# **Disassembly Plan questionnaire**

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| Project |  |
| Company name |  |
| Scope of work  |  |

Useful life

* What is the expected useful life of the main components included in your scope of work? Please list them below and select an expected useful life.

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|  |  | <10 years |  | <25 years |  | <50 years |  | >50 years |
|  |  | <10 years |  | <25 years |  | <50 years |  | >50 years |
|  |  | <10 years |  | <25 years |  | <50 years |  | >50 years |
|  |  | <10 years |  | <25 years |  | <50 years |  | >50 years |
|  |  | <10 years |  | <25 years |  | <50 years |  | >50 years |

*Guidelines: the useful life of a construction product is an estimate of the number of years it is likely to work as intended.*

* Please explain how you have developed reversible connections between components in different layers with different life spans so those with shorter expected service life periods can be easily and independently extracted, adapted, reused, repaired, refurbished or replaced:

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Disassembly

* Can your project components be fully disassembled? If not, what is the percentage of the parts of your scope of work that cannot be disassembled and why?

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* Please attach a logistical plan to this document, showing sequence of disassembly and disassembly instructions of all the components that form part of your scope of works. Sequence of disassembly needs to be shown:

- at a project-wide scale, if relevant to your scope of works; *(i.e. for structural steel, from which area in the building should disassembly start from and how should disassembly proceed across the building)*

- at a detail scale, between individual components. Please describe methods for disassembly for individual details, while ensuring that disassembly methods described are universally recognised. Please clearly indicate equipment requirements for disassembly of individual components.

* Please provide an estimate of the time required for disassembly of all your scope of works’ components.

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* *Guidelines: When reviewing your details, please consider the following to facilitate disassembly:*
* *Favor mechanically-fixed systems over adhesive-fixed*
* *Favor bolted connections over welded connections*
* *Rethink composite materials for future ease of recycling*
* *Use connection methods that do not damage the individual elements, so that they can be re-used directly (assuming they meet performance requirements)*
* *Minimise the number of connection types in order to facilitate future disassembly*
* *Connections should be designed to minimise deformations during service life, which can prohibit future disassembly*

Ease of access and independence of components

* Please explain how you have allowed for sufficient visibility and access for future disassembly of your scope of work’s components, so that disassembly actions in the future can be comfortably carried out.

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* Are there any specific safety precautions required for disassembly of your scope of work’s components?

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* What type of coordination is required with other trades for your scope of work to be fully disassembled?

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Second life arrangements

* What treatments and procedures are required for the components of your scope of works to be re-used in a second application in the future? Does the owner need to do anything to extend the lifespan of the products you have installed? e.g. raised floor; glue residue to be removed from top surface prior to re-installation.

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* Are there any requirements or precautions that the client should be aware of to ensure that the materials included in your scope of works are stored properly after disassembly and between uses?

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* Are you aware of any take-back schemes that might accept the materials included in your scope of works after disassembly?

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* If any waste is produced from disassembly of your material components, please describe end of life options for such waste.

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* What mitigations procedures should be put in place to reduce wastage of materials during and after disassembly as much as possible?

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