

## SURVEY QUESTIONNAIRE

### 1. GENERAL INFORMATION

A) Your construction activity mainly focuses on: (Please select one option)

- Buildings
- Civil engineering (roads, bridges, etc.)
- Other, please specify:

B) Your activity mainly focuses on: (Please select one option)

- New buildings
- Refurbishment or deconstruction
- Both new building and refurbishment/demolition projects
- Other, please specify:

C) Please indicate your position: (Please select one option)

- Qualified technician
- Environmental coordinators
- project managers
- Other, please specify:

D) Please indicate the number of years you have been working for the construction sector: (Please select one option)

- Less than 1 year
- 1 - 3 years
- 3 - 5 years
- Over 5 years

E) Please, rate your knowledge regarding construction waste management:

1- Very poor	2-Poor	3- Moderate	4- Quite well	5- Very high

### 2. BEST PRACTICE MEASURES

In general, a building construction has two phases: design and execution. In turn, building rehabilitation and deconstruction projects have two well differentiated activities: those related to dismantling and reform of the building (deconstruction) and those related to the execution of the new construction (construction). Therefore, the following questions are structured as follows:

Design phase:

- Activities for rehabilitation/deconstruction
- Activities for new construction

Execution phase:

- Activities for rehabilitation/deconstruction
- Activities for new construction

**B.1) Best practices in building rehabilitation projects – design phase**

A) Which of the following best practice measures do you usually implement in the design phase of the REHABILITATION/DECONSTRUCTION ACTIVITIES? (Please select all relevant options)

- Planning selective demolition techniques
- Providing a space for the collection of CDW.
- None
- Others, please specify:

B). Which of the following best practice measures do you usually implement in the design phase of the NEW CONSTRUCTION ACTIVITIES? (Please select all relevant options)

- Use materials with a high content of recycled material, natural materials and/or eco-label.
- Use construction techniques that generate less waste (prefabricated or industrialized elements).
- Design the building to facilitate the recovery of the elements at the end of their useful life.
- Providing a space for the collection of CDW.
- None
- Others, please specify:

C). Please rate the following best practice measures regarding their viability of implementation in a building rehabilitation project: (Please when answering consider viable and economic aspects)

Best Practice measure	Rate				
	1- not at all viable	2- Slightly viable	3- Somewhat/moderate viable	4- quite viable	5- very viable
Use materials with a high content of recycled material, natural materials and/or eco-label					
Design the building to facilitate the recovery of the elements at the end of their useful life.					
Use construction techniques that generate less waste (prefabricated or industrialized elements).					
Planning selective demolition techniques					
Provide space for the collection of CDW					

D). Please rate the following best practice measures regarding their effective to minimize or correctly manage CDW in a building rehabilitation project:

Best Practice measure	Rate				
	1- not at all effective	2- Slightly effective	3- Somewhat/moderate effective	4- quite effective	5- very effective
Use materials with a high content of recycled material, natural materials and/or eco-label					
Design the building to facilitate the recovery of the elements at the end of their useful life.					
Use construction techniques that generate less waste (prefabricated or industrialized					

Best Practice measure	Rate				
	1- not at all effective	2- Slightly effective	3- Somewhat/moderate effective	4- quite effective	5- very effective
elements).					
Planning selective demolition techniques					
Provide space for the collection of CDW					

## B.2) Best practices in building rehabilitation projects – execution phase

A). Which of the following best practice measures do you usually implement in the execution phase of the REHABILITATION/ DECONSTRUCTION ACTIVITIES? (Please select all relevant options)

- Removing decorative elements.
- Dismantling neatly carpentry, sanitary equipment
- Uninstalling heating networks, plumbing, electricity, etc.
- Dismantling exterior elements, false ceilings and recoverable coatings.
- Dismantling roofs, covers and interior divisions.
- Demolishing the structure in a controlled manner.
- Estimating the mass and volume of waste to be generated, as well as the type and quantity of containers required.
- Hiring authorized companies for the management of waste.
- Establishing a container for each type of CDW and respect its use.
- Using small containers in work areas.
- Training and informing all personnel of the correct labeling of containers and their responsibilities in the field of waste.
- Use of machinery for the management of CDW (crushers and compactors).
- Recording the date of withdrawal, quantities and characteristics of the waste.
- Creating documents that collect instructions regarding the different processes that generate waste to ensure that each task is well defined.
- Control and follow up.
- Commitment to apply Best Practices as a complementary criterion for the award of the work
- None
- Others, please specify:

B). Which of the following best practice measures do you usually implement in the execution phase of the NEW CONSTRUCTION ACTIVITIES? (Please select all relevant options)

- Estimating the mass and volume of waste to be generated, as well as the type and quantity of containers required.
- Hiring authorized companies for the management of waste.
- Purchase of bulk materials to reduce packaging and generate less waste.
- Hiring suppliers who manage the waste of their products and/or having some type of environmental certificate.
- Maximum use of materials and products, using mixing systems with mechanical dosing.
- Managing the reception and collection on the work of the products according to the needs of use in each moment to avoid the generation of waste of damaged/expired material.
- Observing the manufacturer's instructions regarding the transportation, collection and commissioning of materials to avoid breakage.

