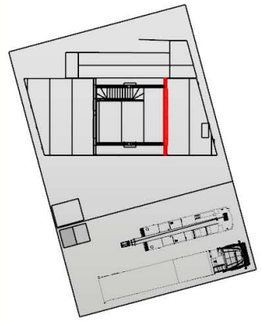


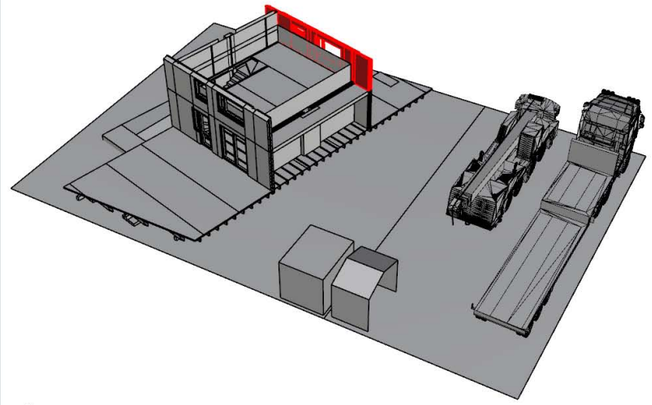


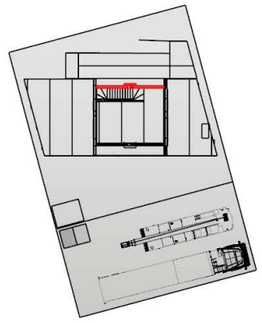
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS	Drawing Code: **S0-218**

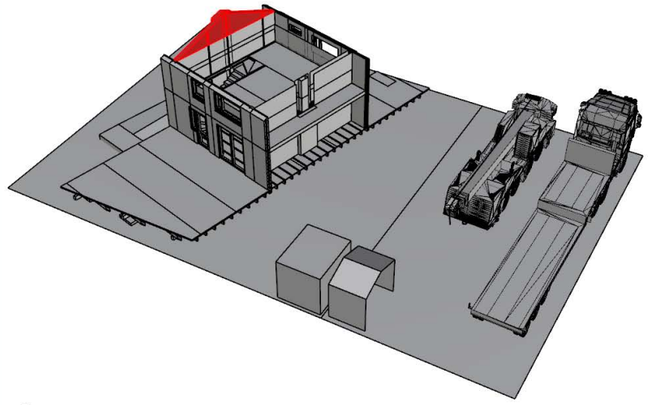


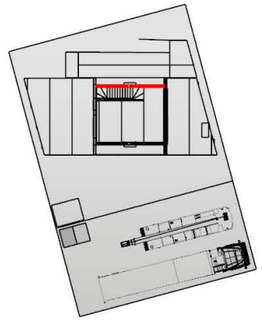


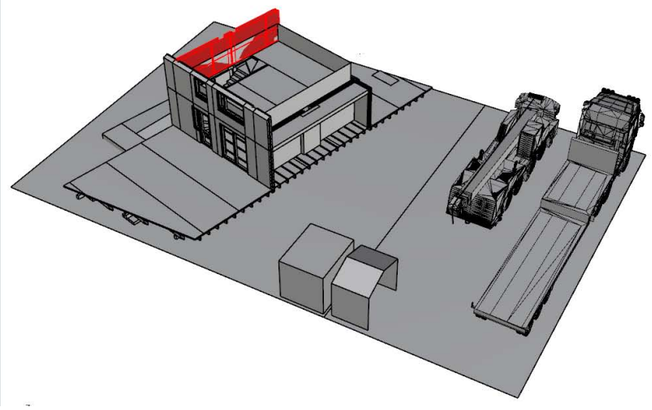


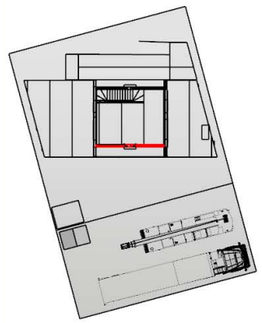


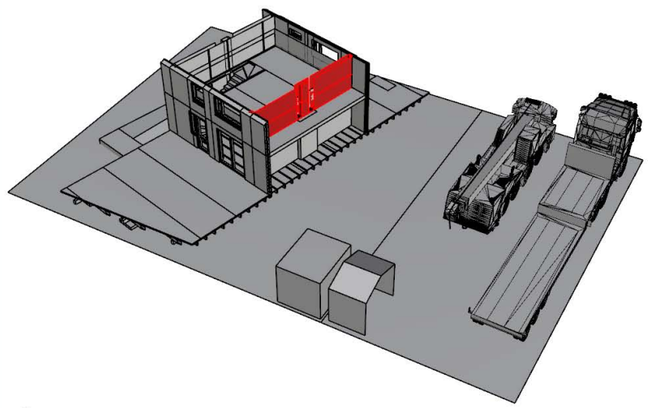


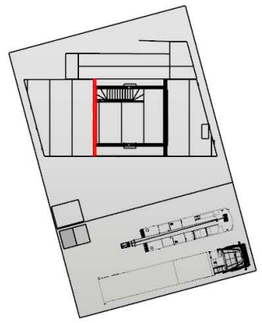


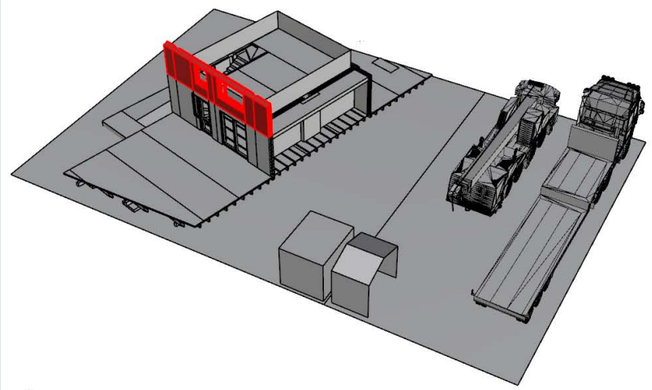




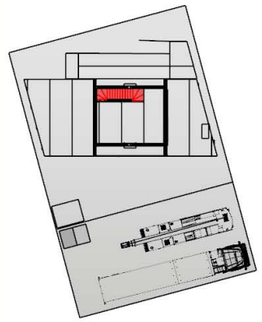


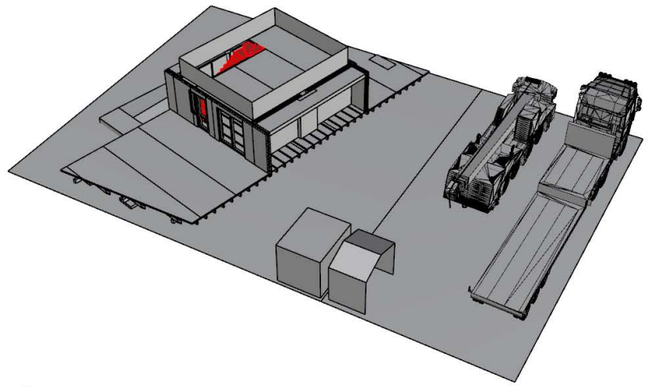


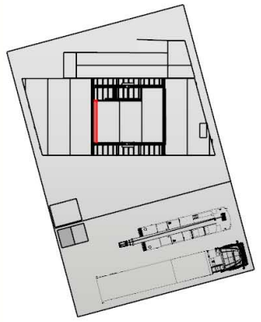


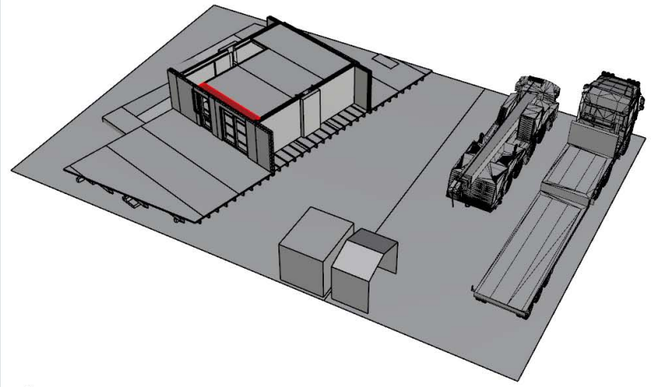


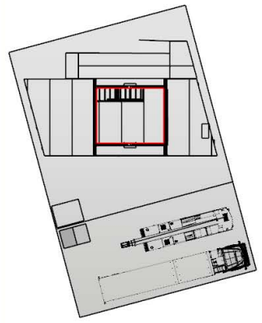
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS	Drawing Code: **S0-219**

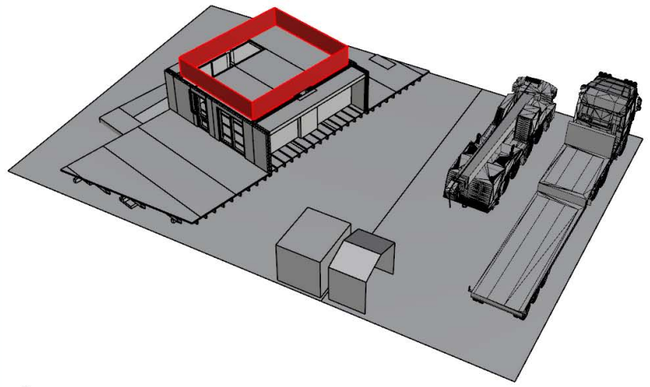


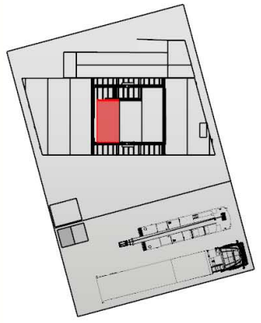


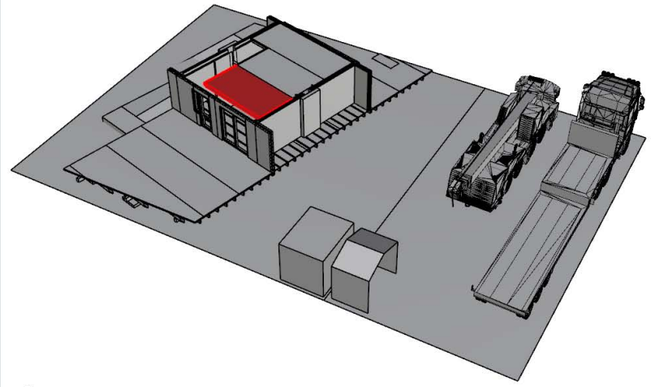


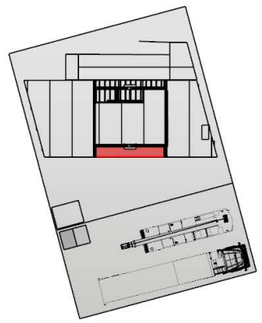


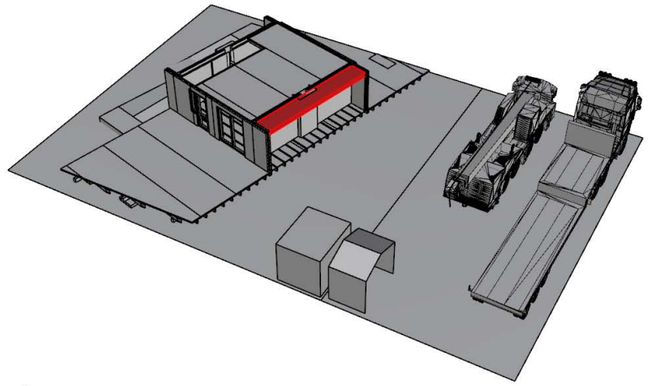


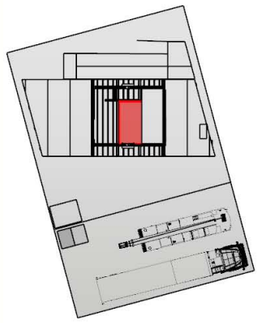


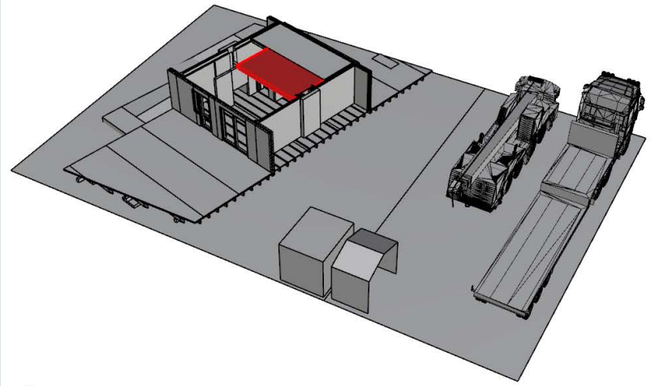




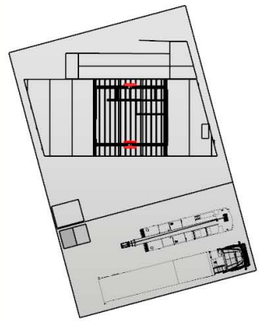


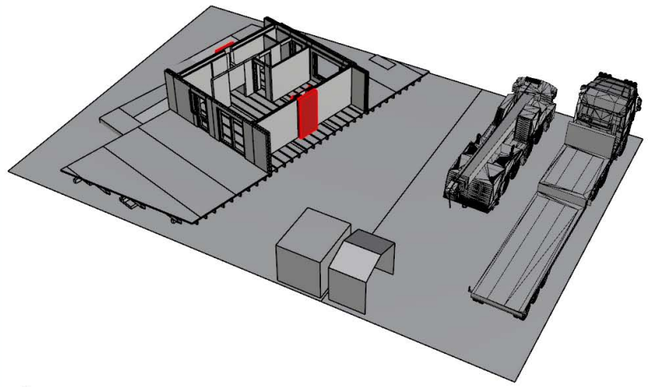


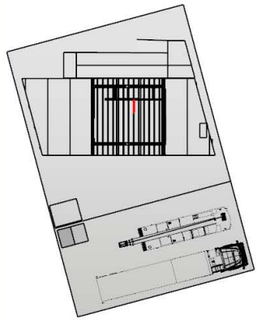


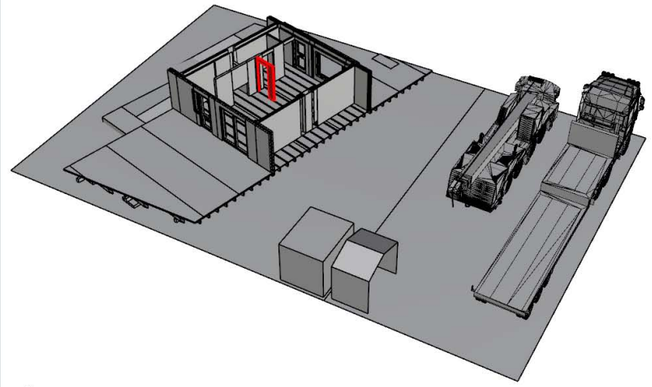


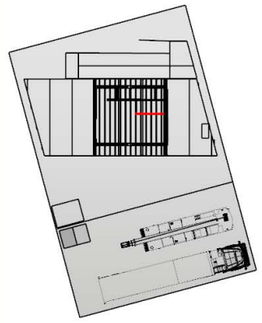
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS FLOOR	Drawing Code: **S0-220**

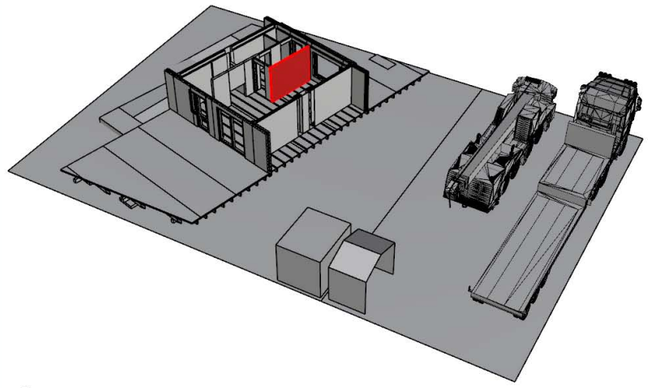


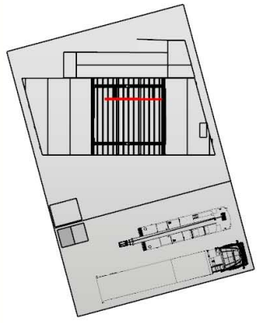


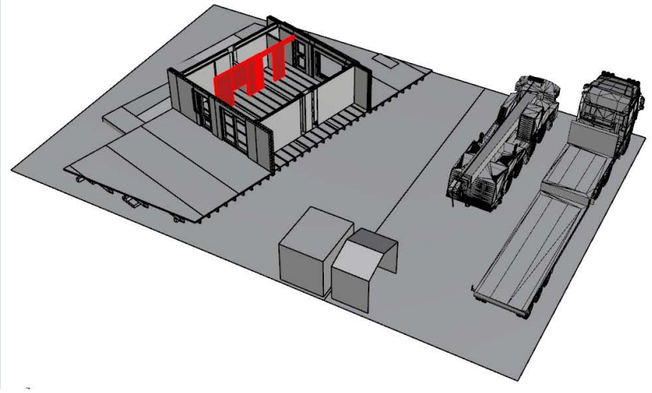


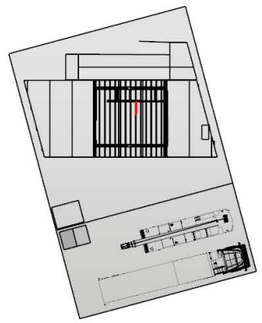


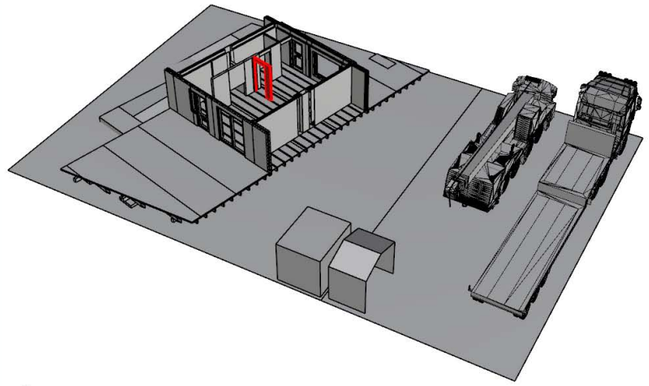


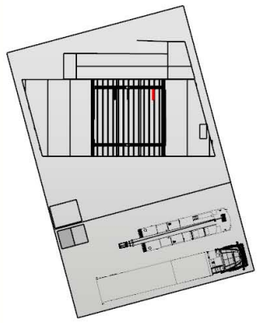


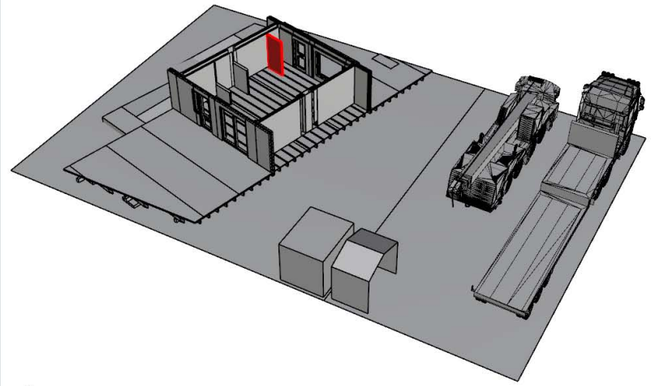




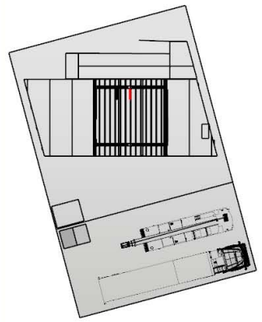


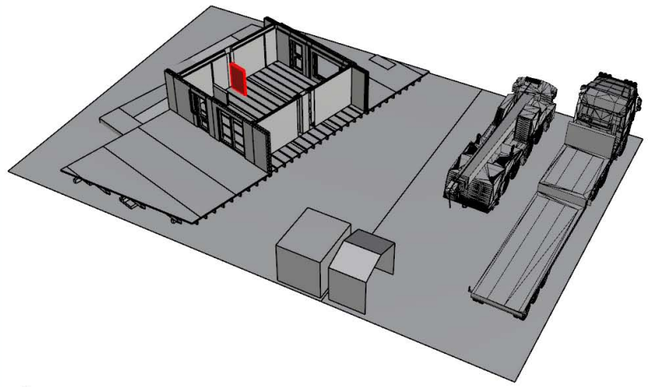


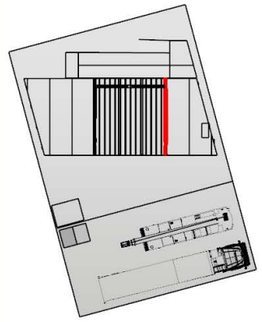


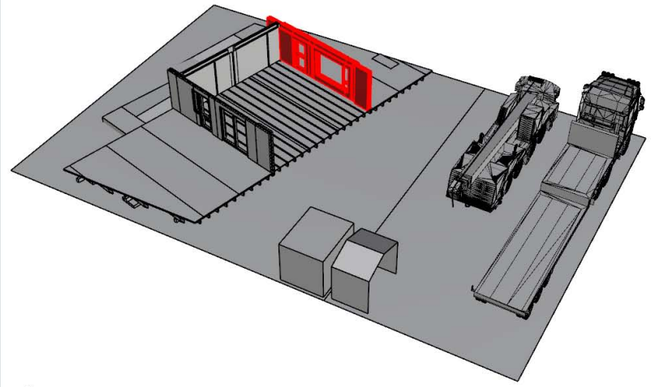


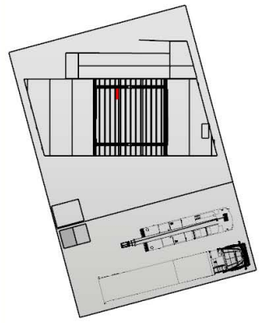
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS	Drawing Code: **S0-221**

