GROSS FLOOR AREA
84 m²

ROOM SCHEDULE

<table>
<thead>
<tr>
<th>ROOM</th>
<th>OUTLINE</th>
<th>SQUARE FOOTAGE</th>
<th>SQUARE FOOTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIVING ROOM</td>
<td>31.80 m²</td>
<td>50 m²</td>
<td>539 ft²</td>
</tr>
<tr>
<td>BEDROOM</td>
<td>10.70 m²</td>
<td>6 m²</td>
<td>68 ft²</td>
</tr>
<tr>
<td>BATH</td>
<td>6.58 m²</td>
<td>3 m²</td>
<td>31 ft²</td>
</tr>
</tbody>
</table>

FINISHED SQUARE FOOTAGE
COMPLIANCE PLAN
G-101
1. PRIMARY ENTRY/EXIT TO HOUSE
2. EQUIPMENT - TOUR ROUTE
3. ALL TURNING CIRCLES COMPATIBLE WITH ICC
4. SLOPE OF RAMP COMPATIBLE WITH ICC

REFERENCE KEYNOTES
4 PRIMARY ENTRY/EXIT TO HOUSE
5 SITE ENTRY/EXIT - TOUR ROUTE
66 ALL TURNING CIRCLES COMPATIBLE WITH ICC
70 SLOPE OF RAMP COMPATIBLE WITH ICC

GENERAL SHEET NOTES

ALL PLANS ARE DRAWN IN METRIC SYSTEM (M/CM)

DATE: 23.08.2013
TIME: 05:05:40

TEAM NAME: VIENNA UNIVERSITY OF TECHNOLOGY
TEAM AUSTRIA
CHECKER:

ADDRESS: FLORAGASSE 7 / 4 / ZI 407
1040 VIENNA
AUSTRIA

CONTACT: OFFICE@SOLARDECATHLON.AT
WWW.SOLARDECATHLON.AT

SHEET TITLE: ADA TOUR ROUTE
G-103

REFERENCE KEYNOTES

4 PRIMARY ENTRY/EXIT TO HOUSE
5 SITE ENTRY/EXIT - TOUR ROUTE
66 ALL TURNING CIRCLES COMPATIBLE WITH ICC
70 SLOPE OF RAMP COMPATIBLE WITH ICC

GENERAL SHEET NOTES

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WWW.SOLARDECATHLON.AT

SHEET TITLE: ADA TOUR ROUTE
G-103
H-101 LIQUID LOCATION AND SPILL CONTAINMENT
L-103 - RAINWATER IRRIGATION
L-602 - RAINWATER ISOMETRIC
M-101 - HVAC DISTRIBUTION
Multifloor air channels
<table>
<thead>
<tr>
<th>Kabelbezeichnung nach Spannungsebenen</th>
<th>Klemmenbezeichnung nach Spannungsebenen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hauptstromkreis 400/230V AC</td>
<td>ILLUMINANT (ANY TYPE)</td>
</tr>
<tr>
<td>Schutzleiter PE</td>
<td>RELAY COIL</td>
</tr>
<tr>
<td>Hauptstromkreis 400/230V AC</td>
<td>RELAY CONTACT</td>
</tr>
<tr>
<td>Schutzleiter +24V DC</td>
<td>SOCKET</td>
</tr>
<tr>
<td>Hauptstromkreis 400/230V AC</td>
<td>ROLLER SHUTTER MOTOR</td>
</tr>
<tr>
<td>Steuerstromkreis 24V DC</td>
<td>HYDRAULIC PUMP</td>
</tr>
<tr>
<td>Schutzleiter PE</td>
<td>PLC OUTPUT/INPUT</td>
</tr>
</tbody>
</table>

## Kabeldefinition

<table>
<thead>
<tr>
<th>Kabeldefinition</th>
<th>Aderfarbe</th>
<th>Dimension von Ader</th>
<th>Verwendet für</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aderfarbe</td>
<td>Aderfarbe</td>
<td>Dimension von Ader</td>
<td>Verwendet für</td>
</tr>
</tbody>
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## Datenkabel (LAN + Koax)

