



**ខេមប៊ូ**  
**CAMBOO**  
bamboo landmark  
design challenge  
**16.01 - 17.03**

**ខេមប៊ូ**

In 2017, Building Trust will host an international Bamboo Festival located in the capital of Cambodia, Phnom Penh. We are looking for innovative and creative designs for the central pavilion of the festival.

# introduction

Your chance to build a landmark structure for the Bamboo Festival in Cambodia. Building Trust have been given permission by the municipality to manage an event to promote sustainable construction and the use of bamboo in construction.

## What?

We know its really exciting... Our latest design challenge is to propose a central temporary structure which will act as a showcase for the material and as a gathering space for events throughout the festival.

We want the most creative, forward thinking ideas which push the already amazing portfolio of bamboo projects that are out there. We aim to build the winning design and capture the minds of the public, overcoming the widespread stigma that bamboo is a poor material and firmly set Cambodia as a place where modern architecture and traditional building materials can combine.



# about

The aim of this design challenge is to:

- Encourage and reward design excellence at a small scale which integrates function, structure, details and the need for exciting bold temporary architecture.
- Research, respond to and highlight the unique aspects of designing with bamboo.
- Encourage the employment of sustainable design in all aspects of the proposal.

## Bamboo Facts

There are more than 1600 species of bamboo + around 65% are native to S.E Asia. It is estimated that it can make more than 1000 products and has countless applications.

As Cambodia modernises, it is important to celebrate tradition, finding new ways to use a plant which has such a strong connection with Cambodia.



# ideas

...Use your imagination.

- What shapes can you create with bamboo?
- What are the strengths of bamboo as a building material, how can you showcase them?
- How can you promote bamboo as a sustainable material?
- Are there traditional references?
- What forms might react best to the environment and temperature?
- How can you create a landmark structure for a low cost?
- How accessible can the pavilion be?
- How can the attendees of the festival make use of the space?

...Be creative.

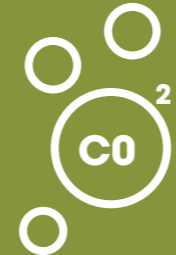
# ideas

For information on types of bamboo in Cambodia and tips on how to build check out our bamboo building toolkit

[www.buildingtrustinternational.org/BTIBambooToolkit.pdf](http://www.buildingtrustinternational.org/BTIBambooToolkit.pdf)



# bamboo in numbers



**30%**

Bamboo releases more oxygen into the atmosphere and absorbs more carbon dioxide compared to other plants.

Bamboo has a higher strength to weight ratio than graphite.



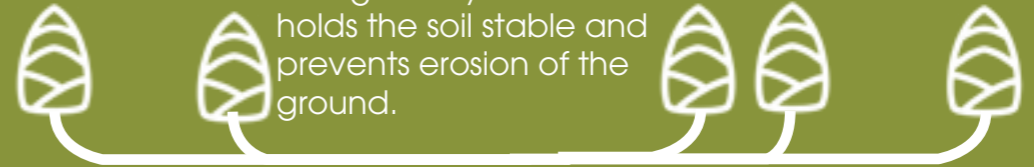
Bamboo can have a tensile strength of **28,000** psi making it stronger than steel.



A tree can take **30 years** to grown the same height as a bamboo plant can in **90 days**



Bamboo has wide and strong root system which holds the soil stable and prevents erosion of the ground.



Some species can grow

**3 ft in  
24 hrs**

under appropriate climate conditions.



Flowers of bamboo are rarely seen. Some species of bamboo only develop flowers after

**65-120 years**

When they do flower all plants of the same species develop flowers at the same time, no matter where they are located in the world.

Unlike other woody plants, bamboo reaches maturity after only

**3 to 5 years**



# considerations

Submissions should consider the following factors;

- Tread lightly as the pavilion is temporary we can make minimal ground works, so no foundation that involves digging
- Versatility of the material
- Provide shade from rain and sun
- Can the structure be taken down and used again by a school or community group after the event?
- How design and construction of the proposal can stimulate local economy
- Safety during and after construction

# evaluation

Entries will be evaluated based on the main criteria made up of the following 8 points:

- Imaginative use of the material
- Ease of construction and ability to build by local skilled workers who are used to building with bamboo
- The design's originality and aesthetics
- Sustainable approach
- Clarity and comprehensibility of the design
- Cost and affordability
- Functionality for the event
- Intelligent use of space

# structure

This is a single stage competition with the aim of identifying the most appropriate proposal, which best satisfies the general and specific objectives of the contest.

# disclaimer

This is an open International competition hosted by Building Trust International to encourage wider appreciation of bamboo and its use in construction. The goal is to generate progressive contemporary design ideas that Building Trust international and sponsors can actively work towards. Please see the terms and conditions on the Building Trust International website for full details and guidelines on the competition structure and governance.





Wat  
Phnom

Night  
Market

Central  
Train  
Station



Central  
Market

site

Freedom Park in central  
Phnom Penh.  
(11.573276, 104.921461)



(CAD plans with dimensions will be provided once registration is complete.)

# special considerations

The design should have a sensitivity to the tropical surroundings. Submissions can be the work of an individual or a group. There is no age limit. However, entrants under 18 years of age must be led or entered by someone over 18 years of age. Interdisciplinary teams are encouraged to enter the competition.

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# those ineligible

Employees, staff, consultants, agents or family members of Building Trust International personnel.

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# restrictions

There are no restrictions for this competition.