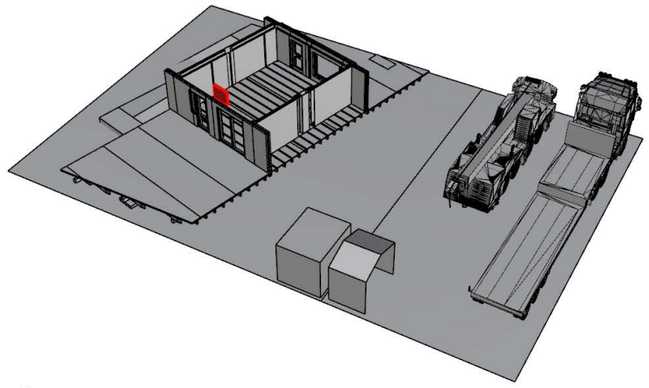


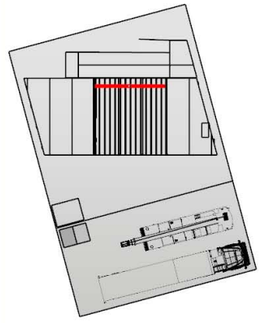


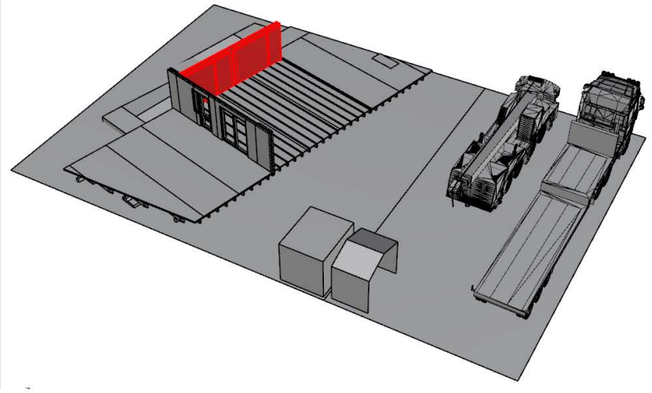


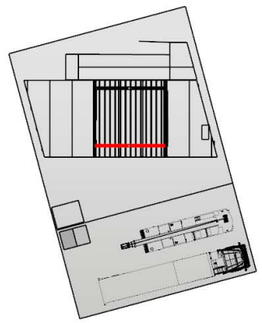


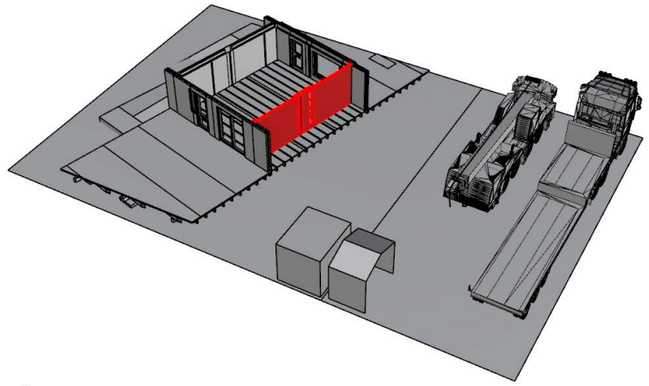


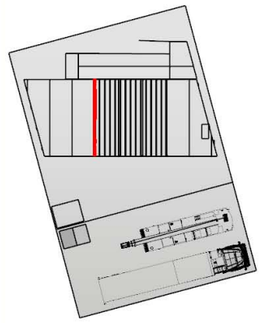


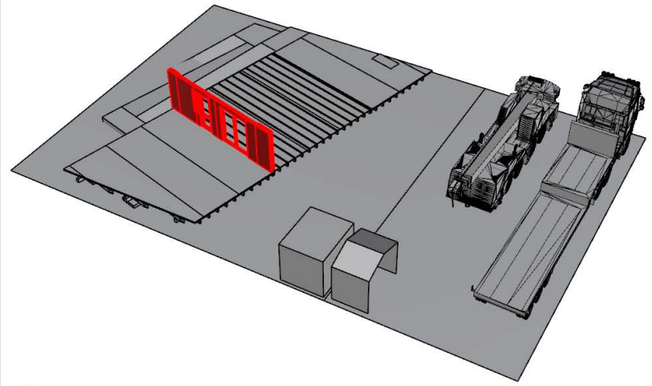




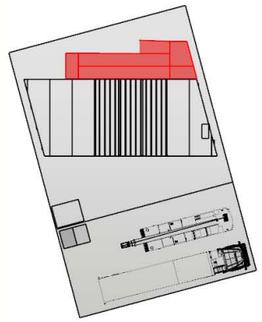


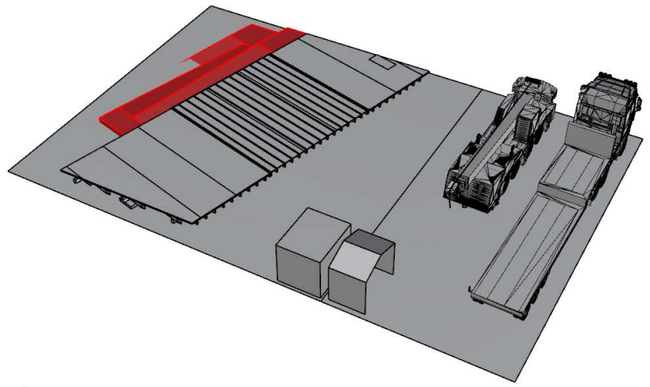


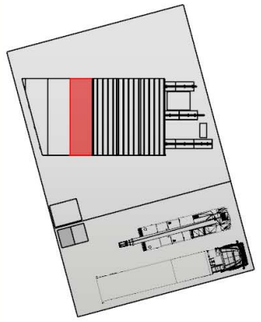


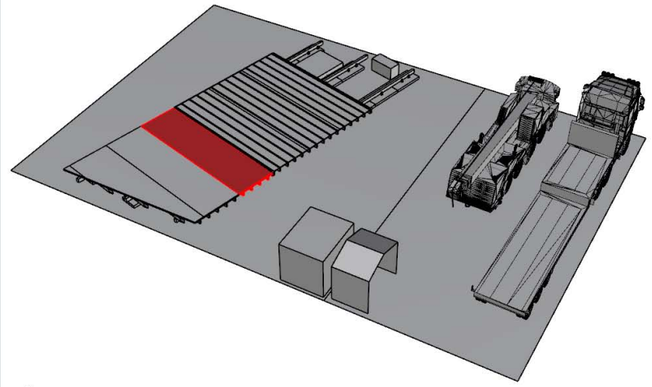


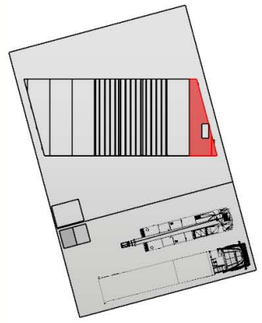
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY WALLS	Drawing Code: **S0-222**

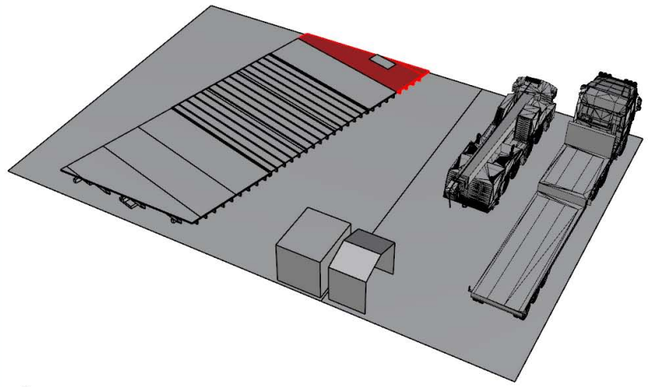


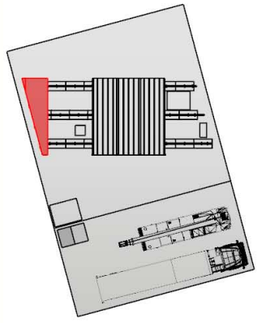


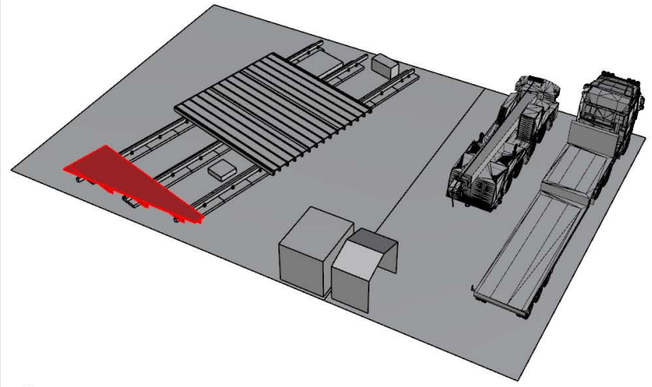


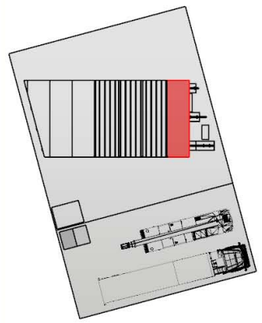


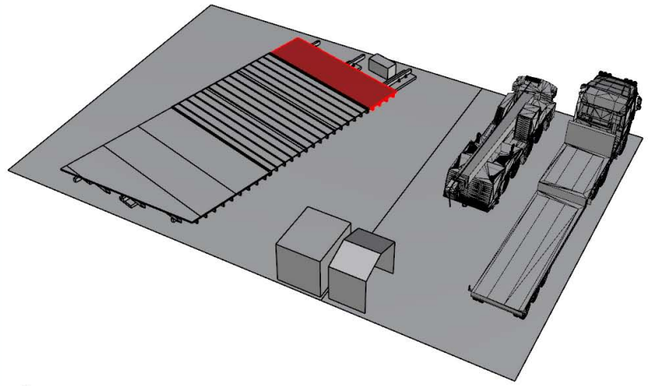


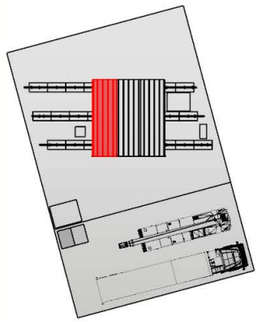


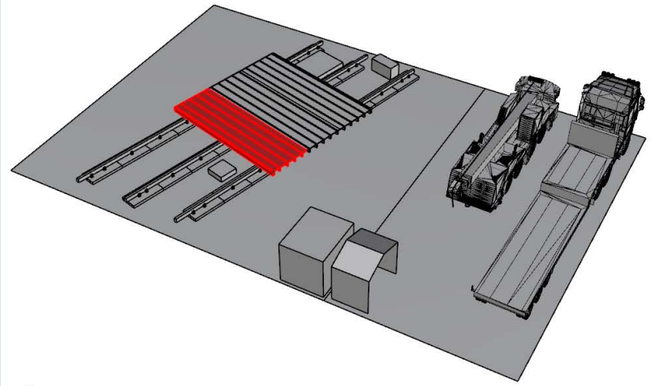




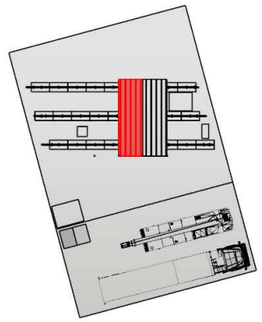


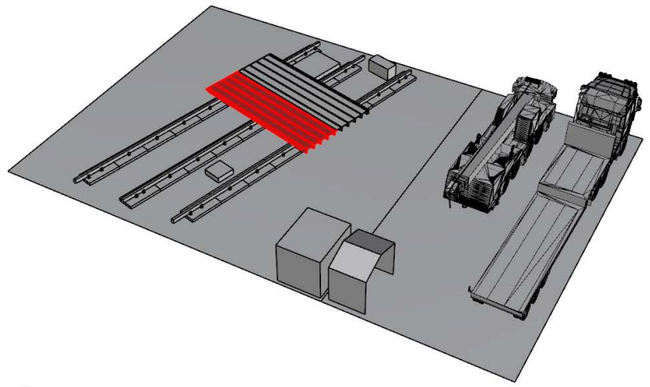


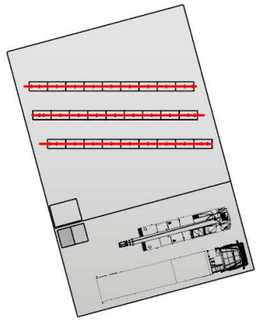


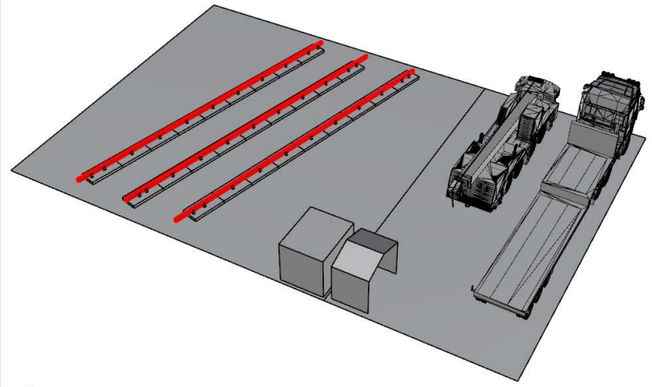


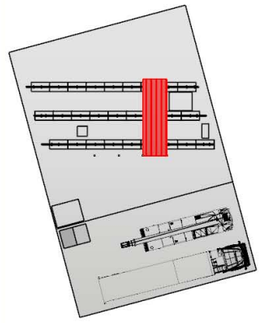
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger — Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY FOUNDATION	Drawing Code: **S0-223**

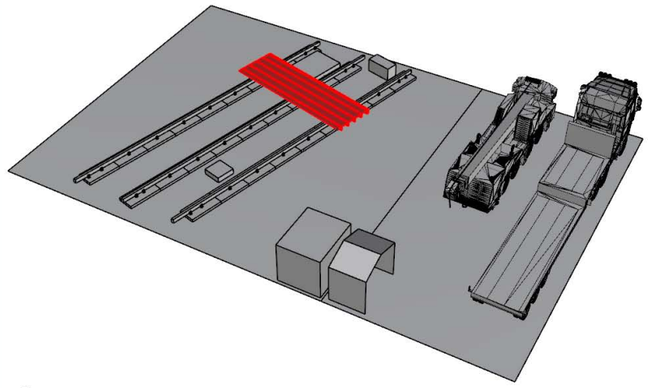


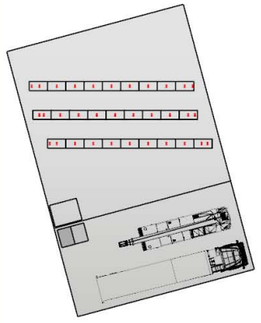


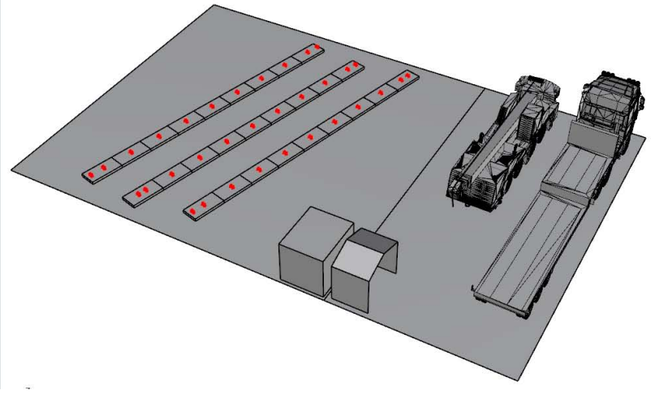


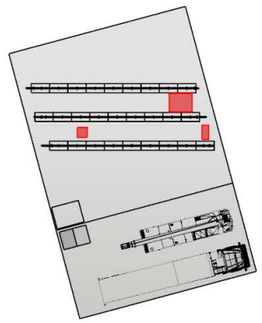


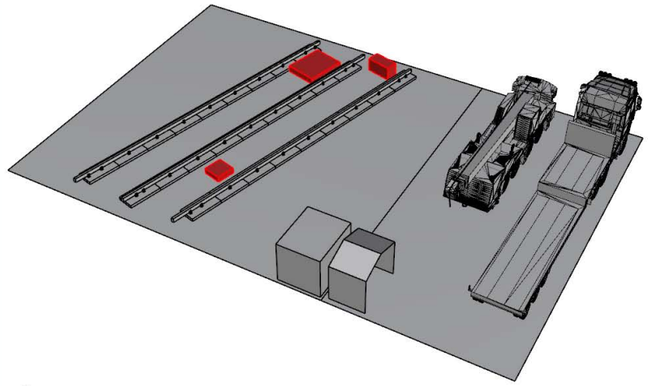


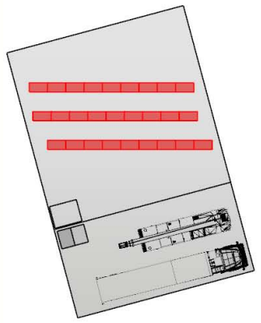


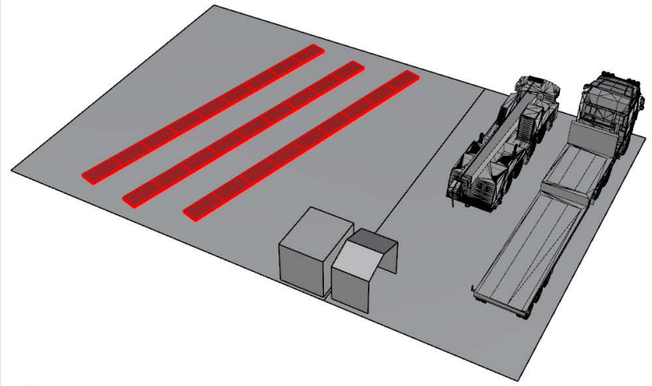




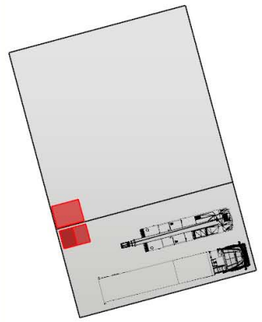


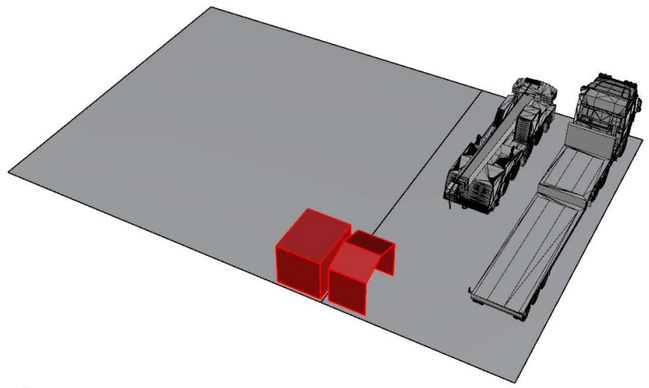


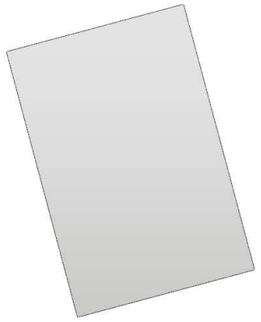


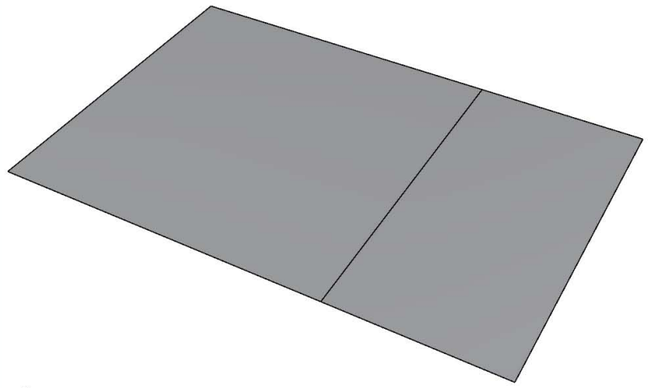


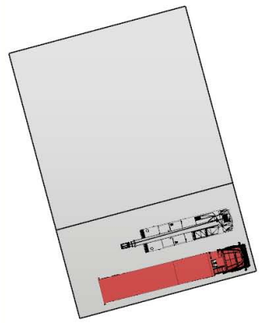
Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 — 20.04.2014 — Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY FOUNDATION	Drawing Code: **S0-224**

