

### 3.2 Information for Professionals in Architecture, Design and Engineering

The RIBA is an institution respected worldwide and promotes continued learning of those who are working in the design and architecture professions. The AA Bamboo Lab Haiti courses have been designed to fit around the **RIBA Continued Professional Development (CPD)** guidelines. All RIBA chartered member, architects are expected to conduct the following each year:

- Undertake at least 35 hours of CPD. The 35 hours are the minimum amount of time you need to spend each year maintaining your competence.
- 20 of the required 35 hours must come from the ten topics in the **RIBA CPD Core Curriculum (two hours per topic per year)**.
- Award at least 100 learning points to the individual CPD activities you carry out. Assigning points represents your assessment of what you got out of the CPD activity, and will be the result of the time you spent reflecting.
- Gain at least half of your CPD from structured learning activities, unless your circumstances prevent it.

The RIBA outlines this additional information on the, *'What can I count as CPD? 2015'* section of the RIBA website:

- *You are free to develop your CPD based on our study notes, or you may instead choose other learning pathways. As long the subject of study fits in one of the ten broad topics somehow, it will count toward your core curriculum subject requirement. What, where, from whom, at what detail and how you choose to study each of the ten topics depends on the expertise you need in practice.*
- *The possibility for permissible learning activities in the core curriculum is very broad, too. Whether your learning was structured and formal, or informal, general and self-directed, if you learned from it, and it covered a core curriculum topic, it was CPD. The CPD does not have to be formal, it does not have to be spelled out in our suggested study notes and it does not have to come from or be accredited by the RIBA to count.*

Therefore the AA Haiti Visiting School Summer and Winter curricula's will be delivered in a way to make sure that: Tutorials; tutor to participant contact time; lectures; physical construction; and group discussions will tackle **RIBA CPD Core Curriculum** topics and surpass the required contact time.

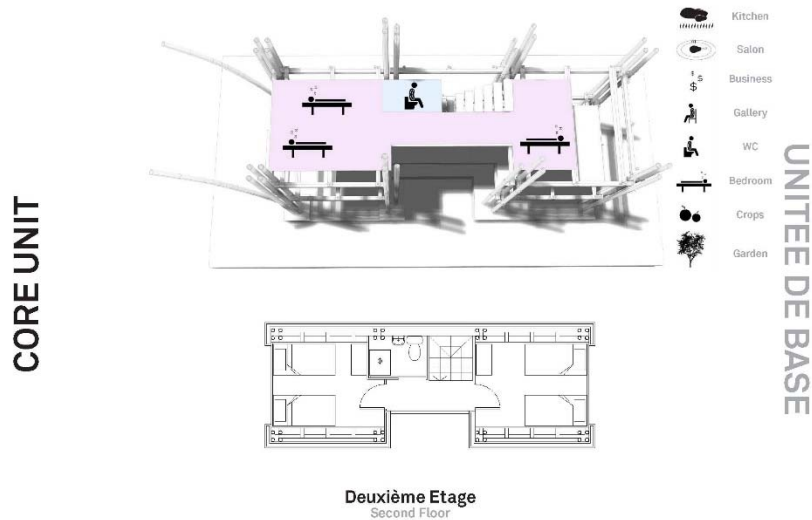
RIBA CPD Topic	RIBA Description	AA Bamboo Lab Haiti Activities
<b>1. BEING SAFE</b> Health and safety	<ul style="list-style-type: none"> <li>• CDM (or similar outside the UK), particularly designers' responsibilities</li> <li>• Workplace health and safety</li> <li>• Employers' responsibilities</li> <li>• Risk assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Health and safety introduction to the construction site.</li> <li>• Daily site inspections.</li> <li>• Lecture on the health and safety in developing countries and the Code National du Bâtiment Haiti 2012 Health and Safety requirements.</li> </ul>
<b>2. CLIMATE</b> Sustainable architecture		
A) Briefing	<ul style="list-style-type: none"> <li>• Knowledge of climate change and climate change science and impact of both mitigation and adaptation</li> <li>• Communicating the importance of low carbon design</li> <li>• Understanding and prioritising energy efficiency in low carbon design</li> <li>• Importance of sustainable design from inception to completion and handover including post-occupancy evaluation and feedback</li> <li>• Understanding the impact of choices on traditional and old buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Discussions regarding designing in the Caribbean and tropical climates.</li> <li>• In the lectures in which we introduce the material of bamboo, we will discuss the carbon offsetting, and ecological benefits of the grass.</li> <li>• Studying the design in climatic software.</li> </ul>
B) Design Process	<ul style="list-style-type: none"> <li>• Regulations, codes, guidance and standards (current and planned)</li> <li>• Heat loss parameters and understanding the relationship between air tightness, insulation, glazing, heat loss and solar gain.</li> <li>• Understanding the energy assessment process.</li> <li>• Material selection, embedded energy, recycling and minimising waste.</li> <li>• Whole life carbon foot printing.</li> <li>• Resource energy efficiency, materials, water, energy and behaviour.</li> </ul>	<ul style="list-style-type: none"> <li>• Integration through design stages the ideas discussed about designing for the Haitian climate.</li> <li>• Exposure to Autodesk Flow software.</li> <li>• Assessing the environmental performance of the structure in built form.</li> <li>• Discussion on the new bamboo procurement infrastructure and calculating the embodied energy in the project.</li> </ul>
<b>3. EXTERNAL MANAGEMENT</b> Clients, users and delivery of services	<ul style="list-style-type: none"> <li>• Client relationship management.</li> <li>• Briefing/getting the brief right/context of the brief.</li> </ul>	<ul style="list-style-type: none"> <li>• Critical discussion on the brief and interpreting the information from the site studies and community discussions.</li> </ul>

