

CONSTRUCTION21 - CASE STUDY STRUCTURE

		CASE STUDY STRUCTURE	Data format	Unit
N°	* mandatory	Name of the field		
1	*	Building name	Free text by user	
2	*	Project description	Free text by user	
3	*	Building type	List and sublist	
4		Number of functional units	Figure by user	dwelling, work station, bed, pupil/student
5	*	Project type	List	
6	*	Construction year	Figure by user	year (4 digits)
7	*	Address 1 - street	Free text by user	
8	*	Address 2- postal code	Figure by user	
9	*	Address 3 - city	Free text by user	
10	*	Address 4 - country	List	
		Description		
11		Climate zone	list	
12	*	Net Floor Area	Figure by user	m ²
13	*	Area type	List (country / method)	
14	*	Construction Cost	Figure by user	€
15	*	Cost/m2	Calculation	€ / m ²
16	*	Cost/functional unit	Calculation	€/FU
17	*	Energy Performance Certificate	List (country) and sublist (level)	
18		Certification Scheme	List (system) and sublist (level)	
19		Pop up describing the label in detail	Automatic	
20		Label visibility	Automatic	
21		See more details on this project	saisie url	
22	*	Data reliability	List	
		Stakeholders	Max 10 (au moins 1 obligatoire)	
23		Function	list	
24		Name	free text by user	
25		Contact	free text by user	
26		website	url by user	
27		Contracting method	List	
28		Other information regarding stakeholders	Uploaded file	
29		Owners: environmental philosophy or approach of sustainability	Free text by user	
30		Other element of testimony	Uploaded file	
31	*	Architectural description	Free text by user	
32		Other elements of architectural description	Uploaded file	
33		If you had to do it again?	Free text by user	
34		Building users opinion	Free text by user	
		Energy		
		Energy consumption		
35	*	Primary energy need	Figure by user	kWh PE / m ² / Year
40	*	Primary energy need for standard building	Figure by user	kWh PE / m ² / Year
36	*	Calculation method (country related)	List (country / method)	
41		CEEB Cost of Energy Efficiency in Building = ((40)-(35))/(14)	Calculation	kWhPE/year /k€
39		Consumption of Final Energy In Use (all consumption)	Figure by user	kWh PE / m ² / Year
42		Breakdown for energy consumption	Free text by user	
43		More information on real consumptions and performances	Free text by user	
37	*	Initial consumption	Figure by user	kWh PE / m ² / Year
38		Consumption gain	Calculation	kWh PE / m ² / Year
		Envelope performance		
44		U-Value	Figure by user	W.m ⁻² .K ⁻¹
45		Envelope additional information	Free text by user	
46		Building Compactness Coefficient	Figure by user	
48		Air Tightness Value	Figure by user	Unit of the indicator
47		Indicator used for air tightness value	List	(I4) m ³ /H.m ² n50 (Vol/H)Q4?
49		Proof or testimonies energy/air tightness	Uploaded files (max 5)	
		Renewables and systems		
		Systems		
50	*	Heating system	List	
121	*	Hot water	List	
51	*	Cooling system	List	
52	*	Ventilation system	List	
53		Other information regarding HVAC systems	Uploaded files (max 5)	
54	*	Renewable systems	List and sublist	
55		Yearly production of renewable (in % of building energy needs)	Figure by user	%
56		Other information on renewable energy	Uploaded files (max 3)	

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		Smart Building		
58		Explanation of Building Management System (BMS)	Free text by user	
59		Other information on BMS	Uploaded file (1)	
60		SMARTGRID	Free text by user	
61		Other information on SMARTGRID	Uploaded file (1)	
		Environment		
		GHG emissions		
62		GHG emissions at use stage	Figure by user	KgCO ₂ /m ² /year
63		Methodology used	Free text by user	
64		GHG before use (construction and product)	Figure by user	KgCO ₂ /m ²
67		Building lifetime	Figure by user	Years
65		Number of in use years corresponding to "before use" GHG emissions = ((64)/(62))	Calculation	Years
66		Total GHG Emissions Cradle to Grave	Figure by user	KgCO ₂ /m ²
68		Comments on GHG calculations	Free Text by user	
69		Any information on GHG calculations	Uploaded file (1)	
		Life Cycle Analysis		
70		LCA	Picture File by user	
71		Explanation for LCA picture	Free text by user	
72		Any information on LCA calculations	Uploaded file (1)	
73		Construction material impact on GHG emissions	Figure by user	KgCO ₂
74		Construction material impact on non renewable primary energy consumption	Figure by user	kWhEP
75		Eco-design material	Free text by user	
76		Any data on eco-designed material	Uploaded files (max 3)	
		Water & Indoor air quality		
78		Annual consumption from water network	Figure by user	m ³ /year
79		Annual consumption of grey water	Figure by user	m ³ /year
80		Annual consumption of harvested rainwater	Figure by user	m ³ /year
81		Water Self Sufficiency Index = ((79)+(80))/(78)+(79)+(80))	Calculation	%
82		Water Consumption per area ratio ((78)/(12))	Calculation	m ³ /m ²
83		Water Consumption per Functional Unit ((78)/(4))	Calculation	m ³ /FU depending on building type
84		Any information on water system and calculations	free text by user	
85		Indoor Air quality	free text by user	
		Innovation (5 max)		
86		Innovation name	Free Text by user	
113		Innovation picture		
87		Producer of the innovative system	Free Text by user	
114		Producer contact		
115		Producer website		
88		Product category	List	
89		Description of the innovative system	Free text by user	
90		Comments on acceptance of this innovation	Free text by user	
91		Any data on innovation	Uploaded files (max 3)	
		Costs		
		Construction and exploitation costs		
92		Global cost (before use + use + end of life stage)	Figure by user	€
93		Reference global cost	Figure by user	€/m2
94		Renewable energy systems cost	Figure by user	€
95		P3 Global cost /functional unit	Calculation	€/FU
96		P4 Reference global cost /functional unit	Calculation	€/FU
		Energy bill		
97		Forecasted annual energy bill (all energies)	Figure by user	€
98		Calculation of yearly cost of energy / area ((97)/(12))	Calculation	€ / m ²
100		Calculation of yearly cost of energy / functional Unit ((97)/(4))	Calculation	€ / FU
		Urban environment		
101		Urban environment	Free text	
102		Elements of Urban Planning	Uploaded file (1)	
103		Land plot area	Figure by user	m ²
104		Built-up area	Figure by user	%
105		Green space in common use	Figure by user	m ²
106		Parking	Free text	
		Photos		
111		Pictures of the building	Uploaded pictures (1mandatory/max 10)	