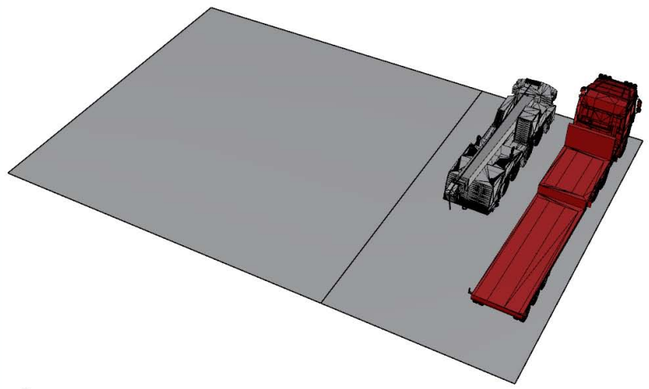


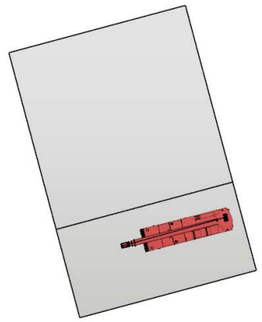


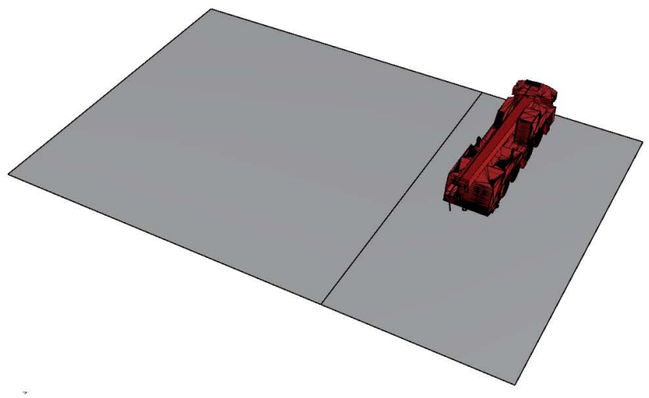




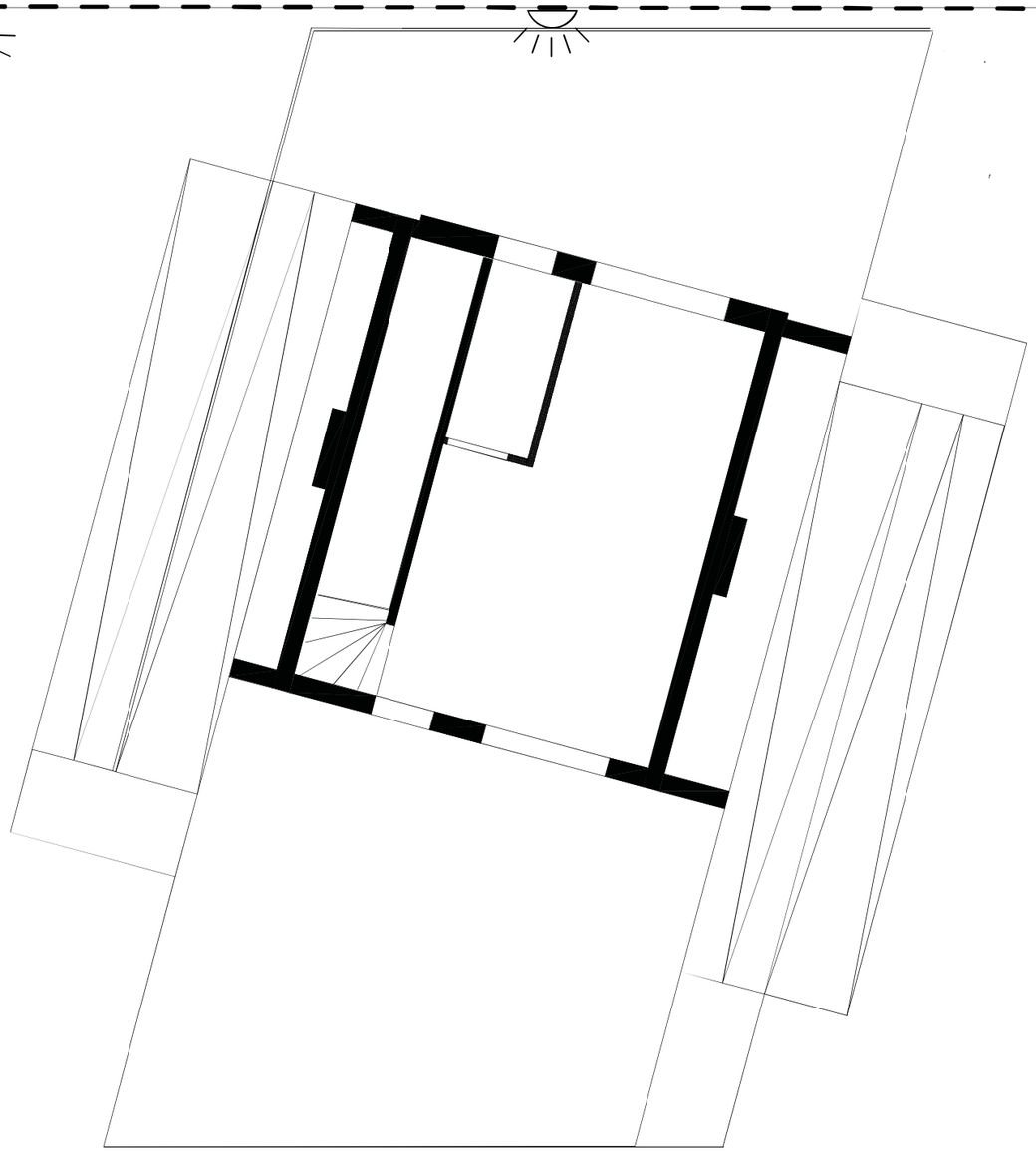


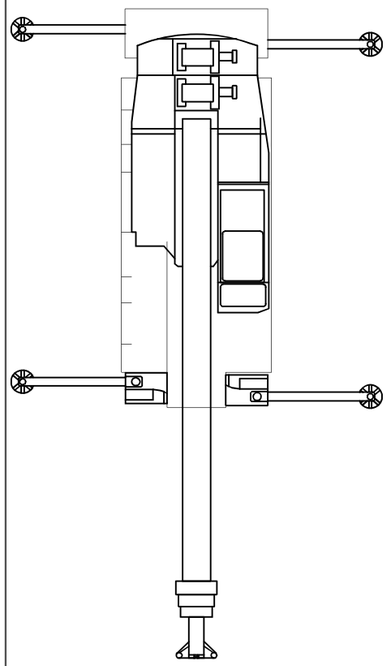


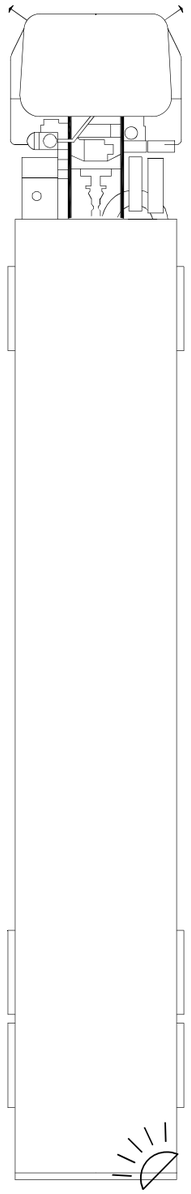




Awarding Institution: Solar Decathlon Europe 2014	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 20.04.2014 Del. 5
Contestant: Prêt-à-Loger, Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: SITE OPERATIONS	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: DISASSEMBLY FOUNDATION END	Drawing Code: **S0-225**







PPE







Base Tent
3x2m

Container for tools
3x2,5m

20m

19.5m

29.5m

30m

EMERGENCY EXIT



EMERGENCY ASSEMBLY POINT

Construction light

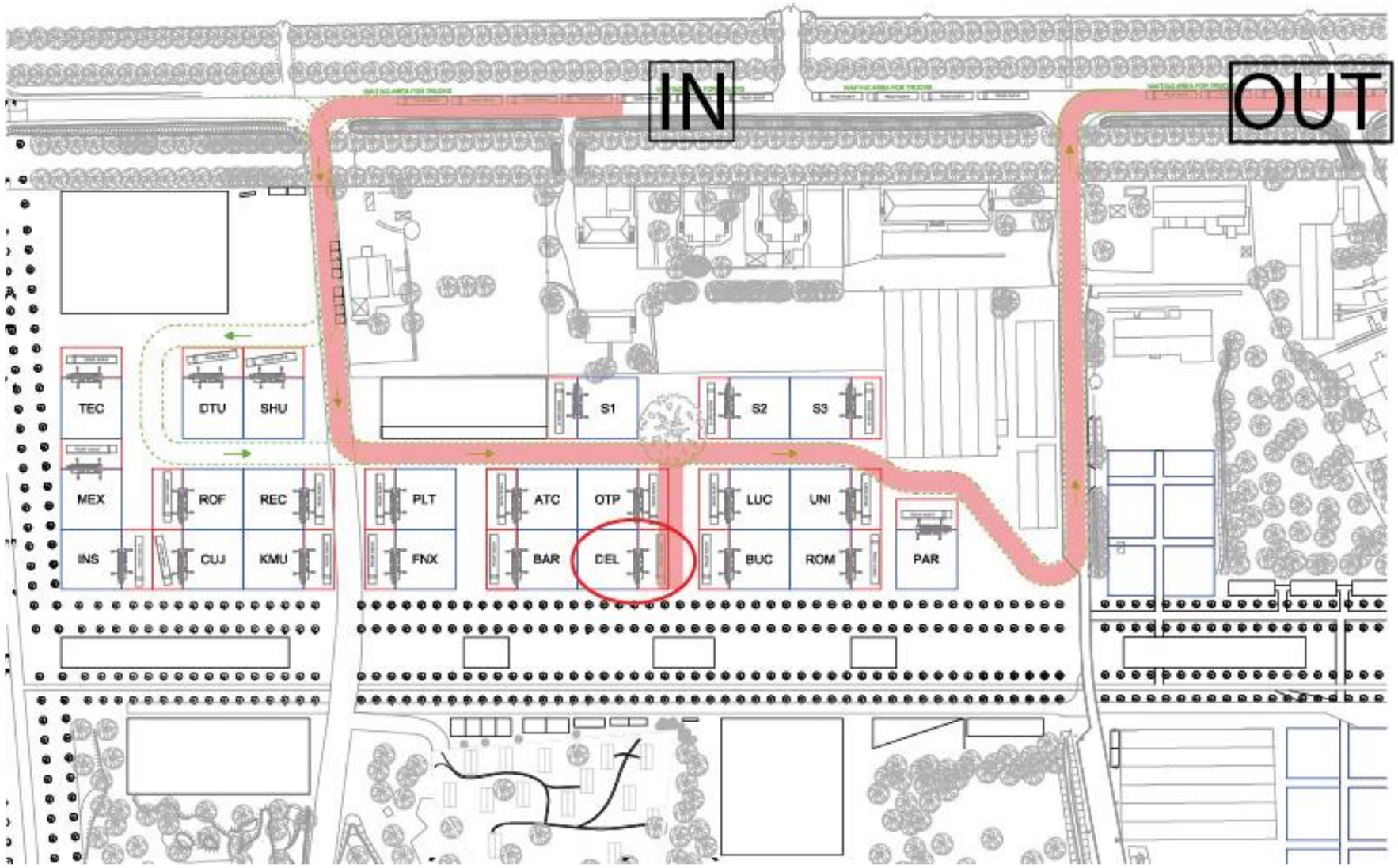
Lot fence

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft
Contestant: Prêt-à-Loger, Home with a Skin	
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE	

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	
Project Phase: CONSTRUCTION DOCUMENTATION	
Drawing Block: HEALTH AND SAFETY	
Drawing Subject: LOT AND SURROUNDINGS	

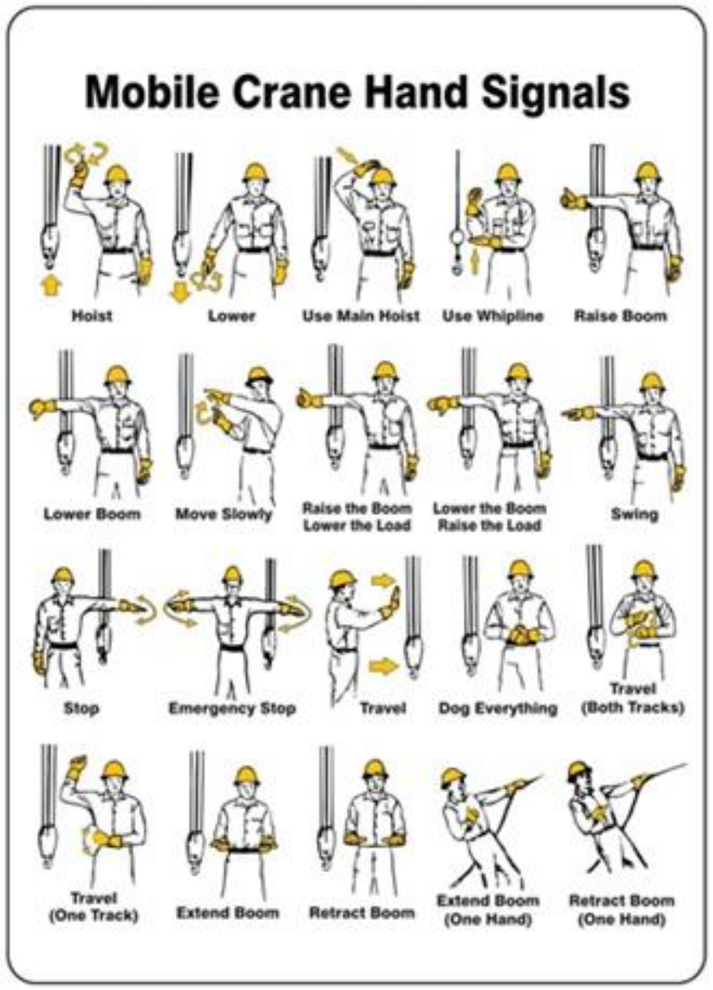
Revisions		
4		
3		
2	22.04.2014	Del. 5
1	03.03.2014	Del. 4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	HS-001

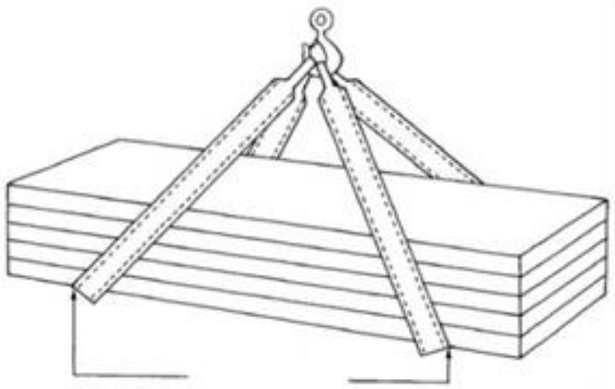


- The Pret-a-Loger trucks are supposed to follow the red line and not deviate from it
- The trucks must be guided by 2 team members, one walking in front of it, one walking behind it
- Trucks shall not exceed walking speed
- Trucks and other vehicles shall make room for emergency services
- During night time lights should be on, also the team members guiding the trucks should wear reecting vests

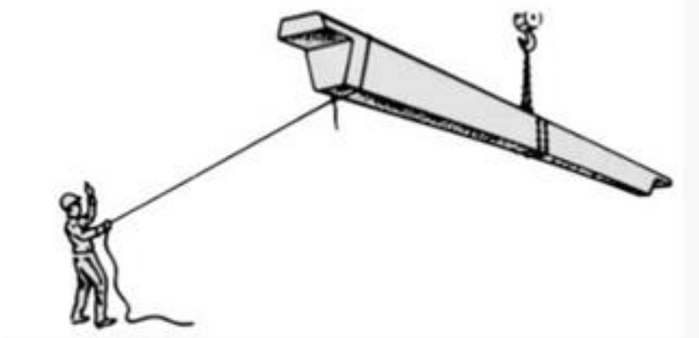
Awarding Institution: Solar Decathlon Europe	Suporting Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: HEALTH AND SAFETY	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: INSIDE LOGISTICS	Drawing Code: HS-201



One person should coordinate the li□ing procedure



- Inspect the strength and quality of the sling before using
- Ensure that the sling is properly a□ached to the crane hoist
- Addi□onal li□ing equipment such as spreader beam might be required
- Ensure the load is equally distributed in the sling
- Ensure the load is in stable condi□on



- The load should be landed gently to ensure there is no damage
- One person should coordinate the li□ing procedure
- 1 to 4 people are needed to guide the unloading process with tag lines
- Do not stand or walk beneath the loads

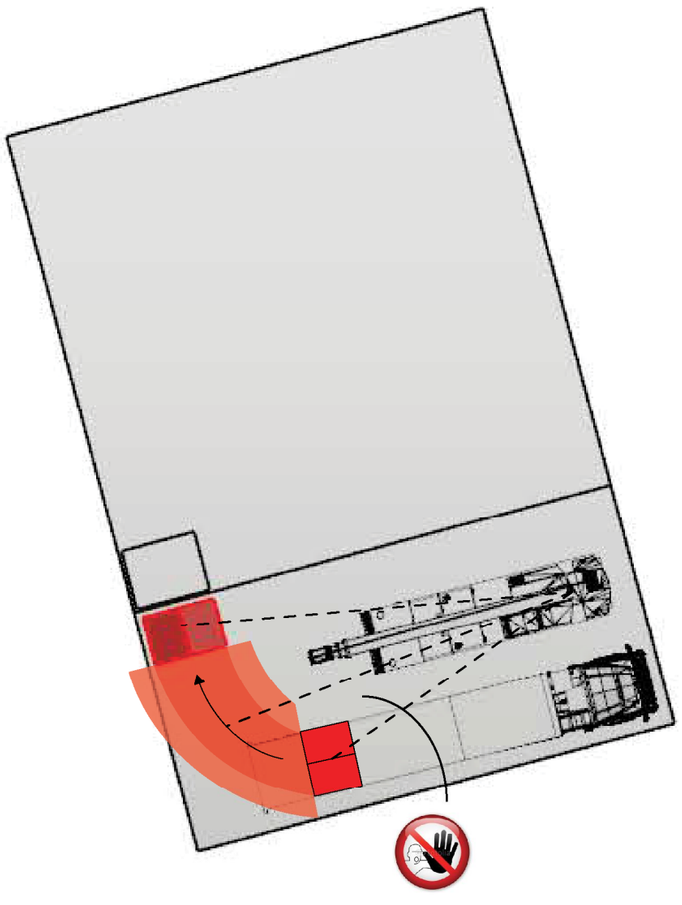


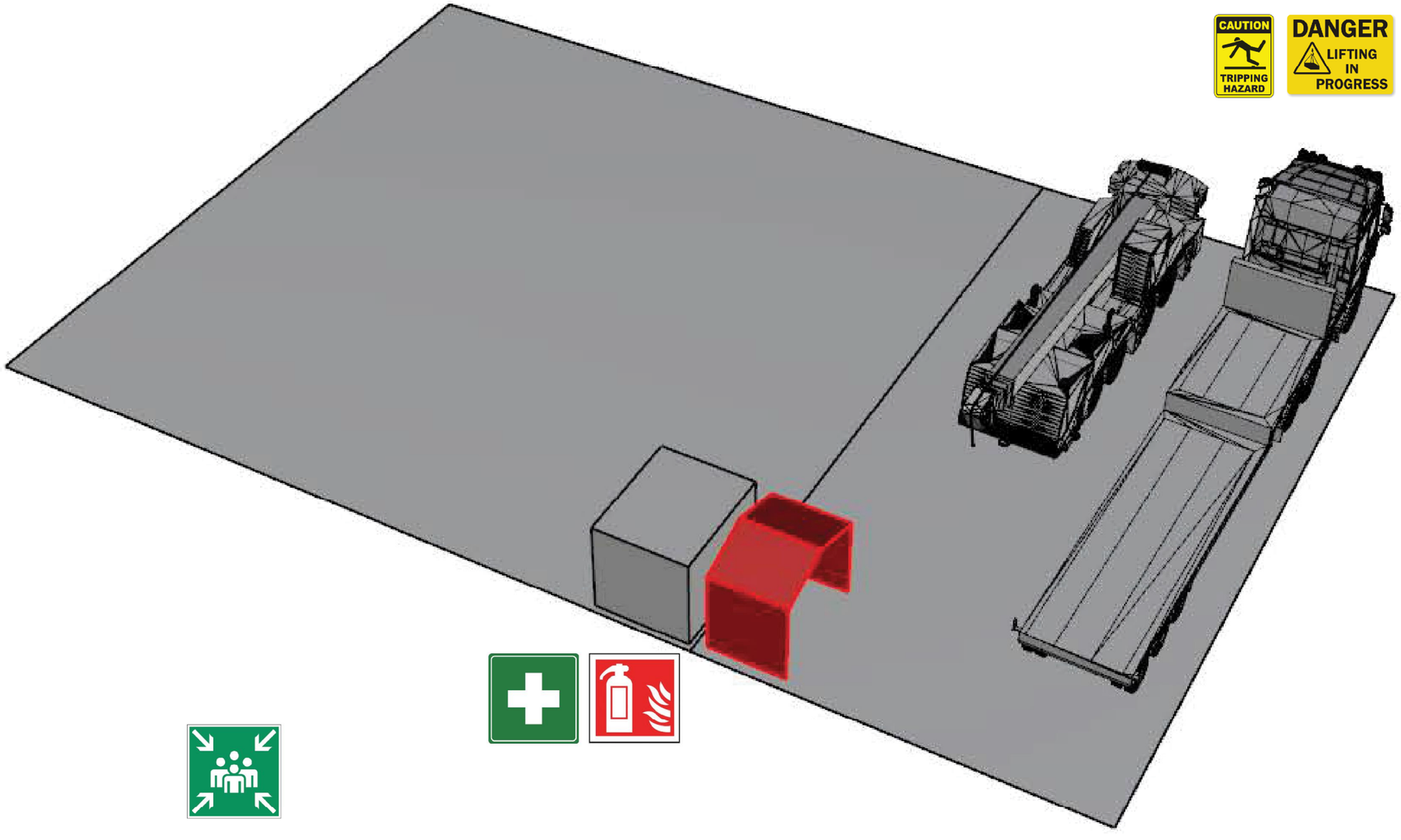
Do not stand or walk beneath the loads

Awarding Institution: Solar Decathlon Europe	Suporting Institution: TUDelft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 / 3 / 2 / 1 03.03.2014 Del. 4
Contestant: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: HEALTH AND SAFETY	Drawing Scale: n/a
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: LOAD / UNLOAD	Drawing Code: HS-301

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Setting Up Construction Site	Stepping on object	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck, marking of hazardous zones, physical closure of access points outside working hours, any action on the machine must be done after neutralising command control
	Fall of objects because of collapse	
	Knocked by objects or tools	
	Colliding with objects in motion	
	Accidents caused by living beings	
	Exposure to electric connections	
	Flying fragments or particles	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY STARTING

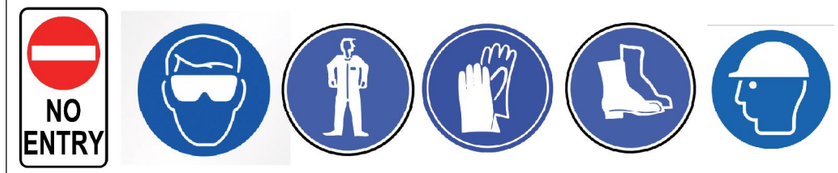
Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