<table>
<thead>
<tr>
<th>Kabelbezeichnung nach Spannungsebenen</th>
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</tr>
<tr>
<td>Schutzleiter PE</td>
<td>PLC OUTPUT/INPUT</td>
</tr>
</tbody>
</table>

## Legenden

- **ILLUMINANT (ANY TYPE)**
- **RELAY COIL**
- **RELAY CONTACT**
- **SOCKET**
- **ROLLER SHUTTER MOTOR**
- **HYDRAULIC PUMP**
- **PLC OUTPUT/INPUT**
THE 8.4 KWP PV SYSTEM OF LISI REQUIRES TWO INVERTERS. ONE INVERTER IS RATED AT 3 KW, THE OTHER ONE AT 5 KW.

BOTH INVERTERS ARE LOCATED IN A WELL-AERATED EXTERNAL CABINAT LOCATED AT THE NORTH FACADE OF THE BUILDING. THE CABINET WILL NOT BE EXPOSED TO DIRECT SUNLIGHT. SPACING FROM THE WALLS AND BETWEEN THE INVERTERS PROVIDING FOR ENOUGH VENTILATION AND SPACE FOR CABLES HAVE BEEN CONFIRMED WITH THE INVERTER MANUFACTURER FRONIUS. (IN LEFT AND RIGHT FROM THE WALLS, 2 IN FROM THE CEILING, 6 IN FROM THE BOTTOM). THE INVERTERS ARE POSITIONED VERTICALLY ONE ABOVE THE OTHER. SHORT CABLE LENGTHS FROM THE ROOF CAN BE REALIZED WITH THIS INVERTER LOCATION.
FROM US GRID
230 VAC / 50 Hz

ORGANIZER SUPPLIED GROUNDING

RCCB

-F01
30mA
max. 80A

-L1/E604.1
-N1/E604.1

-EARTH_BAR

-F00
-EARTH

-X2.00

+2BJY14
24V POWER SUPPLYS
24V POWER SUPPLYS LIGHTS
VOLTAGE MEASURING CURRENT TRANSDUCTER
DISHWASHER, FRIDGE
KITCHEN
THREE-WIRE DIAGRAMM KITCHEN

Sockets Kitchen Left

Sockets Kitchen Right

Sockets Kitchen Island
THREE-WIRE DIAGRAMM
BATHROOM

- T24
- X2.2
- W232
- X2.2
- W231
- X31
- H31
LIGHTS

T24/E631.7
T24H/E631.7
- F10L/E605.5
- F10N/E605.5
- T24I/E631.7
- T24K/E631.7
- X2.2
- W232
- X2.2
- W231
- X31
- H31

L1I
K
L1K
L

+ BATHROOM

PE
D+D
N
N
PE
PE

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK

VUT TEAM AUSTRIA
FLORAGASSE 7 / 4 / ZI 407
1040 VIENNA
AUSTRIA
OFFICE@SOLARDECATHLON.AT
WWW.SOLARDECATHLON.AT

MARK DATE DESCRIPTION

23.08.2013 05:05:10
THREE-WIRE DIAGRAMM
TECHNICAL ROOM

DOMESTIC HOT WATER HEAT PUMP
AIR/WATER HEAT PUMP
ENERGY RECOVERY VENTILATOR
KL3403 power measurement terminals

F04N2/E629.7
F04L2/E629.7
-K128
L1 L2 L3 N
IL1 IL2 IL3 IN
T28K/E612.5
T28K/E612.1
T27K/E612.1
-K129
L1 L2 L3 N
IL1 IL2 IL3 IN
T29K/E613.1
T29K/E613.1
T27K/E613.1
-K130
L1 L2 L3 N
IL1 IL2 IL3 IN
T30K/E613.1
T30K/E613.1
T27K/E613.1
-K131
L1 L2 L3 N
IL1 IL2 IL3 IN
T31K/E612.3
T31K/E612.3
T27K/E612.3
-K132
L1 L2 L3 N
IL1 IL2 IL3 IN
T32K/E626.6
T32K/E626.6
T27K/E626.6

T33K?
T34K?
T35K?