	<ul style="list-style-type: none"> <li>• Adding value through design and services.</li> <li>• Obligations to stakeholders.</li> </ul>	<ul style="list-style-type: none"> <li>• Constant critical analysis of onsite construction decisions and how they affect the design concept.</li> </ul>
<b>4. INTERNAL MANAGEMENT</b> Professionalism, practice, business and management	<ul style="list-style-type: none"> <li>• Architect's obligation to society and the protection of the environment.</li> <li>• Effective communication, presentation, pitching, confirmation and recording.</li> <li>• Team working and leadership.</li> </ul>	<ul style="list-style-type: none"> <li>• Participating in a knowledge transfer with local bamboo technicians and craftsmen to maintain design ideas in the factory workforce.</li> <li>• Working with local contractors.</li> </ul>
<b>5. COMPLIANCE</b> Legal, regulatory and statutory framework and processes	<ul style="list-style-type: none"> <li>• The relevant UK (or overseas if you work elsewhere) legal systems and processes, civil liabilities and the laws of contract and tort (delict)</li> </ul>	<ul style="list-style-type: none"> <li>• Required permits for building in the area.</li> <li>• Introduction to the issues involving building in Haiti including permits and land ownership.</li> <li>• Experience of building to the necessary seismic and hurricane codes we will be following the CNBH 2012.</li> </ul>
<b>6. PROCUREMENT AND CONTRACTS</b>	<ul style="list-style-type: none"> <li>• The effect of different procurement routes on programme, cost, risk, quality.</li> <li>• Collaboration and briefing in construction and provisions for team working.</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion on the issues facing developing the bamboo infrastructure in Haiti and how such an infrastructure can be established in Haiti.</li> <li>• Working with local contractors.</li> <li>• Working with carpenters from around the area.</li> <li>• Discussion on the new bamboo procurement infrastructure.</li> </ul>
<b>7. DESIGNING AND BUILDING IT</b> Structural design, construction, technology and engineering	<ul style="list-style-type: none"> <li>• Architectural design.</li> <li>• BIM, CAD, modelling, mapping and visualisation.</li> <li>• Optimum physical, thermal and acoustic environments.</li> <li>• Systems for environmental comfort within the relevant precepts of sustainable design.</li> </ul>	<ul style="list-style-type: none"> <li>• 3D modelling in Rhinoceros 3D.</li> <li>• Technical drawing in AutoCAD or Rhinoceros 3D.</li> <li>• Aerodynamic simulation through Autodesk Flow.</li> <li>• Structural analysis with Karamba.</li> <li>• V-ray and Adobe Creative Suite to render and present projects.</li> <li>• Attendance of daily design tutorials with tutors.</li> <li>• Critical reaction to tutors input and group design decisions.</li> <li>• Documentation of design process.</li> <li>• Construction of one joint or component to be built from</li> </ul>