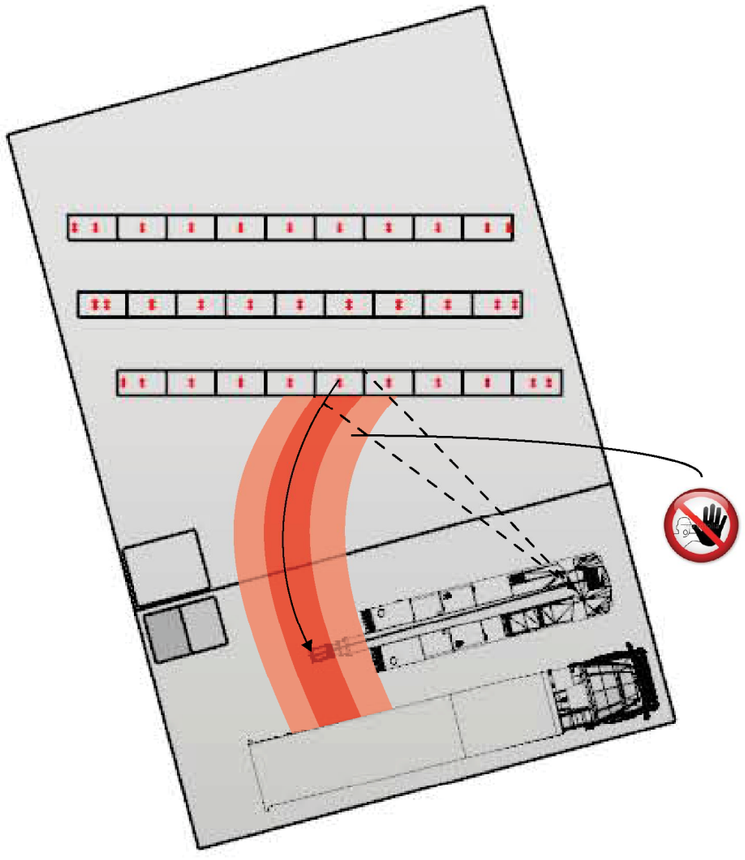
Paper Size: A3

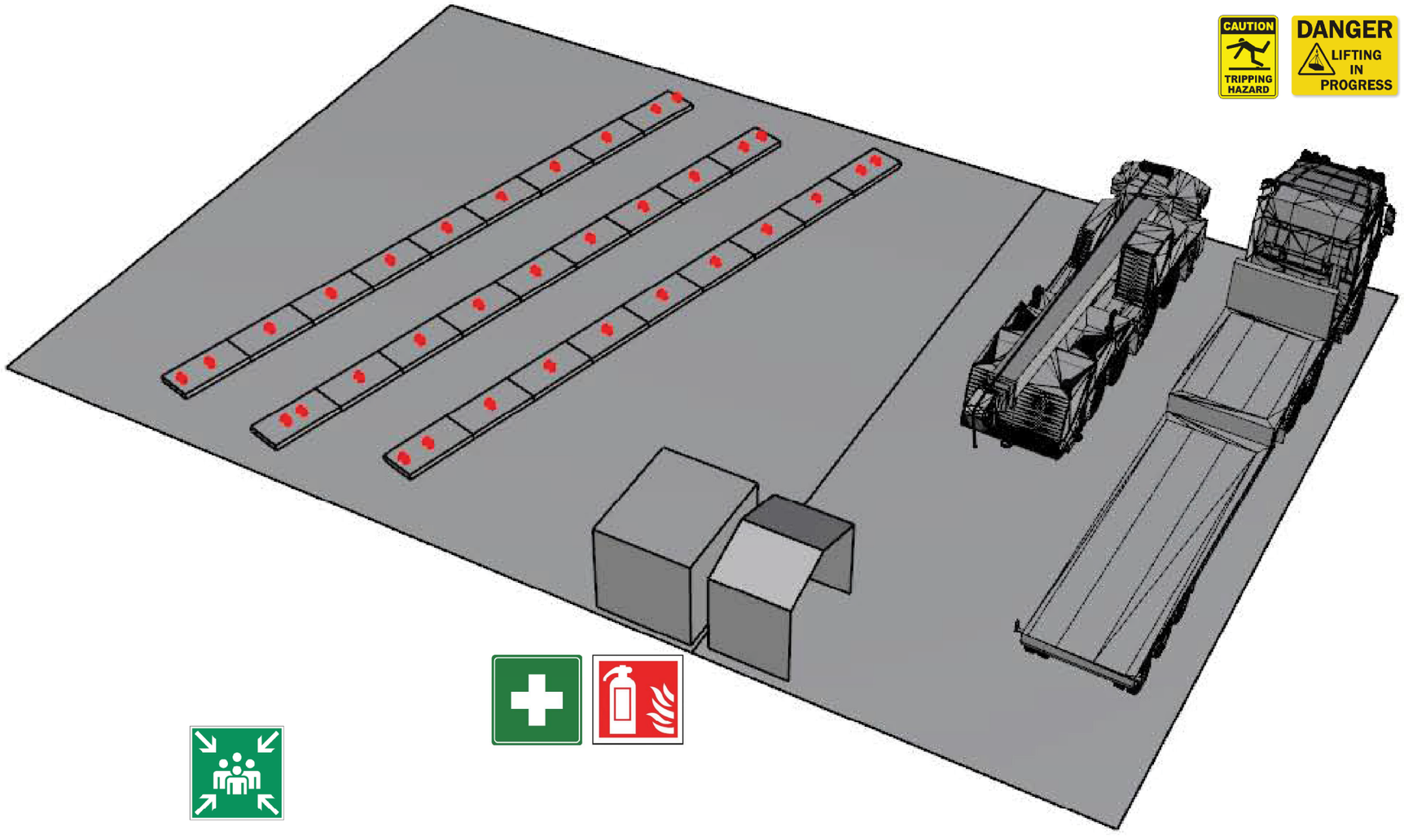
Drawing Scale: N/A

Drawing Code: **HS-401**

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Foundation Assembly	Knocked by objects or tools	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY FOUNDATION

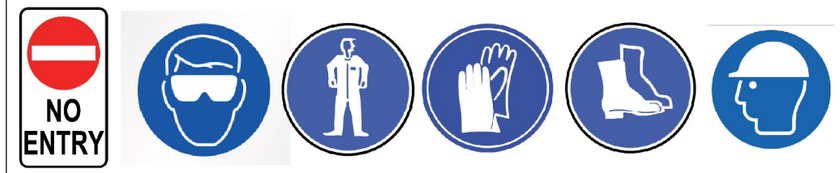
Revisions		
4	--.--.----	-
3	--.--.----	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

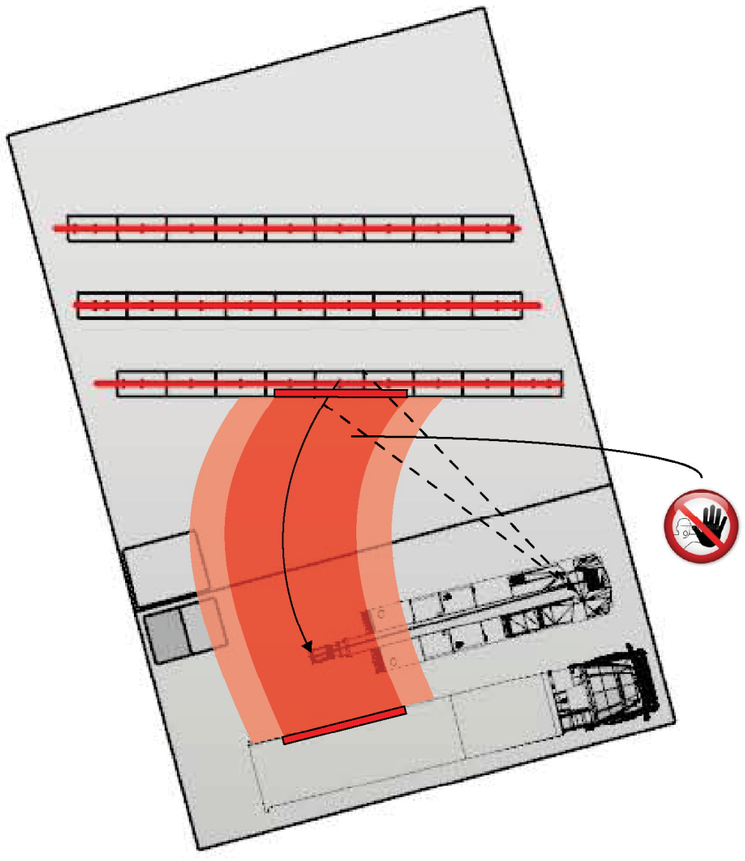
Paper Size: A3

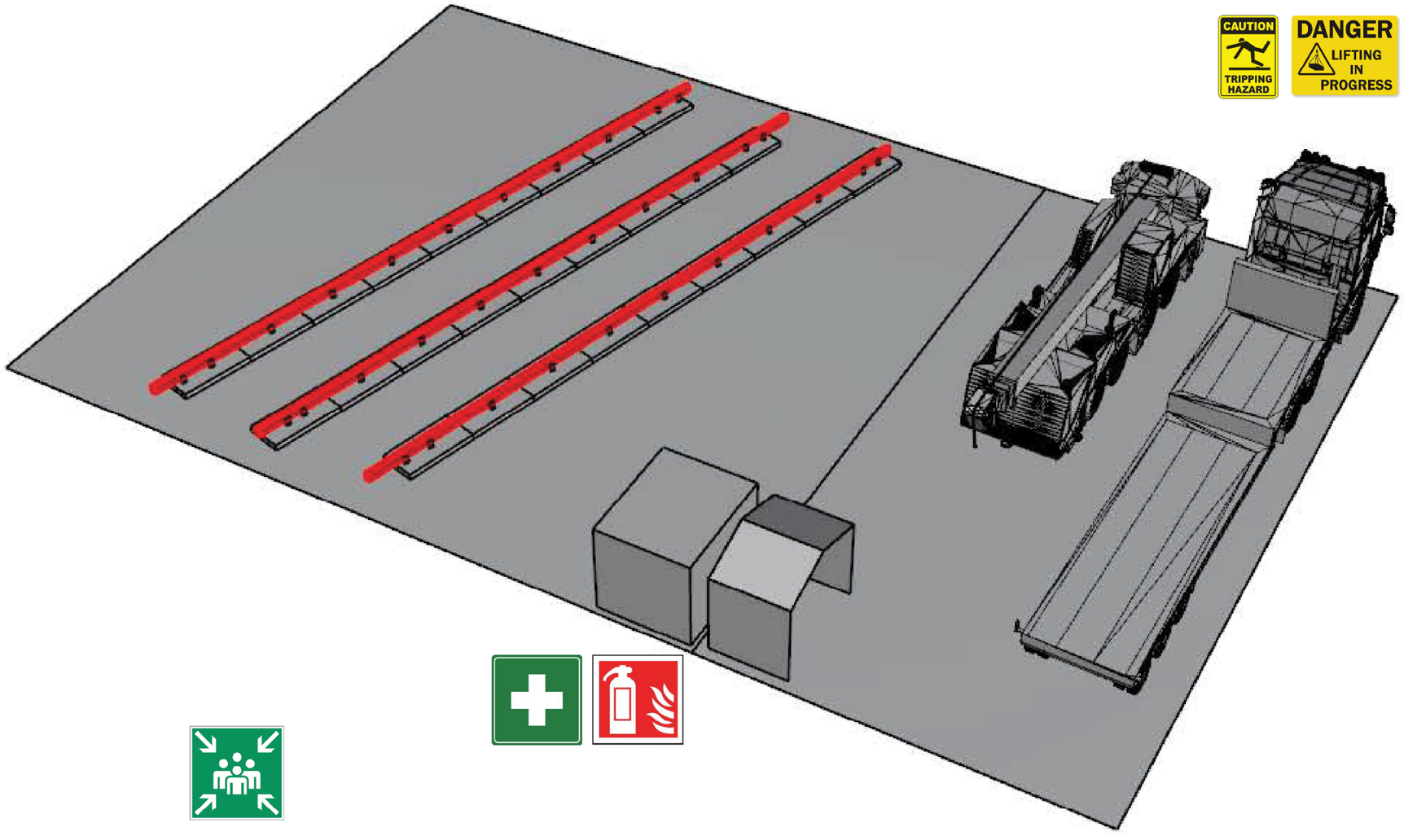
Drawing Scale: N/A

Drawing Code: **HS-402**

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Foundation Assembly	Knocked by objects or tools	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY FOUNDATION

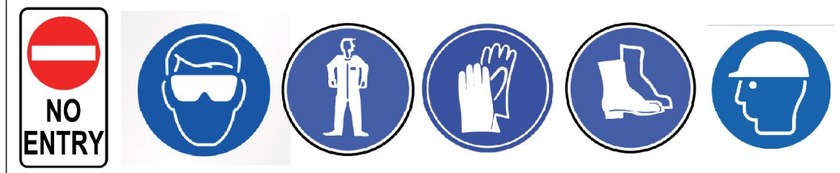
Revisions		
4	--.--.----	-
3	--.--.----	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

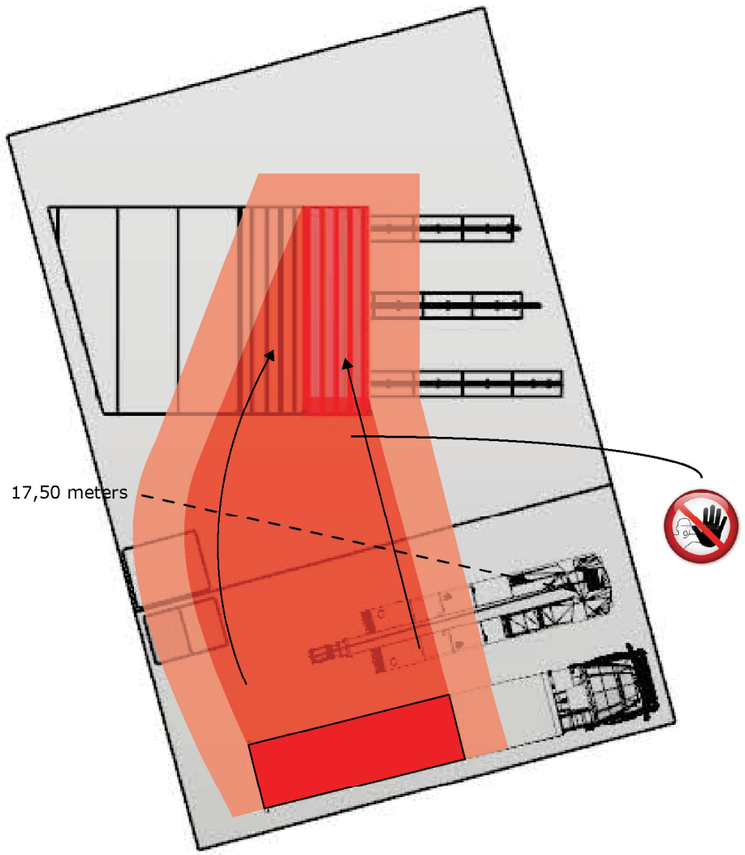
Paper Size: A3

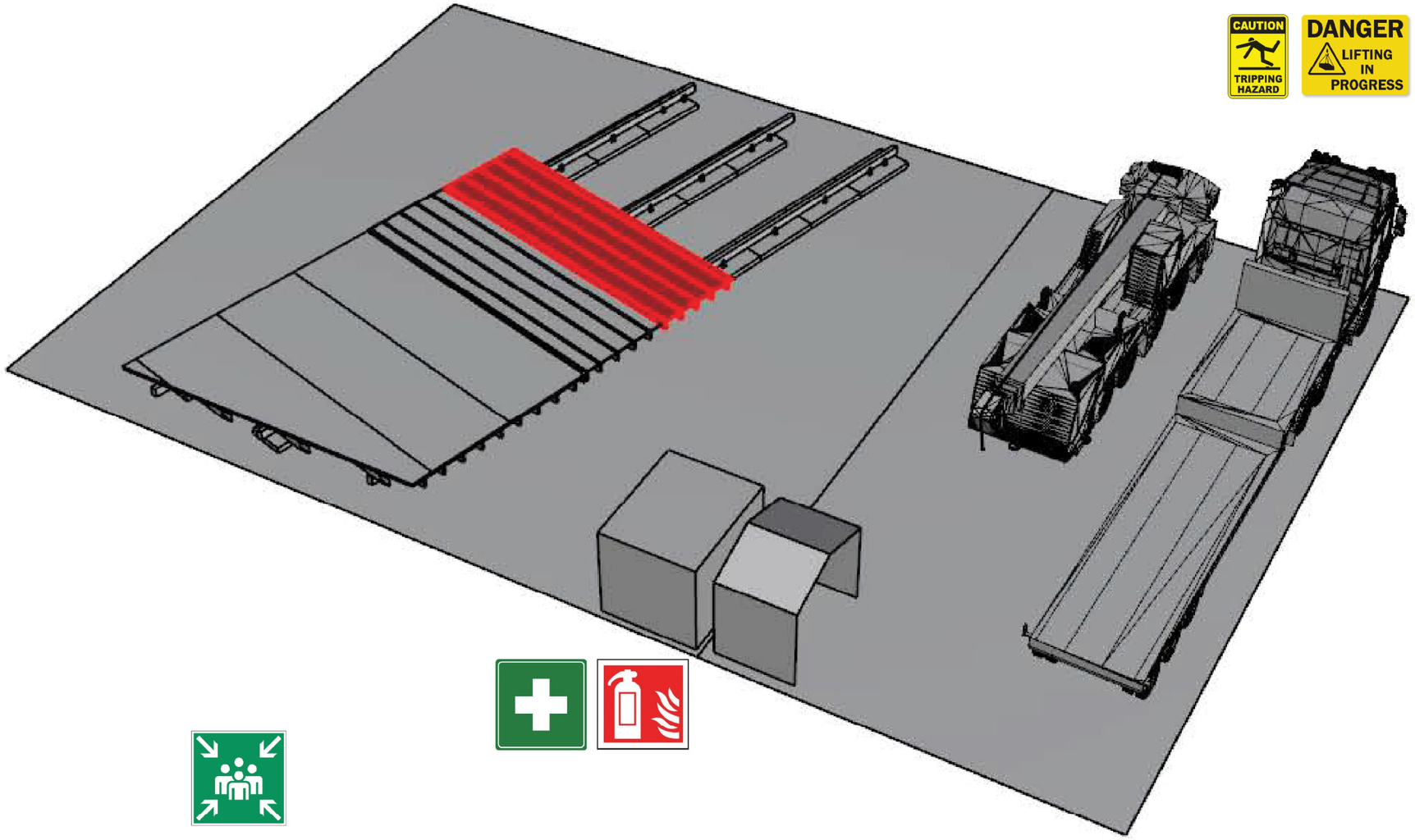
Drawing Scale: N/A

Drawing Code: **HS-403**

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Panels (Ground Floor)	Knocked by objects or tools	Markings and protection of work areas, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY GROUND FLOOR

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

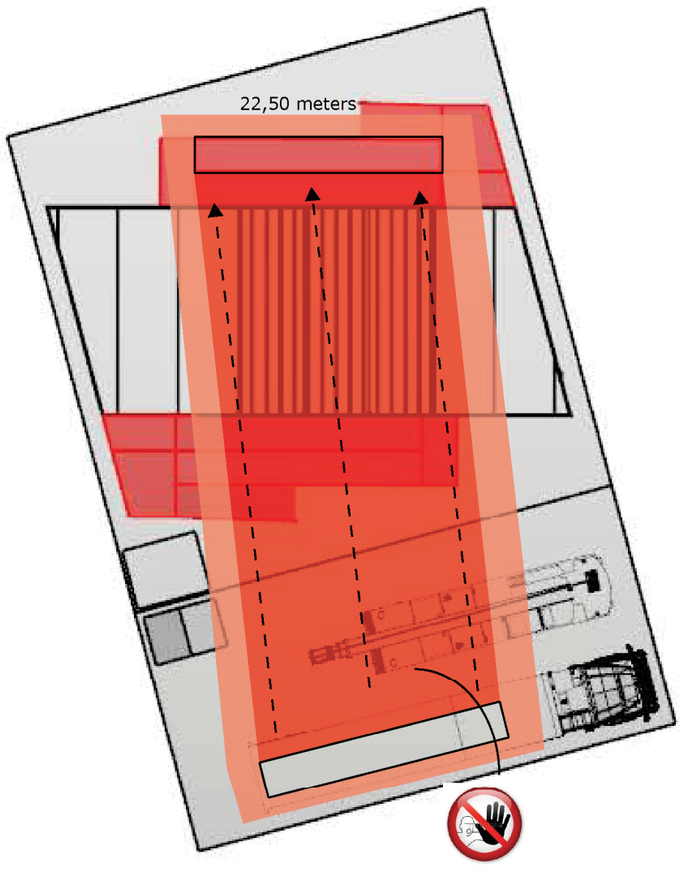
Paper Size: A3

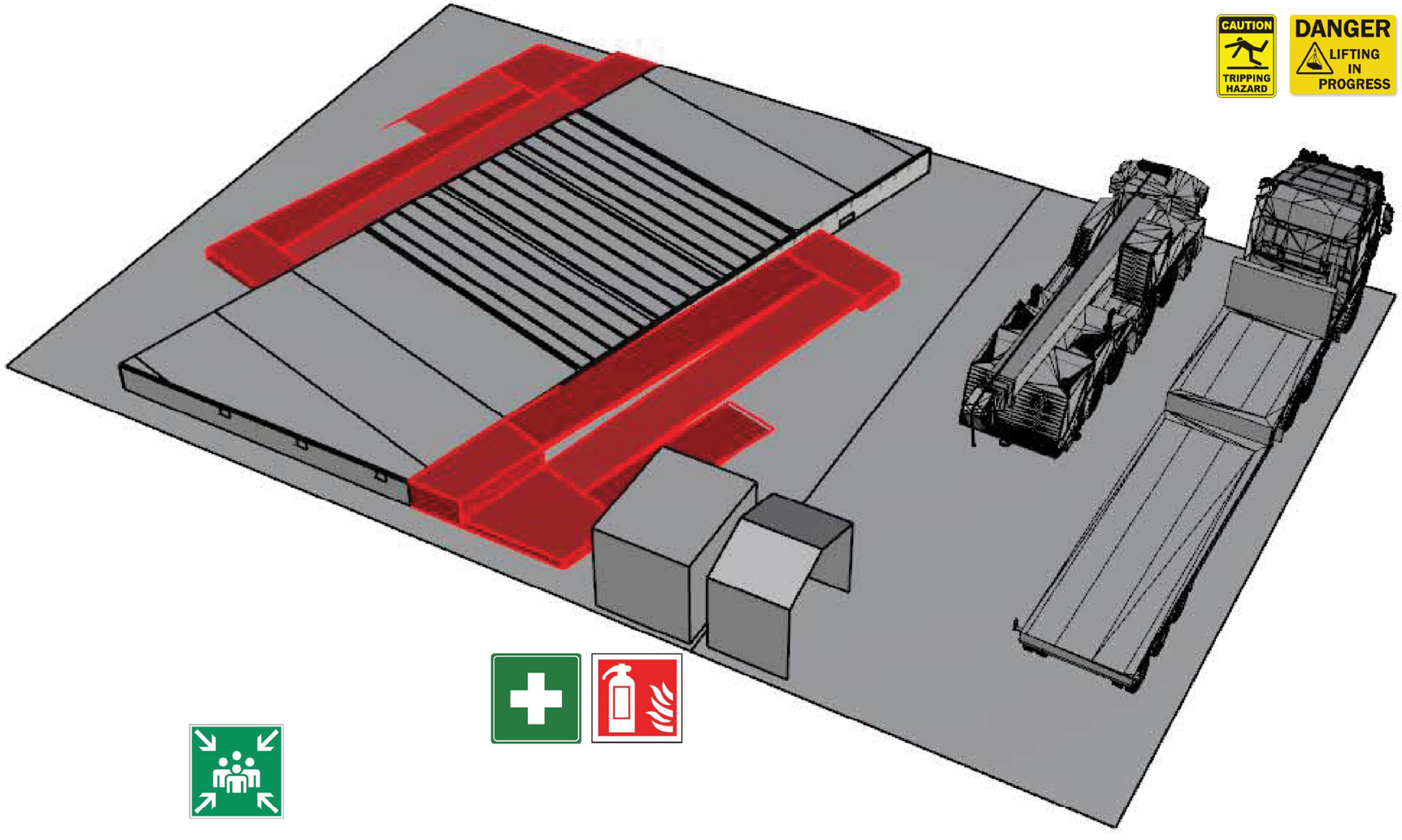
Drawing Scale: N/A

Drawing Code: **HS-404**

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Ramps	Knocked by objects or tools	Markings and protection of work areas, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY RAMPS