F04L2/E629.7
F04N2/E629.7

T33K
T34K
T35K

T31K/E634.2
T31K/E634.2

T32K/E627.1
T32K/E627.1

T30K
T30K

E-630

THREE-WIRE DIAGRAMM POWER MEASUREMENT
THREE-WIRE DIAGRAMM PV

- STRING FUSES
- DC DISCONNECT
- STRING 1
- STRING 2
- GROUNDING TERMINAL
- Fronius IG Plus 3.0-1 Uni
- DC DISCONNECT
- LOCKABLE AC DISCONNECT
- 63A AC FUSE
- MAIN GROUNDING SYSTEM
- TO GRID
- 120/240V 60 Hz
- ENERGY METER
- N
- L1
- L2
F-101 - FIRE DETECTION AND ALARM

SMOKE DETECTOR

SPRINKLER HEAD
6 TRUCKS CARRYING SEVEN 40 FOOT CONTAINERS TO AND FROM THE CONSTRUCTION SITE
5 OPEN TOP CONTAINERS

1 STANDARD SHIPPING CONTAINER

LOADING DIAGRAM FOR SEA TRANSPORT

LIST’S LUGGAGE
(1) - FOUNDATION
(2) - FLOOR MODULES
(3) - CORES
(4) - CEILING MODULES
(5) - CORNICE
(6) - PHOTOVOLTAIC + FLOORING
(7) - FACADE

ASSEMBLY PHASES

LIST UNDER CONSTRUCTION
FRESH WATER SUPPLY BY ORGANIZERS
COLDWATER SUPPLIED VIA EXTERNAL WATER TANKS

GEBERIT PUSHFIT (GPF) DN18 PREINSULATED Ø 150 MM Ø 150 MM

PATENTA AQUA 300

BWT, HOUSE WATER STATION

HOUSE WATER PUMP

MANUFACTURED BY WILO, WITH PRESSURE TANK

EXHAUST AIR

EXTERNAL AIR

MANUAL VALVES

CUT OFF VALVE

MODULATING VALVE

BALL VALVE

BACK PRESSURE VALVE

DRAIN VENT

EQUIPMENT

SINK TRAP

PRESSURE REDUCER

MEMBRANE SAFETY GROUP

PUMPS

ALL PUMPS IN THE HEATING/COOLING SCHEMATIC ARE MARKED WITH MANUFACTURER AND TYPE, UNLESS OTHERWISE STATED

PLEASE NOTE:

THIS IS A SCHEMATIC DRAWING FOR HOT AND COLD WATER DISTRIBUTION IN L.I.S.I! ALL APPLIANCES (SHOWER, MANIFOLDS, ETC.) ARE NOT DRAWN IN SCALE. ALL TUBES ARE NOT DRAWN IN ACTUAL SIZE AND LENGTH. ALL SINK TRAPS ARE CONNECTED TO OUR WASTE WATER TANKS. THE TOILET OUTLET IS SEALED AND NONFUNCTIONAL DURING SOLAR DECATHLON. THE TOILET TANK IS CONNECTED TO THE COLD WATER SYSTEM. THE VALVE TO THE TANK IS KEPT CLOSED DURING SOLAR DECATHLON SO THE TOILET CAN'T BE FLUSHED.

