

Example 6.1b: Building waste calculator

In step 1 enter project details and then follow these instructions.

Enter details of existing building (if applicable)

Enter details of proposed building. Use the "Mixed use" option for buildings with more than one use

Enter waste generation details for the building use. Default values can be overridden if required

Step 2 - Construction and Demolition Waste Estimation

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Existing Building Details

Are there any existing buildings in the plot? ☐ No

Existing building	Unit	Value	Override default demolition waste values?
Existing building	m ²	10,000	Yes
Construction waste generated for new office in m ² per 100 m ² of building		12.5	
Demolition waste generated for new office in m ³ per 100 m ² of building		12.5	

Please write the source reference of this figure: Data from previous projects

Proposed Building Details

Proposed building	Unit	Value	Override default construction waste values for Hotel?
Building use	n/a	Hotel	Yes
Total Gross Floor Area	sqm	10,000	
Construction waste generated for new Hotel in m ³ per 100 m ² of building		12.5	

Please write the source reference of this figure: Data from previous projects

Is mixed use building, how many different uses will there be? 2

Building use	Unit	Value	Override default construction waste values for Office?
Building use 1	n/a	Office	Yes
Gross Floor Area of building use 1	sqm	5,000	
Construction waste generated for new Office in m ³ per 100 m ² of building		12.5	
Building use 2	n/a	Residential	Yes
Gross Floor Area of building use 2	sqm	5,000	
Construction waste generated for new Residential in m ³ per 100 m ² of building		12.5	
Building use 3	n/a	School	Yes
Gross Floor Area of building use 3	sqm	5,000	
Construction waste generated for new School in m ³ per 100 m ² of building		12.5	
Building use 4	n/a	School	Yes
Gross Floor Area of building use 4	sqm	5,000	
Construction waste generated for new School in m ³ per 100 m ² of building		12.5	
Building use 5	n/a	Hotel	Yes
Gross Floor Area of building use 5	sqm	5,000	
Construction waste generated for new Hotel in m ³ per 100 m ² of building		12.5	

Please write the source reference of this figure: Data from previous projects

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Step 4 - Salvage/Recycling Capture Rates

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Construction and Demolition waste recycling and salvage rates

Salvage and recycling of Construction and Demolition waste

Non-technical factors

Will a construction and demolition waste management plan be written? (Required SM-R2) ☐ Yes

Will waste education be provided to construction contractors? ☐ Yes

Will waste be adequately segregated and temporarily stored on-site during construction? ☐ No

Will there be a person responsible of C&D waste management? ☐ No

Technical factors

What percentage of material from existing building will be reused in the new one? 0%

Will construction waste be segregated in a recycling plant? ☐ Yes

Which plants? Municipal C&D plant Al Dhafra

Will demolition waste be segregated in a recycling plant? ☐ No

Other plants:

Override automatic values and enter customized capture rates? ☐ No

Operational waste diversion from landfill rates

General

Will an operation waste management plan be written? (Required SM-R3) ☐ Yes

Will adequate access be provided for refuse collection vehicles? (Required SM-R3) ☐ Yes

Will landscape waste be collected? ☐ No

Will landscape waste be treated on-site within 50m of other waste and recycling storage areas? ☐ No

Non-residential

Non-technical factors

Will waste education be provided to staff, guests, students, etc., e.g. leaflets? ☐ No

Will non-residential non-organic waste be stored and collected as separate streams? (Required SM-R3) ☐ Yes

Will organic waste from all building use be stored and collected separately? ☐ No

Will there be a facilities manager responsible for waste in the building? ☐ No

Technical factors

Will non-organic recyclable waste be segregated manually on-site or mechanically in a recycling plant? ☐ No

Will organic waste be composted, and if so will it be done on-site or off-site? ☐ No

Household

Non-technical factors

Will waste education be provided to residents, e.g. leaflets? ☐ No

Will non-organic residential waste be stored and collected as separate streams? (Required SM-R3) ☐ No

Will organic residential waste be stored and collected separately? ☐ No

Will the distance to the nearest waste storage point be less than 50m for residents? (Required SM-R3) ☐ No

Technical factors

Will non-organic recyclable waste be segregated manually on-site or mechanically in a recycling plant? ☐ No

Will organic waste be composted, and if so will it be done on-site or off-site? ☐ No

Override automatic values and enter customized capture rates...

For office? ☐ No

Capture rates for office

Category	Technical	Non-technical	Overall
Office	0%	0%	0%
Residential	0%	0%	0%
School	0%	0%	0%
Hotel	0%	0%	0%

Please write the source reference for the value data

Enter operational waste management procedures

Default capture rates can be overridden if required

Enter construction and demolition waste management procedures.