- Establishing a container for each type of CDW and respect its use.
- Using small containers in work areas.
- Reusing materials within the work. Detecting those items that can support reusable materials from the work itself.
- Training and informing all personnel of the correct labeling of containers and their responsibilities in the field of waste.
- Use of machinery for the management of CDW (crushers and compactors).
- Recording the date of withdrawal, quantities and characteristics of the waste.
- Creating documents that collect instructions regarding the different processes that generate waste to ensure that each task is well defined.
- Control and follow up.
- Commitment to apply Best Practices as a complementary criterion for the award of the work
- None
- Others, please specify:

C). Please rate the following best practice measures regarding their viability of implementation in a building rehabilitation project: (Please when answering consider viable and economic aspects)

Best Practice measure	Rate				
	1- not at all viable	2- Slightly viable	3- Somewhat/moderate viable	4- quite viable	5- very viable
Remove decorative elements.					
Dismantling neatly carpentry, sanitary equipment					
Uninstall heating networks, plumbing, electricity, etc.					
Dismantling exterior elements, false ceilings and recoverable coatings.					
Dismantling roofs, covers and interior divisions.					
Demolishing the structure in a controlled manner.					
Estimating the mass and volume of waste to be generated, as well as the type and quantity of containers required.					
Hiring authorized companies for the management of waste.					
Purchase of bulk materials to reduce packaging and generate less waste.					
Hiring suppliers who manage the waste of their products and/or having some type of environmental certificate.					
Maximum use of materials and products, using mixing systems with mechanical dosing.					
Managing the reception and collection on the work of the products according to the needs of use in each moment to avoid the generation of waste of damaged/expired material.					
Observing the manufacturer's instructions regarding the transportation, collection and commissioning of materials to avoid breakage.					
Establishing a container for each type of CDW and respect its use.					
Using small containers in work areas.					
Reusing materials within the work. Detecting those items that can support reusable materials from the work itself.					
Training and informing all personnel of the correct labeling of containers and their responsibilities in the field of waste.					
Use of machinery for the management of CDW (crushers and compactors).					
Recording the date of withdrawal, quantities and characteristics of the waste.					
Creating documents that collect instructions regarding the different processes that generate waste to ensure that each					

Best Practice measure	Rate				
	1- not at all viable	2- Slightly viable	3- Somewhat/moderate viable	4- quite viable	5- very viable
task is well defined.					
Control and follow up.					
Commitment to apply Best Practices as a complementary criterion for the award of the work					

D). Please rate the following best practice measures regarding their effectiveness to minimize or correctly manage CDW in a building rehabilitation project:

Best Practice measure	Rate				
	1- not at all effective	2- Slightly effective	3- Somewhat/moderate effective	4- quite effective	5- very effective
Remove decorative elements.					
Dismantling neatly carpentry, sanitary equipment					
Uninstall heating networks, plumbing, electricity, etc.					
Dismantling exterior elements, false ceilings and recoverable coatings.					
Dismantling roofs, covers and interior divisions.					
Demolishing the structure in a controlled manner.					
Estimating the mass and volume of waste to be generated, as well as the type and quantity of containers required.					
Hiring authorized companies for the management of waste.					
Purchase of bulk materials to reduce packaging and generate less waste.					
Hiring suppliers who manage the waste of their products and/or having some type of environmental certificate.					
Maximum use of materials and products, using mixing systems with mechanical dosing.					
Managing the reception and collection on the work of the products according to the needs of use in each moment to avoid the generation of waste of damaged/expired material.					
Observing the manufacturer's instructions regarding the transportation, collection and commissioning of materials to avoid breakage.					
Establishing a container for each type of CDW and respect its use.					
Using small containers in work areas.					
Reusing materials within the work. Detecting those items that can support reusable materials from the work itself.					
Training and informing all personnel of the correct labeling of containers and their responsibilities in the field of waste.					
Use of machinery for the management of CDW (crushers and compactors).					
Recording the date of withdrawal, quantities and characteristics of the waste.					
Creating documents that collect instructions regarding the different processes that generate waste to ensure that each task is well defined.					
Control and follow up.					
Commitment to apply Best Practices as a complementary criterion for the award of the work					

### **3. FINAL COMMENTS**

A). If you consider any other best practice not described above, please indicate it below and rate it according to its viability and effectiveness in a scale between 1 to 5, where 5 denotes a very effective or viable measure and 1 means insignificant or not viable (Please explain briefly)

B). Please indicate below any other comment or suggestion:

**THANK YOU!**