JOULIA, HEAT RECOVERING SHOWER SYSTEM

SHOWER ARMATURE WITH THERMOSTAT

GEBERIT SANBLOC

THERMICAL HULL OF L.I.S.I

WASHING MACHINE

DISH WASHER

KITCHEN SINK

BATHROOM SINK

TOILET

PUMPALLE PUMPS IN THE HEATING/COOLING SCHEMATIC ARE MARKED WITH MANUFACTURER AND TYPE, UNLESS OTHERWISE STATED
FLOOR MODULE PARTS

A-402
WALL MODULE W02

A-421
MODULE W21+ MODULE W22
WALL MODULE W23

A1
<table>
<thead>
<tr>
<th>MARK DATE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>0</td>
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<tr>
<td>1'</td>
<td></td>
</tr>
<tr>
<td>2'</td>
<td></td>
</tr>
<tr>
<td>4'</td>
<td></td>
</tr>
</tbody>
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ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK

A1 MODULE C01

CORNICE MODULE C01

A-445
CORNICE MODULE C08

A-452
REFERENCE KEYNOTES

01 54 00 A10 RING NUT
06 11 00 A8 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 180X100MM/7.08x3.93IN
06 11 00 A11 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 200X60MM/7.87x2.36IN
06 11 00 A15 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 280X120MM/11.02x4.72IN
06 11 00 A18 WOOD FRAMING: 80X60MM/3.14x2.36IN
06 11 00 A19 WOOD FRAMING: 80X50MM/3.14x1.96IN
06 11 00 A26 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 100X60MM/3.93X2.36IN
06 17 13 A1 LAMINATED VENEER LUMBER BEAM:
400x75MM/15.74x2.95IN
06 17 13 A4.3 LAMINATED VENEER LUMBER BEAM:
280x60MM/11.02x2.36IN
06 17 13 A5 LAMINATED VENEER LUMBER BEAM:
400x57MM/15.74x2.24IN
06 18 00 A1 CROSS-LAMINATED TIMBER BOARD:
100MM/3.93IN
07 21 26 A1 BLOWN INSULATION CELLULOSE
09 64 33 A1 WOOD FLOOR INTERIOR:  21MM/0.82IN
09 74 13 A4 WOOD WALL COVERINGS: 19MM/0.75IN

SHEET KEYNOTES

72 WARDROBE/STORAGE UNIT
78 PARKING SPACE FOR SLIDING DOOR ELEMENTS

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK

PLAN DETAILS

A-501

REFERENCE KEYNOTES

01 54 00 A10 RING NUT
06 11 00 A8 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 180X100MM/7.08x3.93IN
06 11 00 A11 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 200X60MM/7.87x2.36IN
06 11 00 A15 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 280X120MM/11.02x4.72IN
06 11 00 A18 WOOD FRAMING: 80X60MM/3.14x2.36IN
06 11 00 A19 WOOD FRAMING: 80X50MM/3.14x1.96IN
06 11 00 A26 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 100X60MM/3.93X2.36IN
06 17 13 A1 LAMINATED VENEER LUMBER BEAM:
400x75MM/15.74x2.95IN
06 17 13 A4.3 LAMINATED VENEER LUMBER BEAM:
280x60MM/11.02x2.36IN
06 17 13 A5 LAMINATED VENEER LUMBER BEAM:
400x57MM/15.74x2.24IN
06 18 00 A1 CROSS-LAMINATED TIMBER BOARD:
100MM/3.93IN
07 21 26 A1 BLOWN INSULATION CELLULOSE
09 64 33 A1 WOOD FLOOR INTERIOR:  21MM/0.82IN
09 74 13 A4 WOOD WALL COVERINGS: 19MM/0.75IN

SHEET KEYNOTES

72 WARDROBE/STORAGE UNIT
78 PARKING SPACE FOR SLIDING DOOR ELEMENTS

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK
REFERENCE KEYNOTES

06 11 00 A3 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 140X140MM/5.51x5.51IN

06 11 00 A5.1 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 130X60MM/5.11x2.36IN

06 11 00 A8 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 180X100MM/7.08x3.93IN

06 11 00 A16.1 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 270X100MM/10.62x3.93IN