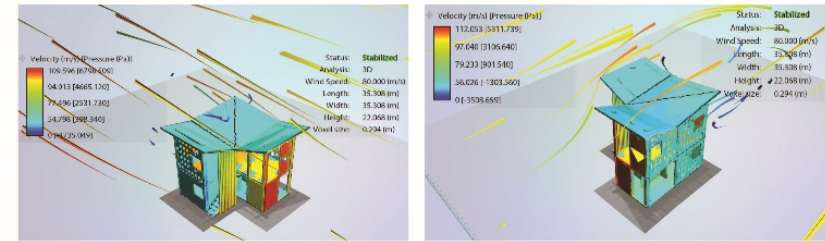
		bamboo, originating from a group's project.
<b>8. WHERE PEOPLE LIVE</b> Communities, urban and rural design and the planning process	<ul style="list-style-type: none"> <li>• The influence of design and development on places, communities, non-urban areas and cities.</li> <li>• The needs and aspirations of communities, and space and building users.</li> <li>• The ways in which spaces and places fit into their local context</li> <li>• The role played by design within the larger community context.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture on the building typology and the relevance to the community and national culture.</li> </ul>
<b>9. CONTEXT</b> The historic environment and its setting	<ul style="list-style-type: none"> <li>• Cultural significance.</li> <li>• Historical significance.</li> <li>• Architectural significance.</li> <li>• Aesthetic qualities and values.</li> <li>• Investigation, materials, technology and the building environment.</li> <li>• Social, environmental and financial issues.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture on the building typology and the relevance to the community and national culture.</li> <li>• The ecological situation in Haiti and locally delivered as a lecture.</li> </ul>
<b>10. ACCESS FOR ALL</b> Universal or inclusive design.	<ul style="list-style-type: none"> <li>• Community consultation and engagement and working with user groups</li> </ul>	<ul style="list-style-type: none"> <li>• Site visit to geographically map the site.</li> <li>• Discussion with local groups on site.</li> <li>• Presentation to the local community following the design phase.</li> <li>• Engagement with end users to articulate the construction process and assist in disseminating construction knowledge.</li> </ul>

Information is ever changing and if you are undertaking the RIBA CPD programme, we ask that you check yourself with the Royal Institute of British Architects, <https://www.architecture.com/RIBA/CPD/CPD.aspx>

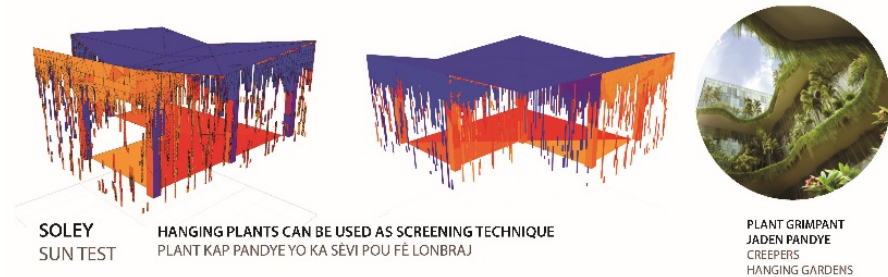
We are also aware of the difficulties in getting time off to join us in Haiti and therefore we would like to encourage employers to cover the cost of the course for their staff and allow them to attend without let or hindrance. In return for this kind act we are willing to publish the employers name in subsequent documentation as an 'Intermediate Sponsor' of the course. More information on sponsorship opportunities and sponsor tiers are available from the AA Bamboo Lab Haiti on request.



## TÈST AK KLIMA A CLIMATE TEST



TÈST VAN AK YON VITÈS 80 M/S  
WIND TEST WITH SPEED OF 80 M/S



### 3.3 PORTFOLIOS

We want all participants to create portfolios of their own experiences onsite along with models, drawings, sketches, and stories of your interactions with the team, local builders and carpenters. All this research will be form a very comprehensive personal document and provide the contents of a book we will be publishing after the course. We want this outcome to act as a critical, comprehensive document in the effort to change attitudes to lightweight materials and simplify the process of building with bamboo in Haiti.