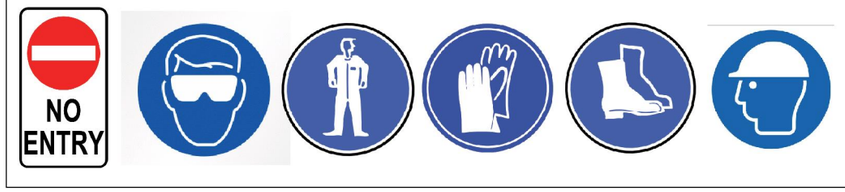
Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

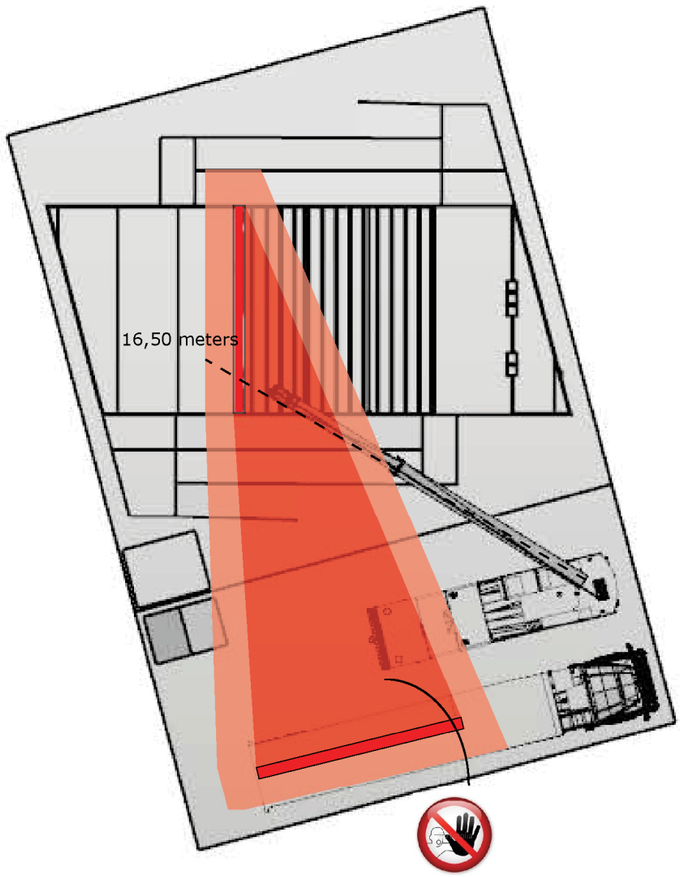
Paper Size: A3

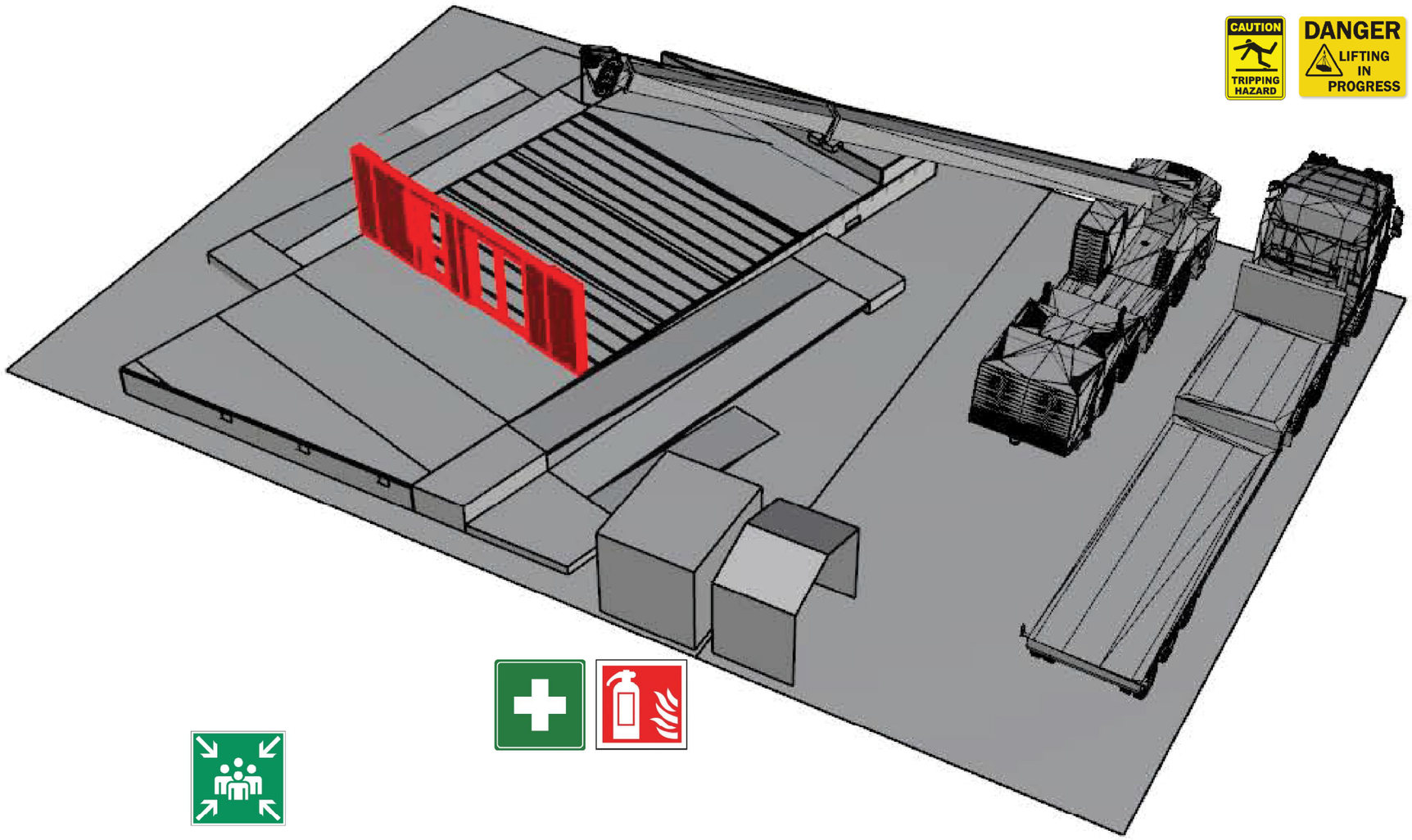
Drawing Scale: N/A

Drawing Code: HS-405

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Walls (Ground Floor)	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Knocked by objects or tools	
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY WALLS GROUND FLOOR

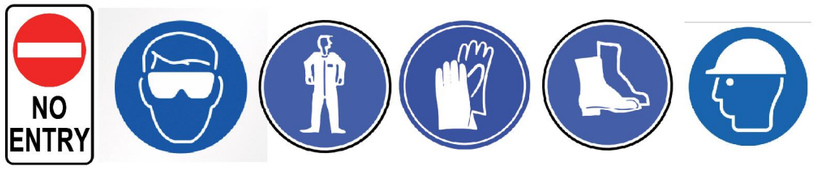
Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

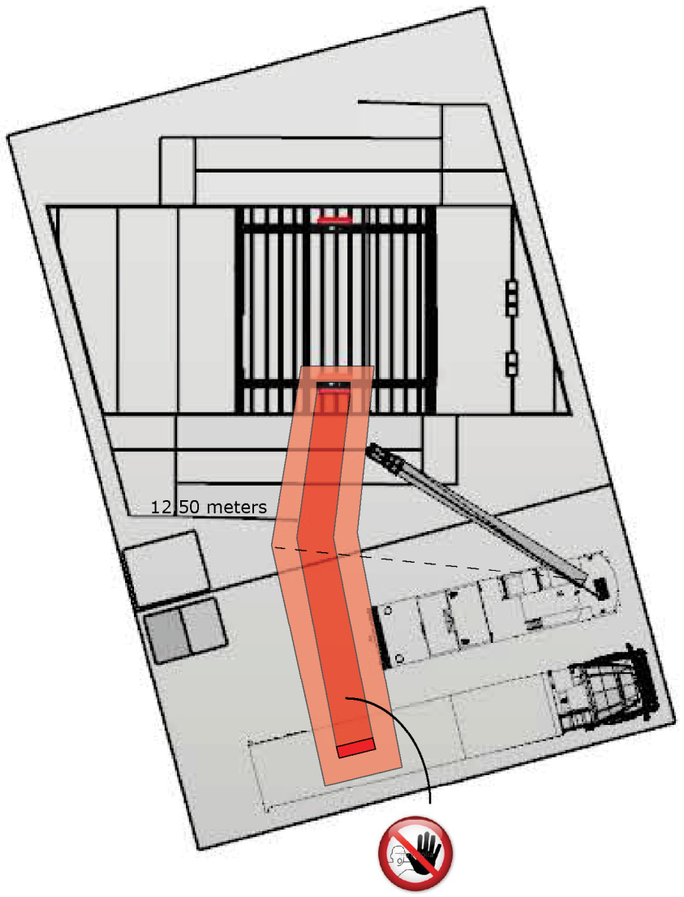
Paper Size: A3

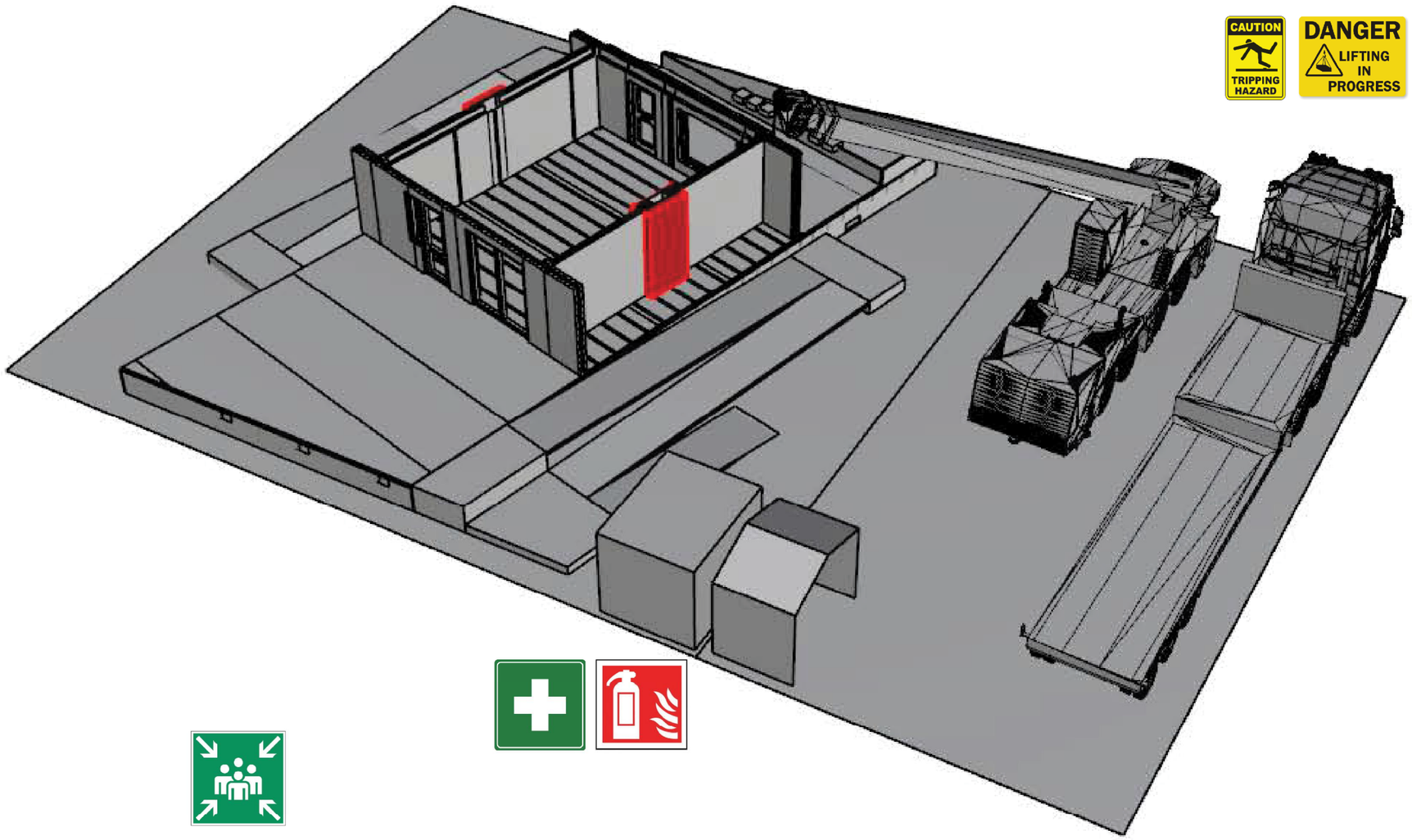
Drawing Scale: N/A

Drawing Code: HS-406

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Chimney Part	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Knocked by objects or tools	
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY CHIMNEY PARTS

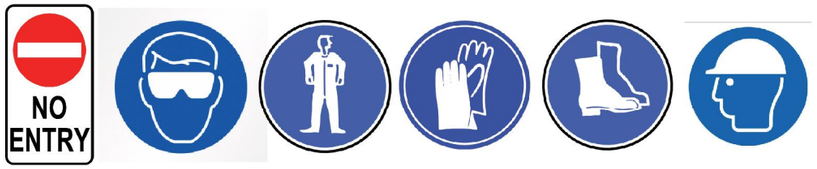
Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

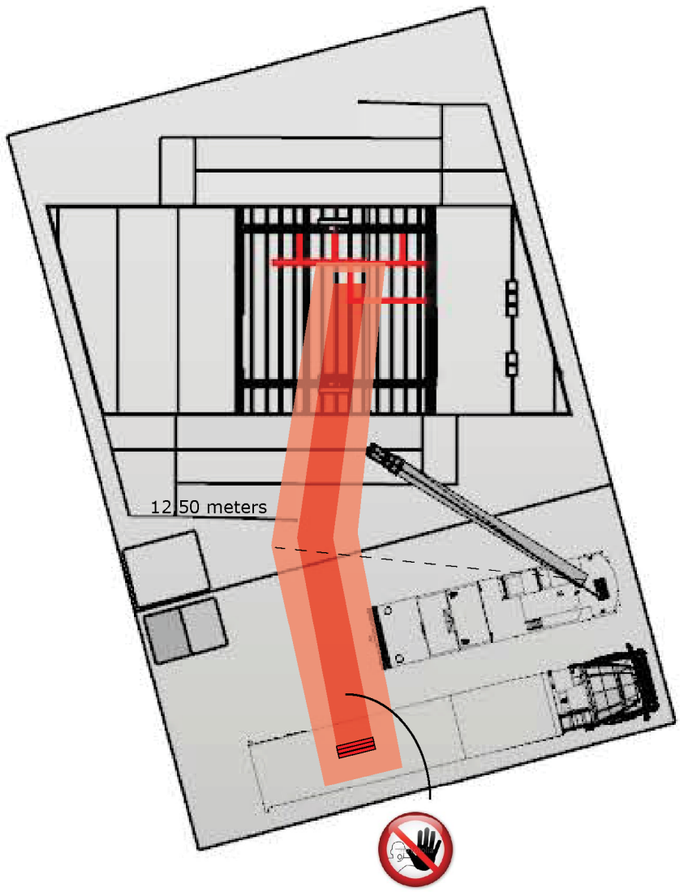
Paper Size: A3

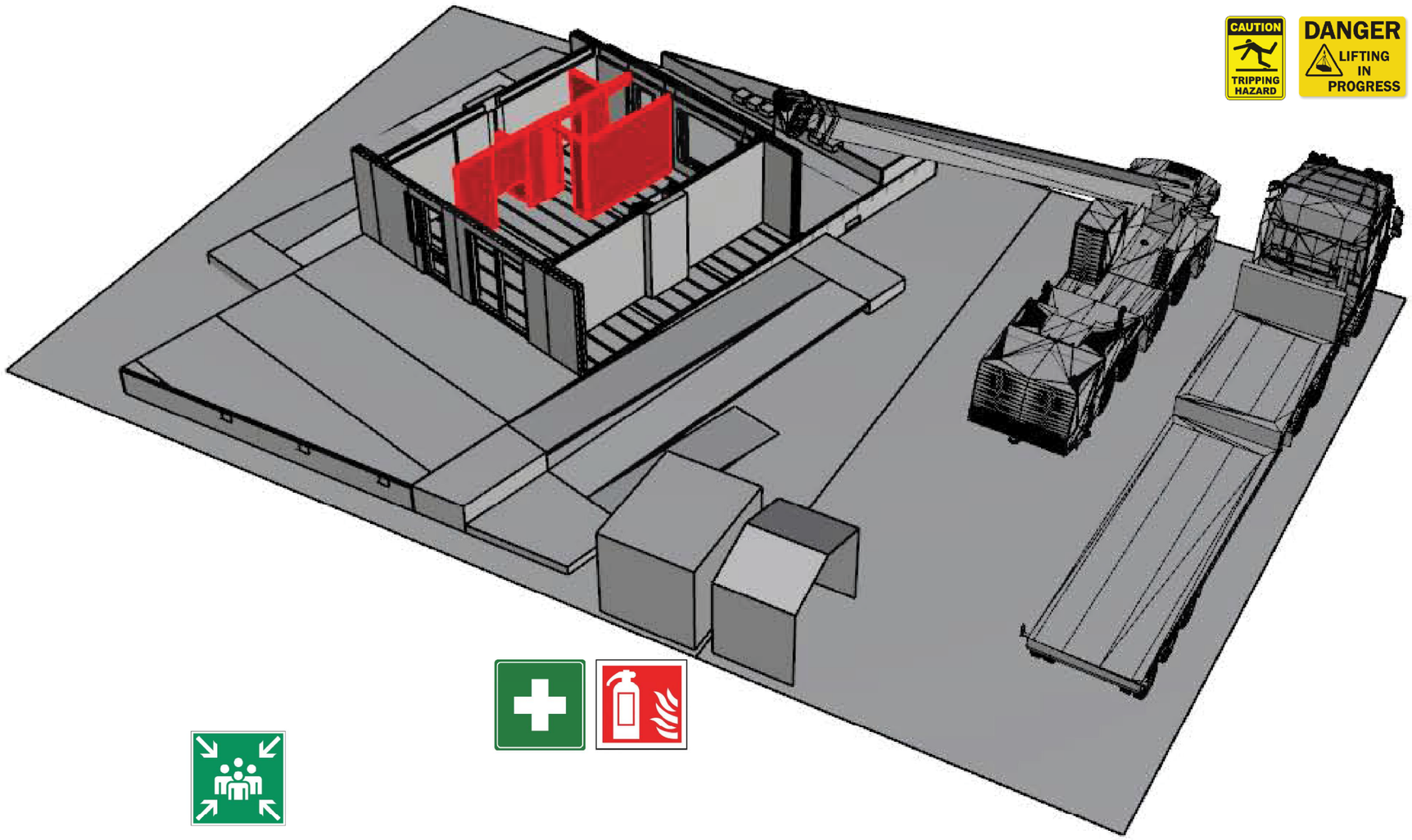
Drawing Scale: N/A

Drawing Code: HS-407

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Interior Walls (Ground Floor)	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, people walking in front and behind of the truck,marking of hazardous zones, physical closure of access points outside working hours
	Knocked by objects or tools	
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Colliding with objects in motion	
	Stepping on object	

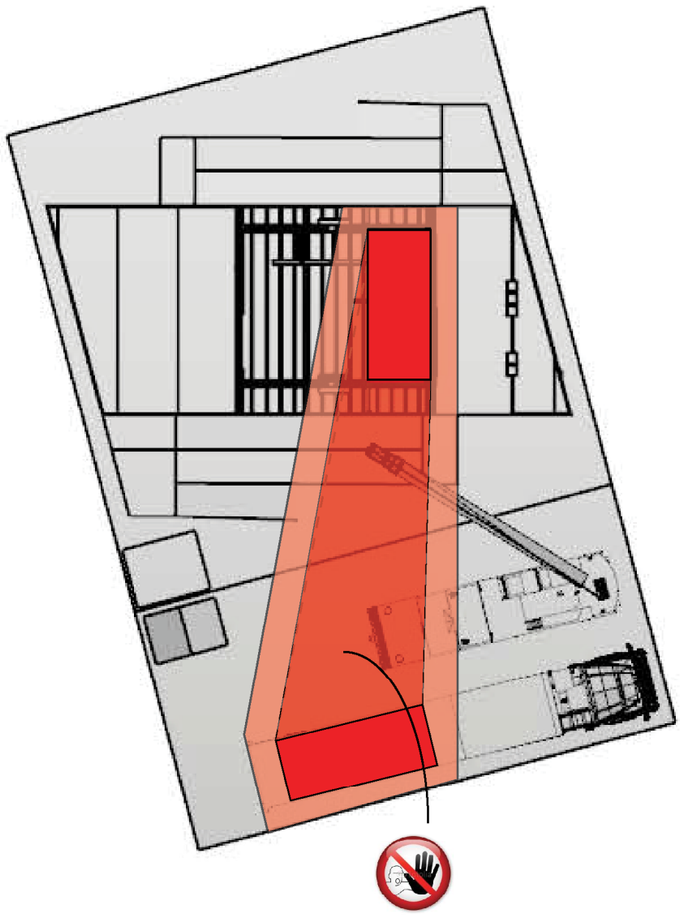
Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Block: HEALTH AND SAFETY
		Drawing Subject: ASSEMBLY / DISSASSEMBLY INTERIOR WALLS

