

Bio & Earth-Based Materials Compendium Application Questions

Initiative by:



Global Alliance
for Buildings and
Construction



One planet
handle with care



Life Cycle Initiative



Co-Chaired by:



CENTRE FOR
NATURAL
MATERIAL
INNOVATION



UNIVERSITY OF
CAMBRIDGE
Department of Architecture



Objective:

The compendium will showcase examples of natural fibrous materials and low-embodied energy earth minerals used in the creation of buildings and construction. We seek submissions of novel projects that can either be products with demonstrable proof of concept, to buildings that incorporate natural materials.

Disclaimer:

The information provided in this questionnaire will be shared within the Materials Hub network and the GlobalABC community. By submitting your responses, you consent to the Materials Hub and GlobalABC using the information you provide (including names, organisations, text, and figures) in the compendium, as well as in related digital and non-digital publications and presentations. Email addresses and phone numbers will not be included in public materials.

Access Submission Portal: <https://forms.gle/nJQwSqZsaJcYnWUcA>

Submission Background

1. First Name

2. Surname

3. Email address

4. Phone Number

5. Your Role & Organisation

6. Country of residence

Select only on option

Project Overview

7. Project Name/Title

8. Select your type of project:

Product

Building

Select only on option

9. Select your companies role:

Material growers and cultivators,

Material/product manufacturers and producers,

Design Practitioners involved in building creation and construction
(e.g., architects, engineers, building designers, contractors, researchers, developers, real estate professionals, insurance operators/suppliers),

Research and academic bodies
(e.g., research associates to established lecturers and professors)

End-user focused entities, NGO's, & think tank professionals.

Other:

Select only on option

10. List the Project team:

Names, Roles of the people, and the Organisations involved.

11. Select the project Region:

Select only on option

12. Select the project Country

Select only on option

13. Start Date:

Please enter the state date of the project

Example: 7 January 2019

14. End Date (or expected):
Please enter the end date of the project

Example: 7 January 2019

15. Provide a short headline summary of the project:
50 words or less

Project Details

16. Provide an overview of the project, the objectives and impact:
500 words or less

17. Describe at what stage the project is at:
(e.g., research/concept, community consultation, design development, contract administration, etc.)
500 words or less

18. Select the relevant categories of natural material/s that used in the project:

Wood/Timber

Bamboo

Hemp

Straw

Fungai

Earth

Other:

Select all that apply

19. Select the function of the natural material/s that are in the product or building:

Structural

Non Structural (e.g., internal or external finishes, insulation, etc.)

Other:

20. Where and how have the materials been sourced, including sustainability aspects?
Please list all certifications and standards that apply to the materials sourcing, cultivation/extraction, processing.
200 words or less

21. Where and how have the materials been processed, including the sustainability aspects?
200 words or less

22. What is the density of the material?
(e.g., kg/m²)

23. How much material is needed for a linear unit of the final product?
(e.g., 1m² of surface area, 1 linear metre of wall, etc.)

24. Are there any secondary (resued and/or recycled) materials utilised in the project? If so, how are they used?
200 words or less

25. Describe the project's relevant technical and/or chemical innovations:
(e.g., Checmical innovation, design techniques, material sourcing and processing, methods of construction, consumer or occupancy use, forecast demand, etc.)
250 words or less

26. Submit any figures, CAD files, drawings, specifications, environmental impact assessment report and any other details with captions as one PDF document.

Successful applicants will be requested to provide high-resolution figures for the final publication. (100mb maximum)