Registration and participation in the competition implies an immediate acceptance by the entrants of all terms & conditions governing the competition.

# awards

1st prize: We will build the winning design as the centre piece to the CAMBOO: 2017 bamboo festival

- There will also be 9 honourable mentions.

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# publication

The winning design will receive our media package and tailored press release which in the past has resulted in TV, Radio and national/trade press. We will also feature your design on the websites of Building Trust international and our partners. Connecting you and your designs to millions of interested parties.



# registration

Early-bird Registration : £25  
(16th Jan - 22nd Jan)  
Advance Registration : £50  
(23rd Jan - 5th Feb)  
Final Registration: £75  
(6th Feb - 3rd March)

Entrants may register by E.mailing Building Trust International at; [competitions@buildingtrustinternational.org](mailto:competitions@buildingtrustinternational.org) receiving a unique entry number and then proceeding with appropriate payment. All proceeds will go directly to funding this and other Building Trust international humanitarian architecture projects.

# deadlines

All entry submissions must be sent via email to; [competitions@buildingtrustinternational.org](mailto:competitions@buildingtrustinternational.org) by 17th March 2017 at midnight (11:59 pm-00:00 GMT). Competitors will be responsible for the arrival of their proposals within the corresponding deadlines and no proposal will be received one day after the date previously stated.

# schedule

- 16th January 2017  
Competition Officially Announced  
- 3rd March 2017  
Registration deadline  
- 17th March 2017  
Closing date for all submissions  
- 20th March 2017  
Announcement of winners to be posted on [www.buildingtrustinternational.org](http://www.buildingtrustinternational.org) and associated sponsors websites.

# payment

Payments can be made by bank transfer with your unique reference number once you have contacted us.  
Name of account: BUILDING TRUST  
Sort Code: 20-49-76  
Account Number: 63659070  
ISBN: IBAN GB78 BARC 2049 7663 6590 70  
Swift code: BARCGB22

You can also pay securely through mydonate:

<https://mydonate.bt.com/charities/buildingtrustinternational>  
(if you are based in the UK please remember to tick the gift aid box. Thank you!)

# requirements

Submission of entries must be in one PDF document in A2 landscape format (594x420mm). All images contained should be 300dpi

The completed PDF should be sent to: [competitions@buildingtrustinternational.org](mailto:competitions@buildingtrustinternational.org)

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**Text file:** Any text contained on the boards should also be sent as a separate text file in word format and saved with same name as PDF ie. CB0001.doc

Please note entries that do not follow the submission guidelines may not be fully entered.

**Subject of email:** Subject of the email must be your unique registration number.

**Presentation panels :** You may use 1 sheet at A2 format this should be horizontal (landscape.) **You must create a PDF please do not send raw files.**

**File Name:** The PDF file name must correspond to your unique registration number. (Example: CB0001.pdf where CB0001 represents your unique registration number assigned and sent to you by Building Trust International after a successful registration.)

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## jury

The Jury for this International competition will be comprised of both professionals and interested parties. Full jury yet to be announced, but will include:

Key members of the Building Trust international team and local skilled bamboo workers.

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## evaluation

The Jury will review the submitted entries based on the competition objectives and from the short-listed entries select the competition winners with a Building Trust International representative overseeing each stage of the process.

The Jury's decision will be final as stated in the competition's terms and conditions.

## submission info

The presentation technique is open and at the discretion of the entrant. However, it is recommended that your submission includes any of the following information which will help express the main concept of the design:

Sketches, perspectives or renders representing your design in use,  
Plans,  
Sections,  
Elevations,  
Any additional diagrams showing how the elements are arranged or materials are used.

The presentation should clearly document the proposed design as well as the approach to the project. Ideas regarding organisation, additional materials, treatment of the location and the design should be included when considered relevant. This will be used to make rough cost estimates and test the 'buildability' of any winning design chosen.

The total area of the project should be included in a part of the image. Any other textual or numerical description should be expressed in English only and it should be incorporated into the graphical presentation of the project.

## note:

The entrant's unique registration number should appear on the upper right side of the image. **Do not place your name or company name on any of the competition panels.**

Entrants are advised to send their submissions from the email address used for the registration, as submissions from a different or unrecognisable e-mail account might be treated as spam and also prevent us from tracing you in the event we have to contact you.

## t+c's

Please see the terms and conditions section at;  
[www.buildingtrustinternational.org/terms.html](http://www.buildingtrustinternational.org/terms.html)

# ownership

All material submitted to this design competition will become part of the public domain. Entrants acknowledge that Building Trust International may exhibit all entries in an online gallery and a selection of entries may be chosen for physical exhibition and/or public display. Building Trust International will make reasonable effort to notify entrants of any public exhibitions of their work through correspondence with the registered contact.

In entering the design competition entrants grant Building Trust International unrestricted license to exercise the entrants' rights regarding their design submissions, including, but not limited to, reproduction, preparation of derivative works, distribution of copies of the design submission and the right to authorise such use by others.

In entering the competition, the registrant and all team members recognise the competition's program as the intellectual property of Building Trust International and agree to credit the organisation by name in any subsequent exhibition or publication of materials. Entrants will be credited on all online and print material published by the organisers of the competition.

# contact

All communications should be through Building Trust International and not any of the other interested parties.

# queries

All queries regarding the registration, process, fees or payment should be emailed to:  
[competitions@buildingtrustinternational.org](mailto:competitions@buildingtrustinternational.org)