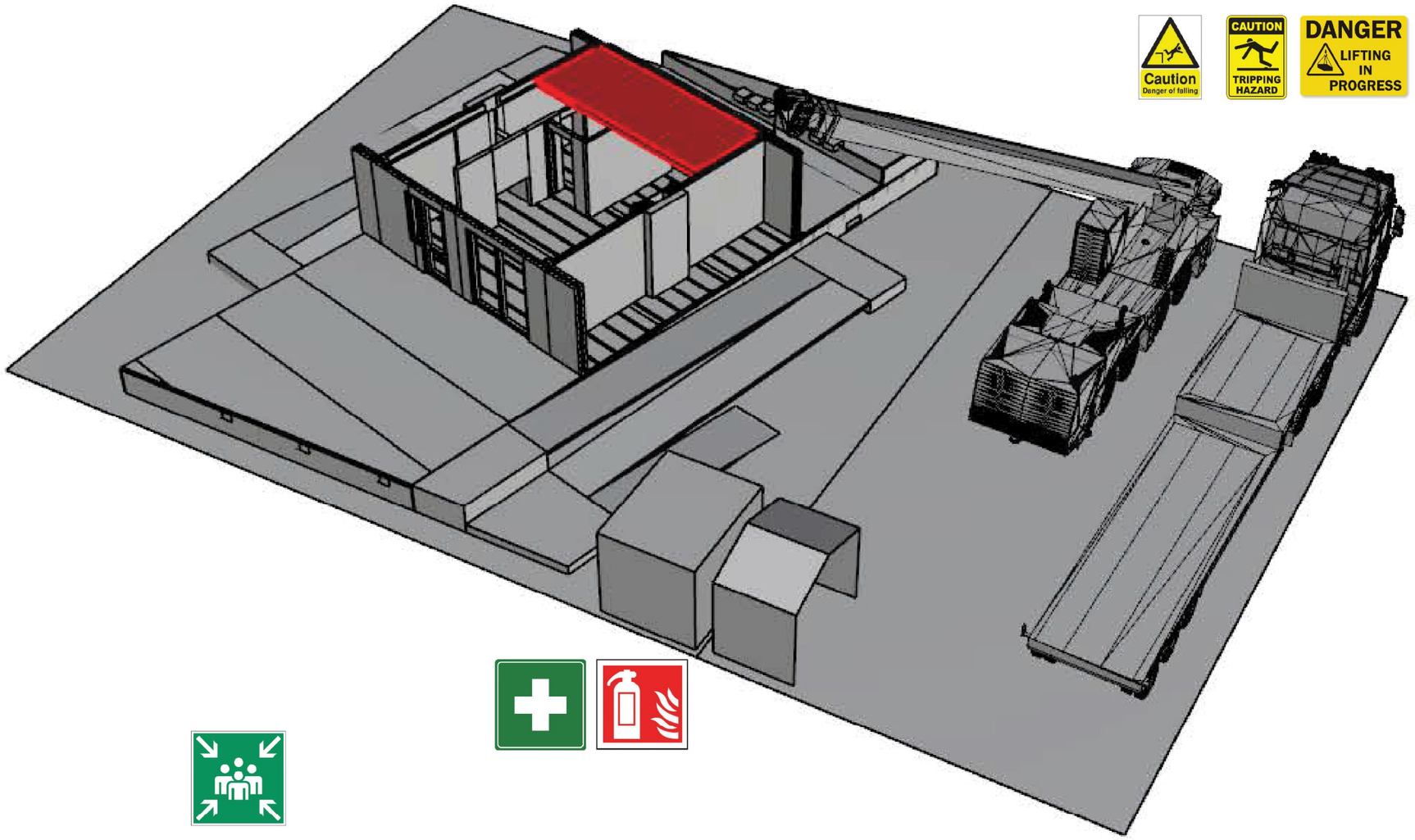
Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

Paper Size	A3
Drawing Scale	N/A
Drawing Code	HS-408

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Panels (First Floor)	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms
	Knocked by objects or tools	
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger, Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY FIRST FLOORS

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

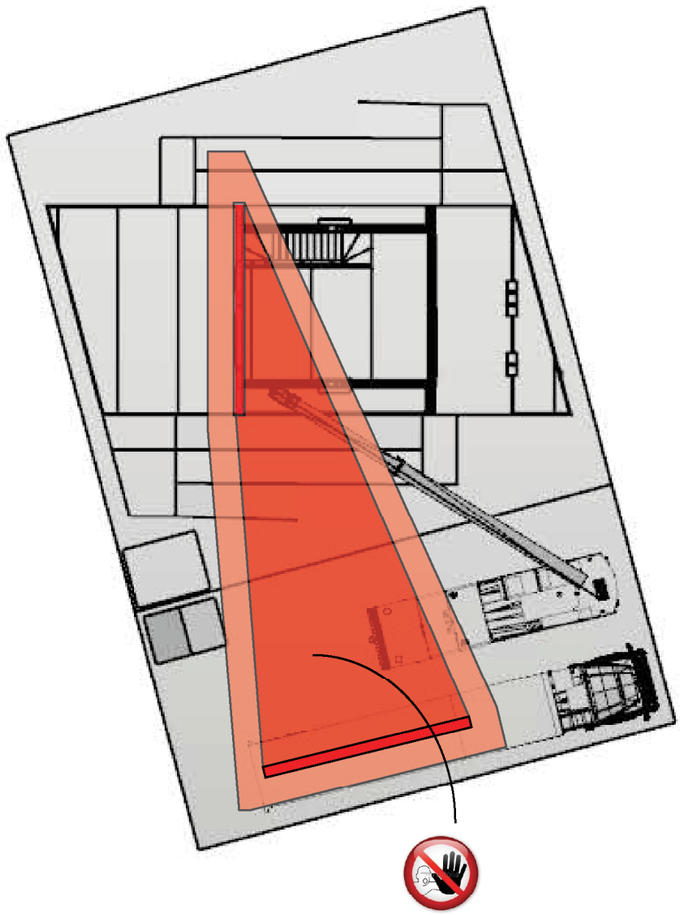
Paper Size: A3

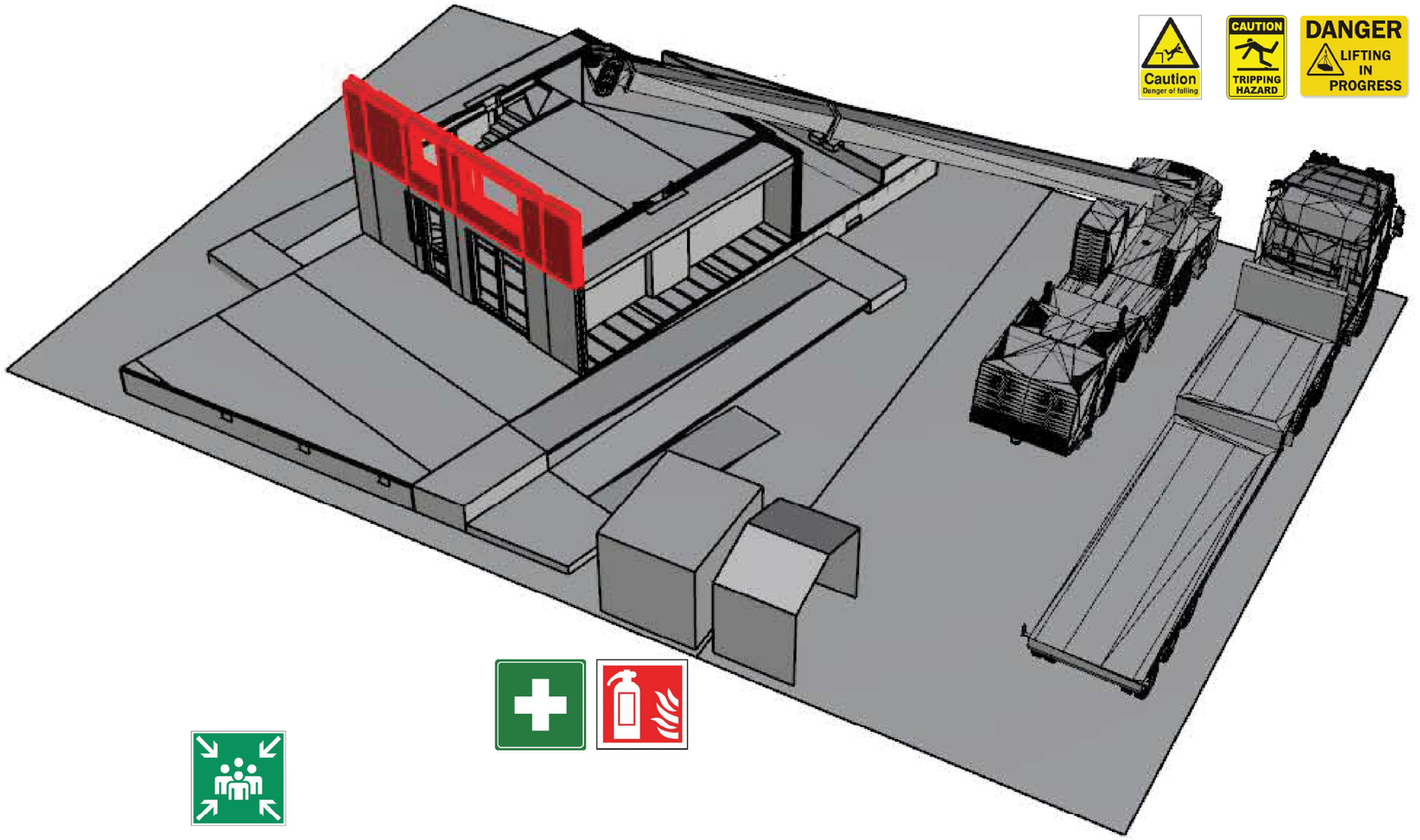
Drawing Scale: N/A

Drawing Code: HS-409

PERSONAL PROTECTIVE EQUIPMENT





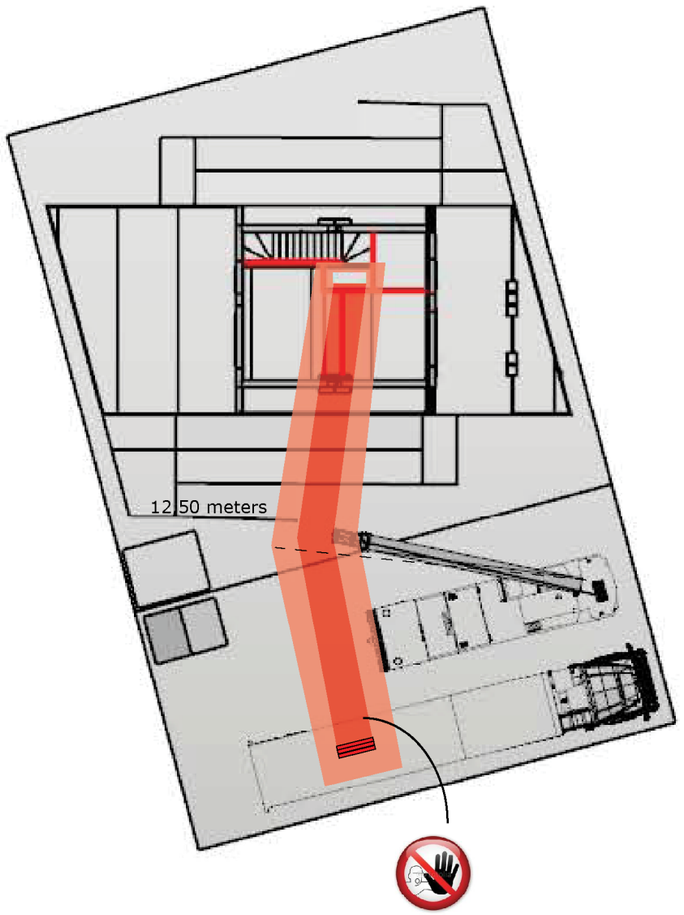


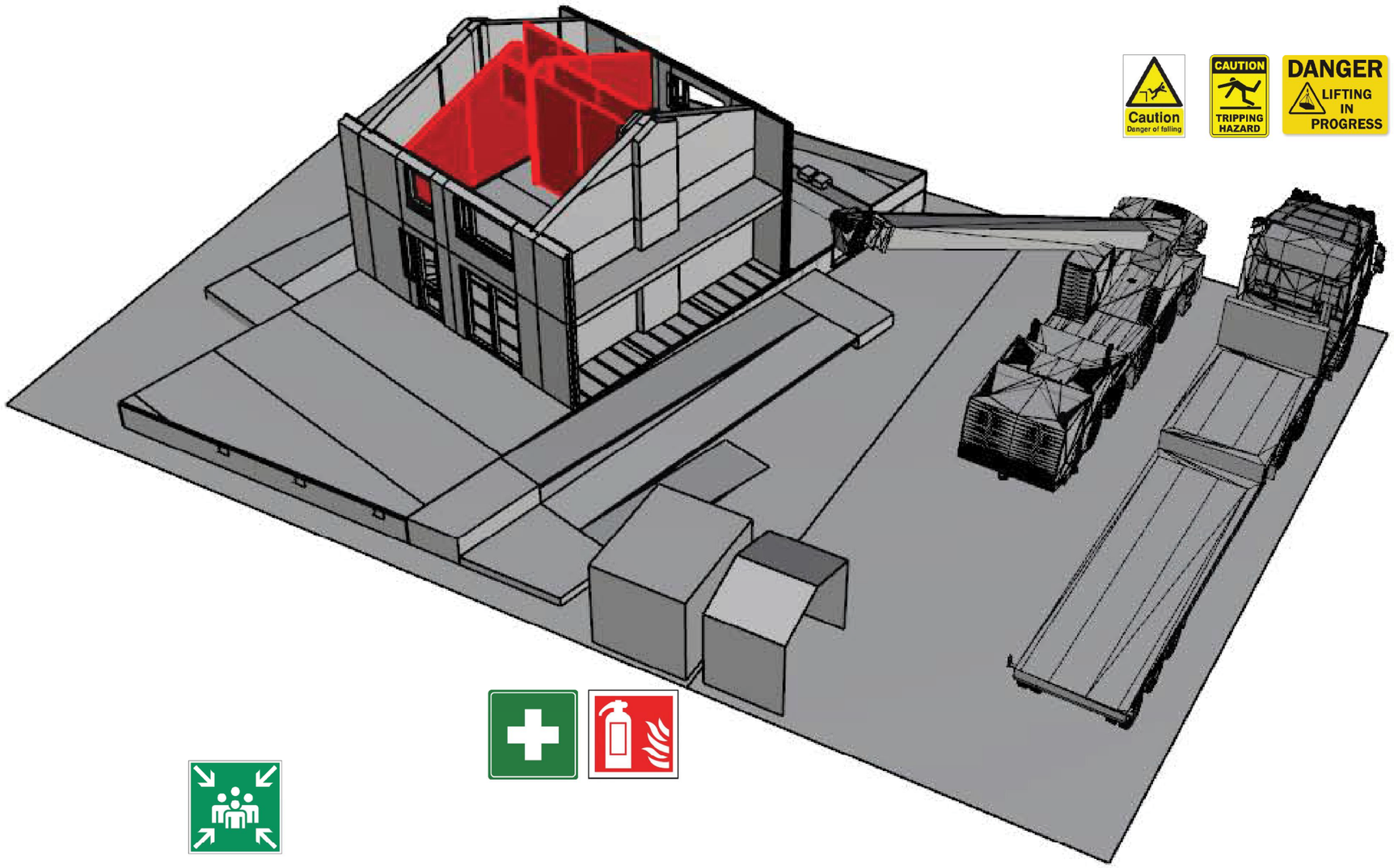
Activity	Risks	Collective Protection
Assembly of Walls (First Floor)	Knocked by objects or tools	Markings and protection of work areas, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.— - ; 3 --.--.— - ; 2 22.04.14 DEL 5 ; 1 03.03.14 DEL 4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: HEALTH AND SAFETY	Drawing Scale: N/A
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: ASSEMBLY / DISSASSEMBLY FIRST WALLS	Drawing Code: HS-410

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Walls (First Floor)	Knocked by objects or tools	Markings and protection of work areas, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms
	Fall of objects because they come loose	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY FIRST FLOOR WALLS (INTERIOR)

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

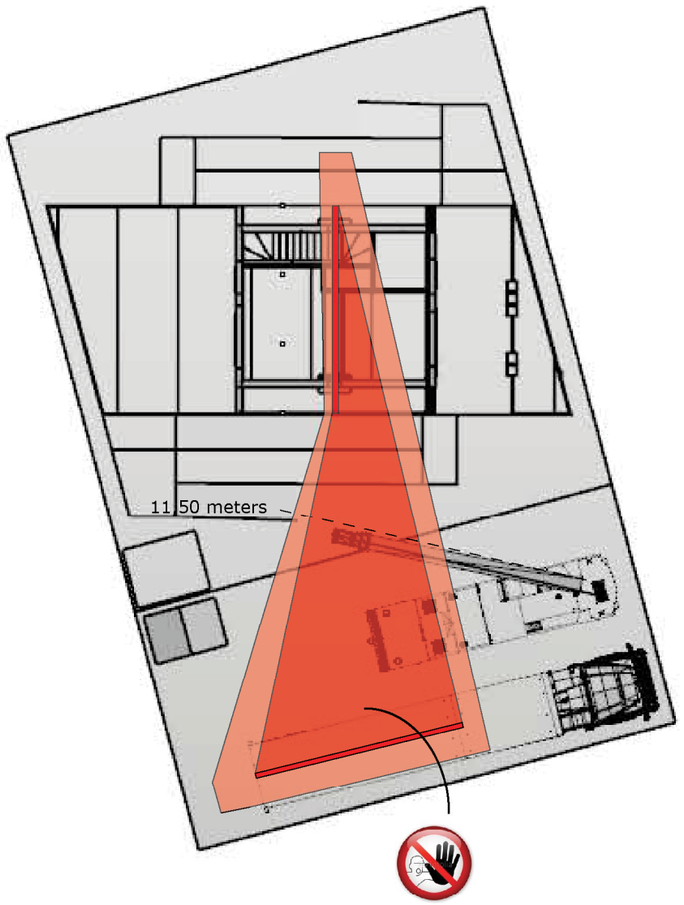
Paper Size: A3

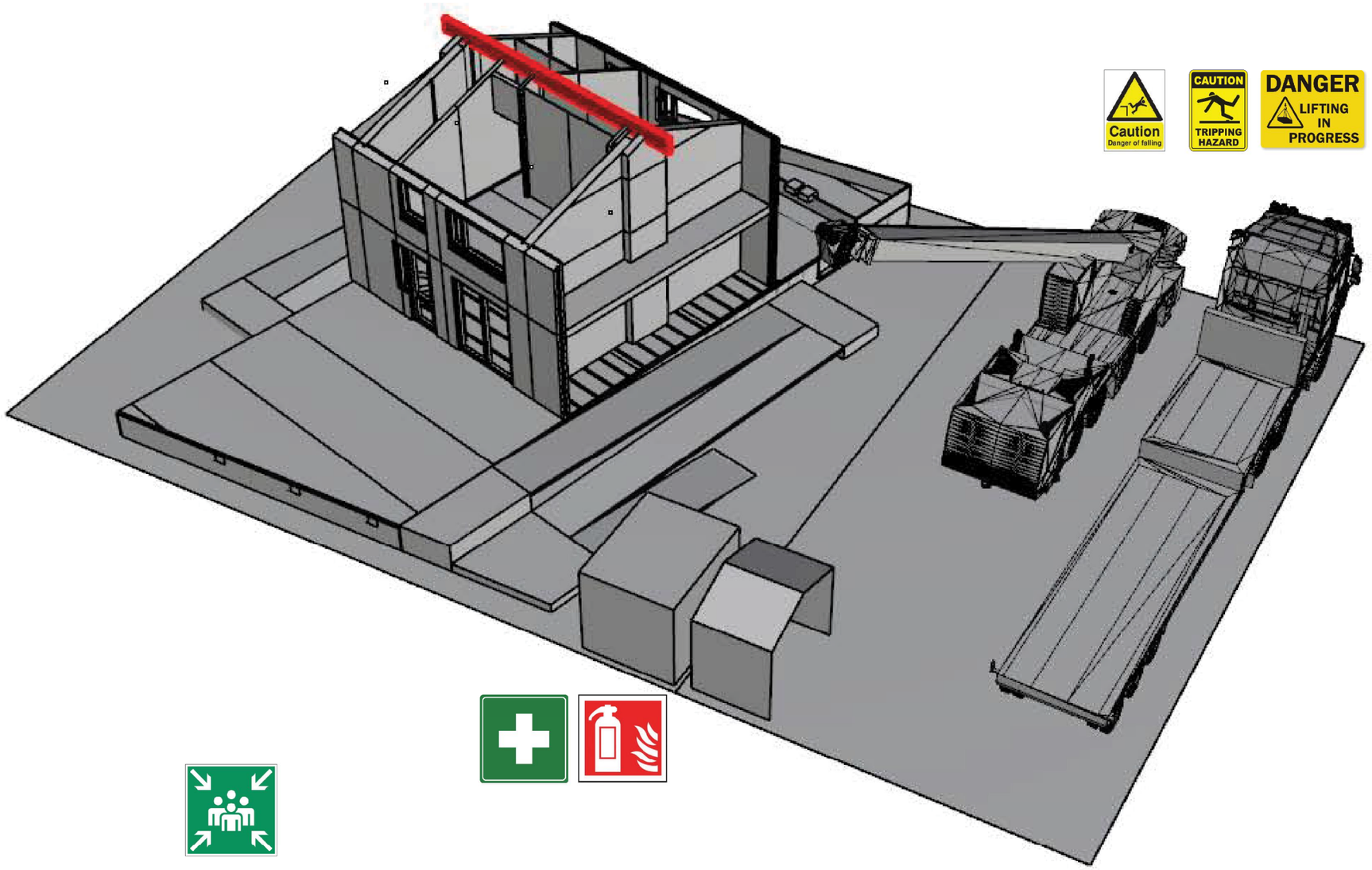
Drawing Scale: N/A

Drawing Code: HS-411

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of House (Roof Beam)	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms, provide boom lift, provide railing for roof works
	Knocked by objects or tools	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	
	Exposure to extreme environmental temperatures	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger, Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY ROOFING BEAM