06 11 00 A24 FINGER-JOINTED SOLID CONSTRUCTION
TIMBER: 190X45MM/7.48x1.77IN

06 16 33 A1 WOOD BOARD SHEATHING: 25MM/0.98IN

06 16 36 A1 ORIENTED STRAND BOARD: 15MM/0.59IN

06 16 36 A2 ORIENTED STRAND BOARD: 22MM/0.86IN

06 17 13 A2 LAMINATED VENEER LUMBER BEAM:
300x75MM/11.81x2.95IN

06 17 13 A4.2 LAMINATED VENEER LUMBER BEAM:
430x45MM/16.92x1.77IN

06 17 13 A5 LAMINATED VENEER LUMBER BEAM:
400x57MM/15.74x2.24IN

06 18 00 A1 CROSS-LAMINATED TIMBER BOARD:
100MM/3.93IN

06 18 13 A1 GLUED-LAMINATED BEAM:
270x200MM/10.62x7.87IN

06 18 13 A2 GLUED-LAMINATED BEAM:
350x240MM/13.77x9.44IN

07 21 26 A1 BLOWN INSULATION CELLULOSE

07 22 16 A1 ROOF WOOD SOFTBOARD SLOPE INSULATION
120-43MM/4.72-1.69IN

23 32 36 A1 AIR-DISTRIBUTION FLOOR PLENUMS

GENERAL SHEET NOTES

A-512_00_Section 2 - 01

A-512_00_Section 2 - 02

A-512_00_Section 2 - 03

A-512_00_Section 2 - 04
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

06 11 00 A11 FINGER-JOINTED SOLID CONSTRUCTION

06 11 00 A18 WOOD FRAMING: 80X60MM/3.14x2.36IN

06 17 13 A1 LAMINATED VENEER LUMBER BEAM: 400X75MM/15.74x2.95IN

06 17 13 A5 LAMINATED VENEER LUMBER BEAM: 400X57MM/15.74x2.24IN

06 18 00 A1 CROSS-LAMINATED TIMBER BOARD: 100MM/3.93IN

07 21 26 A1 BLOWN INSULATION CELLULOSE

09 74 13 A4 WOOD WALL COVERINGS: 19MM/0.75IN

**SHEET KEYNOTES**

78 PARKING SPACE FOR SLIDING DOOR ELEMENTS

**DRAWN BY:**

**CHECKED BY:**

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**CLIENT**

U.S. DEPARTMENT OF ENERGY

SOLAR DECATHLON 2013

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**TEAM NAME:**

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TECHNOLOGY

TEAM AUSTRIA

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1 : 12

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**CONSULTANTS**

1 : 12

A1

A3

A-532 - WINDOW DETAIL 02

A-532 - WINDOW DETAIL 05

A-532 - WINDOW DETAIL 01

A-532 - WINDOW DETAIL 1

A-532 - WINDOW DETAILS

1 : 12

C1

C3

06 17 13 A5

06 11 00 A11

06 18 00 A1

06 17 13 A5

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK

ERSTELLT MIT DER STUDENTENVERSION EINES PRODUKTS VON AUTODESK
REFERENCE KEYNOTES

06 11 00 A4 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 140X100MM/5.51x3.93IN
06 11 00 A5 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 140X60MM/5.51x2.36IN
06 11 00 A5.1 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 130X60MM/5.11x2.36IN
06 11 00 A8 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 180X100MM/7.08x3.93IN
06 16 33 A1 WOOD BOARD SHEATHING: 25MM/0.98IN
06 16 36 A1 ORIENTED STRAND BOARD: 15MM/0.59IN
06 16 36 A2 ORIENTED STRAND BOARD: 22MM/0.86IN
06 17 13 A2 LAMINATED VENEER LUMBER BEAM: 300x75MM/11.81x2.95IN
06 17 13 A6.1 LAMINATED VENEER LUMBER BEAM: 300x90MM/11.81x3.54IN
06 18 00 A1 CROSS-LAMINATED TIMBER BOARD: 100MM/3.93IN
06 18 13 A1 GLUED-LAMINATED BEAM: 270x200MM/10.62x7.87IN
06 18 13 A2 GLUED-LAMINATED BEAM: 350x240MM/13.77x9.44IN
09 74 13 A4 WOOD WALL COVERINGS: 19MM/0.75IN