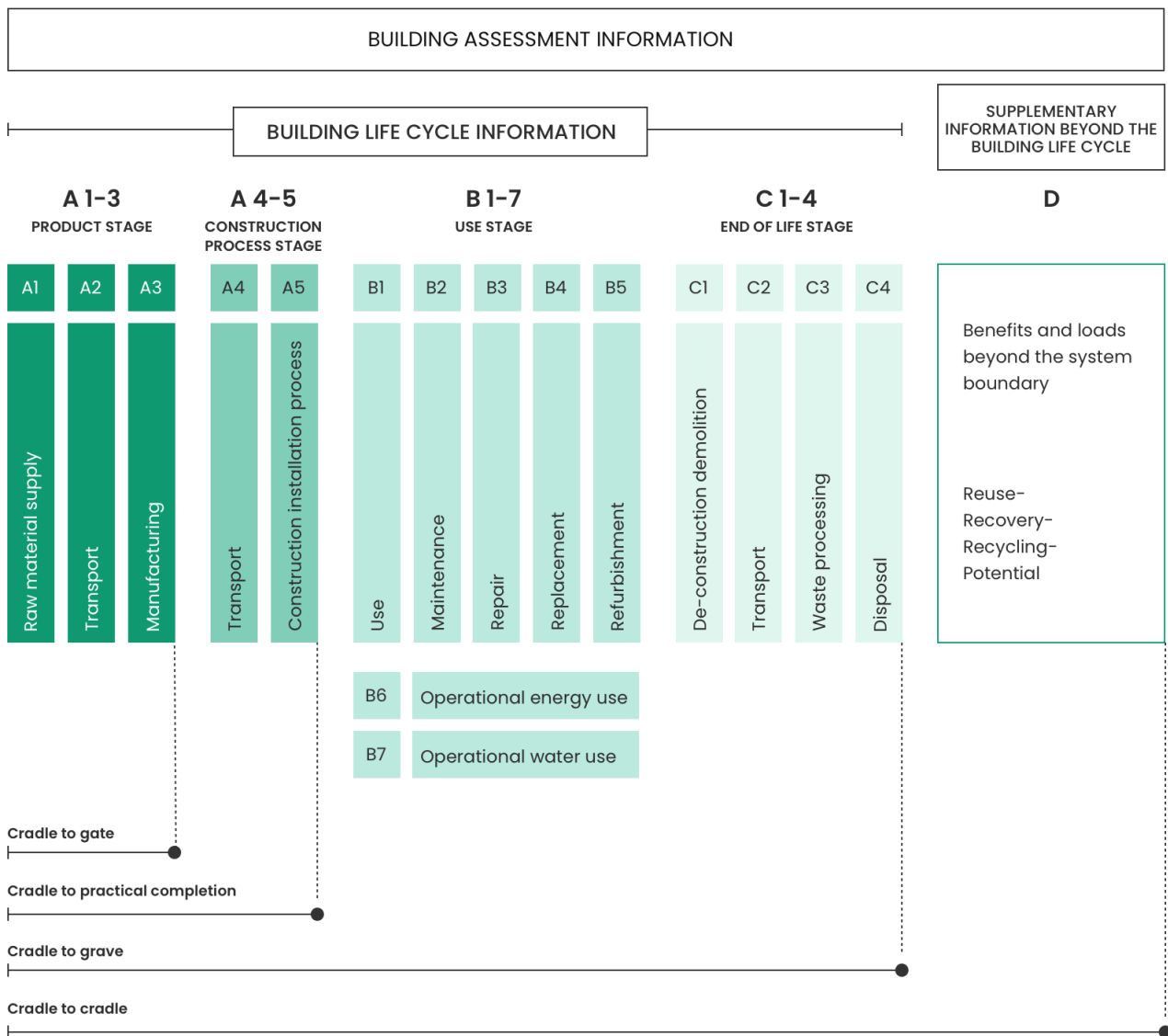
Project Findings

27. Detail the social, environmental and economic impacts of the project, listing both positive and negative impacts, for example, any reduction of emissions A1-A5 & D (post first product/building lifecycle, see reference image below), substitution impact for the displacement and reduction in use of non-renewable and high-embodied energy materials.

Source: [One Click LCA](#)

Reference Standard - EN 15978

250 words or less



28. Share any challenges encountered in the project:

250 words or less

29. Share any learnings, findings from the project experience related to the use of natural materials.

(e.g., social innovations, mitigation plans, community consultation, manufacturing, processing developed to overcome the challenges to ensure the project's success)

250 words or less

30. Describe the project's engagement on gender and diversity aspects:

250 words or less

31. Describe any local community activities that were used to develop the project:

(e.g., fundraising, community consultation, local employment, etc)

250 words or less

32. Describe the replicability of the project:

(e.g., knowledge transfer, potential for wider application, user, transferability, scalability, etc).

250 words or less

33. Please list if there are any intellectual properties or trademarks related to the project:

100 words or less

34. Please attach any relevant documents

Project Environmental Compliance

35. Select and provide detail for the relevant environmental compliance checks and implementations utilised in the project:

(Further explanation will be asked in the next page)

Life Cycle Assessment (LCA) and other analysis
Move to question 36

Environmental Product Declarations (EPD)
Move to question 38

Standards
Move to question 40

Certifications
Move to question 42

None
Move to question 46

Other:

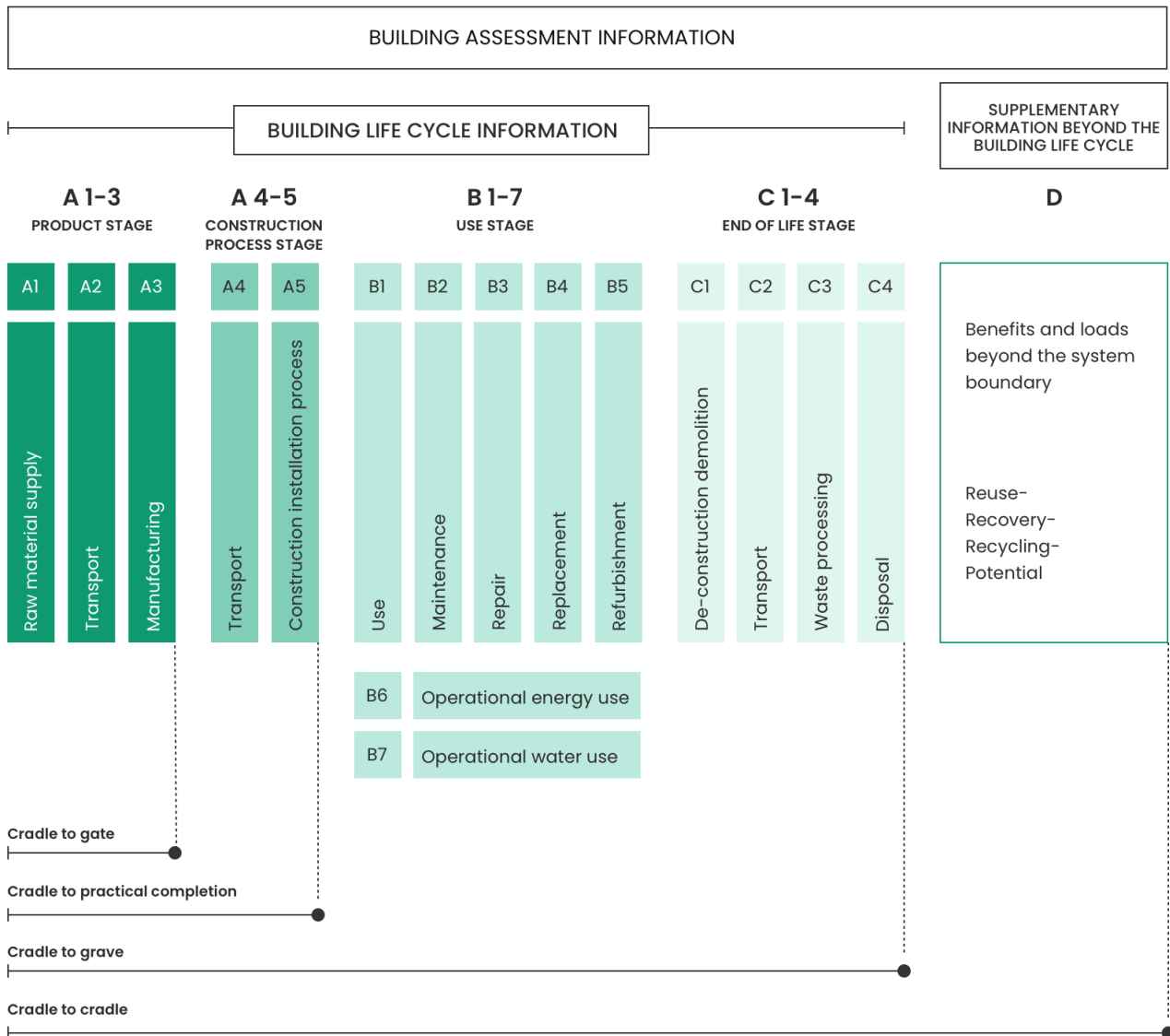
Environmental compliance checks: LCA

36. You've selected Life Cycle Assessment (LCA) and other analysis as the relevant environmental compliance checks utilised in the project; please list adhered methodologies:

50 words max & refer to image below.

Source: [One Click LCA](#)

Reference Standard - EN 15978



37. Please upload relevant reports for the assessment and analysis:

Environmental compliance checks: EPD

38. You've selected Environmental Product Declaration (EPD) as the relevant environmental compliance checks utilised in the project; please list adhered ones:

50 words max

39. Please upload relevant EPD reports and documents:

Environmental compliance checks: Standards

40. You've selected Standards as the relevant environmental compliance checks utilised in the project; please list adhered ones:

50 words max

41. Please upload relevant standard documents:

Environmental compliance checks: Certifications

42. You've selected Certifications as the relevant environmental compliance checks utilised in the project. Please select which certifications have been adhered.

FSC

PEFC

BREEAM

LEED

Other:

Select all that apply

43. Explain how the certificate selected is utilised and to what level was it met/achieved in the project: 200 words or less

44. Please upload evidence of certifications

Environmental compliance checks: Other

45. You've selected "other" as the relevant environmental compliance checks utilised in the project; please list adhered ones.

50 words max

Environmental compliance checks: None

46. You've selected "None" as the relevant environmental compliance checks utilised in the project; please explain why and describe what technical verifications have occurred.

100 words max

Project Collaborators

47. List the collaborating organisations of the project, i.e. academia, manufacturers, growers and cultivators, designers, local community groups, think tanks, NGO's, governments, etc.

48. If selected, would you be interested in presenting your project at future events? Such as GlobalABC assembly and member events, webinars, etc.

Select only one option

Yes

No

All submissions to be submitted online using Google Forms: <https://forms.gle/nJQwSqZsaJcYnWUcA>

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