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

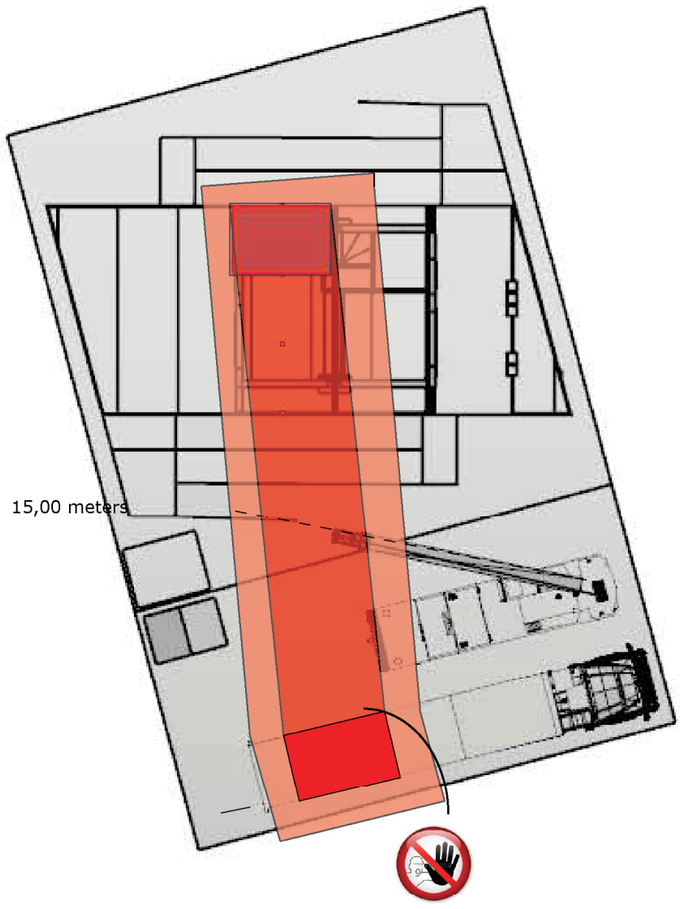
Paper Size: A3

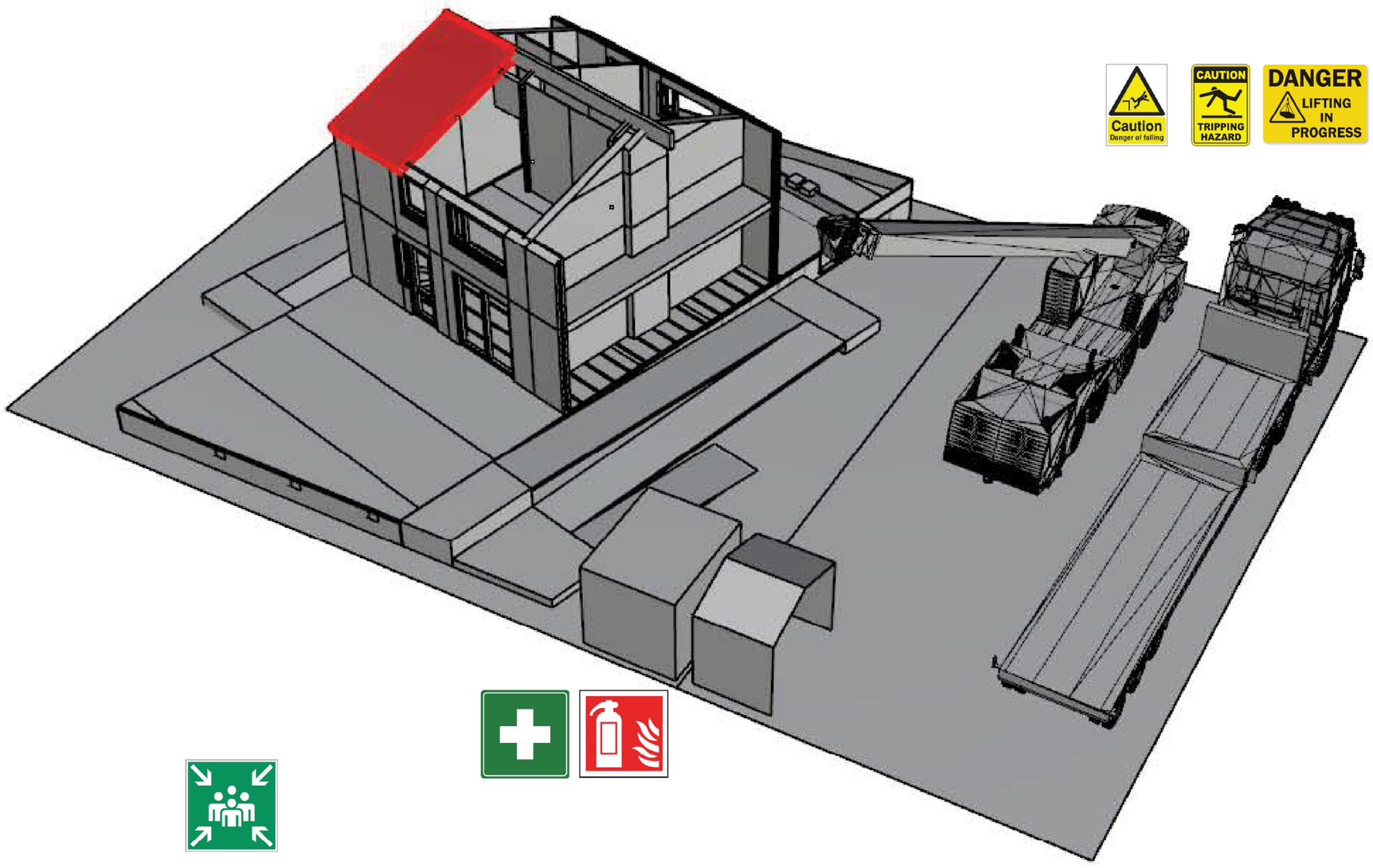
Drawing Scale: N/A

Drawing Code: HS-412

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of House (Roof)	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms, provide boom lift, provide railing for roof works
	Knocked by objects or tools	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	
	Exposure to extreme environmental temperatures	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY ROOFING

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

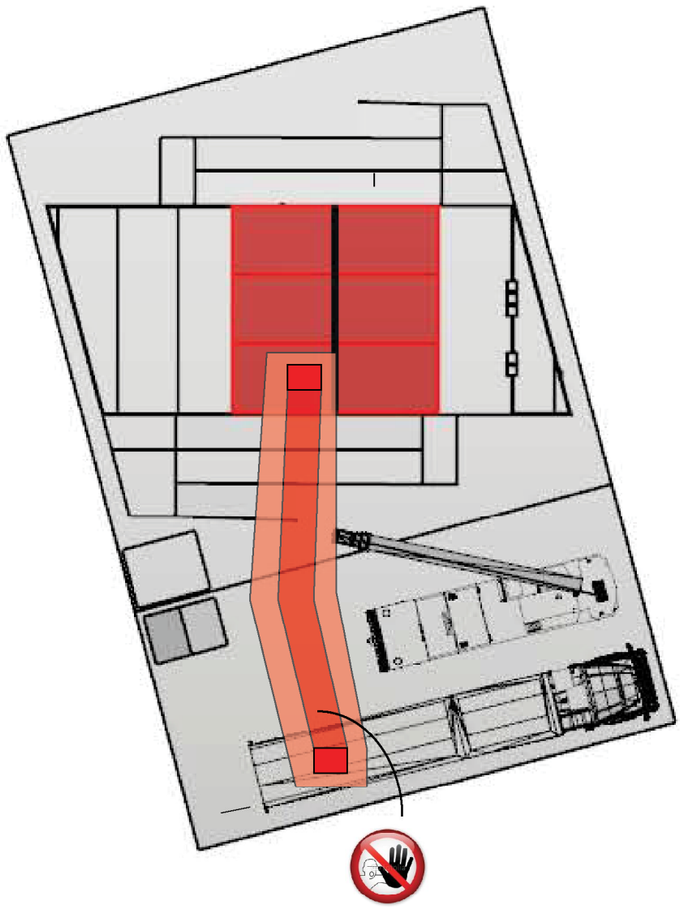
Paper Size: A3

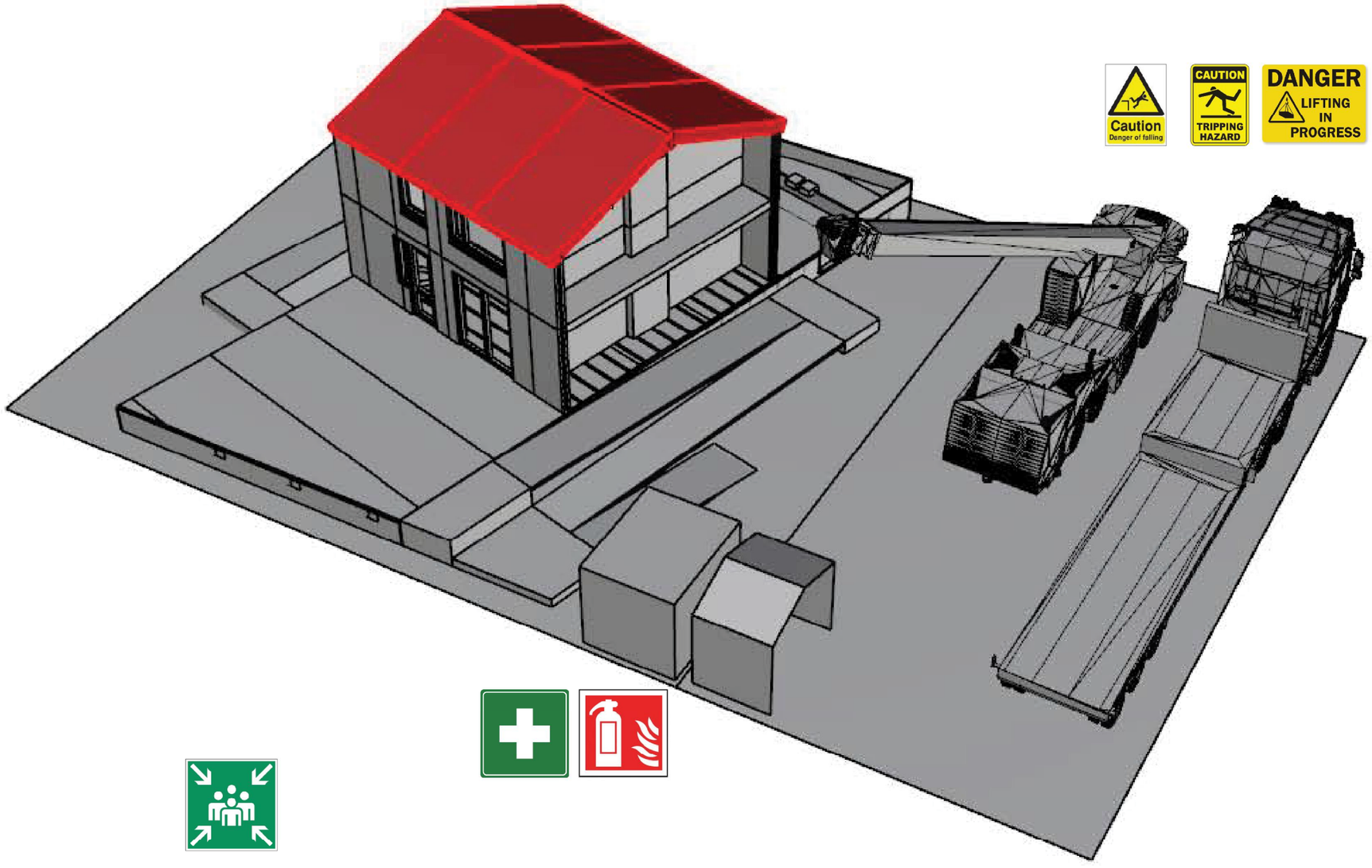
Drawing Scale: N/A

Drawing Code: HS-413

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Assembly of Green Roof and Solar Tubes	Hit by vehicles	Markings and protection of work areas, limiting on-foot personnel to activity areas where devices and trucks are operating, following of the traffic rules and being guided by visual or appropriate means of communication, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms, provide boom lift, provide railing for roof works
	Knocked by objects or tools	
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Stepping on object	
	Fire	
	Exposure to extreme environmental temperatures	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY ROOF TILING

Revisions		
4	--.--.---	-
3	--.--.---	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

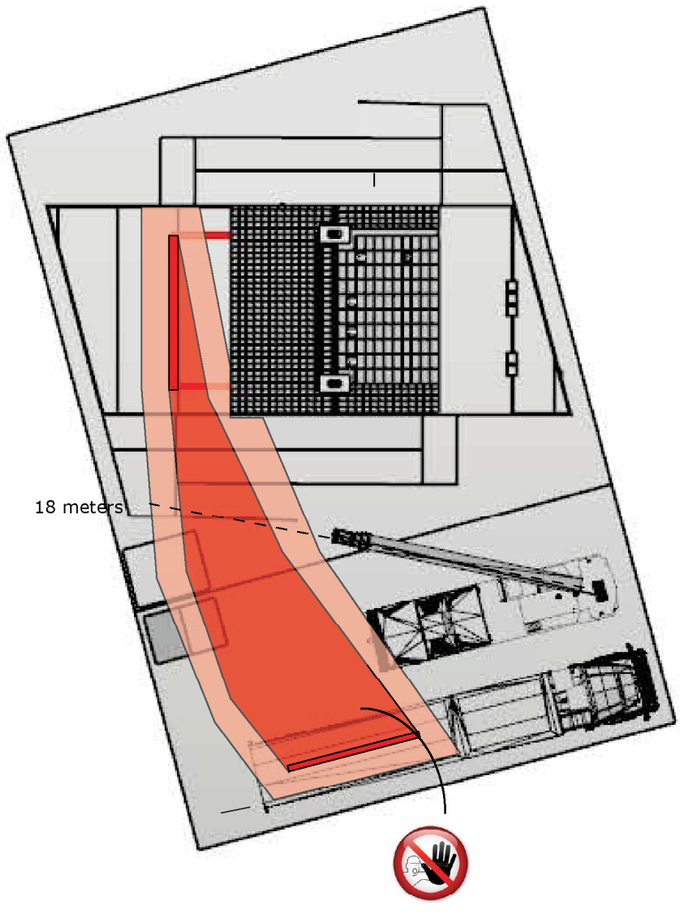
Paper Size: A3

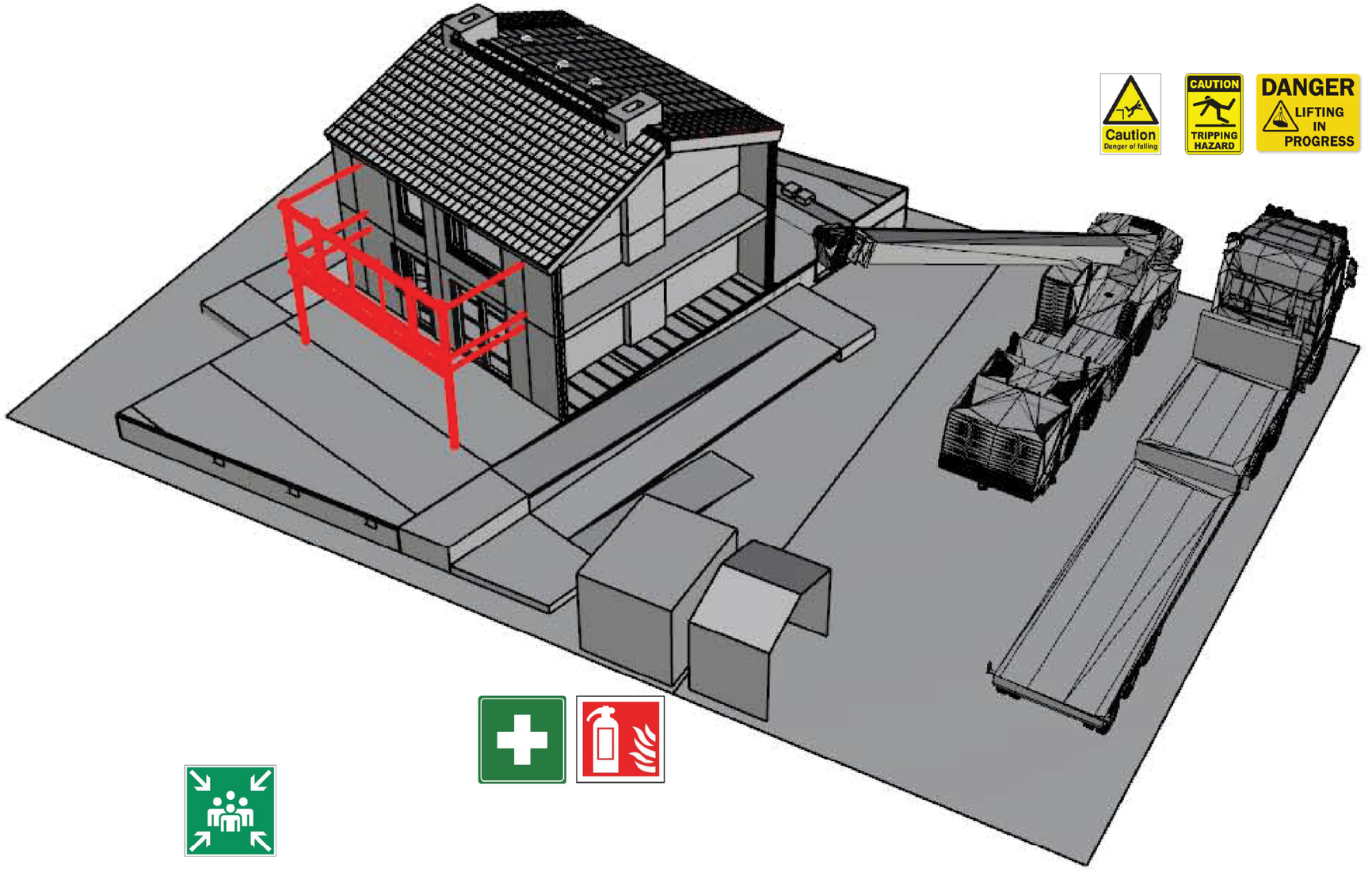
Drawing Scale: N/A

Drawing Code: HS-414

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
Glass House Frame Construction	Knocked by objects or tools	Markings and protection of work areas,clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms, provide boom lift
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Colliding with objects in motion	
	Stepping on object	
	Exposure to extreme environmental temperatures	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

Drawing Subject: ASSEMBLY / DISSASSEMBLY SKIN PLACEMENT

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

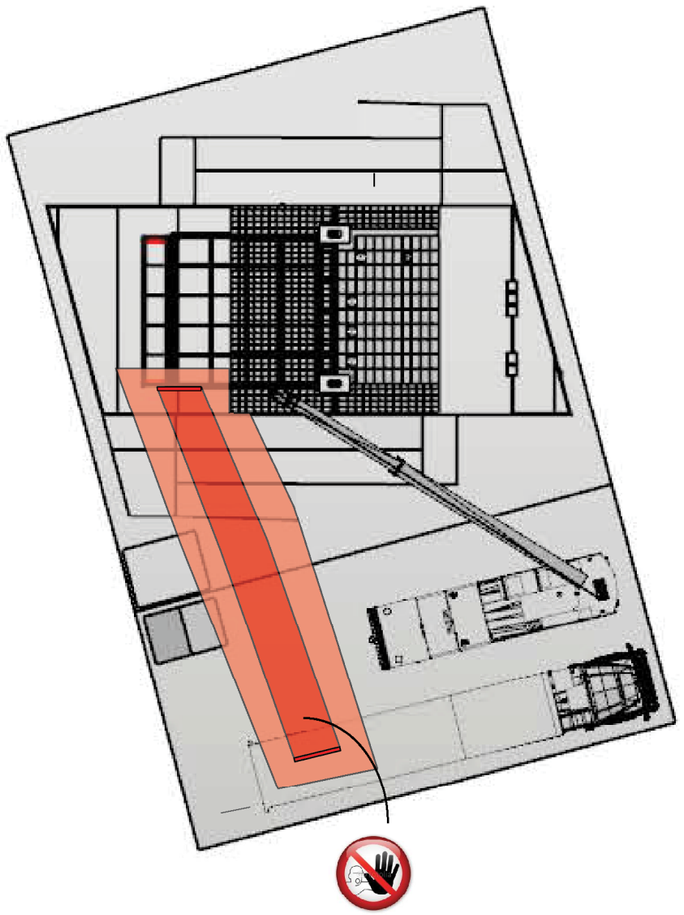
Paper Size: A3

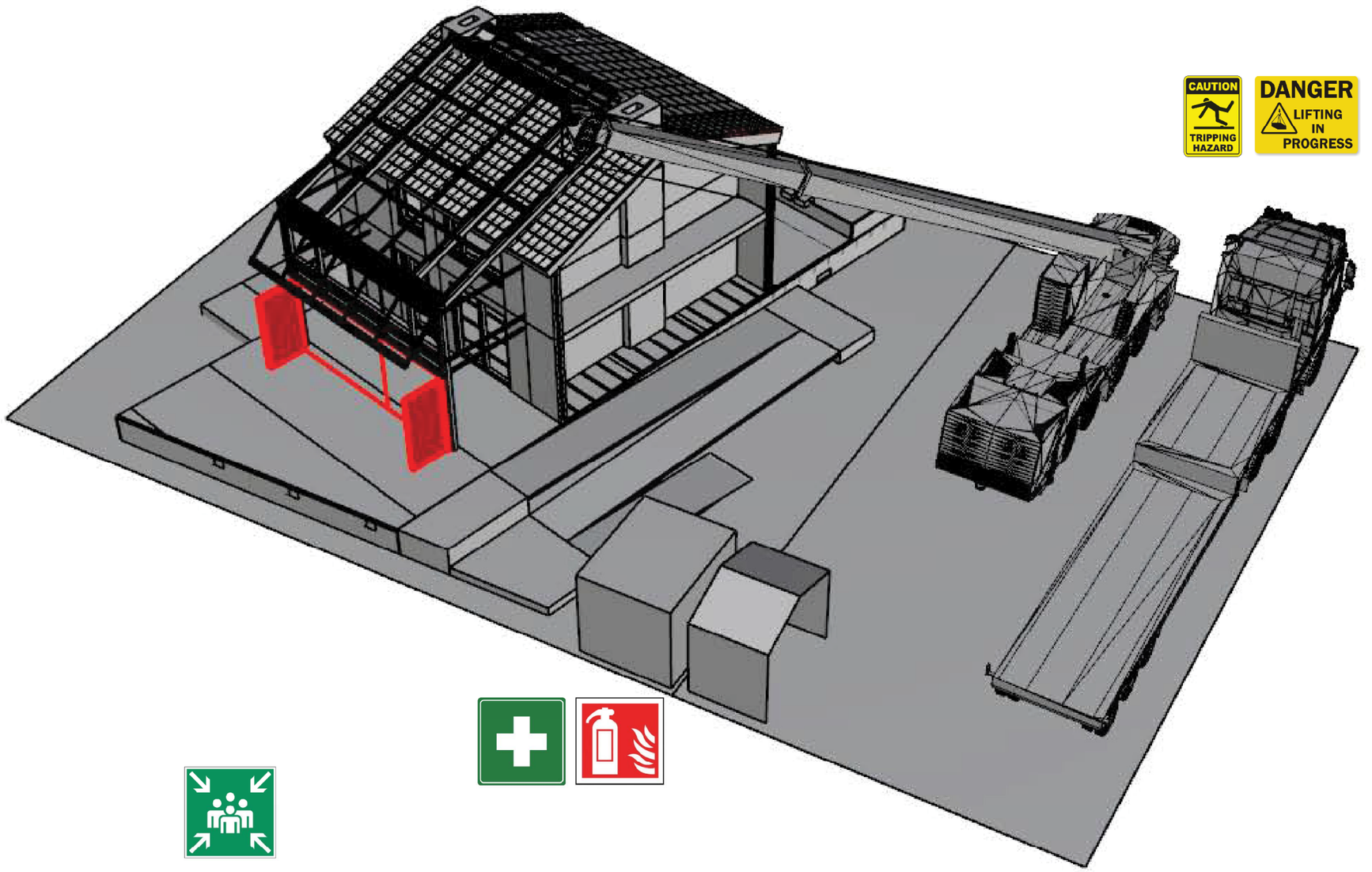
Drawing Scale: N/A

Drawing Code: HS-415

PERSONAL PROTECTIVE EQUIPMENT







Activity	Risks	Collective Protection
PV Panel Installation	Knocked by objects or tools	Markings and protection of work areas, clear communication procedure for lifting, marking of hazardous zones, physical closure of access points outside working hours, protection from falls from heights and from falling objects onto traffic areas and onto work platforms, provide boom lift, provide railing for roof works, any action on the machine must be done after neutralising command control
	Fall of objects because of collapse	
	Fall of persons at the same level	
	Fall of persons from different level	
	Colliding with objects in motion	
	Stepping on object	
	Exposure to extreme environmental temperatures	
	Exposure to electric connections	