SHEET KEYNOTES

68 ALL TURNING CIRCLES COMPLIANT WITH ICC A117.1-2009 SECTION 304.3.1
80 FIX GLAZING WITH BLINDS OF THERMAL TREATED ASH TREE BARS
89 THERMAL TREATED ASH TREE

GENERAL SHEET NOTES

1:6
C4
A-533_00_Section 0 - 01
1:12
C2
A-533 - WINDOW DETAIL 04
A-533 - WINDOW DETAIL 03
A-533 00 Section 0 - 01
A-533 00 Section 0 - 02

MARK DATE DESCRIPTION
08 23.08.2013 05:04:02
DOOR DETAILS

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 54 00 A1 CAST-ONDECKMENT METAL AND EMBEDDED PLASTIC EXPANSION JOINT: 10MM/0.39IN
06 11 00 A5.1 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 130X60MM/5.11x2.36IN
06 11 00 A8 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 180X100MM/7.08x3.93IN
06 11 00 A13 FINGER-JOINTED SOLID CONSTRUCTION TIMBER: 240X100MM/9.44x3.93IN
06 16 33 A1 WOOD BOARD SHEATHING: 25MM/0.98IN
06 16 36 A2 ORIENTED STRAND BOARD: 22MM/0.86IN
06 17 13 A6.1 LAMINATED VENEER LUMBER BEAM: 300X90MM/11.81x3.54IN
06 18 00 A1 CROSS-LAMINATED TIMBER BOARD: 100MM/3.93IN
06 18 13 A1 GLUED-LAMINATED BEAM: 270X200MM/10.62x7.87IN
07 21 26 A1 BLOWN INSULATION CELLULOSE
09 64 33 A1 WOOD FLOOR INTERIOR: 21MM/0.82IN
09 74 13 A4 WOOD WALL COVERINGS: 19MM/0.75IN

SHEET KEYNOTES

80 FIX GLAZING WITH BLINDS OF THERMAL TREATED ASH TREE BARS
89 THERMAL TREATED ASH TREE

DOOR DETAILS

A-541

A-541 - DOOR 01
A-541 - DOOR 02
A-541 - DOOR 03
A-541_00_Section 0 - 03
A-541_00_Section 0 - 04
A-541 - DOOR 04
THE VOLUME CONSISTS OF 3 PARTS WHICH CAN BE CONNECTED IN ANY WAY. THIS ENABLES INTERESTING VISUAL RELATIONS.

A HORIZONTAL COMPRESSION IS REALIZED POSSIBLE IN WHICH A DISABLED ACCESS IS SCHEDULED.

THE ENTIRELY PREFABRICATED CORE HOUSES ALL TECHNICAL COMPONENTS AS WELL AS THE BATHING- AND SLEEPINGROOM.

THE GREENING OF THE PATIOS ENABLES AN OPTIMAL CROSS VENTILATION AS WELL AS A FUSION OF INTERIOR AND EXTERIOR.

WITH HELP OF THE SEMITRANSPARENT FACADE FLEXIBLE BORDERS BETWEEN PRIVATE INTERIOR AND THE SEMI PUBLIC EXTERIOR ARISE.

L.I.S. IS ELEVATED 50CM TO ENABLE A CONSTRUCTION ON EVERY LOCATION.
THE CONSTRUCTION OF THE HOUSE IS BASED ON THE STRUCTURE OF A TREE.

VARIOUS CONFIGURATIONS ARE POSSIBLE.
OPEN WINTER FACADE

WINTER - PASSIVE SOLAR HEATING

CLOSED SUMMER FACADE

SUMMER - SHADING

PATIOS - INTERIOR AND EXTERIOR CAN MERGE

SEMTRANSPARENT FACADE
FLEXIBLE BOUNDARY BETWEEN PRIVATE AND SEMI PUBLIC

LET'S ADAPTABLE CHARACTER