Awarding Institution: Solar Decathlon Europe

Executing Institution: TU Delft

Participants: Prêt-à-Loger — Home with a Skin

Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE

Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR

Project Phase: CONSTRUCTION DOCUMENTATION

Drawing Block: HEALTH AND SAFETY

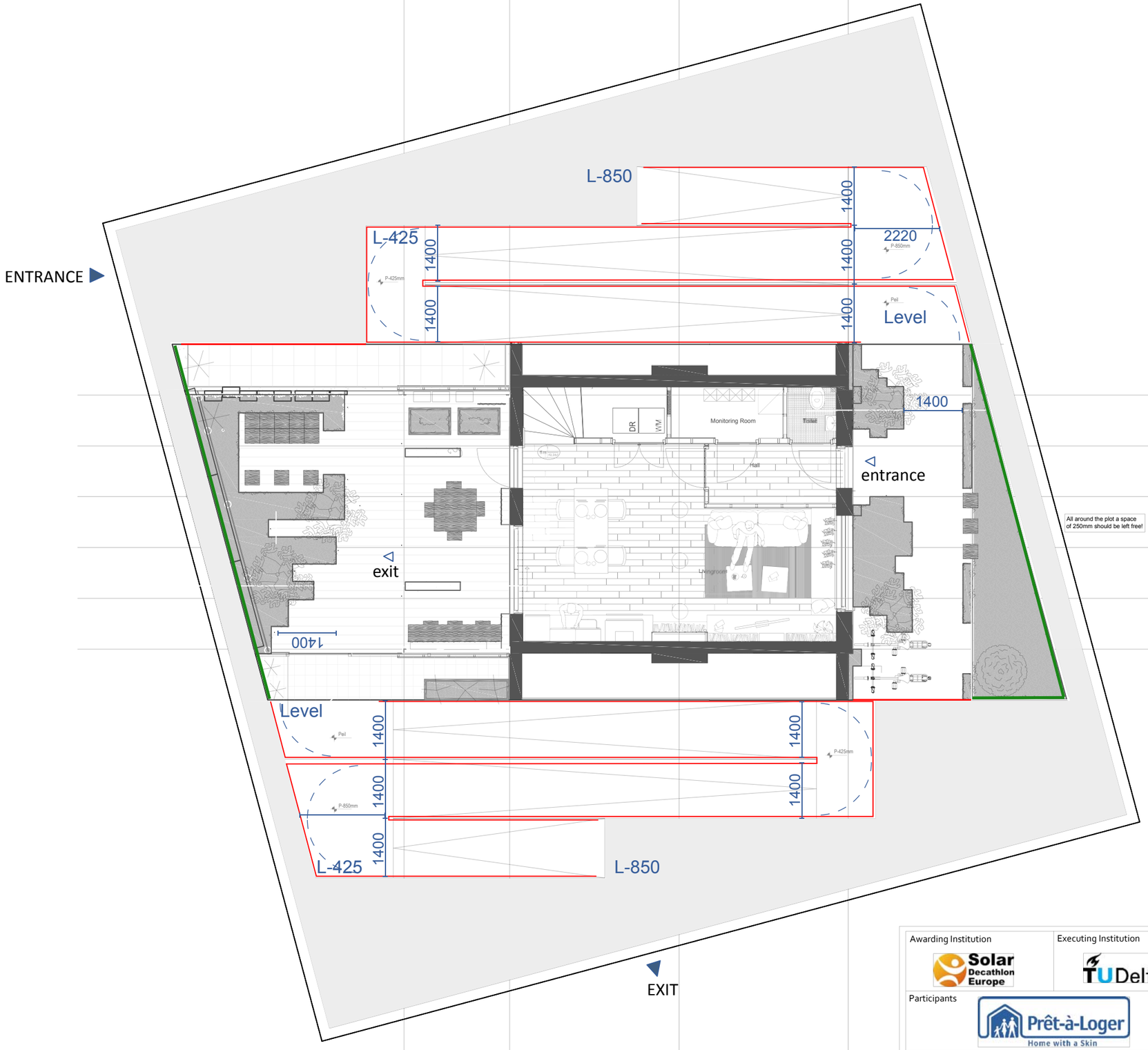
Drawing Subject: ASSEMBLY / DISSASSEMBLY FRAMING

Revisions		
4	--.--.—	-
3	--.--.—	-
2	22.04.14	DEL 5
1	03.03.14	DEL 4

Paper Size: A3

Drawing Scale: N/A

Drawing Code: HS-416



---INFORMATION---

- Entrance/ exit plot
- Entrance/ exit house
- Lower plot part
- Safety railing
- Safety boarder of green
- Turning radius

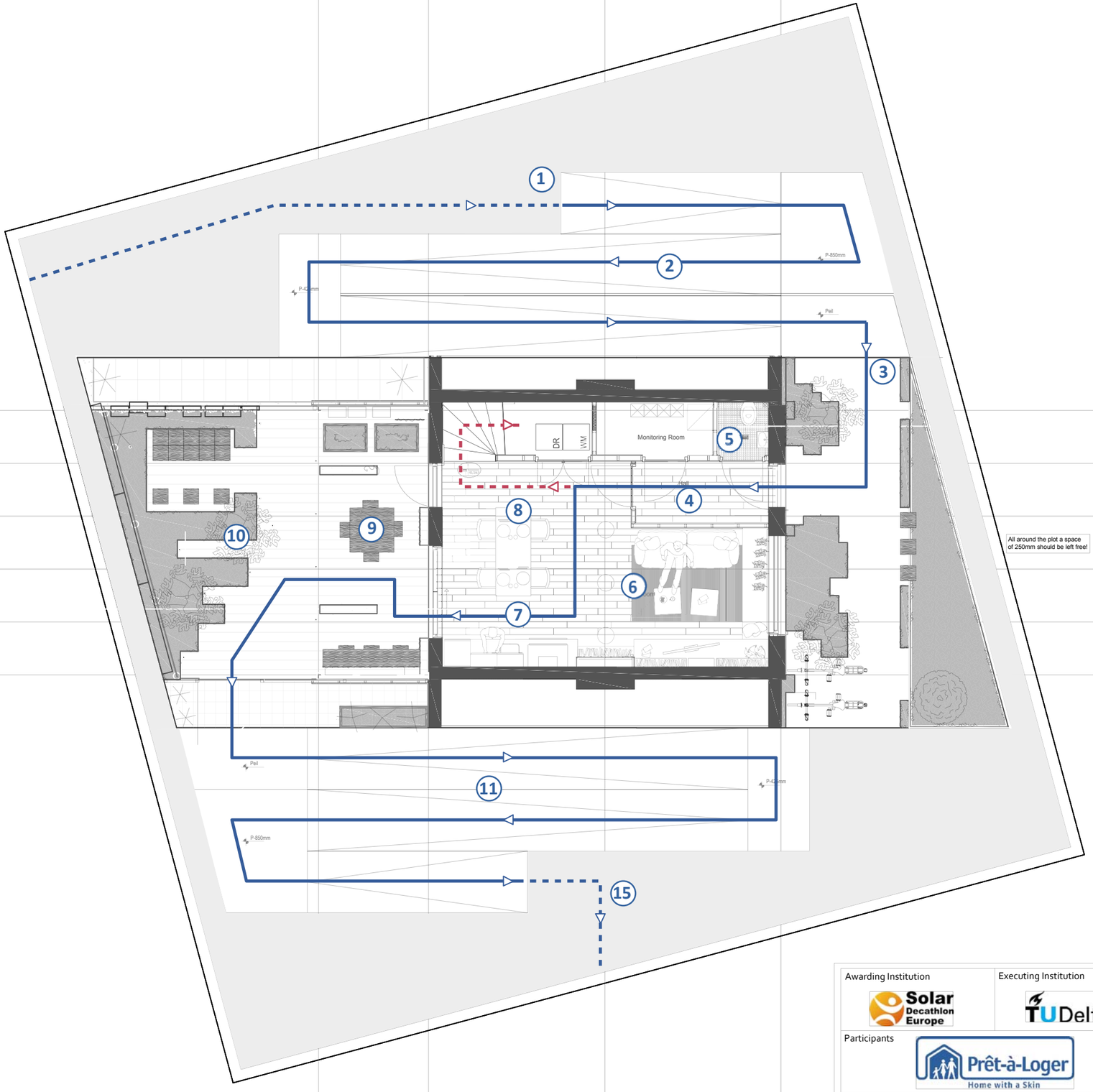
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	SITE ACCESABILITY

Revisions		
4	--.--.----	-
3	--.--.----	-
2	22.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	-001

A3



---INFORMATION---

1 Highlights

Tour walking direction

Tour extra walking direction jury

Tour walking path

Tour extra walking path jury

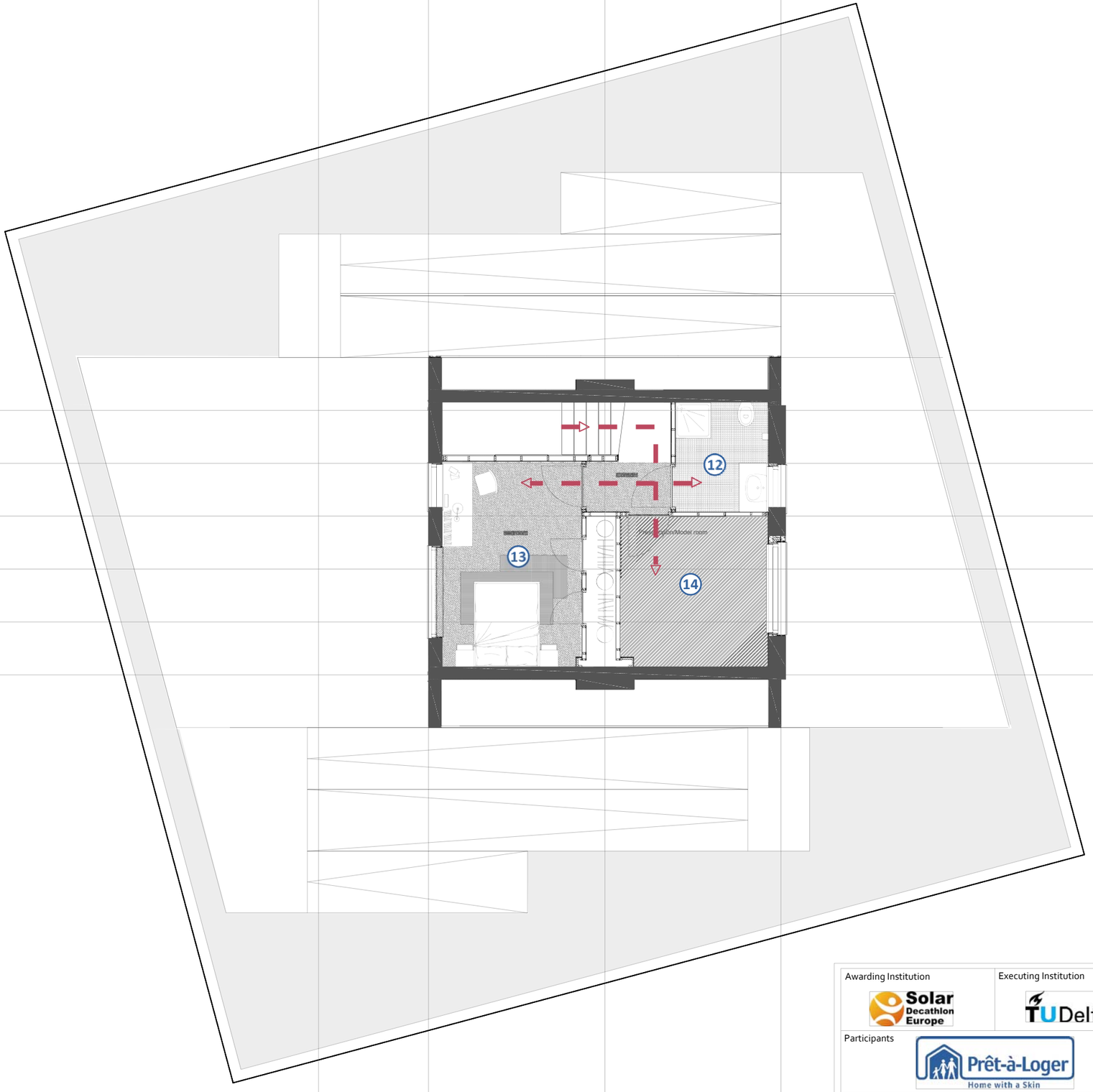
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger – Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	HOUSE TOUR FIRST FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	22.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	-101

A3



---INFORMATION---

1 Highlights

Tour extra walking direction jury

Tour extra walking path jury

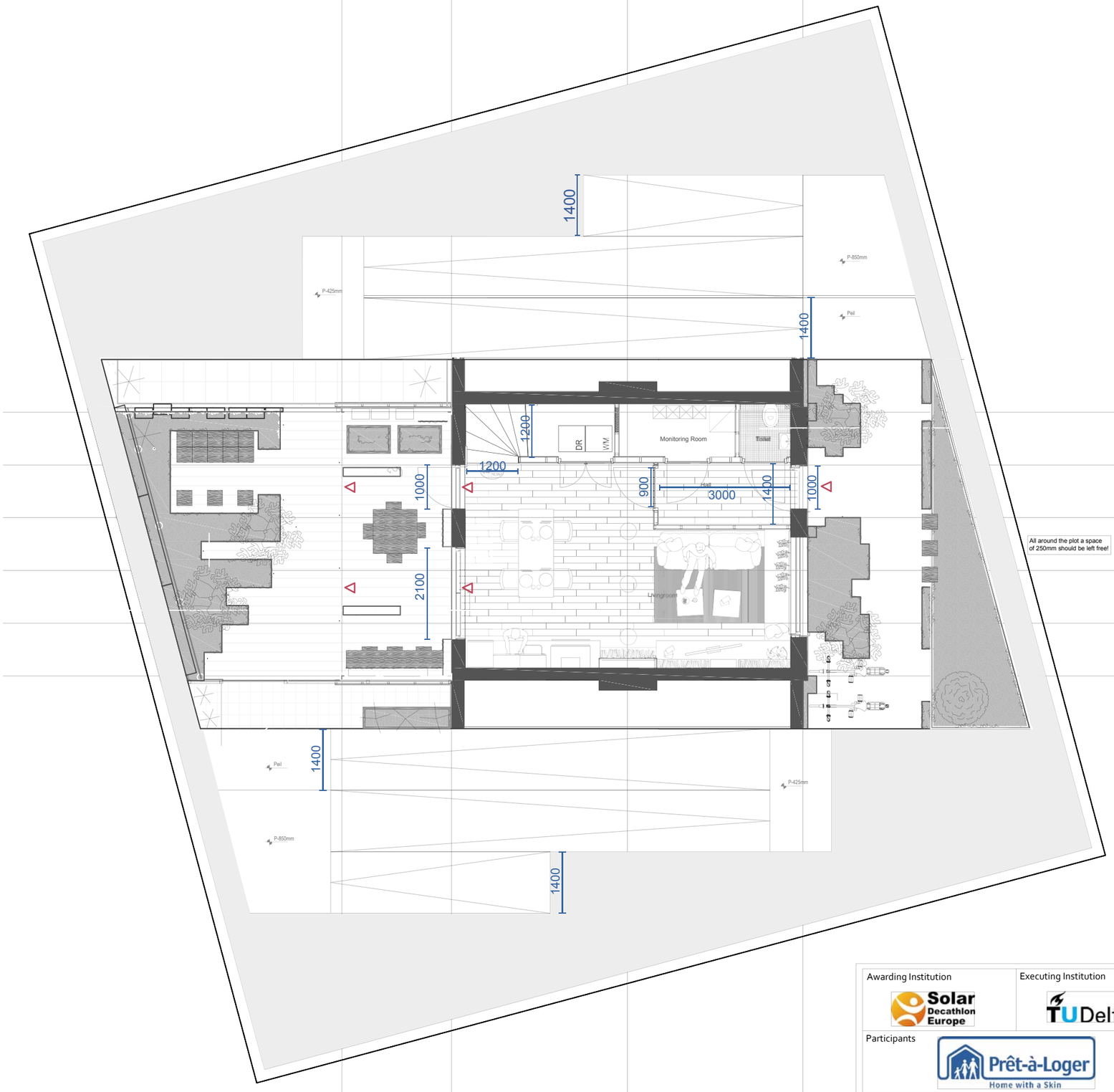
all measurements are in mm

Awarding Institution	Solar Decathlon Europe
Executing Institution	TU Delft
Participants	Prêt-à-Loger Home with a Skin
Project Title	DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE
Project Location	LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR
Project Phase	CONSTRUCTION DOCUMENTATION
Drawing Block	GENERAL DRAWINGS
Drawing Subject	HOUSE TOUR SECOND FLOOR

Revisions		
4	--.--.----	-
3	--.--.----	-
2	22.04.2014	DEL #5
1	03.03.2014	DEL #4

Paper Size	A3
Drawing Scale	1:100
Drawing Code	-102

A3



---INFORMATION---

F.F.L. notes:

Hallway:
carpet form HEUGA resistance against slip

Livingroom:
wooden flooring
small carpet HEUGA

Greenhouse floor:
wooden planks with small grooves

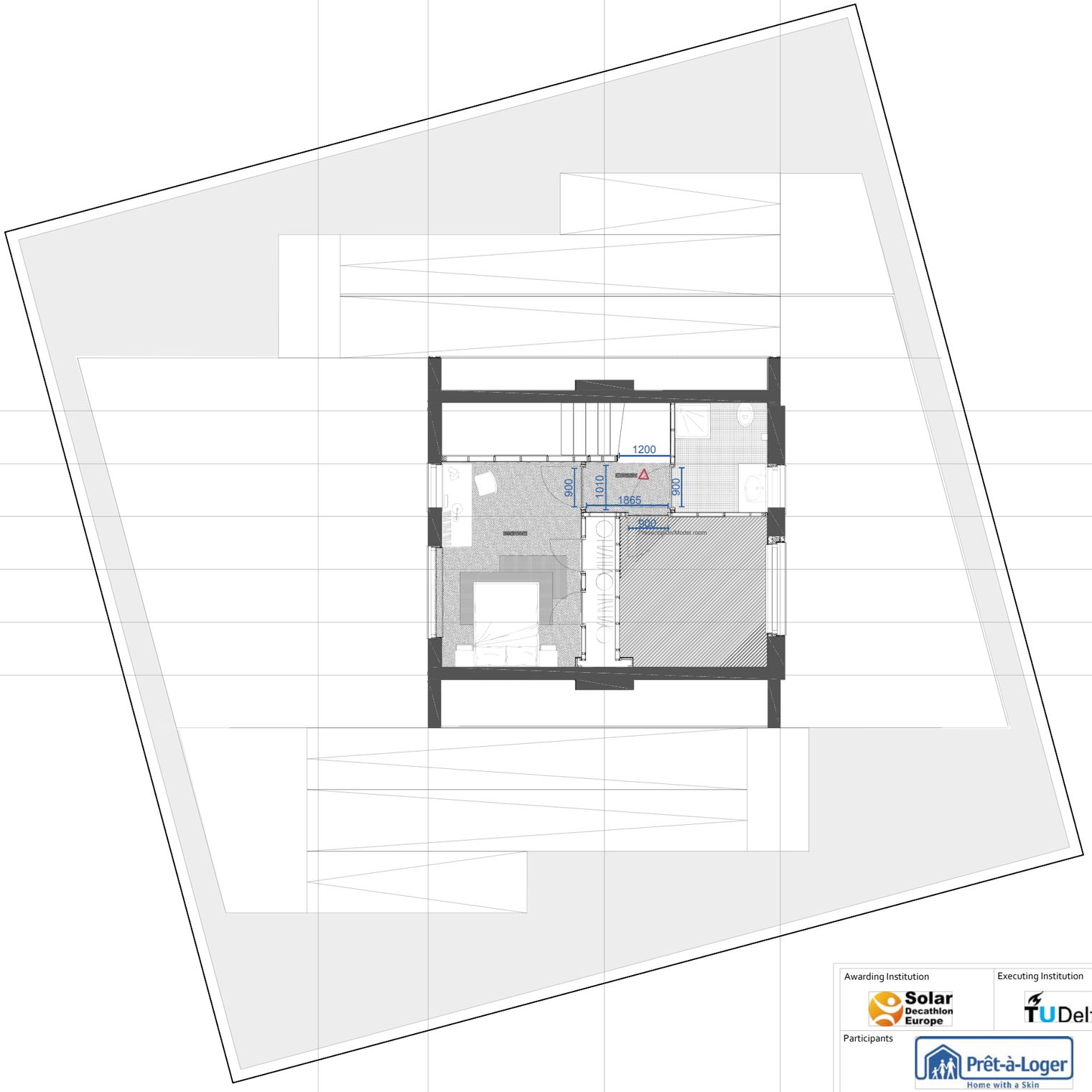
Garden flooring:
wooden planks with small grooves and lavastone parts.

▷ Exit possibilities

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 22.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:100
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: HOUSE TOUR GENERAL INFORMATION FIRST FLOOR	Drawing Code: -201

A3



---INFORMATION---

F.F.L. notes:
Bathroom:
Tiles
Hallway:
carpet form HEUGA
resistance against slip
Bedroom:
carpet form HEUGA
resistance against slip

▷ Exit possibilities

all measurements are in mm

Awarding Institution: Solar Decathlon Europe	Executing Institution: TU Delft	Project Location: LA CITÉ DU SOLEIL®, VERSAILLE, PARIS, FR	Revisions: 4 --.--.---- - / 3 --.--.---- - / 2 22.04.2014 DEL #5 / 1 03.03.2014 DEL #4
Participants: Prêt-à-Loger Home with a Skin		Project Phase: CONSTRUCTION DOCUMENTATION	Paper Size: A3
		Drawing Block: GENERAL DRAWINGS	Drawing Scale: 1:100
Project Title: DESIGN, CONSTRUCTION & EXHIBITION OF SOLAR POWERED HOUSE		Drawing Subject: HOUSE TOUR GENERAL INFORMATION SECOND FLOOR	Drawing Code: -202

A3